



# PetroShare Corp

Project: ADAMS COUNTY, CO  
Site: S19-T1S-R65W  
Well: CONNER 19-18-3CDH  
Wellbore: OH  
Design: PLAN #1

PROJECT DETAILS: ADAMS COUNTY, CO  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone



Azimuths to Grid North  
True North: -0.51°  
Magnetic North: 7.50°  
  
Magnetic Field  
Strength: 51671.1nT  
Dip Angle: 66.20°  
Date: 12/31/2020  
Model: HDGM2020\_FILE

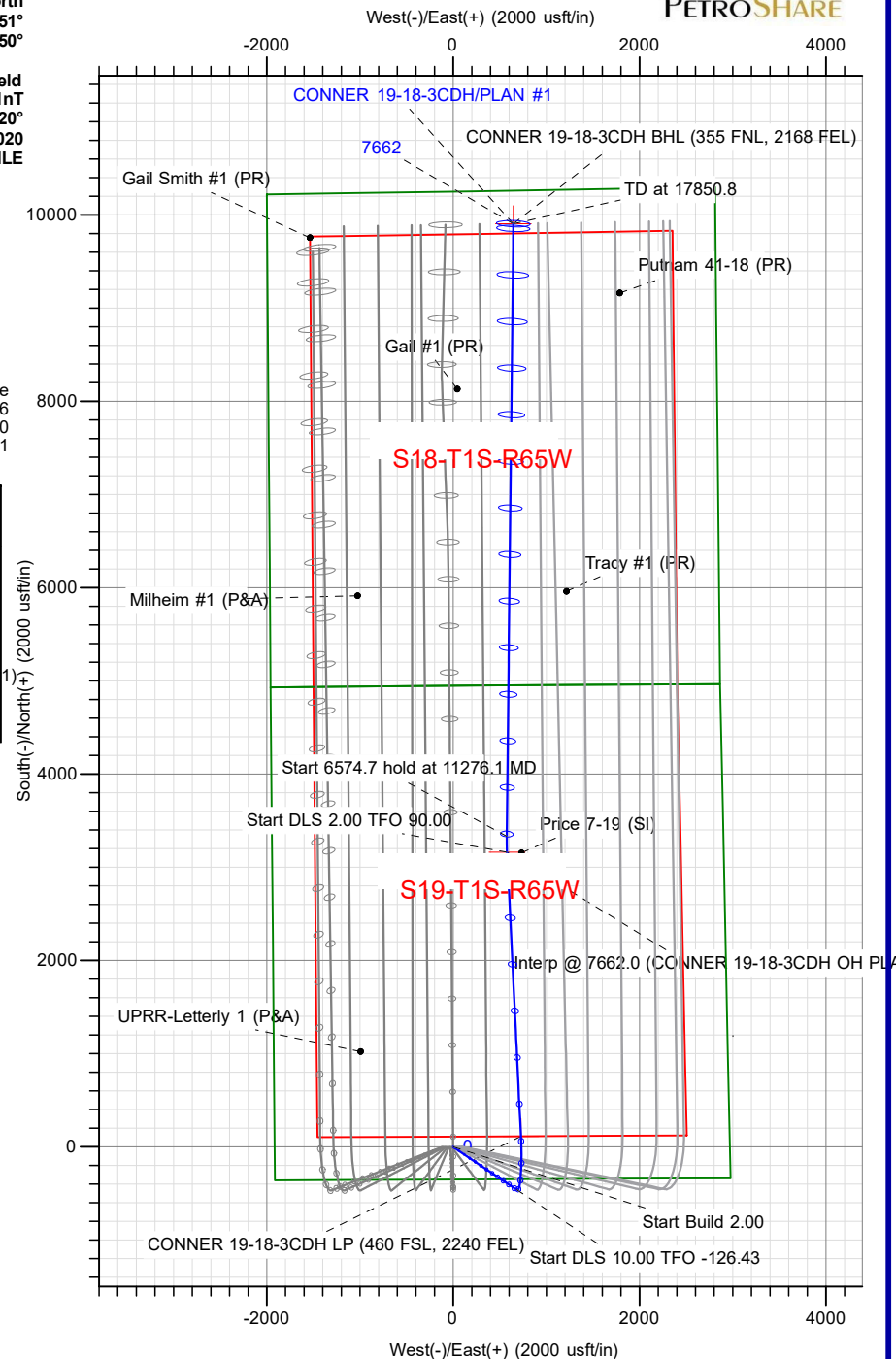
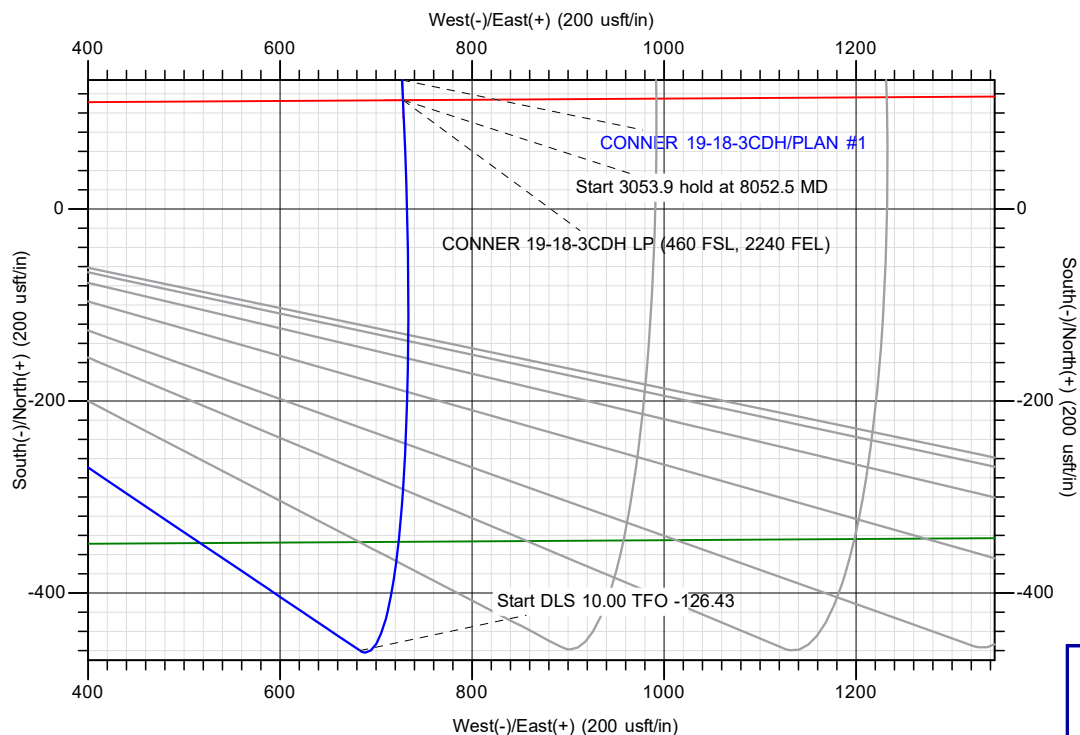


## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CONNER 19-18-3CDH BHL (355 FNL, 2168 FEL)	7662.0	9907.9	647.2	1233462.91	3222777.03	39.971498	-104.705126
CONNER 19-18-3CDH LP (460 FSL, 2240 FEL)	7662.0	113.7	728.1	1223668.68	3222858.01	39.944610	-104.705150
Interp @ 7662.0 (CONNER 19-18-3CDH OH PLAN #1)	7662.0	3164.0	580.0	1226718.98	3222709.87	39.952987	-104.705581

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1615.9	8.32	123.94	1614.4	-16.8	25.0	2.00	123.94	-15.2	
4	7102.9	8.32	123.94	7043.7	-460.0	683.5	0.00	0.00	-414.5	
5	8052.5	90.00	357.22	7662.0	113.7	728.1	10.00	-126.43	160.9	CONNER 19-18-3CDH LP (460 FSL, 2240 FEL)
6	11106.4	90.00	357.22	7662.0	3164.0	580.0	0.00	0.00	3195.0	Interp @ 7662.0 (CONNER 19-18-3CDH OH PLAN #1)
7	11276.1	90.00	0.61	7662.0	3333.6	576.8	2.00	90.00	3364.1	
8	17850.8	90.00	0.61	7662.0	9907.9	647.2	0.00	0.00	9929.0	CONNER 19-18-3CDH BHL (355 FNL, 2168 FEL)



**TOTAL DIRECTIONAL SERVICES LLC**  
671 Academy Ct, Windsor, CO 80550  
Phone: (970) 460-9402

Plan: PLAN #1 (CONNER 19-18-3CDH/OH)  
S19-T1S-R65W  
Created By: Lance Roybal  
Date: 17:43, March 12 2021  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_



# PetroShare Corp

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Design: PLAN #1



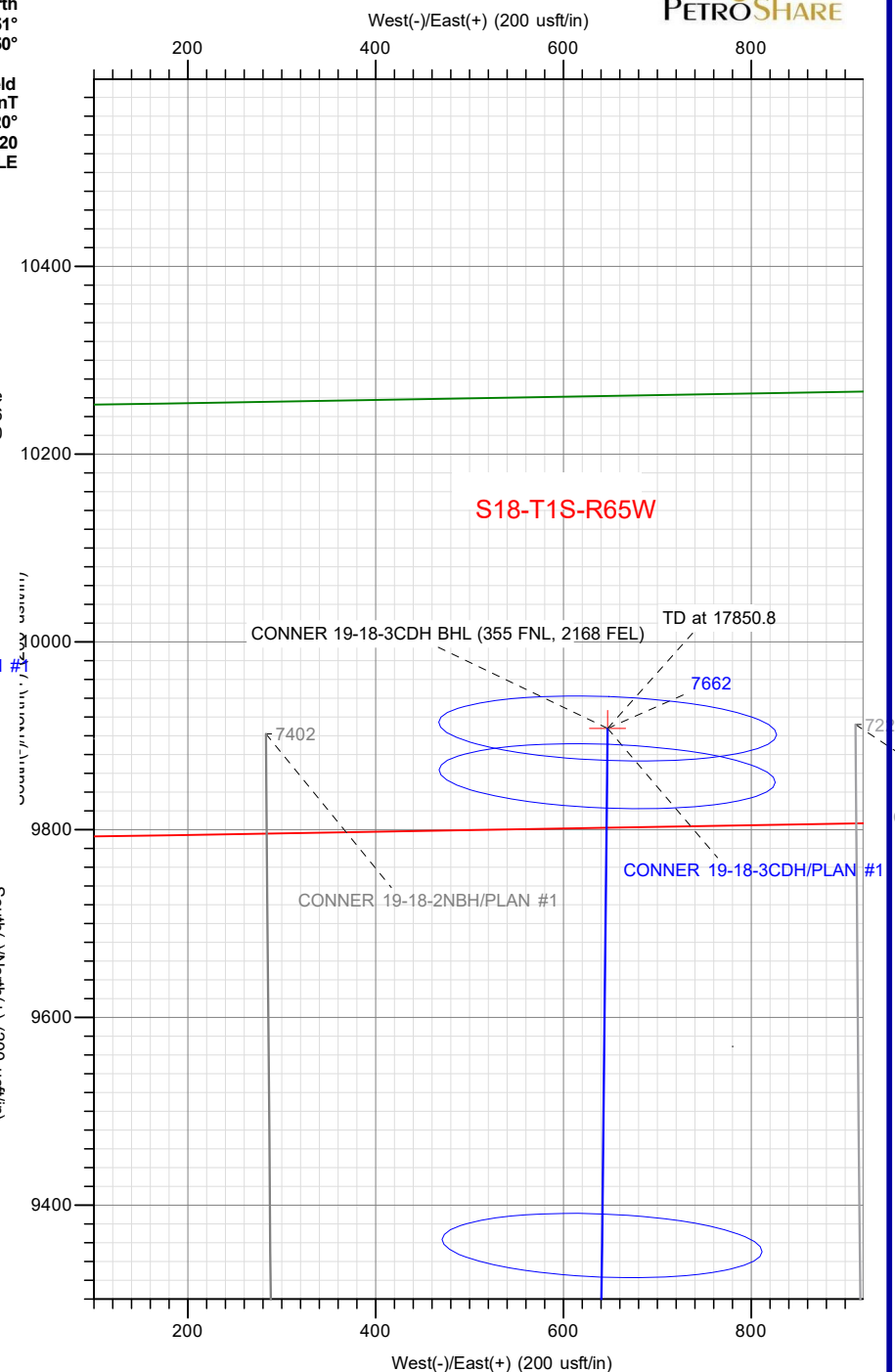
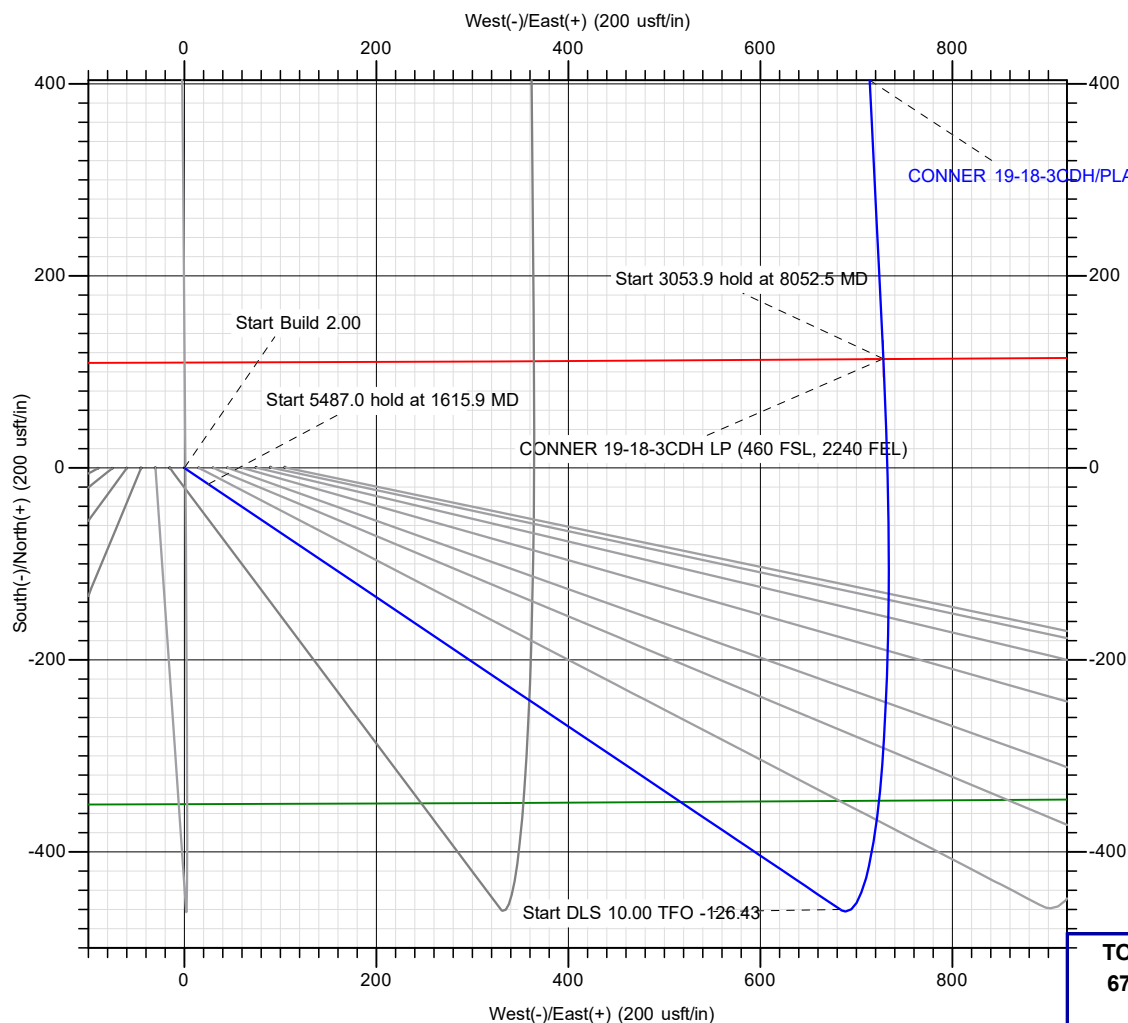
Azimuths to Grid North  
True North:  $-0.51^\circ$   
Magnetic North:  $7.50^\circ$   
  
Magnetic Field  
Strength: 51671.1nT  
Dip Angle:  $66.20^\circ$   
Date: 12/31/2020  
Model: HDGM2020\_FILE



PROJECT DETAILS: ADAMS COUNTY, CO  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone

## DESIGN TARGET DETAILS

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671 Academy Ct, Windsor, CO 80550  
Phone: (970) 460-9402

Plan: PLAN #1 (CONNER 19-18-3CDH/OH)  
S19-T1S-R65W  
Created By: Lance Roybal  
Date: 17:46, March 12 2021  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_



## **PetroShare Corp**

**ADAMS COUNTY, CO**

**S19-T1S-R65W**

**CONNER 19-18-3CDH**

**OH**

**Plan: PLAN #1**

## **Standard Planning Report**

**12 March, 2021**



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Company:</b>	PetroShare Corp	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Project:</b>	ADAMS COUNTY, CO	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site:</b>	S19-T1S-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	ADAMS COUNTY, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		S19-T1S-R65W			
Site Position:		Northing:	1,223,554.35 usft	Latitude:	39.944317
From:	Map	Easting:	3,222,009.87 usft	Longitude:	-104.708179
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.51

Well	CONNER 19-18-3CDH					
Well Position	+N/-S	0.7 usft	Northing:	1,223,555.02 usft	Latitude:	39.944316
	+E/-W	120.0 usft	Easting:	3,222,129.87 usft	Longitude:	-104.707751
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,142.0 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2020_FILE	12/31/2020	8.02	66.20	51,671.10000000

<b>Design</b>	PLAN #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	3.74

<b>Plan Survey Tool Program</b>	<b>Date</b>	3/12/2021		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	17,850.8	PLAN #1 (OH)	MWD
				OWSG MWD - Standard

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,615.9	8.32	123.94	1,614.4	-16.8	25.0	2.00	2.00	0.00	123.94	
7,102.9	8.32	123.94	7,043.7	-460.0	683.5	0.00	0.00	0.00	0.00	
8,052.5	90.00	357.22	7,662.0	113.7	728.1	10.00	8.60	-13.34	-126.43	CONNER 19-18-3CD
11,106.4	90.00	357.22	7,662.0	3,164.0	580.0	0.00	0.00	0.00	0.00	Interp @ 7662.0 (CO
11,276.1	90.00	0.61	7,662.0	3,333.6	576.8	2.00	0.00	2.00	90.00	
17,850.8	90.00	0.61	7,662.0	9,907.9	647.2	0.00	0.00	0.00	0.00	CONNER 19-18-3CD

<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Company:</b>	PetroShare Corp	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Project:</b>	ADAMS COUNTY, CO	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site:</b>	S19-T1S-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	123.94	1,300.0	-1.0	1.4	-0.9	2.00	2.00	0.00
1,400.0	4.00	123.94	1,399.8	-3.9	5.8	-3.5	2.00	2.00	0.00
1,500.0	6.00	123.94	1,499.5	-8.8	13.0	-7.9	2.00	2.00	0.00
1,600.0	8.00	123.94	1,598.7	-15.6	23.1	-14.0	2.00	2.00	0.00
1,615.9	8.32	123.94	1,614.4	-16.8	25.0	-15.2	2.00	2.00	0.00
1,700.0	8.32	123.94	1,697.7	-23.6	35.1	-21.3	0.00	0.00	0.00
1,800.0	8.32	123.94	1,796.6	-31.7	47.1	-28.6	0.00	0.00	0.00
1,900.0	8.32	123.94	1,895.6	-39.8	59.1	-35.8	0.00	0.00	0.00
2,000.0	8.32	123.94	1,994.5	-47.8	71.1	-43.1	0.00	0.00	0.00
2,100.0	8.32	123.94	2,093.4	-55.9	83.1	-50.4	0.00	0.00	0.00
2,200.0	8.32	123.94	2,192.4	-64.0	95.1	-57.7	0.00	0.00	0.00
2,300.0	8.32	123.94	2,291.3	-72.1	107.1	-64.9	0.00	0.00	0.00
2,400.0	8.32	123.94	2,390.3	-80.2	119.1	-72.2	0.00	0.00	0.00
2,500.0	8.32	123.94	2,489.2	-88.2	131.1	-79.5	0.00	0.00	0.00
2,600.0	8.32	123.94	2,588.2	-96.3	143.1	-86.8	0.00	0.00	0.00
2,700.0	8.32	123.94	2,687.1	-104.4	155.1	-94.1	0.00	0.00	0.00
2,800.0	8.32	123.94	2,786.1	-112.5	167.1	-101.3	0.00	0.00	0.00
2,900.0	8.32	123.94	2,885.0	-120.5	179.1	-108.6	0.00	0.00	0.00
3,000.0	8.32	123.94	2,984.0	-128.6	191.1	-115.9	0.00	0.00	0.00
3,100.0	8.32	123.94	3,082.9	-136.7	203.1	-123.2	0.00	0.00	0.00
3,200.0	8.32	123.94	3,181.9	-144.8	215.1	-130.4	0.00	0.00	0.00
3,300.0	8.32	123.94	3,280.8	-152.8	227.1	-137.7	0.00	0.00	0.00
3,400.0	8.32	123.94	3,379.8	-160.9	239.1	-145.0	0.00	0.00	0.00
3,500.0	8.32	123.94	3,478.7	-169.0	251.1	-152.3	0.00	0.00	0.00
3,600.0	8.32	123.94	3,577.7	-177.1	263.1	-159.6	0.00	0.00	0.00
3,700.0	8.32	123.94	3,676.6	-185.2	275.1	-166.8	0.00	0.00	0.00
3,800.0	8.32	123.94	3,775.6	-193.2	287.1	-174.1	0.00	0.00	0.00
3,900.0	8.32	123.94	3,874.5	-201.3	299.1	-181.4	0.00	0.00	0.00
4,000.0	8.32	123.94	3,973.5	-209.4	311.1	-188.7	0.00	0.00	0.00
4,100.0	8.32	123.94	4,072.4	-217.5	323.1	-195.9	0.00	0.00	0.00
4,200.0	8.32	123.94	4,171.4	-225.5	335.1	-203.2	0.00	0.00	0.00
4,300.0	8.32	123.94	4,270.3	-233.6	347.1	-210.5	0.00	0.00	0.00
4,400.0	8.32	123.94	4,369.3	-241.7	359.1	-217.8	0.00	0.00	0.00
4,500.0	8.32	123.94	4,468.2	-249.8	371.1	-225.0	0.00	0.00	0.00
4,600.0	8.32	123.94	4,567.2	-257.8	383.1	-232.3	0.00	0.00	0.00
4,700.0	8.32	123.94	4,666.1	-265.9	395.1	-239.6	0.00	0.00	0.00
4,800.0	8.32	123.94	4,765.1	-274.0	407.1	-246.9	0.00	0.00	0.00
4,900.0	8.32	123.94	4,864.0	-282.1	419.1	-254.2	0.00	0.00	0.00
5,000.0	8.32	123.94	4,962.9	-290.1	431.1	-261.4	0.00	0.00	0.00
5,100.0	8.32	123.94	5,061.9	-298.2	443.1	-268.7	0.00	0.00	0.00
5,200.0	8.32	123.94	5,160.8	-306.3	455.1	-276.0	0.00	0.00	0.00

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<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	8.32	123.94	5,259.8	-314.4	467.1	-283.3	0.00	0.00	0.00
5,400.0	8.32	123.94	5,358.7	-322.5	479.1	-290.5	0.00	0.00	0.00
5,500.0	8.32	123.94	5,457.7	-330.5	491.1	-297.8	0.00	0.00	0.00
5,600.0	8.32	123.94	5,556.6	-338.6	503.1	-305.1	0.00	0.00	0.00
5,700.0	8.32	123.94	5,655.6	-346.7	515.1	-312.4	0.00	0.00	0.00
5,800.0	8.32	123.94	5,754.5	-354.8	527.1	-319.7	0.00	0.00	0.00
5,900.0	8.32	123.94	5,853.5	-362.8	539.1	-326.9	0.00	0.00	0.00
6,000.0	8.32	123.94	5,952.4	-370.9	551.1	-334.2	0.00	0.00	0.00
6,100.0	8.32	123.94	6,051.4	-379.0	563.1	-341.5	0.00	0.00	0.00
6,200.0	8.32	123.94	6,150.3	-387.1	575.1	-348.8	0.00	0.00	0.00
6,300.0	8.32	123.94	6,249.3	-395.1	587.1	-356.0	0.00	0.00	0.00
6,400.0	8.32	123.94	6,348.2	-403.2	599.1	-363.3	0.00	0.00	0.00
6,500.0	8.32	123.94	6,447.2	-411.3	611.1	-370.6	0.00	0.00	0.00
6,600.0	8.32	123.94	6,546.1	-419.4	623.1	-377.9	0.00	0.00	0.00
6,700.0	8.32	123.94	6,645.1	-427.5	635.1	-385.1	0.00	0.00	0.00
6,800.0	8.32	123.94	6,744.0	-435.5	647.1	-392.4	0.00	0.00	0.00
6,900.0	8.32	123.94	6,843.0	-443.6	659.1	-399.7	0.00	0.00	0.00
7,000.0	8.32	123.94	6,941.9	-451.7	671.1	-407.0	0.00	0.00	0.00
7,100.0	8.32	123.94	7,040.9	-459.8	683.1	-414.3	0.00	0.00	0.00
7,102.9	8.32	123.94	7,043.7	-460.0	683.5	-414.5	0.00	0.00	0.00
7,200.0	8.19	51.70	7,140.1	-459.6	694.7	-413.4	10.00	-0.13	-74.39
7,300.0	16.16	21.07	7,237.8	-442.2	705.4	-395.3	10.00	7.97	-30.63
7,400.0	25.58	11.39	7,331.2	-407.9	714.7	-360.5	10.00	9.42	-9.68
7,500.0	35.31	6.74	7,417.3	-357.9	722.3	-310.1	10.00	9.73	-4.64
7,600.0	45.14	3.92	7,493.6	-293.7	728.2	-245.6	10.00	9.83	-2.83
7,700.0	55.02	1.92	7,557.7	-217.2	732.0	-169.1	10.00	9.88	-1.99
7,800.0	64.93	0.36	7,607.6	-130.8	733.6	-82.7	10.00	9.91	-1.56
7,900.0	74.86	359.04	7,642.0	-37.0	733.1	10.9	10.00	9.92	-1.32
8,000.0	84.79	357.83	7,659.6	61.3	730.4	108.8	10.00	9.93	-1.20
8,052.5	90.00	357.22	7,662.0	113.7	728.1	160.9	10.00	9.93	-1.17
CONNER 19-18-3CDH LP (460 FSL, 2240 FEL)									
8,100.0	90.00	357.22	7,662.0	161.1	725.8	208.1	0.00	0.00	0.00
8,200.0	90.00	357.22	7,662.0	261.0	721.0	307.4	0.00	0.00	0.00
8,300.0	90.00	357.22	7,662.0	360.9	716.1	406.8	0.00	0.00	0.00
8,400.0	90.00	357.22	7,662.0	460.7	711.3	506.1	0.00	0.00	0.00
8,500.0	90.00	357.22	7,662.0	560.6	706.4	605.5	0.00	0.00	0.00
8,600.0	90.00	357.22	7,662.0	660.5	701.6	704.8	0.00	0.00	0.00
8,700.0	90.00	357.22	7,662.0	760.4	696.7	804.2	0.00	0.00	0.00
8,800.0	90.00	357.22	7,662.0	860.3	691.9	903.5	0.00	0.00	0.00
8,900.0	90.00	357.22	7,662.0	960.2	687.0	1,002.9	0.00	0.00	0.00
9,000.0	90.00	357.22	7,662.0	1,060.0	682.2	1,102.3	0.00	0.00	0.00
9,100.0	90.00	357.22	7,662.0	1,159.9	677.3	1,201.6	0.00	0.00	0.00
9,200.0	90.00	357.22	7,662.0	1,259.8	672.5	1,301.0	0.00	0.00	0.00
9,300.0	90.00	357.22	7,662.0	1,359.7	667.6	1,400.3	0.00	0.00	0.00
9,400.0	90.00	357.22	7,662.0	1,459.6	662.8	1,499.7	0.00	0.00	0.00
9,500.0	90.00	357.22	7,662.0	1,559.5	657.9	1,599.0	0.00	0.00	0.00
9,600.0	90.00	357.22	7,662.0	1,659.3	653.1	1,698.4	0.00	0.00	0.00
9,700.0	90.00	357.22	7,662.0	1,759.2	648.2	1,797.7	0.00	0.00	0.00
9,800.0	90.00	357.22	7,662.0	1,859.1	643.4	1,897.1	0.00	0.00	0.00
9,900.0	90.00	357.22	7,662.0	1,959.0	638.5	1,996.4	0.00	0.00	0.00
10,000.0	90.00	357.22	7,662.0	2,058.9	633.7	2,095.8	0.00	0.00	0.00
10,100.0	90.00	357.22	7,662.0	2,158.7	628.8	2,195.1	0.00	0.00	0.00
10,200.0	90.00	357.22	7,662.0	2,258.6	624.0	2,294.5	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Company:</b>	PetroShare Corp	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Project:</b>	ADAMS COUNTY, CO	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site:</b>	S19-T1S-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	90.00	357.22	7,662.0	2,358.5	619.1	2,393.8	0.00	0.00	0.00
10,400.0	90.00	357.22	7,662.0	2,458.4	614.3	2,493.2	0.00	0.00	0.00
10,500.0	90.00	357.22	7,662.0	2,558.3	609.4	2,592.6	0.00	0.00	0.00
10,600.0	90.00	357.22	7,662.0	2,658.2	604.6	2,691.9	0.00	0.00	0.00
10,700.0	90.00	357.22	7,662.0	2,758.0	599.7	2,791.3	0.00	0.00	0.00
10,800.0	90.00	357.22	7,662.0	2,857.9	594.9	2,890.6	0.00	0.00	0.00
10,900.0	90.00	357.22	7,662.0	2,957.8	590.0	2,990.0	0.00	0.00	0.00
11,000.0	90.00	357.22	7,662.0	3,057.7	585.2	3,089.3	0.00	0.00	0.00
11,100.0	90.00	357.22	7,662.0	3,157.6	580.3	3,188.7	0.00	0.00	0.00
11,106.4	90.00	357.22	7,662.0	3,164.0	580.0	3,195.0	0.00	0.00	0.00
Interp @ 7662.0 (CONNER 19-18-3CDH OH PLAN #1)									
11,200.0	90.00	359.09	7,662.0	3,257.5	577.0	3,288.2	2.00	0.00	2.00
11,276.1	90.00	0.61	7,662.0	3,333.6	576.8	3,364.1	2.00	0.00	2.00
11,300.0	90.00	0.61	7,662.0	3,357.5	577.0	3,388.0	0.00	0.00	0.00
11,400.0	90.00	0.61	7,662.0	3,457.5	578.1	3,487.8	0.00	0.00	0.00
11,500.0	90.00	0.61	7,662.0	3,557.5	579.2	3,587.7	0.00	0.00	0.00
11,600.0	90.00	0.61	7,662.0	3,657.5	580.3	3,687.5	0.00	0.00	0.00
11,700.0	90.00	0.61	7,662.0	3,757.5	581.3	3,787.4	0.00	0.00	0.00
11,800.0	90.00	0.61	7,662.0	3,857.5	582.4	3,887.2	0.00	0.00	0.00
11,900.0	90.00	0.61	7,662.0	3,957.5	583.5	3,987.1	0.00	0.00	0.00
12,000.0	90.00	0.61	7,662.0	4,057.5	584.5	4,086.9	0.00	0.00	0.00
12,100.0	90.00	0.61	7,662.0	4,157.5	585.6	4,186.8	0.00	0.00	0.00
12,200.0	90.00	0.61	7,662.0	4,257.5	586.7	4,286.6	0.00	0.00	0.00
12,300.0	90.00	0.61	7,662.0	4,357.4	587.8	4,386.5	0.00	0.00	0.00
12,400.0	90.00	0.61	7,662.0	4,457.4	588.8	4,486.3	0.00	0.00	0.00
12,500.0	90.00	0.61	7,662.0	4,557.4	589.9	4,586.2	0.00	0.00	0.00
12,600.0	90.00	0.61	7,662.0	4,657.4	591.0	4,686.0	0.00	0.00	0.00
12,700.0	90.00	0.61	7,662.0	4,757.4	592.0	4,785.9	0.00	0.00	0.00
12,800.0	90.00	0.61	7,662.0	4,857.4	593.1	4,885.7	0.00	0.00	0.00
12,900.0	90.00	0.61	7,662.0	4,957.4	594.2	4,985.6	0.00	0.00	0.00
13,000.0	90.00	0.61	7,662.0	5,057.4	595.2	5,085.5	0.00	0.00	0.00
13,100.0	90.00	0.61	7,662.0	5,157.4	596.3	5,185.3	0.00	0.00	0.00
13,200.0	90.00	0.61	7,662.0	5,257.4	597.4	5,285.2	0.00	0.00	0.00
13,300.0	90.00	0.61	7,662.0	5,357.4	598.5	5,385.0	0.00	0.00	0.00
13,400.0	90.00	0.61	7,662.0	5,457.4	599.5	5,484.9	0.00	0.00	0.00
13,500.0	90.00	0.61	7,662.0	5,557.4	600.6	5,584.7	0.00	0.00	0.00
13,600.0	90.00	0.61	7,662.0	5,657.4	601.7	5,684.6	0.00	0.00	0.00
13,700.0	90.00	0.61	7,662.0	5,757.4	602.7	5,784.4	0.00	0.00	0.00
13,800.0	90.00	0.61	7,662.0	5,857.4	603.8	5,884.3	0.00	0.00	0.00
13,900.0	90.00	0.61	7,662.0	5,957.4	604.9	5,984.1	0.00	0.00	0.00
14,000.0	90.00	0.61	7,662.0	6,057.4	605.9	6,084.0	0.00	0.00	0.00
14,100.0	90.00	0.61	7,662.0	6,157.3	607.0	6,183.8	0.00	0.00	0.00
14,200.0	90.00	0.61	7,662.0	6,257.3	608.1	6,283.7	0.00	0.00	0.00
14,300.0	90.00	0.61	7,662.0	6,357.3	609.2	6,383.5	0.00	0.00	0.00
14,400.0	90.00	0.61	7,662.0	6,457.3	610.2	6,483.4	0.00	0.00	0.00
14,500.0	90.00	0.61	7,662.0	6,557.3	611.3	6,583.2	0.00	0.00	0.00
14,600.0	90.00	0.61	7,662.0	6,657.3	612.4	6,683.1	0.00	0.00	0.00
14,700.0	90.00	0.61	7,662.0	6,757.3	613.4	6,782.9	0.00	0.00	0.00
14,800.0	90.00	0.61	7,662.0	6,857.3	614.5	6,882.8	0.00	0.00	0.00
14,900.0	90.00	0.61	7,662.0	6,957.3	615.6	6,982.6	0.00	0.00	0.00
15,000.0	90.00	0.61	7,662.0	7,057.3	616.6	7,082.5	0.00	0.00	0.00
15,100.0	90.00	0.61	7,662.0	7,157.3	617.7	7,182.3	0.00	0.00	0.00
15,200.0	90.00	0.61	7,662.0	7,257.3	618.8	7,282.2	0.00	0.00	0.00
15,300.0	90.00	0.61	7,662.0	7,357.3	619.9	7,382.0	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Company:</b>	PetroShare Corp	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Project:</b>	ADAMS COUNTY, CO	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site:</b>	S19-T1S-R65W	<b>North Reference:</b>	Grid
<b>Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,400.0	90.00	0.61	7,662.0	7,457.3	620.9	7,481.9	0.00	0.00	0.00	
15,500.0	90.00	0.61	7,662.0	7,557.3	622.0	7,581.7	0.00	0.00	0.00	
15,600.0	90.00	0.61	7,662.0	7,657.3	623.1	7,681.6	0.00	0.00	0.00	
15,700.0	90.00	0.61	7,662.0	7,757.3	624.1	7,781.4	0.00	0.00	0.00	
15,800.0	90.00	0.61	7,662.0	7,857.2	625.2	7,881.3	0.00	0.00	0.00	
15,900.0	90.00	0.61	7,662.0	7,957.2	626.3	7,981.1	0.00	0.00	0.00	
16,000.0	90.00	0.61	7,662.0	8,057.2	627.4	8,081.0	0.00	0.00	0.00	
16,100.0	90.00	0.61	7,662.0	8,157.2	628.4	8,180.8	0.00	0.00	0.00	
16,200.0	90.00	0.61	7,662.0	8,257.2	629.5	8,280.7	0.00	0.00	0.00	
16,300.0	90.00	0.61	7,662.0	8,357.2	630.6	8,380.5	0.00	0.00	0.00	
16,400.0	90.00	0.61	7,662.0	8,457.2	631.6	8,480.4	0.00	0.00	0.00	
16,500.0	90.00	0.61	7,662.0	8,557.2	632.7	8,580.2	0.00	0.00	0.00	
16,600.0	90.00	0.61	7,662.0	8,657.2	633.8	8,680.1	0.00	0.00	0.00	
16,700.0	90.00	0.61	7,662.0	8,757.2	634.8	8,780.0	0.00	0.00	0.00	
16,800.0	90.00	0.61	7,662.0	8,857.2	635.9	8,879.8	0.00	0.00	0.00	
16,900.0	90.00	0.61	7,662.0	8,957.2	637.0	8,979.7	0.00	0.00	0.00	
17,000.0	90.00	0.61	7,662.0	9,057.2	638.1	9,079.5	0.00	0.00	0.00	
17,100.0	90.00	0.61	7,662.0	9,157.2	639.1	9,179.4	0.00	0.00	0.00	
17,200.0	90.00	0.61	7,662.0	9,257.2	640.2	9,279.2	0.00	0.00	0.00	
17,300.0	90.00	0.61	7,662.0	9,357.2	641.3	9,379.1	0.00	0.00	0.00	
17,400.0	90.00	0.61	7,662.0	9,457.2	642.3	9,478.9	0.00	0.00	0.00	
17,500.0	90.00	0.61	7,662.0	9,557.1	643.4	9,578.8	0.00	0.00	0.00	
17,600.0	90.00	0.61	7,662.0	9,657.1	644.5	9,678.6	0.00	0.00	0.00	
17,700.0	90.00	0.61	7,662.0	9,757.1	645.5	9,778.5	0.00	0.00	0.00	
17,800.0	90.00	0.61	7,662.0	9,857.1	646.6	9,878.3	0.00	0.00	0.00	
17,850.8	90.00	0.61	7,662.0	9,907.9	647.2	9,929.0	0.00	0.00	0.00	
CONNER 19-18-3CDH BHL (355 FNL, 2168 FEL)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CONNER 19-18-3CDH I - hit/miss target - Shape - Point	0.00	0.00	7,662.0	113.7	728.1	1,223,668.68	3,222,858.01	39.944610	-104.705150
CONNER 19-18-3CDH I - plan hits target center - Point	0.00	0.00	7,662.0	9,907.9	647.2	1,233,462.91	3,222,777.03	39.971498	-104.705126
Interp @ 7662.0 (CONN - plan hits target center - Point	0.00	0.00	7,662.0	3,164.0	580.0	1,226,718.98	3,222,709.87	39.952987	-104.705581





## **PetroShare Corp**

**ADAMS COUNTY, CO**

**S19-T1S-R65W**

**CONNER 19-18-3CDH**

**OH**

**PLAN #1**

## **Anticollision Report**

**12 March, 2021**



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum ellipse separation of 1,000.0 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	3/12/2021		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	17,850.8	PLAN #1 (OH)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S19-T1S-R65W						
CONNER 19-18-1CDH - OH - PLAN #1	600.0	600.0	120.0	115.3	25.288	CC, ES
CONNER 19-18-1CDH - OH - PLAN #1	17,700.0	17,630.0	2,155.4	1,803.5	6.126	SF
CONNER 19-18-1NBH - OH - PLAN #1	900.0	900.0	75.0	71.5	21.578	CC, ES
CONNER 19-18-1NBH - OH - PLAN #1	17,850.8	17,429.8	1,507.1	1,333.0	8.656	SF
CONNER 19-18-1NCH - OH - PLAN #1	800.0	800.0	90.0	86.9	28.938	CC, ES
CONNER 19-18-1NCH - OH - PLAN #1	17,850.8	17,686.9	1,827.6	1,648.7	10.219	SF
CONNER 19-18-1NXH - OH - PLAN #1	700.0	700.0	105.0	99.5	19.141	CC, ES
CONNER 19-18-1NXH - OH - PLAN #1	17,700.0	17,270.0	2,117.3	1,769.2	6.081	SF
CONNER 19-18-2CDH - OH - PLAN #1	1,000.0	1,000.0	60.0	56.1	15.622	CC, ES
CONNER 19-18-2CDH - OH - PLAN #1	17,850.8	17,799.6	1,091.8	912.0	6.074	SF
CONNER 19-18-2NBH - OH - PLAN #1	1,200.0	1,200.0	15.0	10.4	3.286	CC, ES
CONNER 19-18-2NBH - OH - PLAN #1	17,850.8	17,551.4	447.2	295.0	2.939	SF
CONNER 19-18-2NCH - OH - PLAN #1	1,200.0	1,200.0	30.0	20.9	3.286	CC, ES
CONNER 19-18-2NCH - OH - PLAN #1	17,850.8	17,606.3	752.2	402.2	2.149	SF
CONNER 19-18-2NXH - OH - PLAN #1	1,100.0	1,100.0	45.0	40.8	10.710	CC, ES
CONNER 19-18-2NXH - OH - PLAN #1	17,850.8	17,385.9	1,073.2	905.3	6.393	SF
CONNER 19-18-3NBH - OH - PLAN #1	900.0	900.0	45.0	41.6	12.963	CC, ES
CONNER 19-18-3NBH - OH - PLAN #1	17,850.8	17,677.2	781.6	610.2	4.561	SF
CONNER 19-18-3NCH - OH - PLAN #1	1,000.0	1,000.0	30.0	26.2	7.820	CC, ES
CONNER 19-18-3NCH - OH - PLAN #1	17,850.8	17,720.0	417.7	254.3	2.556	SF
CONNER 19-18-3NXH - OH - PLAN #1	1,100.0	1,100.0	15.0	10.8	3.579	CC, ES, SF
CONNER 19-18-4CDH - OH - PLAN #1	800.0	800.0	60.0	56.9	19.307	CC, ES
CONNER 19-18-4CDH - OH - PLAN #1	17,850.8	17,992.3	1,092.7	912.8	6.075	SF
CONNER 19-18-4NBH - OH - PLAN #1	500.0	500.0	105.0	103.0	52.525	CC, ES
CONNER 19-18-4NBH - OH - PLAN #1	17,850.8	17,944.9	1,703.8	1,525.6	9.561	SF
CONNER 19-18-4NCH - OH - PLAN #1	600.0	600.0	90.0	87.6	37.922	CC, ES
CONNER 19-18-4NCH - OH - PLAN #1	17,850.8	18,005.9	1,622.4	1,443.5	9.066	SF
CONNER 19-18-4NXH - OH - PLAN #1	700.0	700.0	75.0	72.2	27.346	CC, ES
CONNER 19-18-4NXH - OH - PLAN #1	17,850.8	17,711.4	1,522.2	1,347.5	8.716	SF
Gail #1 (PR) - EXISTING - NO SURVEYS (PR)	16,069.2	7,593.0	583.0	406.2	3.297	CC, ES, SF
Gail Smith #1 (PR) - EXISTING - NO SURVEYS (PR)	17,677.4	7,593.0	2,181.6	1,976.9	10.660	CC
Gail Smith #1 (PR) - EXISTING - NO SURVEYS (PR)	17,700.0	7,593.0	2,181.7	1,976.7	10.643	ES
Gail Smith #1 (PR) - EXISTING - NO SURVEYS (PR)	17,850.8	7,593.0	2,188.5	1,981.6	10.581	SF
Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)	13,840.8	7,593.0	1,628.7	1,490.1	11.746	CC, ES
Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)	14,000.0	7,593.0	1,636.5	1,495.9	11.644	SF
Price 7-19 (SI) - EXISTING - NO SURVEYS (SI)	11,091.8	7,593.0	153.1	60.1	1.646	CC
Price 7-19 (SI) - EXISTING - NO SURVEYS (SI)	11,100.0	7,593.0	153.3	60.0	1.642	ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S19-T1S-R65W						
Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)	17,118.7	7,593.0	1,149.1	954.1	5.894	CC, ES
Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)	17,200.0	7,593.0	1,151.9	955.7	5.870	SF
Tracy #1 (PR) - EXISTING - NO SURVEYS (PR)	13,911.7	7,593.0	612.6	472.7	4.380	CC, ES, SF
UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)	1,200.0	1,131.0	1,425.4	1,417.2	174.805	CC, ES
UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)	9,400.0	7,593.0	1,711.4	1,644.2	25.466	SF

Offset Design S19-T1S-R65W - CONNER 19-18-1CDH - OH - PLAN #1													Offset Site Error: 0.0 usft			
Survey Program: 0-MWD															Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis				Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-90.32	-0.7	-120.0	120.0							
100.0	100.0	100.0	100.0	0.4	0.4	-90.32	-0.7	-120.0	120.0	119.4	0.55	216.697				
200.0	200.0	200.0	200.0	1.0	1.0	-90.32	-0.7	-120.0	120.0	118.4	1.60	75.206				
300.0	300.0	300.0	300.0	1.5	1.5	-90.32	-0.7	-120.0	120.0	117.6	2.45	49.001				
400.0	400.0	400.0	400.0	1.9	1.9	-90.32	-0.7	-120.0	120.0	116.8	3.24	37.074				
500.0	500.0	500.0	500.0	2.3	2.3	-90.32	-0.7	-120.0	120.0	116.0	4.00	30.015				
600.0	600.0	600.0	600.0	2.7	2.7	-90.32	-0.7	-120.0	120.0	115.3	4.75	25.288	CC, ES			
700.0	700.0	696.2	696.2	3.1	3.0	-90.60	-1.3	-121.5	121.6	116.0	5.54	21.935				
800.0	800.0	792.2	792.0	3.5	3.9	-91.38	-3.0	-126.0	126.3	119.3	6.95	18.158				
900.0	900.0	887.7	887.3	3.9	4.8	-92.55	-6.0	-133.4	134.2	126.0	8.20	16.369				
1,000.0	1,000.0	982.7	981.5	4.2	5.5	-93.98	-10.0	-143.8	145.3	136.0	9.32	15.591				
1,100.0	1,100.0	1,076.7	1,074.6	4.6	6.1	-95.52	-15.1	-156.8	159.6	149.3	10.35	15.415				
1,200.0	1,200.0	1,169.8	1,166.1	5.0	6.7	-97.05	-21.3	-172.6	177.2	165.9	11.23	15.772				
1,300.0	1,300.0	1,266.7	1,261.0	5.3	6.9	137.63	-28.5	-190.8	198.1	186.2	11.91	16.633				
1,400.0	1,399.8	1,363.9	1,356.1	5.6	7.2	137.03	-35.7	-209.1	221.6	208.9	12.61	17.576				
1,500.0	1,499.5	1,460.4	1,450.7	6.3	7.4	137.01	-42.8	-227.2	247.5	234.2	13.30	18.605				
1,600.0	1,598.7	1,556.2	1,544.5	7.0	7.7	137.41	-49.9	-245.3	276.0	262.0	14.01	19.698				
1,700.0	1,697.7	1,651.5	1,637.8	7.3	8.0	138.28	-56.9	-263.2	306.1	291.5	14.61	20.956				
1,800.0	1,796.6	1,746.7	1,731.1	7.6	8.3	139.06	-64.0	-281.1	336.3	321.1	15.21	22.108				
1,900.0	1,895.6	1,842.0	1,824.3	7.9	8.6	139.71	-71.0	-299.1	366.5	350.7	15.83	23.148				
2,000.0	1,994.5	1,937.2	1,917.6	8.2	8.9	140.26	-78.1	-317.0	396.8	380.3	16.46	24.104				
2,100.0	2,093.4	2,032.5	2,010.9	8.6	9.3	140.73	-85.1	-334.9	427.1	410.0	17.10	24.971				
2,200.0	2,192.4	2,127.7	2,104.2	8.9	9.6	141.14	-92.2	-352.9	457.4	439.7	17.76	25.763				
2,300.0	2,291.3	2,222.9	2,197.4	9.3	10.0	141.50	-99.2	-370.8	487.8	469.4	18.42	26.487				
2,400.0	2,390.3	2,318.2	2,290.7	9.6	10.3	141.82	-106.2	-388.7	518.1	499.1	19.08	27.150				
2,500.0	2,489.2	2,413.4	2,384.0	10.0	10.7	142.10	-113.3	-406.6	548.5	528.8	19.76	27.758				
2,600.0	2,588.2	2,508.7	2,477.3	10.3	11.1	142.35	-120.3	-424.6	578.9	558.5	20.44	28.318				
2,700.0	2,687.1	2,603.9	2,570.5	10.7	11.5	142.58	-127.4	-442.5	609.3	588.2	21.13	28.834				
2,800.0	2,786.1	2,699.2	2,663.8	11.1	11.9	142.78	-134.4	-460.4	639.7	617.9	21.83	29.311				
2,900.0	2,885.0	2,794.4	2,757.1	11.5	12.4	142.97	-141.5	-478.4	670.1	647.6	22.52	29.752				
3,000.0	2,984.0	2,889.6	2,850.4	11.9	12.8	143.14	-148.5	-496.3	700.5	677.3	23.23	30.160				
3,100.0	3,082.9	2,984.9	2,943.6	12.3	13.3	143.30	-155.5	-514.2	731.0	707.0	23.93	30.540				
3,200.0	3,181.9	3,080.1	3,036.9	12.7	13.7	143.44	-162.6	-532.1	761.4	736.7	24.65	30.894				
3,300.0	3,280.8	3,175.4	3,130.2	13.1	14.2	143.57	-169.6	-550.1	791.8	766.5	25.36	31.224				
3,400.0	3,379.8	3,270.6	3,223.4	13.5	14.6	143.70	-176.7	-568.0	822.3	796.2	26.08	31.532				
3,500.0	3,478.7	3,365.8	3,316.7	13.9	15.1	143.81	-183.7	-585.9	852.7	825.9	26.80	31.821				
3,600.0	3,577.7	3,461.1	3,410.0	14.3	15.6	143.92	-190.8	-603.9	883.1	855.6	27.52	32.091				
3,700.0	3,676.6	3,556.3	3,503.3	14.7	16.0	144.02	-197.8	-621.8	913.6	885.3	28.25	32.345				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,800.0	3,775.6	3,651.6	3,596.5	15.1	16.5	144.11	-204.9	-639.7	944.0	915.1	28.97	32.583		
3,900.0	3,874.5	3,746.8	3,689.8	15.6	17.0	144.20	-211.9	-657.7	974.5	944.8	29.70	32.808		
4,000.0	3,973.5	3,842.1	3,783.1	16.0	17.4	144.28	-218.9	-675.6	1,004.9	974.5	30.43	33.019		
4,100.0	4,072.4	3,937.3	3,876.4	16.4	17.9	144.36	-226.0	-693.5	1,035.4	1,004.2	31.17	33.219		
4,200.0	4,171.4	4,032.5	3,969.6	16.8	18.4	144.43	-233.0	-711.4	1,065.8	1,033.9	31.90	33.408		
4,300.0	4,270.3	4,127.8	4,062.9	17.2	18.9	144.50	-240.1	-729.4	1,096.3	1,063.7	32.64	33.587		
4,400.0	4,369.3	4,223.0	4,156.2	17.7	19.3	144.56	-247.1	-747.3	1,126.7	1,093.4	33.38	33.756		
4,500.0	4,468.2	4,318.3	4,249.4	18.1	19.8	144.62	-254.2	-765.2	1,157.2	1,123.1	34.12	33.917		
4,600.0	4,567.2	4,413.5	4,342.7	18.5	20.3	144.68	-261.2	-783.2	1,187.7	1,152.8	34.86	34.069		
4,700.0	4,666.1	4,508.7	4,436.0	18.9	20.7	144.74	-268.2	-801.1	1,218.1	1,182.5	35.60	34.214		
4,800.0	4,765.1	4,604.0	4,529.3	19.4	21.2	144.79	-275.3	-819.0	1,248.6	1,212.2	36.35	34.352		
4,900.0	4,864.0	4,699.2	4,622.5	19.8	21.7	144.84	-282.3	-836.9	1,279.0	1,242.0	37.09	34.484		
5,000.0	4,962.9	4,794.5	4,715.8	20.2	22.2	144.89	-289.4	-854.9	1,309.5	1,271.7	37.84	34.609		
5,100.0	5,061.9	4,889.7	4,809.1	20.6	22.6	144.93	-296.4	-872.8	1,340.0	1,301.4	38.58	34.728		
5,200.0	5,160.8	4,985.0	4,902.4	21.1	23.1	144.98	-303.5	-890.7	1,370.4	1,331.1	39.33	34.843		
5,300.0	5,259.8	5,080.2	4,995.6	21.5	23.6	145.02	-310.5	-908.7	1,400.9	1,360.8	40.08	34.952		
5,400.0	5,358.7	5,175.4	5,088.9	21.9	24.1	145.06	-317.5	-926.6	1,431.4	1,390.5	40.83	35.056		
5,500.0	5,457.7	5,270.7	5,182.2	22.3	24.5	145.10	-324.6	-944.5	1,461.8	1,420.3	41.58	35.156		
5,600.0	5,556.6	5,365.9	5,275.5	22.8	25.0	145.14	-331.6	-962.4	1,492.3	1,450.0	42.33	35.252		
5,700.0	5,655.6	5,461.2	5,368.7	23.2	25.5	145.17	-338.7	-980.4	1,522.8	1,479.7	43.08	35.344		
5,800.0	5,754.5	5,556.4	5,462.0	23.6	26.0	145.20	-345.7	-998.3	1,553.2	1,509.4	43.84	35.432		
5,900.0	5,853.5	5,651.6	5,555.3	24.1	26.5	145.24	-352.8	-1,016.2	1,583.7	1,539.1	44.59	35.516		
6,000.0	5,952.4	5,746.9	5,648.5	24.5	26.9	145.27	-359.8	-1,034.2	1,614.2	1,568.8	45.35	35.597		
6,100.0	6,051.4	5,842.1	5,741.8	24.9	27.4	145.30	-366.9	-1,052.1	1,644.6	1,598.5	46.10	35.676		
6,200.0	6,150.3	5,937.4	5,835.1	25.4	27.9	145.33	-373.9	-1,070.0	1,675.1	1,628.3	46.86	35.751		
6,300.0	6,249.3	6,032.6	5,928.4	25.8	28.4	145.36	-380.9	-1,087.9	1,705.6	1,658.0	47.61	35.823		
6,400.0	6,348.2	6,127.9	6,021.6	26.2	28.8	145.38	-388.0	-1,105.9	1,736.1	1,687.7	48.37	35.893		
6,500.0	6,447.2	6,223.1	6,114.9	26.6	29.3	145.41	-395.0	-1,123.8	1,766.5	1,717.4	49.13	35.960		
6,600.0	6,546.1	6,318.3	6,208.2	27.1	29.8	145.43	-402.1	-1,141.7	1,797.0	1,747.1	49.88	36.024		
6,700.0	6,645.1	6,413.6	6,301.5	27.5	30.3	145.46	-409.1	-1,159.7	1,827.5	1,776.8	50.64	36.087		
6,800.0	6,744.0	6,508.8	6,394.7	27.9	30.7	145.48	-416.2	-1,177.6	1,857.9	1,806.5	51.40	36.147		
6,900.0	6,843.0	6,604.1	6,488.0	28.4	31.2	145.50	-423.2	-1,195.5	1,888.4	1,836.3	52.16	36.205		
7,000.0	6,941.9	6,699.3	6,581.3	28.8	31.7	145.53	-430.2	-1,213.4	1,918.9	1,866.0	52.92	36.261		
7,100.0	7,040.9	6,794.5	6,674.6	29.2	32.2	145.55	-437.3	-1,231.4	1,949.4	1,895.7	53.68	36.315		
7,200.0	7,140.1	6,889.5	6,767.5	29.7	32.7	-139.94	-444.3	-1,249.3	1,979.4	1,925.0	54.44	36.357		
7,300.0	7,237.8	6,981.9	6,858.1	30.0	33.1	-107.61	-451.1	-1,266.7	2,008.3	1,953.0	55.30	36.316		
7,400.0	7,331.2	7,069.1	6,943.4	30.5	33.6	-96.80	-457.6	-1,283.1	2,035.6	1,979.7	55.88	36.430		
7,500.0	7,417.3	7,148.3	7,021.0	30.9	33.9	-91.44	-463.5	-1,298.0	2,061.5	2,005.2	56.27	36.633		
7,600.0	7,493.6	7,229.4	7,100.5	31.1	34.4	-88.36	-467.7	-1,313.3	2,086.2	2,029.6	56.64	36.834		
7,700.0	7,557.7	7,333.7	7,202.3	31.2	34.9	-86.84	-457.8	-1,333.0	2,109.1	2,051.9	57.14	36.912		
7,800.0	7,607.6	7,467.0	7,326.9	31.3	35.6	-86.52	-418.3	-1,357.3	2,129.2	2,071.5	57.74	36.875		
7,900.0	7,642.0	7,652.8	7,478.6	31.2	36.1	-87.47	-316.7	-1,387.4	2,145.1	2,086.7	58.43	36.715		
8,000.0	7,659.6	7,922.9	7,624.9	31.1	36.4	-89.26	-94.7	-1,417.5	2,153.8	2,094.7	59.18	36.395		
8,100.0	7,662.0	8,165.2	7,660.0	31.0	36.3	-89.95	143.3	-1,426.2	2,152.1	2,092.2	59.99	35.878		
8,200.0	7,662.0	8,265.1	7,660.0	31.0	36.4	-89.95	243.2	-1,427.1	2,148.1	2,087.4	60.71	35.384		
8,300.0	7,662.0	8,365.0	7,660.0	31.0	36.5	-89.95	343.1	-1,427.9	2,144.1	2,082.5	61.63	34.792		
8,400.0	7,662.0	8,465.0	7,660.0	31.3	36.8	-89.95	443.0	-1,428.7	2,140.1	2,077.3	62.73	34.114		
8,500.0	7,662.0	8,564.9	7,660.0	31.9	37.1	-89.95	542.9	-1,429.5	2,136.0	2,072.0	64.01	33.368		
8,600.0	7,662.0	8,664.8	7,660.0	32.7	37.5	-89.95	642.9	-1,430.4	2,132.0	2,066.6	65.46	32.568		
8,700.0	7,662.0	8,764.7	7,660.0	33.5	38.0	-89.95	742.8	-1,431.2	2,128.0	2,060.9	67.07	31.728		
8,800.0	7,662.0	8,864.6	7,660.0	34.4	38.6	-89.95	842.7	-1,432.0	2,124.0	2,055.2	68.82	30.862		
8,900.0	7,662.0	8,964.5	7,660.0	35.4	39.4	-89.95	942.6	-1,432.8	2,120.0	2,049.2	70.71	29.982		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.0	7,662.0	9,064.5	7,660.0	36.4	40.2	-89.95	1,042.5	-1,433.7	2,115.9	2,043.2	72.72	29.099		
9,100.0	7,662.0	9,164.4	7,660.0	37.5	41.1	-89.95	1,142.4	-1,434.5	2,111.9	2,037.1	74.84	28.219		
9,200.0	7,662.0	9,264.3	7,660.0	38.6	42.0	-89.95	1,242.3	-1,435.3	2,107.9	2,030.8	77.07	27.351		
9,300.0	7,662.0	9,364.2	7,660.0	39.8	43.0	-89.95	1,342.3	-1,436.2	2,103.9	2,024.5	79.39	26.500		
9,400.0	7,662.0	9,464.1	7,660.0	41.0	44.1	-89.95	1,442.2	-1,437.0	2,099.8	2,018.0	81.80	25.670		
9,500.0	7,662.0	9,564.1	7,660.0	42.3	45.2	-89.95	1,542.1	-1,437.8	2,095.8	2,011.5	84.29	24.863		
9,600.0	7,662.0	9,664.0	7,660.0	43.6	46.4	-89.95	1,642.0	-1,438.6	2,091.8	2,004.9	86.86	24.083		
9,700.0	7,662.0	9,763.9	7,660.0	44.9	47.6	-89.95	1,741.9	-1,439.5	2,087.8	1,998.3	89.49	23.330		
9,800.0	7,662.0	9,863.8	7,660.0	46.3	48.9	-89.94	1,841.8	-1,440.3	2,083.7	1,991.6	92.18	22.605		
9,900.0	7,662.0	9,963.7	7,660.0	47.7	50.1	-89.94	1,941.8	-1,441.1	2,079.7	1,984.8	94.93	21.908		
10,000.0	7,662.0	10,063.7	7,660.0	49.1	51.4	-89.94	2,041.7	-1,442.0	2,075.7	1,978.0	97.73	21.239		
10,100.0	7,662.0	10,163.6	7,660.0	50.5	52.8	-89.94	2,141.6	-1,442.8	2,071.7	1,971.1	100.58	20.598		
10,200.0	7,662.0	10,263.5	7,660.0	52.0	54.1	-89.94	2,241.5	-1,443.6	2,067.6	1,964.2	103.47	19.984		
10,300.0	7,662.0	10,363.4	7,660.0	53.4	55.5	-89.94	2,341.4	-1,444.4	2,063.6	1,957.2	106.39	19.396		
10,400.0	7,662.0	10,463.3	7,660.0	54.9	56.9	-89.94	2,441.3	-1,445.3	2,059.6	1,950.2	109.36	18.833		
10,500.0	7,662.0	10,563.3	7,660.0	56.4	58.4	-89.94	2,541.2	-1,446.1	2,055.6	1,943.2	112.36	18.295		
10,600.0	7,662.0	10,663.2	7,660.0	58.0	59.8	-89.94	2,641.2	-1,446.9	2,051.6	1,936.2	115.39	17.779		
10,700.0	7,662.0	10,763.1	7,660.0	59.5	61.3	-89.94	2,741.1	-1,447.7	2,047.5	1,929.1	118.45	17.286		
10,800.0	7,662.0	10,863.0	7,660.0	61.1	62.7	-89.94	2,841.0	-1,448.6	2,043.5	1,922.0	121.53	16.814		
10,900.0	7,662.0	10,962.9	7,660.0	62.6	64.2	-89.94	2,940.9	-1,449.4	2,039.5	1,914.8	124.64	16.363		
11,000.0	7,662.0	11,062.8	7,660.0	64.2	65.7	-89.94	3,040.8	-1,450.2	2,035.5	1,907.7	127.78	15.930		
11,100.0	7,662.0	11,162.8	7,660.0	65.8	67.3	-89.94	3,140.7	-1,451.1	2,031.4	1,900.5	130.93	15.516		
11,200.0	7,662.0	11,262.7	7,660.0	67.4	68.8	-89.94	3,240.7	-1,451.9	2,028.9	1,894.8	134.11	15.129		
11,228.5	7,662.0	11,291.2	7,660.0	67.8	69.2	-89.94	3,269.2	-1,452.1	2,028.8	1,893.8	135.01	15.027		
11,300.0	7,662.0	11,362.7	7,660.0	69.0	70.3	-89.94	3,340.7	-1,452.7	2,029.8	1,892.5	137.29	14.785		
11,400.0	7,662.0	11,462.7	7,660.0	70.6	71.9	-89.94	3,440.7	-1,453.5	2,031.7	1,891.3	140.47	14.464		
11,500.0	7,662.0	11,562.7	7,660.0	72.2	73.4	-89.94	3,540.6	-1,454.4	2,033.6	1,890.0	143.67	14.155		
11,600.0	7,662.0	11,662.7	7,660.0	73.8	75.0	-89.94	3,640.6	-1,455.2	2,035.5	1,888.6	146.88	13.858		
11,700.0	7,662.0	11,762.7	7,660.0	75.4	76.6	-89.94	3,740.6	-1,456.0	2,037.4	1,887.3	150.11	13.573		
11,800.0	7,662.0	11,862.6	7,660.0	77.0	78.2	-89.94	3,840.6	-1,456.9	2,039.3	1,886.0	153.35	13.298		
11,900.0	7,662.0	11,962.6	7,660.0	78.7	79.8	-89.94	3,940.6	-1,457.7	2,041.2	1,884.6	156.61	13.034		
12,000.0	7,662.0	12,062.6	7,660.0	80.3	81.4	-89.94	4,040.5	-1,458.5	2,043.1	1,883.3	159.87	12.780		
12,100.0	7,662.0	12,162.6	7,660.0	81.9	83.0	-89.94	4,140.5	-1,459.3	2,045.0	1,881.9	163.15	12.535		
12,200.0	7,662.0	12,262.6	7,660.0	83.6	84.6	-89.94	4,240.5	-1,460.2	2,046.9	1,880.5	166.43	12.299		
12,300.0	7,662.0	12,362.5	7,660.0	85.2	86.2	-89.94	4,340.5	-1,461.0	2,048.8	1,879.1	169.73	12.071		
12,400.0	7,662.0	12,462.5	7,660.0	86.9	87.8	-89.94	4,440.5	-1,461.8	2,050.7	1,877.7	173.03	11.852		
12,500.0	7,662.0	12,562.5	7,660.0	88.5	89.5	-89.94	4,540.4	-1,462.7	2,052.6	1,876.3	176.34	11.640		
12,600.0	7,662.0	12,662.5	7,660.0	90.2	91.1	-89.94	4,640.4	-1,463.5	2,054.5	1,874.8	179.66	11.435		
12,700.0	7,662.0	12,762.5	7,660.0	91.8	92.7	-89.94	4,740.4	-1,464.3	2,056.4	1,873.4	182.99	11.238		
12,800.0	7,662.0	12,862.5	7,660.0	93.5	94.4	-89.94	4,840.4	-1,465.1	2,058.3	1,872.0	186.33	11.047		
12,900.0	7,662.0	12,962.4	7,660.0	95.2	96.0	-89.94	4,940.3	-1,466.0	2,060.2	1,870.5	189.67	10.862		
13,000.0	7,662.0	13,062.4	7,660.0	96.9	97.7	-89.94	5,040.3	-1,466.8	2,062.1	1,869.1	193.02	10.683		
13,100.0	7,662.0	13,162.4	7,660.0	98.5	99.3	-89.94	5,140.3	-1,467.6	2,064.0	1,867.6	196.38	10.511		
13,200.0	7,662.0	13,262.4	7,660.0	100.2	101.0	-89.94	5,240.3	-1,468.4	2,065.9	1,866.2	199.74	10.343		
13,300.0	7,662.0	13,362.4	7,660.0	101.9	102.7	-89.94	5,340.3	-1,469.3	2,067.8	1,864.7	203.10	10.181		
13,400.0	7,662.0	13,462.3	7,660.0	103.6	104.3	-89.94	5,440.2	-1,470.1	2,069.7	1,863.2	206.47	10.024		
13,500.0	7,662.0	13,562.3	7,660.0	105.3	106.0	-89.94	5,540.2	-1,470.9	2,071.6	1,861.7	209.85	9.872		
13,600.0	7,662.0	13,662.3	7,660.0	107.0	107.7	-89.94	5,640.2	-1,471.8	2,073.5	1,860.3	213.23	9.724		
13,700.0	7,662.0	13,762.3	7,660.0	108.7	109.4	-89.94	5,740.2	-1,472.6	2,075.4	1,858.8	216.62	9.581		
13,800.0	7,662.0	13,862.3	7,660.0	110.3	111.0	-89.94	5,840.2	-1,473.4	2,077.3	1,857.3	220.01	9.442		
13,900.0	7,662.0	13,962.3	7,660.0	112.0	112.7	-89.94	5,940.1	-1,474.2	2,079.2	1,855.8	223.40	9.307		
14,000.0	7,662.0	14,062.2	7,660.0	113.7	114.4	-89.94	6,040.1	-1,475.1	2,081.1	1,854.3	226.80	9.176		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	7,662.0	14,162.2	7,660.0	115.4	116.1	-89.94	6,140.1	-1,475.9	2,083.0	1,852.8	230.20	9.048		
14,200.0	7,662.0	14,262.2	7,660.0	117.1	117.8	-89.95	6,240.1	-1,476.7	2,084.9	1,851.3	233.61	8.925		
14,300.0	7,662.0	14,362.2	7,660.0	118.8	119.5	-89.95	6,340.0	-1,477.6	2,086.8	1,849.8	237.02	8.804		
14,400.0	7,662.0	14,462.2	7,660.0	120.5	121.2	-89.95	6,440.0	-1,478.4	2,088.7	1,848.3	240.43	8.687		
14,500.0	7,662.0	14,562.1	7,660.0	122.3	122.9	-89.95	6,540.0	-1,479.2	2,090.6	1,846.7	243.85	8.573		
14,600.0	7,662.0	14,662.1	7,660.0	124.0	124.6	-89.95	6,640.0	-1,480.0	2,092.5	1,845.2	247.27	8.462		
14,700.0	7,662.0	14,762.1	7,660.0	125.7	126.3	-89.95	6,740.0	-1,480.9	2,094.4	1,843.7	250.69	8.354		
14,800.0	7,662.0	14,862.1	7,660.0	127.4	128.0	-89.95	6,839.9	-1,481.7	2,096.3	1,842.2	254.11	8.249		
14,900.0	7,662.0	14,962.1	7,660.0	129.1	129.7	-89.95	6,939.9	-1,482.5	2,098.2	1,840.6	257.54	8.147		
15,000.0	7,662.0	15,062.1	7,660.0	130.8	131.4	-89.95	7,039.9	-1,483.4	2,100.1	1,839.1	260.97	8.047		
15,100.0	7,662.0	15,162.0	7,660.0	132.5	133.1	-89.95	7,139.9	-1,484.2	2,102.0	1,837.6	264.40	7.950		
15,200.0	7,662.0	15,262.0	7,660.0	134.2	134.8	-89.95	7,239.9	-1,485.0	2,103.9	1,836.0	267.84	7.855		
15,300.0	7,662.0	15,362.0	7,660.0	136.0	136.5	-89.95	7,339.8	-1,485.8	2,105.8	1,834.5	271.28	7.762		
15,400.0	7,662.0	15,462.0	7,660.0	137.7	138.2	-89.95	7,439.8	-1,486.7	2,107.7	1,833.0	274.72	7.672		
15,500.0	7,662.0	15,562.0	7,660.0	139.4	139.9	-89.95	7,539.8	-1,487.5	2,109.6	1,831.4	278.16	7.584		
15,600.0	7,662.0	15,661.9	7,660.0	141.1	141.6	-89.95	7,639.8	-1,488.3	2,111.5	1,829.9	281.60	7.498		
15,700.0	7,662.0	15,761.9	7,660.0	142.8	143.3	-89.95	7,739.7	-1,489.2	2,113.4	1,828.3	285.05	7.414		
15,800.0	7,662.0	15,861.9	7,660.0	144.5	145.0	-89.95	7,839.7	-1,490.0	2,115.3	1,826.8	288.49	7.332		
15,900.0	7,662.0	15,961.9	7,660.0	146.3	146.8	-89.95	7,939.7	-1,490.8	2,117.2	1,825.2	291.94	7.252		
16,000.0	7,662.0	16,061.9	7,660.0	148.0	148.5	-89.95	8,039.7	-1,491.6	2,119.1	1,823.7	295.39	7.174		
16,100.0	7,662.0	16,161.9	7,660.0	149.7	150.2	-89.95	8,139.7	-1,492.5	2,121.0	1,822.1	298.85	7.097		
16,200.0	7,662.0	16,261.8	7,660.0	151.4	151.9	-89.95	8,239.6	-1,493.3	2,122.9	1,820.6	302.30	7.022		
16,300.0	7,662.0	16,361.8	7,660.0	153.2	153.6	-89.95	8,339.6	-1,494.1	2,124.8	1,819.0	305.76	6.949		
16,400.0	7,662.0	16,461.8	7,660.0	154.9	155.4	-89.95	8,439.6	-1,495.0	2,126.7	1,817.4	309.21	6.878		
16,500.0	7,662.0	16,561.8	7,660.0	156.6	157.1	-89.95	8,539.6	-1,495.8	2,128.6	1,815.9	312.67	6.808		
16,600.0	7,662.0	16,661.8	7,660.0	158.4	158.8	-89.95	8,639.6	-1,496.6	2,130.5	1,814.3	316.13	6.739		
16,700.0	7,662.0	16,761.7	7,660.0	160.1	160.5	-89.95	8,739.5	-1,497.4	2,132.4	1,812.8	319.60	6.672		
16,800.0	7,662.0	16,861.7	7,660.0	161.8	162.3	-89.95	8,839.5	-1,498.3	2,134.3	1,811.2	323.06	6.606		
16,900.0	7,662.0	16,961.7	7,660.0	163.5	164.0	-89.95	8,939.5	-1,499.1	2,136.2	1,809.6	326.52	6.542		
17,000.0	7,662.0	17,061.7	7,660.0	165.3	165.7	-89.95	9,039.5	-1,499.9	2,138.0	1,808.1	329.99	6.479		
17,100.0	7,662.0	17,161.7	7,660.0	167.0	167.4	-89.95	9,139.4	-1,500.7	2,139.9	1,806.5	333.46	6.417		
17,200.0	7,662.0	17,261.7	7,660.0	168.7	169.2	-89.95	9,239.4	-1,501.6	2,141.8	1,804.9	336.92	6.357		
17,300.0	7,662.0	17,361.6	7,660.0	170.5	170.9	-89.95	9,339.4	-1,502.4	2,143.7	1,803.4	340.39	6.298		
17,400.0	7,662.0	17,461.6	7,660.0	172.2	172.6	-89.95	9,439.4	-1,503.2	2,145.6	1,801.8	343.86	6.240		
17,500.0	7,662.0	17,561.6	7,660.0	173.9	174.4	-89.95	9,539.4	-1,504.1	2,147.5	1,800.2	347.34	6.183		
17,600.0	7,662.0	17,630.0	7,660.0	175.7	175.5	-89.95	9,607.8	-1,504.6	2,149.7	1,799.3	350.34	6.136		
17,700.0	7,662.0	17,630.0	7,660.0	177.4	175.5	-89.95	9,607.8	-1,504.6	2,155.4	1,803.5	351.86	6.126 SF		
17,800.0	7,662.0	17,630.0	7,660.0	179.1	175.5	-89.95	9,607.8	-1,504.6	2,165.7	1,813.0	352.65	6.141		
17,850.8	7,662.0	17,630.0	7,660.0	180.0	175.5	-89.95	9,607.8	-1,504.6	2,172.6	1,819.8	352.78	6.159		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.32	-0.4	-75.0	75.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.32	-0.4	-75.0	75.0	74.7	0.28	270.618		
200.0	200.0	200.0	200.0	1.0	0.0	-90.32	-0.4	-75.0	75.0	74.2	0.80	93.963		
300.0	300.0	300.0	300.0	1.5	0.0	-90.32	-0.4	-75.0	75.0	73.8	1.22	61.227		
400.0	400.0	400.0	400.0	1.9	0.0	-90.32	-0.4	-75.0	75.0	73.4	1.62	46.326		
500.0	500.0	500.0	500.0	2.3	0.0	-90.32	-0.4	-75.0	75.0	73.0	2.00	37.506		
600.0	600.0	600.0	600.0	2.7	0.0	-90.32	-0.4	-75.0	75.0	72.6	2.37	31.599		
700.0	700.0	700.0	700.0	3.1	0.0	-90.32	-0.4	-75.0	75.0	72.2	2.74	27.340		
800.0	800.0	800.0	800.0	3.5	0.0	-90.32	-0.4	-75.0	75.0	71.9	3.11	24.113		
900.0	900.0	900.0	900.0	3.9	0.0	-90.32	-0.4	-75.0	75.0	71.5	3.47	21.578 CC, ES		
1,000.0	1,000.0	997.9	997.9	4.2	0.0	-91.09	-1.5	-76.3	76.3	72.5	3.85	19.829		
1,100.0	1,100.0	1,095.7	1,095.5	4.6	0.0	-93.26	-4.6	-80.2	80.5	76.2	4.24	18.969		
1,200.0	1,200.0	1,192.9	1,192.4	5.0	0.0	-96.41	-9.7	-86.7	87.6	82.9	4.64	18.857		
1,300.0	1,300.0	1,289.7	1,288.5	5.3	0.0	136.58	-16.9	-95.7	99.1	94.0	5.07	19.534		
1,400.0	1,399.8	1,388.4	1,386.4	5.6	0.0	134.93	-25.0	-105.9	114.5	109.0	5.51	20.766		
1,500.0	1,499.5	1,486.8	1,483.9	6.3	0.0	134.69	-33.2	-116.1	132.4	126.4	5.93	22.322		
1,600.0	1,598.7	1,584.7	1,580.9	7.0	0.0	135.36	-41.3	-126.3	152.7	146.3	6.35	24.039		
1,700.0	1,697.7	1,682.2	1,677.6	7.3	0.0	136.57	-49.3	-136.4	174.6	167.9	6.67	26.184		
1,800.0	1,796.6	1,779.7	1,774.2	7.6	0.0	137.56	-57.4	-146.5	196.6	189.6	6.99	28.145		
1,900.0	1,895.6	1,877.2	1,870.8	7.9	0.0	138.35	-65.4	-156.7	218.7	211.4	7.31	29.922		
2,000.0	1,994.5	1,974.7	1,967.4	8.2	0.0	138.99	-73.5	-166.8	240.8	233.1	7.64	31.532		
2,100.0	2,093.4	2,072.2	2,064.1	8.6	0.0	139.53	-81.5	-176.9	262.9	254.9	7.97	32.994		
2,200.0	2,192.4	2,169.7	2,160.7	8.9	0.0	139.98	-89.6	-187.0	285.0	276.7	8.30	34.324		
2,300.0	2,291.3	2,267.2	2,257.3	9.3	0.0	140.37	-97.7	-197.1	307.2	298.6	8.64	35.536		
2,400.0	2,390.3	2,364.7	2,354.0	9.6	0.0	140.70	-105.7	-207.3	329.4	320.4	8.99	36.644		
2,500.0	2,489.2	2,462.2	2,450.6	10.0	0.0	140.99	-113.8	-217.4	351.5	342.2	9.34	37.657		
2,600.0	2,588.2	2,559.7	2,547.2	10.3	0.0	141.25	-121.8	-227.5	373.7	364.0	9.69	38.588		
2,700.0	2,687.1	2,657.2	2,643.9	10.7	0.0	141.48	-129.9	-237.6	395.9	385.9	10.04	39.443		
2,800.0	2,786.1	2,754.7	2,740.5	11.1	0.0	141.69	-137.9	-247.8	418.1	407.7	10.39	40.232		
2,900.0	2,885.0	2,852.2	2,837.1	11.5	0.0	141.87	-146.0	-257.9	440.3	429.6	10.75	40.961		
3,000.0	2,984.0	2,949.7	2,933.8	11.9	0.0	142.04	-154.0	-268.0	462.5	451.4	11.11	41.635		
3,100.0	3,082.9	3,047.2	3,030.4	12.3	0.0	142.19	-162.1	-278.1	484.7	473.3	11.47	42.261		
3,200.0	3,181.9	3,144.6	3,127.0	12.7	0.0	142.33	-170.2	-288.2	506.9	495.1	11.83	42.843		
3,300.0	3,280.8	3,242.1	3,223.7	13.1	0.0	142.45	-178.2	-298.4	529.2	517.0	12.20	43.385		
3,400.0	3,379.8	3,339.6	3,320.3	13.5	0.0	142.57	-186.3	-308.5	551.4	538.8	12.56	43.891		
3,500.0	3,478.7	3,437.1	3,416.9	13.9	0.0	142.68	-194.3	-318.6	573.6	560.7	12.93	44.363		
3,600.0	3,577.7	3,534.6	3,513.6	14.3	0.0	142.77	-202.4	-328.7	595.8	582.5	13.30	44.806		
3,700.0	3,676.6	3,632.1	3,610.2	14.7	0.0	142.87	-210.4	-338.8	618.0	604.4	13.67	45.221		
3,800.0	3,775.6	3,729.6	3,706.8	15.1	0.0	142.95	-218.5	-349.0	640.3	626.2	14.04	45.611		
3,900.0	3,874.5	3,827.1	3,803.5	15.6	0.0	143.03	-226.5	-359.1	662.5	648.1	14.41	45.978		
4,000.0	3,973.5	3,924.6	3,900.1	16.0	0.0	143.11	-234.6	-369.2	684.7	669.9	14.78	46.324		
4,100.0	4,072.4	4,022.1	3,996.7	16.4	0.0	143.18	-242.6	-379.3	706.9	691.8	15.15	46.650		
4,200.0	4,171.4	4,119.6	4,093.4	16.8	0.0	143.24	-250.7	-389.4	729.2	713.6	15.53	46.959		
4,300.0	4,270.3	4,217.1	4,190.0	17.2	0.0	143.31	-258.8	-399.6	751.4	735.5	15.90	47.250		
4,400.0	4,369.3	4,314.6	4,286.6	17.7	0.0	143.36	-266.8	-409.7	773.6	757.3	16.28	47.527		
4,500.0	4,468.2	4,412.1	4,383.3	18.1	0.0	143.42	-274.9	-419.8	795.9	779.2	16.65	47.789		
4,600.0	4,567.2	4,509.6	4,479.9	18.5	0.0	143.47	-282.9	-429.9	818.1	801.1	17.03	48.037		
4,700.0	4,666.1	4,607.1	4,576.5	18.9	0.0	143.52	-291.0	-440.0	840.3	822.9	17.41	48.274		
4,800.0	4,765.1	4,704.6	4,673.2	19.4	0.0	143.57	-299.0	-450.2	862.5	844.8	17.78	48.499		
4,900.0	4,864.0	4,802.1	4,769.8	19.8	0.0	143.61	-307.1	-460.3	884.8	866.6	18.16	48.713		
5,000.0	4,962.9	4,899.6	4,866.4	20.2	0.0	143.65	-315.1	-470.4	907.0	888.5	18.54	48.917		
5,100.0	5,061.9	4,997.1	4,963.1	20.6	0.0	143.69	-323.2	-480.5	929.2	910.3	18.92	49.112		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,094.5	5,059.7	21.1	0.0	143.73	-331.3	-490.7	951.5	932.2	19.30	49.299		
5,300.0	5,259.8	5,192.0	5,156.3	21.5	0.0	143.77	-339.3	-500.8	973.7	954.0	19.68	49.477		
5,400.0	5,358.7	5,289.5	5,253.0	21.9	0.0	143.80	-347.4	-510.9	995.9	975.9	20.06	49.647		
5,500.0	5,457.7	5,387.0	5,349.6	22.3	0.0	143.84	-355.4	-521.0	1,018.2	997.7	20.44	49.810		
5,600.0	5,556.6	5,484.5	5,446.2	22.8	0.0	143.87	-363.5	-531.1	1,040.4	1,019.6	20.82	49.966		
5,700.0	5,655.6	5,582.0	5,542.9	23.2	0.0	143.90	-371.5	-541.3	1,062.7	1,041.5	21.20	50.116		
5,800.0	5,754.5	5,679.5	5,639.5	23.6	0.0	143.93	-379.6	-551.4	1,084.9	1,063.3	21.59	50.260		
5,900.0	5,853.5	5,777.0	5,736.1	24.1	0.0	143.96	-387.6	-561.5	1,107.1	1,085.2	21.97	50.398		
6,000.0	5,952.4	5,874.5	5,832.8	24.5	0.0	143.98	-395.7	-571.6	1,129.4	1,107.0	22.35	50.530		
6,100.0	6,051.4	5,972.0	5,929.4	24.9	0.0	144.01	-403.8	-581.7	1,151.6	1,128.9	22.73	50.658		
6,200.0	6,150.3	6,069.5	6,026.0	25.4	0.0	144.04	-411.8	-591.9	1,173.8	1,150.7	23.12	50.781		
6,300.0	6,249.3	6,167.0	6,122.7	25.8	0.0	144.06	-419.9	-602.0	1,196.1	1,172.6	23.50	50.899		
6,400.0	6,348.2	6,264.5	6,219.3	26.2	0.0	144.08	-427.9	-612.1	1,218.3	1,194.4	23.88	51.012		
6,500.0	6,447.2	6,362.0	6,315.9	26.6	0.0	144.11	-436.0	-622.2	1,240.5	1,216.3	24.27	51.122		
6,600.0	6,546.1	6,459.5	6,412.6	27.1	0.0	144.13	-444.0	-632.3	1,262.8	1,238.1	24.65	51.228		
6,700.0	6,645.1	6,557.0	6,509.2	27.5	0.0	144.15	-452.1	-642.5	1,285.0	1,260.0	25.03	51.330		
6,800.0	6,744.0	6,654.5	6,605.8	27.9	0.0	144.17	-460.1	-652.6	1,307.3	1,281.8	25.42	51.428		
6,900.0	6,843.0	6,753.0	6,703.6	28.4	0.0	144.28	-466.3	-662.8	1,329.5	1,303.7	25.80	51.524		
7,000.0	6,941.9	6,849.8	6,799.4	28.8	0.0	145.00	-457.9	-673.0	1,351.7	1,325.5	26.15	51.687		
7,100.0	7,040.9	6,938.8	6,885.0	29.2	0.0	146.24	-436.1	-682.2	1,374.4	1,348.0	26.44	51.984		
7,200.0	7,140.1	7,020.7	6,960.1	29.7	0.0	-138.42	-404.4	-690.4	1,397.9	1,371.2	26.71	52.334		
7,300.0	7,237.8	7,100.0	7,027.7	30.0	0.0	-104.90	-363.8	-697.9	1,421.0	1,393.9	27.10	52.434		
7,400.0	7,331.2	7,176.0	7,086.7	30.5	0.0	-92.69	-316.4	-704.5	1,442.9	1,415.7	27.24	52.977		
7,500.0	7,417.3	7,250.0	7,137.7	30.9	0.0	-85.97	-263.2	-710.3	1,462.7	1,435.5	27.25	53.672		
7,600.0	7,493.6	7,324.3	7,181.6	31.1	0.0	-81.54	-203.5	-715.4	1,479.7	1,452.4	27.24	54.327		
7,700.0	7,557.7	7,400.0	7,217.9	31.2	0.0	-78.48	-137.3	-719.8	1,493.1	1,465.9	27.23	54.837		
7,800.0	7,607.6	7,468.8	7,243.2	31.3	0.0	-76.48	-73.5	-723.0	1,502.6	1,475.3	27.25	55.139		
7,900.0	7,642.0	7,540.1	7,261.3	31.2	0.0	-75.30	-4.6	-725.4	1,507.8	1,480.4	27.34	55.150		
8,000.0	7,659.6	7,611.1	7,270.6	31.1	0.0	-74.90	65.8	-727.0	1,508.5	1,480.9	27.51	54.840		
8,100.0	7,662.0	7,694.5	7,272.0	31.0	0.0	-74.97	149.1	-727.9	1,505.1	1,477.4	27.75	54.239		
8,200.0	7,662.0	7,794.4	7,272.0	31.0	0.0	-74.93	249.0	-728.7	1,501.3	1,473.2	28.09	53.449		
8,300.0	7,662.0	7,894.3	7,272.0	31.0	0.0	-74.89	348.9	-729.5	1,497.4	1,468.8	28.53	52.489		
8,400.0	7,662.0	7,994.2	7,272.0	31.3	0.0	-74.85	448.8	-730.3	1,493.5	1,464.4	29.06	51.388		
8,500.0	7,662.0	8,094.1	7,272.0	31.9	0.0	-74.81	548.7	-731.2	1,489.6	1,459.9	29.69	50.173		
8,600.0	7,662.0	8,194.1	7,272.0	32.7	0.0	-74.77	648.7	-732.0	1,485.7	1,455.3	30.40	48.871		
8,700.0	7,662.0	8,294.0	7,272.0	33.5	0.0	-74.73	748.6	-732.8	1,481.8	1,450.6	31.19	47.508		
8,800.0	7,662.0	8,393.9	7,272.0	34.4	0.0	-74.69	848.5	-733.6	1,478.0	1,445.9	32.05	46.107		
8,900.0	7,662.0	8,493.8	7,272.0	35.4	0.0	-74.65	948.4	-734.5	1,474.1	1,441.1	32.99	44.688		
9,000.0	7,662.0	8,593.7	7,272.0	36.4	0.0	-74.61	1,048.3	-735.3	1,470.2	1,436.2	33.98	43.268		
9,100.0	7,662.0	8,693.7	7,272.0	37.5	0.0	-74.56	1,148.2	-736.1	1,466.3	1,431.3	35.03	41.861		
9,200.0	7,662.0	8,793.6	7,272.0	38.6	0.0	-74.52	1,248.1	-736.9	1,462.4	1,426.3	36.13	40.479		
9,300.0	7,662.0	8,893.5	7,272.0	39.8	0.0	-74.48	1,348.1	-737.8	1,458.6	1,421.3	37.28	39.129		
9,400.0	7,662.0	8,993.4	7,272.0	41.0	0.0	-74.44	1,448.0	-738.6	1,454.7	1,416.2	38.47	37.818		
9,500.0	7,662.0	9,093.3	7,272.0	42.3	0.0	-74.39	1,547.9	-739.4	1,450.8	1,411.1	39.69	36.550		
9,600.0	7,662.0	9,193.3	7,272.0	43.6	0.0	-74.35	1,647.8	-740.2	1,446.9	1,406.0	40.96	35.328		
9,700.0	7,662.0	9,293.2	7,272.0	44.9	0.0	-74.31	1,747.7	-741.1	1,443.0	1,400.8	42.25	34.154		
9,800.0	7,662.0	9,393.1	7,272.0	46.3	0.0	-74.26	1,847.6	-741.9	1,439.2	1,395.6	43.58	33.027		
9,900.0	7,662.0	9,493.0	7,272.0	47.7	0.0	-74.22	1,947.6	-742.7	1,435.3	1,390.4	44.93	31.948		
10,000.0	7,662.0	9,592.9	7,272.0	49.1	0.0	-74.18	2,047.5	-743.6	1,431.4	1,385.1	46.30	30.916		
10,100.0	7,662.0	9,692.9	7,272.0	50.5	0.0	-74.13	2,147.4	-744.4	1,427.6	1,379.9	47.70	29.930		
10,200.0	7,662.0	9,792.8	7,272.0	52.0	0.0	-74.09	2,247.3	-745.2	1,423.7	1,374.6	49.11	28.989		
10,300.0	7,662.0	9,892.7	7,272.0	53.4	0.0	-74.04	2,347.2	-746.0	1,419.8	1,369.3	50.55	28.090		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	9,992.6	7,272.0	54.9	0.0	-74.00	2,447.1	-746.9	1,415.9	1,363.9	52.00	27.232		
10,500.0	7,662.0	10,092.5	7,272.0	56.4	0.0	-73.95	2,547.0	-747.7	1,412.1	1,358.6	53.46	26.413		
10,600.0	7,662.0	10,192.4	7,272.0	58.0	0.0	-73.91	2,647.0	-748.5	1,408.2	1,353.3	54.94	25.632		
10,700.0	7,662.0	10,292.4	7,272.0	59.5	0.0	-73.86	2,746.9	-749.3	1,404.3	1,347.9	56.43	24.886		
10,800.0	7,662.0	10,392.3	7,272.0	61.1	0.0	-73.82	2,846.8	-750.2	1,400.5	1,342.5	57.93	24.173		
10,900.0	7,662.0	10,492.2	7,272.0	62.6	0.0	-73.77	2,946.7	-751.0	1,396.6	1,337.2	59.45	23.493		
11,000.0	7,662.0	10,592.1	7,272.0	64.2	0.0	-73.73	3,046.6	-751.8	1,392.7	1,331.8	60.97	22.842		
11,100.0	7,662.0	10,692.0	7,272.0	65.8	0.0	-73.68	3,146.5	-752.6	1,388.9	1,326.4	62.51	22.220		
11,200.0	7,662.0	10,792.0	7,272.0	67.4	0.0	-73.66	3,246.5	-753.5	1,386.5	1,322.4	64.05	21.645		
11,228.5	7,662.0	10,820.6	7,272.0	67.8	0.0	-73.66	3,275.1	-753.7	1,386.4	1,321.9	64.50	21.495		
11,300.0	7,662.0	10,892.0	7,272.0	69.0	0.0	-73.67	3,346.5	-754.3	1,387.3	1,321.7	65.61	21.144		
11,400.0	7,662.0	10,992.0	7,272.0	70.6	0.0	-73.69	3,446.5	-755.1	1,389.2	1,322.0	67.17	20.682		
11,500.0	7,662.0	11,092.0	7,272.0	72.2	0.0	-73.71	3,546.4	-756.0	1,391.0	1,322.3	68.73	20.239		
11,600.0	7,662.0	11,191.9	7,272.0	73.8	0.0	-73.74	3,646.4	-756.8	1,392.8	1,322.5	70.30	19.813		
11,700.0	7,662.0	11,291.9	7,272.0	75.4	0.0	-73.76	3,746.4	-757.6	1,394.6	1,322.8	71.87	19.404		
11,800.0	7,662.0	11,391.9	7,272.0	77.0	0.0	-73.78	3,846.4	-758.4	1,396.4	1,323.0	73.46	19.011		
11,900.0	7,662.0	11,491.9	7,272.0	78.7	0.0	-73.80	3,946.4	-759.3	1,398.3	1,323.2	75.04	18.633		
12,000.0	7,662.0	11,591.9	7,272.0	80.3	0.0	-73.82	4,046.3	-760.1	1,400.1	1,323.5	76.64	18.269		
12,100.0	7,662.0	11,691.9	7,272.0	81.9	0.0	-73.84	4,146.3	-760.9	1,401.9	1,323.7	78.23	17.919		
12,200.0	7,662.0	11,791.8	7,272.0	83.6	0.0	-73.87	4,246.3	-761.7	1,403.7	1,323.9	79.84	17.582		
12,300.0	7,662.0	11,891.8	7,272.0	85.2	0.0	-73.89	4,346.3	-762.6	1,405.6	1,324.1	81.45	17.258		
12,400.0	7,662.0	11,991.8	7,272.0	86.9	0.0	-73.91	4,446.3	-763.4	1,407.4	1,324.3	83.06	16.945		
12,500.0	7,662.0	12,091.8	7,272.0	88.5	0.0	-73.93	4,546.2	-764.2	1,409.2	1,324.5	84.67	16.643		
12,600.0	7,662.0	12,191.8	7,272.0	90.2	0.0	-73.95	4,646.2	-765.1	1,411.0	1,324.7	86.29	16.351		
12,700.0	7,662.0	12,291.7	7,272.0	91.8	0.0	-73.97	4,746.2	-765.9	1,412.9	1,324.9	87.92	16.070		
12,800.0	7,662.0	12,391.7	7,272.0	93.5	0.0	-73.99	4,846.2	-766.7	1,414.7	1,325.1	89.55	15.798		
12,900.0	7,662.0	12,491.7	7,272.0	95.2	0.0	-74.02	4,946.1	-767.5	1,416.5	1,325.3	91.18	15.536		
13,000.0	7,662.0	12,591.7	7,272.0	96.9	0.0	-74.04	5,046.1	-768.4	1,418.3	1,325.5	92.81	15.282		
13,100.0	7,662.0	12,691.7	7,272.0	98.5	0.0	-74.06	5,146.1	-769.2	1,420.1	1,325.7	94.45	15.036		
13,200.0	7,662.0	12,791.7	7,272.0	100.2	0.0	-74.08	5,246.1	-770.0	1,422.0	1,325.9	96.09	14.799		
13,300.0	7,662.0	12,891.6	7,272.0	101.9	0.0	-74.10	5,346.1	-770.8	1,423.8	1,326.1	97.73	14.569		
13,400.0	7,662.0	12,991.6	7,272.0	103.6	0.0	-74.12	5,446.0	-771.7	1,425.6	1,326.2	99.38	14.346		
13,500.0	7,662.0	13,091.6	7,272.0	105.3	0.0	-74.14	5,546.0	-772.5	1,427.4	1,326.4	101.02	14.130		
13,600.0	7,662.0	13,191.6	7,272.0	107.0	0.0	-74.16	5,646.0	-773.3	1,429.3	1,326.6	102.67	13.920		
13,700.0	7,662.0	13,291.6	7,272.0	108.7	0.0	-74.18	5,746.0	-774.1	1,431.1	1,326.8	104.33	13.717		
13,800.0	7,662.0	13,391.5	7,272.0	110.3	0.0	-74.20	5,846.0	-775.0	1,432.9	1,326.9	105.98	13.521		
13,900.0	7,662.0	13,491.5	7,272.0	112.0	0.0	-74.22	5,945.9	-775.8	1,434.7	1,327.1	107.64	13.329		
14,000.0	7,662.0	13,591.5	7,272.0	113.7	0.0	-74.24	6,045.9	-776.6	1,436.6	1,327.3	109.30	13.144		
14,100.0	7,662.0	13,691.5	7,272.0	115.4	0.0	-74.27	6,145.9	-777.5	1,438.4	1,327.4	110.96	12.963		
14,200.0	7,662.0	13,791.5	7,272.0	117.1	0.0	-74.29	6,245.9	-778.3	1,440.2	1,327.6	112.62	12.788		
14,300.0	7,662.0	13,891.5	7,272.0	118.8	0.0	-74.31	6,345.8	-779.1	1,442.1	1,327.8	114.29	12.618		
14,400.0	7,662.0	13,991.4	7,272.0	120.5	0.0	-74.33	6,445.8	-779.9	1,443.9	1,327.9	115.95	12.452		
14,500.0	7,662.0	14,091.4	7,272.0	122.3	0.0	-74.35	6,545.8	-780.8	1,445.7	1,328.1	117.62	12.291		
14,600.0	7,662.0	14,191.4	7,272.0	124.0	0.0	-74.37	6,645.8	-781.6	1,447.5	1,328.2	119.29	12.135		
14,700.0	7,662.0	14,291.4	7,272.0	125.7	0.0	-74.39	6,745.8	-782.4	1,449.4	1,328.4	120.96	11.982		
14,800.0	7,662.0	14,391.4	7,272.0	127.4	0.0	-74.41	6,845.7	-783.2	1,451.2	1,328.6	122.63	11.834		
14,900.0	7,662.0	14,491.4	7,272.0	129.1	0.0	-74.43	6,945.7	-784.1	1,453.0	1,328.7	124.31	11.689		
15,000.0	7,662.0	14,591.3	7,272.0	130.8	0.0	-74.45	7,045.7	-784.9	1,454.8	1,328.9	125.98	11.548		
15,100.0	7,662.0	14,691.3	7,272.0	132.5	0.0	-74.47	7,145.7	-785.7	1,456.7	1,329.0	127.66	11.411		
15,200.0	7,662.0	14,791.3	7,272.0	134.2	0.0	-74.49	7,245.7	-786.6	1,458.5	1,329.2	129.34	11.277		
15,300.0	7,662.0	14,891.3	7,272.0	136.0	0.0	-74.51	7,345.6	-787.4	1,460.3	1,329.3	131.02	11.146		
15,400.0	7,662.0	14,991.3	7,272.0	137.7	0.0	-74.53	7,445.6	-788.2	1,462.2	1,329.5	132.70	11.019		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.0	7,662.0	15,091.2	7,272.0	139.4	0.0	-74.55	7,545.6	-789.0	1,464.0	1,329.6	134.38	10.895		
15,600.0	7,662.0	15,191.2	7,272.0	141.1	0.0	-74.57	7,645.6	-789.9	1,465.8	1,329.8	136.06	10.773		
15,700.0	7,662.0	15,291.2	7,272.0	142.8	0.0	-74.59	7,745.5	-790.7	1,467.6	1,329.9	137.74	10.655		
15,800.0	7,662.0	15,391.2	7,272.0	144.5	0.0	-74.61	7,845.5	-791.5	1,469.5	1,330.0	139.43	10.539		
15,900.0	7,662.0	15,491.2	7,272.0	146.3	0.0	-74.63	7,945.5	-792.3	1,471.3	1,330.2	141.11	10.426		
16,000.0	7,662.0	15,591.2	7,272.0	148.0	0.0	-74.65	8,045.5	-793.2	1,473.1	1,330.3	142.80	10.316		
16,100.0	7,662.0	15,691.1	7,272.0	149.7	0.0	-74.67	8,145.5	-794.0	1,475.0	1,330.5	144.49	10.208		
16,200.0	7,662.0	15,791.1	7,272.0	151.4	0.0	-74.68	8,245.4	-794.8	1,476.8	1,330.6	146.18	10.103		
16,300.0	7,662.0	15,891.1	7,272.0	153.2	0.0	-74.70	8,345.4	-795.7	1,478.6	1,330.8	147.87	10.000		
16,400.0	7,662.0	15,991.1	7,272.0	154.9	0.0	-74.72	8,445.4	-796.5	1,480.5	1,330.9	149.56	9.899		
16,500.0	7,662.0	16,091.1	7,272.0	156.6	0.0	-74.74	8,545.4	-797.3	1,482.3	1,331.0	151.25	9.800		
16,600.0	7,662.0	16,191.0	7,272.0	158.4	0.0	-74.76	8,645.4	-798.1	1,484.1	1,331.2	152.94	9.704		
16,700.0	7,662.0	16,291.0	7,272.0	160.1	0.0	-74.78	8,745.3	-799.0	1,485.9	1,331.3	154.64	9.609		
16,800.0	7,662.0	16,391.0	7,272.0	161.8	0.0	-74.80	8,845.3	-799.8	1,487.8	1,331.4	156.33	9.517		
16,900.0	7,662.0	16,491.0	7,272.0	163.5	0.0	-74.82	8,945.3	-800.6	1,489.6	1,331.6	158.03	9.426		
17,000.0	7,662.0	16,591.0	7,272.0	165.3	0.0	-74.84	9,045.3	-801.4	1,491.4	1,331.7	159.72	9.338		
17,100.0	7,662.0	16,691.0	7,272.0	167.0	0.0	-74.86	9,145.2	-802.3	1,493.3	1,331.9	161.42	9.251		
17,200.0	7,662.0	16,790.9	7,272.0	168.7	0.0	-74.88	9,245.2	-803.1	1,495.1	1,332.0	163.11	9.166		
17,300.0	7,662.0	16,890.9	7,272.0	170.5	0.0	-74.90	9,345.2	-803.9	1,496.9	1,332.1	164.81	9.083		
17,400.0	7,662.0	16,990.9	7,272.0	172.2	0.0	-74.91	9,445.2	-804.7	1,498.8	1,332.3	166.51	9.001		
17,500.0	7,662.0	17,090.9	7,272.0	173.9	0.0	-74.93	9,545.2	-805.6	1,500.6	1,332.4	168.21	8.921		
17,600.0	7,662.0	17,190.9	7,272.0	175.7	0.0	-74.95	9,645.1	-806.4	1,502.4	1,332.5	169.91	8.842		
17,700.0	7,662.0	17,290.8	7,272.0	177.4	0.0	-74.97	9,745.1	-807.2	1,504.3	1,332.6	171.61	8.766		
17,800.0	7,662.0	17,390.8	7,272.0	179.1	0.0	-74.99	9,845.1	-808.1	1,506.1	1,332.8	173.31	8.690		
17,850.8	7,662.0	17,429.8	7,272.0	180.0	0.0	-75.00	9,884.1	-808.4	1,507.1	1,333.0	174.11	8.656 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.31	-0.5	-90.0	90.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.31	-0.5	-90.0	90.0	89.7	0.28	324.788		
200.0	200.0	200.0	200.0	1.0	0.0	-90.31	-0.5	-90.0	90.0	89.2	0.80	112.771		
300.0	300.0	300.0	300.0	1.5	0.0	-90.31	-0.5	-90.0	90.0	88.8	1.22	73.481		
400.0	400.0	400.0	400.0	1.9	0.0	-90.31	-0.5	-90.0	90.0	88.4	1.62	55.597		
500.0	500.0	500.0	500.0	2.3	0.0	-90.31	-0.5	-90.0	90.0	88.0	2.00	45.012		
600.0	600.0	600.0	600.0	2.7	0.0	-90.31	-0.5	-90.0	90.0	87.6	2.37	37.922		
700.0	700.0	700.0	700.0	3.1	0.0	-90.31	-0.5	-90.0	90.0	87.2	2.74	32.811		
800.0	800.0	800.0	800.0	3.5	0.0	-90.31	-0.5	-90.0	90.0	86.9	3.11	28.938 CC, ES		
900.0	900.0	897.2	897.2	3.9	0.0	-90.78	-1.2	-91.4	91.5	88.0	3.48	26.286		
1,000.0	1,000.0	994.3	994.1	4.2	0.0	-92.09	-3.5	-95.8	96.1	92.2	3.86	24.884		
1,100.0	1,100.0	1,090.8	1,090.3	4.6	0.0	-94.02	-7.2	-103.1	103.8	99.5	4.25	24.448		
1,200.0	1,200.0	1,186.7	1,185.6	5.0	0.0	-96.27	-12.4	-113.1	114.7	110.1	4.63	24.789		
1,300.0	1,300.0	1,281.6	1,279.4	5.3	0.0	137.76	-19.0	-125.9	130.2	125.2	5.04	25.846		
1,400.0	1,399.8	1,379.1	1,375.4	5.6	0.0	136.70	-26.7	-140.7	150.2	144.8	5.48	27.396		
1,500.0	1,499.5	1,476.5	1,471.4	6.3	0.0	136.60	-34.3	-155.5	172.8	166.9	5.91	29.230		
1,600.0	1,598.7	1,573.3	1,566.7	7.0	0.0	137.12	-41.9	-170.3	197.8	191.5	6.34	31.207		
1,700.0	1,697.7	1,669.6	1,661.6	7.3	0.0	138.14	-49.5	-184.9	224.5	217.8	6.65	33.759		
1,800.0	1,796.6	1,765.9	1,756.4	7.6	0.0	139.00	-57.1	-199.6	251.2	244.3	6.96	36.094		
1,900.0	1,895.6	1,862.2	1,851.3	7.9	0.0	139.69	-64.6	-214.3	278.0	270.8	7.28	38.206		
2,000.0	1,994.5	1,958.5	1,946.2	8.2	0.0	140.26	-72.2	-228.9	304.9	297.3	7.60	40.120		
2,100.0	2,093.4	2,054.7	2,041.0	8.6	0.0	140.74	-79.8	-243.6	331.7	323.8	7.93	41.856		
2,200.0	2,192.4	2,151.0	2,135.9	8.9	0.0	141.15	-87.4	-258.3	358.6	350.4	8.26	43.434		
2,300.0	2,291.3	2,247.3	2,230.8	9.3	0.0	141.50	-94.9	-272.9	385.5	376.9	8.59	44.871		
2,400.0	2,390.3	2,343.6	2,325.6	9.6	0.0	141.80	-102.5	-287.6	412.4	403.5	8.93	46.184		
2,500.0	2,489.2	2,439.9	2,420.5	10.0	0.0	142.07	-110.1	-302.3	439.3	430.0	9.27	47.385		
2,600.0	2,588.2	2,536.2	2,515.4	10.3	0.0	142.31	-117.6	-316.9	466.2	456.6	9.62	48.486		
2,700.0	2,687.1	2,632.5	2,610.2	10.7	0.0	142.52	-125.2	-331.6	493.2	483.2	9.96	49.499		
2,800.0	2,786.1	2,728.8	2,705.1	11.1	0.0	142.71	-132.8	-346.3	520.1	509.8	10.31	50.432		
2,900.0	2,885.0	2,825.1	2,800.0	11.5	0.0	142.88	-140.3	-360.9	547.0	536.4	10.66	51.293		
3,000.0	2,984.0	2,921.4	2,894.8	11.9	0.0	143.03	-147.9	-375.6	574.0	563.0	11.02	52.091		
3,100.0	3,082.9	3,017.7	2,989.7	12.3	0.0	143.17	-155.5	-390.3	600.9	589.6	11.37	52.830		
3,200.0	3,181.9	3,113.9	3,084.6	12.7	0.0	143.30	-163.1	-404.9	627.9	616.1	11.73	53.517		
3,300.0	3,280.8	3,210.2	3,179.4	13.1	0.0	143.42	-170.6	-419.6	654.8	642.7	12.09	54.156		
3,400.0	3,379.8	3,306.5	3,274.3	13.5	0.0	143.52	-178.2	-434.3	681.8	669.3	12.45	54.752		
3,500.0	3,478.7	3,402.8	3,369.2	13.9	0.0	143.62	-185.8	-448.9	708.7	695.9	12.81	55.310		
3,600.0	3,577.7	3,499.1	3,464.0	14.3	0.0	143.72	-193.3	-463.6	735.7	722.5	13.18	55.831		
3,700.0	3,676.6	3,595.4	3,558.9	14.7	0.0	143.80	-200.9	-478.3	762.7	749.1	13.54	56.320		
3,800.0	3,775.6	3,691.7	3,653.8	15.1	0.0	143.88	-208.5	-492.9	789.6	775.7	13.91	56.779		
3,900.0	3,874.5	3,788.0	3,748.6	15.6	0.0	143.96	-216.1	-507.6	816.6	802.3	14.27	57.211		
4,000.0	3,973.5	3,884.3	3,843.5	16.0	0.0	144.03	-223.6	-522.2	843.5	828.9	14.64	57.617		
4,100.0	4,072.4	3,980.6	3,938.4	16.4	0.0	144.10	-231.2	-536.9	870.5	855.5	15.01	58.001		
4,200.0	4,171.4	4,076.9	4,033.2	16.8	0.0	144.16	-238.8	-551.6	897.5	882.1	15.38	58.363		
4,300.0	4,270.3	4,173.1	4,128.1	17.2	0.0	144.22	-246.3	-566.2	924.4	908.7	15.75	58.705		
4,400.0	4,369.3	4,269.4	4,223.0	17.7	0.0	144.27	-253.9	-580.9	951.4	935.3	16.12	59.029		
4,500.0	4,468.2	4,365.7	4,317.8	18.1	0.0	144.32	-261.5	-595.6	978.4	961.9	16.49	59.336		
4,600.0	4,567.2	4,462.0	4,412.7	18.5	0.0	144.37	-269.1	-610.2	1,005.3	988.5	16.86	59.628		
4,700.0	4,666.1	4,558.3	4,507.6	18.9	0.0	144.42	-276.6	-624.9	1,032.3	1,015.1	17.23	59.905		
4,800.0	4,765.1	4,654.6	4,602.4	19.4	0.0	144.46	-284.2	-639.6	1,059.3	1,041.7	17.61	60.168		
4,900.0	4,864.0	4,750.9	4,697.3	19.8	0.0	144.51	-291.8	-654.2	1,086.3	1,068.3	17.98	60.419		
5,000.0	4,962.9	4,847.2	4,792.2	20.2	0.0	144.55	-299.3	-668.9	1,113.2	1,094.9	18.35	60.657		
5,100.0	5,061.9	4,943.5	4,887.0	20.6	0.0	144.58	-306.9	-683.6	1,140.2	1,121.5	18.73	60.885		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,200.0	5,160.8	5,039.8	4,981.9	21.1	0.0	144.62	-314.5	-698.2	1,167.2	1,148.1	19.10	61.102		
5,300.0	5,259.8	5,136.1	5,076.8	21.5	0.0	144.65	-322.0	-712.9	1,194.1	1,174.7	19.48	61.310		
5,400.0	5,358.7	5,232.4	5,171.6	21.9	0.0	144.69	-329.6	-727.6	1,221.1	1,201.3	19.85	61.508		
5,500.0	5,457.7	5,328.6	5,266.5	22.3	0.0	144.72	-337.2	-742.2	1,248.1	1,227.9	20.23	61.698		
5,600.0	5,556.6	5,424.9	5,361.4	22.8	0.0	144.75	-344.8	-756.9	1,275.1	1,254.5	20.61	61.880		
5,700.0	5,655.6	5,521.2	5,456.2	23.2	0.0	144.78	-352.3	-771.6	1,302.0	1,281.1	20.98	62.054		
5,800.0	5,754.5	5,617.5	5,551.1	23.6	0.0	144.81	-359.9	-786.2	1,329.0	1,307.7	21.36	62.221		
5,900.0	5,853.5	5,713.8	5,646.0	24.1	0.0	144.83	-367.5	-800.9	1,356.0	1,334.3	21.74	62.381		
6,000.0	5,952.4	5,810.1	5,740.8	24.5	0.0	144.86	-375.0	-815.6	1,383.0	1,360.9	22.12	62.535		
6,100.0	6,051.4	5,906.4	5,835.7	24.9	0.0	144.88	-382.6	-830.2	1,409.9	1,387.5	22.49	62.683		
6,200.0	6,150.3	6,002.7	5,930.6	25.4	0.0	144.91	-390.2	-844.9	1,436.9	1,414.0	22.87	62.825		
6,300.0	6,249.3	6,099.0	6,025.4	25.8	0.0	144.93	-397.8	-859.6	1,463.9	1,440.6	23.25	62.962		
6,400.0	6,348.2	6,195.3	6,120.3	26.2	0.0	144.95	-405.3	-874.2	1,490.9	1,467.2	23.63	63.093		
6,500.0	6,447.2	6,291.6	6,215.2	26.6	0.0	144.97	-412.9	-888.9	1,517.8	1,493.8	24.01	63.220		
6,600.0	6,546.1	6,387.8	6,310.0	27.1	0.0	145.00	-420.5	-903.6	1,544.8	1,520.4	24.39	63.342		
6,700.0	6,645.1	6,484.1	6,404.9	27.5	0.0	145.02	-428.0	-918.2	1,571.8	1,547.0	24.77	63.459		
6,800.0	6,744.0	6,580.4	6,499.8	27.9	0.0	145.03	-435.6	-932.9	1,598.8	1,573.6	25.15	63.573		
6,900.0	6,843.0	6,676.7	6,594.6	28.4	0.0	145.05	-443.2	-947.6	1,625.8	1,600.2	25.53	63.682		
7,000.0	6,941.9	6,773.0	6,689.5	28.8	0.0	145.07	-450.7	-962.2	1,652.7	1,626.8	25.91	63.787		
7,100.0	7,040.9	6,869.3	6,784.3	29.2	0.0	145.09	-458.3	-976.9	1,679.7	1,653.4	26.29	63.889		
7,200.0	7,140.1	6,965.2	6,878.9	29.7	0.0	145.10	-465.9	-991.5	1,706.4	1,679.7	26.67	63.908		
7,300.0	7,237.8	7,060.5	6,972.9	30.0	0.0	145.11	-473.5	-1,006.1	1,732.0	1,704.8	27.05	63.962		
7,400.0	7,331.2	7,159.1	7,068.8	30.5	0.0	145.12	-481.1	-1,021.1	1,756.0	1,728.4	27.43	63.962		
7,500.0	7,417.3	7,261.8	7,164.2	30.9	0.0	145.13	-488.7	-1,036.2	1,777.6	1,749.8	27.81	63.882		
7,600.0	7,493.6	7,368.9	7,255.5	31.1	0.0	145.14	-496.3	-1,050.8	1,796.1	1,768.1	28.19	64.141		
7,700.0	7,557.7	7,480.9	7,338.6	31.2	0.0	145.15	-503.9	-1,064.3	1,811.0	1,782.8	28.57	64.314		
7,800.0	7,607.6	7,597.4	7,408.3	31.3	0.0	145.16	-511.5	-1,075.9	1,821.7	1,793.3	28.95	64.334		
7,900.0	7,642.0	7,717.7	7,459.5	31.2	0.0	145.17	-519.1	-1,084.8	1,827.7	1,799.2	29.33	64.144		
8,000.0	7,659.6	7,840.7	7,487.5	31.1	0.0	145.18	-526.7	-1,090.1	1,828.9	1,800.2	29.71	63.709		
8,100.0	7,662.0	7,954.6	7,492.0	31.0	0.0	145.19	-534.3	-1,091.8	1,825.6	1,796.6	30.09	63.016		
8,200.0	7,662.0	8,054.5	7,492.0	31.0	0.0	145.20	-541.9	-1,092.6	1,821.6	1,792.2	30.47	62.090		
8,300.0	7,662.0	8,154.4	7,492.0	31.0	0.0	145.21	-549.5	-1,093.4	1,817.6	1,787.8	30.85	60.975		
8,400.0	7,662.0	8,254.3	7,492.0	31.3	0.0	145.22	-557.1	-1,094.2	1,813.6	1,783.2	31.23	59.704		
8,500.0	7,662.0	8,354.2	7,492.0	31.9	0.0	145.23	-564.7	-1,095.1	1,809.6	1,778.5	31.61	58.308		
8,600.0	7,662.0	8,454.1	7,492.0	32.7	0.0	145.24	-572.3	-1,095.9	1,805.5	1,773.8	31.99	56.818		
8,700.0	7,662.0	8,554.1	7,492.0	33.5	0.0	145.25	-579.9	-1,096.7	1,801.5	1,768.9	32.37	55.260		
8,800.0	7,662.0	8,654.0	7,492.0	34.4	0.0	145.26	-587.5	-1,097.5	1,797.5	1,764.0	32.75	53.661		
8,900.0	7,662.0	8,753.9	7,492.0	35.4	0.0	145.27	-595.1	-1,098.4	1,793.5	1,759.1	33.13	52.043		
9,000.0	7,662.0	8,853.8	7,492.0	36.4	0.0	145.28	-602.7	-1,099.2	1,789.5	1,754.0	33.51	50.424		
9,100.0	7,662.0	8,953.7	7,492.0	37.5	0.0	145.29	-610.3	-1,100.0	1,785.5	1,748.9	33.89	48.820		
9,200.0	7,662.0	9,053.7	7,492.0	38.6	0.0	145.30	-617.9	-1,100.8	1,781.5	1,743.8	34.27	47.242		
9,300.0	7,662.0	9,153.6	7,492.0	39.8	0.0	145.31	-625.5	-1,101.7	1,777.5	1,738.6	34.65	45.701		
9,400.0	7,662.0	9,253.5	7,492.0	41.0	0.0	145.32	-633.1	-1,102.5	1,773.5	1,733.4	35.03	44.204		
9,500.0	7,662.0	9,353.4	7,492.0	42.3	0.0	145.33	-640.7	-1,103.3	1,769.5	1,728.1	35.41	42.754		
9,600.0	7,662.0	9,453.3	7,492.0	43.6	0.0	145.34	-648.3	-1,104.2	1,765.5	1,722.8	35.79	41.356		
9,700.0	7,662.0	9,553.3	7,492.0	44.9	0.0	145.35	-655.9	-1,105.0	1,761.5	1,717.5	36.17	40.010		
9,800.0	7,662.0	9,653.2	7,492.0	46.3	0.0	145.36	-663.5	-1,105.8	1,757.5	1,712.1	36.55	38.719		
9,900.0	7,662.0	9,753.1	7,492.0	47.7	0.0	145.37	-671.1	-1,106.6	1,753.5	1,706.7	36.93	37.481		
10,000.0	7,662.0	9,853.0	7,492.0	49.1	0.0	145.38	-678.7	-1,107.5	1,749.5	1,701.3	37.31	36.295		
10,100.0	7,662.0	9,952.9	7,492.0	50.5	0.0	145.39	-686.3	-1,108.3	1,745.5	1,695.8	37.69	35.162		
10,200.0	7,662.0	10,052.9	7,492.0	52.0	0.0	145.40	-693.9	-1,109.1	1,741.5	1,690.4	38.07	34.078		
10,300.0	7,662.0	10,152.8	7,492.0	53.4	0.0	145.41	-701.5	-1,109.9	1,737.4	1,684.9	38.45	33.043		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,252.7	7,492.0	54.9	0.0	-84.37	2,444.1	-1,110.8	1,733.4	1,679.4	54.08	32.054		
10,500.0	7,662.0	10,352.6	7,492.0	56.4	0.0	-84.35	2,544.0	-1,111.6	1,729.4	1,673.8	55.59	31.109		
10,600.0	7,662.0	10,452.5	7,492.0	58.0	0.0	-84.34	2,644.0	-1,112.4	1,725.4	1,668.3	57.12	30.207		
10,700.0	7,662.0	10,552.4	7,492.0	59.5	0.0	-84.33	2,743.9	-1,113.2	1,721.4	1,662.8	58.66	29.345		
10,800.0	7,662.0	10,652.4	7,492.0	61.1	0.0	-84.31	2,843.8	-1,114.1	1,717.4	1,657.2	60.22	28.521		
10,900.0	7,662.0	10,752.3	7,492.0	62.6	0.0	-84.30	2,943.7	-1,114.9	1,713.4	1,651.6	61.78	27.733		
11,000.0	7,662.0	10,852.2	7,492.0	64.2	0.0	-84.29	3,043.6	-1,115.7	1,709.4	1,646.1	63.36	26.979		
11,100.0	7,662.0	10,952.1	7,492.0	65.8	0.0	-84.27	3,143.5	-1,116.5	1,705.4	1,640.5	64.95	26.258		
11,200.0	7,662.0	11,052.1	7,492.0	67.4	0.0	-84.27	3,243.5	-1,117.4	1,702.9	1,636.4	66.55	25.590		
11,228.5	7,662.0	11,080.6	7,492.0	67.8	0.0	-84.27	3,272.0	-1,117.6	1,702.8	1,635.8	67.00	25.414		
11,300.0	7,662.0	11,152.1	7,492.0	69.0	0.0	-84.27	3,343.5	-1,118.2	1,703.8	1,635.7	68.15	25.002		
11,400.0	7,662.0	11,252.1	7,492.0	70.6	0.0	-84.28	3,443.5	-1,119.0	1,705.7	1,636.0	69.74	24.460		
11,500.0	7,662.0	11,352.0	7,492.0	72.2	0.0	-84.29	3,543.4	-1,119.9	1,707.6	1,636.3	71.33	23.938		
11,600.0	7,662.0	11,452.0	7,492.0	73.8	0.0	-84.29	3,643.4	-1,120.7	1,709.5	1,636.5	72.94	23.437		
11,700.0	7,662.0	11,552.0	7,492.0	75.4	0.0	-84.30	3,743.4	-1,121.5	1,711.4	1,636.8	74.55	22.956		
11,800.0	7,662.0	11,652.0	7,492.0	77.0	0.0	-84.30	3,843.4	-1,122.3	1,713.3	1,637.1	76.17	22.493		
11,900.0	7,662.0	11,752.0	7,492.0	78.7	0.0	-84.31	3,943.4	-1,123.2	1,715.1	1,637.3	77.79	22.048		
12,000.0	7,662.0	11,852.0	7,492.0	80.3	0.0	-84.32	4,043.3	-1,124.0	1,717.0	1,637.6	79.42	21.619		
12,100.0	7,662.0	11,951.9	7,492.0	81.9	0.0	-84.32	4,143.3	-1,124.8	1,718.9	1,637.9	81.06	21.207		
12,200.0	7,662.0	12,051.9	7,492.0	83.6	0.0	-84.33	4,243.3	-1,125.6	1,720.8	1,638.1	82.69	20.809		
12,300.0	7,662.0	12,151.9	7,492.0	85.2	0.0	-84.34	4,343.3	-1,126.5	1,722.7	1,638.4	84.34	20.426		
12,400.0	7,662.0	12,251.9	7,492.0	86.9	0.0	-84.34	4,443.2	-1,127.3	1,724.6	1,638.6	85.99	20.056		
12,500.0	7,662.0	12,351.9	7,492.0	88.5	0.0	-84.35	4,543.2	-1,128.1	1,726.5	1,638.8	87.64	19.700		
12,600.0	7,662.0	12,451.8	7,492.0	90.2	0.0	-84.35	4,643.2	-1,129.0	1,728.4	1,639.1	89.30	19.355		
12,700.0	7,662.0	12,551.8	7,492.0	91.8	0.0	-84.36	4,743.2	-1,129.8	1,730.2	1,639.3	90.96	19.023		
12,800.0	7,662.0	12,651.8	7,492.0	93.5	0.0	-84.37	4,843.2	-1,130.6	1,732.1	1,639.5	92.62	18.702		
12,900.0	7,662.0	12,751.8	7,492.0	95.2	0.0	-84.37	4,943.1	-1,131.4	1,734.0	1,639.7	94.29	18.391		
13,000.0	7,662.0	12,851.8	7,492.0	96.9	0.0	-84.38	5,043.1	-1,132.3	1,735.9	1,640.0	95.96	18.091		
13,100.0	7,662.0	12,951.8	7,492.0	98.5	0.0	-84.39	5,143.1	-1,133.1	1,737.8	1,640.2	97.63	17.800		
13,200.0	7,662.0	13,051.7	7,492.0	100.2	0.0	-84.39	5,243.1	-1,133.9	1,739.7	1,640.4	99.30	17.519		
13,300.0	7,662.0	13,151.7	7,492.0	101.9	0.0	-84.40	5,343.1	-1,134.7	1,741.6	1,640.6	100.98	17.246		
13,400.0	7,662.0	13,251.7	7,492.0	103.6	0.0	-84.40	5,443.0	-1,135.6	1,743.5	1,640.8	102.66	16.982		
13,500.0	7,662.0	13,351.7	7,492.0	105.3	0.0	-84.41	5,543.0	-1,136.4	1,745.3	1,641.0	104.35	16.727		
13,600.0	7,662.0	13,451.7	7,492.0	107.0	0.0	-84.42	5,643.0	-1,137.2	1,747.2	1,641.2	106.03	16.479		
13,700.0	7,662.0	13,551.6	7,492.0	108.7	0.0	-84.42	5,743.0	-1,138.1	1,749.1	1,641.4	107.72	16.238		
13,800.0	7,662.0	13,651.6	7,492.0	110.3	0.0	-84.43	5,842.9	-1,138.9	1,751.0	1,641.6	109.41	16.004		
13,900.0	7,662.0	13,751.6	7,492.0	112.0	0.0	-84.43	5,942.9	-1,139.7	1,752.9	1,641.8	111.10	15.778		
14,000.0	7,662.0	13,851.6	7,492.0	113.7	0.0	-84.44	6,042.9	-1,140.5	1,754.8	1,642.0	112.79	15.557		
14,100.0	7,662.0	13,951.6	7,492.0	115.4	0.0	-84.45	6,142.9	-1,141.4	1,756.7	1,642.2	114.49	15.344		
14,200.0	7,662.0	14,051.6	7,492.0	117.1	0.0	-84.45	6,242.9	-1,142.2	1,758.6	1,642.4	116.19	15.136		
14,300.0	7,662.0	14,151.5	7,492.0	118.8	0.0	-84.46	6,342.8	-1,143.0	1,760.5	1,642.6	117.89	14.934		
14,400.0	7,662.0	14,251.5	7,492.0	120.5	0.0	-84.46	6,442.8	-1,143.8	1,762.3	1,642.8	119.59	14.737		
14,500.0	7,662.0	14,351.5	7,492.0	122.3	0.0	-84.47	6,542.8	-1,144.7	1,764.2	1,642.9	121.29	14.546		
14,600.0	7,662.0	14,451.5	7,492.0	124.0	0.0	-84.48	6,642.8	-1,145.5	1,766.1	1,643.1	122.99	14.360		
14,700.0	7,662.0	14,551.5	7,492.0	125.7	0.0	-84.48	6,742.8	-1,146.3	1,768.0	1,643.3	124.70	14.178		
14,800.0	7,662.0	14,651.5	7,492.0	127.4	0.0	-84.49	6,842.7	-1,147.1	1,769.9	1,643.5	126.40	14.002		
14,900.0	7,662.0	14,751.4	7,492.0	129.1	0.0	-84.49	6,942.7	-1,148.0	1,771.8	1,643.7	128.11	13.830		
15,000.0	7,662.0	14,851.4	7,492.0	130.8	0.0	-84.50	7,042.7	-1,148.8	1,773.7	1,643.9	129.82	13.663		
15,100.0	7,662.0	14,951.4	7,492.0	132.5	0.0	-84.50	7,142.7	-1,149.6	1,775.6	1,644.0	131.53	13.499		
15,200.0	7,662.0	15,051.4	7,492.0	134.2	0.0	-84.51	7,242.6	-1,150.5	1,777.5	1,644.2	133.24	13.340		
15,300.0	7,662.0	15,151.4	7,492.0	136.0	0.0	-84.52	7,342.6	-1,151.3	1,779.3	1,644.4	134.95	13.185		
15,400.0	7,662.0	15,251.3	7,492.0	137.7	0.0	-84.52	7,442.6	-1,152.1	1,781.2	1,644.6	136.67	13.033		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.0	7,662.0	15,351.3	7,492.0	139.4	0.0	-84.53	7,542.6	-1,152.9	1,783.1	1,644.7	138.38	12.886		
15,600.0	7,662.0	15,451.3	7,492.0	141.1	0.0	-84.53	7,642.6	-1,153.8	1,785.0	1,644.9	140.10	12.741		
15,700.0	7,662.0	15,551.3	7,492.0	142.8	0.0	-84.54	7,742.5	-1,154.6	1,786.9	1,645.1	141.81	12.600		
15,800.0	7,662.0	15,651.3	7,492.0	144.5	0.0	-84.55	7,842.5	-1,155.4	1,788.8	1,645.3	143.53	12.463		
15,900.0	7,662.0	15,751.3	7,492.0	146.3	0.0	-84.55	7,942.5	-1,156.2	1,790.7	1,645.4	145.25	12.328		
16,000.0	7,662.0	15,851.2	7,492.0	148.0	0.0	-84.56	8,042.5	-1,157.1	1,792.6	1,645.6	146.97	12.197		
16,100.0	7,662.0	15,951.2	7,492.0	149.7	0.0	-84.56	8,142.5	-1,157.9	1,794.5	1,645.8	148.69	12.069		
16,200.0	7,662.0	16,051.2	7,492.0	151.4	0.0	-84.57	8,242.4	-1,158.7	1,796.3	1,645.9	150.41	11.943		
16,300.0	7,662.0	16,151.2	7,492.0	153.2	0.0	-84.57	8,342.4	-1,159.6	1,798.2	1,646.1	152.13	11.820		
16,400.0	7,662.0	16,251.2	7,492.0	154.9	0.0	-84.58	8,442.4	-1,160.4	1,800.1	1,646.3	153.85	11.700		
16,500.0	7,662.0	16,351.1	7,492.0	156.6	0.0	-84.59	8,542.4	-1,161.2	1,802.0	1,646.4	155.58	11.583		
16,600.0	7,662.0	16,451.1	7,492.0	158.4	0.0	-84.59	8,642.3	-1,162.0	1,803.9	1,646.6	157.30	11.468		
16,700.0	7,662.0	16,551.1	7,492.0	160.1	0.0	-84.60	8,742.3	-1,162.9	1,805.8	1,646.8	159.02	11.355		
16,800.0	7,662.0	16,651.1	7,492.0	161.8	0.0	-84.60	8,842.3	-1,163.7	1,807.7	1,646.9	160.75	11.245		
16,900.0	7,662.0	16,751.1	7,492.0	163.5	0.0	-84.61	8,942.3	-1,164.5	1,809.6	1,647.1	162.47	11.138		
17,000.0	7,662.0	16,851.1	7,492.0	165.3	0.0	-84.61	9,042.3	-1,165.3	1,811.5	1,647.3	164.20	11.032		
17,100.0	7,662.0	16,951.0	7,492.0	167.0	0.0	-84.62	9,142.2	-1,166.2	1,813.3	1,647.4	165.93	10.929		
17,200.0	7,662.0	17,051.0	7,492.0	168.7	0.0	-84.63	9,242.2	-1,167.0	1,815.2	1,647.6	167.65	10.827		
17,300.0	7,662.0	17,151.0	7,492.0	170.5	0.0	-84.63	9,342.2	-1,167.8	1,817.1	1,647.7	169.38	10.728		
17,400.0	7,662.0	17,251.0	7,492.0	172.2	0.0	-84.64	9,442.2	-1,168.7	1,819.0	1,647.9	171.11	10.631		
17,500.0	7,662.0	17,351.0	7,492.0	173.9	0.0	-84.64	9,542.2	-1,169.5	1,820.9	1,648.1	172.84	10.535		
17,600.0	7,662.0	17,450.9	7,492.0	175.7	0.0	-84.65	9,642.1	-1,170.3	1,822.8	1,648.2	174.57	10.442		
17,700.0	7,662.0	17,550.9	7,492.0	177.4	0.0	-84.65	9,742.1	-1,171.1	1,824.7	1,648.4	176.30	10.350		
17,800.0	7,662.0	17,650.9	7,492.0	179.1	0.0	-84.66	9,842.1	-1,172.0	1,826.6	1,648.5	178.03	10.260		
17,850.8	7,662.0	17,686.9	7,492.0	180.0	0.0	-84.66	9,878.1	-1,172.3	1,827.6	1,648.7	178.84	10.219 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NXH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-90.31	-0.6	-105.0	105.0				
100.0	100.0	100.0	100.0	0.4	0.4	-90.31	-0.6	-105.0	105.0	104.4	0.55	189.588	
200.0	200.0	200.0	200.0	1.0	1.0	-90.31	-0.6	-105.0	105.0	103.4	1.60	65.797	
300.0	300.0	300.0	300.0	1.5	1.5	-90.31	-0.6	-105.0	105.0	102.5	2.45	42.870	
400.0	400.0	400.0	400.0	1.9	1.9	-90.31	-0.6	-105.0	105.0	101.7	3.24	32.435	
500.0	500.0	500.0	500.0	2.3	2.3	-90.31	-0.6	-105.0	105.0	101.0	4.00	26.259	
600.0	600.0	600.0	600.0	2.7	2.7	-90.31	-0.6	-105.0	105.0	100.2	4.75	22.123	
700.0	700.0	700.0	700.0	3.1	3.1	-90.31	-0.6	-105.0	105.0	99.5	5.48	19.141	CC, ES
800.0	800.0	796.7	796.7	3.5	3.4	-90.66	-1.2	-106.5	106.5	100.3	6.27	16.993	
900.0	900.0	893.2	893.1	3.9	4.3	-91.65	-3.2	-110.9	111.2	103.6	7.63	14.579	
1,000.0	1,000.0	989.3	988.8	4.2	5.1	-93.12	-6.5	-118.3	119.0	110.2	8.85	13.456	
1,100.0	1,100.0	1,084.7	1,083.5	4.6	5.8	-94.88	-11.0	-128.6	130.1	120.1	9.96	13.062	
1,200.0	1,200.0	1,179.2	1,177.0	5.0	6.4	-96.72	-16.7	-141.6	144.4	133.4	10.99	13.136	
1,300.0	1,300.0	1,272.5	1,268.7	5.3	6.9	137.68	-23.6	-157.2	163.2	151.4	11.87	13.756	
1,400.0	1,399.8	1,369.7	1,363.9	5.6	7.1	136.81	-31.4	-174.9	186.3	173.7	12.56	14.831	
1,500.0	1,499.5	1,466.4	1,458.7	6.3	7.4	136.69	-39.1	-192.5	211.8	198.5	13.25	15.986	
1,600.0	1,598.7	1,562.3	1,552.7	7.0	7.7	137.07	-46.9	-210.1	239.7	225.8	13.95	17.187	
1,700.0	1,697.7	1,657.7	1,646.2	7.3	7.9	137.96	-54.5	-227.5	269.4	254.8	14.54	18.521	
1,800.0	1,796.6	1,753.2	1,739.7	7.6	8.2	138.73	-62.2	-244.9	299.1	283.9	15.15	19.743	
1,900.0	1,895.6	1,848.6	1,833.2	7.9	8.5	139.36	-69.9	-262.3	328.8	313.0	15.77	20.855	
2,000.0	1,994.5	1,944.0	1,926.7	8.2	8.8	139.89	-77.6	-279.8	358.6	342.2	16.40	21.869	
2,100.0	2,093.4	2,039.4	2,020.2	8.6	9.2	140.33	-85.2	-297.2	388.4	371.3	17.04	22.789	
2,200.0	2,192.4	2,134.8	2,113.7	8.9	9.5	140.72	-92.9	-314.6	418.2	400.5	17.69	23.635	
2,300.0	2,291.3	2,230.2	2,207.2	9.3	9.8	141.05	-100.6	-332.0	448.0	429.7	18.36	24.408	
2,400.0	2,390.3	2,325.7	2,300.7	9.6	10.2	141.34	-108.2	-349.5	477.9	458.8	19.03	25.117	
2,500.0	2,489.2	2,421.1	2,394.2	10.0	10.6	141.60	-115.9	-366.9	507.7	488.0	19.70	25.768	
2,600.0	2,588.2	2,516.5	2,487.7	10.3	10.9	141.82	-123.6	-384.3	537.6	517.2	20.39	26.368	
2,700.0	2,687.1	2,611.9	2,581.2	10.7	11.3	142.03	-131.3	-401.7	567.5	546.4	21.08	26.921	
2,800.0	2,786.1	2,707.3	2,674.7	11.1	11.8	142.21	-138.9	-419.2	597.3	575.6	21.77	27.433	
2,900.0	2,885.0	2,802.7	2,768.2	11.5	12.2	142.38	-146.6	-436.6	627.2	604.7	22.48	27.907	
3,000.0	2,984.0	2,898.2	2,861.7	11.9	12.6	142.53	-154.3	-454.0	657.1	633.9	23.18	28.347	
3,100.0	3,082.9	2,993.6	2,955.2	12.3	13.1	142.67	-162.0	-471.4	687.0	663.1	23.89	28.756	
3,200.0	3,181.9	3,089.0	3,048.7	12.7	13.5	142.79	-169.6	-488.8	716.9	692.3	24.60	29.137	
3,300.0	3,280.8	3,184.4	3,142.2	13.1	14.0	142.91	-177.3	-506.3	746.8	721.4	25.32	29.493	
3,400.0	3,379.8	3,279.8	3,235.7	13.5	14.4	143.02	-185.0	-523.7	776.7	750.6	26.04	29.825	
3,500.0	3,478.7	3,375.2	3,329.2	13.9	14.9	143.11	-192.7	-541.1	806.6	779.8	26.76	30.137	
3,600.0	3,577.7	3,470.7	3,422.7	14.3	15.3	143.21	-200.3	-558.5	836.5	809.0	27.49	30.429	
3,700.0	3,676.6	3,566.1	3,516.2	14.7	15.8	143.29	-208.0	-576.0	866.4	838.1	28.22	30.703	
3,800.0	3,775.6	3,661.5	3,609.7	15.1	16.3	143.37	-215.7	-593.4	896.3	867.3	28.95	30.962	
3,900.0	3,874.5	3,756.9	3,703.1	15.6	16.7	143.45	-223.4	-610.8	926.2	896.5	29.68	31.205	
4,000.0	3,973.5	3,852.3	3,796.6	16.0	17.2	143.52	-231.0	-628.2	956.1	925.7	30.41	31.435	
4,100.0	4,072.4	3,947.7	3,890.1	16.4	17.6	143.58	-238.7	-645.7	986.0	954.8	31.15	31.652	
4,200.0	4,171.4	4,043.2	3,983.6	16.8	18.1	143.65	-246.4	-663.1	1,015.9	984.0	31.89	31.857	
4,300.0	4,270.3	4,138.6	4,077.1	17.2	18.6	143.71	-254.0	-680.5	1,045.8	1,013.2	32.63	32.051	
4,400.0	4,369.3	4,234.0	4,170.6	17.7	19.1	143.76	-261.7	-697.9	1,075.7	1,042.3	33.37	32.235	
4,500.0	4,468.2	4,329.4	4,264.1	18.1	19.5	143.81	-269.4	-715.3	1,105.6	1,071.5	34.11	32.410	
4,600.0	4,567.2	4,424.8	4,357.6	18.5	20.0	143.86	-277.1	-732.8	1,135.5	1,100.7	34.86	32.576	
4,700.0	4,666.1	4,520.2	4,451.1	18.9	20.5	143.91	-284.7	-750.2	1,165.4	1,129.8	35.60	32.735	
4,800.0	4,765.1	4,615.7	4,544.6	19.4	20.9	143.95	-292.4	-767.6	1,195.4	1,159.0	36.35	32.885	
4,900.0	4,864.0	4,711.1	4,638.1	19.8	21.4	144.00	-300.1	-785.0	1,225.3	1,188.2	37.10	33.029	
5,000.0	4,962.9	4,806.5	4,731.6	20.2	21.9	144.04	-307.8	-802.5	1,255.2	1,217.3	37.85	33.166	
5,100.0	5,061.9	4,901.9	4,825.1	20.6	22.3	144.08	-315.4	-819.9	1,285.1	1,246.5	38.60	33.296	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
5,200.0	5,160.8	4,997.3	4,918.6	21.1	22.8	144.11	-323.1	-837.3	1,315.0	1,275.7	39.35	33.421		
5,300.0	5,259.8	5,092.7	5,012.1	21.5	23.3	144.15	-330.8	-854.7	1,344.9	1,304.8	40.10	33.541		
5,400.0	5,358.7	5,188.2	5,105.6	21.9	23.8	144.18	-338.5	-872.2	1,374.9	1,334.0	40.85	33.655		
5,500.0	5,457.7	5,283.6	5,199.1	22.3	24.2	144.21	-346.1	-889.6	1,404.8	1,363.2	41.60	33.765		
5,600.0	5,556.6	5,379.0	5,292.6	22.8	24.7	144.24	-353.8	-907.0	1,434.7	1,392.3	42.36	33.870		
5,700.0	5,655.6	5,474.4	5,386.1	23.2	25.2	144.27	-361.5	-924.4	1,464.6	1,421.5	43.11	33.971		
5,800.0	5,754.5	5,569.8	5,479.6	23.6	25.7	144.30	-369.1	-941.8	1,494.5	1,450.7	43.87	34.067		
5,900.0	5,853.5	5,665.2	5,573.1	24.1	26.1	144.33	-376.8	-959.3	1,524.4	1,479.8	44.63	34.160		
6,000.0	5,952.4	5,760.7	5,666.6	24.5	26.6	144.36	-384.5	-976.7	1,554.4	1,509.0	45.38	34.250		
6,100.0	6,051.4	5,856.1	5,760.1	24.9	27.1	144.38	-392.2	-994.1	1,584.3	1,538.1	46.14	34.336		
6,200.0	6,150.3	5,951.5	5,853.6	25.4	27.6	144.41	-399.8	-1,011.5	1,614.2	1,567.3	46.90	34.419		
6,300.0	6,249.3	6,046.9	5,947.1	25.8	28.0	144.43	-407.5	-1,029.0	1,644.1	1,596.5	47.66	34.498		
6,400.0	6,348.2	6,142.3	6,040.6	26.2	28.5	144.45	-415.2	-1,046.4	1,674.0	1,625.6	48.42	34.575		
6,500.0	6,447.2	6,237.7	6,134.1	26.6	29.0	144.47	-422.9	-1,063.8	1,704.0	1,654.8	49.18	34.649		
6,600.0	6,546.1	6,333.2	6,227.6	27.1	29.4	144.49	-430.5	-1,081.2	1,733.9	1,684.0	49.94	34.721		
6,700.0	6,645.1	6,428.6	6,321.1	27.5	29.9	144.51	-438.2	-1,098.7	1,763.8	1,713.1	50.70	34.790		
6,800.0	6,744.0	6,524.0	6,414.6	27.9	30.4	144.53	-445.9	-1,116.1	1,793.7	1,742.3	51.46	34.856		
6,900.0	6,843.0	6,619.4	6,508.1	28.4	30.9	144.55	-453.6	-1,133.5	1,823.7	1,771.4	52.22	34.920		
7,000.0	6,941.9	6,714.8	6,601.6	28.8	31.3	144.57	-461.2	-1,150.9	1,853.6	1,800.6	52.99	34.983		
7,100.0	7,040.9	6,809.2	6,694.1	29.2	31.8	144.61	-468.1	-1,168.2	1,883.5	1,829.8	53.73	35.055		
7,200.0	7,140.1	6,900.0	6,783.1	29.7	32.3	-140.54	-463.5	-1,184.9	1,913.3	1,858.9	54.41	35.163		
7,300.0	7,237.8	6,992.3	6,871.7	30.0	32.8	-107.43	-444.3	-1,201.9	1,942.1	1,886.9	55.15	35.214		
7,400.0	7,331.2	7,083.9	6,955.5	30.5	33.2	-95.57	-411.2	-1,218.1	1,968.9	1,913.3	55.58	35.422		
7,500.0	7,417.3	7,176.2	7,033.5	30.9	33.5	-89.14	-364.5	-1,233.4	1,993.1	1,937.2	55.85	35.685		
7,600.0	7,493.6	7,269.4	7,103.7	31.1	33.7	-84.98	-305.0	-1,247.5	2,013.8	1,957.8	56.05	35.929		
7,700.0	7,557.7	7,363.8	7,164.2	31.2	33.8	-82.14	-233.8	-1,260.0	2,030.5	1,974.3	56.24	36.104		
7,800.0	7,607.6	7,459.2	7,212.8	31.3	33.9	-80.29	-152.5	-1,270.4	2,042.6	1,986.2	56.47	36.170		
7,900.0	7,642.0	7,555.7	7,247.8	31.2	33.9	-79.23	-63.0	-1,278.3	2,049.8	1,993.0	56.79	36.095		
8,000.0	7,659.6	7,653.0	7,267.7	31.1	33.9	-78.91	31.9	-1,283.5	2,051.9	1,994.7	57.21	35.864		
8,100.0	7,662.0	7,751.3	7,272.0	31.0	33.9	-79.02	130.1	-1,285.8	2,049.4	1,991.6	57.76	35.481		
8,200.0	7,662.0	7,851.3	7,272.0	31.0	34.0	-79.01	230.0	-1,287.4	2,046.1	1,987.6	58.50	34.978		
8,300.0	7,662.0	7,951.2	7,272.0	31.0	34.1	-78.99	329.9	-1,288.9	2,042.9	1,983.4	59.43	34.375		
8,400.0	7,662.0	8,051.2	7,272.0	31.3	34.4	-78.97	429.9	-1,290.4	2,039.6	1,979.1	60.55	33.686		
8,500.0	7,662.0	8,151.1	7,272.0	31.9	34.8	-78.95	529.8	-1,292.0	2,036.4	1,974.5	61.85	32.927		
8,600.0	7,662.0	8,251.0	7,272.0	32.7	35.2	-78.93	629.7	-1,293.5	2,033.1	1,969.8	63.31	32.114		
8,700.0	7,662.0	8,351.0	7,272.0	33.5	35.8	-78.92	729.7	-1,295.1	2,029.9	1,964.9	64.93	31.264		
8,800.0	7,662.0	8,450.9	7,272.0	34.4	36.5	-78.90	829.6	-1,296.6	2,026.6	1,959.9	66.69	30.389		
8,900.0	7,662.0	8,550.9	7,272.0	35.4	37.3	-78.88	929.5	-1,298.2	2,023.4	1,954.8	68.58	29.502		
9,000.0	7,662.0	8,650.8	7,272.0	36.4	38.2	-78.86	1,029.5	-1,299.7	2,020.1	1,949.5	70.60	28.613		
9,100.0	7,662.0	8,750.8	7,272.0	37.5	39.2	-78.84	1,129.4	-1,301.2	2,016.9	1,944.1	72.73	27.731		
9,200.0	7,662.0	8,850.7	7,272.0	38.6	40.2	-78.83	1,229.3	-1,302.8	2,013.6	1,938.7	74.96	26.863		
9,300.0	7,662.0	8,950.7	7,272.0	39.8	41.3	-78.81	1,329.3	-1,304.3	2,010.4	1,933.1	77.28	26.013		
9,400.0	7,662.0	9,050.6	7,272.0	41.0	42.4	-78.79	1,429.2	-1,305.9	2,007.1	1,927.4	79.69	25.186		
9,500.0	7,662.0	9,150.5	7,272.0	42.3	43.6	-78.77	1,529.1	-1,307.4	2,003.9	1,921.7	82.18	24.385		
9,600.0	7,662.0	9,250.5	7,272.0	43.6	44.8	-78.75	1,629.1	-1,309.0	2,000.6	1,915.9	84.74	23.611		
9,700.0	7,662.0	9,350.4	7,272.0	44.9	46.0	-78.73	1,729.0	-1,310.5	1,997.4	1,910.0	87.36	22.865		
9,800.0	7,662.0	9,450.4	7,272.0	46.3	47.3	-78.72	1,828.9	-1,312.0	1,994.2	1,904.1	90.04	22.148		
9,900.0	7,662.0	9,550.3	7,272.0	47.7	48.7	-78.70	1,928.9	-1,313.6	1,990.9	1,898.1	92.77	21.461		
10,000.0	7,662.0	9,650.3	7,272.0	49.1	50.0	-78.68	2,028.8	-1,315.1	1,987.7	1,892.1	95.55	20.802		
10,100.0	7,662.0	9,750.2	7,272.0	50.5	51.4	-78.66	2,128.7	-1,316.7	1,984.4	1,886.0	98.38	20.171		
10,200.0	7,662.0	9,850.2	7,272.0	52.0	52.8	-78.64	2,228.7	-1,318.2	1,981.2	1,879.9	101.25	19.568		
10,300.0	7,662.0	9,950.1	7,272.0	53.4	54.2	-78.62	2,328.6	-1,319.7	1,977.9	1,873.8	104.15	18.991		



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,050.1	7,272.0	54.9	55.7	-78.60	2,428.5	-1,321.3	1,974.7	1,867.6	107.09	18.439		
10,500.0	7,662.0	10,150.0	7,272.0	56.4	57.1	-78.58	2,528.5	-1,322.8	1,971.4	1,861.4	110.06	17.912		
10,600.0	7,662.0	10,249.9	7,272.0	58.0	58.6	-78.57	2,628.4	-1,324.4	1,968.2	1,855.1	113.07	17.408		
10,700.0	7,662.0	10,349.9	7,272.0	59.5	60.1	-78.55	2,728.3	-1,325.9	1,965.0	1,848.9	116.09	16.926		
10,800.0	7,662.0	10,449.8	7,272.0	61.1	61.6	-78.53	2,828.3	-1,327.5	1,961.7	1,842.6	119.15	16.465		
10,900.0	7,662.0	10,549.8	7,272.0	62.6	63.1	-78.51	2,928.2	-1,329.0	1,958.5	1,836.2	122.22	16.024		
11,000.0	7,662.0	10,649.7	7,272.0	64.2	64.7	-78.49	3,028.1	-1,330.5	1,955.2	1,829.9	125.32	15.602		
11,100.0	7,662.0	10,749.7	7,272.0	65.8	66.2	-78.47	3,128.1	-1,332.1	1,952.0	1,823.5	128.43	15.198		
11,200.0	7,662.0	10,849.7	7,272.0	67.4	67.8	-78.46	3,228.0	-1,333.6	1,950.2	1,818.7	131.57	14.822		
11,201.6	7,662.0	10,851.2	7,272.0	67.4	67.8	-78.46	3,229.6	-1,333.7	1,950.2	1,818.6	131.62	14.817		
11,300.0	7,662.0	10,949.6	7,272.0	69.0	69.3	-78.47	3,328.0	-1,335.2	1,951.8	1,817.1	134.73	14.487		
11,400.0	7,662.0	11,049.6	7,272.0	70.6	70.9	-78.49	3,428.0	-1,336.7	1,954.4	1,816.5	137.88	14.175		
11,500.0	7,662.0	11,149.6	7,272.0	72.2	72.5	-78.50	3,527.9	-1,338.3	1,956.9	1,815.9	141.05	13.874		
11,600.0	7,662.0	11,249.5	7,272.0	73.8	74.1	-78.52	3,627.9	-1,339.8	1,959.5	1,815.3	144.23	13.586		
11,700.0	7,662.0	11,349.5	7,272.0	75.4	75.7	-78.53	3,727.8	-1,341.3	1,962.0	1,814.6	147.43	13.309		
11,800.0	7,662.0	11,449.5	7,272.0	77.0	77.3	-78.55	3,827.8	-1,342.9	1,964.6	1,814.0	150.63	13.042		
11,900.0	7,662.0	11,549.4	7,272.0	78.7	78.9	-78.56	3,927.7	-1,344.4	1,967.2	1,813.3	153.86	12.786		
12,000.0	7,662.0	11,649.4	7,272.0	80.3	80.5	-78.58	4,027.7	-1,346.0	1,969.7	1,812.6	157.09	12.539		
12,100.0	7,662.0	11,749.4	7,272.0	81.9	82.2	-78.59	4,127.6	-1,347.5	1,972.3	1,812.0	160.33	12.301		
12,200.0	7,662.0	11,849.3	7,272.0	83.6	83.8	-78.61	4,227.6	-1,349.1	1,974.9	1,811.3	163.58	12.073		
12,300.0	7,662.0	11,949.3	7,272.0	85.2	85.4	-78.62	4,327.5	-1,350.6	1,977.4	1,810.6	166.84	11.852		
12,400.0	7,662.0	12,049.3	7,272.0	86.9	87.1	-78.64	4,427.5	-1,352.1	1,980.0	1,809.9	170.11	11.639		
12,500.0	7,662.0	12,149.2	7,272.0	88.5	88.7	-78.65	4,527.4	-1,353.7	1,982.5	1,809.1	173.39	11.434		
12,600.0	7,662.0	12,249.2	7,272.0	90.2	90.4	-78.67	4,627.4	-1,355.2	1,985.1	1,808.4	176.68	11.236		
12,700.0	7,662.0	12,349.2	7,272.0	91.8	92.0	-78.68	4,727.4	-1,356.8	1,987.7	1,807.7	179.97	11.044		
12,800.0	7,662.0	12,449.1	7,272.0	93.5	93.7	-78.70	4,827.3	-1,358.3	1,990.2	1,807.0	183.27	10.859		
12,900.0	7,662.0	12,549.1	7,272.0	95.2	95.3	-78.71	4,927.3	-1,359.8	1,992.8	1,806.2	186.58	10.681		
13,000.0	7,662.0	12,649.1	7,272.0	96.9	97.0	-78.72	5,027.2	-1,361.4	1,995.3	1,805.5	189.90	10.508		
13,100.0	7,662.0	12,749.0	7,272.0	98.5	98.7	-78.74	5,127.2	-1,362.9	1,997.9	1,804.7	193.21	10.340		
13,200.0	7,662.0	12,849.0	7,272.0	100.2	100.4	-78.75	5,227.1	-1,364.5	2,000.5	1,803.9	196.54	10.178		
13,300.0	7,662.0	12,949.0	7,272.0	101.9	102.0	-78.77	5,327.1	-1,366.0	2,003.0	1,803.2	199.87	10.022		
13,400.0	7,662.0	13,048.9	7,272.0	103.6	103.7	-78.78	5,427.0	-1,367.6	2,005.6	1,802.4	203.21	9.870		
13,500.0	7,662.0	13,148.9	7,272.0	105.3	105.4	-78.80	5,527.0	-1,369.1	2,008.2	1,801.6	206.55	9.722		
13,600.0	7,662.0	13,248.9	7,272.0	107.0	107.1	-78.81	5,626.9	-1,370.6	2,010.7	1,800.8	209.89	9.580		
13,700.0	7,662.0	13,348.8	7,272.0	108.7	108.8	-78.83	5,726.9	-1,372.2	2,013.3	1,800.0	213.25	9.441		
13,800.0	7,662.0	13,448.8	7,272.0	110.3	110.5	-78.84	5,826.8	-1,373.7	2,015.9	1,799.3	216.60	9.307		
13,900.0	7,662.0	13,548.7	7,272.0	112.0	112.2	-78.86	5,926.8	-1,375.3	2,018.4	1,798.5	219.96	9.176		
14,000.0	7,662.0	13,648.7	7,272.0	113.7	113.9	-78.87	6,026.8	-1,376.8	2,021.0	1,797.7	223.32	9.050		
14,100.0	7,662.0	13,748.7	7,272.0	115.4	115.6	-78.88	6,126.7	-1,378.4	2,023.5	1,796.9	226.69	8.927		
14,200.0	7,662.0	13,848.6	7,272.0	117.1	117.3	-78.90	6,226.7	-1,379.9	2,026.1	1,796.1	230.06	8.807		
14,300.0	7,662.0	13,948.6	7,272.0	118.8	119.0	-78.91	6,326.6	-1,381.4	2,028.7	1,795.2	233.43	8.691		
14,400.0	7,662.0	14,048.6	7,272.0	120.5	120.7	-78.93	6,426.6	-1,383.0	2,031.2	1,794.4	236.81	8.578		
14,500.0	7,662.0	14,148.5	7,272.0	122.3	122.4	-78.94	6,526.5	-1,384.5	2,033.8	1,793.6	240.19	8.467		
14,600.0	7,662.0	14,248.5	7,272.0	124.0	124.1	-78.95	6,626.5	-1,386.1	2,036.4	1,792.8	243.57	8.360		
14,700.0	7,662.0	14,348.5	7,272.0	125.7	125.8	-78.97	6,726.4	-1,387.6	2,038.9	1,792.0	246.96	8.256		
14,800.0	7,662.0	14,448.4	7,272.0	127.4	127.5	-78.98	6,826.4	-1,389.2	2,041.5	1,791.1	250.35	8.155		
14,900.0	7,662.0	14,548.4	7,272.0	129.1	129.2	-79.00	6,926.3	-1,390.7	2,044.1	1,790.3	253.74	8.056		
15,000.0	7,662.0	14,648.4	7,272.0	130.8	130.9	-79.01	7,026.3	-1,392.2	2,046.6	1,789.5	257.14	7.959		
15,100.0	7,662.0	14,748.3	7,272.0	132.5	132.6	-79.02	7,126.2	-1,393.8	2,049.2	1,788.7	260.53	7.865		
15,200.0	7,662.0	14,848.3	7,272.0	134.2	134.4	-79.04	7,226.2	-1,395.3	2,051.8	1,787.8	263.93	7.774		
15,300.0	7,662.0	14,948.3	7,272.0	136.0	136.1	-79.05	7,326.2	-1,396.9	2,054.3	1,787.0	267.33	7.684		
15,400.0	7,662.0	15,048.2	7,272.0	137.7	137.8	-79.07	7,426.1	-1,398.4	2,056.9	1,786.1	270.74	7.597		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-1NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.0	7,662.0	15,148.2	7,272.0	139.4	139.5	-79.08	7,526.1	-1,399.9	2,059.5	1,785.3	274.15	7.512		
15,600.0	7,662.0	15,248.2	7,272.0	141.1	141.2	-79.09	7,626.0	-1,401.5	2,062.0	1,784.5	277.55	7.429		
15,700.0	7,662.0	15,348.1	7,272.0	142.8	143.0	-79.11	7,726.0	-1,403.0	2,064.6	1,783.6	280.97	7.348		
15,800.0	7,662.0	15,448.1	7,272.0	144.5	144.7	-79.12	7,825.9	-1,404.6	2,067.2	1,782.8	284.38	7.269		
15,900.0	7,662.0	15,548.1	7,272.0	146.3	146.4	-79.14	7,925.9	-1,406.1	2,069.7	1,781.9	287.79	7.192		
16,000.0	7,662.0	15,648.0	7,272.0	148.0	148.1	-79.15	8,025.8	-1,407.7	2,072.3	1,781.1	291.21	7.116		
16,100.0	7,662.0	15,748.0	7,272.0	149.7	149.9	-79.16	8,125.8	-1,409.2	2,074.8	1,780.2	294.63	7.042		
16,200.0	7,662.0	15,848.0	7,272.0	151.4	151.6	-79.18	8,225.7	-1,410.7	2,077.4	1,779.4	298.05	6.970		
16,300.0	7,662.0	15,947.9	7,272.0	153.2	153.3	-79.19	8,325.7	-1,412.3	2,080.0	1,778.5	301.47	6.899		
16,400.0	7,662.0	16,047.9	7,272.0	154.9	155.0	-79.20	8,425.7	-1,413.8	2,082.5	1,777.7	304.89	6.830		
16,500.0	7,662.0	16,147.9	7,272.0	156.6	156.8	-79.22	8,525.6	-1,415.4	2,085.1	1,776.8	308.32	6.763		
16,600.0	7,662.0	16,247.8	7,272.0	158.4	158.5	-79.23	8,625.6	-1,416.9	2,087.7	1,775.9	311.75	6.697		
16,700.0	7,662.0	16,347.8	7,272.0	160.1	160.2	-79.24	8,725.5	-1,418.5	2,090.2	1,775.1	315.17	6.632		
16,800.0	7,662.0	16,447.8	7,272.0	161.8	162.0	-79.26	8,825.5	-1,420.0	2,092.8	1,774.2	318.60	6.569		
16,900.0	7,662.0	16,547.7	7,272.0	163.5	163.7	-79.27	8,925.4	-1,421.5	2,095.4	1,773.3	322.03	6.507		
17,000.0	7,662.0	16,647.7	7,272.0	165.3	165.4	-79.28	9,025.4	-1,423.1	2,098.0	1,772.5	325.47	6.446		
17,100.0	7,662.0	16,747.7	7,272.0	167.0	167.2	-79.30	9,125.3	-1,424.6	2,100.5	1,771.6	328.90	6.386		
17,200.0	7,662.0	16,847.6	7,272.0	168.7	168.9	-79.31	9,225.3	-1,426.2	2,103.1	1,770.7	332.34	6.328		
17,300.0	7,662.0	16,947.6	7,272.0	170.5	170.6	-79.32	9,325.2	-1,427.7	2,105.7	1,769.9	335.77	6.271		
17,400.0	7,662.0	17,047.6	7,272.0	172.2	172.4	-79.34	9,425.2	-1,429.3	2,108.2	1,769.0	339.21	6.215		
17,500.0	7,662.0	17,147.5	7,272.0	173.9	174.1	-79.35	9,525.1	-1,430.8	2,110.8	1,768.1	342.65	6.160		
17,600.0	7,662.0	17,247.5	7,272.0	175.7	175.8	-79.36	9,625.1	-1,432.3	2,113.4	1,767.3	346.09	6.106		
17,700.0	7,662.0	17,270.0	7,272.0	177.4	176.2	-79.37	9,647.6	-1,432.7	2,117.3	1,769.2	348.19	6.081 SF		
17,800.0	7,662.0	17,270.0	7,272.0	179.1	176.2	-79.37	9,647.6	-1,432.7	2,125.9	1,776.7	349.23	6.087		
17,850.8	7,662.0	17,270.0	7,272.0	180.0	176.2	-79.37	9,647.6	-1,432.7	2,132.0	1,782.6	349.47	6.101		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.34	-0.4	-60.0	60.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.34	-0.4	-60.0	60.0	59.7	0.28	216.407		
200.0	200.0	200.0	200.0	1.0	0.0	-90.34	-0.4	-60.0	60.0	59.2	0.80	75.143		
300.0	300.0	300.0	300.0	1.5	0.0	-90.34	-0.4	-60.0	60.0	58.7	1.22	48.966		
400.0	400.0	400.0	400.0	1.9	0.0	-90.34	-0.4	-60.0	60.0	58.4	1.62	37.050		
500.0	500.0	500.0	500.0	2.3	0.0	-90.34	-0.4	-60.0	60.0	58.0	2.00	29.996		
600.0	600.0	600.0	600.0	2.7	0.0	-90.34	-0.4	-60.0	60.0	57.6	2.37	25.272		
700.0	700.0	700.0	700.0	3.1	0.0	-90.34	-0.4	-60.0	60.0	57.2	2.74	21.866		
800.0	800.0	800.0	800.0	3.5	0.0	-90.34	-0.4	-60.0	60.0	56.9	3.11	19.285		
900.0	900.0	900.0	900.0	3.9	0.0	-90.34	-0.4	-60.0	60.0	56.5	3.48	17.258		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	-90.34	-0.4	-60.0	60.0	56.1	3.84	15.622 CC, ES		
1,100.0	1,100.0	1,098.7	1,098.7	4.6	0.0	-91.62	-1.7	-61.0	61.0	56.8	4.22	14.456		
1,200.0	1,200.0	1,197.2	1,197.1	5.0	0.0	-95.21	-5.8	-64.0	64.3	59.7	4.63	13.876		
1,300.0	1,300.0	1,295.6	1,295.0	5.3	0.0	136.56	-12.6	-68.9	71.5	66.4	5.09	14.048		
1,400.0	1,399.8	1,394.9	1,394.0	5.6	0.0	134.21	-20.4	-74.6	82.2	76.7	5.53	14.863		
1,500.0	1,499.5	1,494.1	1,492.6	6.3	0.0	133.88	-28.1	-80.2	95.5	89.5	5.95	16.054		
1,600.0	1,598.7	1,592.8	1,590.9	7.0	0.0	134.86	-35.8	-85.8	111.1	104.7	6.37	17.446		
1,700.0	1,697.7	1,691.2	1,688.9	7.3	0.0	136.45	-43.5	-91.4	128.4	121.7	6.69	19.183		
1,800.0	1,796.6	1,789.7	1,786.8	7.6	0.0	137.70	-51.1	-97.0	145.8	138.7	7.02	20.775		
1,900.0	1,895.6	1,888.1	1,884.8	7.9	0.0	138.68	-58.8	-102.6	163.2	155.9	7.34	22.223		
2,000.0	1,994.5	1,986.5	1,982.8	8.2	0.0	139.47	-66.5	-108.2	180.7	173.0	7.68	23.539		
2,100.0	2,093.4	2,085.0	2,080.8	8.6	0.0	140.13	-74.2	-113.8	198.2	190.2	8.01	24.737		
2,200.0	2,192.4	2,183.4	2,178.7	8.9	0.0	140.67	-81.8	-119.4	215.7	207.4	8.35	25.830		
2,300.0	2,291.3	2,281.8	2,276.7	9.3	0.0	141.14	-89.5	-125.0	233.3	224.6	8.69	26.828		
2,400.0	2,390.3	2,380.3	2,374.7	9.6	0.0	141.54	-97.2	-130.6	250.8	241.8	9.04	27.741		
2,500.0	2,489.2	2,478.7	2,472.7	10.0	0.0	141.88	-104.9	-136.2	268.4	259.0	9.39	28.579		
2,600.0	2,588.2	2,577.1	2,570.6	10.3	0.0	142.19	-112.5	-141.8	285.9	276.2	9.74	29.349		
2,700.0	2,687.1	2,675.6	2,668.6	10.7	0.0	142.46	-120.2	-147.4	303.5	293.4	10.10	30.058		
2,800.0	2,786.1	2,774.0	2,766.6	11.1	0.0	142.70	-127.9	-153.0	321.1	310.7	10.46	30.713		
2,900.0	2,885.0	2,872.4	2,864.5	11.5	0.0	142.91	-135.6	-158.6	338.7	327.9	10.81	31.319		
3,000.0	2,984.0	2,970.9	2,962.5	11.9	0.0	143.11	-143.3	-164.2	356.3	345.1	11.18	31.881		
3,100.0	3,082.9	3,069.3	3,060.5	12.3	0.0	143.28	-150.9	-169.8	373.9	362.4	11.54	32.403		
3,200.0	3,181.9	3,167.7	3,158.5	12.7	0.0	143.44	-158.6	-175.5	391.5	379.6	11.90	32.889		
3,300.0	3,280.8	3,266.2	3,256.4	13.1	0.0	143.59	-166.3	-181.1	409.1	396.8	12.27	33.342		
3,400.0	3,379.8	3,364.6	3,354.4	13.5	0.0	143.72	-174.0	-186.7	426.7	414.1	12.64	33.766		
3,500.0	3,478.7	3,463.0	3,452.4	13.9	0.0	143.85	-181.6	-192.3	444.3	431.3	13.01	34.162		
3,600.0	3,577.7	3,561.5	3,550.4	14.3	0.0	143.96	-189.3	-197.9	461.9	448.6	13.38	34.533		
3,700.0	3,676.6	3,659.9	3,648.3	14.7	0.0	144.07	-197.0	-203.5	479.5	465.8	13.75	34.882		
3,800.0	3,775.6	3,758.3	3,746.3	15.1	0.0	144.16	-204.7	-209.1	497.2	483.0	14.12	35.210		
3,900.0	3,874.5	3,856.8	3,844.3	15.6	0.0	144.26	-212.3	-214.7	514.8	500.3	14.49	35.519		
4,000.0	3,973.5	3,955.2	3,942.3	16.0	0.0	144.34	-220.0	-220.3	532.4	517.5	14.87	35.811		
4,100.0	4,072.4	4,053.6	4,040.2	16.4	0.0	144.42	-227.7	-225.9	550.0	534.8	15.24	36.086		
4,200.0	4,171.4	4,152.1	4,138.2	16.8	0.0	144.50	-235.4	-231.5	567.6	552.0	15.62	36.347		
4,300.0	4,270.3	4,250.5	4,236.2	17.2	0.0	144.57	-243.0	-237.1	585.2	569.3	15.99	36.593		
4,400.0	4,369.3	4,348.9	4,334.1	17.7	0.0	144.63	-250.7	-242.7	602.9	586.5	16.37	36.827		
4,500.0	4,468.2	4,447.4	4,432.1	18.1	0.0	144.69	-258.4	-248.3	620.5	603.7	16.75	37.049		
4,600.0	4,567.2	4,545.8	4,530.1	18.5	0.0	144.75	-266.1	-253.9	638.1	621.0	17.13	37.260		
4,700.0	4,666.1	4,644.2	4,628.1	18.9	0.0	144.81	-273.7	-259.5	655.7	638.2	17.50	37.461		
4,800.0	4,765.1	4,742.7	4,726.0	19.4	0.0	144.86	-281.4	-265.1	673.4	655.5	17.88	37.652		
4,900.0	4,864.0	4,841.1	4,824.0	19.8	0.0	144.91	-289.1	-270.7	691.0	672.7	18.26	37.834		
5,000.0	4,962.9	4,939.5	4,922.0	20.2	0.0	144.96	-296.8	-276.3	708.6	690.0	18.64	38.008		
5,100.0	5,061.9	5,038.0	5,020.0	20.6	0.0	145.01	-304.4	-281.9	726.2	707.2	19.02	38.174		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,136.4	5,117.9	21.1	0.0	145.05	-312.1	-287.5	743.8	724.4	19.41	38.333		
5,300.0	5,259.8	5,234.8	5,215.9	21.5	0.0	145.09	-319.8	-293.1	761.5	741.7	19.79	38.485		
5,400.0	5,358.7	5,333.3	5,313.9	21.9	0.0	145.13	-327.5	-298.7	779.1	758.9	20.17	38.630		
5,500.0	5,457.7	5,431.7	5,411.9	22.3	0.0	145.17	-335.2	-304.3	796.7	776.2	20.55	38.769		
5,600.0	5,556.6	5,530.1	5,509.8	22.8	0.0	145.20	-342.8	-309.9	814.4	793.4	20.93	38.903		
5,700.0	5,655.6	5,628.6	5,607.8	23.2	0.0	145.24	-350.5	-315.5	832.0	810.7	21.32	39.031		
5,800.0	5,754.5	5,727.0	5,705.8	23.6	0.0	145.27	-358.2	-321.1	849.6	827.9	21.70	39.155		
5,900.0	5,853.5	5,825.4	5,803.7	24.1	0.0	145.30	-365.9	-326.7	867.2	845.1	22.08	39.273		
6,000.0	5,952.4	5,923.9	5,901.7	24.5	0.0	145.33	-373.5	-332.3	884.9	862.4	22.47	39.387		
6,100.0	6,051.4	6,022.3	5,999.7	24.9	0.0	145.36	-381.2	-337.9	902.5	879.6	22.85	39.497		
6,200.0	6,150.3	6,120.7	6,097.7	25.4	0.0	145.39	-388.9	-343.5	920.1	896.9	23.23	39.602		
6,300.0	6,249.3	6,219.2	6,195.6	25.8	0.0	145.42	-396.6	-349.1	937.7	914.1	23.62	39.704		
6,400.0	6,348.2	6,317.6	6,293.6	26.2	0.0	145.44	-404.2	-354.7	955.4	931.4	24.00	39.802		
6,500.0	6,447.2	6,416.0	6,391.6	26.6	0.0	145.47	-411.9	-360.3	973.0	948.6	24.39	39.897		
6,600.0	6,546.1	6,514.5	6,489.6	27.1	0.0	145.49	-419.6	-365.9	990.6	965.9	24.77	39.988		
6,700.0	6,645.1	6,612.9	6,587.5	27.5	0.0	145.52	-427.3	-371.5	1,008.3	983.1	25.16	40.076		
6,800.0	6,744.0	6,711.3	6,685.5	27.9	0.0	145.54	-434.9	-377.1	1,025.9	1,000.3	25.54	40.162		
6,900.0	6,843.0	6,809.8	6,783.5	28.4	0.0	145.56	-442.6	-382.7	1,043.5	1,017.6	25.93	40.244		
7,000.0	6,941.9	6,908.2	6,881.5	28.8	0.0	145.58	-450.3	-388.3	1,061.1	1,034.8	26.32	40.324		
7,100.0	7,040.9	7,006.6	6,979.4	29.2	0.0	145.60	-458.0	-393.9	1,078.8	1,052.1	26.70	40.401		
7,200.0	7,140.1	7,104.9	7,077.3	29.7	0.0	-141.38	-464.7	-399.5	1,096.1	1,068.9	27.12	40.411		
7,300.0	7,237.8	7,204.6	7,176.5	30.0	0.0	-110.28	-458.3	-405.2	1,112.4	1,084.7	27.70	40.162		
7,400.0	7,331.2	7,306.6	7,275.2	30.5	0.0	-100.29	-434.0	-410.9	1,127.2	1,099.2	28.05	40.183		
7,500.0	7,417.3	7,411.0	7,370.2	30.9	0.0	-95.53	-391.4	-416.4	1,140.2	1,111.9	28.28	40.317		
7,600.0	7,493.6	7,517.8	7,457.8	31.1	0.0	-92.81	-330.8	-421.4	1,150.7	1,122.3	28.45	40.452		
7,700.0	7,557.7	7,626.8	7,534.0	31.2	0.0	-91.16	-253.1	-425.9	1,158.6	1,130.1	28.59	40.529		
7,800.0	7,607.6	7,737.8	7,595.1	31.3	0.0	-90.22	-160.8	-429.5	1,163.6	1,134.8	28.73	40.498		
7,900.0	7,642.0	7,850.1	7,637.7	31.2	0.0	-89.81	-57.1	-432.0	1,165.3	1,136.4	28.90	40.319		
8,000.0	7,659.6	7,963.1	7,659.4	31.1	0.0	-89.83	53.7	-433.4	1,163.8	1,134.7	29.12	39.968		
8,100.0	7,662.0	8,069.4	7,662.0	31.0	0.0	-90.00	159.8	-433.7	1,159.5	1,130.1	29.40	39.441		
8,200.0	7,662.0	8,169.3	7,662.0	31.0	0.0	-90.00	259.7	-433.8	1,154.8	1,125.0	29.78	38.774		
8,300.0	7,662.0	8,269.1	7,662.0	31.0	0.0	-90.00	359.6	-433.9	1,150.0	1,119.8	30.27	37.995		
8,400.0	7,662.0	8,369.0	7,662.0	31.3	0.0	-90.00	459.5	-434.0	1,145.3	1,114.4	30.85	37.125		
8,500.0	7,662.0	8,468.9	7,662.0	31.9	0.0	-90.00	559.4	-434.1	1,140.5	1,109.0	31.52	36.184		
8,600.0	7,662.0	8,568.8	7,662.0	32.7	0.0	-90.00	659.2	-434.2	1,135.8	1,103.5	32.28	35.190		
8,700.0	7,662.0	8,668.7	7,662.0	33.5	0.0	-90.00	759.1	-434.3	1,131.1	1,098.0	33.11	34.160		
8,800.0	7,662.0	8,768.6	7,662.0	34.4	0.0	-90.00	859.0	-434.4	1,126.3	1,092.3	34.02	33.110		
8,900.0	7,662.0	8,868.5	7,662.0	35.4	0.0	-90.00	958.9	-434.6	1,121.6	1,086.6	34.99	32.053		
9,000.0	7,662.0	8,968.4	7,662.0	36.4	0.0	-90.00	1,058.8	-434.7	1,116.9	1,080.8	36.03	31.000		
9,100.0	7,662.0	9,068.2	7,662.0	37.5	0.0	-90.00	1,158.7	-434.8	1,112.1	1,075.0	37.12	29.961		
9,200.0	7,662.0	9,168.1	7,662.0	38.6	0.0	-90.00	1,258.6	-434.9	1,107.4	1,069.1	38.26	28.941		
9,300.0	7,662.0	9,268.0	7,662.0	39.8	0.0	-90.00	1,358.5	-435.0	1,102.6	1,063.2	39.45	27.948		
9,400.0	7,662.0	9,367.9	7,662.0	41.0	0.0	-90.00	1,458.3	-435.1	1,097.9	1,057.2	40.69	26.984		
9,500.0	7,662.0	9,467.8	7,662.0	42.3	0.0	-90.00	1,558.2	-435.2	1,093.2	1,051.2	41.96	26.052		
9,600.0	7,662.0	9,567.7	7,662.0	43.6	0.0	-90.00	1,658.1	-435.3	1,088.4	1,045.1	43.27	25.155		
9,700.0	7,662.0	9,667.6	7,662.0	44.9	0.0	-90.00	1,758.0	-435.4	1,083.7	1,039.1	44.61	24.292		
9,800.0	7,662.0	9,767.5	7,662.0	46.3	0.0	-90.00	1,857.9	-435.6	1,078.9	1,033.0	45.98	23.465		
9,900.0	7,662.0	9,867.3	7,662.0	47.7	0.0	-90.00	1,957.8	-435.7	1,074.2	1,026.8	47.38	22.672		
10,000.0	7,662.0	9,967.2	7,662.0	49.1	0.0	-90.00	2,057.7	-435.8	1,069.5	1,020.7	48.80	21.914		
10,100.0	7,662.0	10,067.1	7,662.0	50.5	0.0	-90.00	2,157.6	-435.9	1,064.7	1,014.5	50.25	21.189		
10,200.0	7,662.0	10,167.0	7,662.0	52.0	0.0	-90.00	2,257.4	-436.0	1,060.0	1,008.3	51.72	20.496		
10,300.0	7,662.0	10,266.9	7,662.0	53.4	0.0	-90.00	2,357.3	-436.1	1,055.2	1,002.0	53.20	19.835		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,366.8	7,662.0	54.9	0.0	-90.00	2,457.2	-436.2	1,050.5	995.8	54.70	19.203		
10,500.0	7,662.0	10,466.7	7,662.0	56.4	0.0	-90.00	2,557.1	-436.3	1,045.8	989.5	56.22	18.600		
10,600.0	7,662.0	10,566.6	7,662.0	58.0	0.0	-90.00	2,657.0	-436.5	1,041.0	983.3	57.76	18.024		
10,700.0	7,662.0	10,666.4	7,662.0	59.5	0.0	-90.00	2,756.9	-436.6	1,036.3	977.0	59.31	17.473		
10,800.0	7,662.0	10,766.3	7,662.0	61.1	0.0	-90.00	2,856.8	-436.7	1,031.5	970.7	60.87	16.948		
10,900.0	7,662.0	10,866.2	7,662.0	62.6	0.0	-90.00	2,956.7	-436.8	1,026.8	964.4	62.44	16.445		
11,000.0	7,662.0	10,966.1	7,662.0	64.2	0.0	-90.00	3,056.5	-436.9	1,022.1	958.0	64.02	15.964		
11,100.0	7,662.0	11,066.0	7,662.0	65.8	0.0	-90.00	3,156.4	-437.0	1,017.3	951.7	65.62	15.504		
11,200.0	7,662.0	11,165.9	7,662.0	67.4	0.0	-90.00	3,256.4	-437.1	1,014.1	946.9	67.22	15.086		
11,255.5	7,662.0	11,221.4	7,662.0	68.3	0.0	-90.00	3,311.9	-437.2	1,013.7	945.6	68.11	14.883		
11,300.0	7,662.0	11,265.9	7,662.0	69.0	0.0	-90.00	3,356.4	-437.2	1,014.3	945.5	68.83	14.737		
11,400.0	7,662.0	11,365.9	7,662.0	70.6	0.0	-90.00	3,456.4	-437.3	1,015.5	945.0	70.42	14.420		
11,500.0	7,662.0	11,465.9	7,662.0	72.2	0.0	-90.00	3,556.4	-437.5	1,016.6	944.6	72.02	14.116		
11,600.0	7,662.0	11,565.9	7,662.0	73.8	0.0	-90.00	3,656.4	-437.6	1,017.8	944.2	73.63	13.823		
11,700.0	7,662.0	11,665.9	7,662.0	75.4	0.0	-90.00	3,756.3	-437.7	1,019.0	943.8	75.25	13.542		
11,800.0	7,662.0	11,765.9	7,662.0	77.0	0.0	-90.00	3,856.3	-437.8	1,020.2	943.3	76.87	13.272		
11,900.0	7,662.0	11,865.9	7,662.0	78.7	0.0	-90.00	3,956.3	-437.9	1,021.4	942.9	78.50	13.012		
12,000.0	7,662.0	11,965.9	7,662.0	80.3	0.0	-90.00	4,056.3	-438.0	1,022.5	942.4	80.13	12.761		
12,100.0	7,662.0	12,065.9	7,662.0	81.9	0.0	-90.00	4,156.3	-438.1	1,023.7	942.0	81.77	12.520		
12,200.0	7,662.0	12,165.9	7,662.0	83.6	0.0	-90.00	4,256.3	-438.2	1,024.9	941.5	83.41	12.287		
12,300.0	7,662.0	12,265.9	7,662.0	85.2	0.0	-90.00	4,356.3	-438.3	1,026.1	941.0	85.06	12.063		
12,400.0	7,662.0	12,365.9	7,662.0	86.9	0.0	-90.00	4,456.3	-438.5	1,027.3	940.6	86.71	11.847		
12,500.0	7,662.0	12,465.9	7,662.0	88.5	0.0	-90.00	4,556.3	-438.6	1,028.5	940.1	88.37	11.638		
12,600.0	7,662.0	12,565.8	7,662.0	90.2	0.0	-90.00	4,656.3	-438.7	1,029.6	939.6	90.03	11.436		
12,700.0	7,662.0	12,665.8	7,662.0	91.8	0.0	-90.00	4,756.3	-438.8	1,030.8	939.1	91.70	11.242		
12,800.0	7,662.0	12,765.8	7,662.0	93.5	0.0	-90.00	4,856.3	-438.9	1,032.0	938.6	93.36	11.054		
12,900.0	7,662.0	12,865.8	7,662.0	95.2	0.0	-90.00	4,956.3	-439.0	1,033.2	938.1	95.03	10.872		
13,000.0	7,662.0	12,965.8	7,662.0	96.9	0.0	-90.00	5,056.3	-439.1	1,034.4	937.7	96.71	10.696		
13,100.0	7,662.0	13,065.8	7,662.0	98.5	0.0	-90.00	5,156.2	-439.2	1,035.5	937.2	98.39	10.525		
13,200.0	7,662.0	13,165.8	7,662.0	100.2	0.0	-90.00	5,256.2	-439.3	1,036.7	936.7	100.07	10.360		
13,300.0	7,662.0	13,265.8	7,662.0	101.9	0.0	-90.00	5,356.2	-439.5	1,037.9	936.2	101.75	10.201		
13,400.0	7,662.0	13,365.8	7,662.0	103.6	0.0	-90.00	5,456.2	-439.6	1,039.1	935.7	103.43	10.046		
13,500.0	7,662.0	13,465.8	7,662.0	105.3	0.0	-90.00	5,556.2	-439.7	1,040.3	935.2	105.12	9.896		
13,600.0	7,662.0	13,565.8	7,662.0	107.0	0.0	-90.00	5,656.2	-439.8	1,041.5	934.6	106.81	9.750		
13,700.0	7,662.0	13,665.8	7,662.0	108.7	0.0	-90.00	5,756.2	-439.9	1,042.6	934.1	108.50	9.609		
13,800.0	7,662.0	13,765.8	7,662.0	110.3	0.0	-90.00	5,856.2	-440.0	1,043.8	933.6	110.20	9.472		
13,900.0	7,662.0	13,865.8	7,662.0	112.0	0.0	-90.00	5,956.2	-440.1	1,045.0	933.1	111.90	9.339		
14,000.0	7,662.0	13,965.8	7,662.0	113.7	0.0	-90.00	6,056.2	-440.2	1,046.2	932.6	113.59	9.210		
14,100.0	7,662.0	14,065.7	7,662.0	115.4	0.0	-90.00	6,156.2	-440.3	1,047.4	932.1	115.29	9.084		
14,200.0	7,662.0	14,165.7	7,662.0	117.1	0.0	-90.00	6,256.2	-440.5	1,048.5	931.5	117.00	8.962		
14,300.0	7,662.0	14,265.7	7,662.0	118.8	0.0	-90.00	6,356.2	-440.6	1,049.7	931.0	118.70	8.844		
14,400.0	7,662.0	14,365.7	7,662.0	120.5	0.0	-90.00	6,456.2	-440.7	1,050.9	930.5	120.40	8.728		
14,500.0	7,662.0	14,465.7	7,662.0	122.3	0.0	-90.00	6,556.2	-440.8	1,052.1	930.0	122.11	8.616		
14,600.0	7,662.0	14,565.7	7,662.0	124.0	0.0	-90.00	6,656.1	-440.9	1,053.3	929.5	123.82	8.507		
14,700.0	7,662.0	14,665.7	7,662.0	125.7	0.0	-90.00	6,756.1	-441.0	1,054.5	928.9	125.53	8.400		
14,800.0	7,662.0	14,765.7	7,662.0	127.4	0.0	-90.00	6,856.1	-441.1	1,055.6	928.4	127.24	8.296		
14,900.0	7,662.0	14,865.7	7,662.0	129.1	0.0	-90.00	6,956.1	-441.2	1,056.8	927.9	128.95	8.195		
15,000.0	7,662.0	14,965.7	7,662.0	130.8	0.0	-90.00	7,056.1	-441.3	1,058.0	927.3	130.67	8.097		
15,100.0	7,662.0	15,065.7	7,662.0	132.5	0.0	-90.00	7,156.1	-441.5	1,059.2	926.8	132.38	8.001		
15,200.0	7,662.0	15,165.7	7,662.0	134.2	0.0	-90.00	7,256.1	-441.6	1,060.4	926.3	134.10	7.907		
15,300.0	7,662.0	15,265.7	7,662.0	136.0	0.0	-90.00	7,356.1	-441.7	1,061.5	925.7	135.81	7.816		
15,400.0	7,662.0	15,365.7	7,662.0	137.7	0.0	-90.00	7,456.1	-441.8	1,062.7	925.2	137.53	7.727		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.0	7,662.0	15,465.6	7,662.0	139.4	0.0	-90.00	7,556.1	-441.9	1,063.9	924.7	139.25	7.640		
15,600.0	7,662.0	15,565.6	7,662.0	141.1	0.0	-90.00	7,656.1	-442.0	1,065.1	924.1	140.97	7.555		
15,700.0	7,662.0	15,665.6	7,662.0	142.8	0.0	-90.00	7,756.1	-442.1	1,066.3	923.6	142.69	7.473		
15,800.0	7,662.0	15,765.6	7,662.0	144.5	0.0	-90.00	7,856.1	-442.2	1,067.5	923.0	144.41	7.392		
15,900.0	7,662.0	15,865.6	7,662.0	146.3	0.0	-90.00	7,956.1	-442.3	1,068.6	922.5	146.14	7.313		
16,000.0	7,662.0	15,965.6	7,662.0	148.0	0.0	-90.00	8,056.0	-442.5	1,069.8	922.0	147.86	7.235		
16,100.0	7,662.0	16,065.6	7,662.0	149.7	0.0	-90.00	8,156.0	-442.6	1,071.0	921.4	149.58	7.160		
16,200.0	7,662.0	16,165.6	7,662.0	151.4	0.0	-90.00	8,256.0	-442.7	1,072.2	920.9	151.31	7.086		
16,300.0	7,662.0	16,265.6	7,662.0	153.2	0.0	-90.00	8,356.0	-442.8	1,073.4	920.3	153.04	7.014		
16,400.0	7,662.0	16,365.6	7,662.0	154.9	0.0	-90.00	8,456.0	-442.9	1,074.5	919.8	154.76	6.943		
16,500.0	7,662.0	16,465.6	7,662.0	156.6	0.0	-90.00	8,556.0	-443.0	1,075.7	919.2	156.49	6.874		
16,600.0	7,662.0	16,565.6	7,662.0	158.4	0.0	-90.00	8,656.0	-443.1	1,076.9	918.7	158.22	6.806		
16,700.0	7,662.0	16,665.6	7,662.0	160.1	0.0	-90.00	8,756.0	-443.2	1,078.1	918.1	159.95	6.740		
16,800.0	7,662.0	16,765.6	7,662.0	161.8	0.0	-90.00	8,856.0	-443.4	1,079.3	917.6	161.68	6.675		
16,900.0	7,662.0	16,865.6	7,662.0	163.5	0.0	-90.00	8,956.0	-443.5	1,080.4	917.0	163.41	6.612		
17,000.0	7,662.0	16,965.6	7,662.0	165.3	0.0	-90.00	9,056.0	-443.6	1,081.6	916.5	165.14	6.550		
17,100.0	7,662.0	17,065.6	7,662.0	167.0	0.0	-90.00	9,156.0	-443.7	1,082.8	915.9	166.87	6.489		
17,200.0	7,662.0	17,165.6	7,662.0	168.7	0.0	-90.00	9,256.0	-443.8	1,084.0	915.4	168.60	6.429		
17,300.0	7,662.0	17,265.6	7,662.0	170.5	0.0	-90.00	9,356.0	-443.9	1,085.2	914.8	170.33	6.371		
17,400.0	7,662.0	17,365.6	7,662.0	172.2	0.0	-90.00	9,455.9	-444.0	1,086.4	914.3	172.07	6.314		
17,500.0	7,662.0	17,465.6	7,662.0	173.9	0.0	-90.00	9,555.9	-444.1	1,087.5	913.7	173.80	6.257		
17,600.0	7,662.0	17,565.6	7,662.0	175.7	0.0	-90.00	9,655.9	-444.2	1,088.7	913.2	175.53	6.202		
17,700.0	7,662.0	17,665.6	7,662.0	177.4	0.0	-90.00	9,755.9	-444.4	1,089.9	912.6	177.27	6.148		
17,800.0	7,662.0	17,765.6	7,662.0	179.1	0.0	-90.00	9,855.9	-444.5	1,091.1	912.1	179.00	6.095		
17,850.8	7,662.0	17,799.6	7,662.0	180.0	0.0	-90.00	9,890.0	-444.5	1,091.8	912.0	179.76	6.074 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.37	-0.1	-15.0	15.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.37	-0.1	-15.0	15.0	14.7	0.28	54.109		
200.0	200.0	200.0	200.0	1.0	0.0	-90.37	-0.1	-15.0	15.0	14.2	0.80	18.789		
300.0	300.0	300.0	300.0	1.5	0.0	-90.37	-0.1	-15.0	15.0	13.8	1.23	12.244		
400.0	400.0	400.0	400.0	1.9	0.0	-90.37	-0.1	-15.0	15.0	13.4	1.62	9.265		
500.0	500.0	500.0	500.0	2.3	0.0	-90.37	-0.1	-15.0	15.0	13.0	2.00	7.501		
600.0	600.0	600.0	600.0	2.7	0.0	-90.37	-0.1	-15.0	15.0	12.6	2.37	6.320		
700.0	700.0	700.0	700.0	3.1	0.0	-90.37	-0.1	-15.0	15.0	12.3	2.74	5.468		
800.0	800.0	800.0	800.0	3.5	0.0	-90.37	-0.1	-15.0	15.0	11.9	3.11	4.823		
900.0	900.0	900.0	900.0	3.9	0.0	-90.37	-0.1	-15.0	15.0	11.5	3.48	4.316		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	-90.37	-0.1	-15.0	15.0	11.2	3.84	3.907		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	0.0	-90.37	-0.1	-15.0	15.0	10.8	4.20	3.570		
1,200.0	1,200.0	1,200.0	1,200.0	5.0	0.0	-90.37	-0.1	-15.0	15.0	10.4	4.56	3.286 CC, ES		
1,300.0	1,300.0	1,300.0	1,300.0	5.3	0.0	149.10	-0.1	-15.0	16.5	11.5	4.96	3.322		
1,400.0	1,399.8	1,400.3	1,400.3	5.6	0.0	152.96	-1.5	-13.9	19.9	14.4	5.52	3.604		
1,500.0	1,499.5	1,500.8	1,500.6	6.3	0.0	153.34	-5.7	-10.8	24.0	17.9	6.09	3.947		
1,600.0	1,598.7	1,601.3	1,600.8	7.0	0.0	151.69	-12.8	-5.5	28.8	22.2	6.60	4.369		
1,700.0	1,697.7	1,701.2	1,700.1	7.3	0.0	149.94	-21.3	0.9	34.3	27.5	6.87	4.996		
1,800.0	1,796.6	1,801.0	1,799.3	7.6	0.0	148.70	-29.9	7.3	39.9	32.7	7.16	5.571		
1,900.0	1,895.6	1,900.9	1,898.6	7.9	0.0	147.77	-38.4	13.7	45.5	38.0	7.46	6.092		
2,000.0	1,994.5	2,000.7	1,997.9	8.2	0.0	147.04	-47.0	20.2	51.1	43.3	7.78	6.565		
2,100.0	2,093.4	2,100.6	2,097.1	8.6	0.0	146.46	-55.6	26.6	56.6	48.5	8.10	6.994		
2,200.0	2,192.4	2,200.4	2,196.4	8.9	0.0	145.98	-64.1	33.0	62.2	53.8	8.43	7.384		
2,300.0	2,291.3	2,300.2	2,295.7	9.3	0.0	145.58	-72.7	39.4	67.8	59.1	8.77	7.739		
2,400.0	2,390.3	2,400.1	2,394.9	9.6	0.0	145.24	-81.2	45.8	73.4	64.3	9.11	8.063		
2,500.0	2,489.2	2,499.9	2,494.2	10.0	0.0	144.95	-89.8	52.2	79.0	69.6	9.46	8.359		
2,600.0	2,588.2	2,599.8	2,593.5	10.3	0.0	144.70	-98.3	58.6	84.6	74.8	9.81	8.631		
2,700.0	2,687.1	2,699.6	2,692.7	10.7	0.0	144.48	-106.9	65.1	90.2	80.1	10.16	8.881		
2,800.0	2,786.1	2,799.5	2,792.0	11.1	0.0	144.28	-115.5	71.5	95.9	85.3	10.52	9.110		
2,900.0	2,885.0	2,899.3	2,891.3	11.5	0.0	144.11	-124.0	77.9	101.5	90.6	10.88	9.322		
3,000.0	2,984.0	2,999.1	2,990.5	11.9	0.0	143.95	-132.6	84.3	107.1	95.8	11.25	9.518		
3,100.0	3,082.9	3,099.0	3,089.8	12.3	0.0	143.81	-141.1	90.7	112.7	101.1	11.62	9.700		
3,200.0	3,181.9	3,198.8	3,189.1	12.7	0.0	143.68	-149.7	97.1	118.3	106.3	11.99	9.869		
3,300.0	3,280.8	3,298.7	3,288.3	13.1	0.0	143.57	-158.2	103.6	123.9	111.5	12.36	10.026		
3,400.0	3,379.8	3,398.5	3,387.6	13.5	0.0	143.46	-166.8	110.0	129.5	116.8	12.73	10.172		
3,500.0	3,478.7	3,498.4	3,486.9	13.9	0.0	143.37	-175.4	116.4	135.1	122.0	13.11	10.309		
3,600.0	3,577.7	3,598.2	3,586.2	14.3	0.0	143.28	-183.9	122.8	140.7	127.2	13.48	10.437		
3,700.0	3,676.6	3,698.0	3,685.4	14.7	0.0	143.20	-192.5	129.2	146.3	132.5	13.86	10.557		
3,800.0	3,775.6	3,797.9	3,784.7	15.1	0.0	143.12	-201.0	135.6	152.0	137.7	14.24	10.670		
3,900.0	3,874.5	3,897.7	3,884.0	15.6	0.0	143.05	-209.6	142.0	157.6	142.9	14.62	10.776		
4,000.0	3,973.5	3,997.6	3,983.2	16.0	0.0	142.98	-218.1	148.5	163.2	148.2	15.00	10.876		
4,100.0	4,072.4	4,097.4	4,082.5	16.4	0.0	142.92	-226.7	154.9	168.8	153.4	15.39	10.970		
4,200.0	4,171.4	4,197.2	4,181.8	16.8	0.0	142.86	-235.3	161.3	174.4	158.6	15.77	11.059		
4,300.0	4,270.3	4,297.1	4,281.0	17.2	0.0	142.81	-243.8	167.7	180.0	163.9	16.16	11.143		
4,400.0	4,369.3	4,396.9	4,380.3	17.7	0.0	142.76	-252.4	174.1	185.6	169.1	16.54	11.222		
4,500.0	4,468.2	4,496.8	4,479.6	18.1	0.0	142.71	-260.9	180.5	191.2	174.3	16.93	11.298		
4,600.0	4,567.2	4,596.6	4,578.8	18.5	0.0	142.67	-269.5	186.9	196.9	179.5	17.31	11.370		
4,700.0	4,666.1	4,696.5	4,678.1	18.9	0.0	142.63	-278.1	193.4	202.5	184.8	17.70	11.438		
4,800.0	4,765.1	4,796.3	4,777.4	19.4	0.0	142.59	-286.6	199.8	208.1	190.0	18.09	11.503		
4,900.0	4,864.0	4,896.1	4,876.6	19.8	0.0	142.55	-295.2	206.2	213.7	195.2	18.48	11.565		
5,000.0	4,962.9	4,996.0	4,975.9	20.2	0.0	142.51	-303.7	212.6	219.3	200.4	18.87	11.623		
5,100.0	5,061.9	5,095.8	5,075.2	20.6	0.0	142.48	-312.3	219.0	224.9	205.7	19.26	11.680		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NBH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,160.8	5,195.7	5,174.4	21.1	0.0	142.44	-320.8	225.4	230.5	210.9	19.65	11.733	
5,300.0	5,259.8	5,295.5	5,273.7	21.5	0.0	142.41	-329.4	231.9	236.1	216.1	20.04	11.785	
5,400.0	5,358.7	5,395.4	5,373.0	21.9	0.0	142.38	-338.0	238.3	241.8	221.3	20.43	11.834	
5,500.0	5,457.7	5,495.2	5,472.2	22.3	0.0	142.36	-346.5	244.7	247.4	226.6	20.82	11.881	
5,600.0	5,556.6	5,595.0	5,571.5	22.8	0.0	142.33	-355.1	251.1	253.0	231.8	21.21	11.926	
5,700.0	5,655.6	5,694.9	5,670.8	23.2	0.0	142.30	-363.6	257.5	258.6	237.0	21.61	11.970	
5,800.0	5,754.5	5,794.7	5,770.0	23.6	0.0	142.28	-372.2	263.9	264.2	242.2	22.00	12.011	
5,900.0	5,853.5	5,894.6	5,869.3	24.1	0.0	142.25	-380.7	270.3	269.8	247.4	22.39	12.051	
6,000.0	5,952.4	5,994.4	5,968.6	24.5	0.0	142.23	-389.3	276.8	275.4	252.7	22.78	12.090	
6,100.0	6,051.4	6,094.3	6,067.8	24.9	0.0	142.21	-397.9	283.2	281.1	257.9	23.18	12.127	
6,200.0	6,150.3	6,194.1	6,167.1	25.4	0.0	142.19	-406.4	289.6	286.7	263.1	23.57	12.162	
6,300.0	6,249.3	6,293.9	6,266.4	25.8	0.0	142.17	-415.0	296.0	292.3	268.3	23.96	12.196	
6,400.0	6,348.2	6,393.8	6,365.6	26.2	0.0	142.15	-423.5	302.4	297.9	273.5	24.36	12.230	
6,500.0	6,447.2	6,493.6	6,464.9	26.6	0.0	142.13	-432.1	308.8	303.5	278.8	24.75	12.261	
6,600.0	6,546.1	6,593.5	6,564.2	27.1	0.0	142.11	-440.6	315.2	309.1	284.0	25.15	12.292	
6,700.0	6,645.1	6,693.3	6,663.5	27.5	0.0	142.09	-449.2	321.7	314.7	289.2	25.54	12.322	
6,800.0	6,744.0	6,793.1	6,762.7	27.9	0.0	142.08	-457.8	328.1	320.4	294.4	25.94	12.351	
6,900.0	6,843.0	6,893.3	6,864.6	28.4	0.0	143.14	-460.4	334.6	325.7	299.4	26.29	12.387	
7,000.0	6,941.9	6,993.2	6,961.1	28.8	0.0	147.00	-446.2	340.7	331.1	304.6	26.50	12.492	
7,100.0	7,040.9	7,091.4	7,044.9	29.2	0.0	152.68	-419.4	345.8	339.8	313.2	26.59	12.780	
7,200.0	7,140.1	7,191.5	7,116.7	29.7	0.0	-128.64	-384.2	350.1	353.6	327.0	26.61	13.288	
7,300.0	7,237.8	7,288.1	7,180.0	30.0	0.0	-92.37	-341.5	353.8	370.2	343.6	26.61	13.913	
7,400.0	7,331.2	7,311.9	7,235.2	30.5	0.0	-77.97	-292.7	356.9	387.9	361.7	26.19	14.811	
7,500.0	7,417.3	7,383.6	7,282.4	30.9	0.0	-69.54	-238.9	359.5	405.0	379.4	25.58	15.830	
7,600.0	7,493.6	7,450.0	7,319.9	31.1	0.0	-63.94	-184.1	361.4	420.3	395.5	24.88	16.897	
7,700.0	7,557.7	7,522.5	7,353.2	31.2	0.0	-59.83	-119.8	363.0	432.9	408.6	24.30	17.812	
7,800.0	7,607.6	7,590.5	7,376.9	31.3	0.0	-57.07	-56.1	364.0	442.1	418.3	23.80	18.571	
7,900.0	7,642.0	7,650.0	7,391.3	31.2	0.0	-55.42	1.6	364.5	447.4	424.0	23.45	19.078	
8,000.0	7,659.6	7,725.0	7,400.9	31.1	0.0	-54.52	75.9	364.5	448.4	425.0	23.44	19.128	
8,100.0	7,662.0	7,807.2	7,402.0	31.0	0.0	-54.29	158.1	363.8	445.7	422.1	23.61	18.881	
8,200.0	7,662.0	7,907.1	7,402.0	31.0	0.0	-53.99	258.0	363.0	442.4	418.6	23.81	18.580	
8,300.0	7,662.0	8,007.0	7,402.0	31.0	0.0	-53.68	357.9	362.2	439.2	415.1	24.11	18.219	
8,400.0	7,662.0	8,107.0	7,402.0	31.3	0.0	-53.36	457.9	361.4	435.9	411.5	24.48	17.806	
8,500.0	7,662.0	8,206.9	7,402.0	31.9	0.0	-53.05	557.8	360.5	432.7	407.8	24.94	17.353	
8,600.0	7,662.0	8,306.8	7,402.0	32.7	0.0	-52.72	657.7	359.7	429.5	404.0	25.46	16.868	
8,700.0	7,662.0	8,406.7	7,402.0	33.5	0.0	-52.40	757.6	358.9	426.3	400.3	26.06	16.362	
8,800.0	7,662.0	8,506.6	7,402.0	34.4	0.0	-52.06	857.5	358.1	423.1	396.4	26.71	15.844	
8,900.0	7,662.0	8,606.6	7,402.0	35.4	0.0	-51.73	957.4	357.2	420.0	392.6	27.41	15.321	
9,000.0	7,662.0	8,706.5	7,402.0	36.4	0.0	-51.38	1,057.3	356.4	416.8	388.6	28.16	14.800	
9,100.0	7,662.0	8,806.4	7,402.0	37.5	0.0	-51.04	1,157.3	355.6	413.7	384.7	28.96	14.286	
9,200.0	7,662.0	8,906.3	7,402.0	38.6	0.0	-50.68	1,257.2	354.8	410.5	380.8	29.79	13.782	
9,300.0	7,662.0	9,006.2	7,402.0	39.8	0.0	-50.32	1,357.1	353.9	407.4	376.8	30.65	13.293	
9,400.0	7,662.0	9,106.2	7,402.0	41.0	0.0	-49.96	1,457.0	353.1	404.3	372.8	31.54	12.820	
9,500.0	7,662.0	9,206.1	7,402.0	42.3	0.0	-49.59	1,556.9	352.3	401.3	368.8	32.46	12.364	
9,600.0	7,662.0	9,306.0	7,402.0	43.6	0.0	-49.22	1,656.8	351.5	398.2	364.8	33.39	11.926	
9,700.0	7,662.0	9,405.9	7,402.0	44.9	0.0	-48.83	1,756.8	350.6	395.2	360.8	34.34	11.508	
9,800.0	7,662.0	9,505.8	7,402.0	46.3	0.0	-48.45	1,856.7	349.8	392.2	356.9	35.30	11.108	
9,900.0	7,662.0	9,605.8	7,402.0	47.7	0.0	-48.05	1,956.6	349.0	389.2	352.9	36.28	10.728	
10,000.0	7,662.0	9,705.7	7,402.0	49.1	0.0	-47.66	2,056.5	348.2	386.2	348.9	37.26	10.365	
10,100.0	7,662.0	9,805.6	7,402.0	50.5	0.0	-47.25	2,156.4	347.3	383.2	345.0	38.24	10.020	
10,200.0	7,662.0	9,905.5	7,402.0	52.0	0.0	-46.84	2,256.3	346.5	380.3	341.0	39.23	9.692	
10,300.0	7,662.0	10,005.4	7,402.0	53.4	0.0	-46.42	2,356.3	345.7	377.3	337.1	40.22	9.381	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



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<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NBH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.0	7,662.0	10,105.3	7,402.0	54.9	0.0	-46.00	2,456.2	344.9	374.4	333.2	41.21	9.085	
10,500.0	7,662.0	10,205.3	7,402.0	56.4	0.0	-45.57	2,556.1	344.0	371.5	329.3	42.20	8.805	
10,600.0	7,662.0	10,305.2	7,402.0	58.0	0.0	-45.13	2,656.0	343.2	368.7	325.5	43.18	8.538	
10,700.0	7,662.0	10,405.1	7,402.0	59.5	0.0	-44.68	2,755.9	342.4	365.8	321.7	44.15	8.285	
10,800.0	7,662.0	10,505.0	7,402.0	61.1	0.0	-44.23	2,855.8	341.5	363.0	317.9	45.12	8.045	
10,900.0	7,662.0	10,604.9	7,402.0	62.6	0.0	-43.77	2,955.7	340.7	360.2	314.1	46.08	7.816	
11,000.0	7,662.0	10,704.9	7,402.0	64.2	0.0	-43.31	3,055.7	339.9	357.4	310.4	47.03	7.600	
11,100.0	7,662.0	10,804.8	7,402.0	65.8	0.0	-42.83	3,155.6	339.1	354.7	306.7	47.97	7.393	
11,200.0	7,662.0	10,904.7	7,402.0	67.4	0.0	-42.56	3,255.5	338.2	353.0	304.0	49.01	7.203	
11,228.6	7,662.0	10,933.3	7,402.0	67.8	0.0	-42.55	3,284.1	338.0	352.9	303.6	49.34	7.152	
11,300.0	7,662.0	11,004.7	7,402.0	69.0	0.0	-42.66	3,355.5	337.4	353.6	303.3	50.28	7.032	
11,400.0	7,662.0	11,104.7	7,402.0	70.6	0.0	-42.89	3,455.5	336.6	354.9	303.2	51.63	6.874	
11,500.0	7,662.0	11,204.7	7,402.0	72.2	0.0	-43.11	3,555.5	335.8	356.2	303.2	52.99	6.721	
11,600.0	7,662.0	11,304.7	7,402.0	73.8	0.0	-43.33	3,655.5	334.9	357.5	303.1	54.36	6.576	
11,700.0	7,662.0	11,404.7	7,402.0	75.4	0.0	-43.55	3,755.4	334.1	358.8	303.0	55.74	6.436	
11,800.0	7,662.0	11,504.6	7,402.0	77.0	0.0	-43.77	3,855.4	333.3	360.1	303.0	57.13	6.302	
11,900.0	7,662.0	11,604.6	7,402.0	78.7	0.0	-43.99	3,955.4	332.5	361.4	302.9	58.53	6.174	
12,000.0	7,662.0	11,704.6	7,402.0	80.3	0.0	-44.20	4,055.4	331.6	362.7	302.8	59.94	6.051	
12,100.0	7,662.0	11,804.6	7,402.0	81.9	0.0	-44.42	4,155.4	330.8	364.0	302.7	61.36	5.933	
12,200.0	7,662.0	11,904.6	7,402.0	83.6	0.0	-44.63	4,255.3	330.0	365.4	302.6	62.79	5.819	
12,300.0	7,662.0	12,004.6	7,402.0	85.2	0.0	-44.84	4,355.3	329.2	366.7	302.5	64.23	5.710	
12,400.0	7,662.0	12,104.5	7,402.0	86.9	0.0	-45.05	4,455.3	328.3	368.0	302.4	65.67	5.604	
12,500.0	7,662.0	12,204.5	7,402.0	88.5	0.0	-45.26	4,555.3	327.5	369.4	302.3	67.12	5.503	
12,600.0	7,662.0	12,304.5	7,402.0	90.2	0.0	-45.46	4,655.2	326.7	370.7	302.2	68.58	5.406	
12,700.0	7,662.0	12,404.5	7,402.0	91.8	0.0	-45.67	4,755.2	325.9	372.1	302.1	70.05	5.312	
12,800.0	7,662.0	12,504.5	7,402.0	93.5	0.0	-45.87	4,855.2	325.0	373.5	301.9	71.52	5.222	
12,900.0	7,662.0	12,604.4	7,402.0	95.2	0.0	-46.07	4,955.2	324.2	374.8	301.8	73.00	5.134	
13,000.0	7,662.0	12,704.4	7,402.0	96.9	0.0	-46.27	5,055.2	323.4	376.2	301.7	74.49	5.050	
13,100.0	7,662.0	12,804.4	7,402.0	98.5	0.0	-46.47	5,155.1	322.5	377.6	301.6	75.98	4.969	
13,200.0	7,662.0	12,904.4	7,402.0	100.2	0.0	-46.67	5,255.1	321.7	378.9	301.5	77.48	4.891	
13,300.0	7,662.0	13,004.4	7,402.0	101.9	0.0	-46.87	5,355.1	320.9	380.3	301.3	78.99	4.815	
13,400.0	7,662.0	13,104.4	7,402.0	103.6	0.0	-47.06	5,455.1	320.1	381.7	301.2	80.50	4.741	
13,500.0	7,662.0	13,204.3	7,402.0	105.3	0.0	-47.25	5,555.1	319.2	383.1	301.1	82.02	4.671	
13,600.0	7,662.0	13,304.3	7,402.0	107.0	0.0	-47.45	5,655.0	318.4	384.5	300.9	83.55	4.602	
13,700.0	7,662.0	13,404.3	7,402.0	108.7	0.0	-47.64	5,755.0	317.6	385.9	300.8	85.08	4.536	
13,800.0	7,662.0	13,504.3	7,402.0	110.3	0.0	-47.83	5,855.0	316.8	387.3	300.7	86.61	4.472	
13,900.0	7,662.0	13,604.3	7,402.0	112.0	0.0	-48.01	5,955.0	315.9	388.7	300.6	88.15	4.409	
14,000.0	7,662.0	13,704.3	7,402.0	113.7	0.0	-48.20	6,054.9	315.1	390.1	300.4	89.70	4.349	
14,100.0	7,662.0	13,804.2	7,402.0	115.4	0.0	-48.38	6,154.9	314.3	391.5	300.3	91.25	4.291	
14,200.0	7,662.0	13,904.2	7,402.0	117.1	0.0	-48.57	6,254.9	313.5	393.0	300.1	92.81	4.234	
14,300.0	7,662.0	14,004.2	7,402.0	118.8	0.0	-48.75	6,354.9	312.6	394.4	300.0	94.37	4.179	
14,400.0	7,662.0	14,104.2	7,402.0	120.5	0.0	-48.93	6,454.9	311.8	395.8	299.9	95.93	4.126	
14,500.0	7,662.0	14,204.2	7,402.0	122.3	0.0	-49.11	6,554.8	311.0	397.2	299.7	97.51	4.074	
14,600.0	7,662.0	14,304.1	7,402.0	124.0	0.0	-49.29	6,654.8	310.2	398.7	299.6	99.08	4.024	
14,700.0	7,662.0	14,404.1	7,402.0	125.7	0.0	-49.47	6,754.8	309.3	400.1	299.5	100.66	3.975	
14,800.0	7,662.0	14,504.1	7,402.0	127.4	0.0	-49.64	6,854.8	308.5	401.6	299.3	102.24	3.927	
14,900.0	7,662.0	14,604.1	7,402.0	129.1	0.0	-49.82	6,954.8	307.7	403.0	299.2	103.83	3.881	
15,000.0	7,662.0	14,704.1	7,402.0	130.8	0.0	-49.99	7,054.7	306.8	404.5	299.0	105.42	3.836	
15,100.0	7,662.0	14,804.1	7,402.0	132.5	0.0	-50.16	7,154.7	306.0	405.9	298.9	107.02	3.793	
15,200.0	7,662.0	14,904.0	7,402.0	134.2	0.0	-50.33	7,254.7	305.2	407.4	298.7	108.62	3.750	
15,300.0	7,662.0	15,004.0	7,402.0	136.0	0.0	-50.50	7,354.7	304.4	408.8	298.6	110.22	3.709	
15,400.0	7,662.0	15,104.0	7,402.0	137.7	0.0	-50.67	7,454.6	303.5	410.3	298.5	111.83	3.669	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,500.0	7,662.0	15,204.0	7,402.0	139.4	0.0	-50.84	7,554.6	302.7	411.8	298.3	113.44	3.630		
15,600.0	7,662.0	15,304.0	7,402.0	141.1	0.0	-51.01	7,654.6	301.9	413.2	298.2	115.06	3.591		
15,700.0	7,662.0	15,403.9	7,402.0	142.8	0.0	-51.17	7,754.6	301.1	414.7	298.0	116.68	3.554		
15,800.0	7,662.0	15,503.9	7,402.0	144.5	0.0	-51.33	7,854.6	300.2	416.2	297.9	118.30	3.518		
15,900.0	7,662.0	15,603.9	7,402.0	146.3	0.0	-51.50	7,954.5	299.4	417.7	297.7	119.93	3.483		
16,000.0	7,662.0	15,703.9	7,402.0	148.0	0.0	-51.66	8,054.5	298.6	419.2	297.6	121.56	3.448		
16,100.0	7,662.0	15,803.9	7,402.0	149.7	0.0	-51.82	8,154.5	297.8	420.7	297.5	123.19	3.415		
16,200.0	7,662.0	15,903.9	7,402.0	151.4	0.0	-51.98	8,254.5	296.9	422.1	297.3	124.82	3.382		
16,300.0	7,662.0	16,003.8	7,402.0	153.2	0.0	-52.14	8,354.5	296.1	423.6	297.2	126.46	3.350		
16,400.0	7,662.0	16,103.8	7,402.0	154.9	0.0	-52.29	8,454.4	295.3	425.1	297.0	128.11	3.319		
16,500.0	7,662.0	16,203.8	7,402.0	156.6	0.0	-52.45	8,554.4	294.5	426.6	296.9	129.75	3.288		
16,600.0	7,662.0	16,303.8	7,402.0	158.4	0.0	-52.60	8,654.4	293.6	428.1	296.7	131.40	3.258		
16,700.0	7,662.0	16,403.8	7,402.0	160.1	0.0	-52.76	8,754.4	292.8	429.7	296.6	133.05	3.229		
16,800.0	7,662.0	16,503.7	7,402.0	161.8	0.0	-52.91	8,854.3	292.0	431.2	296.5	134.70	3.201		
16,900.0	7,662.0	16,603.7	7,402.0	163.5	0.0	-53.06	8,954.3	291.1	432.7	296.3	136.36	3.173		
17,000.0	7,662.0	16,703.7	7,402.0	165.3	0.0	-53.21	9,054.3	290.3	434.2	296.2	138.02	3.146		
17,100.0	7,662.0	16,803.7	7,402.0	167.0	0.0	-53.36	9,154.3	289.5	435.7	296.0	139.68	3.119		
17,200.0	7,662.0	16,903.7	7,402.0	168.7	0.0	-53.51	9,254.3	288.7	437.2	295.9	141.34	3.093		
17,300.0	7,662.0	17,003.7	7,402.0	170.5	0.0	-53.66	9,354.2	287.8	438.8	295.8	143.01	3.068		
17,400.0	7,662.0	17,103.6	7,402.0	172.2	0.0	-53.80	9,454.2	287.0	440.3	295.6	144.68	3.043		
17,500.0	7,662.0	17,203.6	7,402.0	173.9	0.0	-53.95	9,554.2	286.2	441.8	295.5	146.35	3.019		
17,600.0	7,662.0	17,303.6	7,402.0	175.7	0.0	-54.09	9,654.2	285.4	443.4	295.3	148.03	2.995		
17,700.0	7,662.0	17,403.6	7,402.0	177.4	0.0	-54.23	9,754.2	284.5	444.9	295.2	149.70	2.972		
17,800.0	7,662.0	17,503.6	7,402.0	179.1	0.0	-54.38	9,854.1	283.7	446.4	295.1	151.38	2.949		
17,850.8	7,662.0	17,551.4	7,402.0	180.0	0.0	-54.44	9,902.0	283.3	447.2	295.0	152.19	2.939 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.37	-0.2	-30.0	30.0					
100.0	100.0	100.0	100.0	0.4	0.4	-90.37	-0.2	-30.0	30.0	29.4	0.55	54.145		
200.0	200.0	200.0	200.0	1.0	1.0	-90.37	-0.2	-30.0	30.0	28.4	1.60	18.793		
300.0	300.0	300.0	300.0	1.5	1.5	-90.37	-0.2	-30.0	30.0	27.6	2.45	12.246		
400.0	400.0	400.0	400.0	1.9	1.9	-90.37	-0.2	-30.0	30.0	26.8	3.24	9.266		
500.0	500.0	500.0	500.0	2.3	2.3	-90.37	-0.2	-30.0	30.0	26.0	4.00	7.502		
600.0	600.0	600.0	600.0	2.7	2.7	-90.37	-0.2	-30.0	30.0	25.3	4.75	6.320		
700.0	700.0	700.0	700.0	3.1	3.1	-90.37	-0.2	-30.0	30.0	24.5	5.49	5.469		
800.0	800.0	800.0	800.0	3.5	3.5	-90.37	-0.2	-30.0	30.0	23.8	6.22	4.823		
900.0	900.0	900.0	900.0	3.9	3.9	-90.37	-0.2	-30.0	30.0	23.1	6.95	4.316		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-90.37	-0.2	-30.0	30.0	22.3	7.68	3.907		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	4.6	-90.37	-0.2	-30.0	30.0	21.6	8.40	3.570		
1,200.0	1,200.0	1,200.0	1,200.0	5.0	5.0	-90.37	-0.2	-30.0	30.0	20.9	9.13	3.286	CC, ES	
1,300.0	1,300.0	1,300.0	1,300.0	5.3	5.3	144.28	-1.9	-29.9	31.3	21.4	9.91	3.164		
1,400.0	1,399.8	1,399.9	1,399.8	5.6	6.0	140.72	-7.2	-29.5	35.5	24.6	10.81	3.279		
1,500.0	1,499.5	1,499.6	1,499.2	6.3	6.3	137.20	-15.2	-29.0	42.5	30.8	11.62	3.654		
1,600.0	1,598.7	1,599.2	1,598.3	7.0	6.6	137.06	-23.4	-28.4	52.1	39.7	12.39	4.208		
1,700.0	1,697.7	1,698.5	1,697.3	7.3	6.9	138.43	-31.7	-27.8	63.4	50.4	13.03	4.868		
1,800.0	1,796.6	1,797.9	1,796.3	7.6	7.3	139.42	-39.9	-27.3	74.8	61.1	13.69	5.465		
1,900.0	1,895.6	1,897.2	1,895.3	7.9	7.6	140.15	-48.2	-26.7	86.2	71.8	14.36	6.003		
2,000.0	1,994.5	1,996.6	1,994.3	8.2	7.9	140.71	-56.4	-26.1	97.6	82.5	15.04	6.489		
2,100.0	2,093.4	2,095.9	2,093.3	8.6	8.3	141.16	-64.7	-25.5	109.0	93.3	15.73	6.930		
2,200.0	2,192.4	2,195.2	2,192.3	8.9	8.6	141.52	-72.9	-25.0	120.4	104.0	16.42	7.331		
2,300.0	2,291.3	2,294.6	2,291.3	9.3	9.0	141.81	-81.2	-24.4	131.8	114.7	17.13	7.695		
2,400.0	2,390.3	2,393.9	2,390.3	9.6	9.3	142.06	-89.4	-23.8	143.2	125.4	17.84	8.029		
2,500.0	2,489.2	2,493.3	2,489.3	10.0	9.7	142.28	-97.7	-23.3	154.6	136.1	18.56	8.334		
2,600.0	2,588.2	2,592.6	2,588.3	10.3	10.0	142.46	-105.9	-22.7	166.1	146.8	19.28	8.615		
2,700.0	2,687.1	2,692.0	2,687.3	10.7	10.4	142.62	-114.2	-22.1	177.5	157.5	20.00	8.873		
2,800.0	2,786.1	2,791.3	2,786.3	11.1	10.8	142.76	-122.4	-21.5	188.9	168.2	20.73	9.112		
2,900.0	2,885.0	2,890.7	2,885.3	11.5	11.1	142.88	-130.6	-21.0	200.3	178.9	21.46	9.333		
3,000.0	2,984.0	2,990.0	2,984.3	11.9	11.5	142.99	-138.9	-20.4	211.8	189.6	22.20	9.538		
3,100.0	3,082.9	3,089.3	3,083.3	12.3	11.8	143.09	-147.1	-19.8	223.2	200.2	22.94	9.729		
3,200.0	3,181.9	3,188.7	3,182.3	12.7	12.2	143.18	-155.4	-19.3	234.6	210.9	23.68	9.906		
3,300.0	3,280.8	3,288.0	3,281.3	13.1	12.6	143.27	-163.6	-18.7	246.0	221.6	24.43	10.072		
3,400.0	3,379.8	3,387.4	3,380.3	13.5	12.9	143.34	-171.9	-18.1	257.5	232.3	25.17	10.228		
3,500.0	3,478.7	3,486.7	3,479.3	13.9	13.3	143.41	-180.1	-17.6	268.9	243.0	25.92	10.373		
3,600.0	3,577.7	3,586.1	3,578.3	14.3	13.7	143.47	-188.4	-17.0	280.3	253.6	26.67	10.510		
3,700.0	3,676.6	3,685.4	3,677.3	14.7	14.0	143.53	-196.6	-16.4	291.7	264.3	27.42	10.638		
3,800.0	3,775.6	3,784.8	3,776.3	15.1	14.4	143.58	-204.9	-15.8	303.2	275.0	28.18	10.759		
3,900.0	3,874.5	3,884.1	3,875.3	15.6	14.8	143.63	-213.1	-15.3	314.6	285.7	28.93	10.874		
4,000.0	3,973.5	3,983.4	3,974.3	16.0	15.1	143.68	-221.4	-14.7	326.0	296.3	29.69	10.981		
4,100.0	4,072.4	4,082.8	4,073.3	16.4	15.5	143.72	-229.6	-14.1	337.5	307.0	30.45	11.084		
4,200.0	4,171.4	4,182.1	4,172.3	16.8	15.9	143.76	-237.9	-13.6	348.9	317.7	31.21	11.180		
4,300.0	4,270.3	4,281.5	4,271.3	17.2	16.2	143.80	-246.1	-13.0	360.3	328.3	31.96	11.272		
4,400.0	4,369.3	4,380.8	4,370.3	17.7	16.6	143.83	-254.4	-12.4	371.7	339.0	32.73	11.359		
4,500.0	4,468.2	4,480.2	4,469.3	18.1	17.0	143.87	-262.6	-11.8	383.2	349.7	33.49	11.442		
4,600.0	4,567.2	4,579.5	4,568.3	18.5	17.3	143.90	-270.8	-11.3	394.6	360.4	34.25	11.521		
4,700.0	4,666.1	4,678.9	4,667.3	18.9	17.7	143.93	-279.1	-10.7	406.0	371.0	35.01	11.597		
4,800.0	4,765.1	4,778.2	4,766.3	19.4	18.1	143.95	-287.3	-10.1	417.5	381.7	35.78	11.668		
4,900.0	4,864.0	4,877.5	4,865.3	19.8	18.5	143.98	-295.6	-9.6	428.9	392.3	36.54	11.737		
5,000.0	4,962.9	4,976.9	4,964.3	20.2	18.8	144.01	-303.8	-9.0	440.3	403.0	37.31	11.802		
5,100.0	5,061.9	5,076.2	5,063.3	20.6	19.2	144.03	-312.1	-8.4	451.7	413.7	38.07	11.865		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,175.6	5,162.3	21.1	19.6	144.05	-320.3	-7.9	463.2	424.3	38.84	11.925		
5,300.0	5,259.8	5,274.9	5,261.3	21.5	20.0	144.07	-328.6	-7.3	474.6	435.0	39.61	11.983		
5,400.0	5,358.7	5,374.3	5,360.3	21.9	20.3	144.09	-336.8	-6.7	486.0	445.7	40.38	12.038		
5,500.0	5,457.7	5,473.6	5,459.3	22.3	20.7	144.11	-345.1	-6.1	497.5	456.3	41.14	12.091		
5,600.0	5,556.6	5,573.0	5,558.3	22.8	21.1	144.13	-353.3	-5.6	508.9	467.0	41.91	12.142		
5,700.0	5,655.6	5,672.3	5,657.3	23.2	21.5	144.15	-361.6	-5.0	520.3	477.6	42.68	12.191		
5,800.0	5,754.5	5,771.6	5,756.3	23.6	21.8	144.17	-369.8	-4.4	531.8	488.3	43.45	12.238		
5,900.0	5,853.5	5,871.0	5,855.3	24.1	22.2	144.18	-378.1	-3.9	543.2	499.0	44.22	12.284		
6,000.0	5,952.4	5,970.3	5,954.3	24.5	22.6	144.20	-386.3	-3.3	554.6	509.6	44.99	12.327		
6,100.0	6,051.4	6,069.7	6,053.3	24.9	23.0	144.21	-394.6	-2.7	566.1	520.3	45.76	12.369		
6,200.0	6,150.3	6,169.0	6,152.3	25.4	23.4	144.23	-402.8	-2.1	577.5	530.9	46.53	12.410		
6,300.0	6,249.3	6,268.4	6,251.3	25.8	23.7	144.24	-411.0	-1.6	588.9	541.6	47.30	12.449		
6,400.0	6,348.2	6,367.7	6,350.3	26.2	24.1	144.25	-419.3	-1.0	600.3	552.3	48.08	12.487		
6,500.0	6,447.2	6,467.1	6,449.3	26.6	24.5	144.27	-427.5	-0.4	611.8	562.9	48.85	12.524		
6,600.0	6,546.1	6,566.4	6,548.3	27.1	24.9	144.28	-435.8	0.1	623.2	573.6	49.62	12.559		
6,700.0	6,645.1	6,665.7	6,647.3	27.5	25.3	144.29	-444.0	0.7	634.6	584.2	50.39	12.594		
6,800.0	6,744.0	6,765.1	6,746.3	27.9	25.6	144.30	-452.3	1.3	646.1	594.9	51.17	12.627		
6,900.0	6,843.0	6,864.4	6,845.3	28.4	26.0	144.31	-460.5	1.8	657.5	605.6	51.94	12.659		
7,000.0	6,941.9	6,964.8	6,945.6	28.8	26.5	144.99	-461.1	2.4	668.8	616.0	52.82	12.664		
7,100.0	7,040.9	7,059.9	7,039.3	29.2	26.9	146.97	-445.6	2.7	680.6	627.2	53.41	12.743		
7,200.0	7,140.1	7,150.0	7,124.6	29.7	27.2	-137.73	-416.8	2.9	693.3	639.6	53.80	12.889		
7,300.0	7,237.8	7,233.5	7,198.7	30.0	27.4	-104.42	-378.4	3.0	706.4	652.1	54.25	13.022		
7,400.0	7,331.2	7,315.8	7,265.5	30.5	27.6	-92.40	-330.5	2.9	719.0	664.6	54.39	13.218		
7,500.0	7,417.3	7,400.0	7,326.0	30.9	27.8	-85.79	-272.1	2.7	730.4	676.0	54.41	13.425		
7,600.0	7,493.6	7,474.2	7,371.8	31.1	27.9	-81.61	-213.8	2.5	740.2	685.8	54.33	13.624		
7,700.0	7,557.7	7,550.0	7,410.4	31.2	28.1	-78.72	-148.6	2.1	747.7	693.4	54.28	13.774		
7,800.0	7,607.6	7,627.1	7,440.4	31.3	28.2	-76.78	-77.6	1.7	752.7	698.3	54.33	13.853		
7,900.0	7,642.0	7,700.0	7,459.8	31.2	28.3	-75.68	-7.4	1.2	754.8	700.3	54.50	13.850		
8,000.0	7,659.6	7,777.3	7,470.5	31.1	28.4	-75.28	69.0	0.6	753.9	699.0	54.85	13.744		
8,100.0	7,662.0	7,863.4	7,472.0	31.0	28.6	-75.32	155.1	-0.1	750.4	695.0	55.40	13.545		
8,200.0	7,662.0	7,963.3	7,472.0	31.0	29.0	-75.24	255.0	-0.9	746.5	690.3	56.16	13.293		
8,300.0	7,662.0	8,063.2	7,472.0	31.0	29.5	-75.16	354.9	-1.7	742.6	685.5	57.11	13.002		
8,400.0	7,662.0	8,163.1	7,472.0	31.3	30.1	-75.08	454.8	-2.5	738.7	680.4	58.25	12.681		
8,500.0	7,662.0	8,263.1	7,472.0	31.9	30.8	-75.00	554.8	-3.4	734.8	675.2	59.57	12.335		
8,600.0	7,662.0	8,363.0	7,472.0	32.7	31.5	-74.92	654.7	-4.2	730.9	669.9	61.05	11.972		
8,700.0	7,662.0	8,462.9	7,472.0	33.5	32.4	-74.84	754.6	-5.0	727.0	664.4	62.69	11.598		
8,800.0	7,662.0	8,562.8	7,472.0	34.4	33.4	-74.76	854.5	-5.8	723.2	658.7	64.46	11.219		
8,900.0	7,662.0	8,662.7	7,472.0	35.4	34.4	-74.67	954.4	-6.7	719.3	652.9	66.36	10.838		
9,000.0	7,662.0	8,762.6	7,472.0	36.4	35.4	-74.59	1,054.3	-7.5	715.4	647.0	68.38	10.462		
9,100.0	7,662.0	8,862.6	7,472.0	37.5	36.6	-74.50	1,154.3	-8.3	711.5	641.0	70.51	10.091		
9,200.0	7,662.0	8,962.5	7,472.0	38.6	37.7	-74.41	1,254.2	-9.2	707.6	634.9	72.73	9.729		
9,300.0	7,662.0	9,062.4	7,472.0	39.8	39.0	-74.32	1,354.1	-10.0	703.8	628.7	75.04	9.378		
9,400.0	7,662.0	9,162.3	7,472.0	41.0	40.2	-74.24	1,454.0	-10.8	699.9	622.4	77.44	9.038		
9,500.0	7,662.0	9,262.2	7,472.0	42.3	41.5	-74.15	1,553.9	-11.6	696.0	616.1	79.90	8.711		
9,600.0	7,662.0	9,362.2	7,472.0	43.6	42.9	-74.05	1,653.8	-12.5	692.1	609.7	82.43	8.397		
9,700.0	7,662.0	9,462.1	7,472.0	44.9	44.2	-73.96	1,753.7	-13.3	688.3	603.3	85.02	8.096		
9,800.0	7,662.0	9,562.0	7,472.0	46.3	45.6	-73.87	1,853.7	-14.1	684.4	596.7	87.66	7.808		
9,900.0	7,662.0	9,661.9	7,472.0	47.7	47.0	-73.78	1,953.6	-14.9	680.5	590.2	90.35	7.532		
10,000.0	7,662.0	9,761.8	7,472.0	49.1	48.5	-73.68	2,053.5	-15.8	676.7	583.6	93.08	7.269		
10,100.0	7,662.0	9,861.8	7,472.0	50.5	49.9	-73.58	2,153.4	-16.6	672.8	577.0	95.86	7.019		
10,200.0	7,662.0	9,961.7	7,472.0	52.0	51.4	-73.49	2,253.3	-17.4	669.0	570.3	98.67	6.780		
10,300.0	7,662.0	10,061.6	7,472.0	53.4	52.9	-73.39	2,353.2	-18.2	665.1	563.6	101.51	6.552		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,161.5	7,472.0	54.9	54.4	-73.29	2,453.2	-19.1	661.2	556.9	104.38	6.335		
10,500.0	7,662.0	10,261.4	7,472.0	56.4	55.9	-73.19	2,553.1	-19.9	657.4	550.1	107.28	6.128		
10,600.0	7,662.0	10,361.4	7,472.0	58.0	57.5	-73.09	2,653.0	-20.7	653.5	543.3	110.20	5.930		
10,700.0	7,662.0	10,461.3	7,472.0	59.5	59.0	-72.98	2,752.9	-21.5	649.7	536.5	113.15	5.742		
10,800.0	7,662.0	10,561.2	7,472.0	61.1	60.6	-72.88	2,852.8	-22.4	645.8	529.7	116.11	5.562		
10,900.0	7,662.0	10,661.1	7,472.0	62.6	62.2	-72.77	2,952.7	-23.2	642.0	522.9	119.10	5.391		
11,000.0	7,662.0	10,761.0	7,472.0	64.2	63.8	-72.66	3,052.7	-24.0	638.1	516.1	122.09	5.227		
11,100.0	7,662.0	10,860.9	7,472.0	65.8	65.4	-72.56	3,152.6	-24.8	634.3	509.2	125.11	5.070		
11,200.0	7,662.0	10,960.9	7,472.0	67.4	67.0	-72.50	3,252.5	-25.7	631.9	503.8	128.16	4.931		
11,228.6	7,662.0	10,989.5	7,472.0	67.8	67.4	-72.50	3,281.1	-25.9	631.8	502.8	129.04	4.896		
11,300.0	7,662.0	11,060.9	7,472.0	69.0	68.6	-72.52	3,352.5	-26.5	632.8	501.5	131.28	4.820		
11,400.0	7,662.0	11,160.9	7,472.0	70.6	70.2	-72.57	3,452.5	-27.3	634.6	500.2	134.41	4.721		
11,500.0	7,662.0	11,260.9	7,472.0	72.2	71.8	-72.63	3,552.5	-28.2	636.4	498.8	137.55	4.626		
11,600.0	7,662.0	11,360.8	7,472.0	73.8	73.5	-72.68	3,652.5	-29.0	638.2	497.5	140.71	4.535		
11,700.0	7,662.0	11,460.8	7,472.0	75.4	75.1	-72.73	3,752.4	-29.8	640.0	496.1	143.89	4.448		
11,800.0	7,662.0	11,560.8	7,472.0	77.0	76.7	-72.78	3,852.4	-30.6	641.8	494.7	147.07	4.364		
11,900.0	7,662.0	11,660.8	7,472.0	78.7	78.4	-72.83	3,952.4	-31.5	643.6	493.4	150.27	4.283		
12,000.0	7,662.0	11,760.8	7,472.0	80.3	80.0	-72.88	4,052.4	-32.3	645.4	492.0	153.48	4.205		
12,100.0	7,662.0	11,860.8	7,472.0	81.9	81.7	-72.93	4,152.3	-33.1	647.3	490.6	156.70	4.131		
12,200.0	7,662.0	11,960.7	7,472.0	83.6	83.4	-72.98	4,252.3	-33.9	649.1	489.1	159.93	4.058		
12,300.0	7,662.0	12,060.7	7,472.0	85.2	85.0	-73.02	4,352.3	-34.8	650.9	487.7	163.17	3.989		
12,400.0	7,662.0	12,160.7	7,472.0	86.9	86.7	-73.07	4,452.3	-35.6	652.7	486.3	166.42	3.922		
12,500.0	7,662.0	12,260.7	7,472.0	88.5	88.4	-73.12	4,552.3	-36.4	654.5	484.8	169.67	3.858		
12,600.0	7,662.0	12,360.7	7,472.0	90.2	90.1	-73.17	4,652.2	-37.2	656.3	483.4	172.94	3.795		
12,700.0	7,662.0	12,460.6	7,472.0	91.8	91.7	-73.22	4,752.2	-38.1	658.1	481.9	176.21	3.735		
12,800.0	7,662.0	12,560.6	7,472.0	93.5	93.4	-73.27	4,852.2	-38.9	660.0	480.5	179.49	3.677		
12,900.0	7,662.0	12,660.6	7,472.0	95.2	95.1	-73.31	4,952.2	-39.7	661.8	479.0	182.77	3.621		
13,000.0	7,662.0	12,760.6	7,472.0	96.9	96.8	-73.36	5,052.2	-40.6	663.6	477.5	186.06	3.566		
13,100.0	7,662.0	12,860.6	7,472.0	98.5	98.5	-73.41	5,152.1	-41.4	665.4	476.1	189.36	3.514		
13,200.0	7,662.0	12,960.6	7,472.0	100.2	100.2	-73.45	5,252.1	-42.2	667.2	474.6	192.67	3.463		
13,300.0	7,662.0	13,060.5	7,472.0	101.9	101.9	-73.50	5,352.1	-43.0	669.1	473.1	195.98	3.414		
13,400.0	7,662.0	13,160.5	7,472.0	103.6	103.6	-73.55	5,452.1	-43.9	670.9	471.6	199.29	3.366		
13,500.0	7,662.0	13,260.5	7,472.0	105.3	105.3	-73.59	5,552.0	-44.7	672.7	470.1	202.61	3.320		
13,600.0	7,662.0	13,360.5	7,472.0	107.0	107.0	-73.64	5,652.0	-45.5	674.5	468.6	205.94	3.275		
13,700.0	7,662.0	13,460.5	7,472.0	108.7	108.7	-73.68	5,752.0	-46.3	676.3	467.1	209.27	3.232		
13,800.0	7,662.0	13,560.5	7,472.0	110.3	110.4	-73.73	5,852.0	-47.2	678.2	465.5	212.61	3.190		
13,900.0	7,662.0	13,660.4	7,472.0	112.0	112.1	-73.77	5,952.0	-48.0	680.0	464.0	215.95	3.149		
14,000.0	7,662.0	13,760.4	7,472.0	113.7	113.8	-73.82	6,051.9	-48.8	681.8	462.5	219.29	3.109		
14,100.0	7,662.0	13,860.4	7,472.0	115.4	115.6	-73.86	6,151.9	-49.6	683.6	461.0	222.64	3.071		
14,200.0	7,662.0	13,960.4	7,472.0	117.1	117.3	-73.90	6,251.9	-50.5	685.4	459.4	225.99	3.033		
14,300.0	7,662.0	14,060.4	7,472.0	118.8	119.0	-73.95	6,351.9	-51.3	687.3	457.9	229.35	2.997		
14,400.0	7,662.0	14,149.0	7,472.0	120.5	120.5	-74.00	6,440.5	-52.5	689.6	457.2	232.41	2.967		
14,500.0	7,662.0	14,240.8	7,472.0	122.3	122.1	-74.09	6,532.3	-55.7	694.0	458.4	235.57	2.946		
14,600.0	7,662.0	14,340.7	7,472.0	124.0	123.8	-74.20	6,632.1	-59.4	698.6	459.6	239.01	2.923		
14,700.0	7,662.0	14,440.6	7,472.0	125.7	125.6	-74.31	6,731.9	-63.2	703.2	460.8	242.45	2.901		
14,800.0	7,662.0	14,540.5	7,472.0	127.4	127.3	-74.41	6,831.7	-66.9	707.9	462.0	245.89	2.879		
14,900.0	7,662.0	14,640.4	7,472.0	129.1	129.0	-74.52	6,931.5	-70.7	712.5	463.2	249.34	2.858		
15,000.0	7,662.0	14,740.3	7,472.0	130.8	130.8	-74.62	7,031.3	-74.4	717.2	464.4	252.79	2.837		
15,100.0	7,662.0	14,840.1	7,472.0	132.5	132.5	-74.72	7,131.2	-78.2	721.8	465.6	256.24	2.817		
15,200.0	7,662.0	14,940.0	7,472.0	134.2	134.2	-74.82	7,231.0	-81.9	726.5	466.8	259.69	2.797		
15,300.0	7,662.0	15,039.9	7,472.0	136.0	136.0	-74.92	7,330.8	-85.7	731.1	468.0	263.15	2.778		
15,400.0	7,662.0	15,139.8	7,472.0	137.7	137.7	-75.02	7,430.6	-89.4	735.8	469.2	266.61	2.760		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,500.0	7,662.0	15,239.7	7,472.0	139.4	139.4	-75.12	7,530.4	-93.2	740.5	470.4	270.07	2.742		
15,600.0	7,662.0	15,339.6	7,472.0	141.1	141.2	-75.21	7,630.2	-96.9	745.1	471.6	273.54	2.724		
15,700.0	7,662.0	15,439.4	7,472.0	142.8	142.9	-75.30	7,730.0	-100.7	749.8	472.8	277.00	2.707		
15,800.0	7,662.0	15,539.3	7,472.0	144.5	144.7	-75.40	7,829.9	-104.4	754.4	474.0	280.47	2.690		
15,900.0	7,662.0	15,639.2	7,472.0	146.3	146.4	-75.49	7,929.7	-108.2	759.1	475.2	283.95	2.673		
16,000.0	7,662.0	15,739.1	7,472.0	148.0	148.1	-75.58	8,029.5	-111.9	763.8	476.4	287.42	2.657		
16,100.0	7,662.0	15,839.0	7,472.0	149.7	149.9	-75.67	8,129.3	-115.6	768.5	477.6	290.89	2.642		
16,200.0	7,662.0	15,944.2	7,472.0	151.4	151.7	-75.76	8,234.4	-119.5	773.1	478.5	294.55	2.625		
16,300.0	7,662.0	16,079.7	7,472.0	153.2	154.1	-75.80	8,369.9	-120.4	774.8	476.0	298.81	2.593		
16,400.0	7,662.0	16,186.6	7,472.0	154.9	155.9	-75.78	8,476.8	-117.8	773.4	471.1	302.25	2.559		
16,500.0	7,662.0	16,286.6	7,472.0	156.6	157.7	-75.75	8,576.8	-115.1	771.9	466.3	305.59	2.526		
16,600.0	7,662.0	16,386.6	7,472.0	158.4	159.4	-75.72	8,676.7	-112.5	770.4	461.4	308.92	2.494		
16,700.0	7,662.0	16,486.6	7,472.0	160.1	161.1	-75.69	8,776.7	-109.9	768.9	456.6	312.26	2.462		
16,800.0	7,662.0	16,586.6	7,472.0	161.8	162.8	-75.66	8,876.7	-107.3	767.4	451.8	315.60	2.431		
16,900.0	7,662.0	16,686.6	7,472.0	163.5	164.6	-75.63	8,976.6	-104.7	765.9	446.9	318.94	2.401		
17,000.0	7,662.0	16,786.6	7,472.0	165.3	166.3	-75.61	9,076.6	-102.1	764.4	442.1	322.28	2.372		
17,100.0	7,662.0	16,886.6	7,472.0	167.0	168.0	-75.58	9,176.5	-99.4	762.9	437.2	325.62	2.343		
17,200.0	7,662.0	16,986.5	7,472.0	168.7	169.7	-75.55	9,276.5	-96.8	761.4	432.4	328.96	2.314		
17,300.0	7,662.0	17,086.5	7,472.0	170.5	171.5	-75.52	9,376.4	-94.2	759.9	427.6	332.30	2.287		
17,400.0	7,662.0	17,186.5	7,472.0	172.2	173.2	-75.49	9,476.4	-91.6	758.4	422.7	335.64	2.259		
17,500.0	7,662.0	17,286.5	7,472.0	173.9	174.9	-75.46	9,576.3	-89.0	756.9	417.9	338.98	2.233		
17,600.0	7,662.0	17,386.5	7,472.0	175.7	176.7	-75.43	9,676.3	-86.4	755.4	413.1	342.32	2.207		
17,700.0	7,662.0	17,486.5	7,472.0	177.4	178.4	-75.40	9,776.2	-83.7	753.9	408.2	345.66	2.181		
17,800.0	7,662.0	17,586.5	7,472.0	179.1	180.1	-75.37	9,876.2	-81.1	752.4	403.4	349.00	2.156		
17,831.1	7,662.0	17,606.3	7,472.0	179.7	180.5	-75.36	9,896.0	-80.6	752.0	402.1	349.88	2.149		
17,850.8	7,662.0	17,606.3	7,472.0	180.0	180.5	-75.36	9,896.0	-80.6	752.2	402.2	350.08	2.149 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.33	-0.3	-45.0	45.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.33	-0.3	-45.0	45.0	44.7	0.28	162.404		
200.0	200.0	200.0	200.0	1.0	0.0	-90.33	-0.3	-45.0	45.0	44.2	0.80	56.390		
300.0	300.0	300.0	300.0	1.5	0.0	-90.33	-0.3	-45.0	45.0	43.8	1.22	36.745		
400.0	400.0	400.0	400.0	1.9	0.0	-90.33	-0.3	-45.0	45.0	43.4	1.62	27.803		
500.0	500.0	500.0	500.0	2.3	0.0	-90.33	-0.3	-45.0	45.0	43.0	2.00	22.509		
600.0	600.0	600.0	600.0	2.7	0.0	-90.33	-0.3	-45.0	45.0	42.6	2.37	18.964		
700.0	700.0	700.0	700.0	3.1	0.0	-90.33	-0.3	-45.0	45.0	42.3	2.74	16.408		
800.0	800.0	800.0	800.0	3.5	0.0	-90.33	-0.3	-45.0	45.0	41.9	3.11	14.472		
900.0	900.0	900.0	900.0	3.9	0.0	-90.33	-0.3	-45.0	45.0	41.5	3.47	12.950		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	-90.33	-0.3	-45.0	45.0	41.2	3.84	11.723		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	0.0	-90.33	-0.3	-45.0	45.0	40.8	4.20	10.710 CC, ES		
1,200.0	1,200.0	1,199.4	1,199.3	5.0	0.0	-92.32	-1.8	-45.7	45.7	41.1	4.59	9.948		
1,300.0	1,300.0	1,298.5	1,298.3	5.3	0.0	139.45	-6.6	-47.6	49.4	44.4	5.07	9.758		
1,400.0	1,399.8	1,397.5	1,396.9	5.6	0.0	135.40	-14.3	-50.8	57.7	52.1	5.54	10.412		
1,500.0	1,499.5	1,496.8	1,495.9	6.3	0.0	133.91	-22.8	-54.3	68.9	63.0	5.95	11.576		
1,600.0	1,598.7	1,595.9	1,594.5	7.0	0.0	134.54	-31.2	-57.8	82.6	76.2	6.37	12.962		
1,700.0	1,697.7	1,694.6	1,692.9	7.3	0.0	136.03	-39.6	-61.3	97.9	91.2	6.69	14.618		
1,800.0	1,796.6	1,793.4	1,791.2	7.6	0.0	137.17	-48.1	-64.8	113.2	106.2	7.02	16.133		
1,900.0	1,895.6	1,892.2	1,889.6	7.9	0.0	138.03	-56.5	-68.3	128.6	121.3	7.35	17.509		
2,000.0	1,994.5	1,991.0	1,988.0	8.2	0.0	138.71	-64.9	-71.8	144.0	136.4	7.68	18.759		
2,100.0	2,093.4	2,089.8	2,086.3	8.6	0.0	139.25	-73.3	-75.3	159.5	151.5	8.02	19.897		
2,200.0	2,192.4	2,188.6	2,184.7	8.9	0.0	139.70	-81.7	-78.8	174.9	166.6	8.36	20.934		
2,300.0	2,291.3	2,287.4	2,283.1	9.3	0.0	140.08	-90.1	-82.3	190.4	181.7	8.70	21.881		
2,400.0	2,390.3	2,386.2	2,381.5	9.6	0.0	140.40	-98.6	-85.7	205.9	196.8	9.05	22.747		
2,500.0	2,489.2	2,485.0	2,479.8	10.0	0.0	140.68	-107.0	-89.2	221.3	211.9	9.40	23.542		
2,600.0	2,588.2	2,583.8	2,578.2	10.3	0.0	140.92	-115.4	-92.7	236.8	227.0	9.76	24.273		
2,700.0	2,687.1	2,682.6	2,676.6	10.7	0.0	141.13	-123.8	-96.2	252.3	242.2	10.11	24.946		
2,800.0	2,786.1	2,781.3	2,774.9	11.1	0.0	141.31	-132.2	-99.7	267.8	257.3	10.47	25.567		
2,900.0	2,885.0	2,880.1	2,873.3	11.5	0.0	141.48	-140.6	-103.2	283.2	272.4	10.83	26.142		
3,000.0	2,984.0	2,978.9	2,971.7	11.9	0.0	141.63	-149.0	-106.7	298.7	287.5	11.20	26.675		
3,100.0	3,082.9	3,077.7	3,070.0	12.3	0.0	141.76	-157.5	-110.2	314.2	302.6	11.56	27.170		
3,200.0	3,181.9	3,176.5	3,168.4	12.7	0.0	141.88	-165.9	-113.6	329.7	317.8	11.93	27.631		
3,300.0	3,280.8	3,275.3	3,266.8	13.1	0.0	141.99	-174.3	-117.1	345.2	332.9	12.30	28.061		
3,400.0	3,379.8	3,374.1	3,365.2	13.5	0.0	142.09	-182.7	-120.6	360.7	348.0	12.67	28.462		
3,500.0	3,478.7	3,472.9	3,463.5	13.9	0.0	142.19	-191.1	-124.1	376.2	363.1	13.04	28.838		
3,600.0	3,577.7	3,571.7	3,561.9	14.3	0.0	142.27	-199.5	-127.6	391.7	378.2	13.42	29.191		
3,700.0	3,676.6	3,670.5	3,660.3	14.7	0.0	142.35	-207.9	-131.1	407.2	393.4	13.79	29.522		
3,800.0	3,775.6	3,769.3	3,758.6	15.1	0.0	142.42	-216.4	-134.6	422.7	408.5	14.17	29.833		
3,900.0	3,874.5	3,868.0	3,857.0	15.6	0.0	142.49	-224.8	-138.1	438.1	423.6	14.54	30.126		
4,000.0	3,973.5	3,966.8	3,955.4	16.0	0.0	142.55	-233.2	-141.6	453.6	438.7	14.92	30.403		
4,100.0	4,072.4	4,065.6	4,053.7	16.4	0.0	142.61	-241.6	-145.0	469.1	453.8	15.30	30.664		
4,200.0	4,171.4	4,164.4	4,152.1	16.8	0.0	142.67	-250.0	-148.5	484.6	469.0	15.68	30.912		
4,300.0	4,270.3	4,263.2	4,250.5	17.2	0.0	142.72	-258.4	-152.0	500.1	484.1	16.06	31.146		
4,400.0	4,369.3	4,362.0	4,348.9	17.7	0.0	142.77	-266.9	-155.5	515.6	499.2	16.44	31.368		
4,500.0	4,468.2	4,460.8	4,447.2	18.1	0.0	142.81	-275.3	-159.0	531.1	514.3	16.82	31.579		
4,600.0	4,567.2	4,559.6	4,545.6	18.5	0.0	142.86	-283.7	-162.5	546.6	529.4	17.20	31.779		
4,700.0	4,666.1	4,658.4	4,644.0	18.9	0.0	142.90	-292.1	-166.0	562.1	544.5	17.58	31.970		
4,800.0	4,765.1	4,757.2	4,742.3	19.4	0.0	142.94	-300.5	-169.5	577.6	559.7	17.97	32.151		
4,900.0	4,864.0	4,856.0	4,840.7	19.8	0.0	142.97	-308.9	-172.9	593.1	574.8	18.35	32.325		
5,000.0	4,962.9	4,954.8	4,939.1	20.2	0.0	143.01	-317.3	-176.4	608.6	589.9	18.73	32.490		
5,100.0	5,061.9	5,053.5	5,037.5	20.6	0.0	143.04	-325.8	-179.9	624.1	605.0	19.12	32.648		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,152.3	5,135.8	21.1	0.0	143.07	-334.2	-183.4	639.6	620.1	19.50	32.799		
5,300.0	5,259.8	5,251.1	5,234.2	21.5	0.0	143.10	-342.6	-186.9	655.1	635.2	19.89	32.943		
5,400.0	5,358.7	5,349.9	5,332.6	21.9	0.0	143.13	-351.0	-190.4	670.6	650.3	20.27	33.082		
5,500.0	5,457.7	5,448.7	5,430.9	22.3	0.0	143.16	-359.4	-193.9	686.1	665.5	20.66	33.214		
5,600.0	5,556.6	5,547.5	5,529.3	22.8	0.0	143.18	-367.8	-197.4	701.6	680.6	21.04	33.341		
5,700.0	5,655.6	5,646.3	5,627.7	23.2	0.0	143.21	-376.2	-200.8	717.1	695.7	21.43	33.464		
5,800.0	5,754.5	5,745.1	5,726.0	23.6	0.0	143.23	-384.7	-204.3	732.6	710.8	21.82	33.581		
5,900.0	5,853.5	5,843.9	5,824.4	24.1	0.0	143.26	-393.1	-207.8	748.1	725.9	22.20	33.694		
6,000.0	5,952.4	5,942.7	5,922.8	24.5	0.0	143.28	-401.5	-211.3	763.6	741.0	22.59	33.802		
6,100.0	6,051.4	6,041.5	6,021.2	24.9	0.0	143.30	-409.9	-214.8	779.1	756.1	22.98	33.907		
6,200.0	6,150.3	6,140.2	6,119.5	25.4	0.0	143.32	-418.3	-218.3	794.6	771.2	23.37	34.007		
6,300.0	6,249.3	6,239.0	6,217.9	25.8	0.0	143.34	-426.7	-221.8	810.1	786.4	23.75	34.104		
6,400.0	6,348.2	6,337.8	6,316.3	26.2	0.0	143.36	-435.2	-225.3	825.6	801.5	24.14	34.198		
6,500.0	6,447.2	6,436.6	6,414.6	26.6	0.0	143.38	-443.6	-228.8	841.1	816.6	24.53	34.288		
6,600.0	6,546.1	6,535.4	6,513.0	27.1	0.0	143.39	-452.0	-232.2	856.6	831.7	24.92	34.376		
6,700.0	6,645.1	6,634.2	6,611.4	27.5	0.0	143.41	-460.4	-235.7	872.1	846.8	25.31	34.460		
6,800.0	6,744.0	6,736.2	6,713.1	27.9	0.0	143.81	-463.2	-239.4	887.5	861.8	25.69	34.544		
6,900.0	6,843.0	6,834.1	6,809.9	28.4	0.0	145.25	-449.1	-243.0	902.7	876.7	26.01	34.710		
7,000.0	6,941.9	6,922.4	6,893.9	28.8	0.0	147.37	-422.5	-246.3	919.1	892.8	26.25	35.014		
7,100.0	7,040.9	7,000.0	6,963.6	29.2	0.0	149.81	-388.7	-249.1	938.1	911.7	26.41	35.516		
7,200.0	7,140.1	7,067.6	7,020.2	29.7	0.0	-134.16	-351.8	-251.4	959.8	933.3	26.55	36.149		
7,300.0	7,237.8	7,134.0	7,071.1	30.0	0.0	-99.96	-309.3	-253.6	982.4	955.6	26.78	36.682		
7,400.0	7,331.2	7,200.0	7,116.5	30.5	0.0	-87.11	-261.5	-255.6	1,004.5	977.8	26.73	37.579		
7,500.0	7,417.3	7,262.0	7,153.9	30.9	0.0	-79.89	-212.1	-257.4	1,025.0	998.4	26.56	38.593		
7,600.0	7,493.6	7,324.4	7,185.9	31.1	0.0	-75.04	-158.6	-259.0	1,042.8	1,016.4	26.37	39.546		
7,700.0	7,557.7	7,386.1	7,211.7	31.2	0.0	-71.66	-102.5	-260.4	1,057.2	1,031.0	26.21	40.340		
7,800.0	7,607.6	7,450.0	7,231.9	31.3	0.0	-69.35	-42.0	-261.6	1,067.5	1,041.4	26.12	40.877		
7,900.0	7,642.0	7,500.0	7,242.9	31.2	0.0	-68.04	6.8	-262.4	1,073.4	1,047.3	26.11	41.119		
8,000.0	7,659.6	7,568.7	7,251.0	31.1	0.0	-67.48	75.0	-263.3	1,074.5	1,048.3	26.23	40.961		
8,100.0	7,662.0	7,646.7	7,252.0	31.0	0.0	-67.48	152.9	-264.0	1,071.4	1,044.9	26.46	40.494		
8,200.0	7,662.0	7,746.6	7,252.0	31.0	0.0	-67.40	252.8	-264.8	1,067.7	1,040.9	26.76	39.894		
8,300.0	7,662.0	7,846.5	7,252.0	31.0	0.0	-67.32	352.7	-265.6	1,064.0	1,036.8	27.17	39.163		
8,400.0	7,662.0	7,946.5	7,252.0	31.3	0.0	-67.23	452.7	-266.4	1,060.2	1,032.6	27.67	38.324		
8,500.0	7,662.0	8,046.4	7,252.0	31.9	0.0	-67.15	552.6	-267.3	1,056.5	1,028.3	28.25	37.397		
8,600.0	7,662.0	8,146.3	7,252.0	32.7	0.0	-67.06	652.5	-268.1	1,052.8	1,023.9	28.92	36.403		
8,700.0	7,662.0	8,246.2	7,252.0	33.5	0.0	-66.98	752.4	-268.9	1,049.1	1,019.5	29.67	35.363		
8,800.0	7,662.0	8,346.1	7,252.0	34.4	0.0	-66.89	852.3	-269.8	1,045.4	1,014.9	30.48	34.293		
8,900.0	7,662.0	8,446.1	7,252.0	35.4	0.0	-66.81	952.2	-270.6	1,041.7	1,010.4	31.37	33.211		
9,000.0	7,662.0	8,546.0	7,252.0	36.4	0.0	-66.72	1,052.2	-271.4	1,038.0	1,005.7	32.31	32.129		
9,100.0	7,662.0	8,645.9	7,252.0	37.5	0.0	-66.63	1,152.1	-272.2	1,034.3	1,001.0	33.30	31.057		
9,200.0	7,662.0	8,745.8	7,252.0	38.6	0.0	-66.54	1,252.0	-273.1	1,030.6	996.3	34.35	30.005		
9,300.0	7,662.0	8,845.7	7,252.0	39.8	0.0	-66.45	1,351.9	-273.9	1,026.9	991.5	35.44	28.978		
9,400.0	7,662.0	8,945.7	7,252.0	41.0	0.0	-66.36	1,451.8	-274.7	1,023.2	986.7	36.57	27.982		
9,500.0	7,662.0	9,045.6	7,252.0	42.3	0.0	-66.27	1,551.7	-275.5	1,019.6	981.8	37.73	27.019		
9,600.0	7,662.0	9,145.5	7,252.0	43.6	0.0	-66.18	1,651.6	-276.4	1,015.9	976.9	38.93	26.093		
9,700.0	7,662.0	9,245.4	7,252.0	44.9	0.0	-66.09	1,751.6	-277.2	1,012.2	972.0	40.16	25.203		
9,800.0	7,662.0	9,345.3	7,252.0	46.3	0.0	-66.00	1,851.5	-278.0	1,008.5	967.1	41.42	24.350		
9,900.0	7,662.0	9,445.2	7,252.0	47.7	0.0	-65.90	1,951.4	-278.8	1,004.8	962.1	42.70	23.534		
10,000.0	7,662.0	9,545.2	7,252.0	49.1	0.0	-65.81	2,051.3	-279.7	1,001.2	957.2	44.00	22.755		
10,100.0	7,662.0	9,645.1	7,252.0	50.5	0.0	-65.71	2,151.2	-280.5	997.5	952.2	45.32	22.011		
10,200.0	7,662.0	9,745.0	7,252.0	52.0	0.0	-65.62	2,251.1	-281.3	993.8	947.2	46.66	21.301		
10,300.0	7,662.0	9,844.9	7,252.0	53.4	0.0	-65.52	2,351.1	-282.1	990.2	942.2	48.01	20.623		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	9,944.8	7,252.0	54.9	0.0	-65.42	2,451.0	-283.0	986.5	937.1	49.38	19.977		
10,500.0	7,662.0	10,044.8	7,252.0	56.4	0.0	-65.33	2,550.9	-283.8	982.8	932.1	50.76	19.361		
10,600.0	7,662.0	10,144.7	7,252.0	58.0	0.0	-65.23	2,650.8	-284.6	979.2	927.0	52.16	18.774		
10,700.0	7,662.0	10,244.6	7,252.0	59.5	0.0	-65.13	2,750.7	-285.5	975.5	922.0	53.56	18.214		
10,800.0	7,662.0	10,344.5	7,252.0	61.1	0.0	-65.03	2,850.6	-286.3	971.9	916.9	54.97	17.679		
10,900.0	7,662.0	10,444.4	7,252.0	62.6	0.0	-64.93	2,950.5	-287.1	968.2	911.8	56.40	17.168		
11,000.0	7,662.0	10,544.4	7,252.0	64.2	0.0	-64.83	3,050.5	-287.9	964.6	906.8	57.83	16.681		
11,100.0	7,662.0	10,644.3	7,252.0	65.8	0.0	-64.73	3,150.4	-288.8	961.0	901.7	59.26	16.215		
11,200.0	7,662.0	10,744.2	7,252.0	67.4	0.0	-64.68	3,250.3	-289.6	958.7	898.0	60.73	15.787		
11,228.6	7,662.0	10,772.8	7,252.0	67.8	0.0	-64.68	3,278.9	-289.8	958.6	897.5	61.15	15.677		
11,300.0	7,662.0	10,844.2	7,252.0	69.0	0.0	-64.70	3,350.3	-290.4	959.5	897.3	62.22	15.421		
11,400.0	7,662.0	10,944.2	7,252.0	70.6	0.0	-64.75	3,450.3	-291.2	961.2	897.5	63.72	15.085		
11,500.0	7,662.0	11,044.2	7,252.0	72.2	0.0	-64.80	3,550.3	-292.1	962.9	897.7	65.23	14.762		
11,600.0	7,662.0	11,144.2	7,252.0	73.8	0.0	-64.84	3,650.3	-292.9	964.7	897.9	66.75	14.452		
11,700.0	7,662.0	11,244.2	7,252.0	75.4	0.0	-64.89	3,750.2	-293.7	966.4	898.1	68.27	14.155		
11,800.0	7,662.0	11,344.1	7,252.0	77.0	0.0	-64.94	3,850.2	-294.5	968.1	898.3	69.80	13.870		
11,900.0	7,662.0	11,444.1	7,252.0	78.7	0.0	-64.99	3,950.2	-295.4	969.8	898.5	71.33	13.595		
12,000.0	7,662.0	11,544.1	7,252.0	80.3	0.0	-65.03	4,050.2	-296.2	971.5	898.7	72.87	13.332		
12,100.0	7,662.0	11,644.1	7,252.0	81.9	0.0	-65.08	4,150.2	-297.0	973.2	898.8	74.42	13.078		
12,200.0	7,662.0	11,744.1	7,252.0	83.6	0.0	-65.13	4,250.1	-297.9	975.0	899.0	75.97	12.833		
12,300.0	7,662.0	11,844.1	7,252.0	85.2	0.0	-65.17	4,350.1	-298.7	976.7	899.2	77.53	12.598		
12,400.0	7,662.0	11,944.0	7,252.0	86.9	0.0	-65.22	4,450.1	-299.5	978.4	899.3	79.09	12.371		
12,500.0	7,662.0	12,044.0	7,252.0	88.5	0.0	-65.27	4,550.1	-300.3	980.1	899.5	80.65	12.152		
12,600.0	7,662.0	12,144.0	7,252.0	90.2	0.0	-65.31	4,650.1	-301.2	981.9	899.6	82.22	11.941		
12,700.0	7,662.0	12,244.0	7,252.0	91.8	0.0	-65.36	4,750.0	-302.0	983.6	899.8	83.80	11.737		
12,800.0	7,662.0	12,344.0	7,252.0	93.5	0.0	-65.41	4,850.0	-302.8	985.3	899.9	85.38	11.541		
12,900.0	7,662.0	12,443.9	7,252.0	95.2	0.0	-65.45	4,950.0	-303.6	987.0	900.1	86.96	11.351		
13,000.0	7,662.0	12,543.9	7,252.0	96.9	0.0	-65.50	5,050.0	-304.5	988.8	900.2	88.54	11.167		
13,100.0	7,662.0	12,643.9	7,252.0	98.5	0.0	-65.54	5,149.9	-305.3	990.5	900.4	90.13	10.990		
13,200.0	7,662.0	12,743.9	7,252.0	100.2	0.0	-65.59	5,249.9	-306.1	992.2	900.5	91.72	10.818		
13,300.0	7,662.0	12,843.9	7,252.0	101.9	0.0	-65.63	5,349.9	-307.0	993.9	900.6	93.32	10.651		
13,400.0	7,662.0	12,943.9	7,252.0	103.6	0.0	-65.68	5,449.9	-307.8	995.7	900.8	94.91	10.490		
13,500.0	7,662.0	13,043.8	7,252.0	105.3	0.0	-65.72	5,549.9	-308.6	997.4	900.9	96.51	10.334		
13,600.0	7,662.0	13,143.8	7,252.0	107.0	0.0	-65.77	5,649.8	-309.4	999.1	901.0	98.12	10.183		
13,700.0	7,662.0	13,243.8	7,252.0	108.7	0.0	-65.81	5,749.8	-310.3	1,000.9	901.1	99.72	10.037		
13,800.0	7,662.0	13,343.8	7,252.0	110.3	0.0	-65.86	5,849.8	-311.1	1,002.6	901.3	101.33	9.894		
13,900.0	7,662.0	13,443.8	7,252.0	112.0	0.0	-65.90	5,949.8	-311.9	1,004.3	901.4	102.94	9.756		
14,000.0	7,662.0	13,543.7	7,252.0	113.7	0.0	-65.95	6,049.8	-312.7	1,006.1	901.5	104.55	9.622		
14,100.0	7,662.0	13,643.7	7,252.0	115.4	0.0	-65.99	6,149.7	-313.6	1,007.8	901.6	106.17	9.492		
14,200.0	7,662.0	13,743.7	7,252.0	117.1	0.0	-66.03	6,249.7	-314.4	1,009.5	901.7	107.79	9.366		
14,300.0	7,662.0	13,843.7	7,252.0	118.8	0.0	-66.08	6,349.7	-315.2	1,011.3	901.8	109.41	9.243		
14,400.0	7,662.0	13,943.7	7,252.0	120.5	0.0	-66.12	6,449.7	-316.1	1,013.0	902.0	111.03	9.124		
14,500.0	7,662.0	14,043.7	7,252.0	122.3	0.0	-66.16	6,549.6	-316.9	1,014.7	902.1	112.65	9.008		
14,600.0	7,662.0	14,143.6	7,252.0	124.0	0.0	-66.21	6,649.6	-317.7	1,016.5	902.2	114.28	8.895		
14,700.0	7,662.0	14,243.6	7,252.0	125.7	0.0	-66.25	6,749.6	-318.5	1,018.2	902.3	115.91	8.785		
14,800.0	7,662.0	14,343.6	7,252.0	127.4	0.0	-66.29	6,849.6	-319.4	1,019.9	902.4	117.54	8.678		
14,900.0	7,662.0	14,443.6	7,252.0	129.1	0.0	-66.34	6,949.6	-320.2	1,021.7	902.5	119.17	8.573		
15,000.0	7,662.0	14,543.6	7,252.0	130.8	0.0	-66.38	7,049.5	-321.0	1,023.4	902.6	120.80	8.472		
15,100.0	7,662.0	14,643.5	7,252.0	132.5	0.0	-66.42	7,149.5	-321.8	1,025.1	902.7	122.44	8.373		
15,200.0	7,662.0	14,743.5	7,252.0	134.2	0.0	-66.46	7,249.5	-322.7	1,026.9	902.8	124.07	8.277		
15,300.0	7,662.0	14,843.5	7,252.0	136.0	0.0	-66.51	7,349.5	-323.5	1,028.6	902.9	125.71	8.183		
15,400.0	7,662.0	14,943.5	7,252.0	137.7	0.0	-66.55	7,449.5	-324.3	1,030.4	903.0	127.35	8.091		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-2NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,500.0	7,662.0	15,043.5	7,252.0	139.4	0.0	-66.59	7,549.4	-325.1	1,032.1	903.1	128.99	8.001		
15,600.0	7,662.0	15,143.5	7,252.0	141.1	0.0	-66.63	7,649.4	-326.0	1,033.9	903.2	130.63	7.914		
15,700.0	7,662.0	15,243.4	7,252.0	142.8	0.0	-66.67	7,749.4	-326.8	1,035.6	903.3	132.28	7.829		
15,800.0	7,662.0	15,343.4	7,252.0	144.5	0.0	-66.72	7,849.4	-327.6	1,037.3	903.4	133.92	7.746		
15,900.0	7,662.0	15,443.4	7,252.0	146.3	0.0	-66.76	7,949.3	-328.5	1,039.1	903.5	135.57	7.664		
16,000.0	7,662.0	15,543.4	7,252.0	148.0	0.0	-66.80	8,049.3	-329.3	1,040.8	903.6	137.22	7.585		
16,100.0	7,662.0	15,643.4	7,252.0	149.7	0.0	-66.84	8,149.3	-330.1	1,042.6	903.7	138.87	7.508		
16,200.0	7,662.0	15,743.3	7,252.0	151.4	0.0	-66.88	8,249.3	-330.9	1,044.3	903.8	140.52	7.432		
16,300.0	7,662.0	15,843.3	7,252.0	153.2	0.0	-66.92	8,349.3	-331.8	1,046.1	903.9	142.17	7.358		
16,400.0	7,662.0	15,943.3	7,252.0	154.9	0.0	-66.96	8,449.2	-332.6	1,047.8	904.0	143.83	7.285		
16,500.0	7,662.0	16,043.3	7,252.0	156.6	0.0	-67.00	8,549.2	-333.4	1,049.5	904.1	145.48	7.214		
16,600.0	7,662.0	16,143.3	7,252.0	158.4	0.0	-67.04	8,649.2	-334.2	1,051.3	904.2	147.14	7.145		
16,700.0	7,662.0	16,243.3	7,252.0	160.1	0.0	-67.08	8,749.2	-335.1	1,053.0	904.2	148.79	7.077		
16,800.0	7,662.0	16,343.2	7,252.0	161.8	0.0	-67.12	8,849.2	-335.9	1,054.8	904.3	150.45	7.011		
16,900.0	7,662.0	16,443.2	7,252.0	163.5	0.0	-67.16	8,949.1	-336.7	1,056.5	904.4	152.11	6.946		
17,000.0	7,662.0	16,543.2	7,252.0	165.3	0.0	-67.20	9,049.1	-337.6	1,058.3	904.5	153.77	6.882		
17,100.0	7,662.0	16,643.2	7,252.0	167.0	0.0	-67.24	9,149.1	-338.4	1,060.0	904.6	155.43	6.820		
17,200.0	7,662.0	16,743.2	7,252.0	168.7	0.0	-67.28	9,249.1	-339.2	1,061.8	904.7	157.10	6.759		
17,300.0	7,662.0	16,843.2	7,252.0	170.5	0.0	-67.32	9,349.0	-340.0	1,063.5	904.8	158.76	6.699		
17,400.0	7,662.0	16,943.1	7,252.0	172.2	0.0	-67.36	9,449.0	-340.9	1,065.3	904.9	160.43	6.640		
17,500.0	7,662.0	17,043.1	7,252.0	173.9	0.0	-67.40	9,549.0	-341.7	1,067.0	904.9	162.09	6.583		
17,600.0	7,662.0	17,143.1	7,252.0	175.7	0.0	-67.44	9,649.0	-342.5	1,068.8	905.0	163.76	6.527		
17,700.0	7,662.0	17,243.1	7,252.0	177.4	0.0	-67.48	9,749.0	-343.3	1,070.5	905.1	165.43	6.471		
17,800.0	7,662.0	17,343.1	7,252.0	179.1	0.0	-67.52	9,848.9	-344.2	1,072.3	905.2	167.09	6.417		
17,850.8	7,662.0	17,385.9	7,252.0	180.0	0.0	-67.53	9,891.7	-344.5	1,073.2	905.3	167.88	6.393 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.77	0.2	45.0	45.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.77	0.2	45.0	45.0	44.8	0.28	162.679		
200.0	200.0	200.0	200.0	1.0	0.0	89.77	0.2	45.0	45.0	44.2	0.80	56.477		
300.0	300.0	300.0	300.0	1.5	0.0	89.77	0.2	45.0	45.0	43.8	1.22	36.796		
400.0	400.0	400.0	400.0	1.9	0.0	89.77	0.2	45.0	45.0	43.4	1.62	27.838		
500.0	500.0	500.0	500.0	2.3	0.0	89.77	0.2	45.0	45.0	43.0	2.00	22.536		
600.0	600.0	600.0	600.0	2.7	0.0	89.77	0.2	45.0	45.0	42.7	2.37	18.986		
700.0	700.0	700.0	700.0	3.1	0.0	89.77	0.2	45.0	45.0	42.3	2.74	16.426		
800.0	800.0	800.0	800.0	3.5	0.0	89.77	0.2	45.0	45.0	41.9	3.11	14.487		
900.0	900.0	900.0	900.0	3.9	0.0	89.77	0.2	45.0	45.0	41.6	3.47	12.963 CC, ES		
1,000.0	1,000.0	998.5	998.5	4.2	0.0	90.47	-0.4	46.6	46.7	42.8	3.83	12.193		
1,100.0	1,100.0	1,096.8	1,096.6	4.6	0.0	92.32	-2.1	51.4	51.5	47.4	4.16	12.401		
1,200.0	1,200.0	1,194.6	1,194.1	5.0	0.0	94.72	-4.9	59.3	59.8	55.3	4.47	13.366		
1,300.0	1,300.0	1,291.9	1,290.7	5.3	0.0	-27.34	-8.8	70.2	69.9	65.0	4.89	14.295		
1,400.0	1,399.8	1,388.9	1,386.5	5.6	0.0	-26.51	-13.8	84.2	80.2	74.7	5.47	14.670		
1,500.0	1,499.5	1,485.5	1,481.5	6.3	0.0	-26.37	-19.8	101.2	90.7	84.7	6.01	15.092		
1,600.0	1,598.7	1,581.8	1,575.4	7.0	0.0	-26.70	-26.9	121.1	101.3	94.8	6.51	15.564		
1,700.0	1,697.7	1,681.0	1,671.7	7.3	0.0	-27.35	-34.9	143.3	111.9	105.1	6.79	16.474		
1,800.0	1,796.6	1,780.4	1,768.3	7.6	0.0	-27.91	-42.8	165.6	122.4	115.3	7.08	17.274		
1,900.0	1,895.6	1,879.9	1,864.9	7.9	0.0	-28.39	-50.8	188.0	132.9	125.5	7.39	17.986		
2,000.0	1,994.5	1,979.3	1,961.5	8.2	0.0	-28.79	-58.7	210.3	143.4	135.7	7.70	18.623		
2,100.0	2,093.4	2,078.8	2,058.0	8.6	0.0	-29.14	-66.7	232.6	154.0	146.0	8.02	19.193		
2,200.0	2,192.4	2,178.2	2,154.6	8.9	0.0	-29.44	-74.6	254.9	164.5	156.2	8.35	19.704		
2,300.0	2,291.3	2,277.6	2,251.2	9.3	0.0	-29.71	-82.6	277.2	175.1	166.4	8.68	20.164		
2,400.0	2,390.3	2,377.1	2,347.8	9.6	0.0	-29.94	-90.5	299.5	185.6	176.6	9.02	20.578		
2,500.0	2,489.2	2,476.5	2,444.4	10.0	0.0	-30.15	-98.5	321.8	196.2	186.8	9.36	20.953		
2,600.0	2,588.2	2,576.0	2,540.9	10.3	0.0	-30.34	-106.4	344.1	206.7	197.0	9.71	21.293		
2,700.0	2,687.1	2,675.4	2,637.5	10.7	0.0	-30.51	-114.4	366.4	217.3	207.2	10.06	21.602		
2,800.0	2,786.1	2,774.8	2,734.1	11.1	0.0	-30.67	-122.3	388.7	227.8	217.4	10.41	21.884		
2,900.0	2,885.0	2,874.3	2,830.7	11.5	0.0	-30.81	-130.3	411.0	238.4	227.6	10.77	22.141		
3,000.0	2,984.0	2,973.7	2,927.2	11.9	0.0	-30.94	-138.2	433.3	249.0	237.8	11.13	22.376		
3,100.0	3,082.9	3,073.1	3,023.8	12.3	0.0	-31.06	-146.2	455.6	259.5	248.0	11.49	22.593		
3,200.0	3,181.9	3,172.6	3,120.4	12.7	0.0	-31.17	-154.1	477.9	270.1	258.2	11.85	22.792		
3,300.0	3,280.8	3,272.0	3,217.0	13.1	0.0	-31.27	-162.1	500.2	280.7	268.4	12.22	22.975		
3,400.0	3,379.8	3,371.5	3,313.6	13.5	0.0	-31.36	-170.0	522.6	291.2	278.6	12.58	23.145		
3,500.0	3,478.7	3,470.9	3,410.1	13.9	0.0	-31.45	-178.0	544.9	301.8	288.8	12.95	23.302		
3,600.0	3,577.7	3,570.3	3,506.7	14.3	0.0	-31.53	-185.9	567.2	312.4	299.0	13.32	23.448		
3,700.0	3,676.6	3,669.8	3,603.3	14.7	0.0	-31.61	-193.9	589.5	322.9	309.2	13.69	23.584		
3,800.0	3,775.6	3,769.2	3,699.9	15.1	0.0	-31.68	-201.8	611.8	333.5	319.4	14.07	23.710		
3,900.0	3,874.5	3,868.7	3,796.4	15.6	0.0	-31.75	-209.8	634.1	344.1	329.6	14.44	23.828		
4,000.0	3,973.5	3,968.1	3,893.0	16.0	0.0	-31.81	-217.7	656.4	354.6	339.8	14.81	23.938		
4,100.0	4,072.4	4,067.5	3,989.6	16.4	0.0	-31.87	-225.7	678.7	365.2	350.0	15.19	24.042		
4,200.0	4,171.4	4,167.0	4,086.2	16.8	0.0	-31.92	-233.6	701.0	375.8	360.2	15.57	24.138		
4,300.0	4,270.3	4,266.4	4,182.8	17.2	0.0	-31.98	-241.6	723.3	386.3	370.4	15.95	24.229		
4,400.0	4,369.3	4,365.9	4,279.3	17.7	0.0	-32.03	-249.5	745.6	396.9	380.6	16.32	24.315		
4,500.0	4,468.2	4,465.3	4,375.9	18.1	0.0	-32.07	-257.5	767.9	407.5	390.8	16.70	24.396		
4,600.0	4,567.2	4,564.7	4,472.5	18.5	0.0	-32.12	-265.4	790.2	418.1	401.0	17.08	24.472		
4,700.0	4,666.1	4,664.2	4,569.1	18.9	0.0	-32.16	-273.4	812.5	428.6	411.2	17.46	24.544		
4,800.0	4,765.1	4,763.6	4,665.7	19.4	0.0	-32.20	-281.3	834.8	439.2	421.4	17.85	24.612		
4,900.0	4,864.0	4,863.1	4,762.2	19.8	0.0	-32.24	-289.3	857.2	449.8	431.5	18.23	24.676		
5,000.0	4,962.9	4,962.5	4,858.8	20.2	0.0	-32.28	-297.2	879.5	460.3	441.7	18.61	24.737		
5,100.0	5,061.9	5,061.9	4,955.4	20.6	0.0	-32.31	-305.2	901.8	470.9	451.9	18.99	24.795		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,161.4	5,052.0	21.1	0.0	-32.35	-313.1	924.1	481.5	462.1	19.38	24.850		
5,300.0	5,259.8	5,260.8	5,148.5	21.5	0.0	-32.38	-321.1	946.4	492.1	472.3	19.76	24.902		
5,400.0	5,358.7	5,360.2	5,245.1	21.9	0.0	-32.41	-329.0	968.7	502.6	482.5	20.14	24.952		
5,500.0	5,457.7	5,459.7	5,341.7	22.3	0.0	-32.44	-337.0	991.0	513.2	492.7	20.53	25.000		
5,600.0	5,556.6	5,559.1	5,438.3	22.8	0.0	-32.47	-344.9	1,013.3	523.8	502.9	20.91	25.045		
5,700.0	5,655.6	5,658.6	5,534.9	23.2	0.0	-32.50	-352.9	1,035.6	534.4	513.1	21.30	25.088		
5,800.0	5,754.5	5,758.0	5,631.4	23.6	0.0	-32.52	-360.8	1,057.9	544.9	523.2	21.68	25.130		
5,900.0	5,853.5	5,857.4	5,728.0	24.1	0.0	-32.55	-368.8	1,080.2	555.5	533.4	22.07	25.169		
6,000.0	5,952.4	5,956.9	5,824.6	24.5	0.0	-32.57	-376.7	1,102.5	566.1	543.6	22.46	25.207		
6,100.0	6,051.4	6,056.3	5,921.2	24.9	0.0	-32.60	-384.7	1,124.8	576.6	553.8	22.84	25.243		
6,200.0	6,150.3	6,155.8	6,017.7	25.4	0.0	-32.62	-392.6	1,147.1	587.2	564.0	23.23	25.278		
6,300.0	6,249.3	6,255.2	6,114.3	25.8	0.0	-32.64	-400.6	1,169.5	597.8	574.2	23.62	25.311		
6,400.0	6,348.2	6,354.6	6,210.9	26.2	0.0	-32.66	-408.5	1,191.8	608.4	584.4	24.01	25.343		
6,500.0	6,447.2	6,454.1	6,307.5	26.6	0.0	-32.68	-416.5	1,214.1	618.9	594.5	24.39	25.373		
6,600.0	6,546.1	6,553.5	6,404.1	27.1	0.0	-32.70	-424.4	1,236.4	629.5	604.7	24.78	25.403		
6,700.0	6,645.1	6,653.0	6,500.6	27.5	0.0	-32.72	-432.4	1,258.7	640.1	614.9	25.17	25.431		
6,800.0	6,744.0	6,752.4	6,597.2	27.9	0.0	-32.74	-440.3	1,281.0	650.7	625.1	25.56	25.459		
6,900.0	6,843.0	6,851.8	6,693.8	28.4	0.0	-32.76	-448.3	1,303.3	661.2	635.3	25.95	25.485		
7,000.0	6,941.9	6,951.6	6,790.7	28.8	0.0	-32.80	-456.0	1,325.7	671.8	645.5	26.34	25.508		
7,100.0	7,040.9	7,051.1	6,887.5	29.2	0.0	-33.81	-452.1	1,347.9	682.3	655.5	26.77	25.490		
7,200.0	7,140.1	7,146.3	6,978.2	29.7	0.0	35.14	-432.5	1,368.7	693.6	666.4	27.21	25.492		
7,300.0	7,237.8	7,238.6	7,061.9	30.0	0.0	62.50	-398.9	1,387.7	705.9	678.2	27.76	25.432		
7,400.0	7,331.2	7,328.4	7,137.4	30.5	0.0	69.06	-353.5	1,404.7	718.8	690.7	28.08	25.599		
7,500.0	7,417.3	7,416.2	7,203.7	30.9	0.0	70.78	-297.9	1,419.5	731.6	703.4	28.24	25.903		
7,600.0	7,493.6	7,500.0	7,258.5	31.1	0.0	70.93	-235.8	1,431.6	743.9	715.6	28.32	26.269		
7,700.0	7,557.7	7,587.5	7,305.6	31.2	0.0	70.46	-163.0	1,441.8	755.2	726.8	28.41	26.585		
7,800.0	7,607.6	7,671.6	7,340.4	31.3	0.0	69.84	-86.8	1,449.2	765.1	736.6	28.51	26.838		
7,900.0	7,642.0	7,755.2	7,363.7	31.2	0.0	69.25	-6.8	1,453.9	773.2	744.6	28.68	26.964		
8,000.0	7,659.6	7,838.5	7,375.5	31.1	0.0	68.78	75.6	1,456.0	779.3	750.4	28.94	26.932		
8,100.0	7,662.0	7,930.1	7,377.0	31.0	0.0	68.65	167.1	1,455.5	783.4	754.1	29.29	26.750		
8,200.0	7,662.0	8,030.0	7,377.0	31.0	0.0	68.76	267.1	1,454.7	787.2	757.5	29.70	26.505		
8,300.0	7,662.0	8,129.9	7,377.0	31.0	0.0	68.86	367.0	1,453.9	790.9	760.7	30.20	26.186		
8,400.0	7,662.0	8,229.8	7,377.0	31.3	0.0	68.97	466.9	1,453.1	794.7	763.9	30.79	25.806		
8,500.0	7,662.0	8,329.8	7,377.0	31.9	0.0	69.07	566.8	1,452.2	798.4	767.0	31.46	25.376		
8,600.0	7,662.0	8,429.7	7,377.0	32.7	0.0	69.17	666.7	1,451.4	802.2	770.0	32.21	24.906		
8,700.0	7,662.0	8,529.6	7,377.0	33.5	0.0	69.28	766.6	1,450.6	805.9	772.9	33.02	24.405		
8,800.0	7,662.0	8,629.5	7,377.0	34.4	0.0	69.38	866.5	1,449.8	809.7	775.8	33.90	23.882		
8,900.0	7,662.0	8,729.4	7,377.0	35.4	0.0	69.48	966.5	1,448.9	813.5	778.6	34.85	23.345		
9,000.0	7,662.0	8,829.3	7,377.0	36.4	0.0	69.58	1,066.4	1,448.1	817.3	781.4	35.84	22.801		
9,100.0	7,662.0	8,929.3	7,377.0	37.5	0.0	69.67	1,166.3	1,447.3	821.0	784.1	36.89	22.254		
9,200.0	7,662.0	9,029.2	7,377.0	38.6	0.0	69.77	1,266.2	1,446.4	824.8	786.8	37.99	21.711		
9,300.0	7,662.0	9,129.1	7,377.0	39.8	0.0	69.87	1,366.1	1,445.6	828.6	789.4	39.13	21.175		
9,400.0	7,662.0	9,229.0	7,377.0	41.0	0.0	69.96	1,466.0	1,444.8	832.4	792.0	40.31	20.648		
9,500.0	7,662.0	9,328.9	7,377.0	42.3	0.0	70.06	1,566.0	1,444.0	836.1	794.6	41.53	20.133		
9,600.0	7,662.0	9,428.9	7,377.0	43.6	0.0	70.15	1,665.9	1,443.1	839.9	797.1	42.78	19.632		
9,700.0	7,662.0	9,528.8	7,377.0	44.9	0.0	70.24	1,765.8	1,442.3	843.7	799.6	44.07	19.146		
9,800.0	7,662.0	9,628.7	7,377.0	46.3	0.0	70.33	1,865.7	1,441.5	847.5	802.1	45.38	18.676		
9,900.0	7,662.0	9,728.6	7,377.0	47.7	0.0	70.43	1,965.6	1,440.7	851.3	804.6	46.72	18.222		
10,000.0	7,662.0	9,828.5	7,377.0	49.1	0.0	70.52	2,065.5	1,439.8	855.1	807.0	48.08	17.784		
10,100.0	7,662.0	9,928.5	7,377.0	50.5	0.0	70.61	2,165.4	1,439.0	858.9	809.4	49.47	17.362		
10,200.0	7,662.0	10,028.4	7,377.0	52.0	0.0	70.69	2,265.4	1,438.2	862.7	811.8	50.88	16.957		
10,300.0	7,662.0	10,128.3	7,377.0	53.4	0.0	70.78	2,365.3	1,437.4	866.5	814.2	52.30	16.567		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NBH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.0	7,662.0	10,228.2	7,377.0	54.9	0.0	70.87	2,465.2	1,436.5	870.3	816.5	53.75	16.193	
10,500.0	7,662.0	10,328.1	7,377.0	56.4	0.0	70.96	2,565.1	1,435.7	874.1	818.9	55.21	15.833	
10,600.0	7,662.0	10,428.0	7,377.0	58.0	0.0	71.04	2,665.0	1,434.9	877.9	821.2	56.68	15.488	
10,700.0	7,662.0	10,528.0	7,377.0	59.5	0.0	71.13	2,764.9	1,434.1	881.7	823.5	58.17	15.157	
10,800.0	7,662.0	10,627.9	7,377.0	61.1	0.0	71.21	2,864.9	1,433.2	885.5	825.8	59.67	14.839	
10,900.0	7,662.0	10,727.8	7,377.0	62.6	0.0	71.29	2,964.8	1,432.4	889.3	828.1	61.19	14.534	
11,000.0	7,662.0	10,827.7	7,377.0	64.2	0.0	71.38	3,064.7	1,431.6	893.1	830.4	62.72	14.241	
11,100.0	7,662.0	10,927.6	7,377.0	65.8	0.0	71.46	3,164.6	1,430.7	896.9	832.7	64.26	13.959	
11,200.0	7,662.0	11,027.6	7,377.0	67.4	0.0	71.52	3,264.6	1,429.9	899.3	833.5	65.80	13.667	
11,300.0	7,662.0	11,127.6	7,377.0	69.0	0.0	71.50	3,364.6	1,429.1	898.5	831.1	67.33	13.344	
11,400.0	7,662.0	11,227.6	7,377.0	70.6	0.0	71.46	3,464.5	1,428.3	896.7	827.8	68.84	13.025	
11,500.0	7,662.0	11,327.6	7,377.0	72.2	0.0	71.43	3,564.5	1,427.4	894.9	824.5	70.36	12.718	
11,600.0	7,662.0	11,427.5	7,377.0	73.8	0.0	71.39	3,664.5	1,426.6	893.1	821.2	71.89	12.423	
11,700.0	7,662.0	11,527.5	7,377.0	75.4	0.0	71.35	3,764.5	1,425.8	891.3	817.9	73.42	12.140	
11,800.0	7,662.0	11,627.5	7,377.0	77.0	0.0	71.31	3,864.4	1,425.0	889.5	814.5	74.96	11.866	
11,900.0	7,662.0	11,727.5	7,377.0	78.7	0.0	71.27	3,964.4	1,424.1	887.7	811.2	76.50	11.604	
12,000.0	7,662.0	11,827.5	7,377.0	80.3	0.0	71.23	4,064.4	1,423.3	885.9	807.8	78.05	11.350	
12,100.0	7,662.0	11,927.5	7,377.0	81.9	0.0	71.19	4,164.4	1,422.5	884.1	804.5	79.60	11.106	
12,200.0	7,662.0	12,027.4	7,377.0	83.6	0.0	71.15	4,264.4	1,421.7	882.3	801.1	81.16	10.871	
12,300.0	7,662.0	12,127.4	7,377.0	85.2	0.0	71.11	4,364.3	1,420.8	880.5	797.8	82.72	10.644	
12,400.0	7,662.0	12,227.4	7,377.0	86.9	0.0	71.07	4,464.3	1,420.0	878.7	794.4	84.28	10.426	
12,500.0	7,662.0	12,327.4	7,377.0	88.5	0.0	71.03	4,564.3	1,419.2	876.9	791.1	85.85	10.214	
12,600.0	7,662.0	12,427.4	7,377.0	90.2	0.0	70.99	4,664.3	1,418.3	875.1	787.7	87.42	10.010	
12,700.0	7,662.0	12,527.3	7,377.0	91.8	0.0	70.95	4,764.3	1,417.5	873.3	784.3	89.00	9.813	
12,800.0	7,662.0	12,627.3	7,377.0	93.5	0.0	70.91	4,864.2	1,416.7	871.5	781.0	90.57	9.623	
12,900.0	7,662.0	12,727.3	7,377.0	95.2	0.0	70.87	4,964.2	1,415.9	869.7	777.6	92.15	9.438	
13,000.0	7,662.0	12,827.3	7,377.0	96.9	0.0	70.83	5,064.2	1,415.0	867.9	774.2	93.73	9.260	
13,100.0	7,662.0	12,927.3	7,377.0	98.5	0.0	70.79	5,164.2	1,414.2	866.2	770.8	95.32	9.087	
13,200.0	7,662.0	13,027.3	7,377.0	100.2	0.0	70.74	5,264.1	1,413.4	864.4	767.5	96.90	8.920	
13,300.0	7,662.0	13,127.2	7,377.0	101.9	0.0	70.70	5,364.1	1,412.6	862.6	764.1	98.49	8.758	
13,400.0	7,662.0	13,227.2	7,377.0	103.6	0.0	70.66	5,464.1	1,411.7	860.8	760.7	100.08	8.601	
13,500.0	7,662.0	13,327.2	7,377.0	105.3	0.0	70.62	5,564.1	1,410.9	859.0	757.3	101.67	8.449	
13,600.0	7,662.0	13,427.2	7,377.0	107.0	0.0	70.58	5,664.1	1,410.1	857.2	753.9	103.26	8.301	
13,700.0	7,662.0	13,527.2	7,377.0	108.7	0.0	70.54	5,764.0	1,409.2	855.4	750.6	104.86	8.158	
13,800.0	7,662.0	13,627.2	7,377.0	110.3	0.0	70.49	5,864.0	1,408.4	853.6	747.2	106.45	8.019	
13,900.0	7,662.0	13,727.1	7,377.0	112.0	0.0	70.45	5,964.0	1,407.6	851.8	743.8	108.05	7.884	
14,000.0	7,662.0	13,827.1	7,377.0	113.7	0.0	70.41	6,064.0	1,406.8	850.1	740.4	109.64	7.753	
14,100.0	7,662.0	13,927.1	7,377.0	115.4	0.0	70.36	6,164.0	1,405.9	848.3	737.0	111.24	7.625	
14,200.0	7,662.0	14,027.1	7,377.0	117.1	0.0	70.32	6,263.9	1,405.1	846.5	733.6	112.84	7.501	
14,300.0	7,662.0	14,127.1	7,377.0	118.8	0.0	70.28	6,363.9	1,404.3	844.7	730.2	114.44	7.381	
14,400.0	7,662.0	14,227.0	7,377.0	120.5	0.0	70.23	6,463.9	1,403.5	842.9	726.9	116.04	7.264	
14,500.0	7,662.0	14,327.0	7,377.0	122.3	0.0	70.19	6,563.9	1,402.6	841.1	723.5	117.65	7.150	
14,600.0	7,662.0	14,427.0	7,377.0	124.0	0.0	70.15	6,663.8	1,401.8	839.3	720.1	119.25	7.039	
14,700.0	7,662.0	14,527.0	7,377.0	125.7	0.0	70.10	6,763.8	1,401.0	837.6	716.7	120.85	6.930	
14,800.0	7,662.0	14,627.0	7,377.0	127.4	0.0	70.06	6,863.8	1,400.2	835.8	713.3	122.45	6.825	
14,900.0	7,662.0	14,727.0	7,377.0	129.1	0.0	70.01	6,963.8	1,399.3	834.0	709.9	124.06	6.723	
15,000.0	7,662.0	14,826.9	7,377.0	130.8	0.0	69.97	7,063.8	1,398.5	832.2	706.5	125.66	6.623	
15,100.0	7,662.0	14,926.9	7,377.0	132.5	0.0	69.92	7,163.7	1,397.7	830.4	703.2	127.27	6.525	
15,200.0	7,662.0	15,026.9	7,377.0	134.2	0.0	69.88	7,263.7	1,396.8	828.6	699.8	128.87	6.430	
15,300.0	7,662.0	15,126.9	7,377.0	136.0	0.0	69.83	7,363.7	1,396.0	826.9	696.4	130.48	6.337	
15,400.0	7,662.0	15,226.9	7,377.0	137.7	0.0	69.79	7,463.7	1,395.2	825.1	693.0	132.08	6.247	
15,500.0	7,662.0	15,326.8	7,377.0	139.4	0.0	69.74	7,563.7	1,394.4	823.3	689.6	133.69	6.158	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NBH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.0	7,662.0	15,426.8	7,377.0	141.1	0.0	69.70	7,663.6	1,393.5	821.5	686.2	135.29	6.072	
15,700.0	7,662.0	15,526.8	7,377.0	142.8	0.0	69.65	7,763.6	1,392.7	819.7	682.8	136.90	5.988	
15,800.0	7,662.0	15,626.8	7,377.0	144.5	0.0	69.61	7,863.6	1,391.9	818.0	679.5	138.50	5.906	
15,900.0	7,662.0	15,726.8	7,377.0	146.3	0.0	69.56	7,963.6	1,391.1	816.2	676.1	140.11	5.825	
16,000.0	7,662.0	15,826.8	7,377.0	148.0	0.0	69.51	8,063.5	1,390.2	814.4	672.7	141.71	5.747	
16,100.0	7,662.0	15,926.7	7,377.0	149.7	0.0	69.47	8,163.5	1,389.4	812.6	669.3	143.32	5.670	
16,200.0	7,662.0	16,026.7	7,377.0	151.4	0.0	69.42	8,263.5	1,388.6	810.8	665.9	144.92	5.595	
16,300.0	7,662.0	16,126.7	7,377.0	153.2	0.0	69.37	8,363.5	1,387.8	809.1	662.5	146.53	5.522	
16,400.0	7,662.0	16,226.7	7,377.0	154.9	0.0	69.32	8,463.5	1,386.9	807.3	659.2	148.13	5.450	
16,500.0	7,662.0	16,326.7	7,377.0	156.6	0.0	69.28	8,563.4	1,386.1	805.5	655.8	149.74	5.380	
16,600.0	7,662.0	16,426.6	7,377.0	158.4	0.0	69.23	8,663.4	1,385.3	803.7	652.4	151.34	5.311	
16,700.0	7,662.0	16,526.6	7,377.0	160.1	0.0	69.18	8,763.4	1,384.4	802.0	649.0	152.94	5.244	
16,800.0	7,662.0	16,626.6	7,377.0	161.8	0.0	69.13	8,863.4	1,383.6	800.2	645.7	154.55	5.178	
16,900.0	7,662.0	16,726.6	7,377.0	163.5	0.0	69.08	8,963.4	1,382.8	798.4	642.3	156.15	5.113	
17,000.0	7,662.0	16,826.6	7,377.0	165.3	0.0	69.03	9,063.3	1,382.0	796.7	638.9	157.75	5.050	
17,100.0	7,662.0	16,926.6	7,377.0	167.0	0.0	68.99	9,163.3	1,381.1	794.9	635.5	159.35	4.988	
17,200.0	7,662.0	17,026.5	7,377.0	168.7	0.0	68.94	9,263.3	1,380.3	793.1	632.2	160.95	4.928	
17,300.0	7,662.0	17,126.5	7,377.0	170.5	0.0	68.89	9,363.3	1,379.5	791.3	628.8	162.55	4.868	
17,400.0	7,662.0	17,226.5	7,377.0	172.2	0.0	68.84	9,463.2	1,378.7	789.6	625.4	164.15	4.810	
17,500.0	7,662.0	17,326.5	7,377.0	173.9	0.0	68.79	9,563.2	1,377.8	787.8	622.1	165.75	4.753	
17,600.0	7,662.0	17,426.5	7,377.0	175.7	0.0	68.74	9,663.2	1,377.0	786.0	618.7	167.35	4.697	
17,700.0	7,662.0	17,526.4	7,377.0	177.4	0.0	68.69	9,763.2	1,376.2	784.3	615.3	168.95	4.642	
17,800.0	7,662.0	17,626.4	7,377.0	179.1	0.0	68.64	9,863.2	1,375.3	782.5	612.0	170.55	4.588	
17,850.8	7,662.0	17,677.2	7,377.0	180.0	0.0	68.61	9,913.9	1,374.9	781.6	610.2	171.36	4.561 SF	



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.84	0.1	30.0	30.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.84	0.1	30.0	30.0	29.7	0.28	108.476		
200.0	200.0	200.0	200.0	1.0	0.0	89.84	0.1	30.0	30.0	29.2	0.80	37.655		
300.0	300.0	300.0	300.0	1.5	0.0	89.84	0.1	30.0	30.0	28.8	1.22	24.530		
400.0	400.0	400.0	400.0	1.9	0.0	89.84	0.1	30.0	30.0	28.4	1.62	18.557		
500.0	500.0	500.0	500.0	2.3	0.0	89.84	0.1	30.0	30.0	28.0	2.00	15.022		
600.0	600.0	600.0	600.0	2.7	0.0	89.84	0.1	30.0	30.0	27.6	2.37	12.654		
700.0	700.0	700.0	700.0	3.1	0.0	89.84	0.1	30.0	30.0	27.3	2.74	10.948		
800.0	800.0	800.0	800.0	3.5	0.0	89.84	0.1	30.0	30.0	26.9	3.11	9.655		
900.0	900.0	900.0	900.0	3.9	0.0	89.84	0.1	30.0	30.0	26.5	3.47	8.639		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	89.84	0.1	30.0	30.0	26.2	3.84	7.820 CC, ES		
1,100.0	1,100.0	1,099.0	1,099.0	4.6	0.0	91.04	-0.6	31.6	31.6	27.4	4.18	7.560		
1,200.0	1,200.0	1,197.8	1,197.6	5.0	0.0	94.01	-2.5	36.3	36.5	32.0	4.49	8.118		
1,300.0	1,300.0	1,296.2	1,295.7	5.3	0.0	-27.39	-5.8	44.1	43.2	38.3	4.90	8.806		
1,400.0	1,399.8	1,394.4	1,393.2	5.6	0.0	-26.27	-10.4	55.0	50.1	44.6	5.48	9.133		
1,500.0	1,499.5	1,492.4	1,490.0	6.3	0.0	-26.05	-16.2	68.9	57.2	51.2	6.04	9.476		
1,600.0	1,598.7	1,590.1	1,586.0	7.0	0.0	-26.44	-23.3	85.9	64.5	57.9	6.55	9.847		
1,700.0	1,697.7	1,689.6	1,683.2	7.3	0.0	-27.15	-31.3	105.1	71.9	65.0	6.83	10.524		
1,800.0	1,796.6	1,789.3	1,780.7	7.6	0.0	-27.74	-39.4	124.3	79.2	72.1	7.12	11.124		
1,900.0	1,895.6	1,889.0	1,878.2	7.9	0.0	-28.23	-47.4	143.6	86.6	79.2	7.43	11.661		
2,000.0	1,994.5	1,988.7	1,975.7	8.2	0.0	-28.64	-55.5	162.9	94.0	86.2	7.74	12.142		
2,100.0	2,093.4	2,088.5	2,073.2	8.6	0.0	-28.99	-63.5	182.1	101.4	93.3	8.06	12.575		
2,200.0	2,192.4	2,188.2	2,170.8	8.9	0.0	-29.30	-71.6	201.4	108.8	100.4	8.39	12.965		
2,300.0	2,291.3	2,287.9	2,268.3	9.3	0.0	-29.56	-79.6	220.7	116.2	107.4	8.72	13.317		
2,400.0	2,390.3	2,387.6	2,365.8	9.6	0.0	-29.80	-87.7	240.0	123.6	114.5	9.06	13.636		
2,500.0	2,489.2	2,487.4	2,463.3	10.0	0.0	-30.01	-95.7	259.2	131.0	121.5	9.40	13.925		
2,600.0	2,588.2	2,587.1	2,560.8	10.3	0.0	-30.19	-103.8	278.5	138.4	128.6	9.75	14.189		
2,700.0	2,687.1	2,686.8	2,658.3	10.7	0.0	-30.36	-111.9	297.8	145.8	135.7	10.10	14.429		
2,800.0	2,786.1	2,786.5	2,755.8	11.1	0.0	-30.51	-119.9	317.0	153.2	142.7	10.46	14.649		
2,900.0	2,885.0	2,886.3	2,853.3	11.5	0.0	-30.65	-128.0	336.3	160.6	149.7	10.81	14.850		
3,000.0	2,984.0	2,986.0	2,950.9	11.9	0.0	-30.77	-136.0	355.6	168.0	156.8	11.17	15.035		
3,100.0	3,082.9	3,085.7	3,048.4	12.3	0.0	-30.88	-144.1	374.9	175.4	163.8	11.53	15.205		
3,200.0	3,181.9	3,185.4	3,145.9	12.7	0.0	-30.99	-152.1	394.1	182.8	170.9	11.90	15.363		
3,300.0	3,280.8	3,285.2	3,243.4	13.1	0.0	-31.09	-160.2	413.4	190.2	177.9	12.26	15.508		
3,400.0	3,379.8	3,384.9	3,340.9	13.5	0.0	-31.18	-168.3	432.7	197.6	184.9	12.63	15.643		
3,500.0	3,478.7	3,484.6	3,438.4	13.9	0.0	-31.26	-176.3	452.0	205.0	192.0	13.00	15.769		
3,600.0	3,577.7	3,584.3	3,535.9	14.3	0.0	-31.34	-184.4	471.2	212.4	199.0	13.37	15.885		
3,700.0	3,676.6	3,684.1	3,633.5	14.7	0.0	-31.41	-192.4	490.5	219.8	206.1	13.74	15.994		
3,800.0	3,775.6	3,783.8	3,731.0	15.1	0.0	-31.48	-200.5	509.8	227.2	213.1	14.12	16.096		
3,900.0	3,874.5	3,883.5	3,828.5	15.6	0.0	-31.54	-208.5	529.0	234.6	220.1	14.49	16.191		
4,000.0	3,973.5	3,983.2	3,926.0	16.0	0.0	-31.60	-216.6	548.3	242.0	227.1	14.87	16.280		
4,100.0	4,072.4	4,083.0	4,023.5	16.4	0.0	-31.65	-224.7	567.6	249.4	234.2	15.24	16.364		
4,200.0	4,171.4	4,182.7	4,121.0	16.8	0.0	-31.71	-232.7	586.9	256.8	241.2	15.62	16.443		
4,300.0	4,270.3	4,282.4	4,218.5	17.2	0.0	-31.75	-240.8	606.1	264.2	248.2	16.00	16.517		
4,400.0	4,369.3	4,382.1	4,316.0	17.7	0.0	-31.80	-248.8	625.4	271.6	255.3	16.38	16.587		
4,500.0	4,468.2	4,481.9	4,413.6	18.1	0.0	-31.85	-256.9	644.7	279.1	262.3	16.76	16.653		
4,600.0	4,567.2	4,581.6	4,511.1	18.5	0.0	-31.89	-264.9	663.9	286.5	269.3	17.14	16.716		
4,700.0	4,666.1	4,681.3	4,608.6	18.9	0.0	-31.93	-273.0	683.2	293.9	276.4	17.52	16.775		
4,800.0	4,765.1	4,781.0	4,706.1	19.4	0.0	-31.97	-281.1	702.5	301.3	283.4	17.90	16.831		
4,900.0	4,864.0	4,880.8	4,803.6	19.8	0.0	-32.00	-289.1	721.8	308.7	290.4	18.28	16.884		
5,000.0	4,962.9	4,980.5	4,901.1	20.2	0.0	-32.04	-297.2	741.0	316.1	297.4	18.67	16.935		
5,100.0	5,061.9	5,080.2	4,998.6	20.6	0.0	-32.07	-305.2	760.3	323.5	304.5	19.05	16.983		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,179.9	5,096.1	21.1	0.0	-32.10	-313.3	779.6	330.9	311.5	19.43	17.028		
5,300.0	5,259.8	5,279.7	5,193.7	21.5	0.0	-32.13	-321.3	798.8	338.3	318.5	19.82	17.072		
5,400.0	5,358.7	5,379.4	5,291.2	21.9	0.0	-32.16	-329.4	818.1	345.7	325.5	20.20	17.114		
5,500.0	5,457.7	5,479.1	5,388.7	22.3	0.0	-32.19	-337.5	837.4	353.1	332.6	20.59	17.153		
5,600.0	5,556.6	5,578.8	5,486.2	22.8	0.0	-32.21	-345.5	856.7	360.6	339.6	20.97	17.191		
5,700.0	5,655.6	5,678.6	5,583.7	23.2	0.0	-32.24	-353.6	875.9	368.0	346.6	21.36	17.228		
5,800.0	5,754.5	5,778.3	5,681.2	23.6	0.0	-32.26	-361.6	895.2	375.4	353.6	21.75	17.263		
5,900.0	5,853.5	5,878.0	5,778.7	24.1	0.0	-32.29	-369.7	914.5	382.8	360.7	22.13	17.296		
6,000.0	5,952.4	5,977.7	5,876.2	24.5	0.0	-32.31	-377.7	933.7	390.2	367.7	22.52	17.328		
6,100.0	6,051.4	6,077.5	5,973.8	24.9	0.0	-32.33	-385.8	953.0	397.6	374.7	22.91	17.358		
6,200.0	6,150.3	6,177.2	6,071.3	25.4	0.0	-32.35	-393.9	972.3	405.0	381.7	23.29	17.388		
6,300.0	6,249.3	6,276.9	6,168.8	25.8	0.0	-32.37	-401.9	991.6	412.4	388.7	23.68	17.416		
6,400.0	6,348.2	6,376.6	6,266.3	26.2	0.0	-32.39	-410.0	1,010.8	419.8	395.8	24.07	17.443		
6,500.0	6,447.2	6,476.4	6,363.8	26.6	0.0	-32.41	-418.0	1,030.1	427.2	402.8	24.46	17.469		
6,600.0	6,546.1	6,576.1	6,461.3	27.1	0.0	-32.43	-426.1	1,049.4	434.7	409.8	24.85	17.495		
6,700.0	6,645.1	6,675.8	6,558.8	27.5	0.0	-32.45	-434.1	1,068.6	442.1	416.8	25.23	17.519		
6,800.0	6,744.0	6,775.5	6,656.4	27.9	0.0	-32.46	-442.2	1,087.9	449.5	423.9	25.62	17.542		
6,900.0	6,843.0	6,875.3	6,753.9	28.4	0.0	-32.48	-450.2	1,107.2	456.9	430.9	26.01	17.565		
7,000.0	6,941.9	6,975.1	6,851.5	28.8	0.0	-32.50	-458.3	1,126.5	464.3	437.9	26.40	17.586		
7,100.0	7,040.9	7,076.7	6,951.0	29.2	0.0	-33.71	-456.7	1,145.9	471.5	444.6	26.85	17.560		
7,200.0	7,140.1	7,174.3	7,045.1	29.7	0.0	35.02	-438.3	1,163.9	479.2	451.8	27.33	17.536		
7,300.0	7,237.8	7,269.1	7,132.2	30.0	0.0	62.21	-405.1	1,180.2	487.9	460.0	27.90	17.484		
7,400.0	7,331.2	7,361.3	7,210.9	30.5	0.0	68.62	-359.3	1,194.6	497.2	468.9	28.24	17.605		
7,500.0	7,417.3	7,450.0	7,278.8	30.9	0.0	70.24	-303.7	1,206.6	506.6	478.2	28.39	17.846		
7,600.0	7,493.6	7,539.8	7,338.2	31.1	0.0	70.27	-237.2	1,216.8	515.8	487.4	28.47	18.119		
7,700.0	7,557.7	7,626.9	7,385.4	31.2	0.0	69.76	-164.5	1,224.4	524.3	495.8	28.50	18.398		
7,800.0	7,607.6	7,712.8	7,420.9	31.3	0.0	69.11	-86.5	1,229.6	531.8	503.2	28.55	18.625		
7,900.0	7,642.0	7,800.0	7,444.9	31.2	0.0	68.49	-2.8	1,232.4	537.8	509.2	28.68	18.752		
8,000.0	7,659.6	7,882.8	7,455.9	31.1	0.0	68.03	79.2	1,232.7	542.3	513.4	28.90	18.768		
8,100.0	7,662.0	7,976.2	7,457.0	31.0	0.0	67.90	172.5	1,230.8	545.1	515.9	29.24	18.645		
8,200.0	7,662.0	8,076.2	7,457.0	31.0	0.0	68.00	272.4	1,228.5	547.5	517.9	29.64	18.471		
8,300.0	7,662.0	8,176.1	7,457.0	31.0	0.0	68.11	372.4	1,226.3	549.9	519.8	30.14	18.245		
8,400.0	7,662.0	8,276.1	7,457.0	31.3	0.0	68.21	472.3	1,224.0	552.3	521.6	30.72	17.977		
8,500.0	7,662.0	8,376.1	7,457.0	31.9	0.0	68.31	572.3	1,221.8	554.7	523.3	31.39	17.674		
8,600.0	7,662.0	8,476.0	7,457.0	32.7	0.0	68.40	672.2	1,219.5	557.1	525.0	32.12	17.343		
8,700.0	7,662.0	8,576.0	7,457.0	33.5	0.0	68.50	772.1	1,217.3	559.6	526.6	32.93	16.991		
8,800.0	7,662.0	8,676.0	7,457.0	34.4	0.0	68.60	872.1	1,215.0	562.0	528.2	33.81	16.624		
8,900.0	7,662.0	8,775.9	7,457.0	35.4	0.0	68.70	972.0	1,212.7	564.4	529.7	34.74	16.246		
9,000.0	7,662.0	8,875.9	7,457.0	36.4	0.0	68.79	1,072.0	1,210.5	566.8	531.1	35.73	15.864		
9,100.0	7,662.0	8,975.9	7,457.0	37.5	0.0	68.89	1,171.9	1,208.2	569.2	532.5	36.77	15.480		
9,200.0	7,662.0	9,075.8	7,457.0	38.6	0.0	68.98	1,271.8	1,206.0	571.7	533.8	37.86	15.098		
9,300.0	7,662.0	9,175.8	7,457.0	39.8	0.0	69.07	1,371.8	1,203.7	574.1	535.1	39.00	14.721		
9,400.0	7,662.0	9,275.7	7,457.0	41.0	0.0	69.16	1,471.7	1,201.5	576.5	536.3	40.17	14.351		
9,500.0	7,662.0	9,375.7	7,457.0	42.3	0.0	69.26	1,571.7	1,199.2	578.9	537.6	41.38	13.990		
9,600.0	7,662.0	9,475.7	7,457.0	43.6	0.0	69.35	1,671.6	1,197.0	581.4	538.7	42.63	13.638		
9,700.0	7,662.0	9,575.6	7,457.0	44.9	0.0	69.44	1,771.5	1,194.7	583.8	539.9	43.91	13.297		
9,800.0	7,662.0	9,675.6	7,457.0	46.3	0.0	69.53	1,871.5	1,192.5	586.2	541.0	45.21	12.967		
9,900.0	7,662.0	9,775.6	7,457.0	47.7	0.0	69.61	1,971.4	1,190.2	588.7	542.1	46.54	12.648		
10,000.0	7,662.0	9,875.5	7,457.0	49.1	0.0	69.70	2,071.4	1,187.9	591.1	543.2	47.90	12.340		
10,100.0	7,662.0	9,975.5	7,457.0	50.5	0.0	69.79	2,171.3	1,185.7	593.5	544.3	49.28	12.044		
10,200.0	7,662.0	10,075.5	7,457.0	52.0	0.0	69.87	2,271.2	1,183.4	596.0	545.3	50.68	11.760		
10,300.0	7,662.0	10,175.4	7,457.0	53.4	0.0	69.96	2,371.2	1,181.2	598.4	546.3	52.10	11.486		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.0	7,662.0	10,275.4	7,457.0	54.9	0.0	70.05	2,471.1	1,178.9	600.9	547.3	53.54	11.223	
10,500.0	7,662.0	10,375.4	7,457.0	56.4	0.0	70.13	2,571.1	1,176.7	603.3	548.3	54.99	10.971	
10,600.0	7,662.0	10,475.3	7,457.0	58.0	0.0	70.21	2,671.0	1,174.4	605.7	549.3	56.46	10.729	
10,700.0	7,662.0	10,575.3	7,457.0	59.5	0.0	70.30	2,771.0	1,172.2	608.2	550.2	57.94	10.496	
10,800.0	7,662.0	10,675.3	7,457.0	61.1	0.0	70.38	2,870.9	1,169.9	610.6	551.2	59.44	10.273	
10,900.0	7,662.0	10,775.2	7,457.0	62.6	0.0	70.46	2,970.8	1,167.7	613.1	552.1	60.95	10.059	
11,000.0	7,662.0	10,875.2	7,457.0	64.2	0.0	70.54	3,070.8	1,165.4	615.5	553.1	62.47	9.853	
11,100.0	7,662.0	10,975.2	7,457.0	65.8	0.0	70.62	3,170.7	1,163.1	618.0	554.0	64.00	9.656	
11,200.0	7,662.0	11,075.2	7,457.0	67.4	0.0	70.66	3,270.7	1,160.9	619.0	553.4	65.54	9.445	
11,300.0	7,662.0	11,175.1	7,457.0	69.0	0.0	70.58	3,370.6	1,158.6	616.8	549.8	67.05	9.200	
11,400.0	7,662.0	11,275.1	7,457.0	70.6	0.0	70.47	3,470.5	1,156.4	613.7	545.1	68.53	8.954	
11,500.0	7,662.0	11,375.0	7,457.0	72.2	0.0	70.37	3,570.5	1,154.1	610.5	540.5	70.03	8.719	
11,600.0	7,662.0	11,475.0	7,457.0	73.8	0.0	70.27	3,670.4	1,151.9	607.4	535.9	71.53	8.492	
11,700.0	7,662.0	11,574.9	7,457.0	75.4	0.0	70.16	3,770.3	1,149.6	604.3	531.2	73.03	8.274	
11,800.0	7,662.0	11,674.9	7,457.0	77.0	0.0	70.05	3,870.2	1,147.4	601.1	526.6	74.54	8.065	
11,900.0	7,662.0	11,774.8	7,457.0	78.7	0.0	69.94	3,970.1	1,145.1	598.0	522.0	76.05	7.864	
12,000.0	7,662.0	11,874.7	7,457.0	80.3	0.0	69.83	4,070.1	1,142.9	594.9	517.3	77.56	7.670	
12,100.0	7,662.0	11,974.7	7,457.0	81.9	0.0	69.72	4,170.0	1,140.6	591.8	512.7	79.08	7.483	
12,200.0	7,662.0	12,074.6	7,457.0	83.6	0.0	69.61	4,269.9	1,138.4	588.7	508.1	80.60	7.304	
12,300.0	7,662.0	12,174.6	7,457.0	85.2	0.0	69.50	4,369.8	1,136.1	585.5	503.4	82.12	7.130	
12,400.0	7,662.0	12,274.5	7,457.0	86.9	0.0	69.38	4,469.7	1,133.8	582.4	498.8	83.64	6.963	
12,500.0	7,662.0	12,374.5	7,457.0	88.5	0.0	69.27	4,569.7	1,131.6	579.3	494.2	85.17	6.802	
12,600.0	7,662.0	12,474.4	7,457.0	90.2	0.0	69.15	4,669.6	1,129.3	576.2	489.5	86.70	6.646	
12,700.0	7,662.0	12,574.4	7,457.0	91.8	0.0	69.03	4,769.5	1,127.1	573.1	484.9	88.22	6.496	
12,800.0	7,662.0	12,674.3	7,457.0	93.5	0.0	68.91	4,869.4	1,124.8	570.0	480.2	89.75	6.351	
12,900.0	7,662.0	12,774.2	7,457.0	95.2	0.0	68.79	4,969.3	1,122.6	566.9	475.6	91.28	6.211	
13,000.0	7,662.0	12,874.2	7,457.0	96.9	0.0	68.67	5,069.3	1,120.3	563.8	471.0	92.81	6.075	
13,100.0	7,662.0	12,974.1	7,457.0	98.5	0.0	68.54	5,169.2	1,118.1	560.7	466.4	94.34	5.944	
13,200.0	7,662.0	13,074.1	7,457.0	100.2	0.0	68.42	5,269.1	1,115.8	557.6	461.7	95.86	5.817	
13,300.0	7,662.0	13,174.0	7,457.0	101.9	0.0	68.29	5,369.0	1,113.6	554.5	457.1	97.39	5.694	
13,400.0	7,662.0	13,274.0	7,457.0	103.6	0.0	68.16	5,468.9	1,111.3	551.4	452.5	98.92	5.575	
13,500.0	7,662.0	13,373.9	7,457.0	105.3	0.0	68.04	5,568.8	1,109.0	548.3	447.9	100.45	5.459	
13,600.0	7,662.0	13,473.9	7,457.0	107.0	0.0	67.90	5,668.8	1,106.8	545.3	443.3	101.97	5.347	
13,700.0	7,662.0	13,573.8	7,457.0	108.7	0.0	67.77	5,768.7	1,104.5	542.2	438.7	103.49	5.239	
13,800.0	7,662.0	13,673.8	7,457.0	110.3	0.0	67.64	5,868.6	1,102.3	539.1	434.1	105.02	5.134	
13,900.0	7,662.0	13,773.7	7,457.0	112.0	0.0	67.50	5,968.5	1,100.0	536.0	429.5	106.54	5.031	
14,000.0	7,662.0	13,873.6	7,457.0	113.7	0.0	67.37	6,068.4	1,097.8	533.0	424.9	108.06	4.932	
14,100.0	7,662.0	13,973.6	7,457.0	115.4	0.0	67.23	6,168.4	1,095.5	529.9	420.3	109.57	4.836	
14,200.0	7,662.0	14,073.5	7,457.0	117.1	0.0	67.09	6,268.3	1,093.3	526.8	415.7	111.09	4.742	
14,300.0	7,662.0	14,173.5	7,457.0	118.8	0.0	66.95	6,368.2	1,091.0	523.8	411.2	112.60	4.652	
14,400.0	7,662.0	14,273.4	7,457.0	120.5	0.0	66.80	6,468.1	1,088.8	520.7	406.6	114.11	4.563	
14,500.0	7,662.0	14,373.4	7,457.0	122.3	0.0	66.66	6,568.0	1,086.5	517.7	402.0	115.62	4.477	
14,600.0	7,662.0	14,473.3	7,457.0	124.0	0.0	66.51	6,668.0	1,084.3	514.6	397.5	117.12	4.394	
14,700.0	7,662.0	14,573.3	7,457.0	125.7	0.0	66.36	6,767.9	1,082.0	511.6	392.9	118.63	4.312	
14,800.0	7,662.0	14,673.2	7,457.0	127.4	0.0	66.21	6,867.8	1,079.7	508.5	388.4	120.12	4.233	
14,900.0	7,662.0	14,773.1	7,457.0	129.1	0.0	66.06	6,967.7	1,077.5	505.5	383.8	121.62	4.156	
15,000.0	7,662.0	14,873.1	7,457.0	130.8	0.0	65.91	7,067.6	1,075.2	502.4	379.3	123.11	4.081	
15,100.0	7,662.0	14,973.0	7,457.0	132.5	0.0	65.75	7,167.6	1,073.0	499.4	374.8	124.60	4.008	
15,200.0	7,662.0	15,073.0	7,457.0	134.2	0.0	65.59	7,267.5	1,070.7	496.4	370.3	126.08	3.937	
15,300.0	7,662.0	15,172.9	7,457.0	136.0	0.0	65.43	7,367.4	1,068.5	493.3	365.8	127.56	3.867	
15,400.0	7,662.0	15,272.9	7,457.0	137.7	0.0	65.27	7,467.3	1,066.2	490.3	361.3	129.04	3.800	
15,500.0	7,662.0	15,372.8	7,457.0	139.4	0.0	65.11	7,567.2	1,064.0	487.3	356.8	130.51	3.734	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,600.0	7,662.0	15,472.8	7,457.0	141.1	0.0	64.94	7,667.2	1,061.7	484.3	352.3	131.98	3.669		
15,700.0	7,662.0	15,572.7	7,457.0	142.8	0.0	64.78	7,767.1	1,059.5	481.3	347.8	133.44	3.607		
15,800.0	7,662.0	15,672.6	7,457.0	144.5	0.0	64.61	7,867.0	1,057.2	478.3	343.4	134.90	3.545		
15,900.0	7,662.0	15,772.6	7,457.0	146.3	0.0	64.44	7,966.9	1,055.0	475.3	338.9	136.35	3.486		
16,000.0	7,662.0	15,872.5	7,457.0	148.0	0.0	64.26	8,066.8	1,052.7	472.3	334.5	137.79	3.427		
16,100.0	7,662.0	15,972.5	7,457.0	149.7	0.0	64.08	8,166.8	1,050.4	469.3	330.0	139.24	3.370		
16,200.0	7,662.0	16,072.4	7,457.0	151.4	0.0	63.91	8,266.7	1,048.2	466.3	325.6	140.67	3.315		
16,300.0	7,662.0	16,172.4	7,457.0	153.2	0.0	63.73	8,366.6	1,045.9	463.3	321.2	142.10	3.260		
16,400.0	7,662.0	16,272.3	7,457.0	154.9	0.0	63.54	8,466.5	1,043.7	460.3	316.8	143.52	3.207		
16,500.0	7,662.0	16,372.3	7,457.0	156.6	0.0	63.36	8,566.4	1,041.4	457.3	312.4	144.94	3.155		
16,600.0	7,662.0	16,472.2	7,457.0	158.4	0.0	63.17	8,666.3	1,039.2	454.4	308.0	146.35	3.105		
16,700.0	7,662.0	16,572.1	7,457.0	160.1	0.0	62.98	8,766.3	1,036.9	451.4	303.7	147.76	3.055		
16,800.0	7,662.0	16,672.1	7,457.0	161.8	0.0	62.79	8,866.2	1,034.7	448.5	299.3	149.15	3.007		
16,900.0	7,662.0	16,772.0	7,457.0	163.5	0.0	62.59	8,966.1	1,032.4	445.5	295.0	150.54	2.959		
17,000.0	7,662.0	16,872.0	7,457.0	165.3	0.0	62.39	9,066.0	1,030.2	442.5	290.6	151.93	2.913		
17,100.0	7,662.0	16,971.9	7,457.0	167.0	0.0	62.19	9,165.9	1,027.9	439.6	286.3	153.30	2.868		
17,200.0	7,662.0	17,071.9	7,457.0	168.7	0.0	61.99	9,265.9	1,025.6	436.7	282.0	154.67	2.823		
17,300.0	7,662.0	17,171.8	7,457.0	170.5	0.0	61.78	9,365.8	1,023.4	433.7	277.7	156.03	2.780		
17,400.0	7,662.0	17,271.8	7,457.0	172.2	0.0	61.57	9,465.7	1,021.1	430.8	273.4	157.38	2.737		
17,500.0	7,662.0	17,371.7	7,457.0	173.9	0.0	61.36	9,565.6	1,018.9	427.9	269.2	158.72	2.696		
17,600.0	7,662.0	17,471.7	7,457.0	175.7	0.0	61.14	9,665.5	1,016.6	425.0	264.9	160.05	2.655		
17,700.0	7,662.0	17,571.6	7,457.0	177.4	0.0	60.93	9,765.5	1,014.4	422.1	260.7	161.37	2.615		
17,800.0	7,662.0	17,671.5	7,457.0	179.1	0.0	60.71	9,865.4	1,012.1	419.2	256.5	162.69	2.576		
17,850.8	7,662.0	17,720.0	7,457.0	180.0	0.0	60.60	9,913.8	1,011.0	417.7	254.3	163.41	2.556 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.90	0.0	15.0	15.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.90	0.0	15.0	15.0	14.8	0.28	54.381		
200.0	200.0	200.0	200.0	1.0	0.0	89.90	0.0	15.0	15.0	14.2	0.80	18.875		
300.0	300.0	300.0	300.0	1.5	0.0	89.90	0.0	15.0	15.0	13.8	1.22	12.295		
400.0	400.0	400.0	400.0	1.9	0.0	89.90	0.0	15.0	15.0	13.4	1.62	9.300		
500.0	500.0	500.0	500.0	2.3	0.0	89.90	0.0	15.0	15.0	13.0	2.00	7.528		
600.0	600.0	600.0	600.0	2.7	0.0	89.90	0.0	15.0	15.0	12.7	2.37	6.341		
700.0	700.0	700.0	700.0	3.1	0.0	89.90	0.0	15.0	15.0	12.3	2.74	5.486		
800.0	800.0	800.0	800.0	3.5	0.0	89.90	0.0	15.0	15.0	11.9	3.11	4.838		
900.0	900.0	900.0	900.0	3.9	0.0	89.90	0.0	15.0	15.0	11.6	3.47	4.329		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	89.90	0.0	15.0	15.0	11.2	3.84	3.918		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	0.0	89.90	0.0	15.0	15.0	10.8	4.20	3.579 CC, ES, SF		
1,200.0	1,200.0	1,199.5	1,199.5	5.0	0.0	92.67	-0.8	16.6	16.6	12.1	4.52	3.672		
1,300.0	1,300.0	1,298.9	1,298.7	5.3	0.0	-27.58	-3.2	21.2	19.9	15.0	4.91	4.044		
1,400.0	1,399.8	1,398.1	1,397.6	5.6	0.0	-25.85	-7.1	28.8	23.3	17.8	5.50	4.241		
1,500.0	1,499.5	1,497.2	1,495.9	6.3	0.0	-25.36	-12.6	39.4	26.9	20.9	6.06	4.439		
1,600.0	1,598.7	1,596.2	1,593.7	7.0	0.0	-25.67	-19.7	53.1	30.6	24.0	6.59	4.648		
1,700.0	1,697.7	1,695.7	1,691.5	7.3	0.0	-26.01	-28.1	69.2	35.0	28.1	6.87	5.092		
1,800.0	1,796.6	1,795.6	1,789.7	7.6	0.0	-26.18	-36.7	85.7	39.5	32.4	7.17	5.514		
1,900.0	1,895.6	1,895.5	1,887.9	7.9	0.0	-26.32	-45.2	102.1	44.1	36.6	7.48	5.895		
2,000.0	1,994.5	1,995.4	1,986.0	8.2	0.0	-26.43	-53.8	118.6	48.6	40.8	7.79	6.239		
2,100.0	2,093.4	2,095.3	2,084.2	8.6	0.0	-26.52	-62.3	135.1	53.2	45.1	8.11	6.552		
2,200.0	2,192.4	2,195.2	2,182.3	8.9	0.0	-26.60	-70.9	151.5	57.7	49.3	8.44	6.836		
2,300.0	2,291.3	2,295.1	2,280.5	9.3	0.0	-26.66	-79.4	168.0	62.3	53.5	8.78	7.094		
2,400.0	2,390.3	2,395.0	2,378.7	9.6	0.0	-26.72	-88.0	184.4	66.8	57.7	9.11	7.331		
2,500.0	2,489.2	2,494.9	2,476.8	10.0	0.0	-26.77	-96.5	200.9	71.4	61.9	9.46	7.547		
2,600.0	2,588.2	2,594.8	2,575.0	10.3	0.0	-26.81	-105.0	217.3	75.9	66.1	9.80	7.745		
2,700.0	2,687.1	2,694.7	2,673.1	10.7	0.0	-26.85	-113.6	233.8	80.5	70.3	10.15	7.927		
2,800.0	2,786.1	2,794.6	2,771.3	11.1	0.0	-26.88	-122.1	250.3	85.0	74.5	10.50	8.095		
2,900.0	2,885.0	2,894.5	2,869.5	11.5	0.0	-26.91	-130.7	266.7	89.6	78.7	10.86	8.250		
3,000.0	2,984.0	2,994.4	2,967.6	11.9	0.0	-26.94	-139.2	283.2	94.1	82.9	11.21	8.393		
3,100.0	3,082.9	3,094.3	3,065.8	12.3	0.0	-26.97	-147.8	299.6	98.7	87.1	11.57	8.527		
3,200.0	3,181.9	3,194.1	3,163.9	12.7	0.0	-26.99	-156.3	316.1	103.2	91.3	11.93	8.650		
3,300.0	3,280.8	3,294.0	3,262.1	13.1	0.0	-27.01	-164.9	332.5	107.8	95.5	12.29	8.765		
3,400.0	3,379.8	3,393.9	3,360.3	13.5	0.0	-27.03	-173.4	349.0	112.3	99.6	12.66	8.873		
3,500.0	3,478.7	3,493.8	3,458.4	13.9	0.0	-27.05	-182.0	365.4	116.9	103.8	13.02	8.973		
3,600.0	3,577.7	3,593.7	3,556.6	14.3	0.0	-27.07	-190.5	381.9	121.4	108.0	13.39	9.067		
3,700.0	3,676.6	3,693.6	3,654.7	14.7	0.0	-27.08	-199.1	398.4	126.0	112.2	13.76	9.155		
3,800.0	3,775.6	3,793.5	3,752.9	15.1	0.0	-27.10	-207.6	414.8	130.5	116.4	14.13	9.238		
3,900.0	3,874.5	3,893.4	3,851.1	15.6	0.0	-27.11	-216.2	431.3	135.0	120.6	14.50	9.316		
4,000.0	3,973.5	3,993.3	3,949.2	16.0	0.0	-27.12	-224.7	447.7	139.6	124.7	14.87	9.390		
4,100.0	4,072.4	4,093.2	4,047.4	16.4	0.0	-27.13	-233.2	464.2	144.1	128.9	15.24	9.459		
4,200.0	4,171.4	4,193.1	4,145.5	16.8	0.0	-27.14	-241.8	480.6	148.7	133.1	15.61	9.525		
4,300.0	4,270.3	4,293.0	4,243.7	17.2	0.0	-27.15	-250.3	497.1	153.2	137.3	15.99	9.586		
4,400.0	4,369.3	4,392.9	4,341.9	17.7	0.0	-27.16	-258.9	513.6	157.8	141.4	16.36	9.645		
4,500.0	4,468.2	4,492.8	4,440.0	18.1	0.0	-27.17	-267.4	530.0	162.3	145.6	16.74	9.701		
4,600.0	4,567.2	4,592.7	4,538.2	18.5	0.0	-27.18	-276.0	546.5	166.9	149.8	17.11	9.754		
4,700.0	4,666.1	4,692.6	4,636.3	18.9	0.0	-27.19	-284.5	562.9	171.4	154.0	17.49	9.804		
4,800.0	4,765.1	4,792.5	4,734.5	19.4	0.0	-27.20	-293.1	579.4	176.0	158.1	17.86	9.852		
4,900.0	4,864.0	4,892.4	4,832.7	19.8	0.0	-27.21	-301.6	595.8	180.5	162.3	18.24	9.897		
5,000.0	4,962.9	4,992.3	4,930.8	20.2	0.0	-27.21	-310.2	612.3	185.1	166.5	18.62	9.941		
5,100.0	5,061.9	5,092.2	5,029.0	20.6	0.0	-27.22	-318.7	628.7	189.6	170.6	19.00	9.982		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NXH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,160.8	5,192.1	5,127.2	21.1	0.0	-27.23	-327.3	645.2	194.2	174.8	19.38	10.022	
5,300.0	5,259.8	5,292.0	5,225.3	21.5	0.0	-27.23	-335.8	661.7	198.7	179.0	19.76	10.060	
5,400.0	5,358.7	5,391.9	5,323.5	21.9	0.0	-27.24	-344.4	678.1	203.3	183.2	20.14	10.096	
5,500.0	5,457.7	5,491.8	5,421.6	22.3	0.0	-27.24	-352.9	694.6	207.8	187.3	20.51	10.131	
5,600.0	5,556.6	5,591.7	5,519.8	22.8	0.0	-27.25	-361.5	711.0	212.4	191.5	20.90	10.164	
5,700.0	5,655.6	5,691.6	5,618.0	23.2	0.0	-27.25	-370.0	727.5	216.9	195.7	21.28	10.196	
5,800.0	5,754.5	5,791.5	5,716.1	23.6	0.0	-27.26	-378.5	743.9	221.5	199.8	21.66	10.227	
5,900.0	5,853.5	5,891.4	5,814.3	24.1	0.0	-27.26	-387.1	760.4	226.0	204.0	22.04	10.257	
6,000.0	5,952.4	5,991.2	5,912.4	24.5	0.0	-27.27	-395.6	776.9	230.6	208.2	22.42	10.285	
6,100.0	6,051.4	6,091.1	6,010.6	24.9	0.0	-27.27	-404.2	793.3	235.1	212.3	22.80	10.312	
6,200.0	6,150.3	6,191.0	6,108.8	25.4	0.0	-27.28	-412.7	809.8	239.7	216.5	23.18	10.339	
6,300.0	6,249.3	6,290.9	6,206.9	25.8	0.0	-27.28	-421.3	826.2	244.2	220.7	23.57	10.364	
6,400.0	6,348.2	6,390.8	6,305.1	26.2	0.0	-27.28	-429.8	842.7	248.8	224.8	23.95	10.388	
6,500.0	6,447.2	6,490.7	6,403.2	26.6	0.0	-27.29	-438.4	859.1	253.3	229.0	24.33	10.412	
6,600.0	6,546.1	6,590.6	6,501.4	27.1	0.0	-27.29	-446.9	875.6	257.9	233.2	24.71	10.435	
6,700.0	6,645.1	6,690.5	6,599.6	27.5	0.0	-27.30	-455.5	892.0	262.4	237.3	25.10	10.457	
6,800.0	6,744.0	6,794.6	6,702.0	27.9	0.0	-28.83	-457.2	909.2	266.3	240.7	25.55	10.421	
6,900.0	6,843.0	6,893.8	6,798.6	28.4	0.0	-33.90	-441.5	925.2	269.7	243.6	26.12	10.325	
7,000.0	6,941.9	6,982.7	6,881.7	28.8	0.0	-41.18	-413.3	938.8	277.0	250.3	26.71	10.371	
7,100.0	7,040.9	7,059.3	6,949.1	29.2	0.0	-49.06	-378.8	949.8	293.4	266.3	27.04	10.849	
7,200.0	7,140.1	7,127.8	7,005.1	29.7	0.0	13.27	-340.4	958.8	319.6	292.8	26.81	11.921	
7,300.0	7,237.8	7,200.0	7,058.8	30.0	0.0	34.87	-293.0	967.4	350.6	324.2	26.43	13.264	
7,400.0	7,331.2	7,257.8	7,097.3	30.5	0.0	37.85	-250.4	973.4	382.7	357.3	25.43	15.051	
7,500.0	7,417.3	7,320.4	7,134.0	30.9	0.0	36.78	-200.0	979.2	413.7	389.2	24.46	16.911	
7,600.0	7,493.6	7,382.1	7,164.6	31.1	0.0	35.08	-146.7	983.8	441.8	418.2	23.53	18.776	
7,700.0	7,557.7	7,450.0	7,191.6	31.2	0.0	33.41	-84.6	987.8	465.9	443.0	22.91	20.339	
7,800.0	7,607.6	7,500.0	7,206.8	31.3	0.0	32.36	-37.0	989.9	485.0	462.8	22.19	21.857	
7,900.0	7,642.0	7,563.2	7,219.9	31.2	0.0	31.57	24.7	991.6	498.7	476.7	22.07	22.594	
8,000.0	7,659.6	7,622.9	7,226.2	31.1	0.0	31.23	84.2	992.2	506.9	484.6	22.30	22.729	
8,100.0	7,662.0	7,702.1	7,227.0	31.0	0.0	31.41	163.3	991.7	509.8	487.0	22.83	22.327	
8,200.0	7,662.0	7,802.0	7,227.0	31.0	0.0	31.79	263.2	990.8	511.9	488.6	23.29	21.983	
8,300.0	7,662.0	7,901.9	7,227.0	31.0	0.0	32.18	363.1	990.0	514.0	490.2	23.80	21.601	
8,400.0	7,662.0	8,001.9	7,227.0	31.3	0.0	32.55	463.0	989.2	516.2	491.8	24.36	21.191	
8,500.0	7,662.0	8,101.8	7,227.0	31.9	0.0	32.93	563.0	988.4	518.4	493.4	24.97	20.760	
8,600.0	7,662.0	8,201.7	7,227.0	32.7	0.0	33.30	662.9	987.5	520.6	495.0	25.63	20.314	
8,700.0	7,662.0	8,301.6	7,227.0	33.5	0.0	33.67	762.8	986.7	522.8	496.5	26.33	19.857	
8,800.0	7,662.0	8,401.5	7,227.0	34.4	0.0	34.03	862.7	985.9	525.0	498.0	27.07	19.393	
8,900.0	7,662.0	8,501.5	7,227.0	35.4	0.0	34.40	962.6	985.1	527.3	499.4	27.86	18.927	
9,000.0	7,662.0	8,601.4	7,227.0	36.4	0.0	34.75	1,062.5	984.2	529.6	500.9	28.69	18.462	
9,100.0	7,662.0	8,701.3	7,227.0	37.5	0.0	35.11	1,162.5	983.4	531.9	502.4	29.55	18.001	
9,200.0	7,662.0	8,801.2	7,227.0	38.6	0.0	35.46	1,262.4	982.6	534.2	503.8	30.45	17.547	
9,300.0	7,662.0	8,901.1	7,227.0	39.8	0.0	35.81	1,362.3	981.8	536.6	505.2	31.38	17.100	
9,400.0	7,662.0	9,001.0	7,227.0	41.0	0.0	36.16	1,462.2	980.9	538.9	506.6	32.34	16.664	
9,500.0	7,662.0	9,101.0	7,227.0	42.3	0.0	36.50	1,562.1	980.1	541.3	508.0	33.34	16.239	
9,600.0	7,662.0	9,200.9	7,227.0	43.6	0.0	36.84	1,662.0	979.3	543.7	509.4	34.36	15.825	
9,700.0	7,662.0	9,300.8	7,227.0	44.9	0.0	37.18	1,761.9	978.5	546.2	510.7	35.41	15.424	
9,800.0	7,662.0	9,400.7	7,227.0	46.3	0.0	37.52	1,861.9	977.6	548.6	512.1	36.49	15.036	
9,900.0	7,662.0	9,500.6	7,227.0	47.7	0.0	37.85	1,961.8	976.8	551.1	513.5	37.59	14.661	
10,000.0	7,662.0	9,600.6	7,227.0	49.1	0.0	38.18	2,061.7	976.0	553.5	514.8	38.71	14.299	
10,100.0	7,662.0	9,700.5	7,227.0	50.5	0.0	38.50	2,161.6	975.1	556.0	516.2	39.86	13.950	
10,200.0	7,662.0	9,800.4	7,227.0	52.0	0.0	38.83	2,261.5	974.3	558.6	517.5	41.03	13.613	
10,300.0	7,662.0	9,900.3	7,227.0	53.4	0.0	39.15	2,361.4	973.5	561.1	518.9	42.22	13.290	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,000.2	7,227.0	54.9	0.0	39.46	2,461.4	972.7	563.6	520.2	43.43	12.978		
10,500.0	7,662.0	10,100.2	7,227.0	56.4	0.0	39.78	2,561.3	971.8	566.2	521.5	44.66	12.679		
10,600.0	7,662.0	10,200.1	7,227.0	58.0	0.0	40.09	2,661.2	971.0	568.8	522.9	45.90	12.391		
10,700.0	7,662.0	10,300.0	7,227.0	59.5	0.0	40.40	2,761.1	970.2	571.4	524.2	47.17	12.114		
10,800.0	7,662.0	10,399.9	7,227.0	61.1	0.0	40.70	2,861.0	969.4	574.0	525.6	48.45	11.848		
10,900.0	7,662.0	10,499.8	7,227.0	62.6	0.0	41.01	2,960.9	968.5	576.6	526.9	49.74	11.592		
11,000.0	7,662.0	10,599.7	7,227.0	64.2	0.0	41.31	3,060.8	967.7	579.3	528.2	51.05	11.347		
11,100.0	7,662.0	10,699.7	7,227.0	65.8	0.0	41.60	3,160.8	966.9	582.0	529.6	52.38	11.110		
11,200.0	7,662.0	10,799.6	7,227.0	67.4	0.0	41.81	3,260.7	966.1	583.6	530.0	53.66	10.876		
11,300.0	7,662.0	10,899.6	7,227.0	69.0	0.0	41.74	3,360.7	965.2	583.0	528.2	54.81	10.638		
11,400.0	7,662.0	10,999.6	7,227.0	70.6	0.0	41.60	3,460.7	964.4	581.8	525.9	55.89	10.409		
11,500.0	7,662.0	11,099.6	7,227.0	72.2	0.0	41.46	3,560.7	963.6	580.5	523.5	56.98	10.187		
11,600.0	7,662.0	11,199.6	7,227.0	73.8	0.0	41.32	3,660.7	962.8	579.3	521.2	58.08	9.974		
11,700.0	7,662.0	11,299.6	7,227.0	75.4	0.0	41.18	3,760.6	961.9	578.0	518.8	59.17	9.768		
11,800.0	7,662.0	11,399.5	7,227.0	77.0	0.0	41.04	3,860.6	961.1	576.8	516.5	60.26	9.570		
11,900.0	7,662.0	11,499.5	7,227.0	78.7	0.0	40.90	3,960.6	960.3	575.5	514.2	61.36	9.380		
12,000.0	7,662.0	11,599.5	7,227.0	80.3	0.0	40.75	4,060.6	959.4	574.3	511.8	62.45	9.196		
12,100.0	7,662.0	11,699.5	7,227.0	81.9	0.0	40.61	4,160.5	958.6	573.0	509.5	63.54	9.018		
12,200.0	7,662.0	11,799.5	7,227.0	83.6	0.0	40.46	4,260.5	957.8	571.8	507.2	64.63	8.847		
12,300.0	7,662.0	11,899.4	7,227.0	85.2	0.0	40.32	4,360.5	957.0	570.6	504.9	65.72	8.682		
12,400.0	7,662.0	11,999.4	7,227.0	86.9	0.0	40.17	4,460.5	956.1	569.3	502.5	66.81	8.522		
12,500.0	7,662.0	12,099.4	7,227.0	88.5	0.0	40.03	4,560.5	955.3	568.1	500.2	67.89	8.368		
12,600.0	7,662.0	12,199.4	7,227.0	90.2	0.0	39.88	4,660.4	954.5	566.9	497.9	68.98	8.219		
12,700.0	7,662.0	12,299.4	7,227.0	91.8	0.0	39.73	4,760.4	953.7	565.7	495.6	70.06	8.075		
12,800.0	7,662.0	12,399.4	7,227.0	93.5	0.0	39.59	4,860.4	952.8	564.5	493.3	71.13	7.935		
12,900.0	7,662.0	12,499.3	7,227.0	95.2	0.0	39.44	4,960.4	952.0	563.3	491.1	72.21	7.801		
13,000.0	7,662.0	12,599.3	7,227.0	96.9	0.0	39.29	5,060.4	951.2	562.1	488.8	73.28	7.670		
13,100.0	7,662.0	12,699.3	7,227.0	98.5	0.0	39.14	5,160.3	950.4	560.9	486.5	74.35	7.544		
13,200.0	7,662.0	12,799.3	7,227.0	100.2	0.0	38.99	5,260.3	949.5	559.7	484.3	75.42	7.421		
13,300.0	7,662.0	12,899.3	7,227.0	101.9	0.0	38.84	5,360.3	948.7	558.5	482.0	76.48	7.302		
13,400.0	7,662.0	12,999.2	7,227.0	103.6	0.0	38.68	5,460.3	947.9	557.3	479.8	77.54	7.187		
13,500.0	7,662.0	13,099.2	7,227.0	105.3	0.0	38.53	5,560.2	947.0	556.1	477.5	78.59	7.076		
13,600.0	7,662.0	13,199.2	7,227.0	107.0	0.0	38.38	5,660.2	946.2	554.9	475.3	79.64	6.968		
13,700.0	7,662.0	13,299.2	7,227.0	108.7	0.0	38.22	5,760.2	945.4	553.8	473.1	80.69	6.863		
13,800.0	7,662.0	13,399.2	7,227.0	110.3	0.0	38.07	5,860.2	944.6	552.6	470.9	81.73	6.761		
13,900.0	7,662.0	13,499.2	7,227.0	112.0	0.0	37.91	5,960.2	943.7	551.4	468.6	82.77	6.662		
14,000.0	7,662.0	13,599.1	7,227.0	113.7	0.0	37.76	6,060.1	942.9	550.3	466.4	83.81	6.566		
14,100.0	7,662.0	13,699.1	7,227.0	115.4	0.0	37.60	6,160.1	942.1	549.1	464.3	84.84	6.472		
14,200.0	7,662.0	13,799.1	7,227.0	117.1	0.0	37.45	6,260.1	941.3	547.9	462.1	85.86	6.382		
14,300.0	7,662.0	13,899.1	7,227.0	118.8	0.0	37.29	6,360.1	940.4	546.8	459.9	86.88	6.293		
14,400.0	7,662.0	13,999.1	7,227.0	120.5	0.0	37.13	6,460.1	939.6	545.6	457.7	87.90	6.208		
14,500.0	7,662.0	14,099.0	7,227.0	122.3	0.0	36.97	6,560.0	938.8	544.5	455.6	88.91	6.124		
14,600.0	7,662.0	14,199.0	7,227.0	124.0	0.0	36.81	6,660.0	938.0	543.4	453.4	89.92	6.043		
14,700.0	7,662.0	14,299.0	7,227.0	125.7	0.0	36.65	6,760.0	937.1	542.2	451.3	90.92	5.964		
14,800.0	7,662.0	14,399.0	7,227.0	127.4	0.0	36.49	6,860.0	936.3	541.1	449.2	91.91	5.887		
14,900.0	7,662.0	14,499.0	7,227.0	129.1	0.0	36.33	6,959.9	935.5	540.0	447.1	92.90	5.812		
15,000.0	7,662.0	14,599.0	7,227.0	130.8	0.0	36.16	7,059.9	934.6	538.8	445.0	93.89	5.739		
15,100.0	7,662.0	14,698.9	7,227.0	132.5	0.0	36.00	7,159.9	933.8	537.7	442.9	94.87	5.668		
15,200.0	7,662.0	14,798.9	7,227.0	134.2	0.0	35.84	7,259.9	933.0	536.6	440.8	95.85	5.599		
15,300.0	7,662.0	14,898.9	7,227.0	136.0	0.0	35.67	7,359.9	932.2	535.5	438.7	96.81	5.531		
15,400.0	7,662.0	14,998.9	7,227.0	137.7	0.0	35.51	7,459.8	931.3	534.4	436.6	97.78	5.466		
15,500.0	7,662.0	15,098.9	7,227.0	139.4	0.0	35.34	7,559.8	930.5	533.3	434.6	98.74	5.401		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-3NXH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.0	7,662.0	15,198.9	7,227.0	141.1	0.0	35.18	7,659.8	929.7	532.2	432.5	99.69	5.339	
15,700.0	7,662.0	15,298.8	7,227.0	142.8	0.0	35.01	7,759.8	928.9	531.1	430.5	100.63	5.278	
15,800.0	7,662.0	15,398.8	7,227.0	144.5	0.0	34.84	7,859.8	928.0	530.0	428.5	101.57	5.218	
15,900.0	7,662.0	15,498.8	7,227.0	146.3	0.0	34.67	7,959.7	927.2	529.0	426.4	102.51	5.160	
16,000.0	7,662.0	15,598.8	7,227.0	148.0	0.0	34.50	8,059.7	926.4	527.9	424.4	103.44	5.103	
16,100.0	7,662.0	15,698.8	7,227.0	149.7	0.0	34.33	8,159.7	925.6	526.8	422.4	104.36	5.048	
16,200.0	7,662.0	15,798.7	7,227.0	151.4	0.0	34.16	8,259.7	924.7	525.7	420.5	105.28	4.994	
16,300.0	7,662.0	15,898.7	7,227.0	153.2	0.0	33.99	8,359.6	923.9	524.7	418.5	106.19	4.941	
16,400.0	7,662.0	15,998.7	7,227.0	154.9	0.0	33.82	8,459.6	923.1	523.6	416.5	107.09	4.889	
16,500.0	7,662.0	16,098.7	7,227.0	156.6	0.0	33.64	8,559.6	922.3	522.6	414.6	107.99	4.839	
16,600.0	7,662.0	16,198.7	7,227.0	158.4	0.0	33.47	8,659.6	921.4	521.5	412.6	108.88	4.790	
16,700.0	7,662.0	16,298.7	7,227.0	160.1	0.0	33.30	8,759.6	920.6	520.5	410.7	109.76	4.742	
16,800.0	7,662.0	16,398.6	7,227.0	161.8	0.0	33.12	8,859.5	919.8	519.4	408.8	110.64	4.695	
16,900.0	7,662.0	16,498.6	7,227.0	163.5	0.0	32.95	8,959.5	918.9	518.4	406.9	111.52	4.649	
17,000.0	7,662.0	16,598.6	7,227.0	165.3	0.0	32.77	9,059.5	918.1	517.4	405.0	112.38	4.604	
17,100.0	7,662.0	16,698.6	7,227.0	167.0	0.0	32.59	9,159.5	917.3	516.3	403.1	113.24	4.560	
17,200.0	7,662.0	16,798.6	7,227.0	168.7	0.0	32.42	9,259.5	916.5	515.3	401.2	114.09	4.517	
17,300.0	7,662.0	16,898.5	7,227.0	170.5	0.0	32.24	9,359.4	915.6	514.3	399.4	114.94	4.475	
17,400.0	7,662.0	16,998.5	7,227.0	172.2	0.0	32.06	9,459.4	914.8	513.3	397.5	115.78	4.433	
17,500.0	7,662.0	17,098.5	7,227.0	173.9	0.0	31.88	9,559.4	914.0	512.3	395.7	116.61	4.393	
17,600.0	7,662.0	17,198.5	7,227.0	175.7	0.0	31.70	9,659.4	913.2	511.3	393.9	117.44	4.354	
17,700.0	7,662.0	17,298.5	7,227.0	177.4	0.0	31.52	9,759.3	912.3	510.3	392.0	118.26	4.315	
17,800.0	7,662.0	17,398.5	7,227.0	179.1	0.0	31.34	9,859.3	911.5	509.3	390.2	119.07	4.277	
17,850.8	7,662.0	17,449.2	7,227.0	180.0	0.0	31.24	9,910.1	911.1	508.8	389.3	119.48	4.259	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.80	0.2	60.0	60.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.80	0.2	60.0	60.0	59.7	0.28	216.861		
200.0	200.0	200.0	200.0	1.0	0.0	89.80	0.2	60.0	60.0	59.2	0.80	75.283		
300.0	300.0	300.0	300.0	1.5	0.0	89.80	0.2	60.0	60.0	58.8	1.22	49.046		
400.0	400.0	400.0	400.0	1.9	0.0	89.80	0.2	60.0	60.0	58.4	1.62	37.104		
500.0	500.0	500.0	500.0	2.3	0.0	89.80	0.2	60.0	60.0	58.0	2.00	30.037		
600.0	600.0	600.0	600.0	2.7	0.0	89.80	0.2	60.0	60.0	57.6	2.37	25.304		
700.0	700.0	700.0	700.0	3.1	0.0	89.80	0.2	60.0	60.0	57.3	2.74	21.892		
800.0	800.0	800.0	800.0	3.5	0.0	89.80	0.2	60.0	60.0	56.9	3.11	19.307 CC, ES		
900.0	900.0	898.0	898.0	3.9	0.0	90.23	-0.2	61.6	61.6	58.2	3.47	17.787		
1,000.0	1,000.0	995.7	995.6	4.2	0.0	91.39	-1.6	66.4	66.6	62.8	3.81	17.486		
1,100.0	1,100.0	1,093.1	1,092.5	4.6	0.0	92.98	-3.9	74.4	74.9	70.7	4.14	18.090		
1,200.0	1,200.0	1,189.7	1,188.5	5.0	0.0	94.68	-7.0	85.5	86.5	82.1	4.46	19.391		
1,300.0	1,300.0	1,285.7	1,283.4	5.3	0.0	-27.97	-11.0	99.5	100.0	95.1	4.88	20.497		
1,400.0	1,399.8	1,381.2	1,377.2	5.6	0.0	-27.49	-15.8	116.5	113.7	108.2	5.44	20.883		
1,500.0	1,499.5	1,476.3	1,470.1	6.3	0.0	-27.55	-21.4	136.5	127.5	121.6	5.97	21.367		
1,600.0	1,598.7	1,570.9	1,561.7	7.0	0.0	-27.98	-27.9	159.2	141.6	135.1	6.45	21.935		
1,700.0	1,697.7	1,668.5	1,655.5	7.3	0.0	-28.67	-35.2	184.9	156.0	149.3	6.72	23.214		
1,800.0	1,796.6	1,767.5	1,750.6	7.6	0.0	-29.26	-42.6	211.1	170.6	163.6	7.02	24.324		
1,900.0	1,895.6	1,866.4	1,845.7	7.9	0.0	-29.76	-50.0	237.2	185.3	177.9	7.32	25.312		
2,000.0	1,994.5	1,965.3	1,940.8	8.2	0.0	-30.19	-57.4	263.4	199.9	192.2	7.63	26.192		
2,100.0	2,093.4	2,064.2	2,036.0	8.6	0.0	-30.56	-64.8	289.6	214.5	206.6	7.95	26.979		
2,200.0	2,192.4	2,163.1	2,131.1	8.9	0.0	-30.89	-72.2	315.7	229.1	220.9	8.28	27.684		
2,300.0	2,291.3	2,262.0	2,226.2	9.3	0.0	-31.17	-79.6	341.9	243.8	235.2	8.61	28.316		
2,400.0	2,390.3	2,360.9	2,321.3	9.6	0.0	-31.42	-87.1	368.1	258.4	249.5	8.95	28.886		
2,500.0	2,489.2	2,459.9	2,416.4	10.0	0.0	-31.65	-94.5	394.2	273.1	263.8	9.29	29.400		
2,600.0	2,588.2	2,558.8	2,511.5	10.3	0.0	-31.85	-101.9	420.4	287.8	278.1	9.64	29.865		
2,700.0	2,687.1	2,657.7	2,606.6	10.7	0.0	-32.03	-109.3	446.6	302.4	292.4	9.99	30.287		
2,800.0	2,786.1	2,756.6	2,701.7	11.1	0.0	-32.20	-116.7	472.7	317.1	306.7	10.34	30.671		
2,900.0	2,885.0	2,855.5	2,796.8	11.5	0.0	-32.35	-124.1	498.9	331.8	321.1	10.69	31.021		
3,000.0	2,984.0	2,954.4	2,891.9	11.9	0.0	-32.48	-131.5	525.0	346.4	335.4	11.05	31.342		
3,100.0	3,082.9	3,053.3	2,987.0	12.3	0.0	-32.61	-138.9	551.2	361.1	349.7	11.41	31.636		
3,200.0	3,181.9	3,152.3	3,082.1	12.7	0.0	-32.73	-146.4	577.4	375.8	364.0	11.78	31.906		
3,300.0	3,280.8	3,251.2	3,177.2	13.1	0.0	-32.84	-153.8	603.5	390.4	378.3	12.14	32.154		
3,400.0	3,379.8	3,350.1	3,272.3	13.5	0.0	-32.94	-161.2	629.7	405.1	392.6	12.51	32.384		
3,500.0	3,478.7	3,449.0	3,367.4	13.9	0.0	-33.03	-168.6	655.9	419.8	406.9	12.88	32.596		
3,600.0	3,577.7	3,547.9	3,462.5	14.3	0.0	-33.12	-176.0	682.0	434.5	421.2	13.25	32.793		
3,700.0	3,676.6	3,646.8	3,557.6	14.7	0.0	-33.20	-183.4	708.2	449.2	435.5	13.62	32.976		
3,800.0	3,775.6	3,745.8	3,652.7	15.1	0.0	-33.27	-190.8	734.4	463.8	449.8	13.99	33.146		
3,900.0	3,874.5	3,844.7	3,747.8	15.6	0.0	-33.34	-198.2	760.5	478.5	464.1	14.37	33.305		
4,000.0	3,973.5	3,943.6	3,842.9	16.0	0.0	-33.41	-205.7	786.7	493.2	478.4	14.74	33.453		
4,100.0	4,072.4	4,042.5	3,938.0	16.4	0.0	-33.48	-213.1	812.9	507.9	492.8	15.12	33.592		
4,200.0	4,171.4	4,141.4	4,033.1	16.8	0.0	-33.54	-220.5	839.0	522.6	507.1	15.50	33.722		
4,300.0	4,270.3	4,240.3	4,128.2	17.2	0.0	-33.59	-227.9	865.2	537.2	521.4	15.87	33.843		
4,400.0	4,369.3	4,339.2	4,223.3	17.7	0.0	-33.65	-235.3	891.3	551.9	535.7	16.25	33.958		
4,500.0	4,468.2	4,438.2	4,318.4	18.1	0.0	-33.70	-242.7	917.5	566.6	550.0	16.63	34.066		
4,600.0	4,567.2	4,537.1	4,413.5	18.5	0.0	-33.74	-250.1	943.7	581.3	564.3	17.01	34.167		
4,700.0	4,666.1	4,636.0	4,508.6	18.9	0.0	-33.79	-257.5	969.8	596.0	578.6	17.39	34.263		
4,800.0	4,765.1	4,734.9	4,603.7	19.4	0.0	-33.83	-265.0	996.0	610.7	592.9	17.78	34.354		
4,900.0	4,864.0	4,833.8	4,698.8	19.8	0.0	-33.87	-272.4	1,022.2	625.3	607.2	18.16	34.440		
5,000.0	4,962.9	4,932.7	4,793.9	20.2	0.0	-33.91	-279.8	1,048.3	640.0	621.5	18.54	34.521		
5,100.0	5,061.9	5,031.6	4,889.1	20.6	0.0	-33.95	-287.2	1,074.5	654.7	635.8	18.92	34.598		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,130.6	4,984.2	21.1	0.0	-33.99	-294.6	1,100.7	669.4	650.1	19.31	34.671		
5,300.0	5,259.8	5,229.5	5,079.3	21.5	0.0	-34.02	-302.0	1,126.8	684.1	664.4	19.69	34.740		
5,400.0	5,358.7	5,328.4	5,174.4	21.9	0.0	-34.06	-309.4	1,153.0	698.8	678.7	20.08	34.806		
5,500.0	5,457.7	5,427.3	5,269.5	22.3	0.0	-34.09	-316.8	1,179.2	713.5	693.0	20.46	34.869		
5,600.0	5,556.6	5,526.2	5,364.6	22.8	0.0	-34.12	-324.2	1,205.3	728.1	707.3	20.85	34.929		
5,700.0	5,655.6	5,625.1	5,459.7	23.2	0.0	-34.15	-331.7	1,231.5	742.8	721.6	21.23	34.986		
5,800.0	5,754.5	5,724.0	5,554.8	23.6	0.0	-34.18	-339.1	1,257.6	757.5	735.9	21.62	35.041		
5,900.0	5,853.5	5,823.0	5,649.9	24.1	0.0	-34.20	-346.5	1,283.8	772.2	750.2	22.00	35.093		
6,000.0	5,952.4	5,921.9	5,745.0	24.5	0.0	-34.23	-353.9	1,310.0	786.9	764.5	22.39	35.142		
6,100.0	6,051.4	6,020.8	5,840.1	24.9	0.0	-34.25	-361.3	1,336.1	801.6	778.8	22.78	35.190		
6,200.0	6,150.3	6,119.7	5,935.2	25.4	0.0	-34.28	-368.7	1,362.3	816.3	793.1	23.17	35.236		
6,300.0	6,249.3	6,218.6	6,030.3	25.8	0.0	-34.30	-376.1	1,388.5	831.0	807.4	23.55	35.279		
6,400.0	6,348.2	6,317.5	6,125.4	26.2	0.0	-34.32	-383.5	1,414.6	845.6	821.7	23.94	35.321		
6,500.0	6,447.2	6,416.5	6,220.5	26.6	0.0	-34.35	-391.0	1,440.8	860.3	836.0	24.33	35.361		
6,600.0	6,546.1	6,515.4	6,315.6	27.1	0.0	-34.37	-398.4	1,467.0	875.0	850.3	24.72	35.400		
6,700.0	6,645.1	6,614.3	6,410.7	27.5	0.0	-34.39	-405.8	1,493.1	889.7	864.6	25.11	35.437		
6,800.0	6,744.0	6,713.2	6,505.8	27.9	0.0	-34.41	-413.2	1,519.3	904.4	878.9	25.50	35.473		
6,900.0	6,843.0	6,812.1	6,600.9	28.4	0.0	-34.43	-420.6	1,545.5	919.1	893.2	25.88	35.507		
7,000.0	6,941.9	6,911.0	6,696.0	28.8	0.0	-34.45	-428.0	1,571.6	933.8	907.5	26.27	35.540		
7,100.0	7,040.9	7,009.9	6,791.1	29.2	0.0	-34.46	-435.4	1,597.8	948.5	921.8	26.66	35.572		
7,200.0	7,140.1	7,108.4	6,885.8	29.7	0.0	36.22	-442.8	1,623.8	963.4	936.3	27.05	35.621		
7,300.0	7,237.8	7,203.9	6,977.6	30.0	0.0	66.11	-450.0	1,649.1	979.0	951.4	27.54	35.542		
7,400.0	7,331.2	7,298.2	7,068.4	30.5	0.0	75.66	-455.0	1,674.0	995.8	968.0	27.82	35.790		
7,500.0	7,417.3	7,401.7	7,167.5	30.9	0.0	80.30	-444.7	1,701.2	1,013.9	985.9	28.05	36.153		
7,600.0	7,493.6	7,515.3	7,272.4	31.1	0.0	83.12	-412.4	1,729.7	1,032.5	1,004.2	28.27	36.519		
7,700.0	7,557.7	7,641.6	7,379.4	31.2	0.0	85.09	-352.2	1,758.6	1,050.7	1,022.1	28.51	36.850		
7,800.0	7,607.6	7,782.8	7,480.6	31.3	0.0	86.52	-258.0	1,785.6	1,067.2	1,038.4	28.74	37.128		
7,900.0	7,642.0	7,939.5	7,563.3	31.2	0.0	87.46	-127.3	1,807.2	1,080.7	1,051.8	28.97	37.308		
8,000.0	7,659.6	8,108.8	7,610.9	31.1	0.0	87.77	34.1	1,818.9	1,089.9	1,060.7	29.23	37.294		
8,100.0	7,662.0	8,245.1	7,617.0	31.0	0.0	87.64	170.1	1,819.5	1,094.6	1,065.1	29.53	37.061		
8,200.0	7,662.0	8,345.1	7,617.0	31.0	0.0	87.65	270.1	1,818.6	1,098.6	1,068.7	29.92	36.720		
8,300.0	7,662.0	8,445.0	7,617.0	31.0	0.0	87.66	370.0	1,817.8	1,102.6	1,072.2	30.41	36.264		
8,400.0	7,662.0	8,544.9	7,617.0	31.3	0.0	87.67	469.9	1,817.0	1,106.7	1,075.7	30.99	35.714		
8,500.0	7,662.0	8,644.8	7,617.0	31.9	0.0	87.68	569.8	1,816.2	1,110.7	1,079.0	31.66	35.085		
8,600.0	7,662.0	8,744.7	7,617.0	32.7	0.0	87.68	669.7	1,815.3	1,114.7	1,082.3	32.41	34.392		
8,700.0	7,662.0	8,844.7	7,617.0	33.5	0.0	87.69	769.6	1,814.5	1,118.7	1,085.5	33.24	33.652		
8,800.0	7,662.0	8,944.6	7,617.0	34.4	0.0	87.70	869.6	1,813.7	1,122.7	1,088.6	34.15	32.878		
8,900.0	7,662.0	9,044.5	7,617.0	35.4	0.0	87.71	969.5	1,812.8	1,126.8	1,091.6	35.12	32.082		
9,000.0	7,662.0	9,144.4	7,617.0	36.4	0.0	87.72	1,069.4	1,812.0	1,130.8	1,094.6	36.15	31.277		
9,100.0	7,662.0	9,244.3	7,617.0	37.5	0.0	87.73	1,169.3	1,811.2	1,134.8	1,097.6	37.24	30.470		
9,200.0	7,662.0	9,344.3	7,617.0	38.6	0.0	87.73	1,269.2	1,810.4	1,138.8	1,100.4	38.38	29.669		
9,300.0	7,662.0	9,444.2	7,617.0	39.8	0.0	87.74	1,369.1	1,809.5	1,142.8	1,103.3	39.57	28.879		
9,400.0	7,662.0	9,544.1	7,617.0	41.0	0.0	87.75	1,469.0	1,808.7	1,146.9	1,106.1	40.80	28.106		
9,500.0	7,662.0	9,644.0	7,617.0	42.3	0.0	87.76	1,569.0	1,807.9	1,150.9	1,108.8	42.07	27.353		
9,600.0	7,662.0	9,743.9	7,617.0	43.6	0.0	87.77	1,668.9	1,807.1	1,154.9	1,111.5	43.38	26.623		
9,700.0	7,662.0	9,843.8	7,617.0	44.9	0.0	87.77	1,768.8	1,806.2	1,158.9	1,114.2	44.72	25.915		
9,800.0	7,662.0	9,943.8	7,617.0	46.3	0.0	87.78	1,868.7	1,805.4	1,163.0	1,116.9	46.09	25.233		
9,900.0	7,662.0	10,043.7	7,617.0	47.7	0.0	87.79	1,968.6	1,804.6	1,167.0	1,119.5	47.48	24.576		
10,000.0	7,662.0	10,143.6	7,617.0	49.1	0.0	87.80	2,068.5	1,803.8	1,171.0	1,122.1	48.90	23.944		
10,100.0	7,662.0	10,243.5	7,617.0	50.5	0.0	87.80	2,168.5	1,802.9	1,175.0	1,124.7	50.35	23.338		
10,200.0	7,662.0	10,343.4	7,617.0	52.0	0.0	87.81	2,268.4	1,802.1	1,179.0	1,127.2	51.81	22.756		
10,300.0	7,662.0	10,443.4	7,617.0	53.4	0.0	87.82	2,368.3	1,801.3	1,183.1	1,129.8	53.30	22.198		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,543.3	7,617.0	54.9	0.0	87.83	2,468.2	1,800.5	1,187.1	1,132.3	54.80	21.663		
10,500.0	7,662.0	10,643.2	7,617.0	56.4	0.0	87.83	2,568.1	1,799.6	1,191.1	1,134.8	56.31	21.151		
10,600.0	7,662.0	10,743.1	7,617.0	58.0	0.0	87.84	2,668.0	1,798.8	1,195.1	1,137.3	57.85	20.660		
10,700.0	7,662.0	10,843.0	7,617.0	59.5	0.0	87.85	2,767.9	1,798.0	1,199.1	1,139.8	59.39	20.190		
10,800.0	7,662.0	10,943.0	7,617.0	61.1	0.0	87.85	2,867.9	1,797.2	1,203.2	1,142.2	60.95	19.740		
10,900.0	7,662.0	11,042.9	7,617.0	62.6	0.0	87.86	2,967.8	1,796.3	1,207.2	1,144.7	62.52	19.308		
11,000.0	7,662.0	11,142.8	7,617.0	64.2	0.0	87.87	3,067.7	1,795.5	1,211.2	1,147.1	64.10	18.895		
11,100.0	7,662.0	11,242.7	7,617.0	65.8	0.0	87.88	3,167.6	1,794.7	1,215.2	1,149.5	65.70	18.498		
11,200.0	7,662.0	11,342.7	7,617.0	67.4	0.0	87.88	3,267.6	1,793.8	1,217.7	1,150.4	67.30	18.094		
11,300.0	7,662.0	11,442.7	7,617.0	69.0	0.0	87.88	3,367.6	1,793.0	1,216.8	1,147.9	68.90	17.660		
11,400.0	7,662.0	11,542.7	7,617.0	70.6	0.0	87.88	3,467.5	1,792.2	1,214.9	1,144.5	70.49	17.235		
11,500.0	7,662.0	11,642.6	7,617.0	72.2	0.0	87.87	3,567.5	1,791.4	1,213.1	1,141.0	72.09	16.826		
11,600.0	7,662.0	11,742.6	7,617.0	73.8	0.0	87.87	3,667.5	1,790.5	1,211.2	1,137.5	73.70	16.433		
11,700.0	7,662.0	11,842.6	7,617.0	75.4	0.0	87.87	3,767.5	1,789.7	1,209.3	1,133.9	75.32	16.056		
11,800.0	7,662.0	11,942.6	7,617.0	77.0	0.0	87.86	3,867.5	1,788.9	1,207.4	1,130.4	76.94	15.693		
11,900.0	7,662.0	12,042.6	7,617.0	78.7	0.0	87.86	3,967.4	1,788.1	1,205.5	1,126.9	78.56	15.344		
12,000.0	7,662.0	12,142.5	7,617.0	80.3	0.0	87.86	4,067.4	1,787.2	1,203.6	1,123.4	80.19	15.008		
12,100.0	7,662.0	12,242.5	7,617.0	81.9	0.0	87.85	4,167.4	1,786.4	1,201.7	1,119.8	81.83	14.685		
12,200.0	7,662.0	12,342.5	7,617.0	83.6	0.0	87.85	4,267.4	1,785.6	1,199.8	1,116.3	83.47	14.373		
12,300.0	7,662.0	12,442.5	7,617.0	85.2	0.0	87.85	4,367.3	1,784.7	1,197.9	1,112.8	85.12	14.073		
12,400.0	7,662.0	12,542.5	7,617.0	86.9	0.0	87.84	4,467.3	1,783.9	1,196.0	1,109.2	86.77	13.783		
12,500.0	7,662.0	12,642.5	7,617.0	88.5	0.0	87.84	4,567.3	1,783.1	1,194.1	1,105.7	88.42	13.504		
12,600.0	7,662.0	12,742.4	7,617.0	90.2	0.0	87.84	4,667.3	1,782.3	1,192.2	1,102.1	90.08	13.234		
12,700.0	7,662.0	12,842.4	7,617.0	91.8	0.0	87.83	4,767.3	1,781.4	1,190.3	1,098.6	91.75	12.974		
12,800.0	7,662.0	12,942.4	7,617.0	93.5	0.0	87.83	4,867.2	1,780.6	1,188.4	1,095.0	93.41	12.722		
12,900.0	7,662.0	13,042.4	7,617.0	95.2	0.0	87.83	4,967.2	1,779.8	1,186.5	1,091.4	95.08	12.479		
13,000.0	7,662.0	13,142.4	7,617.0	96.9	0.0	87.82	5,067.2	1,779.0	1,184.6	1,087.9	96.75	12.243		
13,100.0	7,662.0	13,242.3	7,617.0	98.5	0.0	87.82	5,167.2	1,778.1	1,182.7	1,084.3	98.43	12.016		
13,200.0	7,662.0	13,342.3	7,617.0	100.2	0.0	87.82	5,267.2	1,777.3	1,180.8	1,080.7	100.11	11.795		
13,300.0	7,662.0	13,442.3	7,617.0	101.9	0.0	87.81	5,367.1	1,776.5	1,178.9	1,077.1	101.79	11.582		
13,400.0	7,662.0	13,542.3	7,617.0	103.6	0.0	87.81	5,467.1	1,775.7	1,177.0	1,073.6	103.47	11.375		
13,500.0	7,662.0	13,642.3	7,617.0	105.3	0.0	87.81	5,567.1	1,774.8	1,175.1	1,070.0	105.16	11.175		
13,600.0	7,662.0	13,742.3	7,617.0	107.0	0.0	87.80	5,667.1	1,774.0	1,173.2	1,066.4	106.85	10.980		
13,700.0	7,662.0	13,842.2	7,617.0	108.7	0.0	87.80	5,767.0	1,773.2	1,171.3	1,062.8	108.54	10.792		
13,800.0	7,662.0	13,942.2	7,617.0	110.3	0.0	87.79	5,867.0	1,772.3	1,169.4	1,059.2	110.23	10.609		
13,900.0	7,662.0	14,042.2	7,617.0	112.0	0.0	87.79	5,967.0	1,771.5	1,167.6	1,055.6	111.93	10.431		
14,000.0	7,662.0	14,142.2	7,617.0	113.7	0.0	87.79	6,067.0	1,770.7	1,165.7	1,052.0	113.62	10.259		
14,100.0	7,662.0	14,242.2	7,617.0	115.4	0.0	87.78	6,167.0	1,769.9	1,163.8	1,048.4	115.32	10.092		
14,200.0	7,662.0	14,342.1	7,617.0	117.1	0.0	87.78	6,266.9	1,769.0	1,161.9	1,044.8	117.02	9.929		
14,300.0	7,662.0	14,442.1	7,617.0	118.8	0.0	87.78	6,366.9	1,768.2	1,160.0	1,041.2	118.72	9.770		
14,400.0	7,662.0	14,542.1	7,617.0	120.5	0.0	87.77	6,466.9	1,767.4	1,158.1	1,037.6	120.43	9.616		
14,500.0	7,662.0	14,642.1	7,617.0	122.3	0.0	87.77	6,566.9	1,766.6	1,156.2	1,034.0	122.13	9.467		
14,600.0	7,662.0	14,742.1	7,617.0	124.0	0.0	87.77	6,666.9	1,765.7	1,154.3	1,030.4	123.84	9.321		
14,700.0	7,662.0	14,842.1	7,617.0	125.7	0.0	87.76	6,766.8	1,764.9	1,152.4	1,026.8	125.55	9.179		
14,800.0	7,662.0	14,942.0	7,617.0	127.4	0.0	87.76	6,866.8	1,764.1	1,150.5	1,023.2	127.26	9.041		
14,900.0	7,662.0	15,042.0	7,617.0	129.1	0.0	87.75	6,966.8	1,763.3	1,148.6	1,019.6	128.97	8.906		
15,000.0	7,662.0	15,142.0	7,617.0	130.8	0.0	87.75	7,066.8	1,762.4	1,146.7	1,016.0	130.68	8.775		
15,100.0	7,662.0	15,242.0	7,617.0	132.5	0.0	87.75	7,166.7	1,761.6	1,144.8	1,012.4	132.39	8.647		
15,200.0	7,662.0	15,342.0	7,617.0	134.2	0.0	87.74	7,266.7	1,760.8	1,142.9	1,008.8	134.10	8.522		
15,300.0	7,662.0	15,442.0	7,617.0	136.0	0.0	87.74	7,366.7	1,759.9	1,141.0	1,005.2	135.82	8.401		
15,400.0	7,662.0	15,541.9	7,617.0	137.7	0.0	87.74	7,466.7	1,759.1	1,139.1	1,001.6	137.54	8.282		
15,500.0	7,662.0	15,641.9	7,617.0	139.4	0.0	87.73	7,566.7	1,758.3	1,137.2	998.0	139.25	8.167		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,600.0	7,662.0	15,741.9	7,617.0	141.1	0.0	87.73	7,666.6	1,757.5	1,135.3	994.4	140.97	8.054		
15,700.0	7,662.0	15,841.9	7,617.0	142.8	0.0	87.72	7,766.6	1,756.6	1,133.4	990.7	142.69	7.943		
15,800.0	7,662.0	15,941.9	7,617.0	144.5	0.0	87.72	7,866.6	1,755.8	1,131.5	987.1	144.41	7.835		
15,900.0	7,662.0	16,041.8	7,617.0	146.3	0.0	87.72	7,966.6	1,755.0	1,129.6	983.5	146.13	7.730		
16,000.0	7,662.0	16,141.8	7,617.0	148.0	0.0	87.71	8,066.6	1,754.2	1,127.7	979.9	147.86	7.627		
16,100.0	7,662.0	16,241.8	7,617.0	149.7	0.0	87.71	8,166.5	1,753.3	1,125.8	976.3	149.58	7.527		
16,200.0	7,662.0	16,341.8	7,617.0	151.4	0.0	87.71	8,266.5	1,752.5	1,124.0	972.6	151.30	7.429		
16,300.0	7,662.0	16,441.8	7,617.0	153.2	0.0	87.70	8,366.5	1,751.7	1,122.1	969.0	153.03	7.332		
16,400.0	7,662.0	16,541.8	7,617.0	154.9	0.0	87.70	8,466.5	1,750.8	1,120.2	965.4	154.75	7.238		
16,500.0	7,662.0	16,641.7	7,617.0	156.6	0.0	87.69	8,566.4	1,750.0	1,118.3	961.8	156.48	7.146		
16,600.0	7,662.0	16,741.7	7,617.0	158.4	0.0	87.69	8,666.4	1,749.2	1,116.4	958.2	158.20	7.057		
16,700.0	7,662.0	16,841.7	7,617.0	160.1	0.0	87.69	8,766.4	1,748.4	1,114.5	954.5	159.93	6.968		
16,800.0	7,662.0	16,941.7	7,617.0	161.8	0.0	87.68	8,866.4	1,747.5	1,112.6	950.9	161.66	6.882		
16,900.0	7,662.0	17,041.7	7,617.0	163.5	0.0	87.68	8,966.4	1,746.7	1,110.7	947.3	163.39	6.798		
17,000.0	7,662.0	17,141.6	7,617.0	165.3	0.0	87.67	9,066.3	1,745.9	1,108.8	943.7	165.12	6.715		
17,100.0	7,662.0	17,241.6	7,617.0	167.0	0.0	87.67	9,166.3	1,745.1	1,106.9	940.0	166.85	6.634		
17,200.0	7,662.0	17,341.6	7,617.0	168.7	0.0	87.67	9,266.3	1,744.2	1,105.0	936.4	168.58	6.555		
17,300.0	7,662.0	17,441.6	7,617.0	170.5	0.0	87.66	9,366.3	1,743.4	1,103.1	932.8	170.31	6.477		
17,400.0	7,662.0	17,541.6	7,617.0	172.2	0.0	87.66	9,466.3	1,742.6	1,101.2	929.2	172.04	6.401		
17,500.0	7,662.0	17,641.6	7,617.0	173.9	0.0	87.65	9,566.2	1,741.8	1,099.3	925.5	173.77	6.326		
17,600.0	7,662.0	17,741.5	7,617.0	175.7	0.0	87.65	9,666.2	1,740.9	1,097.4	921.9	175.50	6.253		
17,700.0	7,662.0	17,841.5	7,617.0	177.4	0.0	87.65	9,766.2	1,740.1	1,095.5	918.3	177.24	6.181		
17,800.0	7,662.0	17,941.5	7,617.0	179.1	0.0	87.64	9,866.2	1,739.3	1,093.6	914.7	178.97	6.111		
17,850.8	7,662.0	17,992.3	7,617.0	180.0	0.0	87.64	9,916.9	1,738.9	1,092.7	912.8	179.85	6.075 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.73	0.5	105.0	105.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.73	0.5	105.0	105.0	104.7	0.28	379.072		
200.0	200.0	200.0	200.0	1.0	0.0	89.73	0.5	105.0	105.0	104.2	0.80	131.611		
300.0	300.0	300.0	300.0	1.5	0.0	89.73	0.5	105.0	105.0	103.8	1.22	85.753		
400.0	400.0	400.0	400.0	1.9	0.0	89.73	0.5	105.0	105.0	103.4	1.62	64.880		
500.0	500.0	500.0	500.0	2.3	0.0	89.73	0.5	105.0	105.0	103.0	2.00	52.525 CC, ES		
600.0	600.0	596.5	596.5	2.7	0.0	89.91	0.2	106.6	106.6	104.3	2.37	44.992		
700.0	700.0	692.8	692.6	3.1	0.0	90.43	-0.8	111.3	111.6	108.8	2.73	40.853		
800.0	800.0	788.6	788.2	3.5	0.0	91.19	-2.5	119.2	119.8	116.7	3.08	38.866		
900.0	900.0	883.8	882.7	3.9	0.0	92.09	-4.8	130.1	131.3	127.9	3.43	38.340		
1,000.0	1,000.0	978.2	976.0	4.2	0.0	93.04	-7.7	144.0	146.1	142.4	3.76	38.858		
1,100.0	1,100.0	1,071.5	1,067.8	4.6	0.0	93.97	-11.1	160.6	164.2	160.1	4.09	40.153		
1,200.0	1,200.0	1,163.7	1,157.7	5.0	0.0	94.82	-15.2	179.9	185.4	181.0	4.41	42.045		
1,300.0	1,300.0	1,254.8	1,246.1	5.3	0.0	-28.35	-19.7	201.7	208.3	203.4	4.81	43.259		
1,400.0	1,399.8	1,345.2	1,333.0	5.6	0.0	-28.00	-24.8	226.1	231.2	225.9	5.35	43.196		
1,500.0	1,499.5	1,435.0	1,418.4	6.3	0.0	-27.96	-30.5	253.0	254.2	248.3	5.85	43.441		
1,600.0	1,598.7	1,524.0	1,502.4	7.0	0.0	-28.14	-36.6	282.2	277.2	270.9	6.31	43.899		
1,700.0	1,697.7	1,618.6	1,590.7	7.3	0.0	-28.62	-43.5	315.3	300.6	294.0	6.58	45.715		
1,800.0	1,796.6	1,715.8	1,681.4	7.6	0.0	-29.08	-50.6	349.4	324.1	317.2	6.87	47.207		
1,900.0	1,895.6	1,813.0	1,772.1	7.9	0.0	-29.47	-57.8	383.5	347.6	340.4	7.16	48.514		
2,000.0	1,994.5	1,910.1	1,862.8	8.2	0.0	-29.82	-64.9	417.7	371.1	363.6	7.47	49.663		
2,100.0	2,093.4	2,007.3	1,953.5	8.6	0.0	-30.12	-72.0	451.8	394.7	386.9	7.79	50.675		
2,200.0	2,192.4	2,104.5	2,044.2	8.9	0.0	-30.39	-79.2	485.9	418.2	410.1	8.11	51.570		
2,300.0	2,291.3	2,201.6	2,134.9	9.3	0.0	-30.63	-86.3	520.0	441.8	433.3	8.44	52.363		
2,400.0	2,390.3	2,298.8	2,225.6	9.6	0.0	-30.85	-93.4	554.1	465.3	456.5	8.77	53.067		
2,500.0	2,489.2	2,396.0	2,316.4	10.0	0.0	-31.04	-100.6	588.2	488.9	479.8	9.10	53.694		
2,600.0	2,588.2	2,493.2	2,407.1	10.3	0.0	-31.22	-107.7	622.3	512.4	503.0	9.45	54.255		
2,700.0	2,687.1	2,590.3	2,497.8	10.7	0.0	-31.38	-114.9	656.4	536.0	526.2	9.79	54.756		
2,800.0	2,786.1	2,687.5	2,588.5	11.1	0.0	-31.53	-122.0	690.6	559.6	549.5	10.14	55.207		
2,900.0	2,885.0	2,784.7	2,679.2	11.5	0.0	-31.66	-129.1	724.7	583.2	572.7	10.49	55.613		
3,000.0	2,984.0	2,881.8	2,769.9	11.9	0.0	-31.79	-136.3	758.8	606.8	595.9	10.84	55.980		
3,100.0	3,082.9	2,979.0	2,860.6	12.3	0.0	-31.91	-143.4	792.9	630.3	619.2	11.19	56.312		
3,200.0	3,181.9	3,076.2	2,951.3	12.7	0.0	-32.01	-150.5	827.0	653.9	642.4	11.55	56.613		
3,300.0	3,280.8	3,173.4	3,042.0	13.1	0.0	-32.11	-157.7	861.1	677.5	665.6	11.91	56.887		
3,400.0	3,379.8	3,270.5	3,132.7	13.5	0.0	-32.21	-164.8	895.2	701.1	688.9	12.27	57.137		
3,500.0	3,478.7	3,367.7	3,223.4	13.9	0.0	-32.29	-171.9	929.3	724.7	712.1	12.63	57.365		
3,600.0	3,577.7	3,464.9	3,314.1	14.3	0.0	-32.38	-179.1	963.5	748.3	735.3	13.00	57.574		
3,700.0	3,676.6	3,562.0	3,404.8	14.7	0.0	-32.45	-186.2	997.6	771.9	758.5	13.36	57.766		
3,800.0	3,775.6	3,659.2	3,495.5	15.1	0.0	-32.53	-193.3	1,031.7	795.5	781.8	13.73	57.942		
3,900.0	3,874.5	3,756.4	3,586.2	15.6	0.0	-32.59	-200.5	1,065.8	819.1	805.0	14.10	58.104		
4,000.0	3,973.5	3,853.6	3,676.9	16.0	0.0	-32.66	-207.6	1,099.9	842.7	828.2	14.47	58.254		
4,100.0	4,072.4	3,950.7	3,767.7	16.4	0.0	-32.72	-214.7	1,134.0	866.3	851.5	14.84	58.392		
4,200.0	4,171.4	4,047.9	3,858.4	16.8	0.0	-32.78	-221.9	1,168.1	889.9	874.7	15.21	58.521		
4,300.0	4,270.3	4,145.1	3,949.1	17.2	0.0	-32.83	-229.0	1,202.3	913.5	897.9	15.58	58.639		
4,400.0	4,369.3	4,242.2	4,039.8	17.7	0.0	-32.88	-236.2	1,236.4	937.1	921.2	15.95	58.749		
4,500.0	4,468.2	4,339.4	4,130.5	18.1	0.0	-32.93	-243.3	1,270.5	960.7	944.4	16.32	58.852		
4,600.0	4,567.2	4,436.6	4,221.2	18.5	0.0	-32.98	-250.4	1,304.6	984.3	967.6	16.70	58.947		
4,700.0	4,666.1	4,533.8	4,311.9	18.9	0.0	-33.02	-257.6	1,338.7	1,007.9	990.9	17.07	59.036		
4,800.0	4,765.1	4,630.9	4,402.6	19.4	0.0	-33.07	-264.7	1,372.8	1,031.5	1,014.1	17.45	59.119		
4,900.0	4,864.0	4,728.1	4,493.3	19.8	0.0	-33.11	-271.8	1,406.9	1,055.1	1,037.3	17.82	59.196		
5,000.0	4,962.9	4,825.3	4,584.0	20.2	0.0	-33.15	-279.0	1,441.0	1,078.7	1,060.5	18.20	59.269		
5,100.0	5,061.9	4,922.4	4,674.7	20.6	0.0	-33.18	-286.1	1,475.2	1,102.4	1,083.8	18.58	59.336		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,019.6	4,765.4	21.1	0.0	-33.22	-293.2	1,509.3	1,126.0	1,107.0	18.96	59.400		
5,300.0	5,259.8	5,116.8	4,856.1	21.5	0.0	-33.25	-300.4	1,543.4	1,149.6	1,130.2	19.33	59.459		
5,400.0	5,358.7	5,214.0	4,946.8	21.9	0.0	-33.29	-307.5	1,577.5	1,173.2	1,153.5	19.71	59.515		
5,500.0	5,457.7	5,311.1	5,037.5	22.3	0.0	-33.32	-314.6	1,611.6	1,196.8	1,176.7	20.09	59.568		
5,600.0	5,556.6	5,408.3	5,128.2	22.8	0.0	-33.35	-321.8	1,645.7	1,220.4	1,199.9	20.47	59.617		
5,700.0	5,655.6	5,505.5	5,218.9	23.2	0.0	-33.38	-328.9	1,679.8	1,244.0	1,223.2	20.85	59.664		
5,800.0	5,754.5	5,602.6	5,309.7	23.6	0.0	-33.41	-336.1	1,714.0	1,267.6	1,246.4	21.23	59.707		
5,900.0	5,853.5	5,699.8	5,400.4	24.1	0.0	-33.43	-343.2	1,748.1	1,291.2	1,269.6	21.61	59.749		
6,000.0	5,952.4	5,797.0	5,491.1	24.5	0.0	-33.46	-350.3	1,782.2	1,314.8	1,292.8	21.99	59.787		
6,100.0	6,051.4	5,894.1	5,581.8	24.9	0.0	-33.49	-357.5	1,816.3	1,338.5	1,316.1	22.37	59.824		
6,200.0	6,150.3	5,991.3	5,672.5	25.4	0.0	-33.51	-364.6	1,850.4	1,362.1	1,339.3	22.75	59.858		
6,300.0	6,249.3	6,088.5	5,763.2	25.8	0.0	-33.53	-371.7	1,884.5	1,385.7	1,362.5	23.14	59.891		
6,400.0	6,348.2	6,185.7	5,853.9	26.2	0.0	-33.56	-378.9	1,918.6	1,409.3	1,385.8	23.52	59.922		
6,500.0	6,447.2	6,282.8	5,944.6	26.6	0.0	-33.58	-386.0	1,952.7	1,432.9	1,409.0	23.90	59.951		
6,600.0	6,546.1	6,380.0	6,035.3	27.1	0.0	-33.60	-393.1	1,986.9	1,456.5	1,432.2	24.28	59.978		
6,700.0	6,645.1	6,477.2	6,126.0	27.5	0.0	-33.62	-400.3	2,021.0	1,480.1	1,455.5	24.67	60.004		
6,800.0	6,744.0	6,574.3	6,216.7	27.9	0.0	-33.64	-407.4	2,055.1	1,503.7	1,478.7	25.05	60.029		
6,900.0	6,843.0	6,671.5	6,307.4	28.4	0.0	-33.66	-414.5	2,089.2	1,527.3	1,501.9	25.43	60.052		
7,000.0	6,941.9	6,768.7	6,398.1	28.8	0.0	-33.68	-421.7	2,123.3	1,551.0	1,525.1	25.82	60.074		
7,100.0	7,040.9	6,865.9	6,488.8	29.2	0.0	-33.70	-428.8	2,157.4	1,574.6	1,548.4	26.20	60.095		
7,200.0	7,140.1	6,962.5	6,579.1	29.7	0.0	35.88	-435.9	2,191.4	1,598.5	1,571.9	26.59	60.121		
7,300.0	7,237.8	7,056.2	6,666.5	30.0	0.0	64.28	-442.8	2,224.3	1,622.8	1,595.7	27.11	59.867		
7,400.0	7,331.2	7,144.1	6,748.6	30.5	0.0	72.13	-449.3	2,255.1	1,647.5	1,620.0	27.41	60.096		
7,500.0	7,417.3	7,233.4	6,832.0	30.9	0.0	75.30	-453.9	2,286.5	1,672.8	1,645.2	27.63	60.548		
7,600.0	7,493.6	7,341.2	6,932.3	31.1	0.0	77.01	-442.9	2,323.9	1,698.1	1,670.2	27.89	60.878		
7,700.0	7,557.7	7,468.6	7,046.0	31.2	0.0	78.17	-404.4	2,365.9	1,722.4	1,694.1	28.23	61.020		
7,800.0	7,607.6	7,624.8	7,170.3	31.3	0.0	79.23	-322.3	2,411.2	1,744.2	1,715.6	28.61	60.960		
7,900.0	7,642.0	7,819.1	7,289.1	31.2	0.0	80.20	-175.7	2,453.5	1,761.6	1,732.6	29.01	60.730		
8,000.0	7,659.6	8,049.9	7,361.5	31.1	0.0	80.60	40.5	2,477.2	1,772.2	1,742.8	29.39	60.309		
8,100.0	7,662.0	8,198.1	7,367.0	31.0	0.0	80.43	188.4	2,477.0	1,776.0	1,746.3	29.72	59.757		
8,200.0	7,662.0	8,298.0	7,367.0	31.0	0.0	80.45	288.3	2,475.4	1,779.3	1,749.2	30.11	59.087		
8,300.0	7,662.0	8,398.0	7,367.0	31.0	0.0	80.47	388.3	2,473.9	1,782.5	1,751.9	30.61	58.243		
8,400.0	7,662.0	8,497.9	7,367.0	31.3	0.0	80.49	488.2	2,472.3	1,785.8	1,754.6	31.19	57.257		
8,500.0	7,662.0	8,597.8	7,367.0	31.9	0.0	80.50	588.1	2,470.8	1,789.0	1,757.2	31.86	56.153		
8,600.0	7,662.0	8,697.8	7,367.0	32.7	0.0	80.52	688.1	2,469.2	1,792.3	1,759.7	32.61	54.958		
8,700.0	7,662.0	8,797.7	7,367.0	33.5	0.0	80.54	788.0	2,467.6	1,795.5	1,762.1	33.44	53.694		
8,800.0	7,662.0	8,897.7	7,367.0	34.4	0.0	80.56	887.9	2,466.1	1,798.8	1,764.4	34.34	52.384		
8,900.0	7,662.0	8,997.6	7,367.0	35.4	0.0	80.57	987.9	2,464.5	1,802.0	1,766.7	35.30	51.046		
9,000.0	7,662.0	9,097.6	7,367.0	36.4	0.0	80.59	1,087.8	2,463.0	1,805.3	1,768.9	36.33	49.697		
9,100.0	7,662.0	9,197.5	7,367.0	37.5	0.0	80.61	1,187.7	2,461.4	1,808.5	1,771.1	37.40	48.351		
9,200.0	7,662.0	9,297.5	7,367.0	38.6	0.0	80.62	1,287.7	2,459.9	1,811.8	1,773.2	38.53	47.018		
9,300.0	7,662.0	9,397.4	7,367.0	39.8	0.0	80.64	1,387.6	2,458.3	1,815.0	1,775.3	39.71	45.708		
9,400.0	7,662.0	9,497.4	7,367.0	41.0	0.0	80.66	1,487.5	2,456.7	1,818.3	1,777.3	40.93	44.428		
9,500.0	7,662.0	9,597.3	7,367.0	42.3	0.0	80.67	1,587.5	2,455.2	1,821.5	1,779.3	42.18	43.182		
9,600.0	7,662.0	9,697.3	7,367.0	43.6	0.0	80.69	1,687.4	2,453.6	1,824.8	1,781.3	43.47	41.974		
9,700.0	7,662.0	9,797.2	7,367.0	44.9	0.0	80.71	1,787.3	2,452.1	1,828.0	1,783.2	44.80	40.807		
9,800.0	7,662.0	9,897.1	7,367.0	46.3	0.0	80.72	1,887.3	2,450.5	1,831.3	1,785.1	46.15	39.681		
9,900.0	7,662.0	9,997.1	7,367.0	47.7	0.0	80.74	1,987.2	2,448.9	1,834.5	1,787.0	47.53	38.597		
10,000.0	7,662.0	10,097.0	7,367.0	49.1	0.0	80.76	2,087.1	2,447.4	1,837.8	1,788.8	48.93	37.556		
10,100.0	7,662.0	10,197.0	7,367.0	50.5	0.0	80.77	2,187.1	2,445.8	1,841.0	1,790.7	50.36	36.556		
10,200.0	7,662.0	10,296.9	7,367.0	52.0	0.0	80.79	2,287.0	2,444.3	1,844.3	1,792.5	51.81	35.597		
10,300.0	7,662.0	10,396.9	7,367.0	53.4	0.0	80.81	2,386.9	2,442.7	1,847.5	1,794.2	53.28	34.678		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
10,400.0	7,662.0	10,496.8	7,367.0	54.9	0.0	80.82	2,486.9	2,441.2	1,850.8	1,796.0	54.76	33.797		
10,500.0	7,662.0	10,596.8	7,367.0	56.4	0.0	80.84	2,586.8	2,439.6	1,854.0	1,797.8	56.26	32.953		
10,600.0	7,662.0	10,696.7	7,367.0	58.0	0.0	80.86	2,686.7	2,438.0	1,857.3	1,799.5	57.78	32.145		
10,700.0	7,662.0	10,796.7	7,367.0	59.5	0.0	80.87	2,786.7	2,436.5	1,860.5	1,801.2	59.31	31.371		
10,800.0	7,662.0	10,896.6	7,367.0	61.1	0.0	80.89	2,886.6	2,434.9	1,863.8	1,802.9	60.85	30.629		
10,900.0	7,662.0	10,996.5	7,367.0	62.6	0.0	80.90	2,986.5	2,433.4	1,867.0	1,804.6	62.40	29.918		
11,000.0	7,662.0	11,096.5	7,367.0	64.2	0.0	80.92	3,086.5	2,431.8	1,870.3	1,806.3	63.97	29.237		
11,100.0	7,662.0	11,196.4	7,367.0	65.8	0.0	80.94	3,186.4	2,430.2	1,873.5	1,808.0	65.55	28.583		
11,200.0	7,662.0	11,296.4	7,367.0	67.4	0.0	80.95	3,286.4	2,428.7	1,875.3	1,808.1	67.14	27.933		
11,300.0	7,662.0	11,396.4	7,367.0	69.0	0.0	80.94	3,386.4	2,427.1	1,873.7	1,805.0	68.72	27.266		
11,400.0	7,662.0	11,496.4	7,367.0	70.6	0.0	80.93	3,486.3	2,425.6	1,871.1	1,800.8	70.29	26.619		
11,500.0	7,662.0	11,596.3	7,367.0	72.2	0.0	80.91	3,586.3	2,424.0	1,868.5	1,796.6	71.87	25.998		
11,600.0	7,662.0	11,696.3	7,367.0	73.8	0.0	80.90	3,686.2	2,422.5	1,865.9	1,792.4	73.46	25.400		
11,700.0	7,662.0	11,796.3	7,367.0	75.4	0.0	80.89	3,786.2	2,420.9	1,863.3	1,788.2	75.05	24.826		
11,800.0	7,662.0	11,896.2	7,367.0	77.0	0.0	80.87	3,886.1	2,419.3	1,860.7	1,784.0	76.65	24.274		
11,900.0	7,662.0	11,996.2	7,367.0	78.7	0.0	80.86	3,986.1	2,417.8	1,858.1	1,779.8	78.26	23.742		
12,000.0	7,662.0	12,096.2	7,367.0	80.3	0.0	80.85	4,086.0	2,416.2	1,855.5	1,775.6	79.87	23.231		
12,100.0	7,662.0	12,196.1	7,367.0	81.9	0.0	80.84	4,186.0	2,414.7	1,852.9	1,771.4	81.49	22.738		
12,200.0	7,662.0	12,296.1	7,367.0	83.6	0.0	80.82	4,285.9	2,413.1	1,850.3	1,767.2	83.11	22.263		
12,300.0	7,662.0	12,396.1	7,367.0	85.2	0.0	80.81	4,385.9	2,411.5	1,847.7	1,763.0	84.74	21.805		
12,400.0	7,662.0	12,496.0	7,367.0	86.9	0.0	80.80	4,485.8	2,410.0	1,845.1	1,758.8	86.37	21.363		
12,500.0	7,662.0	12,596.0	7,367.0	88.5	0.0	80.78	4,585.8	2,408.4	1,842.5	1,754.5	88.01	20.937		
12,600.0	7,662.0	12,696.0	7,367.0	90.2	0.0	80.77	4,685.7	2,406.9	1,839.9	1,750.3	89.64	20.525		
12,700.0	7,662.0	12,795.9	7,367.0	91.8	0.0	80.76	4,785.7	2,405.3	1,837.3	1,746.1	91.29	20.127		
12,800.0	7,662.0	12,895.9	7,367.0	93.5	0.0	80.74	4,885.6	2,403.8	1,834.7	1,741.8	92.93	19.743		
12,900.0	7,662.0	12,995.8	7,367.0	95.2	0.0	80.73	4,985.6	2,402.2	1,832.1	1,737.6	94.58	19.371		
13,000.0	7,662.0	13,095.8	7,367.0	96.9	0.0	80.72	5,085.6	2,400.6	1,829.6	1,733.3	96.23	19.012		
13,100.0	7,662.0	13,195.8	7,367.0	98.5	0.0	80.70	5,185.5	2,399.1	1,827.0	1,729.1	97.89	18.664		
13,200.0	7,662.0	13,295.7	7,367.0	100.2	0.0	80.69	5,285.5	2,397.5	1,824.4	1,724.8	99.55	18.327		
13,300.0	7,662.0	13,395.7	7,367.0	101.9	0.0	80.68	5,385.4	2,396.0	1,821.8	1,720.6	101.21	18.000		
13,400.0	7,662.0	13,495.7	7,367.0	103.6	0.0	80.66	5,485.4	2,394.4	1,819.2	1,716.3	102.87	17.684		
13,500.0	7,662.0	13,595.6	7,367.0	105.3	0.0	80.65	5,585.3	2,392.8	1,816.6	1,712.0	104.53	17.378		
13,600.0	7,662.0	13,695.6	7,367.0	107.0	0.0	80.64	5,685.3	2,391.3	1,814.0	1,707.8	106.20	17.081		
13,700.0	7,662.0	13,795.6	7,367.0	108.7	0.0	80.62	5,785.2	2,389.7	1,811.4	1,703.5	107.87	16.792		
13,800.0	7,662.0	13,895.5	7,367.0	110.3	0.0	80.61	5,885.2	2,388.2	1,808.8	1,699.3	109.54	16.512		
13,900.0	7,662.0	13,995.5	7,367.0	112.0	0.0	80.60	5,985.1	2,386.6	1,806.2	1,695.0	111.22	16.240		
14,000.0	7,662.0	14,095.5	7,367.0	113.7	0.0	80.58	6,085.1	2,385.1	1,803.6	1,690.7	112.89	15.977		
14,100.0	7,662.0	14,195.4	7,367.0	115.4	0.0	80.57	6,185.0	2,383.5	1,801.0	1,686.5	114.57	15.720		
14,200.0	7,662.0	14,295.4	7,367.0	117.1	0.0	80.56	6,285.0	2,381.9	1,798.4	1,682.2	116.25	15.471		
14,300.0	7,662.0	14,395.4	7,367.0	118.8	0.0	80.54	6,384.9	2,380.4	1,795.8	1,677.9	117.93	15.228		
14,400.0	7,662.0	14,495.3	7,367.0	120.5	0.0	80.53	6,484.9	2,378.8	1,793.2	1,673.6	119.61	14.993		
14,500.0	7,662.0	14,595.3	7,367.0	122.3	0.0	80.51	6,584.9	2,377.3	1,790.6	1,669.4	121.29	14.763		
14,600.0	7,662.0	14,695.3	7,367.0	124.0	0.0	80.50	6,684.8	2,375.7	1,788.1	1,665.1	122.98	14.540		
14,700.0	7,662.0	14,795.2	7,367.0	125.7	0.0	80.49	6,784.8	2,374.1	1,785.5	1,660.8	124.66	14.322		
14,800.0	7,662.0	14,895.2	7,367.0	127.4	0.0	80.47	6,884.7	2,372.6	1,782.9	1,656.5	126.35	14.111		
14,900.0	7,662.0	14,995.2	7,367.0	129.1	0.0	80.46	6,984.7	2,371.0	1,780.3	1,652.2	128.04	13.904		
15,000.0	7,662.0	15,095.1	7,367.0	130.8	0.0	80.44	7,084.6	2,369.5	1,777.7	1,648.0	129.73	13.703		
15,100.0	7,662.0	15,195.1	7,367.0	132.5	0.0	80.43	7,184.6	2,367.9	1,775.1	1,643.7	131.42	13.507		
15,200.0	7,662.0	15,295.1	7,367.0	134.2	0.0	80.42	7,284.5	2,366.4	1,772.5	1,639.4	133.11	13.316		
15,300.0	7,662.0	15,395.0	7,367.0	136.0	0.0	80.40	7,384.5	2,364.8	1,769.9	1,635.1	134.80	13.130		
15,400.0	7,662.0	15,495.0	7,367.0	137.7	0.0	80.39	7,484.4	2,363.2	1,767.3	1,630.8	136.50	12.948		
15,500.0	7,662.0	15,594.9	7,367.0	139.4	0.0	80.37	7,584.4	2,361.7	1,764.7	1,626.5	138.19	12.770		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,600.0	7,662.0	15,694.9	7,367.0	141.1	0.0	80.36	7,684.3	2,360.1	1,762.1	1,622.2	139.88	12.597		
15,700.0	7,662.0	15,794.9	7,367.0	142.8	0.0	80.35	7,784.3	2,358.6	1,759.5	1,618.0	141.58	12.428		
15,800.0	7,662.0	15,894.8	7,367.0	144.5	0.0	80.33	7,884.2	2,357.0	1,756.9	1,613.7	143.28	12.262		
15,900.0	7,662.0	15,994.8	7,367.0	146.3	0.0	80.32	7,984.2	2,355.4	1,754.4	1,609.4	144.98	12.101		
16,000.0	7,662.0	16,094.8	7,367.0	148.0	0.0	80.30	8,084.2	2,353.9	1,751.8	1,605.1	146.67	11.943		
16,100.0	7,662.0	16,194.7	7,367.0	149.7	0.0	80.29	8,184.1	2,352.3	1,749.2	1,600.8	148.37	11.789		
16,200.0	7,662.0	16,294.7	7,367.0	151.4	0.0	80.27	8,284.1	2,350.8	1,746.6	1,596.5	150.07	11.638		
16,300.0	7,662.0	16,394.7	7,367.0	153.2	0.0	80.26	8,384.0	2,349.2	1,744.0	1,592.2	151.77	11.491		
16,400.0	7,662.0	16,494.6	7,367.0	154.9	0.0	80.24	8,484.0	2,347.7	1,741.4	1,587.9	153.47	11.346		
16,500.0	7,662.0	16,594.6	7,367.0	156.6	0.0	80.23	8,583.9	2,346.1	1,738.8	1,583.6	155.18	11.205		
16,600.0	7,662.0	16,694.6	7,367.0	158.4	0.0	80.21	8,683.9	2,344.5	1,736.2	1,579.3	156.88	11.067		
16,700.0	7,662.0	16,794.5	7,367.0	160.1	0.0	80.20	8,783.8	2,343.0	1,733.6	1,575.0	158.58	10.932		
16,800.0	7,662.0	16,894.5	7,367.0	161.8	0.0	80.18	8,883.8	2,341.4	1,731.0	1,570.7	160.28	10.800		
16,900.0	7,662.0	16,994.5	7,367.0	163.5	0.0	80.17	8,983.7	2,339.9	1,728.4	1,566.5	161.99	10.670		
17,000.0	7,662.0	17,094.4	7,367.0	165.3	0.0	80.15	9,083.7	2,338.3	1,725.9	1,562.2	163.69	10.543		
17,100.0	7,662.0	17,194.4	7,367.0	167.0	0.0	80.14	9,183.6	2,336.7	1,723.3	1,557.9	165.40	10.419		
17,200.0	7,662.0	17,294.4	7,367.0	168.7	0.0	80.12	9,283.6	2,335.2	1,720.7	1,553.6	167.10	10.297		
17,300.0	7,662.0	17,394.3	7,367.0	170.5	0.0	80.11	9,383.5	2,333.6	1,718.1	1,549.3	168.81	10.178		
17,400.0	7,662.0	17,494.3	7,367.0	172.2	0.0	80.09	9,483.5	2,332.1	1,715.5	1,545.0	170.51	10.061		
17,500.0	7,662.0	17,594.3	7,367.0	173.9	0.0	80.08	9,583.5	2,330.5	1,712.9	1,540.7	172.22	9.946		
17,600.0	7,662.0	17,694.2	7,367.0	175.7	0.0	80.06	9,683.4	2,329.0	1,710.3	1,536.4	173.93	9.833		
17,700.0	7,662.0	17,794.2	7,367.0	177.4	0.0	80.05	9,783.4	2,327.4	1,707.7	1,532.1	175.63	9.723		
17,800.0	7,662.0	17,894.2	7,367.0	179.1	0.0	80.03	9,883.3	2,325.8	1,705.1	1,527.8	177.34	9.615		
17,850.8	7,662.0	17,944.9	7,367.0	180.0	0.0	80.03	9,934.1	2,325.0	1,703.8	1,525.6	178.21	9.561 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.70	0.5	90.0	90.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.70	0.5	90.0	90.0	89.7	0.28	324.791		
200.0	200.0	200.0	200.0	1.0	0.0	89.70	0.5	90.0	90.0	89.2	0.80	112.771		
300.0	300.0	300.0	300.0	1.5	0.0	89.70	0.5	90.0	90.0	88.8	1.22	73.481		
400.0	400.0	400.0	400.0	1.9	0.0	89.70	0.5	90.0	90.0	88.4	1.62	55.597		
500.0	500.0	500.0	500.0	2.3	0.0	89.70	0.5	90.0	90.0	88.0	2.00	45.011		
600.0	600.0	600.0	600.0	2.7	0.0	89.70	0.5	90.0	90.0	87.6	2.37	37.922 CC, ES		
700.0	700.0	697.0	697.0	3.1	0.0	89.92	0.1	91.6	91.6	88.9	2.74	33.454		
800.0	800.0	793.8	793.6	3.5	0.0	90.53	-0.9	96.4	96.6	93.5	3.09	31.210		
900.0	900.0	890.1	889.6	3.9	0.0	91.43	-2.6	104.3	104.9	101.4	3.44	30.475		
1,000.0	1,000.0	985.7	984.6	4.2	0.0	92.46	-5.0	115.3	116.5	112.7	3.78	30.816		
1,100.0	1,100.0	1,080.6	1,078.3	4.6	0.0	93.52	-7.9	129.3	131.3	127.2	4.11	31.959		
1,200.0	1,200.0	1,174.3	1,170.5	5.0	0.0	94.52	-11.5	146.1	149.5	145.0	4.43	33.717		
1,300.0	1,300.0	1,267.2	1,261.2	5.3	0.0	-28.60	-15.7	165.6	169.3	164.5	4.84	34.967		
1,400.0	1,399.8	1,359.4	1,350.6	5.6	0.0	-28.28	-20.5	187.8	189.3	183.9	5.39	35.151		
1,500.0	1,499.5	1,451.1	1,438.6	6.3	0.0	-28.33	-25.8	212.7	209.4	203.5	5.89	35.558		
1,600.0	1,598.7	1,542.1	1,525.2	7.0	0.0	-28.64	-31.7	240.1	229.6	223.3	6.36	36.128		
1,700.0	1,697.7	1,632.3	1,610.1	7.3	0.0	-29.17	-38.1	269.9	251.0	244.4	6.58	38.135		
1,800.0	1,796.6	1,729.7	1,701.2	7.6	0.0	-29.65	-45.2	303.4	273.8	266.9	6.87	39.844		
1,900.0	1,895.6	1,827.0	1,792.3	7.9	0.0	-30.05	-52.4	336.9	296.7	289.5	7.17	41.359		
2,000.0	1,994.5	1,924.3	1,883.4	8.2	0.0	-30.40	-59.6	370.4	319.5	312.0	7.48	42.706		
2,100.0	2,093.4	2,021.7	1,974.5	8.6	0.0	-30.70	-66.8	404.0	342.4	334.6	7.80	43.907		
2,200.0	2,192.4	2,119.0	2,065.6	8.9	0.0	-30.96	-74.0	437.5	365.2	357.1	8.12	44.979		
2,300.0	2,291.3	2,216.3	2,156.7	9.3	0.0	-31.19	-81.1	471.0	388.1	379.7	8.45	45.940		
2,400.0	2,390.3	2,313.7	2,247.8	9.6	0.0	-31.40	-88.3	504.5	411.0	402.2	8.78	46.803		
2,500.0	2,489.2	2,411.0	2,338.9	10.0	0.0	-31.58	-95.5	538.0	433.9	424.8	9.12	47.580		
2,600.0	2,588.2	2,508.4	2,430.0	10.3	0.0	-31.75	-102.7	571.6	456.8	447.3	9.46	48.282		
2,700.0	2,687.1	2,605.7	2,521.1	10.7	0.0	-31.90	-109.8	605.1	479.7	469.9	9.81	48.918		
2,800.0	2,786.1	2,703.0	2,612.2	11.1	0.0	-32.03	-117.0	638.6	502.6	492.4	10.15	49.495		
2,900.0	2,885.0	2,800.4	2,703.3	11.5	0.0	-32.16	-124.2	672.1	525.4	514.9	10.50	50.020		
3,000.0	2,984.0	2,897.7	2,794.4	11.9	0.0	-32.27	-131.4	705.6	548.3	537.5	10.86	50.500		
3,100.0	3,082.9	2,995.0	2,885.5	12.3	0.0	-32.38	-138.6	739.2	571.2	560.0	11.21	50.939		
3,200.0	3,181.9	3,092.4	2,976.6	12.7	0.0	-32.47	-145.7	772.7	594.2	582.6	11.57	51.342		
3,300.0	3,280.8	3,189.7	3,067.8	13.1	0.0	-32.56	-152.9	806.2	617.1	605.1	11.93	51.712		
3,400.0	3,379.8	3,287.1	3,158.9	13.5	0.0	-32.65	-160.1	839.7	640.0	627.7	12.29	52.054		
3,500.0	3,478.7	3,384.4	3,250.0	13.9	0.0	-32.72	-167.3	873.2	662.9	650.2	12.66	52.369		
3,600.0	3,577.7	3,481.7	3,341.1	14.3	0.0	-32.79	-174.5	906.8	685.8	672.8	13.02	52.660		
3,700.0	3,676.6	3,579.1	3,432.2	14.7	0.0	-32.86	-181.6	940.3	708.7	695.3	13.39	52.931		
3,800.0	3,775.6	3,676.4	3,523.3	15.1	0.0	-32.93	-188.8	973.8	731.6	717.8	13.76	53.182		
3,900.0	3,874.5	3,773.7	3,614.4	15.6	0.0	-32.98	-196.0	1,007.3	754.5	740.4	14.13	53.416		
4,000.0	3,973.5	3,871.1	3,705.5	16.0	0.0	-33.04	-203.2	1,040.8	777.4	762.9	14.49	53.634		
4,100.0	4,072.4	3,968.4	3,796.6	16.4	0.0	-33.09	-210.4	1,074.4	800.3	785.5	14.87	53.838		
4,200.0	4,171.4	4,065.8	3,887.7	16.8	0.0	-33.14	-217.5	1,107.9	823.2	808.0	15.24	54.028		
4,300.0	4,270.3	4,163.1	3,978.8	17.2	0.0	-33.19	-224.7	1,141.4	846.2	830.5	15.61	54.207		
4,400.0	4,369.3	4,260.4	4,069.9	17.7	0.0	-33.23	-231.9	1,174.9	869.1	853.1	15.98	54.374		
4,500.0	4,468.2	4,357.8	4,161.0	18.1	0.0	-33.28	-239.1	1,208.4	892.0	875.6	16.36	54.531		
4,600.0	4,567.2	4,455.1	4,252.1	18.5	0.0	-33.32	-246.2	1,242.0	914.9	898.2	16.73	54.679		
4,700.0	4,666.1	4,552.4	4,343.2	18.9	0.0	-33.36	-253.4	1,275.5	937.8	920.7	17.11	54.818		
4,800.0	4,765.1	4,649.8	4,434.3	19.4	0.0	-33.39	-260.6	1,309.0	960.7	943.2	17.48	54.950		
4,900.0	4,864.0	4,747.1	4,525.4	19.8	0.0	-33.43	-267.8	1,342.5	983.6	965.8	17.86	55.074		
5,000.0	4,962.9	4,844.5	4,616.5	20.2	0.0	-33.46	-275.0	1,376.0	1,006.6	988.3	18.24	55.191		
5,100.0	5,061.9	4,941.8	4,707.6	20.6	0.0	-33.49	-282.1	1,409.6	1,029.5	1,010.9	18.62	55.302		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,039.1	4,798.7	21.1	0.0	-33.52	-289.3	1,443.1	1,052.4	1,033.4	18.99	55.407		
5,300.0	5,259.8	5,136.5	4,889.8	21.5	0.0	-33.55	-296.5	1,476.6	1,075.3	1,055.9	19.37	55.507		
5,400.0	5,358.7	5,233.8	4,980.9	21.9	0.0	-33.58	-303.7	1,510.1	1,098.2	1,078.5	19.75	55.601		
5,500.0	5,457.7	5,331.1	5,072.0	22.3	0.0	-33.61	-310.9	1,543.6	1,121.1	1,101.0	20.13	55.691		
5,600.0	5,556.6	5,428.5	5,163.1	22.8	0.0	-33.63	-318.0	1,577.2	1,144.1	1,123.5	20.51	55.777		
5,700.0	5,655.6	5,525.8	5,254.2	23.2	0.0	-33.66	-325.2	1,610.7	1,167.0	1,146.1	20.89	55.858		
5,800.0	5,754.5	5,623.2	5,345.3	23.6	0.0	-33.68	-332.4	1,644.2	1,189.9	1,168.6	21.27	55.935		
5,900.0	5,853.5	5,720.5	5,436.4	24.1	0.0	-33.70	-339.6	1,677.7	1,212.8	1,191.2	21.65	56.009		
6,000.0	5,952.4	5,817.8	5,527.5	24.5	0.0	-33.72	-346.8	1,711.2	1,235.7	1,213.7	22.04	56.079		
6,100.0	6,051.4	5,915.2	5,618.6	24.9	0.0	-33.74	-353.9	1,744.7	1,258.6	1,236.2	22.42	56.147		
6,200.0	6,150.3	6,012.5	5,709.7	25.4	0.0	-33.76	-361.1	1,778.3	1,281.6	1,258.8	22.80	56.211		
6,300.0	6,249.3	6,109.8	5,800.8	25.8	0.0	-33.78	-368.3	1,811.8	1,304.5	1,281.3	23.18	56.272		
6,400.0	6,348.2	6,207.2	5,891.9	26.2	0.0	-33.80	-375.5	1,845.3	1,327.4	1,303.8	23.56	56.330		
6,500.0	6,447.2	6,304.5	5,983.0	26.6	0.0	-33.82	-382.6	1,878.8	1,350.3	1,326.4	23.95	56.387		
6,600.0	6,546.1	6,401.9	6,074.1	27.1	0.0	-33.84	-389.8	1,912.3	1,373.2	1,348.9	24.33	56.440		
6,700.0	6,645.1	6,499.2	6,165.2	27.5	0.0	-33.86	-397.0	1,945.9	1,396.2	1,371.4	24.71	56.492		
6,800.0	6,744.0	6,596.5	6,256.3	27.9	0.0	-33.87	-404.2	1,979.4	1,419.1	1,394.0	25.10	56.541		
6,900.0	6,843.0	6,693.9	6,347.4	28.4	0.0	-33.89	-411.4	2,012.9	1,442.0	1,416.5	25.48	56.588		
7,000.0	6,941.9	6,791.2	6,438.5	28.8	0.0	-33.90	-418.5	2,046.4	1,464.9	1,439.1	25.87	56.633		
7,100.0	7,040.9	6,888.5	6,529.6	29.2	0.0	-33.92	-425.7	2,079.9	1,487.8	1,461.6	26.25	56.677		
7,200.0	7,140.1	6,985.4	6,620.2	29.7	0.0	35.75	-432.9	2,113.3	1,511.0	1,484.4	26.64	56.722		
7,300.0	7,237.8	7,079.2	6,708.1	30.0	0.0	64.28	-439.8	2,145.6	1,534.6	1,507.4	27.15	56.516		
7,400.0	7,331.2	7,167.3	6,790.5	30.5	0.0	72.29	-446.3	2,175.9	1,558.6	1,531.1	27.46	56.765		
7,500.0	7,417.3	7,246.9	6,865.0	30.9	0.0	75.44	-452.1	2,203.3	1,583.4	1,555.8	27.63	57.310		
7,600.0	7,493.6	7,347.1	6,958.9	31.1	0.0	77.33	-451.1	2,237.8	1,609.2	1,581.3	27.87	57.746		
7,700.0	7,557.7	7,467.9	7,070.0	31.2	0.0	78.73	-426.7	2,278.1	1,634.7	1,606.5	28.19	57.987		
7,800.0	7,607.6	7,621.8	7,200.4	31.3	0.0	80.18	-360.9	2,324.9	1,658.6	1,630.0	28.59	58.016		
7,900.0	7,642.0	7,827.2	7,340.5	31.2	0.0	81.81	-220.6	2,374.1	1,678.5	1,649.6	28.99	57.892		
8,000.0	7,659.6	8,092.8	7,438.6	31.1	0.0	82.82	21.5	2,406.3	1,690.9	1,661.5	29.36	57.582		
8,100.0	7,662.0	8,259.0	7,447.0	31.0	0.0	82.71	187.3	2,406.8	1,694.9	1,665.2	29.70	57.067		
8,200.0	7,662.0	8,359.0	7,447.0	31.0	0.0	82.72	287.2	2,405.3	1,698.1	1,668.1	30.09	56.438		
8,300.0	7,662.0	8,458.9	7,447.0	31.0	0.0	82.74	387.1	2,403.7	1,701.4	1,670.8	30.58	55.641		
8,400.0	7,662.0	8,558.9	7,447.0	31.3	0.0	82.75	487.1	2,402.2	1,704.7	1,673.5	31.16	54.705		
8,500.0	7,662.0	8,658.8	7,447.0	31.9	0.0	82.76	587.0	2,400.6	1,708.0	1,676.1	31.83	53.656		
8,600.0	7,662.0	8,758.8	7,447.0	32.7	0.0	82.78	686.9	2,399.0	1,711.2	1,678.6	32.58	52.517		
8,700.0	7,662.0	8,858.7	7,447.0	33.5	0.0	82.79	786.9	2,397.5	1,714.5	1,681.1	33.41	51.311		
8,800.0	7,662.0	8,958.6	7,447.0	34.4	0.0	82.81	886.8	2,395.9	1,717.8	1,683.4	34.31	50.059		
8,900.0	7,662.0	9,058.6	7,447.0	35.4	0.0	82.82	986.7	2,394.4	1,721.0	1,685.8	35.28	48.780		
9,000.0	7,662.0	9,158.5	7,447.0	36.4	0.0	82.83	1,086.7	2,392.8	1,724.3	1,688.0	36.31	47.490		
9,100.0	7,662.0	9,258.5	7,447.0	37.5	0.0	82.85	1,186.6	2,391.3	1,727.6	1,690.2	37.39	46.202		
9,200.0	7,662.0	9,358.4	7,447.0	38.6	0.0	82.86	1,286.5	2,389.7	1,730.8	1,692.3	38.53	44.927		
9,300.0	7,662.0	9,458.4	7,447.0	39.8	0.0	82.87	1,386.5	2,388.2	1,734.1	1,694.4	39.71	43.674		
9,400.0	7,662.0	9,558.3	7,447.0	41.0	0.0	82.89	1,486.4	2,386.6	1,737.4	1,696.5	40.93	42.449		
9,500.0	7,662.0	9,658.3	7,447.0	42.3	0.0	82.90	1,586.3	2,385.0	1,740.7	1,698.5	42.19	41.257		
9,600.0	7,662.0	9,758.2	7,447.0	43.6	0.0	82.91	1,686.3	2,383.5	1,743.9	1,700.4	43.49	40.101		
9,700.0	7,662.0	9,858.2	7,447.0	44.9	0.0	82.93	1,786.2	2,381.9	1,747.2	1,702.4	44.82	38.985		
9,800.0	7,662.0	9,958.1	7,447.0	46.3	0.0	82.94	1,886.1	2,380.4	1,750.5	1,704.3	46.18	37.908		
9,900.0	7,662.0	10,058.0	7,447.0	47.7	0.0	82.95	1,986.1	2,378.8	1,753.7	1,706.2	47.56	36.872		
10,000.0	7,662.0	10,158.0	7,447.0	49.1	0.0	82.97	2,086.0	2,377.3	1,757.0	1,708.0	48.97	35.876		
10,100.0	7,662.0	10,257.9	7,447.0	50.5	0.0	82.98	2,185.9	2,375.7	1,760.3	1,709.9	50.41	34.920		
10,200.0	7,662.0	10,357.9	7,447.0	52.0	0.0	82.99	2,285.9	2,374.1	1,763.5	1,711.7	51.86	34.004		
10,300.0	7,662.0	10,457.8	7,447.0	53.4	0.0	83.01	2,385.8	2,372.6	1,766.8	1,713.5	53.34	33.126		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,557.8	7,447.0	54.9	0.0	83.02	2,485.7	2,371.0	1,770.1	1,715.3	54.83	32.284		
10,500.0	7,662.0	10,657.7	7,447.0	56.4	0.0	83.03	2,585.7	2,369.5	1,773.4	1,717.0	56.34	31.478		
10,600.0	7,662.0	10,757.7	7,447.0	58.0	0.0	83.05	2,685.6	2,367.9	1,776.6	1,718.8	57.86	30.706		
10,700.0	7,662.0	10,857.6	7,447.0	59.5	0.0	83.06	2,785.5	2,366.4	1,779.9	1,720.5	59.40	29.967		
10,800.0	7,662.0	10,957.6	7,447.0	61.1	0.0	83.07	2,885.5	2,364.8	1,783.2	1,722.2	60.94	29.259		
10,900.0	7,662.0	11,057.5	7,447.0	62.6	0.0	83.08	2,985.4	2,363.3	1,786.4	1,723.9	62.51	28.580		
11,000.0	7,662.0	11,157.4	7,447.0	64.2	0.0	83.10	3,085.3	2,361.7	1,789.7	1,725.6	64.08	27.930		
11,100.0	7,662.0	11,257.4	7,447.0	65.8	0.0	83.11	3,185.3	2,360.1	1,793.0	1,727.3	65.66	27.307		
11,200.0	7,662.0	11,357.4	7,447.0	67.4	0.0	83.12	3,285.2	2,358.6	1,794.7	1,727.5	67.26	26.685		
11,300.0	7,662.0	11,457.4	7,447.0	69.0	0.0	83.11	3,385.2	2,357.0	1,793.1	1,724.3	68.85	26.045		
11,400.0	7,662.0	11,557.3	7,447.0	70.6	0.0	83.10	3,485.2	2,355.5	1,790.5	1,720.1	70.43	25.424		
11,500.0	7,662.0	11,657.3	7,447.0	72.2	0.0	83.09	3,585.1	2,353.9	1,787.9	1,715.9	72.02	24.827		
11,600.0	7,662.0	11,757.3	7,447.0	73.8	0.0	83.08	3,685.1	2,352.4	1,785.3	1,711.7	73.61	24.253		
11,700.0	7,662.0	11,857.2	7,447.0	75.4	0.0	83.07	3,785.0	2,350.8	1,782.7	1,707.5	75.22	23.701		
11,800.0	7,662.0	11,957.2	7,447.0	77.0	0.0	83.06	3,885.0	2,349.3	1,780.1	1,703.3	76.82	23.171		
11,900.0	7,662.0	12,057.1	7,447.0	78.7	0.0	83.05	3,984.9	2,347.7	1,777.5	1,699.1	78.44	22.661		
12,000.0	7,662.0	12,157.1	7,447.0	80.3	0.0	83.04	4,084.9	2,346.1	1,774.9	1,694.8	80.06	22.170		
12,100.0	7,662.0	12,257.1	7,447.0	81.9	0.0	83.03	4,184.8	2,344.6	1,772.3	1,690.6	81.69	21.696		
12,200.0	7,662.0	12,357.0	7,447.0	83.6	0.0	83.02	4,284.8	2,343.0	1,769.7	1,686.4	83.32	21.241		
12,300.0	7,662.0	12,457.0	7,447.0	85.2	0.0	83.01	4,384.7	2,341.5	1,767.1	1,682.1	84.95	20.801		
12,400.0	7,662.0	12,557.0	7,447.0	86.9	0.0	83.00	4,484.7	2,339.9	1,764.5	1,677.9	86.59	20.377		
12,500.0	7,662.0	12,656.9	7,447.0	88.5	0.0	82.99	4,584.7	2,338.4	1,761.9	1,673.6	88.23	19.968		
12,600.0	7,662.0	12,756.9	7,447.0	90.2	0.0	82.98	4,684.6	2,336.8	1,759.2	1,669.4	89.88	19.573		
12,700.0	7,662.0	12,856.9	7,447.0	91.8	0.0	82.97	4,784.6	2,335.3	1,756.6	1,665.1	91.53	19.191		
12,800.0	7,662.0	12,956.8	7,447.0	93.5	0.0	82.96	4,884.5	2,333.7	1,754.0	1,660.8	93.19	18.823		
12,900.0	7,662.0	13,056.8	7,447.0	95.2	0.0	82.95	4,984.5	2,332.1	1,751.4	1,656.6	94.84	18.466		
13,000.0	7,662.0	13,156.8	7,447.0	96.9	0.0	82.94	5,084.4	2,330.6	1,748.8	1,652.3	96.51	18.121		
13,100.0	7,662.0	13,256.7	7,447.0	98.5	0.0	82.93	5,184.4	2,329.0	1,746.2	1,648.0	98.17	17.788		
13,200.0	7,662.0	13,356.7	7,447.0	100.2	0.0	82.91	5,284.3	2,327.5	1,743.6	1,643.8	99.84	17.465		
13,300.0	7,662.0	13,456.7	7,447.0	101.9	0.0	82.90	5,384.3	2,325.9	1,741.0	1,639.5	101.51	17.152		
13,400.0	7,662.0	13,556.6	7,447.0	103.6	0.0	82.89	5,484.2	2,324.4	1,738.4	1,635.2	103.18	16.849		
13,500.0	7,662.0	13,656.6	7,447.0	105.3	0.0	82.88	5,584.2	2,322.8	1,735.8	1,630.9	104.85	16.555		
13,600.0	7,662.0	13,756.6	7,447.0	107.0	0.0	82.87	5,684.1	2,321.2	1,733.2	1,626.6	106.53	16.270		
13,700.0	7,662.0	13,856.5	7,447.0	108.7	0.0	82.86	5,784.1	2,319.7	1,730.6	1,622.4	108.21	15.993		
13,800.0	7,662.0	13,956.5	7,447.0	110.3	0.0	82.85	5,884.1	2,318.1	1,728.0	1,618.1	109.89	15.725		
13,900.0	7,662.0	14,056.5	7,447.0	112.0	0.0	82.84	5,984.0	2,316.6	1,725.4	1,613.8	111.57	15.465		
14,000.0	7,662.0	14,156.4	7,447.0	113.7	0.0	82.83	6,084.0	2,315.0	1,722.8	1,609.5	113.25	15.211		
14,100.0	7,662.0	14,256.4	7,447.0	115.4	0.0	82.82	6,183.9	2,313.5	1,720.1	1,605.2	114.94	14.966		
14,200.0	7,662.0	14,356.4	7,447.0	117.1	0.0	82.81	6,283.9	2,311.9	1,717.5	1,600.9	116.63	14.727		
14,300.0	7,662.0	14,456.3	7,447.0	118.8	0.0	82.80	6,383.8	2,310.4	1,714.9	1,596.6	118.32	14.494		
14,400.0	7,662.0	14,556.3	7,447.0	120.5	0.0	82.78	6,483.8	2,308.8	1,712.3	1,592.3	120.01	14.268		
14,500.0	7,662.0	14,656.3	7,447.0	122.3	0.0	82.77	6,583.7	2,307.2	1,709.7	1,588.0	121.70	14.049		
14,600.0	7,662.0	14,756.2	7,447.0	124.0	0.0	82.76	6,683.7	2,305.7	1,707.1	1,583.7	123.39	13.835		
14,700.0	7,662.0	14,856.2	7,447.0	125.7	0.0	82.75	6,783.6	2,304.1	1,704.5	1,579.4	125.09	13.626		
14,800.0	7,662.0	14,956.1	7,447.0	127.4	0.0	82.74	6,883.6	2,302.6	1,701.9	1,575.1	126.79	13.423		
14,900.0	7,662.0	15,056.1	7,447.0	129.1	0.0	82.73	6,983.5	2,301.0	1,699.3	1,570.8	128.48	13.226		
15,000.0	7,662.0	15,156.1	7,447.0	130.8	0.0	82.72	7,083.5	2,299.5	1,696.7	1,566.5	130.18	13.033		
15,100.0	7,662.0	15,256.0	7,447.0	132.5	0.0	82.71	7,183.4	2,297.9	1,694.1	1,562.2	131.88	12.845		
15,200.0	7,662.0	15,356.0	7,447.0	134.2	0.0	82.70	7,283.4	2,296.3	1,691.5	1,557.9	133.58	12.662		
15,300.0	7,662.0	15,456.0	7,447.0	136.0	0.0	82.68	7,383.4	2,294.8	1,688.9	1,553.6	135.29	12.484		
15,400.0	7,662.0	15,555.9	7,447.0	137.7	0.0	82.67	7,483.3	2,293.2	1,686.3	1,549.3	136.99	12.309		
15,500.0	7,662.0	15,655.9	7,447.0	139.4	0.0	82.66	7,583.3	2,291.7	1,683.7	1,545.0	138.69	12.139		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NCH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.0	7,662.0	15,755.9	7,447.0	141.1	0.0	82.65	7,683.2	2,290.1	1,681.1	1,540.7	140.40	11.973	
15,700.0	7,662.0	15,855.8	7,447.0	142.8	0.0	82.64	7,783.2	2,288.6	1,678.5	1,536.4	142.11	11.811	
15,800.0	7,662.0	15,955.8	7,447.0	144.5	0.0	82.63	7,883.1	2,287.0	1,675.9	1,532.0	143.81	11.653	
15,900.0	7,662.0	16,055.8	7,447.0	146.3	0.0	82.61	7,983.1	2,285.5	1,673.2	1,527.7	145.52	11.498	
16,000.0	7,662.0	16,155.7	7,447.0	148.0	0.0	82.60	8,083.0	2,283.9	1,670.6	1,523.4	147.23	11.347	
16,100.0	7,662.0	16,255.7	7,447.0	149.7	0.0	82.59	8,183.0	2,282.3	1,668.0	1,519.1	148.94	11.199	
16,200.0	7,662.0	16,355.7	7,447.0	151.4	0.0	82.58	8,282.9	2,280.8	1,665.4	1,514.8	150.65	11.055	
16,300.0	7,662.0	16,455.6	7,447.0	153.2	0.0	82.57	8,382.9	2,279.2	1,662.8	1,510.5	152.36	10.914	
16,400.0	7,662.0	16,555.6	7,447.0	154.9	0.0	82.56	8,482.8	2,277.7	1,660.2	1,506.2	154.07	10.776	
16,500.0	7,662.0	16,655.6	7,447.0	156.6	0.0	82.54	8,582.8	2,276.1	1,657.6	1,501.8	155.78	10.641	
16,600.0	7,662.0	16,755.5	7,447.0	158.4	0.0	82.53	8,682.7	2,274.6	1,655.0	1,497.5	157.50	10.508	
16,700.0	7,662.0	16,855.5	7,447.0	160.1	0.0	82.52	8,782.7	2,273.0	1,652.4	1,493.2	159.21	10.379	
16,800.0	7,662.0	16,955.5	7,447.0	161.8	0.0	82.51	8,882.7	2,271.5	1,649.8	1,488.9	160.92	10.252	
16,900.0	7,662.0	17,055.4	7,447.0	163.5	0.0	82.50	8,982.6	2,269.9	1,647.2	1,484.6	162.64	10.128	
17,000.0	7,662.0	17,155.4	7,447.0	165.3	0.0	82.49	9,082.6	2,268.3	1,644.6	1,480.2	164.35	10.007	
17,100.0	7,662.0	17,255.4	7,447.0	167.0	0.0	82.47	9,182.5	2,266.8	1,642.0	1,475.9	166.07	9.887	
17,200.0	7,662.0	17,355.3	7,447.0	168.7	0.0	82.46	9,282.5	2,265.2	1,639.4	1,471.6	167.78	9.771	
17,300.0	7,662.0	17,455.3	7,447.0	170.5	0.0	82.45	9,382.4	2,263.7	1,636.8	1,467.3	169.50	9.657	
17,400.0	7,662.0	17,555.3	7,447.0	172.2	0.0	82.44	9,482.4	2,262.1	1,634.2	1,463.0	171.22	9.544	
17,500.0	7,662.0	17,655.2	7,447.0	173.9	0.0	82.43	9,582.3	2,260.6	1,631.6	1,458.6	172.94	9.435	
17,600.0	7,662.0	17,755.2	7,447.0	175.7	0.0	82.41	9,682.3	2,259.0	1,629.0	1,454.3	174.65	9.327	
17,700.0	7,662.0	17,855.1	7,447.0	177.4	0.0	82.40	9,782.2	2,257.4	1,626.4	1,450.0	176.37	9.221	
17,800.0	7,662.0	17,955.1	7,447.0	179.1	0.0	82.39	9,882.2	2,255.9	1,623.8	1,445.7	178.09	9.118	
17,850.8	7,662.0	18,005.9	7,447.0	180.0	0.0	82.38	9,932.9	2,255.1	1,622.4	1,443.5	178.96	9.066 SF	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.74	0.3	75.0	75.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.74	0.3	75.0	75.0	74.7	0.28	270.775		
200.0	200.0	200.0	200.0	1.0	0.0	89.74	0.3	75.0	75.0	74.2	0.80	94.009		
300.0	300.0	300.0	300.0	1.5	0.0	89.74	0.3	75.0	75.0	73.8	1.22	61.252		
400.0	400.0	400.0	400.0	1.9	0.0	89.74	0.3	75.0	75.0	73.4	1.62	46.342		
500.0	500.0	500.0	500.0	2.3	0.0	89.74	0.3	75.0	75.0	73.0	2.00	37.517		
600.0	600.0	600.0	600.0	2.7	0.0	89.74	0.3	75.0	75.0	72.6	2.37	31.607		
700.0	700.0	700.0	700.0	3.1	0.0	89.74	0.3	75.0	75.0	72.2	2.74	27.346	CC, ES	
800.0	800.0	797.5	797.5	3.5	0.0	90.03	0.0	76.6	76.6	73.5	3.10	24.688		
900.0	900.0	894.7	894.6	3.9	0.0	90.83	-1.2	81.4	81.6	78.1	3.45	23.622		
1,000.0	1,000.0	991.5	991.0	4.2	0.0	91.97	-3.1	89.4	89.9	86.1	3.79	23.692		
1,100.0	1,100.0	1,087.7	1,086.5	4.6	0.0	93.24	-5.7	100.5	101.5	97.4	4.13	24.607		
1,200.0	1,200.0	1,183.0	1,180.7	5.0	0.0	94.50	-9.0	114.5	116.5	112.0	4.45	26.170		
1,300.0	1,300.0	1,277.5	1,273.6	5.3	0.0	-28.47	-13.0	131.4	133.2	128.3	4.86	27.383		
1,400.0	1,399.8	1,371.4	1,365.3	5.6	0.0	-28.13	-17.7	151.2	150.1	144.7	5.42	27.711		
1,500.0	1,499.5	1,464.8	1,455.8	6.3	0.0	-28.23	-23.0	173.7	167.2	161.2	5.93	28.196		
1,600.0	1,598.7	1,557.7	1,544.9	7.0	0.0	-28.63	-29.0	199.0	184.4	178.0	6.40	28.801		
1,700.0	1,697.7	1,649.8	1,632.5	7.3	0.0	-29.24	-35.6	226.8	202.8	196.2	6.63	30.583		
1,800.0	1,796.6	1,744.5	1,721.6	7.6	0.0	-29.68	-43.0	257.8	223.9	217.0	6.90	32.458		
1,900.0	1,895.6	1,842.1	1,813.5	7.9	0.0	-30.04	-50.6	290.1	245.3	238.1	7.20	34.075		
2,000.0	1,994.5	1,939.8	1,905.3	8.2	0.0	-30.35	-58.2	322.3	266.8	259.3	7.51	35.523		
2,100.0	2,093.4	2,037.4	1,997.2	8.6	0.0	-30.61	-65.9	354.6	288.2	280.4	7.83	36.823		
2,200.0	2,192.4	2,135.1	2,089.1	8.9	0.0	-30.83	-73.5	386.9	309.7	301.6	8.15	37.993		
2,300.0	2,291.3	2,232.8	2,180.9	9.3	0.0	-31.02	-81.2	419.2	331.2	322.7	8.48	39.049		
2,400.0	2,390.3	2,330.4	2,272.8	9.6	0.0	-31.19	-88.8	451.5	352.6	343.8	8.81	40.004		
2,500.0	2,489.2	2,428.1	2,364.6	10.0	0.0	-31.34	-96.5	483.7	374.1	364.9	9.15	40.870		
2,600.0	2,588.2	2,525.8	2,456.5	10.3	0.0	-31.48	-104.1	516.0	395.6	386.1	9.50	41.657		
2,700.0	2,687.1	2,623.4	2,548.3	10.7	0.0	-31.60	-111.8	548.3	417.0	407.2	9.84	42.375		
2,800.0	2,786.1	2,721.1	2,640.2	11.1	0.0	-31.71	-119.4	580.6	438.5	428.3	10.19	43.031		
2,900.0	2,885.0	2,818.8	2,732.1	11.5	0.0	-31.81	-127.0	612.9	460.0	449.4	10.54	43.632		
3,000.0	2,984.0	2,916.4	2,823.9	11.9	0.0	-31.90	-134.7	645.1	481.5	470.6	10.90	44.184		
3,100.0	3,082.9	3,014.1	2,915.8	12.3	0.0	-31.98	-142.3	677.4	502.9	491.7	11.25	44.692		
3,200.0	3,181.9	3,111.8	3,007.6	12.7	0.0	-32.06	-150.0	709.7	524.4	512.8	11.61	45.161		
3,300.0	3,280.8	3,209.4	3,099.5	13.1	0.0	-32.12	-157.6	742.0	545.9	533.9	11.97	45.595		
3,400.0	3,379.8	3,307.1	3,191.4	13.5	0.0	-32.19	-165.3	774.3	567.4	555.0	12.33	45.997		
3,500.0	3,478.7	3,404.7	3,283.2	13.9	0.0	-32.25	-172.9	806.5	588.9	576.2	12.70	46.371		
3,600.0	3,577.7	3,502.4	3,375.1	14.3	0.0	-32.30	-180.6	838.8	610.3	597.3	13.06	46.718		
3,700.0	3,676.6	3,600.1	3,466.9	14.7	0.0	-32.36	-188.2	871.1	631.8	618.4	13.43	47.042		
3,800.0	3,775.6	3,697.7	3,558.8	15.1	0.0	-32.40	-195.9	903.4	653.3	639.5	13.80	47.345		
3,900.0	3,874.5	3,795.4	3,650.6	15.6	0.0	-32.45	-203.5	935.7	674.8	660.6	14.17	47.628		
4,000.0	3,973.5	3,893.1	3,742.5	16.0	0.0	-32.49	-211.1	967.9	696.3	681.7	14.54	47.893		
4,100.0	4,072.4	3,990.7	3,834.4	16.4	0.0	-32.53	-218.8	1,000.2	717.7	702.8	14.91	48.142		
4,200.0	4,171.4	4,088.4	3,926.2	16.8	0.0	-32.57	-226.4	1,032.5	739.2	723.9	15.28	48.376		
4,300.0	4,270.3	4,186.1	4,018.1	17.2	0.0	-32.60	-234.1	1,064.8	760.7	745.1	15.65	48.597		
4,400.0	4,369.3	4,283.7	4,109.9	17.7	0.0	-32.64	-241.7	1,097.1	782.2	766.2	16.03	48.805		
4,500.0	4,468.2	4,381.4	4,201.8	18.1	0.0	-32.67	-249.4	1,129.3	803.7	787.3	16.40	49.001		
4,600.0	4,567.2	4,479.0	4,293.6	18.5	0.0	-32.70	-257.0	1,161.6	825.2	808.4	16.78	49.186		
4,700.0	4,666.1	4,576.7	4,385.5	18.9	0.0	-32.73	-264.7	1,193.9	846.6	829.5	17.15	49.361		
4,800.0	4,765.1	4,674.4	4,477.4	19.4	0.0	-32.75	-272.3	1,226.2	868.1	850.6	17.53	49.527		
4,900.0	4,864.0	4,772.0	4,569.2	19.8	0.0	-32.78	-280.0	1,258.5	889.6	871.7	17.91	49.685		
5,000.0	4,962.9	4,869.7	4,661.1	20.2	0.0	-32.81	-287.6	1,290.7	911.1	892.8	18.28	49.834		
5,100.0	5,061.9	4,967.4	4,752.9	20.6	0.0	-32.83	-295.2	1,323.0	932.6	913.9	18.66	49.977		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,065.0	4,844.8	21.1	0.0	-32.85	-302.9	1,355.3	954.1	935.0	19.04	50.112		
5,300.0	5,259.8	5,162.7	4,936.6	21.5	0.0	-32.87	-310.5	1,387.6	975.6	956.1	19.42	50.241		
5,400.0	5,358.7	5,260.4	5,028.5	21.9	0.0	-32.89	-318.2	1,419.9	997.0	977.2	19.80	50.363		
5,500.0	5,457.7	5,358.0	5,120.4	22.3	0.0	-32.91	-325.8	1,452.1	1,018.5	998.3	20.18	50.481		
5,600.0	5,556.6	5,455.7	5,212.2	22.8	0.0	-32.93	-333.5	1,484.4	1,040.0	1,019.5	20.56	50.592		
5,700.0	5,655.6	5,553.4	5,304.1	23.2	0.0	-32.95	-341.1	1,516.7	1,061.5	1,040.6	20.94	50.699		
5,800.0	5,754.5	5,651.0	5,395.9	23.6	0.0	-32.97	-348.8	1,549.0	1,083.0	1,061.7	21.32	50.801		
5,900.0	5,853.5	5,748.7	5,487.8	24.1	0.0	-32.98	-356.4	1,581.3	1,104.5	1,082.8	21.70	50.899		
6,000.0	5,952.4	5,846.3	5,579.6	24.5	0.0	-33.00	-364.0	1,613.5	1,126.0	1,103.9	22.08	50.993		
6,100.0	6,051.4	5,944.0	5,671.5	24.9	0.0	-33.01	-371.7	1,645.8	1,147.4	1,125.0	22.46	51.083		
6,200.0	6,150.3	6,041.7	5,763.4	25.4	0.0	-33.03	-379.3	1,678.1	1,168.9	1,146.1	22.84	51.169		
6,300.0	6,249.3	6,139.3	5,855.2	25.8	0.0	-33.04	-387.0	1,710.4	1,190.4	1,167.2	23.23	51.251		
6,400.0	6,348.2	6,237.0	5,947.1	26.2	0.0	-33.06	-394.6	1,742.7	1,211.9	1,188.3	23.61	51.331		
6,500.0	6,447.2	6,334.7	6,038.9	26.6	0.0	-33.07	-402.3	1,774.9	1,233.4	1,209.4	23.99	51.407		
6,600.0	6,546.1	6,432.3	6,130.8	27.1	0.0	-33.08	-409.9	1,807.2	1,254.9	1,230.5	24.38	51.480		
6,700.0	6,645.1	6,530.0	6,222.7	27.5	0.0	-33.10	-417.6	1,839.5	1,276.4	1,251.6	24.76	51.551		
6,800.0	6,744.0	6,627.7	6,314.5	27.9	0.0	-33.11	-425.2	1,871.8	1,297.8	1,272.7	25.14	51.618		
6,900.0	6,843.0	6,725.3	6,406.4	28.4	0.0	-33.12	-432.9	1,904.1	1,319.3	1,293.8	25.53	51.684		
7,000.0	6,941.9	6,823.0	6,498.2	28.8	0.0	-33.13	-440.5	1,936.3	1,340.8	1,314.9	25.91	51.747		
7,100.0	7,040.9	6,920.7	6,590.1	29.2	0.0	-33.14	-448.1	1,968.6	1,362.3	1,336.0	26.30	51.807		
7,200.0	7,140.1	7,018.3	6,682.0	29.7	0.0	36.60	-453.4	2,000.9	1,384.2	1,357.5	26.69	51.863		
7,300.0	7,237.8	7,116.9	6,774.5	30.0	0.0	64.69	-443.6	2,033.3	1,406.4	1,379.2	27.24	51.625		
7,400.0	7,331.2	7,217.1	6,865.5	30.5	0.0	71.88	-416.7	2,065.0	1,428.4	1,400.8	27.62	51.721		
7,500.0	7,417.3	7,319.0	6,952.2	30.9	0.0	74.11	-372.4	2,095.0	1,449.4	1,421.5	27.89	51.972		
7,600.0	7,493.6	7,423.0	7,031.6	31.1	0.0	74.65	-311.4	2,122.3	1,468.8	1,440.7	28.12	52.228		
7,700.0	7,557.7	7,529.2	7,100.6	31.2	0.0	74.51	-234.4	2,145.9	1,486.1	1,457.7	28.36	52.409		
7,800.0	7,607.6	7,637.4	7,156.0	31.3	0.0	74.10	-143.6	2,164.6	1,500.6	1,472.0	28.61	52.459		
7,900.0	7,642.0	7,747.4	7,194.8	31.2	0.0	73.63	-41.6	2,177.3	1,511.9	1,483.0	28.89	52.340		
8,000.0	7,659.6	7,858.7	7,214.6	31.1	0.0	73.19	67.6	2,183.4	1,519.6	1,490.4	29.20	52.035		
8,100.0	7,662.0	7,964.3	7,217.0	31.0	0.0	73.01	173.2	2,183.4	1,524.0	1,494.4	29.55	51.573		
8,200.0	7,662.0	8,064.2	7,217.0	31.0	0.0	73.05	273.1	2,182.5	1,527.8	1,497.9	29.95	51.005		
8,300.0	7,662.0	8,164.2	7,217.0	31.0	0.0	73.10	373.0	2,181.7	1,531.7	1,501.2	30.46	50.293		
8,400.0	7,662.0	8,264.1	7,217.0	31.3	0.0	73.14	472.9	2,180.9	1,535.5	1,504.5	31.04	49.465		
8,500.0	7,662.0	8,364.0	7,217.0	31.9	0.0	73.18	572.8	2,180.1	1,539.4	1,507.7	31.71	48.540		
8,600.0	7,662.0	8,463.9	7,217.0	32.7	0.0	73.23	672.7	2,179.2	1,543.3	1,510.8	32.46	47.540		
8,700.0	7,662.0	8,563.8	7,217.0	33.5	0.0	73.27	772.6	2,178.4	1,547.1	1,513.8	33.28	46.484		
8,800.0	7,662.0	8,663.8	7,217.0	34.4	0.0	73.31	872.6	2,177.6	1,551.0	1,516.8	34.17	45.390		
8,900.0	7,662.0	8,763.7	7,217.0	35.4	0.0	73.36	972.5	2,176.8	1,554.8	1,519.7	35.12	44.272		
9,000.0	7,662.0	8,863.6	7,217.0	36.4	0.0	73.40	1,072.4	2,175.9	1,558.7	1,522.5	36.13	43.144		
9,100.0	7,662.0	8,963.5	7,217.0	37.5	0.0	73.44	1,172.3	2,175.1	1,562.5	1,525.3	37.19	42.018		
9,200.0	7,662.0	9,063.4	7,217.0	38.6	0.0	73.48	1,272.2	2,174.3	1,566.4	1,528.1	38.30	40.902		
9,300.0	7,662.0	9,163.4	7,217.0	39.8	0.0	73.52	1,372.1	2,173.4	1,570.2	1,530.8	39.45	39.804		
9,400.0	7,662.0	9,263.3	7,217.0	41.0	0.0	73.57	1,472.1	2,172.6	1,574.1	1,533.5	40.64	38.730		
9,500.0	7,662.0	9,363.2	7,217.0	42.3	0.0	73.61	1,572.0	2,171.8	1,578.0	1,536.1	41.87	37.683		
9,600.0	7,662.0	9,463.1	7,217.0	43.6	0.0	73.65	1,671.9	2,171.0	1,581.8	1,538.7	43.14	36.667		
9,700.0	7,662.0	9,563.0	7,217.0	44.9	0.0	73.69	1,771.8	2,170.1	1,585.7	1,541.3	44.44	35.684		
9,800.0	7,662.0	9,663.0	7,217.0	46.3	0.0	73.73	1,871.7	2,169.3	1,589.6	1,543.8	45.76	34.734		
9,900.0	7,662.0	9,762.9	7,217.0	47.7	0.0	73.77	1,971.6	2,168.5	1,593.4	1,546.3	47.12	33.820		
10,000.0	7,662.0	9,862.8	7,217.0	49.1	0.0	73.81	2,071.5	2,167.7	1,597.3	1,548.8	48.49	32.939		
10,100.0	7,662.0	9,962.7	7,217.0	50.5	0.0	73.85	2,171.5	2,166.8	1,601.2	1,551.3	49.89	32.093		
10,200.0	7,662.0	10,062.6	7,217.0	52.0	0.0	73.89	2,271.4	2,166.0	1,605.0	1,553.7	51.31	31.281		
10,300.0	7,662.0	10,162.5	7,217.0	53.4	0.0	73.93	2,371.3	2,165.2	1,608.9	1,556.1	52.75	30.502		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,662.0	10,262.5	7,217.0	54.9	0.0	73.97	2,471.2	2,164.4	1,612.8	1,558.6	54.20	29.754		
10,500.0	7,662.0	10,362.4	7,217.0	56.4	0.0	74.01	2,571.1	2,163.5	1,616.6	1,561.0	55.67	29.037		
10,600.0	7,662.0	10,462.3	7,217.0	58.0	0.0	74.05	2,671.0	2,162.7	1,620.5	1,563.3	57.16	28.350		
10,700.0	7,662.0	10,562.2	7,217.0	59.5	0.0	74.09	2,771.0	2,161.9	1,624.4	1,565.7	58.66	27.691		
10,800.0	7,662.0	10,662.1	7,217.0	61.1	0.0	74.13	2,870.9	2,161.1	1,628.2	1,568.1	60.17	27.059		
10,900.0	7,662.0	10,762.1	7,217.0	62.6	0.0	74.17	2,970.8	2,160.2	1,632.1	1,570.4	61.70	26.453		
11,000.0	7,662.0	10,862.0	7,217.0	64.2	0.0	74.20	3,070.7	2,159.4	1,636.0	1,572.7	63.24	25.871		
11,100.0	7,662.0	10,961.9	7,217.0	65.8	0.0	74.24	3,170.6	2,158.6	1,639.9	1,575.1	64.78	25.313		
11,200.0	7,662.0	11,061.9	7,217.0	67.4	0.0	74.28	3,270.6	2,157.8	1,642.3	1,575.9	66.34	24.755		
11,300.0	7,662.0	11,161.9	7,217.0	69.0	0.0	74.27	3,370.6	2,156.9	1,641.4	1,573.5	67.89	24.177		
11,400.0	7,662.0	11,261.8	7,217.0	70.6	0.0	74.25	3,470.5	2,156.1	1,639.6	1,570.2	69.43	23.616		
11,500.0	7,662.0	11,361.8	7,217.0	72.2	0.0	74.23	3,570.5	2,155.3	1,637.8	1,566.8	70.97	23.076		
11,600.0	7,662.0	11,461.8	7,217.0	73.8	0.0	74.21	3,670.5	2,154.4	1,635.9	1,563.4	72.52	22.558		
11,700.0	7,662.0	11,561.8	7,217.0	75.4	0.0	74.19	3,770.5	2,153.6	1,634.1	1,560.0	74.08	22.058		
11,800.0	7,662.0	11,661.8	7,217.0	77.0	0.0	74.18	3,870.5	2,152.8	1,632.3	1,556.6	75.65	21.578		
11,900.0	7,662.0	11,761.7	7,217.0	78.7	0.0	74.16	3,970.4	2,152.0	1,630.5	1,553.2	77.22	21.116		
12,000.0	7,662.0	11,861.7	7,217.0	80.3	0.0	74.14	4,070.4	2,151.1	1,628.6	1,549.8	78.79	20.670		
12,100.0	7,662.0	11,961.7	7,217.0	81.9	0.0	74.12	4,170.4	2,150.3	1,626.8	1,546.4	80.37	20.241		
12,200.0	7,662.0	12,061.7	7,217.0	83.6	0.0	74.10	4,270.4	2,149.5	1,625.0	1,543.0	81.95	19.828		
12,300.0	7,662.0	12,161.7	7,217.0	85.2	0.0	74.09	4,370.4	2,148.7	1,623.2	1,539.6	83.54	19.429		
12,400.0	7,662.0	12,261.7	7,217.0	86.9	0.0	74.07	4,470.3	2,147.8	1,621.3	1,536.2	85.14	19.044		
12,500.0	7,662.0	12,361.6	7,217.0	88.5	0.0	74.05	4,570.3	2,147.0	1,619.5	1,532.8	86.73	18.672		
12,600.0	7,662.0	12,461.6	7,217.0	90.2	0.0	74.03	4,670.3	2,146.2	1,617.7	1,529.3	88.33	18.313		
12,700.0	7,662.0	12,561.6	7,217.0	91.8	0.0	74.01	4,770.3	2,145.4	1,615.9	1,525.9	89.94	17.966		
12,800.0	7,662.0	12,661.6	7,217.0	93.5	0.0	73.99	4,870.2	2,144.5	1,614.0	1,522.5	91.55	17.631		
12,900.0	7,662.0	12,761.6	7,217.0	95.2	0.0	73.97	4,970.2	2,143.7	1,612.2	1,519.1	93.16	17.306		
13,000.0	7,662.0	12,861.5	7,217.0	96.9	0.0	73.96	5,070.2	2,142.9	1,610.4	1,515.6	94.77	16.993		
13,100.0	7,662.0	12,961.5	7,217.0	98.5	0.0	73.94	5,170.2	2,142.0	1,608.6	1,512.2	96.39	16.689		
13,200.0	7,662.0	13,061.5	7,217.0	100.2	0.0	73.92	5,270.2	2,141.2	1,606.7	1,508.7	98.00	16.395		
13,300.0	7,662.0	13,161.5	7,217.0	101.9	0.0	73.90	5,370.1	2,140.4	1,604.9	1,505.3	99.62	16.110		
13,400.0	7,662.0	13,261.5	7,217.0	103.6	0.0	73.88	5,470.1	2,139.6	1,603.1	1,501.8	101.25	15.833		
13,500.0	7,662.0	13,361.5	7,217.0	105.3	0.0	73.86	5,570.1	2,138.7	1,601.3	1,498.4	102.87	15.566		
13,600.0	7,662.0	13,461.4	7,217.0	107.0	0.0	73.84	5,670.1	2,137.9	1,599.5	1,494.9	104.50	15.306		
13,700.0	7,662.0	13,561.4	7,217.0	108.7	0.0	73.82	5,770.1	2,137.1	1,597.6	1,491.5	106.13	15.054		
13,800.0	7,662.0	13,661.4	7,217.0	110.3	0.0	73.81	5,870.0	2,136.3	1,595.8	1,488.0	107.76	14.809		
13,900.0	7,662.0	13,761.4	7,217.0	112.0	0.0	73.79	5,970.0	2,135.4	1,594.0	1,484.6	109.39	14.571		
14,000.0	7,662.0	13,861.4	7,217.0	113.7	0.0	73.77	6,070.0	2,134.6	1,592.2	1,481.1	111.03	14.340		
14,100.0	7,662.0	13,961.4	7,217.0	115.4	0.0	73.75	6,170.0	2,133.8	1,590.3	1,477.7	112.66	14.116		
14,200.0	7,662.0	14,061.3	7,217.0	117.1	0.0	73.73	6,269.9	2,133.0	1,588.5	1,474.2	114.30	13.898		
14,300.0	7,662.0	14,161.3	7,217.0	118.8	0.0	73.71	6,369.9	2,132.1	1,586.7	1,470.8	115.94	13.685		
14,400.0	7,662.0	14,261.3	7,217.0	120.5	0.0	73.69	6,469.9	2,131.3	1,584.9	1,467.3	117.58	13.479		
14,500.0	7,662.0	14,361.3	7,217.0	122.3	0.0	73.67	6,569.9	2,130.5	1,583.1	1,463.8	119.22	13.278		
14,600.0	7,662.0	14,461.3	7,217.0	124.0	0.0	73.65	6,669.9	2,129.6	1,581.2	1,460.4	120.86	13.083		
14,700.0	7,662.0	14,561.2	7,217.0	125.7	0.0	73.63	6,769.8	2,128.8	1,579.4	1,456.9	122.51	12.892		
14,800.0	7,662.0	14,661.2	7,217.0	127.4	0.0	73.61	6,869.8	2,128.0	1,577.6	1,453.4	124.15	12.707		
14,900.0	7,662.0	14,761.2	7,217.0	129.1	0.0	73.59	6,969.8	2,127.2	1,575.8	1,450.0	125.80	12.526		
15,000.0	7,662.0	14,861.2	7,217.0	130.8	0.0	73.57	7,069.8	2,126.3	1,574.0	1,446.5	127.45	12.350		
15,100.0	7,662.0	14,961.2	7,217.0	132.5	0.0	73.55	7,169.8	2,125.5	1,572.1	1,443.0	129.09	12.178		
15,200.0	7,662.0	15,061.2	7,217.0	134.2	0.0	73.54	7,269.7	2,124.7	1,570.3	1,439.6	130.74	12.011		
15,300.0	7,662.0	15,161.1	7,217.0	136.0	0.0	73.52	7,369.7	2,123.9	1,568.5	1,436.1	132.39	11.847		
15,400.0	7,662.0	15,261.1	7,217.0	137.7	0.0	73.50	7,469.7	2,123.0	1,566.7	1,432.6	134.04	11.688		
15,500.0	7,662.0	15,361.1	7,217.0	139.4	0.0	73.48	7,569.7	2,122.2	1,564.9	1,429.2	135.69	11.532		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - CONNER 19-18-4NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,600.0	7,662.0	15,461.1	7,217.0	141.1	0.0	73.46	7,669.6	2,121.4	1,563.0	1,425.7	137.35	11.380		
15,700.0	7,662.0	15,561.1	7,217.0	142.8	0.0	73.44	7,769.6	2,120.6	1,561.2	1,422.2	139.00	11.232		
15,800.0	7,662.0	15,661.0	7,217.0	144.5	0.0	73.42	7,869.6	2,119.7	1,559.4	1,418.8	140.65	11.087		
15,900.0	7,662.0	15,761.0	7,217.0	146.3	0.0	73.40	7,969.6	2,118.9	1,557.6	1,415.3	142.30	10.945		
16,000.0	7,662.0	15,861.0	7,217.0	148.0	0.0	73.38	8,069.6	2,118.1	1,555.8	1,411.8	143.96	10.807		
16,100.0	7,662.0	15,961.0	7,217.0	149.7	0.0	73.36	8,169.5	2,117.2	1,554.0	1,408.3	145.61	10.672		
16,200.0	7,662.0	16,061.0	7,217.0	151.4	0.0	73.34	8,269.5	2,116.4	1,552.1	1,404.9	147.27	10.539		
16,300.0	7,662.0	16,161.0	7,217.0	153.2	0.0	73.32	8,369.5	2,115.6	1,550.3	1,401.4	148.92	10.410		
16,400.0	7,662.0	16,260.9	7,217.0	154.9	0.0	73.30	8,469.5	2,114.8	1,548.5	1,397.9	150.58	10.284		
16,500.0	7,662.0	16,360.9	7,217.0	156.6	0.0	73.28	8,569.5	2,113.9	1,546.7	1,394.4	152.24	10.160		
16,600.0	7,662.0	16,460.9	7,217.0	158.4	0.0	73.26	8,669.4	2,113.1	1,544.9	1,391.0	153.89	10.039		
16,700.0	7,662.0	16,560.9	7,217.0	160.1	0.0	73.24	8,769.4	2,112.3	1,543.1	1,387.5	155.55	9.920		
16,800.0	7,662.0	16,660.9	7,217.0	161.8	0.0	73.22	8,869.4	2,111.5	1,541.2	1,384.0	157.21	9.804		
16,900.0	7,662.0	16,760.8	7,217.0	163.5	0.0	73.19	8,969.4	2,110.6	1,539.4	1,380.6	158.87	9.690		
17,000.0	7,662.0	16,860.8	7,217.0	165.3	0.0	73.17	9,069.3	2,109.8	1,537.6	1,377.1	160.53	9.579		
17,100.0	7,662.0	16,960.8	7,217.0	167.0	0.0	73.15	9,169.3	2,109.0	1,535.8	1,373.6	162.18	9.469		
17,200.0	7,662.0	17,060.8	7,217.0	168.7	0.0	73.13	9,269.3	2,108.2	1,534.0	1,370.1	163.84	9.362		
17,300.0	7,662.0	17,160.8	7,217.0	170.5	0.0	73.11	9,369.3	2,107.3	1,532.2	1,366.7	165.50	9.258		
17,400.0	7,662.0	17,260.8	7,217.0	172.2	0.0	73.09	9,469.3	2,106.5	1,530.3	1,363.2	167.16	9.155		
17,500.0	7,662.0	17,360.7	7,217.0	173.9	0.0	73.07	9,569.2	2,105.7	1,528.5	1,359.7	168.82	9.054		
17,600.0	7,662.0	17,460.7	7,217.0	175.7	0.0	73.05	9,669.2	2,104.8	1,526.7	1,356.2	170.48	8.955		
17,700.0	7,662.0	17,560.7	7,217.0	177.4	0.0	73.03	9,769.2	2,104.0	1,524.9	1,352.8	172.14	8.858		
17,800.0	7,662.0	17,660.7	7,217.0	179.1	0.0	73.01	9,869.2	2,103.2	1,523.1	1,349.3	173.80	8.763		
17,850.8	7,662.0	17,711.4	7,217.0	180.0	0.0	73.00	9,919.9	2,102.8	1,522.2	1,347.5	174.64	8.716 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - Gail #1 (PR) - EXISTING - NO SURVEYS (PR)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.0	7,662.0	7,593.0	7,593.0	113.7	28.2	-90.00	8,132.7	45.1	2,149.7	2,075.9	73.82	29.122		
14,100.0	7,662.0	7,593.0	7,593.0	115.4	28.2	-90.00	8,132.7	45.1	2,053.7	1,978.4	75.23	27.299		
14,200.0	7,662.0	7,593.0	7,593.0	117.1	28.2	-90.00	8,132.7	45.1	1,958.0	1,881.2	76.81	25.493		
14,300.0	7,662.0	7,593.0	7,593.0	118.8	28.2	-90.00	8,132.7	45.1	1,862.8	1,784.2	78.57	23.708		
14,400.0	7,662.0	7,593.0	7,593.0	120.5	28.2	-90.00	8,132.7	45.1	1,768.1	1,687.5	80.55	21.949		
14,500.0	7,662.0	7,593.0	7,593.0	122.3	28.2	-90.00	8,132.7	45.1	1,674.0	1,591.2	82.79	20.220		
14,600.0	7,662.0	7,593.0	7,593.0	124.0	28.2	-90.00	8,132.7	45.1	1,580.6	1,495.3	85.32	18.526		
14,700.0	7,662.0	7,593.0	7,593.0	125.7	28.2	-90.00	8,132.7	45.1	1,488.1	1,399.9	88.19	16.873		
14,800.0	7,662.0	7,593.0	7,593.0	127.4	28.2	-90.00	8,132.7	45.1	1,396.7	1,305.2	91.47	15.269		
14,900.0	7,662.0	7,593.0	7,593.0	129.1	28.2	-90.00	8,132.7	45.1	1,306.5	1,211.3	95.21	13.721		
15,000.0	7,662.0	7,593.0	7,593.0	130.8	28.2	-90.00	8,132.7	45.1	1,217.8	1,118.3	99.51	12.238		
15,100.0	7,662.0	7,593.0	7,593.0	132.5	28.2	-90.00	8,132.7	45.1	1,131.0	1,026.6	104.45	10.828		
15,200.0	7,662.0	7,593.0	7,593.0	134.2	28.2	-90.00	8,132.7	45.1	1,046.6	936.5	110.13	9.503		
15,300.0	7,662.0	7,593.0	7,593.0	136.0	28.2	-90.00	8,132.7	45.1	965.2	848.5	116.65	8.274		
15,400.0	7,662.0	7,593.0	7,593.0	137.7	28.2	-90.00	8,132.7	45.1	887.5	763.4	124.09	7.152		
15,500.0	7,662.0	7,593.0	7,593.0	139.4	28.2	-90.00	8,132.7	45.1	814.8	682.3	132.49	6.150		
15,600.0	7,662.0	7,593.0	7,593.0	141.1	28.2	-90.00	8,132.7	45.1	748.3	606.6	141.73	5.280		
15,700.0	7,662.0	7,593.0	7,593.0	142.8	28.2	-90.00	8,132.7	45.1	690.0	538.6	151.49	4.555		
15,800.0	7,662.0	7,593.0	7,593.0	144.5	28.2	-90.00	8,132.7	45.1	642.1	481.0	161.08	3.986		
15,900.0	7,662.0	7,593.0	7,593.0	146.3	28.2	-90.00	8,132.7	45.1	607.0	437.6	169.39	3.584		
16,000.0	7,662.0	7,593.0	7,593.0	148.0	28.2	-90.00	8,132.7	45.1	587.1	412.0	175.06	3.353		
16,069.2	7,662.0	7,593.0	7,593.0	149.2	28.2	-90.00	8,132.7	45.1	583.0	406.2	176.82	3.297 CC, ES, SF		
16,100.0	7,662.0	7,593.0	7,593.0	149.7	28.2	-90.00	8,132.7	45.1	583.8	406.8	176.97	3.299		
16,200.0	7,662.0	7,593.0	7,593.0	151.4	28.2	-90.00	8,132.7	45.1	597.5	422.7	174.81	3.418		
16,300.0	7,662.0	7,593.0	7,593.0	153.2	28.2	-90.00	8,132.7	45.1	627.0	457.8	169.25	3.705		
16,400.0	7,662.0	7,593.0	7,593.0	154.9	28.2	-90.00	8,132.7	45.1	670.3	508.7	161.55	4.149		
16,500.0	7,662.0	7,593.0	7,593.0	156.6	28.2	-90.00	8,132.7	45.1	724.9	571.9	152.95	4.739		
16,600.0	7,662.0	7,593.0	7,593.0	158.4	28.2	-90.00	8,132.7	45.1	788.4	644.1	144.35	5.462		
16,700.0	7,662.0	7,593.0	7,593.0	160.1	28.2	-90.00	8,132.7	45.1	858.9	722.7	136.26	6.304		
16,800.0	7,662.0	7,593.0	7,593.0	161.8	28.2	-90.00	8,132.7	45.1	934.8	805.9	128.92	7.252		
16,900.0	7,662.0	7,593.0	7,593.0	163.5	28.2	-90.00	8,132.7	45.1	1,014.9	892.6	122.39	8.293		
17,000.0	7,662.0	7,593.0	7,593.0	165.3	28.2	-90.00	8,132.7	45.1	1,098.3	981.7	116.64	9.416		
17,100.0	7,662.0	7,593.0	7,593.0	167.0	28.2	-90.00	8,132.7	45.1	1,184.2	1,072.6	111.60	10.611		
17,200.0	7,662.0	7,593.0	7,593.0	168.7	28.2	-90.00	8,132.7	45.1	1,272.2	1,165.1	107.19	11.869		
17,300.0	7,662.0	7,593.0	7,593.0	170.5	28.2	-90.00	8,132.7	45.1	1,361.9	1,258.6	103.32	13.181		
17,400.0	7,662.0	7,593.0	7,593.0	172.2	28.2	-90.00	8,132.7	45.1	1,452.9	1,353.0	99.93	14.540		
17,500.0	7,662.0	7,593.0	7,593.0	173.9	28.2	-90.00	8,132.7	45.1	1,545.0	1,448.1	96.94	15.938		
17,600.0	7,662.0	7,593.0	7,593.0	175.7	28.2	-90.00	8,132.7	45.1	1,638.1	1,543.8	94.30	17.371		
17,700.0	7,662.0	7,593.0	7,593.0	177.4	28.2	-90.00	8,132.7	45.1	1,731.9	1,639.9	91.96	18.833		
17,800.0	7,662.0	7,593.0	7,593.0	179.1	28.2	-90.00	8,132.7	45.1	1,826.4	1,736.5	89.88	20.320		
17,850.8	7,662.0	7,593.0	7,593.0	180.0	28.2	-90.00	8,132.7	45.1	1,874.5	1,785.6	88.91	21.083		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> S19-T1S-R65W - Gail Smith #1 (PR) - EXISTING - NO SURVEYS (PR)												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 100-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,300.0	7,662.0	7,593.0	7,593.0	170.5	28.2	-90.00	9,757.9	-1,536.2	2,214.0	2,017.7	196.33	11.277	
17,400.0	7,662.0	7,593.0	7,593.0	172.2	28.2	-90.00	9,757.9	-1,536.2	2,199.2	2,000.2	198.97	11.052	
17,500.0	7,662.0	7,593.0	7,593.0	173.9	28.2	-90.00	9,757.9	-1,536.2	2,188.8	1,987.5	201.32	10.872	
17,600.0	7,662.0	7,593.0	7,593.0	175.7	28.2	-90.00	9,757.9	-1,536.2	2,183.0	1,979.6	203.33	10.736	
17,677.4	7,662.0	7,593.0	7,593.0	177.0	28.2	-90.00	9,757.9	-1,536.2	2,181.6	1,976.9	204.65	10.660 CC	
17,700.0	7,662.0	7,593.0	7,593.0	177.4	28.2	-90.00	9,757.9	-1,536.2	2,181.7	1,976.7	205.00	10.643 ES	
17,800.0	7,662.0	7,593.0	7,593.0	179.1	28.2	-90.00	9,757.9	-1,536.2	2,185.0	1,978.7	206.30	10.591	
17,850.8	7,662.0	7,593.0	7,593.0	180.0	28.2	-90.00	9,757.9	-1,536.2	2,188.5	1,981.6	206.83	10.581 SF	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)													Offset Site Error: 0.0 usft	
Survey Program: 100-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,400.0	7,662.0	7,593.0	7,593.0	86.9	28.2	-90.00	5,915.5	-1,024.4	2,174.5	2,076.6	97.87	22.217		
12,500.0	7,662.0	7,593.0	7,593.0	88.5	28.2	-90.00	5,915.5	-1,024.4	2,109.6	2,008.9	100.71	20.946		
12,600.0	7,662.0	7,593.0	7,593.0	90.2	28.2	-90.00	5,915.5	-1,024.4	2,047.5	1,943.8	103.67	19.749		
12,700.0	7,662.0	7,593.0	7,593.0	91.8	28.2	-90.00	5,915.5	-1,024.4	1,988.5	1,881.7	106.73	18.630		
12,800.0	7,662.0	7,593.0	7,593.0	93.5	28.2	-90.00	5,915.5	-1,024.4	1,932.8	1,823.0	109.88	17.590		
12,900.0	7,662.0	7,593.0	7,593.0	95.2	28.2	-90.00	5,915.5	-1,024.4	1,880.9	1,767.8	113.09	16.632		
13,000.0	7,662.0	7,593.0	7,593.0	96.9	28.2	-90.00	5,915.5	-1,024.4	1,832.9	1,716.6	116.33	15.756		
13,100.0	7,662.0	7,593.0	7,593.0	98.5	28.2	-90.00	5,915.5	-1,024.4	1,789.3	1,669.7	119.56	14.965		
13,200.0	7,662.0	7,593.0	7,593.0	100.2	28.2	-90.00	5,915.5	-1,024.4	1,750.2	1,627.5	122.75	14.259		
13,300.0	7,662.0	7,593.0	7,593.0	101.9	28.2	-90.00	5,915.5	-1,024.4	1,716.1	1,590.3	125.84	13.638		
13,400.0	7,662.0	7,593.0	7,593.0	103.6	28.2	-90.00	5,915.5	-1,024.4	1,687.3	1,558.5	128.78	13.102		
13,500.0	7,662.0	7,593.0	7,593.0	105.3	28.2	-90.00	5,915.5	-1,024.4	1,664.0	1,532.5	131.52	12.652		
13,600.0	7,662.0	7,593.0	7,593.0	107.0	28.2	-90.00	5,915.5	-1,024.4	1,646.4	1,512.4	134.00	12.287		
13,700.0	7,662.0	7,593.0	7,593.0	108.7	28.2	-90.00	5,915.5	-1,024.4	1,634.8	1,498.6	136.18	12.005		
13,800.0	7,662.0	7,593.0	7,593.0	110.3	28.2	-90.00	5,915.5	-1,024.4	1,629.2	1,491.2	138.01	11.805		
13,840.8	7,662.0	7,593.0	7,593.0	111.0	28.2	-90.00	5,915.5	-1,024.4	1,628.7	1,490.1	138.66	11.746 CC, ES		
13,900.0	7,662.0	7,593.0	7,593.0	112.0	28.2	-90.00	5,915.5	-1,024.4	1,629.8	1,490.3	139.47	11.685		
14,000.0	7,662.0	7,593.0	7,593.0	113.7	28.2	-90.00	5,915.5	-1,024.4	1,636.5	1,495.9	140.54	11.644 SF		
14,100.0	7,662.0	7,593.0	7,593.0	115.4	28.2	-90.00	5,915.5	-1,024.4	1,649.2	1,508.0	141.21	11.679		
14,200.0	7,662.0	7,593.0	7,593.0	117.1	28.2	-90.00	5,915.5	-1,024.4	1,667.9	1,526.4	141.50	11.787		
14,300.0	7,662.0	7,593.0	7,593.0	118.8	28.2	-90.00	5,915.5	-1,024.4	1,692.2	1,550.8	141.42	11.966		
14,400.0	7,662.0	7,593.0	7,593.0	120.5	28.2	-90.00	5,915.5	-1,024.4	1,722.1	1,581.0	141.01	12.212		
14,500.0	7,662.0	7,593.0	7,593.0	122.3	28.2	-90.00	5,915.5	-1,024.4	1,757.1	1,616.8	140.30	12.523		
14,600.0	7,662.0	7,593.0	7,593.0	124.0	28.2	-90.00	5,915.5	-1,024.4	1,797.0	1,657.6	139.34	12.896		
14,700.0	7,662.0	7,593.0	7,593.0	125.7	28.2	-90.00	5,915.5	-1,024.4	1,841.5	1,703.3	138.17	13.327		
14,800.0	7,662.0	7,593.0	7,593.0	127.4	28.2	-90.00	5,915.5	-1,024.4	1,890.2	1,753.4	136.83	13.814		
14,900.0	7,662.0	7,593.0	7,593.0	129.1	28.2	-90.00	5,915.5	-1,024.4	1,942.9	1,807.5	135.36	14.354		
15,000.0	7,662.0	7,593.0	7,593.0	130.8	28.2	-90.00	5,915.5	-1,024.4	1,999.1	1,865.4	133.78	14.943		
15,100.0	7,662.0	7,593.0	7,593.0	132.5	28.2	-90.00	5,915.5	-1,024.4	2,058.7	1,926.6	132.15	15.579		
15,200.0	7,662.0	7,593.0	7,593.0	134.2	28.2	-90.00	5,915.5	-1,024.4	2,121.4	1,990.9	130.47	16.259		
15,300.0	7,662.0	7,593.0	7,593.0	136.0	28.2	-90.00	5,915.5	-1,024.4	2,186.8	2,058.0	128.78	16.981		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - Price 7-19 (SI) - EXISTING - NO SURVEYS (SI)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.0	7,662.0	7,593.0	7,593.0	35.4	28.2	90.00	3,156.8	733.6	2,197.2	2,138.6	58.56	37.517		
9,000.0	7,662.0	7,593.0	7,593.0	36.4	28.2	90.00	3,156.8	733.6	2,097.4	2,038.9	58.54	35.830		
9,100.0	7,662.0	7,593.0	7,593.0	37.5	28.2	90.00	3,156.8	733.6	1,997.7	1,939.2	58.51	34.142		
9,200.0	7,662.0	7,593.0	7,593.0	38.6	28.2	90.00	3,156.8	733.6	1,898.0	1,839.5	58.48	32.454		
9,300.0	7,662.0	7,593.0	7,593.0	39.8	28.2	90.00	3,156.8	733.6	1,798.4	1,739.9	58.45	30.765		
9,400.0	7,662.0	7,593.0	7,593.0	41.0	28.2	90.00	3,156.8	733.6	1,698.7	1,640.3	58.42	29.076		
9,500.0	7,662.0	7,593.0	7,593.0	42.3	28.2	90.00	3,156.8	733.6	1,599.2	1,540.8	58.39	27.387		
9,600.0	7,662.0	7,593.0	7,593.0	43.6	28.2	90.00	3,156.8	733.6	1,499.7	1,441.3	58.36	25.698		
9,700.0	7,662.0	7,593.0	7,593.0	44.9	28.2	90.00	3,156.8	733.6	1,400.2	1,341.9	58.32	24.008		
9,800.0	7,662.0	7,593.0	7,593.0	46.3	28.2	90.00	3,156.8	733.6	1,300.9	1,242.6	58.29	22.317		
9,900.0	7,662.0	7,593.0	7,593.0	47.7	28.2	90.00	3,156.8	733.6	1,201.6	1,143.4	58.26	20.625		
10,000.0	7,662.0	7,593.0	7,593.0	49.1	28.2	90.00	3,156.8	733.6	1,102.5	1,044.3	58.24	18.932		
10,100.0	7,662.0	7,593.0	7,593.0	50.5	28.2	90.00	3,156.8	733.6	1,003.6	945.4	58.22	17.237		
10,200.0	7,662.0	7,593.0	7,593.0	52.0	28.2	90.00	3,156.8	733.6	904.9	846.6	58.23	15.539		
10,300.0	7,662.0	7,593.0	7,593.0	53.4	28.2	90.00	3,156.8	733.6	806.5	748.2	58.29	13.837		
10,400.0	7,662.0	7,593.0	7,593.0	54.9	28.2	90.00	3,156.8	733.6	708.6	650.1	58.42	12.128		
10,500.0	7,662.0	7,593.0	7,593.0	56.4	28.2	90.00	3,156.8	733.6	611.3	552.6	58.71	10.412		
10,600.0	7,662.0	7,593.0	7,593.0	58.0	28.2	90.00	3,156.8	733.6	515.1	455.8	59.32	8.683		
10,700.0	7,662.0	7,593.0	7,593.0	59.5	28.2	90.00	3,156.8	733.6	420.7	360.1	60.61	6.941		
10,800.0	7,662.0	7,593.0	7,593.0	61.1	28.2	90.00	3,156.8	733.6	329.5	266.1	63.40	5.198		
10,900.0	7,662.0	7,593.0	7,593.0	62.6	28.2	90.00	3,156.8	733.6	245.4	175.8	69.61	3.526		
11,000.0	7,662.0	7,593.0	7,593.0	64.2	28.2	90.00	3,156.8	733.6	178.5	96.6	81.89	2.180		
11,091.8	7,662.0	7,593.0	7,593.0	65.7	28.2	90.00	3,156.8	733.6	153.1	60.1	93.00	1.646 CC		
11,100.0	7,662.0	7,593.0	7,593.0	65.8	28.2	90.00	3,156.8	733.6	153.3	60.0	93.35	1.642 ES, SF		
11,200.0	7,662.0	7,593.0	7,593.0	67.4	28.2	90.00	3,156.8	733.6	186.2	97.9	88.32	2.108		
11,300.0	7,662.0	7,593.0	7,593.0	69.0	28.2	90.00	3,156.8	733.6	254.5	175.7	78.85	3.228		
11,400.0	7,662.0	7,593.0	7,593.0	70.6	28.2	90.00	3,156.8	733.6	338.5	266.0	72.53	4.667		
11,500.0	7,662.0	7,593.0	7,593.0	72.2	28.2	90.00	3,156.8	733.6	429.4	360.6	68.79	6.242		
11,600.0	7,662.0	7,593.0	7,593.0	73.8	28.2	90.00	3,156.8	733.6	523.6	457.1	66.48	7.876		
11,700.0	7,662.0	7,593.0	7,593.0	75.4	28.2	90.00	3,156.8	733.6	619.7	554.7	64.98	9.535		
11,800.0	7,662.0	7,593.0	7,593.0	77.0	28.2	90.00	3,156.8	733.6	716.8	652.8	63.96	11.206		
11,900.0	7,662.0	7,593.0	7,593.0	78.7	28.2	90.00	3,156.8	733.6	814.6	751.4	63.24	12.881		
12,000.0	7,662.0	7,593.0	7,593.0	80.3	28.2	90.00	3,156.8	733.6	912.9	850.2	62.71	14.558		
12,100.0	7,662.0	7,593.0	7,593.0	81.9	28.2	90.00	3,156.8	733.6	1,011.5	949.2	62.31	16.235		
12,200.0	7,662.0	7,593.0	7,593.0	83.6	28.2	90.00	3,156.8	733.6	1,110.4	1,048.4	62.00	17.910		
12,300.0	7,662.0	7,593.0	7,593.0	85.2	28.2	90.00	3,156.8	733.6	1,209.4	1,147.7	61.76	19.584		
12,400.0	7,662.0	7,593.0	7,593.0	86.9	28.2	90.00	3,156.8	733.6	1,308.6	1,247.1	61.57	21.255		
12,500.0	7,662.0	7,593.0	7,593.0	88.5	28.2	90.00	3,156.8	733.6	1,408.0	1,346.5	61.42	22.924		
12,600.0	7,662.0	7,593.0	7,593.0	90.2	28.2	90.00	3,156.8	733.6	1,507.4	1,446.1	61.30	24.591		
12,700.0	7,662.0	7,593.0	7,593.0	91.8	28.2	90.00	3,156.8	733.6	1,606.8	1,545.6	61.20	26.255		
12,800.0	7,662.0	7,593.0	7,593.0	93.5	28.2	90.00	3,156.8	733.6	1,706.4	1,645.3	61.12	27.917		
12,900.0	7,662.0	7,593.0	7,593.0	95.2	28.2	90.00	3,156.8	733.6	1,806.0	1,744.9	61.06	29.575		
13,000.0	7,662.0	7,593.0	7,593.0	96.9	28.2	90.00	3,156.8	733.6	1,905.6	1,844.6	61.02	31.231		
13,100.0	7,662.0	7,593.0	7,593.0	98.5	28.2	90.00	3,156.8	733.6	2,005.3	1,944.3	60.98	32.884		
13,200.0	7,662.0	7,593.0	7,593.0	100.2	28.2	90.00	3,156.8	733.6	2,105.0	2,044.0	60.95	34.535		
13,300.0	7,662.0	7,593.0	7,593.0	101.9	28.2	90.00	3,156.8	733.6	2,204.7	2,143.8	60.93	36.182		



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,300.0	7,662.0	7,593.0	7,593.0	136.0	28.2	90.00	9,163.6	1,788.3	2,151.3	2,049.1	102.22	21.046		
15,400.0	7,662.0	7,593.0	7,593.0	137.7	28.2	90.00	9,163.6	1,788.3	2,067.4	1,961.7	105.77	19.546		
15,500.0	7,662.0	7,593.0	7,593.0	139.4	28.2	90.00	9,163.6	1,788.3	1,985.1	1,875.5	109.61	18.110		
15,600.0	7,662.0	7,593.0	7,593.0	141.1	28.2	90.00	9,163.6	1,788.3	1,904.4	1,790.7	113.75	16.742		
15,700.0	7,662.0	7,593.0	7,593.0	142.8	28.2	90.00	9,163.6	1,788.3	1,825.7	1,707.5	118.20	15.445		
15,800.0	7,662.0	7,593.0	7,593.0	144.5	28.2	90.00	9,163.6	1,788.3	1,749.1	1,626.1	122.99	14.222		
15,900.0	7,662.0	7,593.0	7,593.0	146.3	28.2	90.00	9,163.6	1,788.3	1,675.0	1,546.9	128.11	13.075		
16,000.0	7,662.0	7,593.0	7,593.0	148.0	28.2	90.00	9,163.6	1,788.3	1,603.7	1,470.1	133.56	12.007		
16,100.0	7,662.0	7,593.0	7,593.0	149.7	28.2	90.00	9,163.6	1,788.3	1,535.6	1,396.3	139.34	11.020		
16,200.0	7,662.0	7,593.0	7,593.0	151.4	28.2	90.00	9,163.6	1,788.3	1,471.2	1,325.8	145.42	10.117		
16,300.0	7,662.0	7,593.0	7,593.0	153.2	28.2	90.00	9,163.6	1,788.3	1,410.9	1,259.2	151.73	9.299		
16,400.0	7,662.0	7,593.0	7,593.0	154.9	28.2	90.00	9,163.6	1,788.3	1,355.3	1,197.1	158.20	8.567		
16,500.0	7,662.0	7,593.0	7,593.0	156.6	28.2	90.00	9,163.6	1,788.3	1,305.0	1,140.3	164.72	7.923		
16,600.0	7,662.0	7,593.0	7,593.0	158.4	28.2	90.00	9,163.6	1,788.3	1,260.7	1,089.6	171.12	7.367		
16,700.0	7,662.0	7,593.0	7,593.0	160.1	28.2	90.00	9,163.6	1,788.3	1,223.0	1,045.7	177.24	6.900		
16,800.0	7,662.0	7,593.0	7,593.0	161.8	28.2	90.00	9,163.6	1,788.3	1,192.4	1,009.6	182.86	6.521		
16,900.0	7,662.0	7,593.0	7,593.0	163.5	28.2	90.00	9,163.6	1,788.3	1,169.7	981.9	187.75	6.230		
17,000.0	7,662.0	7,593.0	7,593.0	165.3	28.2	90.00	9,163.6	1,788.3	1,155.2	963.5	191.70	6.026		
17,100.0	7,662.0	7,593.0	7,593.0	167.0	28.2	90.00	9,163.6	1,788.3	1,149.2	954.6	194.56	5.907		
17,118.7	7,662.0	7,593.0	7,593.0	167.3	28.2	90.00	9,163.6	1,788.3	1,149.1	954.1	194.97	5.894 CC, ES		
17,200.0	7,662.0	7,593.0	7,593.0	168.7	28.2	90.00	9,163.6	1,788.3	1,151.9	955.7	196.22	5.870 SF		
17,300.0	7,662.0	7,593.0	7,593.0	170.5	28.2	90.00	9,163.6	1,788.3	1,163.3	966.6	196.67	5.915		
17,400.0	7,662.0	7,593.0	7,593.0	172.2	28.2	90.00	9,163.6	1,788.3	1,183.0	987.0	195.96	6.037		
17,500.0	7,662.0	7,593.0	7,593.0	173.9	28.2	90.00	9,163.6	1,788.3	1,210.7	1,016.4	194.22	6.233		
17,600.0	7,662.0	7,593.0	7,593.0	175.7	28.2	90.00	9,163.6	1,788.3	1,245.8	1,054.2	191.63	6.501		
17,700.0	7,662.0	7,593.0	7,593.0	177.4	28.2	90.00	9,163.6	1,788.3	1,287.7	1,099.4	188.37	6.836		
17,800.0	7,662.0	7,593.0	7,593.0	179.1	28.2	90.00	9,163.6	1,788.3	1,335.8	1,151.2	184.62	7.235		
17,850.8	7,662.0	7,593.0	7,593.0	180.0	28.2	90.00	9,163.6	1,788.3	1,362.4	1,179.8	182.60	7.461		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - Tracy #1 (PR) - EXISTING - NO SURVEYS (PR)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,800.0	7,662.0	7,593.0	7,593.0	77.0	28.2	90.00	5,962.5	1,217.5	2,198.8	2,136.3	62.49	35.184		
11,900.0	7,662.0	7,593.0	7,593.0	78.7	28.2	90.00	5,962.5	1,217.5	2,102.9	2,039.7	63.19	33.279		
12,000.0	7,662.0	7,593.0	7,593.0	80.3	28.2	90.00	5,962.5	1,217.5	2,007.5	1,943.5	64.00	31.366		
12,100.0	7,662.0	7,593.0	7,593.0	81.9	28.2	90.00	5,962.5	1,217.5	1,912.5	1,847.6	64.94	29.449		
12,200.0	7,662.0	7,593.0	7,593.0	83.6	28.2	90.00	5,962.5	1,217.5	1,818.1	1,752.0	66.04	27.531		
12,300.0	7,662.0	7,593.0	7,593.0	85.2	28.2	90.00	5,962.5	1,217.5	1,724.2	1,656.9	67.31	25.614		
12,400.0	7,662.0	7,593.0	7,593.0	86.9	28.2	90.00	5,962.5	1,217.5	1,631.1	1,562.3	68.81	23.706		
12,500.0	7,662.0	7,593.0	7,593.0	88.5	28.2	90.00	5,962.5	1,217.5	1,538.9	1,468.4	70.55	21.813		
12,600.0	7,662.0	7,593.0	7,593.0	90.2	28.2	90.00	5,962.5	1,217.5	1,447.7	1,375.1	72.60	19.942		
12,700.0	7,662.0	7,593.0	7,593.0	91.8	28.2	90.00	5,962.5	1,217.5	1,357.8	1,282.8	74.99	18.105		
12,800.0	7,662.0	7,593.0	7,593.0	93.5	28.2	90.00	5,962.5	1,217.5	1,269.3	1,191.5	77.81	16.314		
12,900.0	7,662.0	7,593.0	7,593.0	95.2	28.2	90.00	5,962.5	1,217.5	1,182.7	1,101.6	81.11	14.582		
13,000.0	7,662.0	7,593.0	7,593.0	96.9	28.2	90.00	5,962.5	1,217.5	1,098.4	1,013.4	84.98	12.926		
13,100.0	7,662.0	7,593.0	7,593.0	98.5	28.2	90.00	5,962.5	1,217.5	1,016.9	927.4	89.49	11.363		
13,200.0	7,662.0	7,593.0	7,593.0	100.2	28.2	90.00	5,962.5	1,217.5	939.1	844.3	94.74	9.912		
13,300.0	7,662.0	7,593.0	7,593.0	101.9	28.2	90.00	5,962.5	1,217.5	865.7	765.0	100.76	8.592		
13,400.0	7,662.0	7,593.0	7,593.0	103.6	28.2	90.00	5,962.5	1,217.5	798.2	690.7	107.53	7.423		
13,500.0	7,662.0	7,593.0	7,593.0	105.3	28.2	90.00	5,962.5	1,217.5	738.1	623.2	114.90	6.424		
13,600.0	7,662.0	7,593.0	7,593.0	107.0	28.2	90.00	5,962.5	1,217.5	687.3	564.8	122.52	5.610		
13,700.0	7,662.0	7,593.0	7,593.0	108.7	28.2	90.00	5,962.5	1,217.5	648.1	518.4	129.76	4.995		
13,800.0	7,662.0	7,593.0	7,593.0	110.3	28.2	90.00	5,962.5	1,217.5	622.7	486.9	135.73	4.587		
13,900.0	7,662.0	7,593.0	7,593.0	112.0	28.2	90.00	5,962.5	1,217.5	612.7	473.1	139.58	4.389		
13,911.7	7,662.0	7,593.0	7,593.0	112.2	28.2	90.00	5,962.5	1,217.5	612.6	472.7	139.86	4.380 CC, ES, SF		
14,000.0	7,662.0	7,593.0	7,593.0	113.7	28.2	90.00	5,962.5	1,217.5	618.9	478.1	140.76	4.397		
14,100.0	7,662.0	7,593.0	7,593.0	115.4	28.2	90.00	5,962.5	1,217.5	640.8	501.5	139.34	4.599		
14,200.0	7,662.0	7,593.0	7,593.0	117.1	28.2	90.00	5,962.5	1,217.5	677.0	541.1	135.92	4.981		
14,300.0	7,662.0	7,593.0	7,593.0	118.8	28.2	90.00	5,962.5	1,217.5	725.2	594.0	131.29	5.524		
14,400.0	7,662.0	7,593.0	7,593.0	120.5	28.2	90.00	5,962.5	1,217.5	783.3	657.2	126.15	6.210		
14,500.0	7,662.0	7,593.0	7,593.0	122.3	28.2	90.00	5,962.5	1,217.5	849.3	728.3	120.99	7.019		
14,600.0	7,662.0	7,593.0	7,593.0	124.0	28.2	90.00	5,962.5	1,217.5	921.4	805.3	116.11	7.936		
14,700.0	7,662.0	7,593.0	7,593.0	125.7	28.2	90.00	5,962.5	1,217.5	998.3	886.7	111.63	8.943		
14,800.0	7,662.0	7,593.0	7,593.0	127.4	28.2	90.00	5,962.5	1,217.5	1,079.0	971.4	107.60	10.028		
14,900.0	7,662.0	7,593.0	7,593.0	129.1	28.2	90.00	5,962.5	1,217.5	1,162.7	1,058.7	104.00	11.179		
15,000.0	7,662.0	7,593.0	7,593.0	130.8	28.2	90.00	5,962.5	1,217.5	1,248.8	1,148.0	100.82	12.387		
15,100.0	7,662.0	7,593.0	7,593.0	132.5	28.2	90.00	5,962.5	1,217.5	1,336.9	1,238.9	98.00	13.642		
15,200.0	7,662.0	7,593.0	7,593.0	134.2	28.2	90.00	5,962.5	1,217.5	1,426.5	1,331.0	95.50	14.937		
15,300.0	7,662.0	7,593.0	7,593.0	136.0	28.2	90.00	5,962.5	1,217.5	1,517.4	1,424.1	93.29	16.266		
15,400.0	7,662.0	7,593.0	7,593.0	137.7	28.2	90.00	5,962.5	1,217.5	1,609.4	1,518.1	91.32	17.624		
15,500.0	7,662.0	7,593.0	7,593.0	139.4	28.2	90.00	5,962.5	1,217.5	1,702.3	1,612.7	89.56	19.007		
15,600.0	7,662.0	7,593.0	7,593.0	141.1	28.2	90.00	5,962.5	1,217.5	1,796.0	1,708.0	87.99	20.410		
15,700.0	7,662.0	7,593.0	7,593.0	142.8	28.2	90.00	5,962.5	1,217.5	1,890.3	1,803.7	86.59	21.831		
15,800.0	7,662.0	7,593.0	7,593.0	144.5	28.2	90.00	5,962.5	1,217.5	1,985.1	1,899.8	85.32	23.267		
15,900.0	7,662.0	7,593.0	7,593.0	146.3	28.2	90.00	5,962.5	1,217.5	2,080.5	1,996.3	84.18	24.715		
16,000.0	7,662.0	7,593.0	7,593.0	148.0	28.2	90.00	5,962.5	1,217.5	2,176.2	2,093.1	83.15	26.173		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-44.11	1,023.5	-992.1	1,427.0					
100.0	100.0	31.0	31.0	0.4	0.3	-44.11	1,023.5	-992.1	1,425.4	1,425.1	0.27	5,328.773		
200.0	200.0	131.0	131.0	1.0	1.1	-44.11	1,023.5	-992.1	1,425.4	1,424.4	0.99	1,441.107		
300.0	300.0	231.0	231.0	1.5	1.5	-44.11	1,023.5	-992.1	1,425.4	1,423.7	1.70	836.694		
400.0	400.0	331.0	331.0	1.9	1.9	-44.11	1,023.5	-992.1	1,425.4	1,423.0	2.42	589.085		
500.0	500.0	431.0	431.0	2.3	2.3	-44.11	1,023.5	-992.1	1,425.4	1,422.2	3.14	454.497		
600.0	600.0	531.0	531.0	2.7	2.7	-44.11	1,023.5	-992.1	1,425.4	1,421.5	3.85	369.952		
700.0	700.0	631.0	631.0	3.1	3.1	-44.11	1,023.5	-992.1	1,425.4	1,420.8	4.57	311.921		
800.0	800.0	731.0	731.0	3.5	3.5	-44.11	1,023.5	-992.1	1,425.4	1,420.1	5.29	269.625		
900.0	900.0	831.0	831.0	3.9	3.9	-44.11	1,023.5	-992.1	1,425.4	1,419.4	6.00	237.429		
1,000.0	1,000.0	931.0	931.0	4.2	4.2	-44.11	1,023.5	-992.1	1,425.4	1,418.7	6.72	212.101		
1,100.0	1,100.0	1,031.0	1,031.0	4.6	4.6	-44.11	1,023.5	-992.1	1,425.4	1,417.9	7.44	191.655		
1,200.0	1,200.0	1,131.0	1,131.0	5.0	5.0	-44.11	1,023.5	-992.1	1,425.4	1,417.2	8.15	174.805 CC, ES		
1,300.0	1,300.0	1,231.0	1,231.0	5.3	5.3	-168.06	1,023.5	-992.1	1,427.1	1,418.1	9.02	158.295		
1,400.0	1,399.8	1,330.8	1,330.8	5.6	5.7	-168.08	1,023.5	-992.1	1,432.2	1,421.9	10.25	139.697		
1,500.0	1,499.5	1,430.5	1,430.5	6.3	6.1	-168.12	1,023.5	-992.1	1,440.7	1,429.3	11.38	126.552		
1,600.0	1,598.7	1,529.7	1,529.7	7.0	6.4	-168.17	1,023.5	-992.1	1,452.7	1,440.2	12.45	116.722		
1,700.0	1,697.7	1,628.7	1,628.7	7.3	6.8	-168.27	1,023.5	-992.1	1,466.8	1,453.7	13.09	112.075		
1,800.0	1,796.6	1,727.6	1,727.6	7.6	7.1	-168.39	1,023.5	-992.1	1,481.0	1,467.2	13.75	107.719		
1,900.0	1,895.6	1,826.6	1,826.6	7.9	7.5	-168.50	1,023.5	-992.1	1,495.1	1,480.7	14.42	103.690		
2,000.0	1,994.5	1,925.5	1,925.5	8.2	7.8	-168.61	1,023.5	-992.1	1,509.3	1,494.2	15.09	99.991		
2,100.0	2,093.4	2,024.4	2,024.4	8.6	8.2	-168.71	1,023.5	-992.1	1,523.5	1,507.7	15.77	96.584		
2,200.0	2,192.4	2,123.4	2,123.4	8.9	8.6	-168.82	1,023.5	-992.1	1,537.7	1,521.2	16.46	93.440		
2,300.0	2,291.3	2,222.3	2,222.3	9.3	8.9	-168.92	1,023.5	-992.1	1,551.9	1,534.8	17.14	90.530		
2,400.0	2,390.3	2,321.3	2,321.3	9.6	9.3	-169.02	1,023.5	-992.1	1,566.1	1,548.3	17.83	87.830		
2,500.0	2,489.2	2,420.2	2,420.2	10.0	9.6	-169.12	1,023.5	-992.1	1,580.3	1,561.8	18.52	85.320		
2,600.0	2,588.2	2,519.2	2,519.2	10.3	10.0	-169.22	1,023.5	-992.1	1,594.5	1,575.3	19.22	82.981		
2,700.0	2,687.1	2,618.1	2,618.1	10.7	10.3	-169.32	1,023.5	-992.1	1,608.7	1,588.8	19.91	80.797		
2,800.0	2,786.1	2,717.1	2,717.1	11.1	10.7	-169.41	1,023.5	-992.1	1,623.0	1,602.4	20.61	78.753		
2,900.0	2,885.0	2,816.0	2,816.0	11.5	11.1	-169.51	1,023.5	-992.1	1,637.2	1,615.9	21.31	76.838		
3,000.0	2,984.0	2,915.0	2,915.0	11.9	11.4	-169.60	1,023.5	-992.1	1,651.4	1,629.4	22.01	75.039		
3,100.0	3,082.9	3,013.9	3,013.9	12.3	11.8	-169.69	1,023.5	-992.1	1,665.7	1,642.9	22.71	73.347		
3,200.0	3,181.9	3,112.9	3,112.9	12.7	12.1	-169.78	1,023.5	-992.1	1,679.9	1,656.5	23.41	71.752		
3,300.0	3,280.8	3,211.8	3,211.8	13.1	12.5	-169.86	1,023.5	-992.1	1,694.1	1,670.0	24.12	70.247		
3,400.0	3,379.8	3,310.8	3,310.8	13.5	12.8	-169.95	1,023.5	-992.1	1,708.4	1,683.6	24.82	68.825		
3,500.0	3,478.7	3,409.7	3,409.7	13.9	13.2	-170.03	1,023.5	-992.1	1,722.6	1,697.1	25.53	67.479		
3,600.0	3,577.7	3,508.7	3,508.7	14.3	13.5	-170.11	1,023.5	-992.1	1,736.9	1,710.6	26.24	66.203		
3,700.0	3,676.6	3,607.6	3,607.6	14.7	13.9	-170.20	1,023.5	-992.1	1,751.1	1,724.2	26.94	64.993		
3,800.0	3,775.6	3,706.6	3,706.6	15.1	14.3	-170.28	1,023.5	-992.1	1,765.4	1,737.7	27.65	63.842		
3,900.0	3,874.5	3,805.5	3,805.5	15.6	14.6	-170.35	1,023.5	-992.1	1,779.7	1,751.3	28.36	62.748		
4,000.0	3,973.5	3,904.5	3,904.5	16.0	15.0	-170.43	1,023.5	-992.1	1,793.9	1,764.9	29.07	61.706		
4,100.0	4,072.4	4,003.4	4,003.4	16.4	15.3	-170.51	1,023.5	-992.1	1,808.2	1,778.4	29.78	60.712		
4,200.0	4,171.4	4,102.4	4,102.4	16.8	15.7	-170.58	1,023.5	-992.1	1,822.5	1,792.0	30.49	59.764		
4,300.0	4,270.3	4,201.3	4,201.3	17.2	16.0	-170.66	1,023.5	-992.1	1,836.7	1,805.5	31.21	58.858		
4,400.0	4,369.3	4,300.3	4,300.3	17.7	16.4	-170.73	1,023.5	-992.1	1,851.0	1,819.1	31.92	57.991		
4,500.0	4,468.2	4,399.2	4,399.2	18.1	16.7	-170.80	1,023.5	-992.1	1,865.3	1,832.7	32.63	57.162		
4,600.0	4,567.2	4,498.2	4,498.2	18.5	17.1	-170.87	1,023.5	-992.1	1,879.6	1,846.2	33.35	56.367		
4,700.0	4,666.1	4,597.1	4,597.1	18.9	17.5	-170.94	1,023.5	-992.1	1,893.9	1,859.8	34.06	55.605		
4,800.0	4,765.1	4,696.1	4,696.1	19.4	17.8	-171.01	1,023.5	-992.1	1,908.2	1,873.4	34.77	54.874		
4,900.0	4,864.0	4,795.0	4,795.0	19.8	18.2	-171.08	1,023.5	-992.1	1,922.5	1,887.0	35.49	54.171		
5,000.0	4,962.9	4,893.9	4,893.9	20.2	18.5	-171.14	1,023.5	-992.1	1,936.8	1,900.6	36.20	53.496		
5,100.0	5,061.9	4,992.9	4,992.9	20.6	18.9	-171.21	1,023.5	-992.1	1,951.1	1,914.1	36.92	52.847		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S19-T1S-R65W - UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,160.8	5,091.8	5,091.8	21.1	19.2	-171.27	1,023.5	-992.1	1,965.4	1,927.7	37.63	52.222		
5,300.0	5,259.8	5,190.8	5,190.8	21.5	19.6	-171.34	1,023.5	-992.1	1,979.7	1,941.3	38.35	51.620		
5,400.0	5,358.7	5,289.7	5,289.7	21.9	19.9	-171.40	1,023.5	-992.1	1,994.0	1,954.9	39.07	51.039		
5,500.0	5,457.7	5,388.7	5,388.7	22.3	20.3	-171.46	1,023.5	-992.1	2,008.3	1,968.5	39.78	50.480		
5,600.0	5,556.6	5,487.6	5,487.6	22.8	20.7	-171.52	1,023.5	-992.1	2,022.6	1,982.1	40.50	49.939		
5,700.0	5,655.6	5,586.6	5,586.6	23.2	21.0	-171.58	1,023.5	-992.1	2,036.9	1,995.7	41.22	49.418		
5,800.0	5,754.5	5,685.5	5,685.5	23.6	21.4	-171.64	1,023.5	-992.1	2,051.2	2,009.3	41.94	48.914		
5,900.0	5,853.5	5,784.5	5,784.5	24.1	21.7	-171.70	1,023.5	-992.1	2,065.5	2,022.9	42.65	48.426		
6,000.0	5,952.4	5,883.4	5,883.4	24.5	22.1	-171.76	1,023.5	-992.1	2,079.8	2,036.5	43.37	47.955		
6,100.0	6,051.4	5,982.4	5,982.4	24.9	22.4	-171.81	1,023.5	-992.1	2,094.2	2,050.1	44.09	47.499		
6,200.0	6,150.3	6,081.3	6,081.3	25.4	22.8	-171.87	1,023.5	-992.1	2,108.5	2,063.7	44.81	47.057		
6,300.0	6,249.3	6,180.3	6,180.3	25.8	23.1	-171.92	1,023.5	-992.1	2,122.8	2,077.3	45.53	46.629		
6,400.0	6,348.2	6,279.2	6,279.2	26.2	23.5	-171.98	1,023.5	-992.1	2,137.1	2,090.9	46.24	46.214		
6,500.0	6,447.2	6,378.2	6,378.2	26.6	23.9	-172.03	1,023.5	-992.1	2,151.5	2,104.5	46.96	45.812		
6,600.0	6,546.1	6,477.1	6,477.1	27.1	24.2	-172.09	1,023.5	-992.1	2,165.8	2,118.1	47.68	45.421		
6,700.0	6,645.1	6,576.1	6,576.1	27.5	24.6	-172.14	1,023.5	-992.1	2,180.1	2,131.7	48.40	45.043		
6,800.0	6,744.0	6,675.0	6,675.0	27.9	24.9	-172.19	1,023.5	-992.1	2,194.4	2,145.3	49.12	44.675		
6,900.0	6,843.0	6,774.0	6,774.0	28.4	25.3	-172.24	1,023.5	-992.1	2,208.8	2,158.9	49.84	44.317		
7,000.0	6,941.9	6,872.9	6,872.9	28.8	25.6	-172.29	1,023.5	-992.1	2,223.1	2,172.6	50.56	43.970		
7,500.0	7,417.3	7,348.3	7,348.3	30.9	27.3	-62.88	1,023.5	-992.1	2,201.7	2,147.5	54.19	40.630		
7,600.0	7,493.6	7,424.6	7,424.6	31.1	27.6	-64.95	1,023.5	-992.1	2,166.6	2,111.9	54.73	39.590		
7,700.0	7,557.7	7,488.7	7,488.7	31.2	27.8	-68.99	1,023.5	-992.1	2,124.1	2,068.8	55.21	38.471		
7,800.0	7,607.6	7,538.6	7,538.6	31.3	28.0	-74.38	1,023.5	-992.1	2,076.1	2,020.5	55.65	37.304		
7,900.0	7,642.0	7,573.0	7,573.0	31.2	28.1	-80.54	1,023.5	-992.1	2,025.0	1,969.0	56.07	36.117		
8,000.0	7,659.6	7,590.6	7,590.6	31.1	28.2	-86.83	1,023.5	-992.1	1,973.0	1,916.5	56.47	34.941		
8,100.0	7,662.0	7,593.0	7,593.0	31.0	28.2	-90.00	1,023.5	-992.1	1,922.2	1,865.3	56.87	33.802		
8,200.0	7,662.0	7,593.0	7,593.0	31.0	28.2	-90.00	1,023.5	-992.1	1,875.1	1,817.7	57.34	32.702		
8,300.0	7,662.0	7,593.0	7,593.0	31.0	28.2	-90.00	1,023.5	-992.1	1,832.2	1,774.3	57.90	31.646		
8,400.0	7,662.0	7,593.0	7,593.0	31.3	28.2	-90.00	1,023.5	-992.1	1,793.9	1,735.4	58.54	30.642		
8,500.0	7,662.0	7,593.0	7,593.0	31.9	28.2	-90.00	1,023.5	-992.1	1,760.4	1,701.2	59.27	29.702		
8,600.0	7,662.0	7,593.0	7,593.0	32.7	28.2	-90.00	1,023.5	-992.1	1,732.1	1,672.0	60.07	28.836		
8,700.0	7,662.0	7,593.0	7,593.0	33.5	28.2	-90.00	1,023.5	-992.1	1,709.2	1,648.2	60.93	28.053		
8,800.0	7,662.0	7,593.0	7,593.0	34.4	28.2	-90.00	1,023.5	-992.1	1,691.8	1,630.0	61.83	27.362		
8,900.0	7,662.0	7,593.0	7,593.0	35.4	28.2	-90.00	1,023.5	-992.1	1,680.3	1,617.5	62.76	26.771		
9,000.0	7,662.0	7,593.0	7,593.0	36.4	28.2	-90.00	1,023.5	-992.1	1,674.7	1,610.9	63.71	26.287		
9,044.7	7,662.0	7,593.0	7,593.0	36.9	28.2	-90.00	1,023.5	-992.1	1,674.1	1,609.9	64.13	26.103		
9,100.0	7,662.0	7,593.0	7,593.0	37.5	28.2	-90.00	1,023.5	-992.1	1,675.0	1,610.3	64.64	25.913		
9,200.0	7,662.0	7,593.0	7,593.0	38.6	28.2	-90.00	1,023.5	-992.1	1,681.3	1,615.7	65.54	25.652		
9,300.0	7,662.0	7,593.0	7,593.0	39.8	28.2	-90.00	1,023.5	-992.1	1,693.4	1,627.0	66.40	25.503		
9,400.0	7,662.0	7,593.0	7,593.0	41.0	28.2	-90.00	1,023.5	-992.1	1,711.4	1,644.2	67.20	25.466 SF		
9,500.0	7,662.0	7,593.0	7,593.0	42.3	28.2	-90.00	1,023.5	-992.1	1,734.9	1,666.9	67.93	25.538		
9,600.0	7,662.0	7,593.0	7,593.0	43.6	28.2	-90.00	1,023.5	-992.1	1,763.8	1,695.2	68.59	25.714		
9,700.0	7,662.0	7,593.0	7,593.0	44.9	28.2	-90.00	1,023.5	-992.1	1,797.8	1,728.6	69.17	25.989		
9,800.0	7,662.0	7,593.0	7,593.0	46.3	28.2	-90.00	1,023.5	-992.1	1,836.6	1,766.9	69.68	26.357		
9,900.0	7,662.0	7,593.0	7,593.0	47.7	28.2	-90.00	1,023.5	-992.1	1,879.9	1,809.8	70.11	26.813		
10,000.0	7,662.0	7,593.0	7,593.0	49.1	28.2	-90.00	1,023.5	-992.1	1,927.5	1,857.0	70.47	27.351		
10,100.0	7,662.0	7,593.0	7,593.0	50.5	28.2	-90.00	1,023.5	-992.1	1,978.9	1,908.2	70.77	27.963		
10,200.0	7,662.0	7,593.0	7,593.0	52.0	28.2	-90.00	1,023.5	-992.1	2,034.0	1,963.0	71.01	28.645		
10,300.0	7,662.0	7,593.0	7,593.0	53.4	28.2	-90.00	1,023.5	-992.1	2,092.4	2,021.2	71.20	29.390		
10,400.0	7,662.0	7,593.0	7,593.0	54.9	28.2	-90.00	1,023.5	-992.1	2,153.9	2,082.6	71.34	30.193		
10,500.0	7,662.0	7,593.0	7,593.0	56.4	28.2	-90.00	1,023.5	-992.1	2,218.2	2,146.8	71.44	31.050		

Reference Depths are relative to 13' KB @ 5155.0usft	Coordinates are relative to: CONNER 19-18-3CDH
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000	Grid Convergence at Surface is: 0.51°



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-3CDH
<b>Project:</b>	ADAMS COUNTY, CO	<b>TVD Reference:</b>	13' KB @ 5155.0usft
<b>Reference Site:</b>	S19-T1S-R65W	<b>MD Reference:</b>	13' KB @ 5155.0usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	CONNER 19-18-3CDH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	EDM 5000.15 Single User Db
<b>Reference Design:</b>	PLAN #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to 13' KB @ 5155.0usft

Offset Depths are relative to Offset Datum

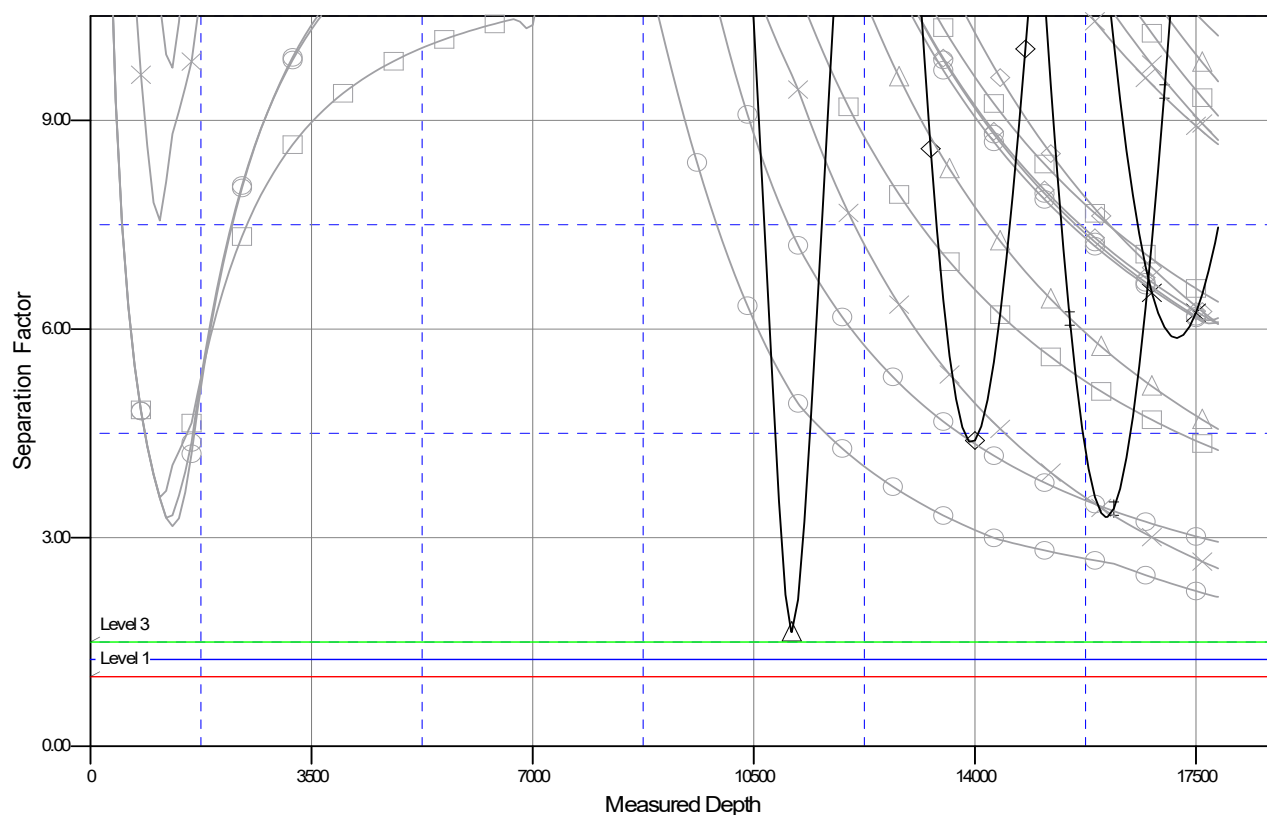
Central Meridian is -105.500000

Coordinates are relative to: CONNER 19-18-3CDH

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°

## Separation Factor Plot



### LEGEND

CONNER 19-18-1CDH.OHPLAN#1V0  
 CONNER 19-18-1NBH.OHPLAN#1V0  
 CONNER 19-18-1NCH.OHPLAN#1V0  
 CONNER 19-18-1NXH.OHPLAN#1V0  
 CONNER 19-18-2CDH.OHPLAN#1V0  
 CONNER 19-18-2NBH.OHPLAN#1V0  
 CONNER 19-18-2NCH.OHPLAN#1V0  
 CONNER 19-18-2NXH.OHPLAN#1V0

CONNER 19-18-3NBH.OHPLAN#1V0  
 CONNER 19-18-3NCH.OHPLAN#1V0  
 CONNER 19-18-3NXH.OHPLAN#1V0  
 CONNER 19-18-4CDH.OHPLAN#1V0  
 CONNER 19-18-4NBH.OHPLAN#1V0  
 CONNER 19-18-4NCH.OHPLAN#1V0  
 CONNER 19-18-4NXH.OHPLAN#1V0  
 Gal#1(PR).EXISTING.NOSURVEYS (PR)V0

Gal#2(PR).EXISTING.NOSURVEYS (PR)V0  
 Minn#1(PR).EXISTING.NOSURVEYS (P&A)V0  
 Price#1-19(S).EXISTING.NOSURVEYS (S)V0  
 Putnam#1-18(PR).EXISTING.NOSURVEYS (PR)V0  
 Tracy#1(PR).EXISTING.NOSURVEYS (PR)V0  
 UPRR-Ledley 1(P&A).EXISTING.NOSURVEYS (P&A)V0