



# PetroShare Corp

Project: ADAMS COUNTY, CO  
Site: S19-T1S-R65W  
Well: CONNER 19-18-1NXH  
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: 7.51°  
Magnetic Field  
Strength: 51671.1nT  
Dip Angle: 66.20°  
Date: 12/31/2020  
Model: HDGM2020\_FILE

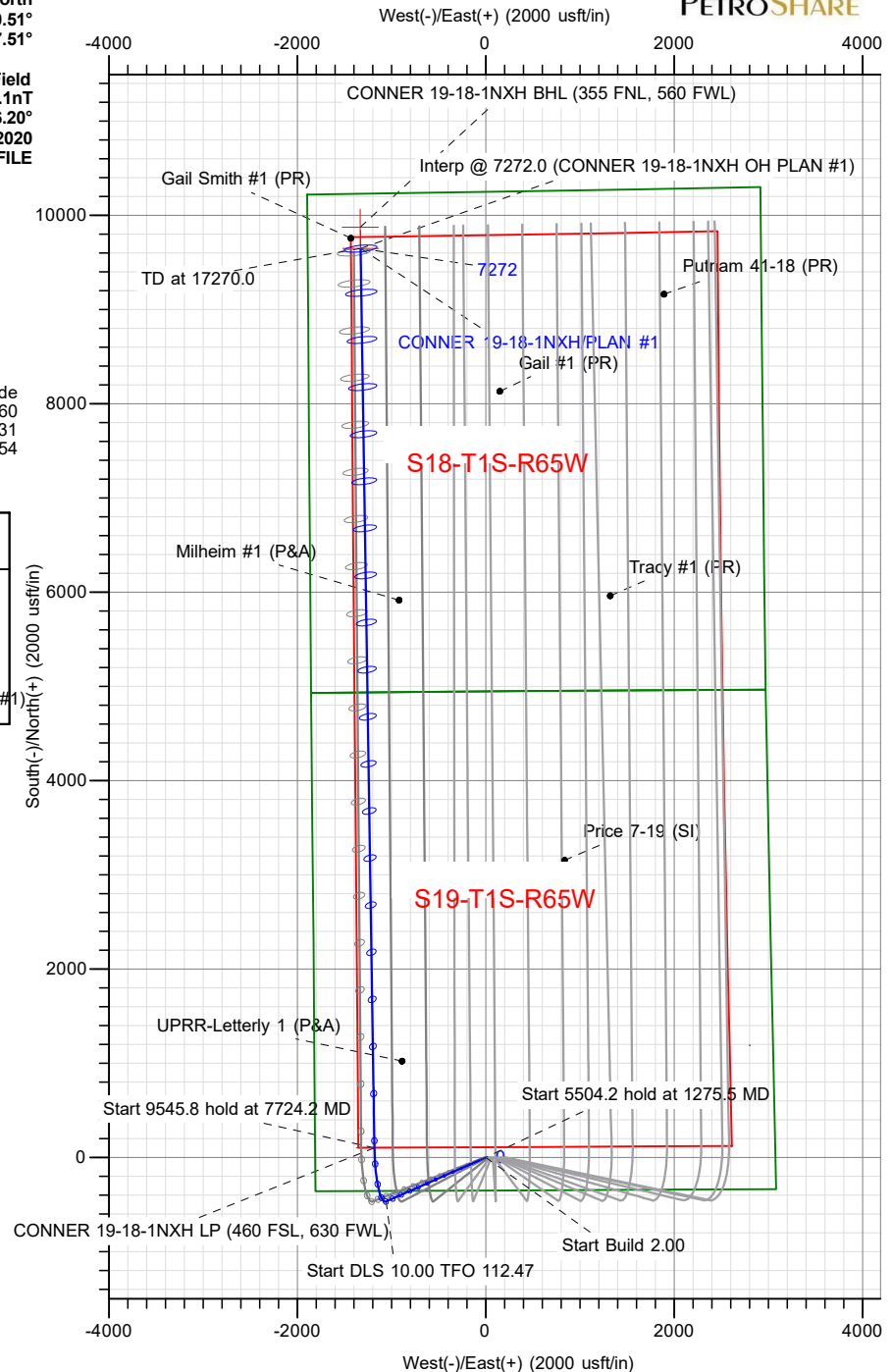
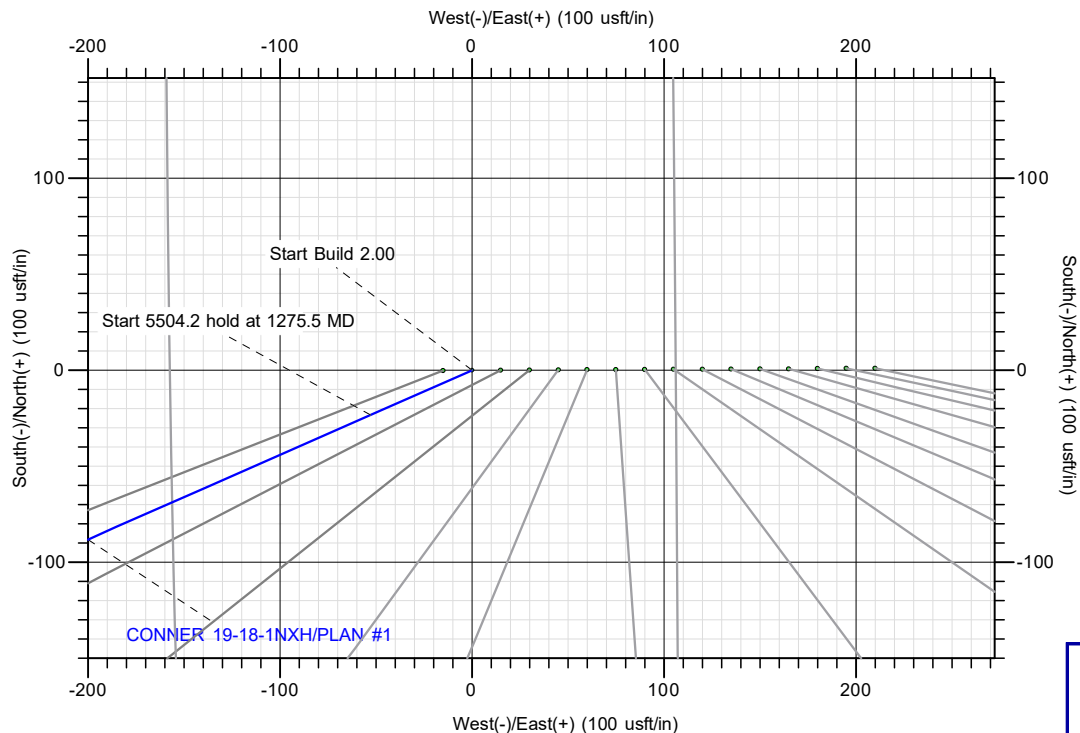


## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CONNER 19-18-1NXH BHL (355 FNL, 560 FWL)	7272.0	9874.4	-1331.2	1233428.85	3220693.69	39.971456	-104.712560
CONNER 19-18-1NXH LP (460 FSL, 630 FWL)	7272.0	103.5	-1180.4	1223657.98	3220844.46	39.944630	-104.712331
Interp @ 7272.0 (CONNER 19-18-1NXH OH PLAN #1)	7272.0	9648.2	-1327.7	1233202.63	3220697.18	39.970835	-104.712554

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSECT	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.0	
3	1275.5	11.51	246.23	1271.6	-23.2	-52.7	2.00	246.23	-15.8	
4	6779.7	11.51	246.23	6665.2	-465.9	-1057.8	0.00	0.00	-317.3	
5	7724.2	90.00	359.12	7272.0	103.5	-1180.4	10.00	112.47	263.5	CONNER 19-18-1NXH LP (460 FSL, 630 FWL)
6	17270.0	90.00	359.12	7272.0	9648.2	-1327.7	0.00	0.00	9739.1	Interp @ 7272.0 (CONNER 19-18-1NXH OH PLAN #1)



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

Plan: PLAN #1 (CONNER 19-18-1NXH/OH)  
S19-T1S-R65W  
Created By: Lance Roybal  
Date: 15/20, March 12 2021  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_



# PetroShare Corp

Project: ADAMS COUNTY, CO  
Site: S19-T1S-R65W  
Well: CONNER 19-18-1NXH  
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Design: PLAN #1



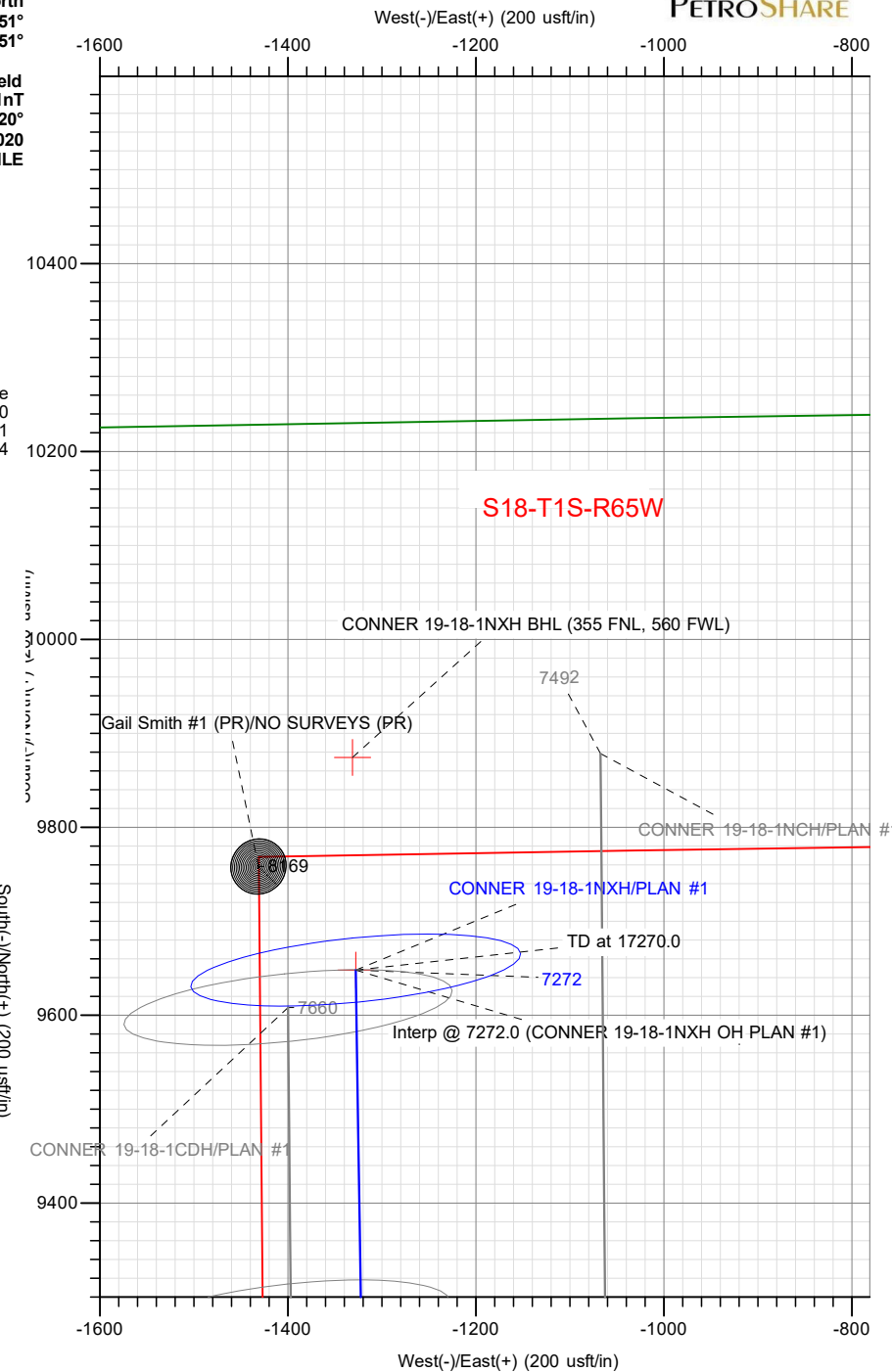
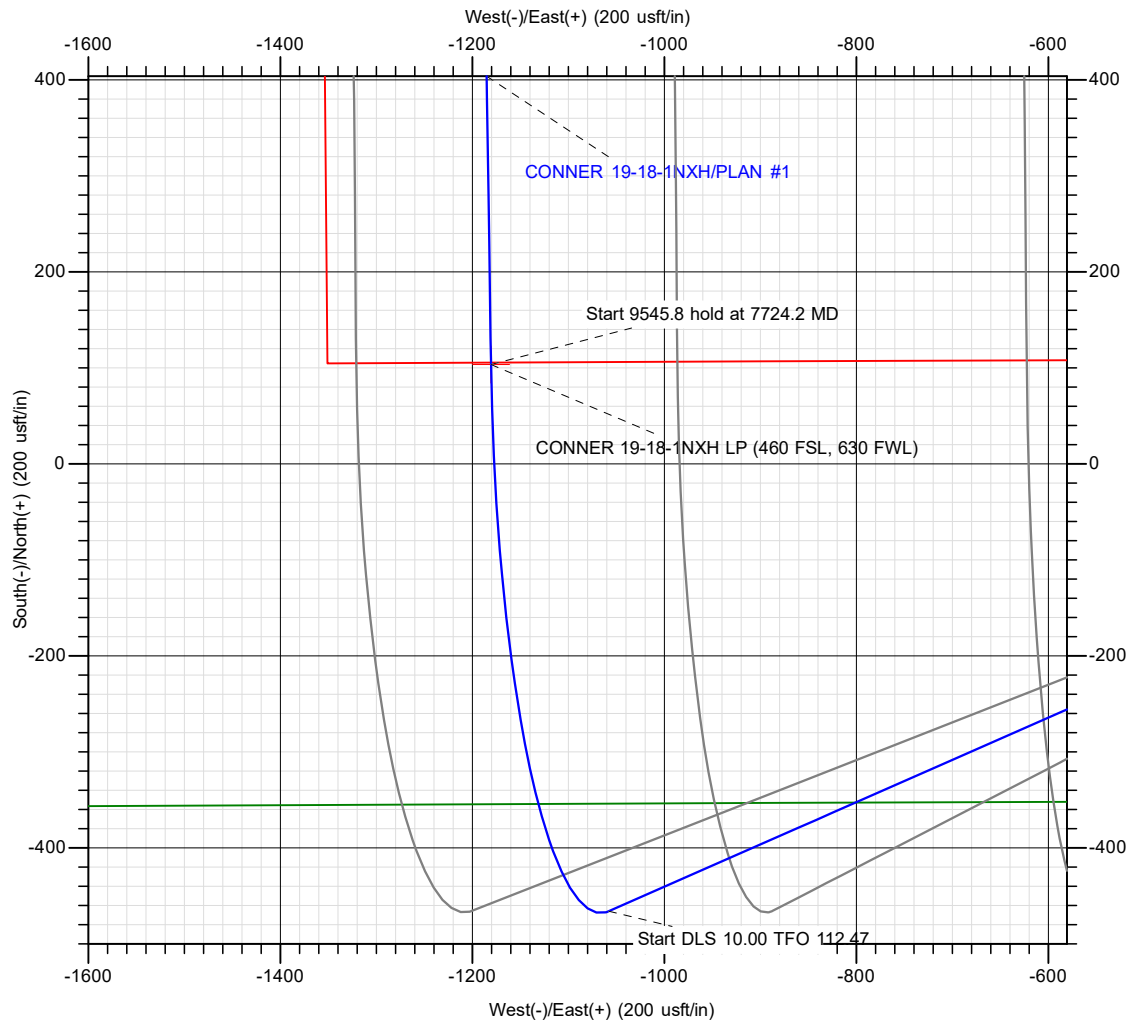
Azimuths to Grid North  
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Magnetic North: 7.51°  
  
Magnetic Field  
Strength: 51671.1nT  
Dip Angle: 66.20°  
Date: 12/31/2020  
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PROJECT DETAILS: ADAMS COUNTY, CO  
Geodetic System: US State Plane 1983  
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## DESIGN TARGET DETAILS

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

Plan: PLAN #1 (CONNER 19-18-1NXH/OH)  
S19-T1S-R65W  
Created By: Lance Roybal  
Date: 15:22, March 12 2021  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_



## **PetroShare Corp**

**ADAMS COUNTY, CO**

**S19-T1S-R65W**

**CONNER 19-18-1NXH**

**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 19-18-1NXH
<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 19-18-1NXH	<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 19-18-1NXH					
Well Position	+N/-S	0.1 usft	Northing:	1,223,554.45 usft	Latitude:	39.944317
	+E/-W	15.0 usft	Easting:	3,222,024.90 usft	Longitude:	-104.708125
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	352.16

<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	17,270.0	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	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,275.5	11.51	246.23	1,271.6	-23.2	-52.7	2.00	2.00	0.00	246.23	
6,779.7	11.51	246.23	6,665.2	-465.9	-1,057.8	0.00	0.00	0.00	0.00	
7,724.2	90.00	359.12	7,272.0	103.5	-1,180.4	10.00	8.31	11.95	112.47	CONNER 19-18-1NXH
17,270.0	90.00	359.12	7,272.0	9,648.2	-1,327.7	0.00	0.00	0.00	0.00	Interp @ 7272.0 (CO)

<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	2.00	246.23	800.0	-0.7	-1.6	-0.5	2.00	2.00	0.00
900.0	4.00	246.23	899.8	-2.8	-6.4	-1.9	2.00	2.00	0.00
1,000.0	6.00	246.23	999.5	-6.3	-14.4	-4.3	2.00	2.00	0.00
1,100.0	8.00	246.23	1,098.7	-11.2	-25.5	-7.7	2.00	2.00	0.00
1,200.0	10.00	246.23	1,197.5	-17.5	-39.8	-11.9	2.00	2.00	0.00
1,275.5	11.51	246.23	1,271.6	-23.2	-52.7	-15.8	2.00	2.00	0.00
1,300.0	11.51	246.23	1,295.6	-25.2	-57.2	-17.2	0.00	0.00	0.00
1,400.0	11.51	246.23	1,393.6	-33.2	-75.5	-22.6	0.00	0.00	0.00
1,500.0	11.51	246.23	1,491.6	-41.3	-93.7	-28.1	0.00	0.00	0.00
1,600.0	11.51	246.23	1,589.6	-49.3	-112.0	-33.6	0.00	0.00	0.00
1,700.0	11.51	246.23	1,687.6	-57.4	-130.2	-39.1	0.00	0.00	0.00
1,800.0	11.51	246.23	1,785.6	-65.4	-148.5	-44.5	0.00	0.00	0.00
1,900.0	11.51	246.23	1,883.6	-73.4	-166.8	-50.0	0.00	0.00	0.00
2,000.0	11.51	246.23	1,981.6	-81.5	-185.0	-55.5	0.00	0.00	0.00
2,100.0	11.51	246.23	2,079.6	-89.5	-203.3	-61.0	0.00	0.00	0.00
2,200.0	11.51	246.23	2,177.5	-97.6	-221.5	-66.5	0.00	0.00	0.00
2,300.0	11.51	246.23	2,275.5	-105.6	-239.8	-71.9	0.00	0.00	0.00
2,400.0	11.51	246.23	2,373.5	-113.7	-258.1	-77.4	0.00	0.00	0.00
2,500.0	11.51	246.23	2,471.5	-121.7	-276.3	-82.9	0.00	0.00	0.00
2,600.0	11.51	246.23	2,569.5	-129.7	-294.6	-88.4	0.00	0.00	0.00
2,700.0	11.51	246.23	2,667.5	-137.8	-312.8	-93.8	0.00	0.00	0.00
2,800.0	11.51	246.23	2,765.5	-145.8	-331.1	-99.3	0.00	0.00	0.00
2,900.0	11.51	246.23	2,863.5	-153.9	-349.4	-104.8	0.00	0.00	0.00
3,000.0	11.51	246.23	2,961.5	-161.9	-367.6	-110.3	0.00	0.00	0.00
3,100.0	11.51	246.23	3,059.5	-169.9	-385.9	-115.8	0.00	0.00	0.00
3,200.0	11.51	246.23	3,157.4	-178.0	-404.1	-121.2	0.00	0.00	0.00
3,300.0	11.51	246.23	3,255.4	-186.0	-422.4	-126.7	0.00	0.00	0.00
3,400.0	11.51	246.23	3,353.4	-194.1	-440.7	-132.2	0.00	0.00	0.00
3,500.0	11.51	246.23	3,451.4	-202.1	-458.9	-137.7	0.00	0.00	0.00
3,600.0	11.51	246.23	3,549.4	-210.2	-477.2	-143.1	0.00	0.00	0.00
3,700.0	11.51	246.23	3,647.4	-218.2	-495.4	-148.6	0.00	0.00	0.00
3,800.0	11.51	246.23	3,745.4	-226.2	-513.7	-154.1	0.00	0.00	0.00
3,900.0	11.51	246.23	3,843.4	-234.3	-532.0	-159.6	0.00	0.00	0.00
4,000.0	11.51	246.23	3,941.4	-242.3	-550.2	-165.1	0.00	0.00	0.00
4,100.0	11.51	246.23	4,039.3	-250.4	-568.5	-170.5	0.00	0.00	0.00
4,200.0	11.51	246.23	4,137.3	-258.4	-586.7	-176.0	0.00	0.00	0.00
4,300.0	11.51	246.23	4,235.3	-266.5	-605.0	-181.5	0.00	0.00	0.00
4,400.0	11.51	246.23	4,333.3	-274.5	-623.3	-187.0	0.00	0.00	0.00
4,500.0	11.51	246.23	4,431.3	-282.5	-641.5	-192.4	0.00	0.00	0.00
4,600.0	11.51	246.23	4,529.3	-290.6	-659.8	-197.9	0.00	0.00	0.00
4,700.0	11.51	246.23	4,627.3	-298.6	-678.0	-203.4	0.00	0.00	0.00
4,800.0	11.51	246.23	4,725.3	-306.7	-696.3	-208.9	0.00	0.00	0.00
4,900.0	11.51	246.23	4,823.3	-314.7	-714.6	-214.4	0.00	0.00	0.00
5,000.0	11.51	246.23	4,921.2	-322.7	-732.8	-219.8	0.00	0.00	0.00
5,100.0	11.51	246.23	5,019.2	-330.8	-751.1	-225.3	0.00	0.00	0.00
5,200.0	11.51	246.23	5,117.2	-338.8	-769.3	-230.8	0.00	0.00	0.00

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5,300.0	11.51	246.23	5,215.2	-346.9	-787.6	-236.3	0.00	0.00	0.00
5,400.0	11.51	246.23	5,313.2	-354.9	-805.9	-241.7	0.00	0.00	0.00
5,500.0	11.51	246.23	5,411.2	-363.0	-824.1	-247.2	0.00	0.00	0.00
5,600.0	11.51	246.23	5,509.2	-371.0	-842.4	-252.7	0.00	0.00	0.00
5,700.0	11.51	246.23	5,607.2	-379.0	-860.6	-258.2	0.00	0.00	0.00
5,800.0	11.51	246.23	5,705.2	-387.1	-878.9	-263.7	0.00	0.00	0.00
5,900.0	11.51	246.23	5,803.2	-395.1	-897.2	-269.1	0.00	0.00	0.00
6,000.0	11.51	246.23	5,901.1	-403.2	-915.4	-274.6	0.00	0.00	0.00
6,100.0	11.51	246.23	5,999.1	-411.2	-933.7	-280.1	0.00	0.00	0.00
6,200.0	11.51	246.23	6,097.1	-419.3	-951.9	-285.6	0.00	0.00	0.00
6,300.0	11.51	246.23	6,195.1	-427.3	-970.2	-291.0	0.00	0.00	0.00
6,400.0	11.51	246.23	6,293.1	-435.3	-988.5	-296.5	0.00	0.00	0.00
6,500.0	11.51	246.23	6,391.1	-443.4	-1,006.7	-302.0	0.00	0.00	0.00
6,600.0	11.51	246.23	6,489.1	-451.4	-1,025.0	-307.5	0.00	0.00	0.00
6,700.0	11.51	246.23	6,587.1	-459.5	-1,043.2	-313.0	0.00	0.00	0.00
6,779.7	11.51	246.23	6,665.2	-465.9	-1,057.8	-317.3	0.00	0.00	0.00
6,800.0	10.89	256.20	6,685.1	-467.1	-1,061.5	-318.1	10.00	-3.03	49.13
6,900.0	13.03	304.93	6,783.1	-462.9	-1,080.0	-311.4	10.00	2.13	48.73
7,000.0	20.45	328.92	6,878.9	-441.5	-1,098.3	-287.6	10.00	7.43	23.99
7,100.0	29.40	339.67	6,969.6	-403.4	-1,115.9	-247.5	10.00	8.95	10.76
7,200.0	38.84	345.64	7,052.3	-349.9	-1,132.2	-192.2	10.00	9.43	5.97
7,300.0	48.47	349.55	7,124.6	-282.5	-1,146.8	-123.5	10.00	9.63	3.91
7,400.0	58.20	352.44	7,184.2	-203.4	-1,159.2	-43.4	10.00	9.73	2.88
7,500.0	67.98	354.77	7,229.4	-114.9	-1,169.1	45.6	10.00	9.78	2.33
7,600.0	77.80	356.79	7,258.8	-19.7	-1,176.1	140.9	10.00	9.81	2.02
7,700.0	87.62	358.67	7,271.5	79.3	-1,180.0	239.5	10.00	9.83	1.88
7,724.2	90.00	359.12	7,272.0	103.5	-1,180.4	263.5	10.00	9.83	1.84
CONNER 19-18-1NXH LP (460 FSL, 630 FWL)									
7,800.0	90.00	359.12	7,272.0	179.3	-1,181.6	338.7	0.00	0.00	0.00
7,900.0	90.00	359.12	7,272.0	279.3	-1,183.1	438.0	0.00	0.00	0.00
8,000.0	90.00	359.12	7,272.0	379.3	-1,184.7	537.3	0.00	0.00	0.00
8,100.0	90.00	359.12	7,272.0	479.3	-1,186.2	636.5	0.00	0.00	0.00
8,200.0	90.00	359.12	7,272.0	579.3	-1,187.8	735.8	0.00	0.00	0.00
8,300.0	90.00	359.12	7,272.0	679.3	-1,189.3	835.0	0.00	0.00	0.00
8,400.0	90.00	359.12	7,272.0	779.2	-1,190.9	934.3	0.00	0.00	0.00
8,500.0	90.00	359.12	7,272.0	879.2	-1,192.4	1,033.6	0.00	0.00	0.00
8,600.0	90.00	359.12	7,272.0	979.2	-1,193.9	1,132.8	0.00	0.00	0.00
8,700.0	90.00	359.12	7,272.0	1,079.2	-1,195.5	1,232.1	0.00	0.00	0.00
8,800.0	90.00	359.12	7,272.0	1,179.2	-1,197.0	1,331.4	0.00	0.00	0.00
8,900.0	90.00	359.12	7,272.0	1,279.2	-1,198.6	1,430.6	0.00	0.00	0.00
9,000.0	90.00	359.12	7,272.0	1,379.2	-1,200.1	1,529.9	0.00	0.00	0.00
9,100.0	90.00	359.12	7,272.0	1,479.2	-1,201.7	1,629.2	0.00	0.00	0.00
9,200.0	90.00	359.12	7,272.0	1,579.1	-1,203.2	1,728.4	0.00	0.00	0.00
9,300.0	90.00	359.12	7,272.0	1,679.1	-1,204.7	1,827.7	0.00	0.00	0.00
9,400.0	90.00	359.12	7,272.0	1,779.1	-1,206.3	1,927.0	0.00	0.00	0.00
9,500.0	90.00	359.12	7,272.0	1,879.1	-1,207.8	2,026.2	0.00	0.00	0.00
9,600.0	90.00	359.12	7,272.0	1,979.1	-1,209.4	2,125.5	0.00	0.00	0.00
9,700.0	90.00	359.12	7,272.0	2,079.1	-1,210.9	2,224.8	0.00	0.00	0.00
9,800.0	90.00	359.12	7,272.0	2,179.1	-1,212.5	2,324.0	0.00	0.00	0.00
9,900.0	90.00	359.12	7,272.0	2,279.1	-1,214.0	2,423.3	0.00	0.00	0.00
10,000.0	90.00	359.12	7,272.0	2,379.0	-1,215.5	2,522.5	0.00	0.00	0.00
10,100.0	90.00	359.12	7,272.0	2,479.0	-1,217.1	2,621.8	0.00	0.00	0.00
10,200.0	90.00	359.12	7,272.0	2,579.0	-1,218.6	2,721.1	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	359.12	7,272.0	2,679.0	-1,220.2	2,820.3	0.00	0.00	0.00	
10,400.0	90.00	359.12	7,272.0	2,779.0	-1,221.7	2,919.6	0.00	0.00	0.00	
10,500.0	90.00	359.12	7,272.0	2,879.0	-1,223.3	3,018.9	0.00	0.00	0.00	
10,600.0	90.00	359.12	7,272.0	2,979.0	-1,224.8	3,118.1	0.00	0.00	0.00	
10,700.0	90.00	359.12	7,272.0	3,079.0	-1,226.3	3,217.4	0.00	0.00	0.00	
10,800.0	90.00	359.12	7,272.0	3,179.0	-1,227.9	3,316.7	0.00	0.00	0.00	
10,900.0	90.00	359.12	7,272.0	3,278.9	-1,229.4	3,415.9	0.00	0.00	0.00	
11,000.0	90.00	359.12	7,272.0	3,378.9	-1,231.0	3,515.2	0.00	0.00	0.00	
11,100.0	90.00	359.12	7,272.0	3,478.9	-1,232.5	3,614.5	0.00	0.00	0.00	
11,200.0	90.00	359.12	7,272.0	3,578.9	-1,234.1	3,713.7	0.00	0.00	0.00	
11,300.0	90.00	359.12	7,272.0	3,678.9	-1,235.6	3,813.0	0.00	0.00	0.00	
11,400.0	90.00	359.12	7,272.0	3,778.9	-1,237.1	3,912.3	0.00	0.00	0.00	
11,500.0	90.00	359.12	7,272.0	3,878.9	-1,238.7	4,011.5	0.00	0.00	0.00	
11,600.0	90.00	359.12	7,272.0	3,978.9	-1,240.2	4,110.8	0.00	0.00	0.00	
11,700.0	90.00	359.12	7,272.0	4,078.8	-1,241.8	4,210.1	0.00	0.00	0.00	
11,800.0	90.00	359.12	7,272.0	4,178.8	-1,243.3	4,309.3	0.00	0.00	0.00	
11,900.0	90.00	359.12	7,272.0	4,278.8	-1,244.9	4,408.6	0.00	0.00	0.00	
12,000.0	90.00	359.12	7,272.0	4,378.8	-1,246.4	4,507.8	0.00	0.00	0.00	
12,100.0	90.00	359.12	7,272.0	4,478.8	-1,247.9	4,607.1	0.00	0.00	0.00	
12,200.0	90.00	359.12	7,272.0	4,578.8	-1,249.5	4,706.4	0.00	0.00	0.00	
12,300.0	90.00	359.12	7,272.0	4,678.8	-1,251.0	4,805.6	0.00	0.00	0.00	
12,400.0	90.00	359.12	7,272.0	4,778.8	-1,252.6	4,904.9	0.00	0.00	0.00	
12,500.0	90.00	359.12	7,272.0	4,878.8	-1,254.1	5,004.2	0.00	0.00	0.00	
12,600.0	90.00	359.12	7,272.0	4,978.7	-1,255.7	5,103.4	0.00	0.00	0.00	
12,700.0	90.00	359.12	7,272.0	5,078.7	-1,257.2	5,202.7	0.00	0.00	0.00	
12,800.0	90.00	359.12	7,272.0	5,178.7	-1,258.7	5,302.0	0.00	0.00	0.00	
12,900.0	90.00	359.12	7,272.0	5,278.7	-1,260.3	5,401.2	0.00	0.00	0.00	
13,000.0	90.00	359.12	7,272.0	5,378.7	-1,261.8	5,500.5	0.00	0.00	0.00	
13,100.0	90.00	359.12	7,272.0	5,478.7	-1,263.4	5,599.8	0.00	0.00	0.00	
13,200.0	90.00	359.12	7,272.0	5,578.7	-1,264.9	5,699.0	0.00	0.00	0.00	
13,300.0	90.00	359.12	7,272.0	5,678.7	-1,266.5	5,798.3	0.00	0.00	0.00	
13,400.0	90.00	359.12	7,272.0	5,778.6	-1,268.0	5,897.6	0.00	0.00	0.00	
13,500.0	90.00	359.12	7,272.0	5,878.6	-1,269.5	5,996.8	0.00	0.00	0.00	
13,600.0	90.00	359.12	7,272.0	5,978.6	-1,271.1	6,096.1	0.00	0.00	0.00	
13,700.0	90.00	359.12	7,272.0	6,078.6	-1,272.6	6,195.4	0.00	0.00	0.00	
13,800.0	90.00	359.12	7,272.0	6,178.6	-1,274.2	6,294.6	0.00	0.00	0.00	
13,900.0	90.00	359.12	7,272.0	6,278.6	-1,275.7	6,393.9	0.00	0.00	0.00	
14,000.0	90.00	359.12	7,272.0	6,378.6	-1,277.3	6,493.1	0.00	0.00	0.00	
14,100.0	90.00	359.12	7,272.0	6,478.6	-1,278.8	6,592.4	0.00	0.00	0.00	
14,200.0	90.00	359.12	7,272.0	6,578.5	-1,280.3	6,691.7	0.00	0.00	0.00	
14,300.0	90.00	359.12	7,272.0	6,678.5	-1,281.9	6,790.9	0.00	0.00	0.00	
14,400.0	90.00	359.12	7,272.0	6,778.5	-1,283.4	6,890.2	0.00	0.00	0.00	
14,500.0	90.00	359.12	7,272.0	6,878.5	-1,285.0	6,989.5	0.00	0.00	0.00	
14,600.0	90.00	359.12	7,272.0	6,978.5	-1,286.5	7,088.7	0.00	0.00	0.00	
14,700.0	90.00	359.12	7,272.0	7,078.5	-1,288.1	7,188.0	0.00	0.00	0.00	
14,800.0	90.00	359.12	7,272.0	7,178.5	-1,289.6	7,287.3	0.00	0.00	0.00	
14,900.0	90.00	359.12	7,272.0	7,278.5	-1,291.1	7,386.5	0.00	0.00	0.00	
15,000.0	90.00	359.12	7,272.0	7,378.5	-1,292.7	7,485.8	0.00	0.00	0.00	
15,100.0	90.00	359.12	7,272.0	7,478.4	-1,294.2	7,585.1	0.00	0.00	0.00	
15,200.0	90.00	359.12	7,272.0	7,578.4	-1,295.8	7,684.3	0.00	0.00	0.00	
15,300.0	90.00	359.12	7,272.0	7,678.4	-1,297.3	7,783.6	0.00	0.00	0.00	
15,400.0	90.00	359.12	7,272.0	7,778.4	-1,298.9	7,882.9	0.00	0.00	0.00	
15,500.0	90.00	359.12	7,272.0	7,878.4	-1,300.4	7,982.1	0.00	0.00	0.00	
15,600.0	90.00	359.12	7,272.0	7,978.4	-1,301.9	8,081.4	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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)
15,700.0	90.00	359.12	7,272.0	8,078.4	-1,303.5	8,180.7	0.00	0.00	0.00
15,800.0	90.00	359.12	7,272.0	8,178.4	-1,305.0	8,279.9	0.00	0.00	0.00
15,900.0	90.00	359.12	7,272.0	8,278.3	-1,306.6	8,379.2	0.00	0.00	0.00
16,000.0	90.00	359.12	7,272.0	8,378.3	-1,308.1	8,478.4	0.00	0.00	0.00
16,100.0	90.00	359.12	7,272.0	8,478.3	-1,309.7	8,577.7	0.00	0.00	0.00
16,200.0	90.00	359.12	7,272.0	8,578.3	-1,311.2	8,677.0	0.00	0.00	0.00
16,300.0	90.00	359.12	7,272.0	8,678.3	-1,312.7	8,776.2	0.00	0.00	0.00
16,400.0	90.00	359.12	7,272.0	8,778.3	-1,314.3	8,875.5	0.00	0.00	0.00
16,500.0	90.00	359.12	7,272.0	8,878.3	-1,315.8	8,974.8	0.00	0.00	0.00
16,600.0	90.00	359.12	7,272.0	8,978.3	-1,317.4	9,074.0	0.00	0.00	0.00
16,700.0	90.00	359.12	7,272.0	9,078.3	-1,318.9	9,173.3	0.00	0.00	0.00
16,800.0	90.00	359.12	7,272.0	9,178.2	-1,320.5	9,272.6	0.00	0.00	0.00
16,900.0	90.00	359.12	7,272.0	9,278.2	-1,322.0	9,371.8	0.00	0.00	0.00
17,000.0	90.00	359.12	7,272.0	9,378.2	-1,323.5	9,471.1	0.00	0.00	0.00
17,100.0	90.00	359.12	7,272.0	9,478.2	-1,325.1	9,570.4	0.00	0.00	0.00
17,200.0	90.00	359.12	7,272.0	9,578.2	-1,326.6	9,669.6	0.00	0.00	0.00
17,270.0	90.00	359.12	7,272.0	9,648.2	-1,327.7	9,739.1	0.00	0.00	0.00
Interp @ 7272.0 (CONNER 19-18-1NXH OH PLAN #1) - CONNER 19-18-1NXH BHL (355 FNL, 560 FWL)									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CONNER 19-18-1NXH L - plan hits target center - Point	0.00	0.00	7,272.0	103.5	-1,180.4	1,223,657.98	3,220,844.46	39.944630	-104.712332
Interp @ 7272.0 (CONN - plan hits target center - Point	0.00	0.00	7,272.0	9,648.2	-1,327.7	1,233,202.63	3,220,697.19	39.970835	-104.712555
CONNER 19-18-1NXH E - plan misses target center by 226.2usft at 17270.0usft MD (7272.0 TVD, 9648.2 N, -1327.7 E) - Point	0.00	0.00	7,272.0	9,874.4	-1,331.2	1,233,428.85	3,220,693.69	39.971456	-104.712560





## **PetroShare Corp**

**ADAMS COUNTY, CO**

**S19-T1S-R65W**

**CONNER 19-18-1NXH**

**OH**

**PLAN #1**

## **Anticollision Report**

**12 March, 2021**



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	17,270.0	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	15.0	10.3	3.165	CC
CONNER 19-18-1CDH - OH - PLAN #1	6,900.0	6,894.1	68.7	9.7	1.165	Level 2, ES, SF
CONNER 19-18-1NBH - OH - PLAN #1	700.0	700.0	30.0	27.3	10.939	CC, ES
CONNER 19-18-1NBH - OH - PLAN #1	17,270.0	17,198.5	626.2	450.7	3.568	SF
CONNER 19-18-1NCH - OH - PLAN #1	700.0	700.0	15.0	12.3	5.468	CC, ES
CONNER 19-18-1NCH - OH - PLAN #1	17,270.0	17,458.6	342.4	195.5	2.331	SF
CONNER 19-18-2CDH - OH - PLAN #1	700.0	700.0	45.0	42.3	16.412	CC, ES
CONNER 19-18-2CDH - OH - PLAN #1	17,270.0	17,558.3	1,062.6	895.2	6.348	SF
CONNER 19-18-2NBH - OH - PLAN #1	700.0	700.0	90.0	87.2	32.810	CC, ES
CONNER 19-18-2NBH - OH - PLAN #1	17,270.0	17,311.2	1,723.0	1,547.5	9.821	SF
CONNER 19-18-2NCH - OH - PLAN #1	700.0	700.0	75.0	72.2	27.342	CC, ES
CONNER 19-18-2NCH - OH - PLAN #1	17,270.0	17,367.4	1,368.8	1,194.1	7.837	SF
CONNER 19-18-2NXH - OH - PLAN #1	700.0	700.0	60.0	57.2	21.870	CC, ES
CONNER 19-18-2NXH - OH - PLAN #1	17,270.0	17,150.7	1,090.3	914.9	6.216	SF
CONNER 19-18-3CDH - OH - PLAN #1	700.0	700.0	105.0	102.2	38.279	CC, ES
CONNER 19-18-3CDH - OH - PLAN #1	17,270.0	17,601.1	2,118.1	1,944.2	12.178	SF
CONNER 19-18-3NBH - OH - PLAN #1	700.0	700.0	150.0	147.3	54.705	CC, ES
CONNER 19-18-3NBH - OH - PLAN #1	1,100.0	1,087.8	181.9	176.1	31.367	SF
CONNER 19-18-3NCH - OH - PLAN #1	700.0	700.0	135.0	132.2	49.226	CC, ES
CONNER 19-18-3NCH - OH - PLAN #1	1,100.0	1,094.0	162.4	156.6	27.890	SF
CONNER 19-18-3NXH - OH - PLAN #1	700.0	700.0	120.0	117.3	43.764	CC, ES
CONNER 19-18-3NXH - OH - PLAN #1	1,200.0	1,193.1	162.2	155.7	24.877	SF
CONNER 19-18-4CDH - OH - PLAN #1	700.0	700.0	165.0	162.2	60.170	CC, ES
CONNER 19-18-4CDH - OH - PLAN #1	1,100.0	1,080.1	204.7	198.9	35.466	SF
CONNER 19-18-4NBH - OH - PLAN #1	500.0	500.0	210.0	208.0	105.038	CC, ES
CONNER 19-18-4NBH - OH - PLAN #1	1,100.0	1,047.8	291.7	286.0	51.471	SF
CONNER 19-18-4NCH - OH - PLAN #1	600.0	600.0	195.0	192.6	82.163	CC, ES
CONNER 19-18-4NCH - OH - PLAN #1	1,100.0	1,060.2	259.7	254.0	45.521	SF
CONNER 19-18-4NXH - OH - PLAN #1	700.0	700.0	180.0	177.2	65.624	CC, ES
CONNER 19-18-4NXH - OH - PLAN #1	1,100.0	1,070.9	230.7	225.0	40.184	SF
Gail #1 (PR) - EXISTING - NO SURVEYS (PR)	15,732.4	7,203.0	1,454.3	1,279.1	8.301	CC, ES
Gail #1 (PR) - EXISTING - NO SURVEYS (PR)	15,800.0	7,203.0	1,455.9	1,280.3	8.295	SF
Gail Smith #1 (PR) - EXISTING - NO SURVEYS (PR)	17,270.0	7,203.0	151.2	14.9	1.109	Level 2, CC, ES, SF
Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)	13,532.1	7,203.0	350.7	213.4	2.555	CC, ES, SF
Price 7-19 (SI) - EXISTING - NO SURVEYS (SI)	10,746.6	7,203.0	2,065.9	1,975.0	22.720	CC, ES
Price 7-19 (SI) - EXISTING - NO SURVEYS (SI)	11,000.0	7,203.0	2,081.4	1,988.5	22.403	SF
Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)						Out of range

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 19-18-1NXH
<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 19-18-1NXH	<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
Offset Well - Wellbore - Design						
S19-T1S-R65W						
Tracy #1 (PR) - EXISTING - NO SURVEYS (PR)						Out of range
UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&	8,600.0	7,203.0	310.1	247.9	4.988	SF
UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&	8,640.1	7,203.0	307.5	245.9	4.991	CC, ES

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 Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.39	-0.1	-15.0	15.0					
100.0	100.0	100.0	100.0	0.4	0.4	-90.39	-0.1	-15.0	15.0	14.5	0.55	27.109		
200.0	200.0	200.0	200.0	1.0	1.0	-90.39	-0.1	-15.0	15.0	13.4	1.60	9.409		
300.0	300.0	300.0	300.0	1.5	1.5	-90.39	-0.1	-15.0	15.0	12.6	2.45	6.131		
400.0	400.0	400.0	400.0	1.9	1.9	-90.39	-0.1	-15.0	15.0	11.8	3.24	4.639		
500.0	500.0	500.0	500.0	2.3	2.3	-90.39	-0.1	-15.0	15.0	11.0	4.00	3.756		
600.0	600.0	600.0	600.0	2.7	2.7	-90.39	-0.1	-15.0	15.0	10.3	4.75	3.165	CC	
700.0	700.0	699.5	699.5	3.1	3.0	-92.52	-0.7	-16.6	16.7	11.1	5.60	2.973		
800.0	800.0	798.8	798.6	3.4	4.0	18.21	-2.6	-21.4	20.0	12.8	7.16	2.790		
900.0	899.8	898.0	897.5	4.3	4.8	16.40	-5.8	-29.4	23.4	14.3	9.08	2.573		
1,000.0	999.5	997.1	995.8	5.2	5.6	15.34	-10.1	-40.6	26.8	16.1	10.68	2.506		
1,100.0	1,098.7	1,096.1	1,093.6	5.9	6.3	14.79	-15.8	-54.9	30.2	18.1	12.09	2.496		
1,200.0	1,197.5	1,195.1	1,190.8	6.6	6.8	14.61	-22.6	-72.3	33.5	20.3	13.23	2.536		
1,300.0	1,295.6	1,295.1	1,288.8	7.0	7.0	15.38	-30.0	-91.1	35.0	21.1	13.88	2.520		
1,400.0	1,393.6	1,395.1	1,386.7	7.2	7.3	16.55	-37.4	-110.0	35.5	21.1	14.40	2.462		
1,500.0	1,491.6	1,495.1	1,484.6	7.5	7.5	17.68	-44.8	-128.8	35.9	21.0	14.97	2.401		
1,600.0	1,589.6	1,595.1	1,582.5	7.8	7.8	18.78	-52.2	-147.6	36.4	20.9	15.56	2.342		
1,700.0	1,687.6	1,695.1	1,680.5	8.1	8.1	19.85	-59.6	-166.4	37.0	20.8	16.18	2.285		
1,800.0	1,785.6	1,795.1	1,778.4	8.4	8.5	20.89	-67.0	-185.3	37.5	20.7	16.82	2.229		
1,900.0	1,883.6	1,895.1	1,876.3	8.7	8.8	21.91	-74.4	-204.1	38.0	20.6	17.48	2.177		
2,000.0	1,981.6	1,995.1	1,974.3	9.0	9.1	22.89	-81.8	-222.9	38.6	20.4	18.15	2.126		
2,100.0	2,079.6	2,095.1	2,072.2	9.4	9.5	23.85	-89.2	-241.7	39.2	20.3	18.85	2.078		
2,200.0	2,177.5	2,195.1	2,170.1	9.7	9.8	24.77	-96.6	-260.6	39.7	20.2	19.56	2.032		
2,300.0	2,275.5	2,295.1	2,268.1	10.1	10.2	25.67	-104.0	-279.4	40.3	20.0	20.28	1.988		
2,400.0	2,373.5	2,395.0	2,366.0	10.5	10.6	26.55	-111.4	-298.2	40.9	19.9	21.02	1.947		
2,500.0	2,471.5	2,495.0	2,463.9	10.9	11.1	27.40	-118.7	-317.0	41.5	19.8	21.77	1.908		
2,600.0	2,569.5	2,595.0	2,561.8	11.3	11.5	28.22	-126.1	-335.9	42.1	19.6	22.53	1.870		
2,700.0	2,667.5	2,695.0	2,659.8	11.7	11.9	29.03	-133.5	-354.7	42.8	19.5	23.31	1.835		
2,800.0	2,765.5	2,795.0	2,757.7	12.2	12.4	29.80	-140.9	-373.5	43.4	19.3	24.09	1.801		
2,900.0	2,863.5	2,895.0	2,855.6	12.6	12.9	30.56	-148.3	-392.3	44.0	19.1	24.89	1.769		
3,000.0	2,961.5	2,995.0	2,953.6	13.1	13.3	31.29	-155.7	-411.2	44.7	19.0	25.70	1.739		
3,100.0	3,059.5	3,095.0	3,051.5	13.6	13.8	32.01	-163.1	-430.0	45.3	18.8	26.51	1.710		
3,200.0	3,157.4	3,195.0	3,149.4	14.0	14.3	32.70	-170.5	-448.8	46.0	18.7	27.33	1.683		
3,300.0	3,255.4	3,295.0	3,247.3	14.5	14.8	33.37	-177.9	-467.6	46.7	18.5	28.17	1.657		
3,400.0	3,353.4	3,395.0	3,345.3	15.0	15.3	34.03	-185.3	-486.5	47.3	18.3	29.00	1.632		
3,500.0	3,451.4	3,495.0	3,443.2	15.5	15.7	34.66	-192.7	-505.3	48.0	18.2	29.85	1.608		
3,600.0	3,549.4	3,595.0	3,541.1	16.0	16.2	35.28	-200.1	-524.1	48.7	18.0	30.70	1.586		
3,700.0	3,647.4	3,695.0	3,639.1	16.4	16.7	35.88	-207.5	-542.9	49.4	17.8	31.56	1.565		
3,800.0	3,745.4	3,795.0	3,737.0	16.9	17.2	36.46	-214.9	-561.7	50.1	17.6	32.43	1.544		
3,900.0	3,843.4	3,895.0	3,834.9	17.4	17.7	37.03	-222.3	-580.6	50.8	17.5	33.30	1.525		

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 19-18-1NXH
<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 19-18-1NXH	<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		
4,000.0	3,941.4	3,995.0	3,932.9	17.9	18.2	37.58	-229.7	-599.4	51.5	17.3	34.18	1.506		
4,100.0	4,039.3	4,095.0	4,030.8	18.4	18.7	38.12	-237.1	-618.2	52.2	17.1	35.06	1.489	Level 3	
4,200.0	4,137.3	4,195.0	4,128.7	18.9	19.2	38.64	-244.5	-637.0	52.9	17.0	35.95	1.472	Level 3	
4,300.0	4,235.3	4,295.0	4,226.6	19.4	19.7	39.15	-251.9	-655.9	53.6	16.8	36.84	1.456	Level 3	
4,400.0	4,333.3	4,395.0	4,324.6	19.9	20.2	39.65	-259.3	-674.7	54.3	16.6	37.73	1.440	Level 3	
4,500.0	4,431.3	4,495.0	4,422.5	20.4	20.7	40.13	-266.7	-693.5	55.1	16.4	38.63	1.426	Level 3	
4,600.0	4,529.3	4,595.0	4,520.4	20.9	21.2	40.60	-274.0	-712.3	55.8	16.3	39.53	1.412	Level 3	
4,700.0	4,627.3	4,695.0	4,618.4	21.4	21.7	41.06	-281.4	-731.2	56.5	16.1	40.44	1.398	Level 3	
4,800.0	4,725.3	4,795.0	4,716.3	21.8	22.2	41.50	-288.8	-750.0	57.3	15.9	41.35	1.385	Level 3	
4,900.0	4,823.3	4,895.0	4,814.2	22.3	22.7	41.94	-296.2	-768.8	58.0	15.8	42.26	1.373	Level 3	
5,000.0	4,921.2	4,995.0	4,912.2	22.8	23.2	42.36	-303.6	-787.6	58.8	15.6	43.18	1.361	Level 3	
5,100.0	5,019.2	5,094.9	5,010.1	23.3	23.7	42.77	-311.0	-806.5	59.5	15.4	44.10	1.349	Level 3	
5,200.0	5,117.2	5,194.9	5,108.0	23.8	24.2	43.18	-318.4	-825.3	60.3	15.2	45.02	1.338	Level 3	
5,300.0	5,215.2	5,294.9	5,205.9	24.3	24.7	43.57	-325.8	-844.1	61.0	15.1	45.95	1.328	Level 3	
5,400.0	5,313.2	5,394.9	5,303.9	24.8	25.2	43.95	-333.2	-862.9	61.8	14.9	46.87	1.318	Level 3	
5,500.0	5,411.2	5,494.9	5,401.8	25.3	25.7	44.33	-340.6	-881.8	62.5	14.7	47.80	1.308	Level 3	
5,600.0	5,509.2	5,594.9	5,499.7	25.8	26.2	44.69	-348.0	-900.6	63.3	14.6	48.74	1.299	Level 3	
5,700.0	5,607.2	5,694.9	5,597.7	26.3	26.7	45.05	-355.4	-919.4	64.1	14.4	49.67	1.290	Level 3	
5,800.0	5,705.2	5,794.9	5,695.6	26.8	27.2	45.39	-362.8	-938.2	64.8	14.2	50.61	1.281	Level 3	
5,900.0	5,803.2	5,894.9	5,793.5	27.3	27.7	45.73	-370.2	-957.1	65.6	14.0	51.54	1.272	Level 3	
6,000.0	5,901.1	5,994.9	5,891.5	27.8	28.2	46.07	-377.6	-975.9	66.4	13.9	52.48	1.264	Level 3	
6,100.0	5,999.1	6,094.9	5,989.4	28.3	28.7	46.39	-385.0	-994.7	67.1	13.7	53.43	1.257	Level 3	
6,200.0	6,097.1	6,194.9	6,087.3	28.8	29.2	46.71	-392.4	-1,013.5	67.9	13.5	54.37	1.249	Level 2	
6,300.0	6,195.1	6,294.9	6,185.2	29.3	29.7	47.02	-399.8	-1,032.3	68.7	13.4	55.31	1.242	Level 2	
6,400.0	6,293.1	6,394.9	6,283.2	29.8	30.2	47.32	-407.2	-1,051.2	69.5	13.2	56.26	1.235	Level 2	
6,500.0	6,391.1	6,494.9	6,381.1	30.3	30.7	47.61	-414.6	-1,070.0	70.2	13.0	57.21	1.228	Level 2	
6,600.0	6,489.1	6,594.9	6,479.0	30.8	31.2	47.90	-422.0	-1,088.8	71.0	12.9	58.16	1.221	Level 2	
6,700.0	6,587.1	6,694.9	6,577.0	31.3	31.7	48.19	-429.3	-1,107.6	71.8	12.7	59.11	1.215	Level 2	
6,800.0	6,685.1	6,794.9	6,674.9	31.8	32.2	48.43	-436.7	-1,126.5	72.4	12.4	60.01	1.207	Level 2	
6,900.0	6,783.1	6,894.1	6,772.0	32.3	32.7	-18.56	-444.1	-1,145.1	68.7	9.7	59.02	1.165	Level 2, ES, SF	
6,971.6	6,852.2	6,963.2	6,839.7	32.7	33.0	-52.62	-449.2	-1,158.1	66.2	9.9	56.35	1.175	Level 2	
7,000.0	6,878.9	6,989.8	6,865.7	32.8	33.2	-65.01	-451.2	-1,163.2	66.9	11.7	55.23	1.212	Level 2	
7,100.0	6,969.6	7,079.0	6,953.2	33.2	33.6	-102.12	-457.8	-1,180.0	85.6	30.0	55.62	1.540		
7,200.0	7,052.3	7,159.1	7,031.6	33.5	34.0	-124.31	-463.7	-1,195.0	131.6	71.7	59.99	2.195		
7,300.0	7,124.6	7,248.1	7,118.9	33.7	34.5	-137.98	-466.8	-1,211.8	195.5	132.5	63.01	3.102		
7,400.0	7,184.2	7,363.6	7,231.0	33.8	35.1	-147.03	-451.0	-1,233.6	262.7	199.3	63.47	4.139		
7,500.0	7,229.4	7,514.8	7,368.9	33.9	35.7	-153.19	-396.4	-1,260.6	327.3	267.5	59.82	5.472		
7,600.0	7,258.8	7,729.9	7,530.7	33.9	36.2	-157.55	-260.4	-1,293.0	381.5	332.5	48.99	7.787		
7,700.0	7,271.5	8,034.1	7,652.7	33.9	36.3	-159.91	13.2	-1,318.8	411.1	378.2	32.89	12.498		
7,800.0	7,272.0	8,199.5	7,660.0	33.9	36.4	-160.17	178.2	-1,321.5	412.5	380.6	31.86	12.945		
7,900.0	7,272.0	8,299.5	7,660.0	34.0	36.5	-160.26	278.1	-1,322.4	412.2	379.9	32.31	12.758		
8,000.0	7,272.0	8,399.5	7,660.0	34.3	36.6	-160.35	378.1	-1,323.2	412.0	379.1	32.87	12.533		
8,100.0	7,272.0	8,499.5	7,660.0	34.6	36.9	-160.45	478.1	-1,324.0	411.7	378.2	33.53	12.279		
8,200.0	7,272.0	8,599.5	7,660.0	35.0	37.2	-160.54	578.1	-1,324.8	411.5	377.2	34.28	12.003		
8,300.0	7,272.0	8,699.5	7,660.0	35.5	37.7	-160.64	678.1	-1,325.7	411.3	376.1	35.12	11.711		
8,400.0	7,272.0	8,799.5	7,660.0	36.2	38.2	-160.73	778.1	-1,326.5	411.0	375.0	36.03	11.408		
8,500.0	7,272.0	8,899.5	7,660.0	36.9	38.9	-160.82	878.1	-1,327.3	410.8	373.8	37.02	11.098		
8,600.0	7,272.0	8,999.5	7,660.0	37.7	39.6	-160.92	978.1	-1,328.2	410.6	372.5	38.07	10.786		
8,700.0	7,272.0	9,099.5	7,660.0	38.7	40.5	-161.01	1,078.1	-1,329.0	410.3	371.2	39.17	10.474		
8,800.0	7,272.0	9,199.5	7,660.0	39.7	41.4	-161.11	1,178.1	-1,329.8	410.1	369.8	40.34	10.167		
8,900.0	7,272.0	9,299.5	7,660.0	40.7	42.4	-161.20	1,278.1	-1,330.6	409.9	368.3	41.55	9.865		
9,000.0	7,272.0	9,399.5	7,660.0	41.8	43.4	-161.30	1,378.1	-1,331.5	409.6	366.8	42.80	9.571		

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 19-18-1NXH
<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 19-18-1NXH	<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		
9,100.0	7,272.0	9,499.5	7,660.0	43.0	44.5	-161.39	1,478.1	-1,332.3	409.4	365.3	44.10	9.285		
9,200.0	7,272.0	9,599.5	7,660.0	44.2	45.6	-161.49	1,578.1	-1,333.1	409.2	363.8	45.42	9.008		
9,300.0	7,272.0	9,699.5	7,660.0	45.4	46.8	-161.58	1,678.1	-1,334.0	409.0	362.2	46.78	8.741		
9,400.0	7,272.0	9,799.5	7,660.0	46.7	48.0	-161.68	1,778.1	-1,334.8	408.7	360.6	48.17	8.485		
9,500.0	7,272.0	9,899.5	7,660.0	48.0	49.3	-161.77	1,878.0	-1,335.6	408.5	358.9	49.59	8.238		
9,600.0	7,272.0	9,999.5	7,660.0	49.3	50.6	-161.87	1,978.0	-1,336.4	408.3	357.3	51.02	8.002		
9,700.0	7,272.0	10,099.5	7,660.0	50.7	51.9	-161.96	2,078.0	-1,337.3	408.1	355.6	52.48	7.775		
9,800.0	7,272.0	10,199.5	7,660.0	52.1	53.3	-162.06	2,178.0	-1,338.1	407.8	353.9	53.96	7.559		
9,900.0	7,272.0	10,299.4	7,660.0	53.5	54.6	-162.15	2,278.0	-1,338.9	407.6	352.2	55.45	7.351		
10,000.0	7,272.0	10,399.4	7,660.0	54.9	56.0	-162.25	2,378.0	-1,339.8	407.4	350.4	56.95	7.153		
10,100.0	7,272.0	10,499.4	7,660.0	56.4	57.4	-162.34	2,478.0	-1,340.6	407.2	348.7	58.47	6.963		
10,200.0	7,272.0	10,599.4	7,660.0	57.9	58.9	-162.44	2,578.0	-1,341.4	407.0	347.0	60.00	6.782		
10,300.0	7,272.0	10,699.4	7,660.0	59.3	60.3	-162.54	2,678.0	-1,342.2	406.8	345.2	61.55	6.609		
10,400.0	7,272.0	10,799.4	7,660.0	60.8	61.8	-162.63	2,778.0	-1,343.1	406.5	343.4	63.10	6.443		
10,500.0	7,272.0	10,899.4	7,660.0	62.4	63.3	-162.73	2,878.0	-1,343.9	406.3	341.7	64.65	6.285		
10,600.0	7,272.0	10,999.4	7,660.0	63.9	64.8	-162.82	2,978.0	-1,344.7	406.1	339.9	66.22	6.133		
10,700.0	7,272.0	11,099.4	7,660.0	65.4	66.3	-162.92	3,078.0	-1,345.6	405.9	338.1	67.79	5.987		
10,800.0	7,272.0	11,199.4	7,660.0	67.0	67.8	-163.02	3,178.0	-1,346.4	405.7	336.3	69.37	5.848		
10,900.0	7,272.0	11,299.4	7,660.0	68.5	69.3	-163.11	3,278.0	-1,347.2	405.5	334.5	70.95	5.715		
11,000.0	7,272.0	11,399.4	7,660.0	70.1	70.9	-163.21	3,378.0	-1,348.0	405.3	332.7	72.54	5.587		
11,100.0	7,272.0	11,499.4	7,660.0	71.7	72.4	-163.31	3,478.0	-1,348.9	405.1	330.9	74.13	5.465		
11,200.0	7,272.0	11,599.4	7,660.0	73.3	74.0	-163.40	3,577.9	-1,349.7	404.9	329.1	75.72	5.347		
11,300.0	7,272.0	11,699.4	7,660.0	74.9	75.6	-163.50	3,677.9	-1,350.5	404.7	327.3	77.31	5.234		
11,400.0	7,272.0	11,799.4	7,660.0	76.5	77.2	-163.60	3,777.9	-1,351.4	404.5	325.6	78.91	5.126		
11,500.0	7,272.0	11,899.4	7,660.0	78.1	78.8	-163.69	3,877.9	-1,352.2	404.3	323.8	80.51	5.021		
11,600.0	7,272.0	11,999.4	7,660.0	79.7	80.4	-163.79	3,977.9	-1,353.0	404.1	321.9	82.11	4.921		
11,700.0	7,272.0	12,099.4	7,660.0	81.3	82.0	-163.89	4,077.9	-1,353.8	403.9	320.1	83.71	4.824		
11,800.0	7,272.0	12,199.4	7,660.0	83.0	83.6	-163.99	4,177.9	-1,354.7	403.7	318.4	85.31	4.732		
11,900.0	7,272.0	12,299.4	7,660.0	84.6	85.2	-164.08	4,277.9	-1,355.5	403.5	316.6	86.92	4.642		
12,000.0	7,272.0	12,399.4	7,660.0	86.3	86.8	-164.18	4,377.9	-1,356.3	403.3	314.8	88.52	4.556		
12,100.0	7,272.0	12,499.4	7,660.0	87.9	88.4	-164.28	4,477.9	-1,357.2	403.1	313.0	90.12	4.473		
12,200.0	7,272.0	12,599.4	7,660.0	89.6	90.1	-164.38	4,577.9	-1,358.0	402.9	311.2	91.72	4.392		
12,300.0	7,272.0	12,699.4	7,660.0	91.2	91.7	-164.48	4,677.9	-1,358.8	402.7	309.4	93.32	4.315		
12,400.0	7,272.0	12,799.4	7,660.0	92.9	93.4	-164.57	4,777.9	-1,359.6	402.5	307.6	94.92	4.240		
12,500.0	7,272.0	12,899.4	7,660.0	94.5	95.0	-164.67	4,877.9	-1,360.5	402.3	305.8	96.52	4.168		
12,600.0	7,272.0	12,999.4	7,660.0	96.2	96.6	-164.77	4,977.9	-1,361.3	402.1	304.0	98.12	4.098		
12,700.0	7,272.0	13,099.4	7,660.0	97.9	98.3	-164.87	5,077.9	-1,362.1	401.9	302.2	99.72	4.031		
12,800.0	7,272.0	13,199.4	7,660.0	99.5	100.0	-164.97	5,177.9	-1,363.0	401.8	300.4	101.31	3.965		
12,900.0	7,272.0	13,299.4	7,660.0	101.2	101.6	-165.06	5,277.8	-1,363.8	401.6	298.7	102.91	3.902		
13,000.0	7,272.0	13,399.4	7,660.0	102.9	103.3	-165.16	5,377.8	-1,364.6	401.4	296.9	104.50	3.841		
13,100.0	7,272.0	13,499.4	7,660.0	104.6	105.0	-165.26	5,477.8	-1,365.4	401.2	295.1	106.09	3.782		
13,200.0	7,272.0	13,599.4	7,660.0	106.3	106.6	-165.36	5,577.8	-1,366.3	401.0	293.3	107.68	3.724		
13,300.0	7,272.0	13,699.4	7,660.0	108.0	108.3	-165.46	5,677.8	-1,367.1	400.8	291.6	109.27	3.668		
13,400.0	7,272.0	13,799.4	7,660.0	109.6	110.0	-165.56	5,777.8	-1,367.9	400.7	289.8	110.86	3.614		
13,500.0	7,272.0	13,899.4	7,660.0	111.3	111.7	-165.66	5,877.8	-1,368.8	400.5	288.0	112.44	3.562		
13,600.0	7,272.0	13,999.4	7,660.0	113.0	113.3	-165.76	5,977.8	-1,369.6	400.3	286.3	114.02	3.511		
13,700.0	7,272.0	14,099.4	7,660.0	114.7	115.0	-165.86	6,077.8	-1,370.4	400.1	284.5	115.60	3.461		
13,800.0	7,272.0	14,199.3	7,660.0	116.4	116.7	-165.95	6,177.8	-1,371.2	400.0	282.8	117.18	3.413		
13,900.0	7,272.0	14,299.3	7,660.0	118.1	118.4	-166.05	6,277.8	-1,372.1	399.8	281.0	118.75	3.366		
14,000.0	7,272.0	14,399.3	7,660.0	119.8	120.1	-166.15	6,377.8	-1,372.9	399.6	279.3	120.33	3.321		
14,100.0	7,272.0	14,499.3	7,660.0	121.5	121.8	-166.25	6,477.8	-1,373.7	399.4	277.5	121.90	3.277		
14,200.0	7,272.0	14,599.3	7,660.0	123.2	123.5	-166.35	6,577.8	-1,374.5	399.3	275.8	123.47	3.234		

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 19-18-1NXH
<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 19-18-1NXH	<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		
14,300.0	7,272.0	14,699.3	7,660.0	125.0	125.2	-166.45	6,677.8	-1,375.4	399.1	274.1	125.03	3.192		
14,400.0	7,272.0	14,799.3	7,660.0	126.7	126.9	-166.55	6,777.8	-1,376.2	398.9	272.3	126.60	3.151		
14,500.0	7,272.0	14,899.3	7,660.0	128.4	128.6	-166.65	6,877.8	-1,377.0	398.8	270.6	128.16	3.112		
14,600.0	7,272.0	14,999.3	7,660.0	130.1	130.3	-166.75	6,977.7	-1,377.9	398.6	268.9	129.72	3.073		
14,700.0	7,272.0	15,099.3	7,660.0	131.8	132.0	-166.85	7,077.7	-1,378.7	398.4	267.2	131.27	3.035		
14,800.0	7,272.0	15,199.3	7,660.0	133.5	133.7	-166.95	7,177.7	-1,379.5	398.3	265.5	132.83	2.998		
14,900.0	7,272.0	15,299.3	7,660.0	135.2	135.4	-167.05	7,277.7	-1,380.3	398.1	263.7	134.38	2.963		
15,000.0	7,272.0	15,399.3	7,660.0	137.0	137.1	-167.15	7,377.7	-1,381.2	398.0	262.0	135.93	2.928		
15,100.0	7,272.0	15,499.3	7,660.0	138.7	138.8	-167.25	7,477.7	-1,382.0	397.8	260.3	137.48	2.894		
15,200.0	7,272.0	15,599.3	7,660.0	140.4	140.5	-167.35	7,577.7	-1,382.8	397.6	258.6	139.02	2.860		
15,300.0	7,272.0	15,699.3	7,660.0	142.1	142.3	-167.45	7,677.7	-1,383.7	397.5	256.9	140.56	2.828		
15,400.0	7,272.0	15,799.3	7,660.0	143.8	144.0	-167.55	7,777.7	-1,384.5	397.3	255.2	142.10	2.796		
15,500.0	7,272.0	15,899.3	7,660.0	145.6	145.7	-167.65	7,877.7	-1,385.3	397.2	253.5	143.64	2.765		
15,600.0	7,272.0	15,999.3	7,660.0	147.3	147.4	-167.76	7,977.7	-1,386.1	397.0	251.9	145.18	2.735		
15,700.0	7,272.0	16,099.3	7,660.0	149.0	149.1	-167.86	8,077.7	-1,387.0	396.9	250.2	146.71	2.705		
15,800.0	7,272.0	16,199.3	7,660.0	150.7	150.8	-167.96	8,177.7	-1,387.8	396.7	248.5	148.24	2.676		
15,900.0	7,272.0	16,299.3	7,660.0	152.5	152.6	-168.06	8,277.7	-1,388.6	396.6	246.8	149.77	2.648		
16,000.0	7,272.0	16,399.3	7,660.0	154.2	154.3	-168.16	8,377.7	-1,389.5	396.4	245.1	151.29	2.620		
16,100.0	7,272.0	16,499.3	7,660.0	155.9	156.0	-168.26	8,477.7	-1,390.3	396.3	243.5	152.82	2.593		
16,200.0	7,272.0	16,599.3	7,660.0	157.7	157.7	-168.36	8,577.6	-1,391.1	396.1	241.8	154.34	2.567		
16,300.0	7,272.0	16,699.3	7,660.0	159.4	159.5	-168.46	8,677.6	-1,391.9	396.0	240.1	155.86	2.541		
16,400.0	7,272.0	16,799.3	7,660.0	161.1	161.2	-168.56	8,777.6	-1,392.8	395.9	238.5	157.38	2.515		
16,500.0	7,272.0	16,899.3	7,660.0	162.9	162.9	-168.67	8,877.6	-1,393.6	395.7	236.8	158.89	2.490		
16,600.0	7,272.0	16,999.3	7,660.0	164.6	164.6	-168.77	8,977.6	-1,394.4	395.6	235.2	160.40	2.466		
16,700.0	7,272.0	17,099.3	7,660.0	166.3	166.4	-168.87	9,077.6	-1,395.3	395.4	233.5	161.91	2.442		
16,800.0	7,272.0	17,199.3	7,660.0	168.1	168.1	-168.97	9,177.6	-1,396.1	395.3	231.9	163.42	2.419		
16,900.0	7,272.0	17,299.3	7,660.0	169.8	169.8	-169.07	9,277.6	-1,396.9	395.2	230.2	164.93	2.396		
17,000.0	7,272.0	17,399.3	7,660.0	171.5	171.5	-169.17	9,377.6	-1,397.7	395.0	228.6	166.43	2.374		
17,100.0	7,272.0	17,499.3	7,660.0	173.3	173.3	-169.28	9,477.6	-1,398.6	394.9	227.0	167.94	2.351		
17,200.0	7,272.0	17,599.3	7,660.0	175.0	175.0	-169.38	9,577.6	-1,399.4	394.8	225.3	169.44	2.330		
17,231.3	7,272.0	17,630.0	7,660.0	175.6	175.5	-169.41	9,608.3	-1,399.7	394.7	224.8	169.91	2.323		
17,270.0	7,272.0	17,630.0	7,660.0	176.2	175.5	-169.41	9,608.3	-1,399.7	396.6	226.5	170.10	2.332		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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		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	89.70	0.2	30.0	30.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.70	0.2	30.0	30.0	29.7	0.28	108.284		
200.0	200.0	200.0	200.0	1.0	0.0	89.70	0.2	30.0	30.0	29.2	0.80	37.597		
300.0	300.0	300.0	300.0	1.5	0.0	89.70	0.2	30.0	30.0	28.8	1.22	24.498		
400.0	400.0	400.0	400.0	1.9	0.0	89.70	0.2	30.0	30.0	28.4	1.62	18.536		
500.0	500.0	500.0	500.0	2.3	0.0	89.70	0.2	30.0	30.0	28.0	2.00	15.007		
600.0	600.0	600.0	600.0	2.7	0.0	89.70	0.2	30.0	30.0	27.6	2.37	12.643		
700.0	700.0	700.0	700.0	3.1	0.0	89.70	0.2	30.0	30.0	27.3	2.74	10.939 CC, ES		
800.0	800.0	800.0	800.0	3.4	0.0	-157.78	0.2	30.0	31.6	28.4	3.18	9.937		
900.0	899.8	899.8	899.8	4.3	0.0	-160.86	0.2	30.0	36.5	32.3	4.24	8.603		
1,000.0	999.5	1,000.8	1,000.8	5.2	0.0	-163.33	-0.9	28.6	43.3	38.2	5.11	8.472		
1,100.0	1,098.7	1,101.9	1,101.8	5.9	0.0	-164.16	-4.3	24.4	50.5	44.7	5.87	8.610		
1,200.0	1,197.5	1,203.3	1,202.7	6.6	0.0	-163.92	-9.8	17.4	58.0	51.5	6.55	8.863		
1,300.0	1,295.6	1,304.4	1,303.1	7.0	0.0	-163.01	-17.5	7.8	65.8	58.9	6.95	9.468		
1,400.0	1,393.6	1,404.1	1,401.9	7.2	0.0	-162.14	-25.8	-2.6	73.7	66.5	7.20	10.239		
1,500.0	1,491.6	1,503.8	1,500.7	7.5	0.0	-161.43	-34.0	-12.9	81.6	74.1	7.49	10.904		
1,600.0	1,589.6	1,603.5	1,599.5	7.8	0.0	-160.85	-42.2	-23.3	89.5	81.8	7.78	11.504		
1,700.0	1,687.6	1,703.1	1,698.3	8.1	0.0	-160.37	-50.5	-33.6	97.5	89.4	8.09	12.045		
1,800.0	1,785.6	1,802.8	1,797.1	8.4	0.0	-159.95	-58.7	-44.0	105.4	97.0	8.41	12.533		
1,900.0	1,883.6	1,902.5	1,895.9	8.7	0.0	-159.60	-66.9	-54.3	113.3	104.6	8.73	12.974		
2,000.0	1,981.6	2,002.2	1,994.7	9.0	0.0	-159.29	-75.2	-64.7	121.2	112.2	9.07	13.373		
2,100.0	2,079.6	2,101.9	2,093.5	9.4	0.0	-159.02	-83.4	-75.0	129.2	119.8	9.40	13.735		
2,200.0	2,177.5	2,201.6	2,192.3	9.7	0.0	-158.78	-91.7	-85.4	137.1	127.4	9.75	14.064		
2,300.0	2,275.5	2,301.2	2,291.1	10.1	0.0	-158.56	-99.9	-95.7	145.0	134.9	10.10	14.363		
2,400.0	2,373.5	2,400.9	2,389.9	10.5	0.0	-158.37	-108.1	-106.1	153.0	142.5	10.45	14.635		
2,500.0	2,471.5	2,500.6	2,488.7	10.9	0.0	-158.20	-116.4	-116.4	160.9	150.1	10.81	14.885		
2,600.0	2,569.5	2,600.3	2,587.5	11.3	0.0	-158.04	-124.6	-126.8	168.9	157.7	11.17	15.113		
2,700.0	2,667.5	2,700.0	2,686.3	11.7	0.0	-157.90	-132.8	-137.1	176.8	165.3	11.54	15.323		
2,800.0	2,765.5	2,799.7	2,785.1	12.2	0.0	-157.77	-141.1	-147.4	184.8	172.9	11.91	15.517		
2,900.0	2,863.5	2,899.3	2,883.9	12.6	0.0	-157.65	-149.3	-157.8	192.7	180.4	12.28	15.695		
3,000.0	2,961.5	2,999.0	2,982.7	13.1	0.0	-157.54	-157.5	-168.1	200.7	188.0	12.65	15.860		
3,100.0	3,059.5	3,098.7	3,081.5	13.6	0.0	-157.44	-165.8	-178.5	208.6	195.6	13.03	16.012		
3,200.0	3,157.4	3,198.4	3,180.3	14.0	0.0	-157.35	-174.0	-188.8	216.5	203.1	13.41	16.154		
3,300.0	3,255.4	3,298.1	3,279.1	14.5	0.0	-157.26	-182.3	-199.2	224.5	210.7	13.79	16.285		
3,400.0	3,353.4	3,397.8	3,377.9	15.0	0.0	-157.18	-190.5	-209.5	232.4	218.3	14.17	16.408		
3,500.0	3,451.4	3,497.4	3,476.7	15.5	0.0	-157.10	-198.7	-219.9	240.4	225.8	14.55	16.523		
3,600.0	3,549.4	3,597.1	3,575.5	16.0	0.0	-157.03	-207.0	-230.2	248.3	233.4	14.93	16.629		
3,700.0	3,647.4	3,696.8	3,674.3	16.4	0.0	-156.96	-215.2	-240.6	256.3	241.0	15.32	16.730		
3,800.0	3,745.4	3,796.5	3,773.1	16.9	0.0	-156.90	-223.4	-250.9	264.2	248.5	15.71	16.824		
3,900.0	3,843.4	3,896.2	3,871.9	17.4	0.0	-156.84	-231.7	-261.3	272.2	256.1	16.10	16.912		
4,000.0	3,941.4	3,995.9	3,970.7	17.9	0.0	-156.79	-239.9	-271.6	280.2	263.7	16.48	16.995		
4,100.0	4,039.3	4,095.5	4,069.5	18.4	0.0	-156.73	-248.1	-282.0	288.1	271.2	16.87	17.073		
4,200.0	4,137.3	4,195.2	4,168.3	18.9	0.0	-156.68	-256.4	-292.3	296.1	278.8	17.27	17.147		
4,300.0	4,235.3	4,294.9	4,267.1	19.4	0.0	-156.64	-264.6	-302.7	304.0	286.3	17.66	17.216		
4,400.0	4,333.3	4,394.6	4,365.9	19.9	0.0	-156.59	-272.9	-313.0	312.0	293.9	18.05	17.282		
4,500.0	4,431.3	4,494.3	4,464.7	20.4	0.0	-156.55	-281.1	-323.4	319.9	301.5	18.44	17.344		
4,600.0	4,529.3	4,594.0	4,563.5	20.9	0.0	-156.51	-289.3	-333.7	327.9	309.0	18.84	17.403		
4,700.0	4,627.3	4,693.6	4,662.3	21.4	0.0	-156.47	-297.6	-344.1	335.8	316.6	19.23	17.459		
4,800.0	4,725.3	4,793.3	4,761.1	21.8	0.0	-156.43	-305.8	-354.4	343.8	324.1	19.63	17.513		
4,900.0	4,823.3	4,893.0	4,860.0	22.3	0.0	-156.40	-314.0	-364.8	351.7	331.7	20.03	17.563		
5,000.0	4,921.2	4,992.7	4,958.8	22.8	0.0	-156.36	-322.3	-375.1	359.7	339.3	20.42	17.612		
5,100.0	5,019.2	5,092.4	5,057.6	23.3	0.0	-156.33	-330.5	-385.5	367.6	346.8	20.82	17.657		

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 19-18-1NXH
<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 19-18-1NXH	<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	5,117.2	5,192.1	5,156.4	23.8	0.0	-156.30	-338.7	-395.8	375.6	354.4	21.22	17.701		
5,300.0	5,215.2	5,291.7	5,255.2	24.3	0.0	-156.27	-347.0	-406.1	383.5	361.9	21.62	17.743		
5,400.0	5,313.2	5,391.4	5,354.0	24.8	0.0	-156.24	-355.2	-416.5	391.5	369.5	22.01	17.783		
5,500.0	5,411.2	5,491.1	5,452.8	25.3	0.0	-156.22	-363.5	-426.8	399.4	377.0	22.41	17.821		
5,600.0	5,509.2	5,590.8	5,551.6	25.8	0.0	-156.19	-371.7	-437.2	407.4	384.6	22.81	17.858		
5,700.0	5,607.2	5,690.5	5,650.4	26.3	0.0	-156.17	-379.9	-447.5	415.4	392.1	23.21	17.893		
5,800.0	5,705.2	5,790.2	5,749.2	26.8	0.0	-156.14	-388.2	-457.9	423.3	399.7	23.61	17.926		
5,900.0	5,803.2	5,889.8	5,848.0	27.3	0.0	-156.12	-396.4	-468.2	431.3	407.2	24.01	17.959		
6,000.0	5,901.1	5,989.5	5,946.8	27.8	0.0	-156.10	-404.6	-478.6	439.2	414.8	24.42	17.990		
6,100.0	5,999.1	6,089.2	6,045.6	28.3	0.0	-156.07	-412.9	-488.9	447.2	422.4	24.82	18.019		
6,200.0	6,097.1	6,188.9	6,144.4	28.8	0.0	-156.05	-421.1	-499.3	455.1	429.9	25.22	18.048		
6,300.0	6,195.1	6,288.6	6,243.2	29.3	0.0	-156.03	-429.3	-509.6	463.1	437.5	25.62	18.075		
6,400.0	6,293.1	6,388.2	6,342.0	29.8	0.0	-156.01	-437.6	-520.0	471.0	445.0	26.02	18.102		
6,500.0	6,391.1	6,487.9	6,440.8	30.3	0.0	-155.99	-445.8	-530.3	479.0	452.6	26.42	18.127		
6,600.0	6,489.1	6,587.6	6,539.6	30.8	0.0	-155.98	-454.1	-540.7	486.9	460.1	26.83	18.152		
6,700.0	6,587.1	6,687.3	6,638.4	31.3	0.0	-155.96	-462.3	-551.0	494.9	467.7	27.23	18.175		
6,800.0	6,685.1	6,787.5	6,737.9	31.8	0.0	-166.53	-464.6	-561.5	502.8	475.2	27.57	18.238		
6,900.0	6,783.1	6,886.0	6,834.6	32.3	0.0	143.69	-450.1	-571.8	510.9	483.1	27.80	18.382		
7,000.0	6,878.9	6,982.8	6,926.0	32.8	0.0	118.76	-419.8	-581.7	519.2	491.2	27.96	18.569		
7,100.0	6,969.6	7,078.2	7,009.7	33.2	0.0	107.23	-375.4	-590.9	527.3	499.2	28.07	18.783		
7,200.0	7,052.3	7,172.3	7,084.0	33.5	0.0	100.70	-318.4	-599.2	534.9	506.7	28.16	18.997		
7,300.0	7,124.6	7,265.3	7,147.3	33.7	0.0	96.51	-250.8	-606.4	541.8	513.6	28.24	19.188		
7,400.0	7,184.2	7,357.5	7,198.6	33.8	0.0	93.67	-174.5	-612.5	547.7	519.4	28.33	19.334		
7,500.0	7,229.4	7,450.0	7,237.1	33.9	0.0	91.76	-90.7	-617.2	552.4	524.0	28.46	19.414		
7,600.0	7,258.8	7,540.1	7,261.2	33.9	0.0	90.58	-4.0	-620.5	555.8	527.2	28.63	19.415		
7,700.0	7,271.5	7,630.9	7,271.6	33.9	0.0	90.04	86.1	-622.3	557.7	528.8	28.85	19.329		
7,800.0	7,272.0	7,728.8	7,272.0	33.9	0.0	90.00	183.9	-623.2	558.5	529.3	29.14	19.162		
7,900.0	7,272.0	7,828.8	7,272.0	34.0	0.0	90.00	283.9	-624.0	559.2	529.6	29.54	18.929		
8,000.0	7,272.0	7,928.7	7,272.0	34.3	0.0	90.00	383.9	-624.8	559.9	529.9	30.04	18.639		
8,100.0	7,272.0	8,028.7	7,272.0	34.6	0.0	90.00	483.9	-625.6	560.6	530.0	30.63	18.303		
8,200.0	7,272.0	8,128.7	7,272.0	35.0	0.0	90.00	583.9	-626.5	561.3	530.0	31.31	17.928		
8,300.0	7,272.0	8,228.7	7,272.0	35.5	0.0	90.00	683.9	-627.3	562.0	530.0	32.07	17.523		
8,400.0	7,272.0	8,328.7	7,272.0	36.2	0.0	90.00	783.9	-628.1	562.8	529.8	32.91	17.098		
8,500.0	7,272.0	8,428.7	7,272.0	36.9	0.0	90.00	883.9	-629.0	563.5	529.6	33.83	16.657		
8,600.0	7,272.0	8,528.7	7,272.0	37.7	0.0	90.00	983.9	-629.8	564.2	529.4	34.81	16.210		
8,700.0	7,272.0	8,628.7	7,272.0	38.7	0.0	90.00	1,083.9	-630.6	564.9	529.1	35.84	15.760		
8,800.0	7,272.0	8,728.7	7,272.0	39.7	0.0	90.00	1,183.9	-631.4	565.6	528.7	36.94	15.312		
8,900.0	7,272.0	8,828.7	7,272.0	40.7	0.0	90.00	1,283.9	-632.3	566.3	528.2	38.08	14.871		
9,000.0	7,272.0	8,928.7	7,272.0	41.8	0.0	90.00	1,383.9	-633.1	567.0	527.8	39.28	14.438		
9,100.0	7,272.0	9,028.7	7,272.0	43.0	0.0	90.00	1,483.9	-633.9	567.8	527.3	40.51	14.016		
9,200.0	7,272.0	9,128.7	7,272.0	44.2	0.0	90.00	1,583.8	-634.7	568.5	526.7	41.78	13.606		
9,300.0	7,272.0	9,228.7	7,272.0	45.4	0.0	90.00	1,683.8	-635.6	569.2	526.1	43.09	13.210		
9,400.0	7,272.0	9,328.7	7,272.0	46.7	0.0	90.00	1,783.8	-636.4	569.9	525.5	44.43	12.828		
9,500.0	7,272.0	9,428.7	7,272.0	48.0	0.0	90.00	1,883.8	-637.2	570.6	524.8	45.79	12.461		
9,600.0	7,272.0	9,528.7	7,272.0	49.3	0.0	90.00	1,983.8	-638.0	571.3	524.2	47.19	12.107		
9,700.0	7,272.0	9,628.7	7,272.0	50.7	0.0	90.00	2,083.8	-638.9	572.1	523.4	48.61	11.769		
9,800.0	7,272.0	9,728.7	7,272.0	52.1	0.0	90.00	2,183.8	-639.7	572.8	522.7	50.05	11.444		
9,900.0	7,272.0	9,828.7	7,272.0	53.5	0.0	90.00	2,283.8	-640.5	573.5	522.0	51.51	11.133		
10,000.0	7,272.0	9,928.7	7,272.0	54.9	0.0	90.00	2,383.8	-641.4	574.2	521.2	52.99	10.836		
10,100.0	7,272.0	10,028.7	7,272.0	56.4	0.0	90.00	2,483.8	-642.2	574.9	520.4	54.49	10.551		
10,200.0	7,272.0	10,128.7	7,272.0	57.9	0.0	90.00	2,583.8	-643.0	575.6	519.6	56.00	10.279		
10,300.0	7,272.0	10,228.7	7,272.0	59.3	0.0	90.00	2,683.8	-643.8	576.4	518.8	57.53	10.018		

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 19-18-1NXH
<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 19-18-1NXH	<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	7,272.0	10,328.7	7,272.0	60.8	0.0	90.00	2,783.8	-644.7	577.1	518.0	59.07	9.769	
10,500.0	7,272.0	10,428.7	7,272.0	62.4	0.0	90.00	2,883.8	-645.5	577.8	517.2	60.62	9.531	
10,600.0	7,272.0	10,528.7	7,272.0	63.9	0.0	90.00	2,983.8	-646.3	578.5	516.3	62.19	9.302	
10,700.0	7,272.0	10,628.7	7,272.0	65.4	0.0	90.00	3,083.8	-647.1	579.2	515.4	63.77	9.084	
10,800.0	7,272.0	10,728.7	7,272.0	67.0	0.0	90.00	3,183.8	-648.0	579.9	514.6	65.35	8.874	
10,900.0	7,272.0	10,828.7	7,272.0	68.5	0.0	90.00	3,283.7	-648.8	580.6	513.7	66.95	8.673	
11,000.0	7,272.0	10,928.7	7,272.0	70.1	0.0	90.00	3,383.7	-649.6	581.4	512.8	68.55	8.481	
11,100.0	7,272.0	11,028.7	7,272.0	71.7	0.0	90.00	3,483.7	-650.5	582.1	511.9	70.16	8.296	
11,200.0	7,272.0	11,128.7	7,272.0	73.3	0.0	90.00	3,583.7	-651.3	582.8	511.0	71.78	8.119	
11,300.0	7,272.0	11,228.7	7,272.0	74.9	0.0	90.00	3,683.7	-652.1	583.5	510.1	73.40	7.949	
11,400.0	7,272.0	11,328.7	7,272.0	76.5	0.0	90.00	3,783.7	-652.9	584.2	509.2	75.04	7.786	
11,500.0	7,272.0	11,428.7	7,272.0	78.1	0.0	90.00	3,883.7	-653.8	584.9	508.3	76.67	7.629	
11,600.0	7,272.0	11,528.7	7,272.0	79.7	0.0	90.00	3,983.7	-654.6	585.7	507.3	78.32	7.478	
11,700.0	7,272.0	11,628.7	7,272.0	81.3	0.0	90.00	4,083.7	-655.4	586.4	506.4	79.97	7.333	
11,800.0	7,272.0	11,728.7	7,272.0	83.0	0.0	90.00	4,183.7	-656.2	587.1	505.5	81.62	7.193	
11,900.0	7,272.0	11,828.6	7,272.0	84.6	0.0	90.00	4,283.7	-657.1	587.8	504.5	83.28	7.058	
12,000.0	7,272.0	11,928.6	7,272.0	86.3	0.0	90.00	4,383.7	-657.9	588.5	503.6	84.94	6.929	
12,100.0	7,272.0	12,028.6	7,272.0	87.9	0.0	90.00	4,483.7	-658.7	589.2	502.6	86.61	6.803	
12,200.0	7,272.0	12,128.6	7,272.0	89.6	0.0	90.00	4,583.7	-659.6	590.0	501.7	88.28	6.683	
12,300.0	7,272.0	12,228.6	7,272.0	91.2	0.0	90.00	4,683.7	-660.4	590.7	500.7	89.95	6.566	
12,400.0	7,272.0	12,328.6	7,272.0	92.9	0.0	90.00	4,783.7	-661.2	591.4	499.8	91.63	6.454	
12,500.0	7,272.0	12,428.6	7,272.0	94.5	0.0	90.00	4,883.6	-662.0	592.1	498.8	93.31	6.345	
12,600.0	7,272.0	12,528.6	7,272.0	96.2	0.0	90.00	4,983.6	-662.9	592.8	497.8	95.00	6.240	
12,700.0	7,272.0	12,628.6	7,272.0	97.9	0.0	90.00	5,083.6	-663.7	593.5	496.8	96.69	6.139	
12,800.0	7,272.0	12,728.6	7,272.0	99.5	0.0	90.00	5,183.6	-664.5	594.2	495.9	98.38	6.041	
12,900.0	7,272.0	12,828.6	7,272.0	101.2	0.0	90.00	5,283.6	-665.3	595.0	494.9	100.07	5.945	
13,000.0	7,272.0	12,928.6	7,272.0	102.9	0.0	90.00	5,383.6	-666.2	595.7	493.9	101.77	5.853	
13,100.0	7,272.0	13,028.6	7,272.0	104.6	0.0	90.00	5,483.6	-667.0	596.4	492.9	103.46	5.764	
13,200.0	7,272.0	13,128.6	7,272.0	106.3	0.0	90.00	5,583.6	-667.8	597.1	491.9	105.16	5.678	
13,300.0	7,272.0	13,228.6	7,272.0	108.0	0.0	90.00	5,683.6	-668.7	597.8	491.0	106.87	5.594	
13,400.0	7,272.0	13,328.6	7,272.0	109.6	0.0	90.00	5,783.6	-669.5	598.5	490.0	108.57	5.513	
13,500.0	7,272.0	13,428.6	7,272.0	111.3	0.0	90.00	5,883.6	-670.3	599.3	489.0	110.28	5.434	
13,600.0	7,272.0	13,528.6	7,272.0	113.0	0.0	90.00	5,983.6	-671.1	600.0	488.0	111.99	5.357	
13,700.0	7,272.0	13,628.6	7,272.0	114.7	0.0	90.00	6,083.6	-672.0	600.7	487.0	113.70	5.283	
13,800.0	7,272.0	13,728.6	7,272.0	116.4	0.0	90.00	6,183.6	-672.8	601.4	486.0	115.41	5.211	
13,900.0	7,272.0	13,828.6	7,272.0	118.1	0.0	90.00	6,283.6	-673.6	602.1	485.0	117.12	5.141	
14,000.0	7,272.0	13,928.6	7,272.0	119.8	0.0	90.00	6,383.6	-674.4	602.8	484.0	118.84	5.073	
14,100.0	7,272.0	14,028.6	7,272.0	121.5	0.0	90.00	6,483.6	-675.3	603.6	483.0	120.56	5.006	
14,200.0	7,272.0	14,128.6	7,272.0	123.2	0.0	90.00	6,583.5	-676.1	604.3	482.0	122.28	4.942	
14,300.0	7,272.0	14,228.6	7,272.0	125.0	0.0	90.00	6,683.5	-676.9	605.0	481.0	124.00	4.879	
14,400.0	7,272.0	14,328.6	7,272.0	126.7	0.0	90.00	6,783.5	-677.8	605.7	480.0	125.72	4.818	
14,500.0	7,272.0	14,428.6	7,272.0	128.4	0.0	90.00	6,883.5	-678.6	606.4	479.0	127.44	4.758	
14,600.0	7,272.0	14,528.6	7,272.0	130.1	0.0	90.00	6,983.5	-679.4	607.1	478.0	129.16	4.701	
14,700.0	7,272.0	14,628.6	7,272.0	131.8	0.0	90.00	7,083.5	-680.2	607.8	477.0	130.89	4.644	
14,800.0	7,272.0	14,728.6	7,272.0	133.5	0.0	90.00	7,183.5	-681.1	608.6	475.9	132.61	4.589	
14,900.0	7,272.0	14,828.6	7,272.0	135.2	0.0	90.00	7,283.5	-681.9	609.3	474.9	134.34	4.535	
15,000.0	7,272.0	14,928.6	7,272.0	137.0	0.0	90.00	7,383.5	-682.7	610.0	473.9	136.07	4.483	
15,100.0	7,272.0	15,028.6	7,272.0	138.7	0.0	90.00	7,483.5	-683.5	610.7	472.9	137.80	4.432	
15,200.0	7,272.0	15,128.6	7,272.0	140.4	0.0	90.00	7,583.5	-684.4	611.4	471.9	139.53	4.382	
15,300.0	7,272.0	15,228.6	7,272.0	142.1	0.0	90.00	7,683.5	-685.2	612.1	470.9	141.26	4.333	
15,400.0	7,272.0	15,328.6	7,272.0	143.8	0.0	90.00	7,783.5	-686.0	612.9	469.9	142.99	4.286	
15,500.0	7,272.0	15,428.6	7,272.0	145.6	0.0	90.00	7,883.5	-686.8	613.6	468.8	144.72	4.240	

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 19-18-1NXH
<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 19-18-1NXH	<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		
15,600.0	7,272.0	15,528.6	7,272.0	147.3	0.0	90.00	7,983.5	-687.7	614.3	467.8	146.46	4.194		
15,700.0	7,272.0	15,628.6	7,272.0	149.0	0.0	90.00	8,083.5	-688.5	615.0	466.8	148.19	4.150		
15,800.0	7,272.0	15,728.5	7,272.0	150.7	0.0	90.00	8,183.5	-689.3	615.7	465.8	149.93	4.107		
15,900.0	7,272.0	15,828.5	7,272.0	152.5	0.0	90.00	8,283.4	-690.2	616.4	464.8	151.66	4.064		
16,000.0	7,272.0	15,928.5	7,272.0	154.2	0.0	90.00	8,383.4	-691.0	617.2	463.7	153.40	4.023		
16,100.0	7,272.0	16,028.5	7,272.0	155.9	0.0	90.00	8,483.4	-691.8	617.9	462.7	155.14	3.983		
16,200.0	7,272.0	16,128.5	7,272.0	157.7	0.0	90.00	8,583.4	-692.6	618.6	461.7	156.88	3.943		
16,300.0	7,272.0	16,228.5	7,272.0	159.4	0.0	90.00	8,683.4	-693.5	619.3	460.7	158.62	3.904		
16,400.0	7,272.0	16,328.5	7,272.0	161.1	0.0	90.00	8,783.4	-694.3	620.0	459.7	160.36	3.867		
16,500.0	7,272.0	16,428.5	7,272.0	162.9	0.0	90.00	8,883.4	-695.1	620.7	458.6	162.10	3.829		
16,600.0	7,272.0	16,528.5	7,272.0	164.6	0.0	90.00	8,983.4	-695.9	621.4	457.6	163.84	3.793		
16,700.0	7,272.0	16,628.5	7,272.0	166.3	0.0	90.00	9,083.4	-696.8	622.2	456.6	165.58	3.758		
16,800.0	7,272.0	16,728.5	7,272.0	168.1	0.0	90.00	9,183.4	-697.6	622.9	455.6	167.32	3.723		
16,900.0	7,272.0	16,828.5	7,272.0	169.8	0.0	90.00	9,283.4	-698.4	623.6	454.5	169.06	3.689		
17,000.0	7,272.0	16,928.5	7,272.0	171.5	0.0	90.00	9,383.4	-699.3	624.3	453.5	170.80	3.655		
17,100.0	7,272.0	17,028.5	7,272.0	173.3	0.0	90.00	9,483.4	-700.1	625.0	452.5	172.55	3.622		
17,200.0	7,272.0	17,128.5	7,272.0	175.0	0.0	90.00	9,583.4	-700.9	625.7	451.4	174.29	3.590		
17,270.0	7,272.0	17,198.5	7,272.0	176.2	0.0	90.00	9,653.4	-701.5	626.2	450.7	175.51	3.568 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	89.66	0.1	15.0	15.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.66	0.1	15.0	15.0	14.7	0.28	54.114		
200.0	200.0	200.0	200.0	1.0	0.0	89.66	0.1	15.0	15.0	14.2	0.80	18.790		
300.0	300.0	300.0	300.0	1.5	0.0	89.66	0.1	15.0	15.0	13.8	1.22	12.244		
400.0	400.0	400.0	400.0	1.9	0.0	89.66	0.1	15.0	15.0	13.4	1.62	9.265		
500.0	500.0	500.0	500.0	2.3	0.0	89.66	0.1	15.0	15.0	13.0	2.00	7.501		
600.0	600.0	600.0	600.0	2.7	0.0	89.66	0.1	15.0	15.0	12.6	2.37	6.320		
700.0	700.0	700.0	700.0	3.1	0.0	89.66	0.1	15.0	15.0	12.3	2.74	5.468	CC, ES	
800.0	800.0	800.0	800.0	3.4	0.0	-158.95	0.1	15.0	16.6	13.4	3.19	5.202		
900.0	899.8	900.5	900.5	4.3	0.0	-162.26	-0.7	13.4	19.9	15.7	4.26	4.685		
1,000.0	999.5	1,001.2	1,001.0	5.2	0.0	-164.09	-3.1	8.7	23.4	18.2	5.12	4.564		
1,100.0	1,098.7	1,101.9	1,101.4	5.9	0.0	-164.99	-7.2	0.9	26.8	21.0	5.87	4.573		
1,200.0	1,197.5	1,202.8	1,201.5	6.6	0.0	-165.28	-12.9	-10.1	30.3	23.8	6.54	4.637		
1,300.0	1,295.6	1,303.7	1,301.1	7.0	0.0	-165.10	-20.2	-24.2	33.8	26.8	6.94	4.866		
1,400.0	1,393.6	1,403.7	1,399.6	7.2	0.0	-164.67	-28.0	-39.5	36.9	29.7	7.19	5.125		
1,500.0	1,491.6	1,503.6	1,498.1	7.5	0.0	-164.31	-35.9	-54.7	39.9	32.5	7.48	5.340		
1,600.0	1,589.6	1,603.6	1,596.6	7.8	0.0	-163.99	-43.7	-69.9	43.0	35.2	7.77	5.532		
1,700.0	1,687.6	1,703.5	1,695.0	8.1	0.0	-163.72	-51.6	-85.1	46.1	38.0	8.08	5.704		
1,800.0	1,785.6	1,803.5	1,793.5	8.4	0.0	-163.49	-59.5	-100.4	49.1	40.8	8.39	5.857		
1,900.0	1,883.6	1,903.4	1,892.0	8.7	0.0	-163.28	-67.3	-115.6	52.2	43.5	8.71	5.994		
2,000.0	1,981.6	2,003.4	1,990.5	9.0	0.0	-163.09	-75.2	-130.8	55.3	46.3	9.04	6.117		
2,100.0	2,079.6	2,103.3	2,088.9	9.4	0.0	-162.93	-83.0	-146.0	58.4	49.0	9.37	6.228		
2,200.0	2,177.5	2,203.3	2,187.4	9.7	0.0	-162.78	-90.9	-161.2	61.5	51.7	9.71	6.327		
2,300.0	2,275.5	2,303.3	2,285.9	10.1	0.0	-162.64	-98.7	-176.5	64.5	54.5	10.06	6.417		
2,400.0	2,373.5	2,403.2	2,384.3	10.5	0.0	-162.52	-106.6	-191.7	67.6	57.2	10.40	6.498		
2,500.0	2,471.5	2,503.2	2,482.8	10.9	0.0	-162.41	-114.5	-206.9	70.7	59.9	10.76	6.572		
2,600.0	2,569.5	2,603.1	2,581.3	11.3	0.0	-162.30	-122.3	-222.1	73.8	62.7	11.11	6.638		
2,700.0	2,667.5	2,703.1	2,679.8	11.7	0.0	-162.21	-130.2	-237.4	76.8	65.4	11.47	6.699		
2,800.0	2,765.5	2,803.0	2,778.2	12.2	0.0	-162.12	-138.0	-252.6	79.9	68.1	11.83	6.755		
2,900.0	2,863.5	2,903.0	2,876.7	12.6	0.0	-162.04	-145.9	-267.8	83.0	70.8	12.20	6.806		
3,000.0	2,961.5	3,002.9	2,975.2	13.1	0.0	-161.97	-153.8	-283.0	86.1	73.5	12.56	6.852		
3,100.0	3,059.5	3,102.9	3,073.7	13.6	0.0	-161.90	-161.6	-298.3	89.2	76.2	12.93	6.895		
3,200.0	3,157.4	3,202.8	3,172.1	14.0	0.0	-161.83	-169.5	-313.5	92.2	78.9	13.30	6.934		
3,300.0	3,255.4	3,302.8	3,270.6	14.5	0.0	-161.77	-177.3	-328.7	95.3	81.6	13.67	6.971		
3,400.0	3,353.4	3,402.7	3,369.1	15.0	0.0	-161.71	-185.2	-343.9	98.4	84.3	14.05	7.004		
3,500.0	3,451.4	3,502.7	3,467.6	15.5	0.0	-161.66	-193.1	-359.2	101.5	87.0	14.42	7.035		
3,600.0	3,549.4	3,602.6	3,566.0	16.0	0.0	-161.61	-200.9	-374.4	104.5	89.7	14.80	7.064		
3,700.0	3,647.4	3,702.6	3,664.5	16.4	0.0	-161.56	-208.8	-389.6	107.6	92.4	15.18	7.091		
3,800.0	3,745.4	3,802.5	3,763.0	16.9	0.0	-161.52	-216.6	-404.8	110.7	95.1	15.56	7.116		
3,900.0	3,843.4	3,902.5	3,861.4	17.4	0.0	-161.47	-224.5	-420.0	113.8	97.8	15.94	7.139		
4,000.0	3,941.4	4,002.4	3,959.9	17.9	0.0	-161.43	-232.3	-435.3	116.9	100.5	16.32	7.160		
4,100.0	4,039.3	4,102.4	4,058.4	18.4	0.0	-161.39	-240.2	-450.5	119.9	103.2	16.70	7.181		
4,200.0	4,137.3	4,202.4	4,156.9	18.9	0.0	-161.36	-248.1	-465.7	123.0	105.9	17.09	7.200		
4,300.0	4,235.3	4,302.3	4,255.3	19.4	0.0	-161.32	-255.9	-480.9	126.1	108.6	17.47	7.217		
4,400.0	4,333.3	4,402.3	4,353.8	19.9	0.0	-161.29	-263.8	-496.2	129.2	111.3	17.86	7.234		
4,500.0	4,431.3	4,502.2	4,452.3	20.4	0.0	-161.26	-271.6	-511.4	132.3	114.0	18.24	7.250		
4,600.0	4,529.3	4,602.2	4,550.8	20.9	0.0	-161.23	-279.5	-526.6	135.3	116.7	18.63	7.265		
4,700.0	4,627.3	4,702.1	4,649.2	21.4	0.0	-161.20	-287.4	-541.8	138.4	119.4	19.02	7.278		
4,800.0	4,725.3	4,802.1	4,747.7	21.8	0.0	-161.17	-295.2	-557.1	141.5	122.1	19.41	7.292		
4,900.0	4,823.3	4,902.0	4,846.2	22.3	0.0	-161.15	-303.1	-572.3	144.6	124.8	19.79	7.304		
5,000.0	4,921.2	5,002.0	4,944.7	22.8	0.0	-161.12	-310.9	-587.5	147.7	127.5	20.18	7.316		
5,100.0	5,019.2	5,101.9	5,043.1	23.3	0.0	-161.10	-318.8	-602.7	150.7	130.2	20.57	7.327		

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 19-18-1NXH
<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 19-18-1NXH	<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		
5,200.0	5,117.2	5,201.9	5,141.6	23.8	0.0	-161.07	-326.6	-618.0	153.8	132.9	20.96	7.337		
5,300.0	5,215.2	5,301.8	5,240.1	24.3	0.0	-161.05	-334.5	-633.2	156.9	135.5	21.35	7.347		
5,400.0	5,313.2	5,401.8	5,338.5	24.8	0.0	-161.03	-342.4	-648.4	160.0	138.2	21.75	7.357		
5,500.0	5,411.2	5,501.7	5,437.0	25.3	0.0	-161.01	-350.2	-663.6	163.1	140.9	22.14	7.366		
5,600.0	5,509.2	5,601.7	5,535.5	25.8	0.0	-160.99	-358.1	-678.8	166.1	143.6	22.53	7.374		
5,700.0	5,607.2	5,701.6	5,634.0	26.3	0.0	-160.97	-365.9	-694.1	169.2	146.3	22.92	7.382		
5,800.0	5,705.2	5,801.6	5,732.4	26.8	0.0	-160.95	-373.8	-709.3	172.3	149.0	23.31	7.390		
5,900.0	5,803.2	5,901.5	5,830.9	27.3	0.0	-160.94	-381.7	-724.5	175.4	151.7	23.71	7.397		
6,000.0	5,901.1	6,001.5	5,929.4	27.8	0.0	-160.92	-389.5	-739.7	178.5	154.4	24.10	7.405		
6,100.0	5,999.1	6,101.5	6,027.9	28.3	0.0	-160.90	-397.4	-755.0	181.5	157.0	24.49	7.411		
6,200.0	6,097.1	6,201.4	6,126.3	28.8	0.0	-160.89	-405.2	-770.2	184.6	159.7	24.89	7.418		
6,300.0	6,195.1	6,301.4	6,224.8	29.3	0.0	-160.87	-413.1	-785.4	187.7	162.4	25.28	7.424		
6,400.0	6,293.1	6,401.3	6,323.3	29.8	0.0	-160.86	-420.9	-800.6	190.8	165.1	25.68	7.430		
6,500.0	6,391.1	6,501.3	6,421.8	30.3	0.0	-160.84	-428.8	-815.9	193.9	167.8	26.07	7.435		
6,600.0	6,489.1	6,601.2	6,520.2	30.8	0.0	-160.83	-436.7	-831.1	196.9	170.5	26.47	7.441		
6,700.0	6,587.1	6,701.2	6,618.7	31.3	0.0	-160.81	-444.5	-846.3	200.0	173.2	26.86	7.446		
6,800.0	6,685.1	6,801.1	6,717.2	31.8	0.0	-170.54	-452.4	-861.5	203.1	175.8	27.26	7.450		
6,900.0	6,783.1	6,900.2	6,814.8	32.3	0.0	144.76	-460.2	-876.6	205.8	177.9	27.66	7.383		
7,000.0	6,878.9	6,997.1	6,910.3	32.8	0.0	128.74	-467.1	-891.4	210.8	182.0	28.01	7.317		
7,100.0	6,969.6	7,099.4	7,011.0	33.2	0.0	126.59	-460.9	-907.1	220.5	190.8	29.69	7.426		
7,200.0	7,052.3	7,208.7	7,115.6	33.5	0.0	128.44	-434.4	-923.5	233.9	203.8	30.14	7.761		
7,300.0	7,124.6	7,326.1	7,220.2	33.7	0.0	131.37	-384.2	-940.2	249.3	219.5	29.87	8.348		
7,400.0	7,184.2	7,452.3	7,318.7	33.8	0.0	134.24	-307.4	-956.1	264.9	236.1	28.81	9.194		
7,500.0	7,229.4	7,587.2	7,403.0	33.9	0.0	136.56	-203.3	-970.1	278.5	251.3	27.20	10.237		
7,600.0	7,258.8	7,729.8	7,463.4	33.9	0.0	138.07	-75.0	-980.5	288.3	262.7	25.66	11.238		
7,700.0	7,271.5	7,877.2	7,490.9	33.9	0.0	138.61	69.3	-986.0	293.0	268.0	25.02	11.713		
7,800.0	7,272.0	7,988.8	7,492.0	33.9	0.0	138.51	180.9	-987.1	293.7	268.3	25.37	11.575		
7,900.0	7,272.0	8,088.8	7,492.0	34.0	0.0	138.41	280.9	-987.9	294.2	268.3	25.84	11.385		
8,000.0	7,272.0	8,188.8	7,492.0	34.3	0.0	138.31	380.9	-988.7	294.6	268.3	26.36	11.177		
8,100.0	7,272.0	8,288.8	7,492.0	34.6	0.0	138.20	480.9	-989.5	295.1	268.2	26.94	10.955		
8,200.0	7,272.0	8,388.8	7,492.0	35.0	0.0	138.10	580.9	-990.4	295.6	268.0	27.57	10.721		
8,300.0	7,272.0	8,488.8	7,492.0	35.5	0.0	138.00	680.9	-991.2	296.1	267.8	28.25	10.480		
8,400.0	7,272.0	8,588.8	7,492.0	36.2	0.0	137.89	780.9	-992.0	296.5	267.6	28.98	10.234		
8,500.0	7,272.0	8,688.8	7,492.0	36.9	0.0	137.79	880.9	-992.9	297.0	267.3	29.75	9.986		
8,600.0	7,272.0	8,788.8	7,492.0	37.7	0.0	137.69	980.9	-993.7	297.5	266.9	30.56	9.737		
8,700.0	7,272.0	8,888.8	7,492.0	38.7	0.0	137.59	1,080.9	-994.5	298.0	266.6	31.40	9.489		
8,800.0	7,272.0	8,988.8	7,492.0	39.7	0.0	137.49	1,180.9	-995.3	298.5	266.2	32.29	9.245		
8,900.0	7,272.0	9,088.8	7,492.0	40.7	0.0	137.38	1,280.9	-996.2	299.0	265.8	33.20	9.004		
9,000.0	7,272.0	9,188.8	7,492.0	41.8	0.0	137.28	1,380.8	-997.0	299.4	265.3	34.15	8.769		
9,100.0	7,272.0	9,288.8	7,492.0	43.0	0.0	137.18	1,480.8	-997.8	299.9	264.8	35.12	8.540		
9,200.0	7,272.0	9,388.8	7,492.0	44.2	0.0	137.08	1,580.8	-998.6	300.4	264.3	36.12	8.317		
9,300.0	7,272.0	9,488.8	7,492.0	45.4	0.0	136.98	1,680.8	-999.5	300.9	263.8	37.15	8.100		
9,400.0	7,272.0	9,588.8	7,492.0	46.7	0.0	136.88	1,780.8	-1,000.3	301.4	263.2	38.20	7.891		
9,500.0	7,272.0	9,688.8	7,492.0	48.0	0.0	136.78	1,880.8	-1,001.1	301.9	262.6	39.27	7.688		
9,600.0	7,272.0	9,788.8	7,492.0	49.3	0.0	136.69	1,980.8	-1,002.0	302.4	262.0	40.35	7.493		
9,700.0	7,272.0	9,888.8	7,492.0	50.7	0.0	136.59	2,080.8	-1,002.8	302.9	261.4	41.46	7.304		
9,800.0	7,272.0	9,988.8	7,492.0	52.1	0.0	136.49	2,180.8	-1,003.6	303.4	260.8	42.59	7.123		
9,900.0	7,272.0	10,088.8	7,492.0	53.5	0.0	136.39	2,280.8	-1,004.4	303.8	260.1	43.73	6.948		
10,000.0	7,272.0	10,188.8	7,492.0	54.9	0.0	136.29	2,380.8	-1,005.3	304.3	259.4	44.89	6.780		
10,100.0	7,272.0	10,288.8	7,492.0	56.4	0.0	136.20	2,480.8	-1,006.1	304.8	258.8	46.06	6.618		
10,200.0	7,272.0	10,388.8	7,492.0	57.9	0.0	136.10	2,580.8	-1,006.9	305.3	258.1	47.25	6.462		
10,300.0	7,272.0	10,488.8	7,492.0	59.3	0.0	136.00	2,680.8	-1,007.7	305.8	257.4	48.45	6.313		

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 19-18-1NXH
<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 19-18-1NXH	<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	7,272.0	10,588.8	7,492.0	60.8	0.0	135.91	2,780.8	-1,008.6	306.3	256.7	49.66	6.169		
10,500.0	7,272.0	10,688.8	7,492.0	62.4	0.0	135.81	2,880.8	-1,009.4	306.8	255.9	50.88	6.030		
10,600.0	7,272.0	10,788.8	7,492.0	63.9	0.0	135.71	2,980.8	-1,010.2	307.3	255.2	52.12	5.897		
10,700.0	7,272.0	10,888.8	7,492.0	65.4	0.0	135.62	3,080.7	-1,011.0	307.8	254.5	53.36	5.769		
10,800.0	7,272.0	10,988.8	7,492.0	67.0	0.0	135.52	3,180.7	-1,011.9	308.3	253.7	54.62	5.645		
10,900.0	7,272.0	11,088.8	7,492.0	68.5	0.0	135.43	3,280.7	-1,012.7	308.8	252.9	55.88	5.527		
11,000.0	7,272.0	11,188.8	7,492.0	70.1	0.0	135.34	3,380.7	-1,013.5	309.3	252.2	57.15	5.412		
11,100.0	7,272.0	11,288.8	7,492.0	71.7	0.0	135.24	3,480.7	-1,014.4	309.8	251.4	58.43	5.302		
11,200.0	7,272.0	11,388.8	7,492.0	73.3	0.0	135.15	3,580.7	-1,015.2	310.3	250.6	59.72	5.196		
11,300.0	7,272.0	11,488.7	7,492.0	74.9	0.0	135.05	3,680.7	-1,016.0	310.8	249.8	61.02	5.094		
11,400.0	7,272.0	11,588.7	7,492.0	76.5	0.0	134.96	3,780.7	-1,016.8	311.3	249.0	62.33	4.995		
11,500.0	7,272.0	11,688.7	7,492.0	78.1	0.0	134.87	3,880.7	-1,017.7	311.9	248.2	63.64	4.900		
11,600.0	7,272.0	11,788.7	7,492.0	79.7	0.0	134.77	3,980.7	-1,018.5	312.4	247.4	64.96	4.809		
11,700.0	7,272.0	11,888.7	7,492.0	81.3	0.0	134.68	4,080.7	-1,019.3	312.9	246.6	66.29	4.720		
11,800.0	7,272.0	11,988.7	7,492.0	83.0	0.0	134.59	4,180.7	-1,020.1	313.4	245.8	67.62	4.635		
11,900.0	7,272.0	12,088.7	7,492.0	84.6	0.0	134.50	4,280.7	-1,021.0	313.9	244.9	68.96	4.552		
12,000.0	7,272.0	12,188.7	7,492.0	86.3	0.0	134.41	4,380.7	-1,021.8	314.4	244.1	70.30	4.472		
12,100.0	7,272.0	12,288.7	7,492.0	87.9	0.0	134.32	4,480.7	-1,022.6	314.9	243.3	71.65	4.395		
12,200.0	7,272.0	12,388.7	7,492.0	89.6	0.0	134.23	4,580.7	-1,023.5	315.4	242.4	73.01	4.320		
12,300.0	7,272.0	12,488.7	7,492.0	91.2	0.0	134.13	4,680.7	-1,024.3	315.9	241.6	74.37	4.248		
12,400.0	7,272.0	12,588.7	7,492.0	92.9	0.0	134.04	4,780.6	-1,025.1	316.5	240.7	75.74	4.178		
12,500.0	7,272.0	12,688.7	7,492.0	94.5	0.0	133.95	4,880.6	-1,025.9	317.0	239.9	77.11	4.110		
12,600.0	7,272.0	12,788.7	7,492.0	96.2	0.0	133.86	4,980.6	-1,026.8	317.5	239.0	78.49	4.045		
12,700.0	7,272.0	12,888.7	7,492.0	97.9	0.0	133.78	5,080.6	-1,027.6	318.0	238.1	79.87	3.981		
12,800.0	7,272.0	12,988.7	7,492.0	99.5	0.0	133.69	5,180.6	-1,028.4	318.5	237.3	81.26	3.920		
12,900.0	7,272.0	13,088.7	7,492.0	101.2	0.0	133.60	5,280.6	-1,029.2	319.0	236.4	82.65	3.860		
13,000.0	7,272.0	13,188.7	7,492.0	102.9	0.0	133.51	5,380.6	-1,030.1	319.6	235.5	84.05	3.802		
13,100.0	7,272.0	13,288.7	7,492.0	104.6	0.0	133.42	5,480.6	-1,030.9	320.1	234.6	85.45	3.746		
13,200.0	7,272.0	13,388.7	7,492.0	106.3	0.0	133.33	5,580.6	-1,031.7	320.6	233.7	86.86	3.691		
13,300.0	7,272.0	13,488.7	7,492.0	108.0	0.0	133.25	5,680.6	-1,032.6	321.1	232.8	88.27	3.638		
13,400.0	7,272.0	13,588.7	7,492.0	109.6	0.0	133.16	5,780.6	-1,033.4	321.6	232.0	89.68	3.586		
13,500.0	7,272.0	13,688.7	7,492.0	111.3	0.0	133.07	5,880.6	-1,034.2	322.2	231.1	91.10	3.536		
13,600.0	7,272.0	13,788.7	7,492.0	113.0	0.0	132.98	5,980.6	-1,035.0	322.7	230.2	92.52	3.488		
13,700.0	7,272.0	13,888.7	7,492.0	114.7	0.0	132.90	6,080.6	-1,035.9	323.2	229.3	93.95	3.440		
13,800.0	7,272.0	13,988.7	7,492.0	116.4	0.0	132.81	6,180.6	-1,036.7	323.7	228.4	95.38	3.394		
13,900.0	7,272.0	14,088.7	7,492.0	118.1	0.0	132.73	6,280.6	-1,037.5	324.3	227.4	96.81	3.349		
14,000.0	7,272.0	14,188.7	7,492.0	119.8	0.0	132.64	6,380.5	-1,038.3	324.8	226.5	98.25	3.306		
14,100.0	7,272.0	14,288.7	7,492.0	121.5	0.0	132.55	6,480.5	-1,039.2	325.3	225.6	99.69	3.263		
14,200.0	7,272.0	14,388.7	7,492.0	123.2	0.0	132.47	6,580.5	-1,040.0	325.8	224.7	101.13	3.222		
14,300.0	7,272.0	14,488.7	7,492.0	125.0	0.0	132.38	6,680.5	-1,040.8	326.4	223.8	102.58	3.182		
14,400.0	7,272.0	14,588.7	7,492.0	126.7	0.0	132.30	6,780.5	-1,041.7	326.9	222.9	104.03	3.142		
14,500.0	7,272.0	14,688.7	7,492.0	128.4	0.0	132.22	6,880.5	-1,042.5	327.4	221.9	105.48	3.104		
14,600.0	7,272.0	14,788.7	7,492.0	130.1	0.0	132.13	6,980.5	-1,043.3	328.0	221.0	106.94	3.067		
14,700.0	7,272.0	14,888.7	7,492.0	131.8	0.0	132.05	7,080.5	-1,044.1	328.5	220.1	108.40	3.030		
14,800.0	7,272.0	14,988.7	7,492.0	133.5	0.0	131.96	7,180.5	-1,045.0	329.0	219.2	109.86	2.995		
14,900.0	7,272.0	15,088.7	7,492.0	135.2	0.0	131.88	7,280.5	-1,045.8	329.5	218.2	111.33	2.960		
15,000.0	7,272.0	15,188.7	7,492.0	137.0	0.0	131.80	7,380.5	-1,046.6	330.1	217.3	112.80	2.926		
15,100.0	7,272.0	15,288.7	7,492.0	138.7	0.0	131.72	7,480.5	-1,047.4	330.6	216.3	114.27	2.893		
15,200.0	7,272.0	15,388.6	7,492.0	140.4	0.0	131.63	7,580.5	-1,048.3	331.2	215.4	115.75	2.861		
15,300.0	7,272.0	15,488.6	7,492.0	142.1	0.0	131.55	7,680.5	-1,049.1	331.7	214.5	117.23	2.829		
15,400.0	7,272.0	15,588.6	7,492.0	143.8	0.0	131.47	7,780.5	-1,049.9	332.2	213.5	118.71	2.799		
15,500.0	7,272.0	15,688.6	7,492.0	145.6	0.0	131.39	7,880.5	-1,050.8	332.8	212.6	120.19	2.769		

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 19-18-1NXH
<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 19-18-1NXH	<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		
15,600.0	7,272.0	15,788.6	7,492.0	147.3	0.0	131.31	7,980.5	-1,051.6	333.3	211.6	121.68	2.739		
15,700.0	7,272.0	15,888.6	7,492.0	149.0	0.0	131.23	8,080.4	-1,052.4	333.8	210.7	123.17	2.710		
15,800.0	7,272.0	15,988.6	7,492.0	150.7	0.0	131.14	8,180.4	-1,053.2	334.4	209.7	124.66	2.682		
15,900.0	7,272.0	16,088.6	7,492.0	152.5	0.0	131.06	8,280.4	-1,054.1	334.9	208.8	126.15	2.655		
16,000.0	7,272.0	16,188.6	7,492.0	154.2	0.0	130.98	8,380.4	-1,054.9	335.5	207.8	127.65	2.628		
16,100.0	7,272.0	16,288.6	7,492.0	155.9	0.0	130.90	8,480.4	-1,055.7	336.0	206.8	129.15	2.602		
16,200.0	7,272.0	16,388.6	7,492.0	157.7	0.0	130.82	8,580.4	-1,056.5	336.5	205.9	130.66	2.576		
16,300.0	7,272.0	16,488.6	7,492.0	159.4	0.0	130.74	8,680.4	-1,057.4	337.1	204.9	132.16	2.550		
16,400.0	7,272.0	16,588.6	7,492.0	161.1	0.0	130.66	8,780.4	-1,058.2	337.6	203.9	133.67	2.526		
16,500.0	7,272.0	16,688.6	7,492.0	162.9	0.0	130.59	8,880.4	-1,059.0	338.2	203.0	135.18	2.502		
16,600.0	7,272.0	16,788.6	7,492.0	164.6	0.0	130.51	8,980.4	-1,059.9	338.7	202.0	136.69	2.478		
16,700.0	7,272.0	16,888.6	7,492.0	166.3	0.0	130.43	9,080.4	-1,060.7	339.2	201.0	138.21	2.455		
16,800.0	7,272.0	16,988.6	7,492.0	168.1	0.0	130.35	9,180.4	-1,061.5	339.8	200.1	139.73	2.432		
16,900.0	7,272.0	17,088.6	7,492.0	169.8	0.0	130.27	9,280.4	-1,062.3	340.3	199.1	141.25	2.410		
17,000.0	7,272.0	17,188.6	7,492.0	171.5	0.0	130.19	9,380.4	-1,063.2	340.9	198.1	142.77	2.388		
17,100.0	7,272.0	17,288.6	7,492.0	173.3	0.0	130.12	9,480.4	-1,064.0	341.4	197.1	144.29	2.366		
17,200.0	7,272.0	17,388.6	7,492.0	175.0	0.0	130.04	9,580.4	-1,064.8	342.0	196.2	145.82	2.345		
17,270.0	7,272.0	17,458.6	7,492.0	176.2	0.0	129.99	9,650.4	-1,065.4	342.4	195.5	146.89	2.331 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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		
0.0	0.0	0.0	0.0	0.0	0.0	89.72	0.2	45.0	45.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.72	0.2	45.0	45.0	44.7	0.28	162.494		
200.0	200.0	200.0	200.0	1.0	0.0	89.72	0.2	45.0	45.0	44.2	0.80	56.417		
300.0	300.0	300.0	300.0	1.5	0.0	89.72	0.2	45.0	45.0	43.8	1.22	36.760		
400.0	400.0	400.0	400.0	1.9	0.0	89.72	0.2	45.0	45.0	43.4	1.62	27.812		
500.0	500.0	500.0	500.0	2.3	0.0	89.72	0.2	45.0	45.0	43.0	2.00	22.516		
600.0	600.0	600.0	600.0	2.7	0.0	89.72	0.2	45.0	45.0	42.6	2.37	18.970		
700.0	700.0	700.0	700.0	3.1	0.0	89.72	0.2	45.0	45.0	42.3	2.74	16.412 CC, ES		
800.0	800.0	800.0	800.0	3.4	0.0	-157.35	0.2	45.0	46.6	43.4	3.18	14.677		
900.0	899.8	899.8	899.8	4.3	0.0	-159.56	0.2	45.0	51.5	47.2	4.23	12.171		
1,000.0	999.5	999.5	999.5	5.2	0.0	-162.43	0.2	45.0	59.7	54.6	5.11	11.697		
1,100.0	1,098.7	1,100.4	1,100.4	5.9	0.0	-164.36	-1.2	44.0	70.2	64.4	5.87	11.963		
1,200.0	1,197.5	1,201.7	1,201.5	6.6	0.0	-164.62	-5.5	40.8	81.6	75.1	6.55	12.455		
1,300.0	1,295.6	1,302.5	1,301.9	7.0	0.0	-163.87	-12.6	35.7	93.9	87.0	6.97	13.480		
1,400.0	1,393.6	1,401.7	1,400.7	7.2	0.0	-163.11	-20.3	30.0	106.5	99.3	7.21	14.764		
1,500.0	1,491.6	1,500.9	1,499.4	7.5	0.0	-162.52	-28.0	24.4	119.1	111.6	7.50	15.886		
1,600.0	1,589.6	1,600.1	1,598.1	7.8	0.0	-162.03	-35.8	18.7	131.7	123.9	7.79	16.903		
1,700.0	1,687.6	1,699.3	1,696.9	8.1	0.0	-161.63	-43.5	13.1	144.3	136.2	8.10	17.824		
1,800.0	1,785.6	1,798.5	1,795.6	8.4	0.0	-161.30	-51.3	7.4	156.9	148.5	8.41	18.659		
1,900.0	1,883.6	1,897.7	1,894.3	8.7	0.0	-161.01	-59.0	1.8	169.5	160.8	8.73	19.418		
2,000.0	1,981.6	1,996.9	1,993.1	9.0	0.0	-160.77	-66.7	-3.8	182.1	173.1	9.06	20.107		
2,100.0	2,079.6	2,096.1	2,091.8	9.4	0.0	-160.55	-74.5	-9.5	194.8	185.4	9.39	20.735		
2,200.0	2,177.5	2,195.3	2,190.6	9.7	0.0	-160.37	-82.2	-15.1	207.4	197.6	9.73	21.308		
2,300.0	2,275.5	2,294.5	2,289.3	10.1	0.0	-160.20	-89.9	-20.8	220.0	209.9	10.08	21.832		
2,400.0	2,373.5	2,393.7	2,388.0	10.5	0.0	-160.05	-97.7	-26.4	232.6	222.2	10.43	22.312		
2,500.0	2,471.5	2,492.9	2,486.8	10.9	0.0	-159.92	-105.4	-32.1	245.3	234.5	10.78	22.752		
2,600.0	2,569.5	2,592.1	2,585.5	11.3	0.0	-159.80	-113.1	-37.7	257.9	246.8	11.14	23.158		
2,700.0	2,667.5	2,691.3	2,684.2	11.7	0.0	-159.69	-120.9	-43.4	270.5	259.0	11.50	23.532		
2,800.0	2,765.5	2,790.5	2,783.0	12.2	0.0	-159.59	-128.6	-49.0	283.2	271.3	11.86	23.877		
2,900.0	2,863.5	2,889.7	2,881.7	12.6	0.0	-159.50	-136.3	-54.7	295.8	283.6	12.22	24.197		
3,000.0	2,961.5	2,988.9	2,980.4	13.1	0.0	-159.42	-144.1	-60.3	308.4	295.8	12.59	24.493		
3,100.0	3,059.5	3,088.1	3,079.2	13.6	0.0	-159.34	-151.8	-65.9	321.1	308.1	12.96	24.769		
3,200.0	3,157.4	3,187.3	3,177.9	14.0	0.0	-159.27	-159.6	-71.6	333.7	320.4	13.33	25.025		
3,300.0	3,255.4	3,286.4	3,276.6	14.5	0.0	-159.20	-167.3	-77.2	346.3	332.6	13.71	25.265		
3,400.0	3,353.4	3,385.6	3,375.4	15.0	0.0	-159.14	-175.0	-82.9	359.0	344.9	14.08	25.488		
3,500.0	3,451.4	3,484.8	3,474.1	15.5	0.0	-159.09	-182.8	-88.5	371.6	357.1	14.46	25.697		
3,600.0	3,549.4	3,584.0	3,572.8	16.0	0.0	-159.03	-190.5	-94.2	384.2	369.4	14.84	25.893		
3,700.0	3,647.4	3,683.2	3,671.6	16.4	0.0	-158.98	-198.2	-99.8	396.9	381.6	15.22	26.077		
3,800.0	3,745.4	3,782.4	3,770.3	16.9	0.0	-158.94	-206.0	-105.5	409.5	393.9	15.60	26.250		
3,900.0	3,843.4	3,881.6	3,869.0	17.4	0.0	-158.89	-213.7	-111.1	422.1	406.2	15.98	26.413		
4,000.0	3,941.4	3,980.8	3,967.8	17.9	0.0	-158.85	-221.4	-116.7	434.8	418.4	16.37	26.567		
4,100.0	4,039.3	4,080.0	4,066.5	18.4	0.0	-158.81	-229.2	-122.4	447.4	430.7	16.75	26.712		
4,200.0	4,137.3	4,179.2	4,165.2	18.9	0.0	-158.78	-236.9	-128.0	460.1	442.9	17.14	26.849		
4,300.0	4,235.3	4,278.4	4,264.0	19.4	0.0	-158.74	-244.6	-133.7	472.7	455.2	17.52	26.978		
4,400.0	4,333.3	4,377.6	4,362.7	19.9	0.0	-158.71	-252.4	-139.3	485.3	467.4	17.91	27.101		
4,500.0	4,431.3	4,476.8	4,461.4	20.4	0.0	-158.68	-260.1	-145.0	498.0	479.7	18.30	27.218		
4,600.0	4,529.3	4,576.0	4,560.2	20.9	0.0	-158.65	-267.9	-150.6	510.6	491.9	18.68	27.329		
4,700.0	4,627.3	4,675.2	4,658.9	21.4	0.0	-158.62	-275.6	-156.3	523.2	504.2	19.07	27.434		
4,800.0	4,725.3	4,774.4	4,757.6	21.8	0.0	-158.59	-283.3	-161.9	535.9	516.4	19.46	27.534		
4,900.0	4,823.3	4,873.6	4,856.4	22.3	0.0	-158.57	-291.1	-167.5	548.5	528.7	19.85	27.629		
5,000.0	4,921.2	4,972.8	4,955.1	22.8	0.0	-158.54	-298.8	-173.2	561.2	540.9	20.24	27.720		
5,100.0	5,019.2	5,072.0	5,053.9	23.3	0.0	-158.52	-306.5	-178.8	573.8	553.2	20.63	27.807		

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 19-18-1NXH
<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 19-18-1NXH	<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	5,117.2	5,171.2	5,152.6	23.8	0.0	-158.50	-314.3	-184.5	586.4	565.4	21.03	27.890		
5,300.0	5,215.2	5,270.4	5,251.3	24.3	0.0	-158.47	-322.0	-190.1	599.1	577.7	21.42	27.970		
5,400.0	5,313.2	5,369.6	5,350.1	24.8	0.0	-158.45	-329.7	-195.8	611.7	589.9	21.81	28.045		
5,500.0	5,411.2	5,468.8	5,448.8	25.3	0.0	-158.43	-337.5	-201.4	624.4	602.2	22.20	28.118		
5,600.0	5,509.2	5,568.0	5,547.5	25.8	0.0	-158.41	-345.2	-207.1	637.0	614.4	22.60	28.188		
5,700.0	5,607.2	5,667.2	5,646.3	26.3	0.0	-158.40	-352.9	-212.7	649.6	626.6	22.99	28.254		
5,800.0	5,705.2	5,766.4	5,745.0	26.8	0.0	-158.38	-360.7	-218.4	662.3	638.9	23.39	28.319		
5,900.0	5,803.2	5,865.6	5,843.7	27.3	0.0	-158.36	-368.4	-224.0	674.9	651.1	23.78	28.380		
6,000.0	5,901.1	5,964.8	5,942.5	27.8	0.0	-158.34	-376.2	-229.6	687.6	663.4	24.18	28.439		
6,100.0	5,999.1	6,064.0	6,041.2	28.3	0.0	-158.33	-383.9	-235.3	700.2	675.6	24.57	28.496		
6,200.0	6,097.1	6,163.2	6,139.9	28.8	0.0	-158.31	-391.6	-240.9	712.8	687.9	24.97	28.551		
6,300.0	6,195.1	6,262.4	6,238.7	29.3	0.0	-158.30	-399.4	-246.6	725.5	700.1	25.36	28.604		
6,400.0	6,293.1	6,361.6	6,337.4	29.8	0.0	-158.29	-407.1	-252.2	738.1	712.4	25.76	28.655		
6,500.0	6,391.1	6,460.8	6,436.1	30.3	0.0	-158.27	-414.8	-257.9	750.8	724.6	26.16	28.704		
6,600.0	6,489.1	6,560.0	6,534.9	30.8	0.0	-158.26	-422.6	-263.5	763.4	736.8	26.55	28.751		
6,700.0	6,587.1	6,659.2	6,633.6	31.3	0.0	-158.25	-430.3	-269.2	776.0	749.1	26.95	28.796		
6,800.0	6,685.1	6,758.4	6,732.3	31.8	0.0	-168.25	-438.0	-274.8	788.7	761.3	27.34	28.845		
6,900.0	6,783.1	6,856.7	6,830.2	32.3	0.0	143.58	-445.7	-280.4	801.1	773.4	27.75	28.874		
7,000.0	6,878.9	6,951.4	6,924.5	32.8	0.0	121.23	-453.1	-285.8	813.9	785.7	28.16	28.897		
7,100.0	6,969.6	7,039.7	7,012.3	33.2	0.0	112.80	-460.0	-290.8	828.1	799.5	28.58	28.976		
7,200.0	7,052.3	7,130.4	7,102.7	33.5	0.0	109.67	-464.2	-296.0	845.5	816.5	29.01	29.144		
7,300.0	7,124.6	7,238.0	7,209.3	33.7	0.0	108.99	-451.7	-302.1	865.7	836.3	29.40	29.448		
7,400.0	7,184.2	7,365.2	7,329.6	33.8	0.0	109.66	-411.7	-309.0	887.3	857.7	29.61	29.968		
7,500.0	7,229.4	7,521.3	7,460.5	33.9	0.0	111.27	-327.9	-316.6	908.6	879.0	29.51	30.791		
7,600.0	7,258.8	7,715.7	7,584.4	33.9	0.0	113.27	-179.5	-323.9	926.2	897.1	29.06	31.868		
7,700.0	7,271.5	7,947.9	7,657.8	33.9	0.0	114.55	39.1	-328.3	936.0	907.3	28.74	32.570		
7,800.0	7,272.0	8,089.2	7,662.0	33.9	0.0	114.58	180.3	-328.7	937.8	908.8	29.04	32.289		
7,900.0	7,272.0	8,189.2	7,662.0	34.0	0.0	114.54	280.2	-328.8	939.1	909.6	29.49	31.848		
8,000.0	7,272.0	8,289.2	7,662.0	34.3	0.0	114.50	380.2	-328.9	940.4	910.4	30.01	31.332		
8,100.0	7,272.0	8,389.2	7,662.0	34.6	0.0	114.47	480.2	-329.1	941.7	911.1	30.62	30.755		
8,200.0	7,272.0	8,489.2	7,662.0	35.0	0.0	114.43	580.2	-329.2	943.0	911.7	31.30	30.128		
8,300.0	7,272.0	8,589.2	7,662.0	35.5	0.0	114.39	680.2	-329.3	944.3	912.3	32.05	29.463		
8,400.0	7,272.0	8,689.2	7,662.0	36.2	0.0	114.36	780.2	-329.4	945.6	912.8	32.87	28.771		
8,500.0	7,272.0	8,789.2	7,662.0	36.9	0.0	114.32	880.2	-329.5	946.9	913.2	33.74	28.062		
8,600.0	7,272.0	8,889.2	7,662.0	37.7	0.0	114.29	980.2	-329.6	948.2	913.6	34.68	27.345		
8,700.0	7,272.0	8,989.2	7,662.0	38.7	0.0	114.25	1,080.2	-329.7	949.6	913.9	35.66	26.627		
8,800.0	7,272.0	9,089.1	7,662.0	39.7	0.0	114.22	1,180.2	-329.8	950.9	914.2	36.69	25.914		
8,900.0	7,272.0	9,189.1	7,662.0	40.7	0.0	114.18	1,280.1	-329.9	952.2	914.4	37.77	25.210		
9,000.0	7,272.0	9,289.1	7,662.0	41.8	0.0	114.15	1,380.1	-330.1	953.5	914.6	38.89	24.520		
9,100.0	7,272.0	9,389.1	7,662.0	43.0	0.0	114.11	1,480.1	-330.2	954.8	914.7	40.04	23.846		
9,200.0	7,272.0	9,489.1	7,662.0	44.2	0.0	114.08	1,580.1	-330.3	956.1	914.9	41.23	23.191		
9,300.0	7,272.0	9,589.1	7,662.0	45.4	0.0	114.04	1,680.1	-330.4	957.4	914.9	42.45	22.555		
9,400.0	7,272.0	9,689.1	7,662.0	46.7	0.0	114.01	1,780.1	-330.5	958.7	915.0	43.69	21.941		
9,500.0	7,272.0	9,789.1	7,662.0	48.0	0.0	113.97	1,880.1	-330.6	960.0	915.0	44.97	21.349		
9,600.0	7,272.0	9,889.1	7,662.0	49.3	0.0	113.94	1,980.1	-330.7	961.3	915.0	46.27	20.778		
9,700.0	7,272.0	9,989.1	7,662.0	50.7	0.0	113.90	2,080.1	-330.8	962.6	915.0	47.59	20.229		
9,800.0	7,272.0	10,089.0	7,662.0	52.1	0.0	113.87	2,180.1	-330.9	963.9	915.0	48.93	19.701		
9,900.0	7,272.0	10,189.0	7,662.0	53.5	0.0	113.83	2,280.0	-331.1	965.2	915.0	50.29	19.194		
10,000.0	7,272.0	10,289.0	7,662.0	54.9	0.0	113.80	2,380.0	-331.2	966.6	914.9	51.67	18.708		
10,100.0	7,272.0	10,389.0	7,662.0	56.4	0.0	113.76	2,480.0	-331.3	967.9	914.8	53.06	18.241		
10,200.0	7,272.0	10,489.0	7,662.0	57.9	0.0	113.73	2,580.0	-331.4	969.2	914.7	54.47	17.793		
10,300.0	7,272.0	10,589.0	7,662.0	59.3	0.0	113.70	2,680.0	-331.5	970.5	914.6	55.89	17.363		

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 19-18-1NXH
<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 19-18-1NXH	<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	7,272.0	10,689.0	7,662.0	60.8	0.0	113.66	2,780.0	-331.6	971.8	914.5	57.33	16.951		
10,500.0	7,272.0	10,789.0	7,662.0	62.4	0.0	113.63	2,880.0	-331.7	973.1	914.3	58.78	16.556		
10,600.0	7,272.0	10,889.0	7,662.0	63.9	0.0	113.60	2,980.0	-331.8	974.4	914.2	60.24	16.176		
10,700.0	7,272.0	10,989.0	7,662.0	65.4	0.0	113.56	3,080.0	-331.9	975.7	914.0	61.71	15.812		
10,800.0	7,272.0	11,088.9	7,662.0	67.0	0.0	113.53	3,180.0	-332.1	977.0	913.9	63.19	15.463		
10,900.0	7,272.0	11,188.9	7,662.0	68.5	0.0	113.49	3,279.9	-332.2	978.4	913.7	64.68	15.127		
11,000.0	7,272.0	11,288.9	7,662.0	70.1	0.0	113.46	3,379.9	-332.3	979.7	913.5	66.17	14.804		
11,100.0	7,272.0	11,388.9	7,662.0	71.7	0.0	113.43	3,479.9	-332.4	981.0	913.3	67.68	14.494		
11,200.0	7,272.0	11,488.9	7,662.0	73.3	0.0	113.39	3,579.9	-332.5	982.3	913.1	69.19	14.196		
11,300.0	7,272.0	11,588.9	7,662.0	74.9	0.0	113.36	3,679.9	-332.6	983.6	912.9	70.71	13.910		
11,400.0	7,272.0	11,688.9	7,662.0	76.5	0.0	113.33	3,779.9	-332.7	984.9	912.7	72.24	13.634		
11,500.0	7,272.0	11,788.9	7,662.0	78.1	0.0	113.30	3,879.9	-332.8	986.2	912.5	73.78	13.368		
11,600.0	7,272.0	11,888.9	7,662.0	79.7	0.0	113.26	3,979.9	-332.9	987.6	912.2	75.32	13.112		
11,700.0	7,272.0	11,988.8	7,662.0	81.3	0.0	113.23	4,079.9	-333.1	988.9	912.0	76.86	12.866		
11,800.0	7,272.0	12,088.8	7,662.0	83.0	0.0	113.20	4,179.8	-333.2	990.2	911.8	78.41	12.628		
11,900.0	7,272.0	12,188.8	7,662.0	84.6	0.0	113.16	4,279.8	-333.3	991.5	911.5	79.97	12.399		
12,000.0	7,272.0	12,288.8	7,662.0	86.3	0.0	113.13	4,379.8	-333.4	992.8	911.3	81.53	12.178		
12,100.0	7,272.0	12,388.8	7,662.0	87.9	0.0	113.10	4,479.8	-333.5	994.1	911.0	83.09	11.964		
12,200.0	7,272.0	12,488.8	7,662.0	89.6	0.0	113.07	4,579.8	-333.6	995.4	910.8	84.66	11.758		
12,300.0	7,272.0	12,588.8	7,662.0	91.2	0.0	113.04	4,679.8	-333.7	996.8	910.5	86.24	11.558		
12,400.0	7,272.0	12,688.8	7,662.0	92.9	0.0	113.00	4,779.8	-333.8	998.1	910.3	87.82	11.366		
12,500.0	7,272.0	12,788.8	7,662.0	94.5	0.0	112.97	4,879.8	-333.9	999.4	910.0	89.40	11.179		
12,600.0	7,272.0	12,888.8	7,662.0	96.2	0.0	112.94	4,979.8	-334.1	1,000.7	909.7	90.98	10.999		
12,700.0	7,272.0	12,988.7	7,662.0	97.9	0.0	112.91	5,079.8	-334.2	1,002.0	909.5	92.57	10.824		
12,800.0	7,272.0	13,088.7	7,662.0	99.5	0.0	112.88	5,179.7	-334.3	1,003.4	909.2	94.16	10.655		
12,900.0	7,272.0	13,188.7	7,662.0	101.2	0.0	112.84	5,279.7	-334.4	1,004.7	908.9	95.76	10.492		
13,000.0	7,272.0	13,288.7	7,662.0	102.9	0.0	112.81	5,379.7	-334.5	1,006.0	908.6	97.36	10.333		
13,100.0	7,272.0	13,388.7	7,662.0	104.6	0.0	112.78	5,479.7	-334.6	1,007.3	908.4	98.96	10.179		
13,200.0	7,272.0	13,488.7	7,662.0	106.3	0.0	112.75	5,579.7	-334.7	1,008.6	908.1	100.56	10.030		
13,300.0	7,272.0	13,588.7	7,662.0	108.0	0.0	112.72	5,679.7	-334.8	1,010.0	907.8	102.17	9.885		
13,400.0	7,272.0	13,688.7	7,662.0	109.6	0.0	112.69	5,779.7	-335.0	1,011.3	907.5	103.78	9.745		
13,500.0	7,272.0	13,788.7	7,662.0	111.3	0.0	112.66	5,879.7	-335.1	1,012.6	907.2	105.39	9.608		
13,600.0	7,272.0	13,888.7	7,662.0	113.0	0.0	112.62	5,979.7	-335.2	1,013.9	906.9	107.00	9.475		
13,700.0	7,272.0	13,988.6	7,662.0	114.7	0.0	112.59	6,079.7	-335.3	1,015.2	906.6	108.62	9.347		
13,800.0	7,272.0	14,088.6	7,662.0	116.4	0.0	112.56	6,179.6	-335.4	1,016.6	906.3	110.24	9.221		
13,900.0	7,272.0	14,188.6	7,662.0	118.1	0.0	112.53	6,279.6	-335.5	1,017.9	906.0	111.86	9.100		
14,000.0	7,272.0	14,288.6	7,662.0	119.8	0.0	112.50	6,379.6	-335.6	1,019.2	905.7	113.48	8.981		
14,100.0	7,272.0	14,388.6	7,662.0	121.5	0.0	112.47	6,479.6	-335.7	1,020.5	905.4	115.11	8.866		
14,200.0	7,272.0	14,488.6	7,662.0	123.2	0.0	112.44	6,579.6	-335.8	1,021.9	905.1	116.74	8.754		
14,300.0	7,272.0	14,588.6	7,662.0	125.0	0.0	112.41	6,679.6	-336.0	1,023.2	904.8	118.36	8.644		
14,400.0	7,272.0	14,688.6	7,662.0	126.7	0.0	112.38	6,779.6	-336.1	1,024.5	904.5	120.00	8.538		
14,500.0	7,272.0	14,788.6	7,662.0	128.4	0.0	112.35	6,879.6	-336.2	1,025.8	904.2	121.63	8.434		
14,600.0	7,272.0	14,888.6	7,662.0	130.1	0.0	112.32	6,979.6	-336.3	1,027.1	903.9	123.26	8.333		
14,700.0	7,272.0	14,988.5	7,662.0	131.8	0.0	112.29	7,079.5	-336.4	1,028.5	903.6	124.90	8.234		
14,800.0	7,272.0	15,088.5	7,662.0	133.5	0.0	112.26	7,179.5	-336.5	1,029.8	903.3	126.54	8.138		
14,900.0	7,272.0	15,188.5	7,662.0	135.2	0.0	112.23	7,279.5	-336.6	1,031.1	902.9	128.18	8.045		
15,000.0	7,272.0	15,288.5	7,662.0	137.0	0.0	112.20	7,379.5	-336.7	1,032.4	902.6	129.82	7.953		
15,100.0	7,272.0	15,388.5	7,662.0	138.7	0.0	112.17	7,479.5	-336.8	1,033.8	902.3	131.46	7.864		
15,200.0	7,272.0	15,488.5	7,662.0	140.4	0.0	112.14	7,579.5	-337.0	1,035.1	902.0	133.10	7.777		
15,300.0	7,272.0	15,588.5	7,662.0	142.1	0.0	112.11	7,679.5	-337.1	1,036.4	901.7	134.75	7.692		
15,400.0	7,272.0	15,688.5	7,662.0	143.8	0.0	112.08	7,779.5	-337.2	1,037.8	901.4	136.39	7.609		
15,500.0	7,272.0	15,788.5	7,662.0	145.6	0.0	112.05	7,879.5	-337.3	1,039.1	901.0	138.04	7.527		

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 19-18-1NXH
<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 19-18-1NXH	<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		
15,600.0	7,272.0	15,888.4	7,662.0	147.3	0.0	112.02	7,979.5	-337.4	1,040.4	900.7	139.69	7.448		
15,700.0	7,272.0	15,988.4	7,662.0	149.0	0.0	111.99	8,079.4	-337.5	1,041.7	900.4	141.34	7.370		
15,800.0	7,272.0	16,088.4	7,662.0	150.7	0.0	111.96	8,179.4	-337.6	1,043.1	900.1	142.99	7.295		
15,900.0	7,272.0	16,188.4	7,662.0	152.5	0.0	111.93	8,279.4	-337.7	1,044.4	899.7	144.64	7.220		
16,000.0	7,272.0	16,288.4	7,662.0	154.2	0.0	111.90	8,379.4	-337.8	1,045.7	899.4	146.30	7.148		
16,100.0	7,272.0	16,388.4	7,662.0	155.9	0.0	111.87	8,479.4	-338.0	1,047.0	899.1	147.95	7.077		
16,200.0	7,272.0	16,488.4	7,662.0	157.7	0.0	111.84	8,579.4	-338.1	1,048.4	898.8	149.61	7.007		
16,300.0	7,272.0	16,588.4	7,662.0	159.4	0.0	111.81	8,679.4	-338.2	1,049.7	898.4	151.27	6.939		
16,400.0	7,272.0	16,688.4	7,662.0	161.1	0.0	111.78	8,779.4	-338.3	1,051.0	898.1	152.93	6.873		
16,500.0	7,272.0	16,788.4	7,662.0	162.9	0.0	111.75	8,879.4	-338.4	1,052.4	897.8	154.59	6.808		
16,600.0	7,272.0	16,888.3	7,662.0	164.6	0.0	111.73	8,979.4	-338.5	1,053.7	897.4	156.25	6.744		
16,700.0	7,272.0	16,988.3	7,662.0	166.3	0.0	111.70	9,079.3	-338.6	1,055.0	897.1	157.91	6.681		
16,800.0	7,272.0	17,088.3	7,662.0	168.1	0.0	111.67	9,179.3	-338.7	1,056.4	896.8	159.57	6.620		
16,900.0	7,272.0	17,188.3	7,662.0	169.8	0.0	111.64	9,279.3	-338.8	1,057.7	896.4	161.23	6.560		
17,000.0	7,272.0	17,288.3	7,662.0	171.5	0.0	111.61	9,379.3	-339.0	1,059.0	896.1	162.90	6.501		
17,100.0	7,272.0	17,388.3	7,662.0	173.3	0.0	111.58	9,479.3	-339.1	1,060.3	895.8	164.56	6.443		
17,200.0	7,272.0	17,488.3	7,662.0	175.0	0.0	111.55	9,579.3	-339.2	1,061.7	895.4	166.23	6.387		
17,270.0	7,272.0	17,558.3	7,662.0	176.2	0.0	111.53	9,649.3	-339.3	1,062.6	895.2	167.40	6.348 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	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	324.793		
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		
700.0	700.0	700.0	700.0	3.1	0.0	89.70	0.5	90.0	90.0	87.2	2.74	32.810	CC, ES	
800.0	800.0	800.0	800.0	3.4	0.0	-156.96	0.5	90.0	91.6	88.4	3.17	28.878		
900.0	899.8	899.8	899.8	4.3	0.0	-158.14	0.5	90.0	96.4	92.2	4.21	22.881		
1,000.0	999.5	999.5	999.5	5.2	0.0	-159.86	0.5	90.0	104.6	99.5	5.08	20.577		
1,100.0	1,098.7	1,098.7	1,098.7	5.9	0.0	-161.86	0.5	90.0	116.1	110.2	5.85	19.851		
1,200.0	1,197.5	1,197.5	1,197.5	6.6	0.0	-163.90	0.5	90.0	131.0	124.5	6.54	20.031		
1,300.0	1,295.6	1,295.6	1,295.6	7.0	0.0	-165.85	0.5	90.0	149.4	142.4	6.96	21.450		
1,400.0	1,393.6	1,391.3	1,391.3	7.2	0.0	-167.01	-0.7	90.8	169.5	162.3	7.21	23.521		
1,500.0	1,491.6	1,486.4	1,486.2	7.5	0.0	-167.05	-4.4	93.6	191.0	183.5	7.47	25.562		
1,600.0	1,589.6	1,580.7	1,580.3	7.8	0.0	-166.30	-10.5	98.2	213.9	206.2	7.75	27.623		
1,700.0	1,687.6	1,676.8	1,675.8	8.1	0.0	-165.17	-18.7	104.3	238.0	230.0	8.03	29.624		
1,800.0	1,785.6	1,773.7	1,772.2	8.4	0.0	-164.21	-27.0	110.5	262.2	253.9	8.34	31.454		
1,900.0	1,883.6	1,870.7	1,868.5	8.7	0.0	-163.41	-35.3	116.8	286.5	277.8	8.65	33.130		
2,000.0	1,981.6	1,967.6	1,964.9	9.0	0.0	-162.74	-43.6	123.0	310.8	301.8	8.97	34.666		
2,100.0	2,079.6	2,064.5	2,061.3	9.4	0.0	-162.16	-51.9	129.2	335.1	325.8	9.29	36.073		
2,200.0	2,177.5	2,161.5	2,157.7	9.7	0.0	-161.66	-60.2	135.5	359.5	349.9	9.62	37.365		
2,300.0	2,275.5	2,258.4	2,254.1	10.1	0.0	-161.23	-68.5	141.7	383.9	373.9	9.96	38.552		
2,400.0	2,373.5	2,355.4	2,350.5	10.5	0.0	-160.84	-76.8	147.9	408.3	398.0	10.30	39.645		
2,500.0	2,471.5	2,452.3	2,446.8	10.9	0.0	-160.50	-85.1	154.1	432.7	422.1	10.64	40.652		
2,600.0	2,569.5	2,549.2	2,543.2	11.3	0.0	-160.20	-93.4	160.4	457.2	446.2	10.99	41.582		
2,700.0	2,667.5	2,646.2	2,639.6	11.7	0.0	-159.93	-101.7	166.6	481.6	470.3	11.35	42.443		
2,800.0	2,765.5	2,743.1	2,736.0	12.2	0.0	-159.68	-110.1	172.8	506.1	494.4	11.70	43.241		
2,900.0	2,863.5	2,840.1	2,832.4	12.6	0.0	-159.46	-118.4	179.1	530.5	518.5	12.06	43.982		
3,000.0	2,961.5	2,937.0	2,928.8	13.1	0.0	-159.25	-126.7	185.3	555.0	542.6	12.42	44.670		
3,100.0	3,059.5	3,033.9	3,025.2	13.6	0.0	-159.07	-135.0	191.5	579.5	566.7	12.79	45.312		
3,200.0	3,157.4	3,130.9	3,121.5	14.0	0.0	-158.90	-143.3	197.7	604.0	590.8	13.15	45.911		
3,300.0	3,255.4	3,227.8	3,217.9	14.5	0.0	-158.74	-151.6	204.0	628.4	614.9	13.52	46.471		
3,400.0	3,353.4	3,324.8	3,314.3	15.0	0.0	-158.59	-159.9	210.2	652.9	639.0	13.89	46.996		
3,500.0	3,451.4	3,421.7	3,410.7	15.5	0.0	-158.46	-168.2	216.4	677.4	663.2	14.27	47.488		
3,600.0	3,549.4	3,518.7	3,507.1	16.0	0.0	-158.33	-176.5	222.7	701.9	687.3	14.64	47.949		
3,700.0	3,647.4	3,615.6	3,603.5	16.4	0.0	-158.21	-184.8	228.9	726.4	711.4	15.01	48.384		
3,800.0	3,745.4	3,712.5	3,699.8	16.9	0.0	-158.10	-193.1	235.1	750.9	735.5	15.39	48.793		
3,900.0	3,843.4	3,809.5	3,796.2	17.4	0.0	-158.00	-201.5	241.3	775.4	759.7	15.77	49.179		
4,000.0	3,941.4	3,906.4	3,892.6	17.9	0.0	-157.90	-209.8	247.6	799.9	783.8	16.15	49.543		
4,100.0	4,039.3	4,003.4	3,989.0	18.4	0.0	-157.81	-218.1	253.8	824.5	807.9	16.53	49.887		
4,200.0	4,137.3	4,100.3	4,085.4	18.9	0.0	-157.72	-226.4	260.0	849.0	832.1	16.91	50.214		
4,300.0	4,235.3	4,197.2	4,181.8	19.4	0.0	-157.64	-234.7	266.3	873.5	856.2	17.29	50.523		
4,400.0	4,333.3	4,294.2	4,278.1	19.9	0.0	-157.57	-243.0	272.5	898.0	880.3	17.67	50.816		
4,500.0	4,431.3	4,391.1	4,374.5	20.4	0.0	-157.49	-251.3	278.7	922.5	904.5	18.06	51.094		
4,600.0	4,529.3	4,488.1	4,470.9	20.9	0.0	-157.43	-259.6	284.9	947.0	928.6	18.44	51.359		
4,700.0	4,627.3	4,585.0	4,567.3	21.4	0.0	-157.36	-267.9	291.2	971.6	952.7	18.82	51.611		
4,800.0	4,725.3	4,682.0	4,663.7	21.8	0.0	-157.30	-276.2	297.4	996.1	976.9	19.21	51.852		
4,900.0	4,823.3	4,778.9	4,760.1	22.3	0.0	-157.24	-284.5	303.6	1,020.6	1,001.0	19.60	52.081		
5,000.0	4,921.2	4,875.8	4,856.4	22.8	0.0	-157.18	-292.9	309.9	1,045.1	1,025.1	19.98	52.299		
5,100.0	5,019.2	4,972.8	4,952.8	23.3	0.0	-157.13	-301.2	316.1	1,069.6	1,049.3	20.37	52.508		

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 19-18-1NXH
<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 19-18-1NXH	<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	
5,200.0	5,117.2	5,069.7	5,049.2	23.8	0.0	-157.08	-309.5	322.3	1,094.2	1,073.4	20.76	52.708	
5,300.0	5,215.2	5,166.7	5,145.6	24.3	0.0	-157.03	-317.8	328.5	1,118.7	1,097.5	21.15	52.899	
5,400.0	5,313.2	5,263.6	5,242.0	24.8	0.0	-156.98	-326.1	334.8	1,143.2	1,121.7	21.54	53.081	
5,500.0	5,411.2	5,360.5	5,338.4	25.3	0.0	-156.94	-334.4	341.0	1,167.7	1,145.8	21.93	53.257	
5,600.0	5,509.2	5,457.5	5,434.7	25.8	0.0	-156.89	-342.7	347.2	1,192.3	1,170.0	22.32	53.425	
5,700.0	5,607.2	5,554.4	5,531.1	26.3	0.0	-156.85	-351.0	353.5	1,216.8	1,194.1	22.71	53.586	
5,800.0	5,705.2	5,651.4	5,627.5	26.8	0.0	-156.81	-359.3	359.7	1,241.3	1,218.2	23.10	53.741	
5,900.0	5,803.2	5,748.3	5,723.9	27.3	0.0	-156.77	-367.6	365.9	1,265.9	1,242.4	23.49	53.890	
6,000.0	5,901.1	5,845.3	5,820.3	27.8	0.0	-156.74	-375.9	372.1	1,290.4	1,266.5	23.88	54.033	
6,100.0	5,999.1	5,942.2	5,916.7	28.3	0.0	-156.70	-384.3	378.4	1,314.9	1,290.6	24.27	54.170	
6,200.0	6,097.1	6,039.1	6,013.0	28.8	0.0	-156.67	-392.6	384.6	1,339.5	1,314.8	24.67	54.303	
6,300.0	6,195.1	6,136.1	6,109.4	29.3	0.0	-156.64	-400.9	390.8	1,364.0	1,338.9	25.06	54.430	
6,400.0	6,293.1	6,233.0	6,205.8	29.8	0.0	-156.60	-409.2	397.1	1,388.5	1,363.1	25.45	54.553	
6,500.0	6,391.1	6,330.0	6,302.2	30.3	0.0	-156.57	-417.5	403.3	1,413.0	1,387.2	25.85	54.672	
6,600.0	6,489.1	6,426.9	6,398.6	30.8	0.0	-156.54	-425.8	409.5	1,437.6	1,411.3	26.24	54.786	
6,700.0	6,587.1	6,523.8	6,495.0	31.3	0.0	-156.52	-434.1	415.8	1,462.1	1,435.5	26.63	54.897	
6,800.0	6,685.1	6,620.8	6,591.3	31.8	0.0	-166.77	-442.4	422.0	1,486.7	1,459.6	27.02	55.014	
6,900.0	6,783.1	6,716.7	6,686.7	32.3	0.0	143.39	-450.6	428.1	1,511.2	1,483.9	27.39	55.181	
7,000.0	6,878.9	6,809.0	6,778.4	32.8	0.0	118.91	-458.5	434.1	1,535.7	1,508.0	27.72	55.407	
7,100.0	6,969.6	6,906.5	6,875.6	33.2	0.0	108.09	-459.0	440.3	1,560.0	1,532.0	28.02	55.680	
7,200.0	7,052.3	7,012.4	6,979.7	33.5	0.0	102.28	-440.9	446.8	1,583.3	1,555.0	28.27	56.001	
7,300.0	7,124.6	7,129.0	7,088.1	33.7	0.0	98.83	-399.1	453.4	1,604.8	1,576.4	28.48	56.347	
7,400.0	7,184.2	7,258.6	7,196.0	33.8	0.0	96.73	-328.1	459.7	1,623.7	1,595.1	28.64	56.687	
7,500.0	7,229.4	7,402.8	7,293.9	33.9	0.0	95.51	-222.9	465.1	1,639.0	1,610.2	28.77	56.960	
7,600.0	7,258.8	7,560.7	7,367.5	33.9	0.0	94.86	-83.8	468.6	1,649.5	1,620.6	28.91	57.051	
7,700.0	7,271.5	7,728.0	7,401.1	33.9	0.0	94.54	79.5	469.4	1,654.5	1,625.3	29.12	56.816	
7,800.0	7,272.0	7,841.5	7,402.0	33.9	0.0	94.50	192.9	468.5	1,655.3	1,625.9	29.42	56.258	
7,900.0	7,272.0	7,941.5	7,402.0	34.0	0.0	94.50	292.9	467.7	1,656.0	1,626.2	29.83	55.510	
8,000.0	7,272.0	8,041.5	7,402.0	34.3	0.0	94.50	392.9	466.9	1,656.7	1,626.4	30.34	54.604	
8,100.0	7,272.0	8,141.5	7,402.0	34.6	0.0	94.50	492.9	466.1	1,657.4	1,626.5	30.94	53.569	
8,200.0	7,272.0	8,241.5	7,402.0	35.0	0.0	94.50	592.9	465.2	1,658.2	1,626.5	31.63	52.428	
8,300.0	7,272.0	8,341.5	7,402.0	35.5	0.0	94.49	692.9	464.4	1,658.9	1,626.5	32.40	51.206	
8,400.0	7,272.0	8,441.5	7,402.0	36.2	0.0	94.49	792.9	463.6	1,659.6	1,626.4	33.24	49.926	
8,500.0	7,272.0	8,541.5	7,402.0	36.9	0.0	94.49	892.9	462.8	1,660.3	1,626.2	34.16	48.610	
8,600.0	7,272.0	8,641.5	7,402.0	37.7	0.0	94.49	992.9	461.9	1,661.0	1,625.9	35.14	47.275	
8,700.0	7,272.0	8,741.5	7,402.0	38.7	0.0	94.49	1,092.9	461.1	1,661.7	1,625.6	36.17	45.937	
8,800.0	7,272.0	8,841.5	7,402.0	39.7	0.0	94.49	1,192.9	460.3	1,662.4	1,625.2	37.27	44.608	
8,900.0	7,272.0	8,941.5	7,402.0	40.7	0.0	94.48	1,292.9	459.4	1,663.2	1,624.8	38.41	43.299	
9,000.0	7,272.0	9,041.4	7,402.0	41.8	0.0	94.48	1,392.9	458.6	1,663.9	1,624.3	39.60	42.017	
9,100.0	7,272.0	9,141.4	7,402.0	43.0	0.0	94.48	1,492.9	457.8	1,664.6	1,623.8	40.83	40.768	
9,200.0	7,272.0	9,241.4	7,402.0	44.2	0.0	94.48	1,592.9	457.0	1,665.3	1,623.2	42.10	39.557	
9,300.0	7,272.0	9,341.4	7,402.0	45.4	0.0	94.48	1,692.9	456.1	1,666.0	1,622.6	43.40	38.385	
9,400.0	7,272.0	9,441.4	7,402.0	46.7	0.0	94.47	1,792.9	455.3	1,666.7	1,622.0	44.74	37.256	
9,500.0	7,272.0	9,541.4	7,402.0	48.0	0.0	94.47	1,892.8	454.5	1,667.4	1,621.3	46.10	36.170	
9,600.0	7,272.0	9,641.4	7,402.0	49.3	0.0	94.47	1,992.8	453.7	1,668.2	1,620.7	47.49	35.126	
9,700.0	7,272.0	9,741.4	7,402.0	50.7	0.0	94.47	2,092.8	452.8	1,668.9	1,620.0	48.90	34.125	
9,800.0	7,272.0	9,841.4	7,402.0	52.1	0.0	94.47	2,192.8	452.0	1,669.6	1,619.3	50.34	33.166	
9,900.0	7,272.0	9,941.4	7,402.0	53.5	0.0	94.46	2,292.8	451.2	1,670.3	1,618.5	51.80	32.247	
10,000.0	7,272.0	10,041.4	7,402.0	54.9	0.0	94.46	2,392.8	450.4	1,671.0	1,617.7	53.27	31.368	
10,100.0	7,272.0	10,141.4	7,402.0	56.4	0.0	94.46	2,492.8	449.5	1,671.7	1,617.0	54.76	30.526	
10,200.0	7,272.0	10,241.4	7,402.0	57.9	0.0	94.46	2,592.8	448.7	1,672.4	1,616.2	56.27	29.721	
10,300.0	7,272.0	10,341.4	7,402.0	59.3	0.0	94.46	2,692.8	447.9	1,673.2	1,615.4	57.79	28.950	

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 19-18-1NXH
<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 19-18-1NXH	<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	7,272.0	10,441.4	7,402.0	60.8	0.0	94.45	2,792.8	447.1	1,673.9	1,614.5	59.33	28.213		
10,500.0	7,272.0	10,541.4	7,402.0	62.4	0.0	94.45	2,892.8	446.2	1,674.6	1,613.7	60.88	27.507		
10,600.0	7,272.0	10,641.4	7,402.0	63.9	0.0	94.45	2,992.8	445.4	1,675.3	1,612.9	62.44	26.832		
10,700.0	7,272.0	10,741.4	7,402.0	65.4	0.0	94.45	3,092.8	444.6	1,676.0	1,612.0	64.01	26.185		
10,800.0	7,272.0	10,841.4	7,402.0	67.0	0.0	94.45	3,192.8	443.7	1,676.7	1,611.1	65.59	25.565		
10,900.0	7,272.0	10,941.4	7,402.0	68.5	0.0	94.44	3,292.8	442.9	1,677.4	1,610.3	67.18	24.971		
11,000.0	7,272.0	11,041.4	7,402.0	70.1	0.0	94.44	3,392.8	442.1	1,678.2	1,609.4	68.77	24.401		
11,100.0	7,272.0	11,141.4	7,402.0	71.7	0.0	94.44	3,492.8	441.3	1,678.9	1,608.5	70.38	23.855		
11,200.0	7,272.0	11,241.4	7,402.0	73.3	0.0	94.44	3,592.7	440.4	1,679.6	1,607.6	71.99	23.330		
11,300.0	7,272.0	11,341.4	7,402.0	74.9	0.0	94.44	3,692.7	439.6	1,680.3	1,606.7	73.61	22.826		
11,400.0	7,272.0	11,441.4	7,402.0	76.5	0.0	94.44	3,792.7	438.8	1,681.0	1,605.8	75.24	22.342		
11,500.0	7,272.0	11,541.4	7,402.0	78.1	0.0	94.43	3,892.7	438.0	1,681.7	1,604.9	76.87	21.877		
11,600.0	7,272.0	11,641.4	7,402.0	79.7	0.0	94.43	3,992.7	437.1	1,682.4	1,603.9	78.51	21.430		
11,700.0	7,272.0	11,741.4	7,402.0	81.3	0.0	94.43	4,092.7	436.3	1,683.2	1,603.0	80.15	20.999		
11,800.0	7,272.0	11,841.4	7,402.0	83.0	0.0	94.43	4,192.7	435.5	1,683.9	1,602.1	81.80	20.585		
11,900.0	7,272.0	11,941.4	7,402.0	84.6	0.0	94.43	4,292.7	434.7	1,684.6	1,601.1	83.45	20.186		
12,000.0	7,272.0	12,041.4	7,402.0	86.3	0.0	94.42	4,392.7	433.8	1,685.3	1,600.2	85.11	19.801		
12,100.0	7,272.0	12,141.4	7,402.0	87.9	0.0	94.42	4,492.7	433.0	1,686.0	1,599.2	86.77	19.430		
12,200.0	7,272.0	12,241.4	7,402.0	89.6	0.0	94.42	4,592.7	432.2	1,686.7	1,598.3	88.44	19.072		
12,300.0	7,272.0	12,341.4	7,402.0	91.2	0.0	94.42	4,692.7	431.3	1,687.4	1,597.3	90.11	18.727		
12,400.0	7,272.0	12,441.4	7,402.0	92.9	0.0	94.42	4,792.7	430.5	1,688.2	1,596.4	91.78	18.393		
12,500.0	7,272.0	12,541.4	7,402.0	94.5	0.0	94.41	4,892.7	429.7	1,688.9	1,595.4	93.46	18.071		
12,600.0	7,272.0	12,641.4	7,402.0	96.2	0.0	94.41	4,992.7	428.9	1,689.6	1,594.5	95.14	17.759		
12,700.0	7,272.0	12,741.4	7,402.0	97.9	0.0	94.41	5,092.7	428.0	1,690.3	1,593.5	96.82	17.458		
12,800.0	7,272.0	12,841.4	7,402.0	99.5	0.0	94.41	5,192.7	427.2	1,691.0	1,592.5	98.51	17.167		
12,900.0	7,272.0	12,941.3	7,402.0	101.2	0.0	94.41	5,292.6	426.4	1,691.7	1,591.5	100.19	16.884		
13,000.0	7,272.0	13,041.3	7,402.0	102.9	0.0	94.41	5,392.6	425.6	1,692.4	1,590.6	101.89	16.611		
13,100.0	7,272.0	13,141.3	7,402.0	104.6	0.0	94.40	5,492.6	424.7	1,693.2	1,589.6	103.58	16.347		
13,200.0	7,272.0	13,241.3	7,402.0	106.3	0.0	94.40	5,592.6	423.9	1,693.9	1,588.6	105.27	16.090		
13,300.0	7,272.0	13,341.3	7,402.0	108.0	0.0	94.40	5,692.6	423.1	1,694.6	1,587.6	106.97	15.841		
13,400.0	7,272.0	13,441.3	7,402.0	109.6	0.0	94.40	5,792.6	422.3	1,695.3	1,586.6	108.67	15.600		
13,500.0	7,272.0	13,541.3	7,402.0	111.3	0.0	94.40	5,892.6	421.4	1,696.0	1,585.6	110.37	15.366		
13,600.0	7,272.0	13,641.3	7,402.0	113.0	0.0	94.39	5,992.6	420.6	1,696.7	1,584.7	112.08	15.139		
13,700.0	7,272.0	13,741.3	7,402.0	114.7	0.0	94.39	6,092.6	419.8	1,697.4	1,583.7	113.78	14.918		
13,800.0	7,272.0	13,841.3	7,402.0	116.4	0.0	94.39	6,192.6	419.0	1,698.2	1,582.7	115.49	14.704		
13,900.0	7,272.0	13,941.3	7,402.0	118.1	0.0	94.39	6,292.6	418.1	1,698.9	1,581.7	117.20	14.496		
14,000.0	7,272.0	14,041.3	7,402.0	119.8	0.0	94.39	6,392.6	417.3	1,699.6	1,580.7	118.91	14.293		
14,100.0	7,272.0	14,141.3	7,402.0	121.5	0.0	94.39	6,492.6	416.5	1,700.3	1,579.7	120.62	14.096		
14,200.0	7,272.0	14,241.3	7,402.0	123.2	0.0	94.38	6,592.6	415.6	1,701.0	1,578.7	122.34	13.904		
14,300.0	7,272.0	14,341.3	7,402.0	125.0	0.0	94.38	6,692.6	414.8	1,701.7	1,577.7	124.05	13.718		
14,400.0	7,272.0	14,441.3	7,402.0	126.7	0.0	94.38	6,792.6	414.0	1,702.4	1,576.7	125.77	13.536		
14,500.0	7,272.0	14,541.3	7,402.0	128.4	0.0	94.38	6,892.5	413.2	1,703.2	1,575.7	127.49	13.360		
14,600.0	7,272.0	14,641.3	7,402.0	130.1	0.0	94.38	6,992.5	412.3	1,703.9	1,574.7	129.20	13.187		
14,700.0	7,272.0	14,741.3	7,402.0	131.8	0.0	94.37	7,092.5	411.5	1,704.6	1,573.7	130.92	13.020		
14,800.0	7,272.0	14,841.3	7,402.0	133.5	0.0	94.37	7,192.5	410.7	1,705.3	1,572.7	132.65	12.856		
14,900.0	7,272.0	14,941.3	7,402.0	135.2	0.0	94.37	7,292.5	409.9	1,706.0	1,571.7	134.37	12.697		
15,000.0	7,272.0	15,041.3	7,402.0	137.0	0.0	94.37	7,392.5	409.0	1,706.7	1,570.6	136.09	12.541		
15,100.0	7,272.0	15,141.3	7,402.0	138.7	0.0	94.37	7,492.5	408.2	1,707.5	1,569.6	137.82	12.389		
15,200.0	7,272.0	15,241.3	7,402.0	140.4	0.0	94.36	7,592.5	407.4	1,708.2	1,568.6	139.54	12.241		
15,300.0	7,272.0	15,341.3	7,402.0	142.1	0.0	94.36	7,692.5	406.6	1,708.9	1,567.6	141.27	12.097		
15,400.0	7,272.0	15,441.3	7,402.0	143.8	0.0	94.36	7,792.5	405.7	1,709.6	1,566.6	143.00	11.955		
15,500.0	7,272.0	15,541.3	7,402.0	145.6	0.0	94.36	7,892.5	404.9	1,710.3	1,565.6	144.72	11.818		

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 19-18-1NXH
<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 19-18-1NXH	<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		
15,600.0	7,272.0	15,641.3	7,402.0	147.3	0.0	94.36	7,992.5	404.1	1,711.0	1,564.6	146.45	11.683		
15,700.0	7,272.0	15,741.3	7,402.0	149.0	0.0	94.36	8,092.5	403.2	1,711.7	1,563.6	148.18	11.551		
15,800.0	7,272.0	15,841.3	7,402.0	150.7	0.0	94.35	8,192.5	402.4	1,712.5	1,562.5	149.92	11.423		
15,900.0	7,272.0	15,941.3	7,402.0	152.5	0.0	94.35	8,292.5	401.6	1,713.2	1,561.5	151.65	11.297		
16,000.0	7,272.0	16,041.3	7,402.0	154.2	0.0	94.35	8,392.5	400.8	1,713.9	1,560.5	153.38	11.174		
16,100.0	7,272.0	16,141.3	7,402.0	155.9	0.0	94.35	8,492.5	399.9	1,714.6	1,559.5	155.11	11.054		
16,200.0	7,272.0	16,241.3	7,402.0	157.7	0.0	94.35	8,592.4	399.1	1,715.3	1,558.5	156.85	10.936		
16,300.0	7,272.0	16,341.3	7,402.0	159.4	0.0	94.34	8,692.4	398.3	1,716.0	1,557.4	158.58	10.821		
16,400.0	7,272.0	16,441.3	7,402.0	161.1	0.0	94.34	8,792.4	397.5	1,716.7	1,556.4	160.32	10.708		
16,500.0	7,272.0	16,541.3	7,402.0	162.9	0.0	94.34	8,892.4	396.6	1,717.5	1,555.4	162.05	10.598		
16,600.0	7,272.0	16,641.3	7,402.0	164.6	0.0	94.34	8,992.4	395.8	1,718.2	1,554.4	163.79	10.490		
16,700.0	7,272.0	16,741.3	7,402.0	166.3	0.0	94.34	9,092.4	395.0	1,718.9	1,553.4	165.52	10.384		
16,800.0	7,272.0	16,841.2	7,402.0	168.1	0.0	94.34	9,192.4	394.2	1,719.6	1,552.3	167.26	10.281		
16,900.0	7,272.0	16,941.2	7,402.0	169.8	0.0	94.33	9,292.4	393.3	1,720.3	1,551.3	169.00	10.179		
17,000.0	7,272.0	17,041.2	7,402.0	171.5	0.0	94.33	9,392.4	392.5	1,721.0	1,550.3	170.74	10.080		
17,100.0	7,272.0	17,141.2	7,402.0	173.3	0.0	94.33	9,492.4	391.7	1,721.7	1,549.3	172.48	9.982		
17,200.0	7,272.0	17,241.2	7,402.0	175.0	0.0	94.33	9,592.4	390.9	1,722.5	1,548.2	174.22	9.887		
17,270.0	7,272.0	17,311.2	7,402.0	176.2	0.0	94.33	9,662.4	390.3	1,723.0	1,547.5	175.44	9.821 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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-													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	89.71	0.4	75.0	75.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.71	0.4	75.0	75.0	74.7	0.28	270.690		
200.0	200.0	200.0	200.0	1.0	0.0	89.71	0.4	75.0	75.0	74.2	0.80	93.984		
300.0	300.0	300.0	300.0	1.5	0.0	89.71	0.4	75.0	75.0	73.8	1.22	61.238		
400.0	400.0	400.0	400.0	1.9	0.0	89.71	0.4	75.0	75.0	73.4	1.62	46.333		
500.0	500.0	500.0	500.0	2.3	0.0	89.71	0.4	75.0	75.0	73.0	2.00	37.511		
600.0	600.0	600.0	600.0	2.7	0.0	89.71	0.4	75.0	75.0	72.6	2.37	31.602		
700.0	700.0	700.0	700.0	3.1	0.0	89.71	0.4	75.0	75.0	72.2	2.74	27.342 CC, ES		
800.0	800.0	800.0	800.0	3.4	0.0	-157.03	0.4	75.0	76.6	73.4	3.17	24.142		
900.0	899.8	899.8	899.8	4.3	0.0	-158.43	0.4	75.0	81.4	77.2	4.22	19.308		
1,000.0	999.5	999.5	999.5	5.2	0.0	-160.42	0.4	75.0	89.6	84.5	5.09	17.611		
1,100.0	1,098.7	1,098.7	1,098.7	5.9	0.0	-162.66	0.4	75.0	101.2	95.3	5.85	17.279		
1,200.0	1,197.5	1,197.5	1,197.5	6.6	0.0	-164.88	0.4	75.0	116.2	109.6	6.55	17.746		
1,300.0	1,295.6	1,296.2	1,296.1	7.0	0.0	-166.24	-1.2	75.1	134.4	127.5	6.97	19.295		
1,400.0	1,393.6	1,394.9	1,394.8	7.2	0.0	-166.13	-6.2	75.4	153.3	146.1	7.21	21.251		
1,500.0	1,491.6	1,493.4	1,492.9	7.5	0.0	-165.07	-14.1	76.0	171.9	164.4	7.49	22.945		
1,600.0	1,589.6	1,591.6	1,590.8	7.8	0.0	-164.12	-22.2	76.5	190.5	182.7	7.78	24.486		
1,700.0	1,687.6	1,689.8	1,688.7	8.1	0.0	-163.34	-30.4	77.1	209.1	201.0	8.08	25.888		
1,800.0	1,785.6	1,788.0	1,786.5	8.4	0.0	-162.69	-38.5	77.7	227.8	219.4	8.38	27.164		
1,900.0	1,883.6	1,886.2	1,884.4	8.7	0.0	-162.14	-46.7	78.2	246.4	237.7	8.70	28.325		
2,000.0	1,981.6	1,984.4	1,982.3	9.0	0.0	-161.66	-54.8	78.8	265.2	256.1	9.02	29.382		
2,100.0	2,079.6	2,082.6	2,080.1	9.4	0.0	-161.25	-63.0	79.4	283.9	274.5	9.35	30.347		
2,200.0	2,177.5	2,180.9	2,178.0	9.7	0.0	-160.89	-71.1	79.9	302.6	292.9	9.69	31.228		
2,300.0	2,275.5	2,279.1	2,275.9	10.1	0.0	-160.57	-79.3	80.5	321.4	311.3	10.03	32.034		
2,400.0	2,373.5	2,377.3	2,373.8	10.5	0.0	-160.28	-87.5	81.1	340.1	329.7	10.38	32.773		
2,500.0	2,471.5	2,475.5	2,471.6	10.9	0.0	-160.03	-95.6	81.6	358.9	348.2	10.73	33.451		
2,600.0	2,569.5	2,573.7	2,569.5	11.3	0.0	-159.80	-103.8	82.2	377.7	366.6	11.08	34.076		
2,700.0	2,667.5	2,671.9	2,667.4	11.7	0.0	-159.59	-111.9	82.7	396.4	385.0	11.44	34.652		
2,800.0	2,765.5	2,770.1	2,765.2	12.2	0.0	-159.40	-120.1	83.3	415.2	403.4	11.80	35.185		
2,900.0	2,863.5	2,868.3	2,863.1	12.6	0.0	-159.23	-128.2	83.9	434.0	421.8	12.16	35.678		
3,000.0	2,961.5	2,966.6	2,961.0	13.1	0.0	-159.07	-136.4	84.4	452.8	440.2	12.53	36.135		
3,100.0	3,059.5	3,064.8	3,058.9	13.6	0.0	-158.93	-144.5	85.0	471.6	458.7	12.90	36.559		
3,200.0	3,157.4	3,163.0	3,156.7	14.0	0.0	-158.79	-152.7	85.6	490.4	477.1	13.27	36.955		
3,300.0	3,255.4	3,261.2	3,254.6	14.5	0.0	-158.67	-160.8	86.1	509.2	495.5	13.64	37.324		
3,400.0	3,353.4	3,359.4	3,352.5	15.0	0.0	-158.55	-169.0	86.7	527.9	513.9	14.02	37.668		
3,500.0	3,451.4	3,457.6	3,450.3	15.5	0.0	-158.45	-177.1	87.3	546.7	532.4	14.39	37.991		
3,600.0	3,549.4	3,555.8	3,548.2	16.0	0.0	-158.35	-185.3	87.8	565.5	550.8	14.77	38.293		
3,700.0	3,647.4	3,654.0	3,646.1	16.4	0.0	-158.25	-193.4	88.4	584.3	569.2	15.15	38.576		
3,800.0	3,745.4	3,752.3	3,744.0	16.9	0.0	-158.16	-201.6	88.9	603.2	587.6	15.53	38.843		
3,900.0	3,843.4	3,850.5	3,841.8	17.4	0.0	-158.08	-209.8	89.5	622.0	606.0	15.91	39.094		
4,000.0	3,941.4	3,948.7	3,939.7	17.9	0.0	-158.00	-217.9	90.1	640.8	624.5	16.29	39.330		
4,100.0	4,039.3	4,046.9	4,037.6	18.4	0.0	-157.93	-226.1	90.6	659.6	642.9	16.68	39.554		
4,200.0	4,137.3	4,145.1	4,135.4	18.9	0.0	-157.86	-234.2	91.2	678.4	661.3	17.06	39.765		
4,300.0	4,235.3	4,243.3	4,233.3	19.4	0.0	-157.79	-242.4	91.8	697.2	679.7	17.45	39.964		
4,400.0	4,333.3	4,341.5	4,331.2	19.9	0.0	-157.73	-250.5	92.3	716.0	698.2	17.83	40.153		
4,500.0	4,431.3	4,439.7	4,429.1	20.4	0.0	-157.67	-258.7	92.9	734.8	716.6	18.22	40.333		
4,600.0	4,529.3	4,538.0	4,526.9	20.9	0.0	-157.62	-266.8	93.5	753.6	735.0	18.61	40.503		
4,700.0	4,627.3	4,636.2	4,624.8	21.4	0.0	-157.56	-275.0	94.0	772.4	753.4	18.99	40.665		
4,800.0	4,725.3	4,734.4	4,722.7	21.8	0.0	-157.51	-283.1	94.6	791.2	771.9	19.38	40.819		
4,900.0	4,823.3	4,832.6	4,820.5	22.3	0.0	-157.46	-291.3	95.2	810.1	790.3	19.77	40.966		
5,000.0	4,921.2	4,930.8	4,918.4	22.8	0.0	-157.42	-299.4	95.7	828.9	808.7	20.16	41.105		
5,100.0	5,019.2	5,029.0	5,016.3	23.3	0.0	-157.37	-307.6	96.3	847.7	827.1	20.56	41.239		

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 19-18-1NXH
<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 19-18-1NXH	<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-													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	5,117.2	5,127.2	5,114.2	23.8	0.0	-157.33	-315.7	96.8	866.5	845.5	20.95	41.366		
5,300.0	5,215.2	5,225.4	5,212.0	24.3	0.0	-157.29	-323.9	97.4	885.3	864.0	21.34	41.488		
5,400.0	5,313.2	5,323.7	5,309.9	24.8	0.0	-157.25	-332.0	98.0	904.1	882.4	21.73	41.604		
5,500.0	5,411.2	5,421.9	5,407.8	25.3	0.0	-157.21	-340.2	98.5	922.9	900.8	22.12	41.716		
5,600.0	5,509.2	5,520.1	5,505.6	25.8	0.0	-157.18	-348.4	99.1	941.8	919.2	22.52	41.823		
5,700.0	5,607.2	5,618.3	5,603.5	26.3	0.0	-157.14	-356.5	99.7	960.6	937.7	22.91	41.925		
5,800.0	5,705.2	5,716.5	5,701.4	26.8	0.0	-157.11	-364.7	100.2	979.4	956.1	23.31	42.023		
5,900.0	5,803.2	5,814.7	5,799.3	27.3	0.0	-157.08	-372.8	100.8	998.2	974.5	23.70	42.118		
6,000.0	5,901.1	5,912.9	5,897.1	27.8	0.0	-157.05	-381.0	101.4	1,017.0	992.9	24.10	42.208		
6,100.0	5,999.1	6,011.1	5,995.0	28.3	0.0	-157.02	-389.1	101.9	1,035.8	1,011.4	24.49	42.295		
6,200.0	6,097.1	6,109.3	6,092.9	28.8	0.0	-156.99	-397.3	102.5	1,054.7	1,029.8	24.89	42.379		
6,300.0	6,195.1	6,207.6	6,190.7	29.3	0.0	-156.96	-405.4	103.0	1,073.5	1,048.2	25.28	42.460		
6,400.0	6,293.1	6,305.8	6,288.6	29.8	0.0	-156.94	-413.6	103.6	1,092.3	1,066.6	25.68	42.537		
6,500.0	6,391.1	6,404.0	6,386.5	30.3	0.0	-156.91	-421.7	104.2	1,111.1	1,085.0	26.08	42.612		
6,600.0	6,489.1	6,502.2	6,484.4	30.8	0.0	-156.89	-429.9	104.7	1,129.9	1,103.5	26.47	42.684		
6,700.0	6,587.1	6,600.4	6,582.2	31.3	0.0	-156.86	-438.0	105.3	1,148.8	1,121.9	26.87	42.754		
6,800.0	6,685.1	6,698.6	6,680.1	31.8	0.0	-166.99	-446.2	105.9	1,167.6	1,140.3	27.26	42.829		
6,900.0	6,783.1	6,795.9	6,777.0	32.3	0.0	143.90	-454.3	106.4	1,186.4	1,158.8	27.64	42.926		
7,000.0	6,878.9	6,890.5	6,871.4	32.8	0.0	120.28	-461.8	107.0	1,205.4	1,177.4	28.00	43.052		
7,100.0	6,969.6	6,991.0	6,971.6	33.2	0.0	110.23	-457.8	107.4	1,224.5	1,196.2	28.32	43.242		
7,200.0	7,052.3	7,099.0	7,076.9	33.5	0.0	105.10	-434.1	107.8	1,243.1	1,214.5	28.57	43.504		
7,300.0	7,124.6	7,216.2	7,183.8	33.7	0.0	102.22	-386.7	107.9	1,260.5	1,231.7	28.76	43.825		
7,400.0	7,184.2	7,344.0	7,286.7	33.8	0.0	100.55	-311.4	107.8	1,275.8	1,246.9	28.88	44.174		
7,500.0	7,229.4	7,482.7	7,376.5	33.9	0.0	99.62	-206.2	107.4	1,288.2	1,259.2	28.96	44.482		
7,600.0	7,258.8	7,631.2	7,441.8	33.9	0.0	99.13	-73.2	106.6	1,296.8	1,267.7	29.06	44.627		
7,700.0	7,271.5	7,786.1	7,471.1	33.9	0.0	98.88	78.4	105.5	1,300.9	1,271.7	29.25	44.722		
7,800.0	7,272.0	7,897.7	7,472.0	33.9	0.0	98.84	189.9	104.6	1,301.7	1,272.2	29.57	44.025		
7,900.0	7,272.0	7,997.6	7,472.0	34.0	0.0	98.83	289.9	103.8	1,302.4	1,272.4	29.99	43.432		
8,000.0	7,272.0	8,097.6	7,472.0	34.3	0.0	98.83	389.9	103.0	1,303.1	1,272.6	30.50	42.721		
8,100.0	7,272.0	8,197.6	7,472.0	34.6	0.0	98.82	489.9	102.1	1,303.8	1,272.7	31.11	41.912		
8,200.0	7,272.0	8,297.6	7,472.0	35.0	0.0	98.82	589.9	101.3	1,304.6	1,272.8	31.80	41.023		
8,300.0	7,272.0	8,397.6	7,472.0	35.5	0.0	98.81	689.9	100.5	1,305.3	1,272.7	32.57	40.075		
8,400.0	7,272.0	8,497.6	7,472.0	36.2	0.0	98.81	789.9	99.7	1,306.0	1,272.6	33.42	39.083		
8,500.0	7,272.0	8,597.6	7,472.0	36.9	0.0	98.80	889.9	98.8	1,306.7	1,272.4	34.33	38.064		
8,600.0	7,272.0	8,697.6	7,472.0	37.7	0.0	98.80	989.9	98.0	1,307.4	1,272.1	35.31	37.031		
8,700.0	7,272.0	8,797.6	7,472.0	38.7	0.0	98.79	1,089.9	97.2	1,308.1	1,271.8	36.34	35.996		
8,800.0	7,272.0	8,897.6	7,472.0	39.7	0.0	98.79	1,189.9	96.4	1,308.8	1,271.4	37.43	34.968		
8,900.0	7,272.0	8,997.6	7,472.0	40.7	0.0	98.79	1,289.9	95.5	1,309.5	1,270.9	38.57	33.956		
9,000.0	7,272.0	9,097.6	7,472.0	41.8	0.0	98.78	1,389.9	94.7	1,310.2	1,270.5	39.75	32.964		
9,100.0	7,272.0	9,197.6	7,472.0	43.0	0.0	98.78	1,489.9	93.9	1,310.9	1,270.0	40.97	31.998		
9,200.0	7,272.0	9,297.6	7,472.0	44.2	0.0	98.77	1,589.9	93.1	1,311.6	1,269.4	42.23	31.060		
9,300.0	7,272.0	9,397.6	7,472.0	45.4	0.0	98.77	1,689.9	92.2	1,312.3	1,268.8	43.52	30.153		
9,400.0	7,272.0	9,497.6	7,472.0	46.7	0.0	98.76	1,789.8	91.4	1,313.1	1,268.2	44.85	29.278		
9,500.0	7,272.0	9,597.6	7,472.0	48.0	0.0	98.76	1,889.8	90.6	1,313.8	1,267.6	46.20	28.436		
9,600.0	7,272.0	9,697.6	7,472.0	49.3	0.0	98.75	1,989.8	89.7	1,314.5	1,266.9	47.58	27.626		
9,700.0	7,272.0	9,797.6	7,472.0	50.7	0.0	98.75	2,089.8	88.9	1,315.2	1,266.2	48.98	26.849		
9,800.0	7,272.0	9,897.6	7,472.0	52.1	0.0	98.74	2,189.8	88.1	1,315.9	1,265.5	50.41	26.104		
9,900.0	7,272.0	9,997.6	7,472.0	53.5	0.0	98.74	2,289.8	87.3	1,316.6	1,264.7	51.85	25.390		
10,000.0	7,272.0	10,097.6	7,472.0	54.9	0.0	98.73	2,389.8	86.4	1,317.3	1,264.0	53.32	24.707		
10,100.0	7,272.0	10,197.6	7,472.0	56.4	0.0	98.73	2,489.8	85.6	1,318.0	1,263.2	54.80	24.052		
10,200.0	7,272.0	10,297.6	7,472.0	57.9	0.0	98.72	2,589.8	84.8	1,318.7	1,262.4	56.29	23.426		
10,300.0	7,272.0	10,397.6	7,472.0	59.3	0.0	98.72	2,689.8	84.0	1,319.4	1,261.6	57.80	22.826		

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 19-18-1NXH
<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 19-18-1NXH	<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-													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	7,272.0	10,497.6	7,472.0	60.8	0.0	98.71	2,789.8	83.1	1,320.1	1,260.8	59.33	22.252		
10,500.0	7,272.0	10,597.6	7,472.0	62.4	0.0	98.71	2,889.8	82.3	1,320.8	1,260.0	60.86	21.702		
10,600.0	7,272.0	10,697.6	7,472.0	63.9	0.0	98.70	2,989.8	81.5	1,321.5	1,259.1	62.41	21.175		
10,700.0	7,272.0	10,797.6	7,472.0	65.4	0.0	98.70	3,089.8	80.7	1,322.3	1,258.3	63.97	20.670		
10,800.0	7,272.0	10,897.6	7,472.0	67.0	0.0	98.70	3,189.8	79.8	1,323.0	1,257.4	65.54	20.187		
10,900.0	7,272.0	10,997.6	7,472.0	68.5	0.0	98.69	3,289.8	79.0	1,323.7	1,256.6	67.11	19.723		
11,000.0	7,272.0	11,097.6	7,472.0	70.1	0.0	98.69	3,389.8	78.2	1,324.4	1,255.7	68.70	19.278		
11,100.0	7,272.0	11,197.6	7,472.0	71.7	0.0	98.68	3,489.7	77.3	1,325.1	1,254.8	70.29	18.851		
11,200.0	7,272.0	11,297.6	7,472.0	73.3	0.0	98.68	3,589.7	76.5	1,325.8	1,253.9	71.89	18.441		
11,300.0	7,272.0	11,397.6	7,472.0	74.9	0.0	98.67	3,689.7	75.7	1,326.5	1,253.0	73.50	18.047		
11,400.0	7,272.0	11,497.6	7,472.0	76.5	0.0	98.67	3,789.7	74.9	1,327.2	1,252.1	75.12	17.669		
11,500.0	7,272.0	11,597.6	7,472.0	78.1	0.0	98.66	3,889.7	74.0	1,327.9	1,251.2	76.74	17.305		
11,600.0	7,272.0	11,697.6	7,472.0	79.7	0.0	98.66	3,989.7	73.2	1,328.6	1,250.3	78.36	16.955		
11,700.0	7,272.0	11,797.6	7,472.0	81.3	0.0	98.65	4,089.7	72.4	1,329.3	1,249.3	79.99	16.618		
11,800.0	7,272.0	11,897.5	7,472.0	83.0	0.0	98.65	4,189.7	71.6	1,330.0	1,248.4	81.63	16.294		
11,900.0	7,272.0	11,997.5	7,472.0	84.6	0.0	98.64	4,289.7	70.7	1,330.7	1,247.5	83.27	15.981		
12,000.0	7,272.0	12,097.5	7,472.0	86.3	0.0	98.64	4,389.7	69.9	1,331.5	1,246.5	84.92	15.680		
12,100.0	7,272.0	12,197.5	7,472.0	87.9	0.0	98.63	4,489.7	69.1	1,332.2	1,245.6	86.57	15.389		
12,200.0	7,272.0	12,297.5	7,472.0	89.6	0.0	98.63	4,589.7	68.3	1,332.9	1,244.7	88.22	15.109		
12,300.0	7,272.0	12,397.5	7,472.0	91.2	0.0	98.63	4,689.7	67.4	1,333.6	1,243.7	89.88	14.838		
12,400.0	7,272.0	12,497.5	7,472.0	92.9	0.0	98.62	4,789.7	66.6	1,334.3	1,242.7	91.54	14.576		
12,500.0	7,272.0	12,597.5	7,472.0	94.5	0.0	98.62	4,889.7	65.8	1,335.0	1,241.8	93.20	14.324		
12,600.0	7,272.0	12,697.5	7,472.0	96.2	0.0	98.61	4,989.7	64.9	1,335.7	1,240.8	94.87	14.079		
12,700.0	7,272.0	12,797.5	7,472.0	97.9	0.0	98.61	5,089.7	64.1	1,336.4	1,239.9	96.54	13.843		
12,800.0	7,272.0	12,897.5	7,472.0	99.5	0.0	98.60	5,189.6	63.3	1,337.1	1,238.9	98.22	13.614		
12,900.0	7,272.0	12,997.5	7,472.0	101.2	0.0	98.60	5,289.6	62.5	1,337.8	1,237.9	99.89	13.393		
13,000.0	7,272.0	13,097.5	7,472.0	102.9	0.0	98.59	5,389.6	61.6	1,338.5	1,237.0	101.57	13.178		
13,100.0	7,272.0	13,197.5	7,472.0	104.6	0.0	98.59	5,489.6	60.8	1,339.2	1,236.0	103.25	12.971		
13,200.0	7,272.0	13,297.5	7,472.0	106.3	0.0	98.58	5,589.6	60.0	1,340.0	1,235.0	104.94	12.769		
13,300.0	7,272.0	13,397.5	7,472.0	108.0	0.0	98.58	5,689.6	59.2	1,340.7	1,234.0	106.62	12.574		
13,400.0	7,272.0	13,497.5	7,472.0	109.6	0.0	98.58	5,789.6	58.3	1,341.4	1,233.1	108.31	12.385		
13,500.0	7,272.0	13,597.5	7,472.0	111.3	0.0	98.57	5,889.6	57.5	1,342.1	1,232.1	110.00	12.201		
13,600.0	7,272.0	13,697.5	7,472.0	113.0	0.0	98.57	5,989.6	56.7	1,342.8	1,231.1	111.69	12.022		
13,700.0	7,272.0	13,797.5	7,472.0	114.7	0.0	98.56	6,089.6	55.8	1,343.5	1,230.1	113.39	11.849		
13,800.0	7,272.0	13,897.5	7,472.0	116.4	0.0	98.56	6,189.6	55.0	1,344.2	1,229.1	115.08	11.680		
13,900.0	7,272.0	13,997.5	7,472.0	118.1	0.0	98.55	6,289.6	54.2	1,344.9	1,228.1	116.78	11.517		
14,000.0	7,272.0	14,097.5	7,472.0	119.8	0.0	98.55	6,389.6	53.4	1,345.6	1,227.1	118.48	11.357		
14,100.0	7,272.0	14,197.5	7,472.0	121.5	0.0	98.54	6,489.6	52.5	1,346.3	1,226.1	120.18	11.203		
14,200.0	7,272.0	14,297.5	7,472.0	123.2	0.0	98.54	6,589.6	51.7	1,347.0	1,225.2	121.88	11.052		
14,300.0	7,272.0	14,397.5	7,472.0	125.0	0.0	98.53	6,689.6	50.9	1,347.7	1,224.2	123.59	10.905		
14,400.0	7,272.0	14,497.5	7,472.0	126.7	0.0	98.53	6,789.6	50.1	1,348.5	1,223.2	125.29	10.763		
14,500.0	7,272.0	14,597.5	7,472.0	128.4	0.0	98.53	6,889.5	49.2	1,349.2	1,222.2	127.00	10.623		
14,600.0	7,272.0	14,697.5	7,472.0	130.1	0.0	98.52	6,989.5	48.4	1,349.9	1,221.2	128.71	10.488		
14,700.0	7,272.0	14,797.5	7,472.0	131.8	0.0	98.52	7,089.5	47.6	1,350.6	1,220.2	130.41	10.356		
14,800.0	7,272.0	14,897.5	7,472.0	133.5	0.0	98.51	7,189.5	46.8	1,351.3	1,219.2	132.13	10.227		
14,900.0	7,272.0	14,997.5	7,472.0	135.2	0.0	98.51	7,289.5	45.9	1,352.0	1,218.2	133.84	10.102		
15,000.0	7,272.0	15,097.5	7,472.0	137.0	0.0	98.50	7,389.5	45.1	1,352.7	1,217.2	135.55	9.979		
15,100.0	7,272.0	15,197.5	7,472.0	138.7	0.0	98.50	7,489.5	44.3	1,353.4	1,216.1	137.26	9.860		
15,200.0	7,272.0	15,297.5	7,472.0	140.4	0.0	98.49	7,589.5	43.4	1,354.1	1,215.1	138.98	9.743		
15,300.0	7,272.0	15,397.5	7,472.0	142.1	0.0	98.49	7,689.5	42.6	1,354.8	1,214.1	140.69	9.630		
15,400.0	7,272.0	15,497.5	7,472.0	143.8	0.0	98.48	7,789.5	41.8	1,355.5	1,213.1	142.41	9.519		
15,500.0	7,272.0	15,597.5	7,472.0	145.6	0.0	98.48	7,889.5	41.0	1,356.2	1,212.1	144.13	9.410		

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 19-18-1NXH
<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 19-18-1NXH	<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-												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	
15,600.0	7,272.0	15,697.5	7,472.0	147.3	0.0	98.48	7,989.5	40.1	1,357.0	1,211.1	145.84	9.304	
15,700.0	7,272.0	15,797.4	7,472.0	149.0	0.0	98.47	8,089.5	39.3	1,357.7	1,210.1	147.56	9.200	
15,800.0	7,272.0	15,897.4	7,472.0	150.7	0.0	98.47	8,189.5	38.5	1,358.4	1,209.1	149.28	9.099	
15,900.0	7,272.0	15,997.4	7,472.0	152.5	0.0	98.46	8,289.5	37.7	1,359.1	1,208.1	151.00	9.000	
16,000.0	7,272.0	16,097.4	7,472.0	154.2	0.0	98.46	8,389.5	36.8	1,359.8	1,207.1	152.73	8.903	
16,100.0	7,272.0	16,197.4	7,472.0	155.9	0.0	98.45	8,489.4	36.0	1,360.5	1,206.0	154.45	8.809	
16,200.0	7,272.0	16,297.4	7,472.0	157.7	0.0	98.45	8,589.4	35.2	1,361.2	1,205.0	156.17	8.716	
16,300.0	7,272.0	16,397.4	7,472.0	159.4	0.0	98.44	8,689.4	34.4	1,361.9	1,204.0	157.90	8.625	
16,400.0	7,272.0	16,497.4	7,472.0	161.1	0.0	98.44	8,789.4	33.5	1,362.6	1,203.0	159.62	8.537	
16,500.0	7,272.0	16,597.4	7,472.0	162.9	0.0	98.44	8,889.4	32.7	1,363.3	1,202.0	161.34	8.450	
16,600.0	7,272.0	16,697.4	7,472.0	164.6	0.0	98.43	8,989.4	31.9	1,364.0	1,201.0	163.07	8.365	
16,700.0	7,272.0	16,797.4	7,472.0	166.3	0.0	98.43	9,089.4	31.0	1,364.7	1,199.9	164.80	8.281	
16,800.0	7,272.0	16,897.4	7,472.0	168.1	0.0	98.42	9,189.4	30.2	1,365.5	1,198.9	166.52	8.200	
16,900.0	7,272.0	16,997.4	7,472.0	169.8	0.0	98.42	9,289.4	29.4	1,366.2	1,197.9	168.25	8.120	
17,000.0	7,272.0	17,097.4	7,472.0	171.5	0.0	98.41	9,389.4	28.6	1,366.9	1,196.9	169.98	8.041	
17,100.0	7,272.0	17,197.4	7,472.0	173.3	0.0	98.41	9,489.4	27.7	1,367.6	1,195.9	171.71	7.965	
17,200.0	7,272.0	17,297.4	7,472.0	175.0	0.0	98.41	9,589.4	26.9	1,368.3	1,194.8	173.44	7.889	
17,270.0	7,272.0	17,367.4	7,472.0	176.2	0.0	98.40	9,659.4	26.3	1,368.8	1,194.1	174.65	7.837 SF	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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		
0.0	0.0	0.0	0.0	0.0	0.0	89.70	0.3	60.0	60.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.70	0.3	60.0	60.0	59.7	0.28	216.498		
200.0	200.0	200.0	200.0	1.0	0.0	89.70	0.3	60.0	60.0	59.2	0.80	75.170		
300.0	300.0	300.0	300.0	1.5	0.0	89.70	0.3	60.0	60.0	58.8	1.22	48.981		
400.0	400.0	400.0	400.0	1.9	0.0	89.70	0.3	60.0	60.0	58.4	1.62	37.059		
500.0	500.0	500.0	500.0	2.3	0.0	89.70	0.3	60.0	60.0	58.0	2.00	30.003		
600.0	600.0	600.0	600.0	2.7	0.0	89.70	0.3	60.0	60.0	57.6	2.37	25.278		
700.0	700.0	700.0	700.0	3.1	0.0	89.70	0.3	60.0	60.0	57.2	2.74	21.870	CC, ES	
800.0	800.0	800.0	800.0	3.4	0.0	-157.17	0.3	60.0	61.6	58.4	3.17	19.404		
900.0	899.8	899.8	899.8	4.3	0.0	-158.88	0.3	60.0	66.4	62.2	4.22	15.734		
1,000.0	999.5	999.5	999.5	5.2	0.0	-161.24	0.3	60.0	74.6	69.5	5.10	14.648		
1,100.0	1,098.7	1,098.7	1,098.7	5.9	0.0	-163.78	0.3	60.0	86.3	80.4	5.86	14.715		
1,200.0	1,197.5	1,199.3	1,199.3	6.6	0.0	-165.38	-1.3	59.3	100.5	93.9	6.55	15.330		
1,300.0	1,295.6	1,300.1	1,299.9	7.0	0.0	-165.51	-6.1	57.3	116.2	109.2	6.97	16.656		
1,400.0	1,393.6	1,400.4	1,399.9	7.2	0.0	-164.52	-14.0	54.0	131.1	123.8	7.22	18.156		
1,500.0	1,491.6	1,499.3	1,498.3	7.5	0.0	-163.51	-22.4	50.5	145.6	138.1	7.50	19.424		
1,600.0	1,589.6	1,598.2	1,596.8	7.8	0.0	-162.68	-30.9	47.1	160.3	152.5	7.79	20.574		
1,700.0	1,687.6	1,697.1	1,695.3	8.1	0.0	-161.98	-39.3	43.6	174.9	166.8	8.09	21.616		
1,800.0	1,785.6	1,796.0	1,793.8	8.4	0.0	-161.40	-47.7	40.1	189.6	181.2	8.40	22.559		
1,900.0	1,883.6	1,894.9	1,892.3	8.7	0.0	-160.90	-56.1	36.6	204.3	195.5	8.72	23.414		
2,000.0	1,981.6	1,993.8	1,990.8	9.0	0.0	-160.47	-64.6	33.1	219.0	209.9	9.05	24.190		
2,100.0	2,079.6	2,092.7	2,089.2	9.4	0.0	-160.09	-73.0	29.6	233.7	224.3	9.39	24.895		
2,200.0	2,177.5	2,191.6	2,187.7	9.7	0.0	-159.75	-81.4	26.1	248.4	238.6	9.73	25.537		
2,300.0	2,275.5	2,290.5	2,286.2	10.1	0.0	-159.46	-89.8	22.6	263.1	253.0	10.07	26.122		
2,400.0	2,373.5	2,389.4	2,384.7	10.5	0.0	-159.19	-98.3	19.1	277.8	267.4	10.42	26.658		
2,500.0	2,471.5	2,488.3	2,483.2	10.9	0.0	-158.95	-106.7	15.6	292.6	281.8	10.78	27.148		
2,600.0	2,569.5	2,587.2	2,581.6	11.3	0.0	-158.74	-115.1	12.1	307.3	296.2	11.13	27.598		
2,700.0	2,667.5	2,686.1	2,680.1	11.7	0.0	-158.54	-123.5	8.6	322.0	310.5	11.50	28.012		
2,800.0	2,765.5	2,785.0	2,778.6	12.2	0.0	-158.36	-132.0	5.1	336.8	324.9	11.86	28.393		
2,900.0	2,863.5	2,883.9	2,877.1	12.6	0.0	-158.20	-140.4	1.7	351.5	339.3	12.23	28.746		
3,000.0	2,961.5	2,982.8	2,975.6	13.1	0.0	-158.05	-148.8	-1.8	366.3	353.7	12.60	29.072		
3,100.0	3,059.5	3,081.7	3,074.0	13.6	0.0	-157.91	-157.2	-5.3	381.0	368.1	12.97	29.374		
3,200.0	3,157.4	3,180.6	3,172.5	14.0	0.0	-157.78	-165.7	-8.8	395.8	382.5	13.35	29.655		
3,300.0	3,255.4	3,279.5	3,271.0	14.5	0.0	-157.66	-174.1	-12.3	410.6	396.8	13.72	29.916		
3,400.0	3,353.4	3,378.4	3,369.5	15.0	0.0	-157.55	-182.5	-15.8	425.3	411.2	14.10	30.160		
3,500.0	3,451.4	3,477.3	3,468.0	15.5	0.0	-157.44	-190.9	-19.3	440.1	425.6	14.48	30.387		
3,600.0	3,549.4	3,576.2	3,566.4	16.0	0.0	-157.35	-199.3	-22.8	454.8	440.0	14.86	30.600		
3,700.0	3,647.4	3,675.1	3,664.9	16.4	0.0	-157.26	-207.8	-26.3	469.6	454.4	15.25	30.800		
3,800.0	3,745.4	3,774.0	3,763.4	16.9	0.0	-157.17	-216.2	-29.8	484.4	468.7	15.63	30.987		
3,900.0	3,843.4	3,872.9	3,861.9	17.4	0.0	-157.09	-224.6	-33.3	499.1	483.1	16.02	31.163		
4,000.0	3,941.4	3,971.8	3,960.4	17.9	0.0	-157.02	-233.0	-36.8	513.9	497.5	16.40	31.329		
4,100.0	4,039.3	4,070.7	4,058.8	18.4	0.0	-156.94	-241.5	-40.2	528.7	511.9	16.79	31.485		
4,200.0	4,137.3	4,169.6	4,157.3	18.9	0.0	-156.88	-249.9	-43.7	543.4	526.3	17.18	31.632		
4,300.0	4,235.3	4,268.5	4,255.8	19.4	0.0	-156.81	-258.3	-47.2	558.2	540.6	17.57	31.771		
4,400.0	4,333.3	4,367.4	4,354.3	19.9	0.0	-156.75	-266.7	-50.7	573.0	555.0	17.96	31.903		
4,500.0	4,431.3	4,466.3	4,452.8	20.4	0.0	-156.70	-275.2	-54.2	587.7	569.4	18.35	32.028		
4,600.0	4,529.3	4,565.2	4,551.2	20.9	0.0	-156.64	-283.6	-57.7	602.5	583.8	18.74	32.146		
4,700.0	4,627.3	4,664.1	4,649.7	21.4	0.0	-156.59	-292.0	-61.2	617.3	598.2	19.14	32.258		
4,800.0	4,725.3	4,763.0	4,748.2	21.8	0.0	-156.54	-300.4	-64.7	632.1	612.5	19.53	32.365		
4,900.0	4,823.3	4,862.0	4,846.7	22.3	0.0	-156.49	-308.9	-68.2	646.8	626.9	19.92	32.467		
5,000.0	4,921.2	4,960.9	4,945.2	22.8	0.0	-156.45	-317.3	-71.7	661.6	641.3	20.32	32.563		
5,100.0	5,019.2	5,059.8	5,043.6	23.3	0.0	-156.40	-325.7	-75.2	676.4	655.7	20.71	32.656		

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 19-18-1NXH
<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 19-18-1NXH	<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	5,117.2	5,158.7	5,142.1	23.8	0.0	-156.36	-334.1	-78.7	691.1	670.0	21.11	32.744		
5,300.0	5,215.2	5,257.6	5,240.6	24.3	0.0	-156.32	-342.6	-82.1	705.9	684.4	21.50	32.827		
5,400.0	5,313.2	5,356.5	5,339.1	24.8	0.0	-156.28	-351.0	-85.6	720.7	698.8	21.90	32.908		
5,500.0	5,411.2	5,455.4	5,437.6	25.3	0.0	-156.25	-359.4	-89.1	735.5	713.2	22.30	32.984		
5,600.0	5,509.2	5,554.3	5,536.0	25.8	0.0	-156.21	-367.8	-92.6	750.2	727.5	22.69	33.058		
5,700.0	5,607.2	5,653.2	5,634.5	26.3	0.0	-156.18	-376.3	-96.1	765.0	741.9	23.09	33.128		
5,800.0	5,705.2	5,752.1	5,733.0	26.8	0.0	-156.14	-384.7	-99.6	779.8	756.3	23.49	33.196		
5,900.0	5,803.2	5,851.0	5,831.5	27.3	0.0	-156.11	-393.1	-103.1	794.6	770.7	23.89	33.260		
6,000.0	5,901.1	5,949.9	5,930.0	27.8	0.0	-156.08	-401.5	-106.6	809.3	785.1	24.29	33.323		
6,100.0	5,999.1	6,048.8	6,028.4	28.3	0.0	-156.05	-410.0	-110.1	824.1	799.4	24.69	33.382		
6,200.0	6,097.1	6,147.7	6,126.9	28.8	0.0	-156.03	-418.4	-113.6	838.9	813.8	25.09	33.440		
6,300.0	6,195.1	6,246.6	6,225.4	29.3	0.0	-156.00	-426.8	-117.1	853.7	828.2	25.49	33.495		
6,400.0	6,293.1	6,345.5	6,323.9	29.8	0.0	-155.97	-435.2	-120.6	868.4	842.6	25.89	33.548		
6,500.0	6,391.1	6,444.4	6,422.4	30.3	0.0	-155.95	-443.7	-124.0	883.2	856.9	26.29	33.599		
6,600.0	6,489.1	6,543.3	6,520.8	30.8	0.0	-155.92	-452.1	-127.5	898.0	871.3	26.69	33.648		
6,700.0	6,587.1	6,642.2	6,619.3	31.3	0.0	-155.90	-460.5	-131.0	912.8	885.7	27.09	33.696		
6,800.0	6,685.1	6,741.8	6,718.8	31.8	0.0	-166.36	-462.2	-134.6	927.5	900.1	27.45	33.790		
6,900.0	6,783.1	6,839.7	6,815.3	32.3	0.0	143.67	-447.3	-138.2	942.4	914.7	27.71	34.007		
7,000.0	6,878.9	6,935.8	6,906.3	32.8	0.0	118.54	-416.7	-141.8	957.2	929.3	27.90	34.308		
7,100.0	6,969.6	7,030.6	6,989.8	33.2	0.0	106.81	-372.2	-145.2	971.4	943.4	28.02	34.664		
7,200.0	7,052.3	7,124.3	7,063.9	33.5	0.0	100.10	-315.3	-148.3	984.6	956.5	28.11	35.028		
7,300.0	7,124.6	7,217.0	7,127.3	33.7	0.0	95.74	-247.7	-151.2	996.3	968.1	28.18	35.353		
7,400.0	7,184.2	7,309.1	7,178.6	33.8	0.0	92.76	-171.5	-153.6	1,006.1	977.8	28.26	35.598		
7,500.0	7,229.4	7,400.0	7,216.6	33.9	0.0	90.74	-89.0	-155.7	1,013.8	985.4	28.38	35.722		
7,600.0	7,258.8	7,491.9	7,241.4	33.9	0.0	89.49	-0.6	-157.3	1,019.0	990.5	28.54	35.701		
7,700.0	7,271.5	7,582.9	7,251.7	33.9	0.0	88.92	89.7	-158.5	1,021.8	993.0	28.77	35.519		
7,800.0	7,272.0	7,681.0	7,252.0	33.9	0.0	88.88	187.8	-159.3	1,022.6	993.5	29.05	35.196		
7,900.0	7,272.0	7,781.0	7,252.0	34.0	0.0	88.88	287.8	-160.1	1,023.3	993.8	29.45	34.749		
8,000.0	7,272.0	7,881.0	7,252.0	34.3	0.0	88.88	387.8	-160.9	1,024.0	994.0	29.94	34.199		
8,100.0	7,272.0	7,981.0	7,252.0	34.6	0.0	88.88	487.7	-161.8	1,024.7	994.2	30.53	33.563		
8,200.0	7,272.0	8,081.0	7,252.0	35.0	0.0	88.88	587.7	-162.6	1,025.4	994.2	31.21	32.856		
8,300.0	7,272.0	8,181.0	7,252.0	35.5	0.0	88.88	687.7	-163.4	1,026.1	994.2	31.97	32.096		
8,400.0	7,272.0	8,281.0	7,252.0	36.2	0.0	88.88	787.7	-164.2	1,026.8	994.0	32.81	31.296		
8,500.0	7,272.0	8,381.0	7,252.0	36.9	0.0	88.88	887.7	-165.1	1,027.6	993.8	33.72	30.472		
8,600.0	7,272.0	8,481.0	7,252.0	37.7	0.0	88.89	987.7	-165.9	1,028.3	993.6	34.70	29.634		
8,700.0	7,272.0	8,581.0	7,252.0	38.7	0.0	88.89	1,087.7	-166.7	1,029.0	993.3	35.74	28.793		
8,800.0	7,272.0	8,681.0	7,252.0	39.7	0.0	88.89	1,187.7	-167.5	1,029.7	992.9	36.83	27.957		
8,900.0	7,272.0	8,781.0	7,252.0	40.7	0.0	88.89	1,287.7	-168.4	1,030.4	992.4	37.98	27.133		
9,000.0	7,272.0	8,881.0	7,252.0	41.8	0.0	88.89	1,387.7	-169.2	1,031.1	992.0	39.17	26.326		
9,100.0	7,272.0	8,981.0	7,252.0	43.0	0.0	88.89	1,487.7	-170.0	1,031.9	991.5	40.40	25.540		
9,200.0	7,272.0	9,081.0	7,252.0	44.2	0.0	88.89	1,587.7	-170.9	1,032.6	990.9	41.67	24.778		
9,300.0	7,272.0	9,180.9	7,252.0	45.4	0.0	88.89	1,687.7	-171.7	1,033.3	990.3	42.98	24.041		
9,400.0	7,272.0	9,280.9	7,252.0	46.7	0.0	88.89	1,787.7	-172.5	1,034.0	989.7	44.32	23.331		
9,500.0	7,272.0	9,380.9	7,252.0	48.0	0.0	88.89	1,887.7	-173.3	1,034.7	989.0	45.69	22.648		
9,600.0	7,272.0	9,480.9	7,252.0	49.3	0.0	88.89	1,987.7	-174.2	1,035.4	988.4	47.08	21.992		
9,700.0	7,272.0	9,580.9	7,252.0	50.7	0.0	88.89	2,087.7	-175.0	1,036.2	987.7	48.50	21.363		
9,800.0	7,272.0	9,680.9	7,252.0	52.1	0.0	88.89	2,187.6	-175.8	1,036.9	986.9	49.94	20.761		
9,900.0	7,272.0	9,780.9	7,252.0	53.5	0.0	88.90	2,287.6	-176.6	1,037.6	986.2	51.40	20.185		
10,000.0	7,272.0	9,880.9	7,252.0	54.9	0.0	88.90	2,387.6	-177.5	1,038.3	985.4	52.89	19.633		
10,100.0	7,272.0	9,980.9	7,252.0	56.4	0.0	88.90	2,487.6	-178.3	1,039.0	984.6	54.38	19.105		
10,200.0	7,272.0	10,080.9	7,252.0	57.9	0.0	88.90	2,587.6	-179.1	1,039.7	983.8	55.90	18.601		
10,300.0	7,272.0	10,180.9	7,252.0	59.3	0.0	88.90	2,687.6	-180.0	1,040.4	983.0	57.42	18.118		

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 19-18-1NXH
<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 19-18-1NXH	<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)						
10,400.0	7,272.0	10,280.9	7,252.0	60.8	0.0	88.90	2,787.6	-180.8	1,041.2	982.2	58.97	17.657		
10,500.0	7,272.0	10,380.9	7,252.0	62.4	0.0	88.90	2,887.6	-181.6	1,041.9	981.4	60.52	17.215		
10,600.0	7,272.0	10,480.9	7,252.0	63.9	0.0	88.90	2,987.6	-182.4	1,042.6	980.5	62.09	16.793		
10,700.0	7,272.0	10,580.9	7,252.0	65.4	0.0	88.90	3,087.6	-183.3	1,043.3	979.6	63.66	16.388		
10,800.0	7,272.0	10,680.9	7,252.0	67.0	0.0	88.90	3,187.6	-184.1	1,044.0	978.8	65.25	16.001		
10,900.0	7,272.0	10,780.9	7,252.0	68.5	0.0	88.90	3,287.6	-184.9	1,044.7	977.9	66.84	15.630		
11,000.0	7,272.0	10,880.9	7,252.0	70.1	0.0	88.90	3,387.6	-185.7	1,045.5	977.0	68.45	15.274		
11,100.0	7,272.0	10,980.9	7,252.0	71.7	0.0	88.90	3,487.6	-186.6	1,046.2	976.1	70.06	14.933		
11,200.0	7,272.0	11,080.9	7,252.0	73.3	0.0	88.91	3,587.6	-187.4	1,046.9	975.2	71.68	14.606		
11,300.0	7,272.0	11,180.9	7,252.0	74.9	0.0	88.91	3,687.6	-188.2	1,047.6	974.3	73.30	14.292		
11,400.0	7,272.0	11,280.9	7,252.0	76.5	0.0	88.91	3,787.6	-189.1	1,048.3	973.4	74.93	13.990		
11,500.0	7,272.0	11,380.9	7,252.0	78.1	0.0	88.91	3,887.5	-189.9	1,049.0	972.5	76.57	13.700		
11,600.0	7,272.0	11,480.9	7,252.0	79.7	0.0	88.91	3,987.5	-190.7	1,049.7	971.5	78.21	13.421		
11,700.0	7,272.0	11,580.9	7,252.0	81.3	0.0	88.91	4,087.5	-191.5	1,050.5	970.6	79.86	13.153		
11,800.0	7,272.0	11,680.9	7,252.0	83.0	0.0	88.91	4,187.5	-192.4	1,051.2	969.7	81.52	12.895		
11,900.0	7,272.0	11,780.9	7,252.0	84.6	0.0	88.91	4,287.5	-193.2	1,051.9	968.7	83.18	12.647		
12,000.0	7,272.0	11,880.9	7,252.0	86.3	0.0	88.91	4,387.5	-194.0	1,052.6	967.8	84.84	12.407		
12,100.0	7,272.0	11,980.9	7,252.0	87.9	0.0	88.91	4,487.5	-194.8	1,053.3	966.8	86.51	12.176		
12,200.0	7,272.0	12,080.9	7,252.0	89.6	0.0	88.91	4,587.5	-195.7	1,054.0	965.9	88.18	11.954		
12,300.0	7,272.0	12,180.9	7,252.0	91.2	0.0	88.91	4,687.5	-196.5	1,054.8	964.9	89.85	11.739		
12,400.0	7,272.0	12,280.9	7,252.0	92.9	0.0	88.91	4,787.5	-197.3	1,055.5	963.9	91.53	11.531		
12,500.0	7,272.0	12,380.9	7,252.0	94.5	0.0	88.91	4,887.5	-198.1	1,056.2	963.0	93.21	11.331		
12,600.0	7,272.0	12,480.9	7,252.0	96.2	0.0	88.92	4,987.5	-199.0	1,056.9	962.0	94.90	11.137		
12,700.0	7,272.0	12,580.9	7,252.0	97.9	0.0	88.92	5,087.5	-199.8	1,057.6	961.0	96.59	10.950		
12,800.0	7,272.0	12,680.9	7,252.0	99.5	0.0	88.92	5,187.5	-200.6	1,058.3	960.1	98.28	10.769		
12,900.0	7,272.0	12,780.9	7,252.0	101.2	0.0	88.92	5,287.5	-201.5	1,059.1	959.1	99.97	10.594		
13,000.0	7,272.0	12,880.9	7,252.0	102.9	0.0	88.92	5,387.5	-202.3	1,059.8	958.1	101.67	10.424		
13,100.0	7,272.0	12,980.9	7,252.0	104.6	0.0	88.92	5,487.4	-203.1	1,060.5	957.1	103.36	10.260		
13,200.0	7,272.0	13,080.8	7,252.0	106.3	0.0	88.92	5,587.4	-203.9	1,061.2	956.1	105.06	10.100		
13,300.0	7,272.0	13,180.8	7,252.0	108.0	0.0	88.92	5,687.4	-204.8	1,061.9	955.1	106.77	9.946		
13,400.0	7,272.0	13,280.8	7,252.0	109.6	0.0	88.92	5,787.4	-205.6	1,062.6	954.2	108.47	9.796		
13,500.0	7,272.0	13,380.8	7,252.0	111.3	0.0	88.92	5,887.4	-206.4	1,063.3	953.2	110.18	9.651		
13,600.0	7,272.0	13,480.8	7,252.0	113.0	0.0	88.92	5,987.4	-207.2	1,064.1	952.2	111.89	9.510		
13,700.0	7,272.0	13,580.8	7,252.0	114.7	0.0	88.92	6,087.4	-208.1	1,064.8	951.2	113.60	9.373		
13,800.0	7,272.0	13,680.8	7,252.0	116.4	0.0	88.92	6,187.4	-208.9	1,065.5	950.2	115.31	9.240		
13,900.0	7,272.0	13,780.8	7,252.0	118.1	0.0	88.93	6,287.4	-209.7	1,066.2	949.2	117.02	9.111		
14,000.0	7,272.0	13,880.8	7,252.0	119.8	0.0	88.93	6,387.4	-210.6	1,066.9	948.2	118.74	8.985		
14,100.0	7,272.0	13,980.8	7,252.0	121.5	0.0	88.93	6,487.4	-211.4	1,067.6	947.2	120.46	8.863		
14,200.0	7,272.0	14,080.8	7,252.0	123.2	0.0	88.93	6,587.4	-212.2	1,068.4	946.2	122.18	8.744		
14,300.0	7,272.0	14,180.8	7,252.0	125.0	0.0	88.93	6,687.4	-213.0	1,069.1	945.2	123.90	8.629		
14,400.0	7,272.0	14,280.8	7,252.0	126.7	0.0	88.93	6,787.4	-213.9	1,069.8	944.2	125.62	8.516		
14,500.0	7,272.0	14,380.8	7,252.0	128.4	0.0	88.93	6,887.4	-214.7	1,070.5	943.2	127.34	8.407		
14,600.0	7,272.0	14,480.8	7,252.0	130.1	0.0	88.93	6,987.4	-215.5	1,071.2	942.2	129.06	8.300		
14,700.0	7,272.0	14,580.8	7,252.0	131.8	0.0	88.93	7,087.4	-216.3	1,071.9	941.1	130.79	8.196		
14,800.0	7,272.0	14,680.8	7,252.0	133.5	0.0	88.93	7,187.3	-217.2	1,072.7	940.1	132.51	8.095		
14,900.0	7,272.0	14,780.8	7,252.0	135.2	0.0	88.93	7,287.3	-218.0	1,073.4	939.1	134.24	7.996		
15,000.0	7,272.0	14,880.8	7,252.0	137.0	0.0	88.93	7,387.3	-218.8	1,074.1	938.1	135.97	7.899		
15,100.0	7,272.0	14,980.8	7,252.0	138.7	0.0	88.93	7,487.3	-219.7	1,074.8	937.1	137.70	7.805		
15,200.0	7,272.0	15,080.8	7,252.0	140.4	0.0	88.93	7,587.3	-220.5	1,075.5	936.1	139.43	7.714		
15,300.0	7,272.0	15,180.8	7,252.0	142.1	0.0	88.94	7,687.3	-221.3	1,076.2	935.1	141.16	7.624		
15,400.0	7,272.0	15,280.8	7,252.0	143.8	0.0	88.94	7,787.3	-222.1	1,076.9	934.1	142.89	7.537		
15,500.0	7,272.0	15,380.8	7,252.0	145.6	0.0	88.94	7,887.3	-223.0	1,077.7	933.0	144.63	7.451		

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 19-18-1NXH
<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 19-18-1NXH	<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		
15,600.0	7,272.0	15,480.8	7,252.0	147.3	0.0	88.94	7,987.3	-223.8	1,078.4	932.0	146.36	7.368		
15,700.0	7,272.0	15,580.8	7,252.0	149.0	0.0	88.94	8,087.3	-224.6	1,079.1	931.0	148.09	7.287		
15,800.0	7,272.0	15,680.8	7,252.0	150.7	0.0	88.94	8,187.3	-225.4	1,079.8	930.0	149.83	7.207		
15,900.0	7,272.0	15,780.8	7,252.0	152.5	0.0	88.94	8,287.3	-226.3	1,080.5	929.0	151.57	7.129		
16,000.0	7,272.0	15,880.8	7,252.0	154.2	0.0	88.94	8,387.3	-227.1	1,081.2	927.9	153.30	7.053		
16,100.0	7,272.0	15,980.8	7,252.0	155.9	0.0	88.94	8,487.3	-227.9	1,082.0	926.9	155.04	6.979		
16,200.0	7,272.0	16,080.8	7,252.0	157.7	0.0	88.94	8,587.3	-228.8	1,082.7	925.9	156.78	6.906		
16,300.0	7,272.0	16,180.8	7,252.0	159.4	0.0	88.94	8,687.3	-229.6	1,083.4	924.9	158.52	6.835		
16,400.0	7,272.0	16,280.8	7,252.0	161.1	0.0	88.94	8,787.3	-230.4	1,084.1	923.8	160.26	6.765		
16,500.0	7,272.0	16,380.8	7,252.0	162.9	0.0	88.94	8,887.2	-231.2	1,084.8	922.8	162.00	6.697		
16,600.0	7,272.0	16,480.8	7,252.0	164.6	0.0	88.94	8,987.2	-232.1	1,085.5	921.8	163.74	6.630		
16,700.0	7,272.0	16,580.8	7,252.0	166.3	0.0	88.94	9,087.2	-232.9	1,086.2	920.8	165.48	6.564		
16,800.0	7,272.0	16,680.8	7,252.0	168.1	0.0	88.95	9,187.2	-233.7	1,087.0	919.7	167.22	6.500		
16,900.0	7,272.0	16,780.8	7,252.0	169.8	0.0	88.95	9,287.2	-234.5	1,087.7	918.7	168.96	6.437		
17,000.0	7,272.0	16,880.8	7,252.0	171.5	0.0	88.95	9,387.2	-235.4	1,088.4	917.7	170.71	6.376		
17,100.0	7,272.0	16,980.7	7,252.0	173.3	0.0	88.95	9,487.2	-236.2	1,089.1	916.7	172.45	6.316		
17,200.0	7,272.0	17,080.7	7,252.0	175.0	0.0	88.95	9,587.2	-237.0	1,089.8	915.6	174.19	6.256		
17,270.0	7,272.0	17,150.7	7,252.0	176.2	0.0	88.95	9,657.2	-237.6	1,090.3	914.9	175.41	6.216 SF		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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 19-18-3CDH - 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	
0.0	0.0	0.0	0.0	0.0	0.0	89.69	0.6	105.0	105.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.69	0.6	105.0	105.0	104.7	0.28	378.902		
200.0	200.0	200.0	200.0	1.0	0.0	89.69	0.6	105.0	105.0	104.2	0.80	131.560		
300.0	300.0	300.0	300.0	1.5	0.0	89.69	0.6	105.0	105.0	103.8	1.22	85.726		
400.0	400.0	400.0	400.0	1.9	0.0	89.69	0.6	105.0	105.0	103.4	1.62	64.862		
500.0	500.0	500.0	500.0	2.3	0.0	89.69	0.6	105.0	105.0	103.0	2.00	52.513		
600.0	600.0	600.0	600.0	2.7	0.0	89.69	0.6	105.0	105.0	102.6	2.37	44.242		
700.0	700.0	700.0	700.0	3.1	0.0	89.69	0.6	105.0	105.0	102.2	2.74	38.279	CC, ES	
800.0	800.0	800.0	800.0	3.4	0.0	-156.90	0.6	105.0	106.6	103.4	3.17	33.615		
900.0	899.8	899.8	899.8	4.3	0.0	-157.92	0.6	105.0	111.4	107.2	4.21	26.456		
1,000.0	999.5	999.5	999.5	5.2	0.0	-159.44	0.6	105.0	119.5	114.5	5.08	23.546		
1,100.0	1,098.7	1,098.7	1,098.7	5.9	0.0	-161.23	0.6	105.0	131.0	125.2	5.84	22.428		
1,200.0	1,197.5	1,197.5	1,197.5	6.6	0.0	-163.12	0.6	105.0	145.9	139.4	6.54	22.324		
1,300.0	1,295.6	1,291.8	1,291.8	7.0	0.0	-164.54	-0.3	106.2	165.3	158.4	6.95	23.789		
1,400.0	1,393.6	1,385.0	1,384.9	7.2	0.0	-165.12	-2.8	109.9	188.0	180.8	7.18	26.181		
1,500.0	1,491.6	1,477.2	1,476.8	7.5	0.0	-165.00	-7.1	116.0	213.0	205.6	7.44	28.636		
1,600.0	1,589.6	1,568.2	1,567.2	7.8	0.0	-164.41	-12.9	124.4	240.2	232.5	7.70	31.211		
1,700.0	1,687.6	1,661.4	1,659.5	8.1	0.0	-163.54	-20.2	135.0	269.3	261.3	7.97	33.771		
1,800.0	1,785.6	1,757.0	1,754.1	8.4	0.0	-162.80	-27.9	146.1	298.6	290.4	8.27	36.097		
1,900.0	1,883.6	1,852.5	1,848.7	8.7	0.0	-162.19	-35.6	157.2	328.0	319.4	8.58	38.229		
2,000.0	1,981.6	1,948.1	1,943.3	9.0	0.0	-161.67	-43.3	168.3	357.4	348.5	8.89	40.183		
2,100.0	2,079.6	2,043.6	2,037.9	9.4	0.0	-161.24	-50.9	179.3	386.8	377.6	9.22	41.976		
2,200.0	2,177.5	2,139.1	2,132.4	9.7	0.0	-160.87	-58.6	190.4	416.2	406.7	9.54	43.624		
2,300.0	2,275.5	2,234.7	2,227.0	10.1	0.0	-160.54	-66.3	201.5	445.7	435.8	9.87	45.140		
2,400.0	2,373.5	2,330.2	2,321.6	10.5	0.0	-160.26	-74.0	212.6	475.2	464.9	10.21	46.538		
2,500.0	2,471.5	2,425.7	2,416.2	10.9	0.0	-160.01	-81.6	223.7	504.6	494.1	10.55	47.828		
2,600.0	2,569.5	2,521.3	2,510.8	11.3	0.0	-159.78	-89.3	234.7	534.1	523.2	10.90	49.022		
2,700.0	2,667.5	2,616.8	2,605.4	11.7	0.0	-159.59	-97.0	245.8	563.6	552.3	11.24	50.128		
2,800.0	2,765.5	2,712.4	2,699.9	12.2	0.0	-159.41	-104.7	256.9	593.1	581.5	11.59	51.155		
2,900.0	2,863.5	2,807.9	2,794.5	12.6	0.0	-159.24	-112.3	268.0	622.6	610.6	11.95	52.109		
3,000.0	2,961.5	2,903.4	2,889.1	13.1	0.0	-159.09	-120.0	279.1	652.1	639.8	12.30	52.999		
3,100.0	3,059.5	2,999.0	2,983.7	13.6	0.0	-158.96	-127.7	290.2	681.6	668.9	12.66	53.828		
3,200.0	3,157.4	3,094.5	3,078.3	14.0	0.0	-158.84	-135.4	301.2	711.1	698.1	13.02	54.604		
3,300.0	3,255.4	3,190.0	3,172.8	14.5	0.0	-158.72	-143.0	312.3	740.6	727.2	13.39	55.330		
3,400.0	3,353.4	3,285.6	3,267.4	15.0	0.0	-158.62	-150.7	323.4	770.1	756.3	13.75	56.010		
3,500.0	3,451.4	3,381.1	3,362.0	15.5	0.0	-158.52	-158.4	334.5	799.6	785.5	14.12	56.649		
3,600.0	3,549.4	3,476.7	3,456.6	16.0	0.0	-158.43	-166.1	345.6	829.1	814.6	14.48	57.250		
3,700.0	3,647.4	3,572.2	3,551.2	16.4	0.0	-158.34	-173.7	356.6	858.6	843.8	14.85	57.815		
3,800.0	3,745.4	3,667.7	3,645.7	16.9	0.0	-158.27	-181.4	367.7	888.2	872.9	15.22	58.349		
3,900.0	3,843.4	3,763.3	3,740.3	17.4	0.0	-158.19	-189.1	378.8	917.7	902.1	15.59	58.852		
4,000.0	3,941.4	3,858.8	3,834.9	17.9	0.0	-158.12	-196.8	389.9	947.2	931.2	15.97	59.328		
4,100.0	4,039.3	3,954.3	3,929.5	18.4	0.0	-158.06	-204.4	401.0	976.7	960.4	16.34	59.778		
4,200.0	4,137.3	4,049.9	4,024.1	18.9	0.0	-158.00	-212.1	412.0	1,006.2	989.5	16.71	60.205		
4,300.0	4,235.3	4,145.4	4,118.7	19.4	0.0	-157.94	-219.8	423.1	1,035.8	1,018.7	17.09	60.610		
4,400.0	4,333.3	4,241.0	4,213.2	19.9	0.0	-157.88	-227.5	434.2	1,065.3	1,047.8	17.47	60.994		
4,500.0	4,431.3	4,336.5	4,307.8	20.4	0.0	-157.83	-235.1	445.3	1,094.8	1,077.0	17.84	61.360		
4,600.0	4,529.3	4,432.0	4,402.4	20.9	0.0	-157.78	-242.8	456.4	1,124.3	1,106.1	18.22	61.707		
4,700.0	4,627.3	4,527.6	4,497.0	21.4	0.0	-157.74	-250.5	467.4	1,153.9	1,135.3	18.60	62.038		
4,800.0	4,725.3	4,623.1	4,591.6	21.8	0.0	-157.69	-258.2	478.5	1,183.4	1,164.4	18.98	62.354		
4,900.0	4,823.3	4,718.6	4,686.1	22.3	0.0	-157.65	-265.8	489.6	1,212.9	1,193.6	19.36	62.655		
5,000.0	4,921.2	4,814.2	4,780.7	22.8	0.0	-157.61	-273.5	500.7	1,242.5	1,222.7	19.74	62.943		
5,100.0	5,019.2	4,909.7	4,875.3	23.3	0.0	-157.57	-281.2	511.8	1,272.0	1,251.9	20.12	63.217		

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 19-18-1NXH
<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 19-18-1NXH	<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 19-18-3CDH - 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	5,117.2	5,005.3	4,969.9	23.8	0.0	-157.54	-288.9	522.9	1,301.5	1,281.0	20.50	63.480		
5,300.0	5,215.2	5,100.8	5,064.5	24.3	0.0	-157.50	-296.5	533.9	1,331.1	1,310.2	20.89	63.732		
5,400.0	5,313.2	5,196.3	5,159.1	24.8	0.0	-157.47	-304.2	545.0	1,360.6	1,339.3	21.27	63.973		
5,500.0	5,411.2	5,291.9	5,253.6	25.3	0.0	-157.44	-311.9	556.1	1,390.1	1,368.5	21.65	64.204		
5,600.0	5,509.2	5,387.4	5,348.2	25.8	0.0	-157.41	-319.6	567.2	1,419.6	1,397.6	22.04	64.426		
5,700.0	5,607.2	5,482.9	5,442.8	26.3	0.0	-157.38	-327.2	578.3	1,449.2	1,426.8	22.42	64.638		
5,800.0	5,705.2	5,578.5	5,537.4	26.8	0.0	-157.35	-334.9	589.3	1,478.7	1,455.9	22.80	64.843		
5,900.0	5,803.2	5,674.0	5,632.0	27.3	0.0	-157.32	-342.6	600.4	1,508.2	1,485.1	23.19	65.039		
6,000.0	5,901.1	5,769.5	5,726.5	27.8	0.0	-157.30	-350.3	611.5	1,537.8	1,514.2	23.58	65.228		
6,100.0	5,999.1	5,865.1	5,821.1	28.3	0.0	-157.27	-358.0	622.6	1,567.3	1,543.4	23.96	65.410		
6,200.0	6,097.1	5,960.6	5,915.7	28.8	0.0	-157.25	-365.6	633.7	1,596.8	1,572.5	24.35	65.584		
6,300.0	6,195.1	6,056.2	6,010.3	29.3	0.0	-157.23	-373.3	644.7	1,626.4	1,601.6	24.73	65.753		
6,400.0	6,293.1	6,151.7	6,104.9	29.8	0.0	-157.20	-381.0	655.8	1,655.9	1,630.8	25.12	65.915		
6,500.0	6,391.1	6,247.2	6,199.4	30.3	0.0	-157.18	-388.7	666.9	1,685.4	1,659.9	25.51	66.072		
6,600.0	6,489.1	6,342.8	6,294.0	30.8	0.0	-157.16	-396.3	678.0	1,715.0	1,689.1	25.90	66.223		
6,700.0	6,587.1	6,438.3	6,388.6	31.3	0.0	-157.14	-404.0	689.1	1,744.5	1,718.2	26.29	66.369		
6,800.0	6,685.1	6,533.8	6,483.2	31.8	0.0	-167.52	-411.7	700.1	1,774.1	1,747.4	26.67	66.523		
6,900.0	6,783.1	6,628.4	6,576.8	32.3	0.0	142.03	-419.3	711.1	1,803.5	1,776.4	27.02	66.739		
7,000.0	6,878.9	6,719.4	6,666.9	32.8	0.0	116.89	-426.6	721.7	1,832.3	1,805.0	27.34	67.025		
7,100.0	6,969.6	6,804.1	6,750.7	33.2	0.0	105.46	-433.4	731.5	1,860.5	1,832.9	27.60	67.410		
7,200.0	7,052.3	6,879.8	6,825.6	33.5	0.0	99.11	-439.5	740.3	1,888.3	1,860.5	27.82	67.880		
7,300.0	7,124.6	6,944.2	6,889.5	33.7	0.0	94.91	-444.6	747.7	1,916.0	1,888.0	28.00	68.430		
7,400.0	7,184.2	6,995.5	6,940.2	33.8	0.0	91.64	-448.8	753.7	1,944.0	1,915.8	28.15	69.052		
7,500.0	7,229.4	7,032.0	6,976.3	33.9	0.0	88.70	-451.7	757.9	1,972.5	1,944.2	28.29	69.735		
7,600.0	7,258.8	7,052.6	6,996.8	33.9	0.0	85.76	-453.4	760.3	2,001.6	1,973.2	28.41	70.462		
7,700.0	7,271.5	7,056.8	7,000.9	33.9	0.0	82.72	-453.7	760.8	2,030.7	2,002.2	28.52	71.207		
7,800.0	7,272.0	8,131.3	7,662.0	33.9	0.0	100.96	196.0	832.4	2,051.5	2,021.9	29.59	69.324		
7,900.0	7,272.0	8,231.3	7,662.0	34.0	0.0	100.96	296.0	831.6	2,052.2	2,022.2	30.02	68.367		
8,000.0	7,272.0	8,331.3	7,662.0	34.3	0.0	100.95	396.0	830.8	2,052.9	2,022.4	30.54	67.227		
8,100.0	7,272.0	8,431.3	7,662.0	34.6	0.0	100.95	495.9	830.0	2,053.6	2,022.5	31.15	65.937		
8,200.0	7,272.0	8,531.3	7,662.0	35.0	0.0	100.94	595.9	829.1	2,054.3	2,022.5	31.84	64.527		
8,300.0	7,272.0	8,631.3	7,662.0	35.5	0.0	100.94	695.9	828.3	2,055.0	2,022.4	32.61	63.024		
8,400.0	7,272.0	8,731.3	7,662.0	36.2	0.0	100.94	795.9	827.5	2,055.7	2,022.3	33.45	61.455		
8,500.0	7,272.0	8,831.3	7,662.0	36.9	0.0	100.93	895.9	826.7	2,056.4	2,022.1	34.36	59.846		
8,600.0	7,272.0	8,931.3	7,662.0	37.7	0.0	100.93	995.9	825.8	2,057.1	2,021.8	35.34	58.217		
8,700.0	7,272.0	9,031.3	7,662.0	38.7	0.0	100.92	1,095.9	825.0	2,057.8	2,021.5	36.37	56.586		
8,800.0	7,272.0	9,131.3	7,662.0	39.7	0.0	100.92	1,195.9	824.2	2,058.5	2,021.1	37.45	54.967		
8,900.0	7,272.0	9,231.3	7,662.0	40.7	0.0	100.92	1,295.9	823.3	2,059.3	2,020.7	38.58	53.373		
9,000.0	7,272.0	9,331.3	7,662.0	41.8	0.0	100.91	1,395.9	822.5	2,060.0	2,020.2	39.76	51.811		
9,100.0	7,272.0	9,431.3	7,662.0	43.0	0.0	100.91	1,495.9	821.7	2,060.7	2,019.7	40.98	50.290		
9,200.0	7,272.0	9,531.3	7,662.0	44.2	0.0	100.91	1,595.9	820.9	2,061.4	2,019.1	42.23	48.814		
9,300.0	7,272.0	9,631.3	7,662.0	45.4	0.0	100.90	1,695.9	820.0	2,062.1	2,018.5	43.52	47.386		
9,400.0	7,272.0	9,731.3	7,662.0	46.7	0.0	100.90	1,795.9	819.2	2,062.8	2,017.9	44.83	46.009		
9,500.0	7,272.0	9,831.3	7,662.0	48.0	0.0	100.89	1,895.9	818.4	2,063.5	2,017.3	46.18	44.683		
9,600.0	7,272.0	9,931.3	7,662.0	49.3	0.0	100.89	1,995.9	817.6	2,064.2	2,016.6	47.55	43.409		
9,700.0	7,272.0	10,031.3	7,662.0	50.7	0.0	100.89	2,095.8	816.7	2,064.9	2,015.9	48.95	42.186		
9,800.0	7,272.0	10,131.3	7,662.0	52.1	0.0	100.88	2,195.8	815.9	2,065.6	2,015.2	50.36	41.013		
9,900.0	7,272.0	10,231.3	7,662.0	53.5	0.0	100.88	2,295.8	815.1	2,066.3	2,014.5	51.80	39.888		
10,000.0	7,272.0	10,331.3	7,662.0	54.9	0.0	100.88	2,395.8	814.3	2,067.0	2,013.7	53.26	38.812		
10,100.0	7,272.0	10,431.3	7,662.0	56.4	0.0	100.87	2,495.8	813.4	2,067.7	2,013.0	54.73	37.780		
10,200.0	7,272.0	10,531.3	7,662.0	57.9	0.0	100.87	2,595.8	812.6	2,068.4	2,012.2	56.22	36.793		
10,300.0	7,272.0	10,631.3	7,662.0	59.3	0.0	100.86	2,695.8	811.8	2,069.1	2,011.4	57.72	35.848		

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 19-18-1NXH
<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 19-18-1NXH	<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 19-18-3CDH - 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	7,272.0	10,731.3	7,662.0	60.8	0.0	100.86	2,795.8	810.9	2,069.8	2,010.6	59.23	34.943		
10,500.0	7,272.0	10,831.3	7,662.0	62.4	0.0	100.86	2,895.8	810.1	2,070.5	2,009.7	60.76	34.076		
10,600.0	7,272.0	10,931.3	7,662.0	63.9	0.0	100.85	2,995.8	809.3	2,071.2	2,008.9	62.30	33.246		
10,700.0	7,272.0	11,031.3	7,662.0	65.4	0.0	100.85	3,095.8	808.5	2,071.9	2,008.1	63.85	32.450		
10,800.0	7,272.0	11,131.3	7,662.0	67.0	0.0	100.85	3,195.8	807.6	2,072.6	2,007.2	65.41	31.687		
10,900.0	7,272.0	11,231.3	7,662.0	68.5	0.0	100.84	3,295.8	806.8	2,073.3	2,006.3	66.98	30.956		
11,000.0	7,272.0	11,331.3	7,662.0	70.1	0.0	100.84	3,395.8	806.0	2,074.0	2,005.5	68.55	30.254		
11,100.0	7,272.0	11,431.2	7,662.0	71.7	0.0	100.84	3,495.8	805.2	2,074.7	2,004.6	70.14	29.581		
11,200.0	7,272.0	11,531.2	7,662.0	73.3	0.0	100.83	3,595.8	804.3	2,075.4	2,003.7	71.73	28.934		
11,300.0	7,272.0	11,631.2	7,662.0	74.9	0.0	100.83	3,695.8	803.5	2,076.1	2,002.8	73.33	28.313		
11,400.0	7,272.0	11,731.2	7,662.0	76.5	0.0	100.82	3,795.7	802.7	2,076.8	2,001.9	74.93	27.716		
11,500.0	7,272.0	11,831.2	7,662.0	78.1	0.0	100.82	3,895.7	801.8	2,077.5	2,001.0	76.54	27.142		
11,600.0	7,272.0	11,931.2	7,662.0	79.7	0.0	100.82	3,995.7	801.0	2,078.2	2,000.1	78.16	26.589		
11,700.0	7,272.0	12,031.2	7,662.0	81.3	0.0	100.81	4,095.7	800.2	2,078.9	1,999.2	79.78	26.057		
11,800.0	7,272.0	12,131.2	7,662.0	83.0	0.0	100.81	4,195.7	799.4	2,079.6	1,998.2	81.41	25.545		
11,900.0	7,272.0	12,231.2	7,662.0	84.6	0.0	100.81	4,295.7	798.5	2,080.4	1,997.3	83.04	25.051		
12,000.0	7,272.0	12,331.2	7,662.0	86.3	0.0	100.80	4,395.7	797.7	2,081.1	1,996.4	84.68	24.576		
12,100.0	7,272.0	12,431.2	7,662.0	87.9	0.0	100.80	4,495.7	796.9	2,081.8	1,995.4	86.32	24.117		
12,200.0	7,272.0	12,531.2	7,662.0	89.6	0.0	100.79	4,595.7	796.1	2,082.5	1,994.5	87.97	23.674		
12,300.0	7,272.0	12,631.2	7,662.0	91.2	0.0	100.79	4,695.7	795.2	2,083.2	1,993.6	89.61	23.246		
12,400.0	7,272.0	12,731.2	7,662.0	92.9	0.0	100.79	4,795.7	794.4	2,083.9	1,992.6	91.27	22.833		
12,500.0	7,272.0	12,831.2	7,662.0	94.5	0.0	100.78	4,895.7	793.6	2,084.6	1,991.7	92.92	22.434		
12,600.0	7,272.0	12,931.2	7,662.0	96.2	0.0	100.78	4,995.7	792.8	2,085.3	1,990.7	94.58	22.048		
12,700.0	7,272.0	13,031.2	7,662.0	97.9	0.0	100.78	5,095.7	791.9	2,086.0	1,989.7	96.24	21.674		
12,800.0	7,272.0	13,131.2	7,662.0	99.5	0.0	100.77	5,195.7	791.1	2,086.7	1,988.8	97.91	21.313		
12,900.0	7,272.0	13,231.2	7,662.0	101.2	0.0	100.77	5,295.7	790.3	2,087.4	1,987.8	99.57	20.963		
13,000.0	7,272.0	13,331.2	7,662.0	102.9	0.0	100.76	5,395.7	789.4	2,088.1	1,986.8	101.24	20.624		
13,100.0	7,272.0	13,431.2	7,662.0	104.6	0.0	100.76	5,495.6	788.6	2,088.8	1,985.9	102.92	20.296		
13,200.0	7,272.0	13,531.2	7,662.0	106.3	0.0	100.76	5,595.6	787.8	2,089.5	1,984.9	104.59	19.978		
13,300.0	7,272.0	13,631.2	7,662.0	108.0	0.0	100.75	5,695.6	787.0	2,090.2	1,983.9	106.27	19.669		
13,400.0	7,272.0	13,731.2	7,662.0	109.6	0.0	100.75	5,795.6	786.1	2,090.9	1,983.0	107.95	19.370		
13,500.0	7,272.0	13,831.2	7,662.0	111.3	0.0	100.75	5,895.6	785.3	2,091.6	1,982.0	109.63	19.079		
13,600.0	7,272.0	13,931.2	7,662.0	113.0	0.0	100.74	5,995.6	784.5	2,092.3	1,981.0	111.31	18.797		
13,700.0	7,272.0	14,031.2	7,662.0	114.7	0.0	100.74	6,095.6	783.7	2,093.0	1,980.0	113.00	18.523		
13,800.0	7,272.0	14,131.2	7,662.0	116.4	0.0	100.74	6,195.6	782.8	2,093.7	1,979.0	114.68	18.257		
13,900.0	7,272.0	14,231.2	7,662.0	118.1	0.0	100.73	6,295.6	782.0	2,094.4	1,978.1	116.37	17.998		
14,000.0	7,272.0	14,331.2	7,662.0	119.8	0.0	100.73	6,395.6	781.2	2,095.1	1,977.1	118.06	17.746		
14,100.0	7,272.0	14,431.2	7,662.0	121.5	0.0	100.72	6,495.6	780.4	2,095.8	1,976.1	119.75	17.501		
14,200.0	7,272.0	14,531.2	7,662.0	123.2	0.0	100.72	6,595.6	779.5	2,096.5	1,975.1	121.45	17.263		
14,300.0	7,272.0	14,631.2	7,662.0	125.0	0.0	100.72	6,695.6	778.7	2,097.2	1,974.1	123.14	17.031		
14,400.0	7,272.0	14,731.2	7,662.0	126.7	0.0	100.71	6,795.6	777.9	2,097.9	1,973.1	124.84	16.805		
14,500.0	7,272.0	14,831.2	7,662.0	128.4	0.0	100.71	6,895.6	777.0	2,098.6	1,972.1	126.53	16.586		
14,600.0	7,272.0	14,931.2	7,662.0	130.1	0.0	100.71	6,995.6	776.2	2,099.3	1,971.1	128.23	16.371		
14,700.0	7,272.0	15,031.2	7,662.0	131.8	0.0	100.70	7,095.6	775.4	2,100.1	1,970.1	129.93	16.163		
14,800.0	7,272.0	15,131.2	7,662.0	133.5	0.0	100.70	7,195.5	774.6	2,100.8	1,969.1	131.63	15.959		
14,900.0	7,272.0	15,231.2	7,662.0	135.2	0.0	100.70	7,295.5	773.7	2,101.5	1,968.1	133.34	15.761		
15,000.0	7,272.0	15,331.1	7,662.0	137.0	0.0	100.69	7,395.5	772.9	2,102.2	1,967.1	135.04	15.567		
15,100.0	7,272.0	15,431.1	7,662.0	138.7	0.0	100.69	7,495.5	772.1	2,102.9	1,966.1	136.74	15.378		
15,200.0	7,272.0	15,531.1	7,662.0	140.4	0.0	100.68	7,595.5	771.3	2,103.6	1,965.1	138.45	15.194		
15,300.0	7,272.0	15,631.1	7,662.0	142.1	0.0	100.68	7,695.5	770.4	2,104.3	1,964.1	140.16	15.014		
15,400.0	7,272.0	15,731.1	7,662.0	143.8	0.0	100.68	7,795.5	769.6	2,105.0	1,963.1	141.86	14.838		
15,500.0	7,272.0	15,831.1	7,662.0	145.6	0.0	100.67	7,895.5	768.8	2,105.7	1,962.1	143.57	14.666		

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 19-18-1NXH
<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 19-18-1NXH	<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 19-18-3CDH - 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	
15,600.0	7,272.0	15,931.1	7,662.0	147.3	0.0	100.67	7,995.5	768.0	2,106.4	1,961.1	145.28	14.499	
15,700.0	7,272.0	16,031.1	7,662.0	149.0	0.0	100.67	8,095.5	767.1	2,107.1	1,960.1	146.99	14.335	
15,800.0	7,272.0	16,131.1	7,662.0	150.7	0.0	100.66	8,195.5	766.3	2,107.8	1,959.1	148.70	14.175	
15,900.0	7,272.0	16,231.1	7,662.0	152.5	0.0	100.66	8,295.5	765.5	2,108.5	1,958.1	150.41	14.018	
16,000.0	7,272.0	16,331.1	7,662.0	154.2	0.0	100.66	8,395.5	764.6	2,109.2	1,957.1	152.13	13.865	
16,100.0	7,272.0	16,431.1	7,662.0	155.9	0.0	100.65	8,495.5	763.8	2,109.9	1,956.1	153.84	13.715	
16,200.0	7,272.0	16,531.1	7,662.0	157.7	0.0	100.65	8,595.5	763.0	2,110.6	1,955.1	155.55	13.568	
16,300.0	7,272.0	16,631.1	7,662.0	159.4	0.0	100.65	8,695.5	762.2	2,111.3	1,954.0	157.27	13.425	
16,400.0	7,272.0	16,731.1	7,662.0	161.1	0.0	100.64	8,795.4	761.3	2,112.0	1,953.0	158.98	13.284	
16,500.0	7,272.0	16,831.1	7,662.0	162.9	0.0	100.64	8,895.4	760.5	2,112.7	1,952.0	160.70	13.147	
16,600.0	7,272.0	16,931.1	7,662.0	164.6	0.0	100.63	8,995.4	759.7	2,113.4	1,951.0	162.42	13.012	
16,700.0	7,272.0	17,031.1	7,662.0	166.3	0.0	100.63	9,095.4	758.9	2,114.1	1,950.0	164.13	12.881	
16,800.0	7,272.0	17,131.1	7,662.0	168.1	0.0	100.63	9,195.4	758.0	2,114.8	1,949.0	165.85	12.751	
16,900.0	7,272.0	17,231.1	7,662.0	169.8	0.0	100.62	9,295.4	757.2	2,115.5	1,948.0	167.57	12.625	
17,000.0	7,272.0	17,331.1	7,662.0	171.5	0.0	100.62	9,395.4	756.4	2,116.2	1,946.9	169.29	12.501	
17,100.0	7,272.0	17,431.1	7,662.0	173.3	0.0	100.62	9,495.4	755.6	2,116.9	1,945.9	171.01	12.379	
17,200.0	7,272.0	17,531.1	7,662.0	175.0	0.0	100.61	9,595.4	754.7	2,117.6	1,944.9	172.73	12.260	
17,270.0	7,272.0	17,601.1	7,662.0	176.2	0.0	100.61	9,665.4	754.1	2,118.1	1,944.2	173.93	12.178 SF	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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		
0.0	0.0	0.0	0.0	0.0	0.0	89.71	0.8	150.0	150.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.71	0.8	150.0	150.0	149.7	0.28	541.581		
200.0	200.0	200.0	200.0	1.0	0.0	89.71	0.8	150.0	150.0	149.2	0.80	188.038		
300.0	300.0	300.0	300.0	1.5	0.0	89.71	0.8	150.0	150.0	148.8	1.22	122.522		
400.0	400.0	400.0	400.0	1.9	0.0	89.71	0.8	150.0	150.0	148.4	1.62	92.700		
500.0	500.0	500.0	500.0	2.3	0.0	89.71	0.8	150.0	150.0	148.0	2.00	75.049		
600.0	600.0	600.0	600.0	2.7	0.0	89.71	0.8	150.0	150.0	147.6	2.37	63.228		
700.0	700.0	700.0	700.0	3.1	0.0	89.71	0.8	150.0	150.0	147.3	2.74	54.705 CC, ES		
800.0	800.0	800.0	800.0	3.4	0.0	-156.77	0.8	150.0	151.6	148.4	3.17	47.840		
900.0	899.8	899.8	899.8	4.3	0.0	-157.49	0.8	150.0	156.4	152.2	4.21	37.191		
1,000.0	999.5	994.4	994.4	5.2	0.0	-158.32	0.2	151.5	166.0	161.0	5.06	32.816		
1,100.0	1,098.7	1,087.8	1,087.7	5.9	0.0	-159.00	-1.3	155.8	181.9	176.1	5.80	31.367 SF		
1,200.0	1,197.5	1,179.7	1,179.2	6.6	0.0	-159.50	-3.8	162.9	204.0	197.5	6.46	31.586		
1,300.0	1,295.6	1,269.4	1,268.4	7.0	0.0	-159.86	-7.2	172.4	231.9	225.1	6.84	33.885		
1,400.0	1,393.6	1,357.3	1,355.4	7.2	0.0	-160.08	-11.5	184.3	263.5	256.4	7.06	37.335		
1,500.0	1,491.6	1,443.6	1,440.4	7.5	0.0	-160.02	-16.5	198.4	297.7	290.4	7.29	40.815		
1,600.0	1,589.6	1,528.1	1,523.1	7.8	0.0	-159.79	-22.3	214.6	334.4	326.9	7.53	44.424		
1,700.0	1,687.6	1,613.3	1,606.0	8.1	0.0	-159.43	-28.9	233.1	373.5	365.7	7.77	48.044		
1,800.0	1,785.6	1,705.1	1,695.1	8.4	0.0	-159.08	-36.2	253.7	413.3	405.2	8.07	51.240		
1,900.0	1,883.6	1,796.8	1,784.2	8.7	0.0	-158.79	-43.5	274.3	453.1	444.7	8.37	54.164		
2,000.0	1,981.6	1,888.5	1,873.3	9.0	0.0	-158.54	-50.9	294.9	492.9	484.2	8.67	56.842		
2,100.0	2,079.6	1,980.2	1,962.3	9.4	0.0	-158.33	-58.2	315.4	532.7	523.7	8.98	59.299		
2,200.0	2,177.5	2,071.9	2,051.4	9.7	0.0	-158.16	-65.5	336.0	572.5	563.2	9.30	61.557		
2,300.0	2,275.5	2,163.6	2,140.5	10.1	0.0	-158.00	-72.9	356.6	612.4	602.7	9.62	63.635		
2,400.0	2,373.5	2,255.4	2,229.6	10.5	0.0	-157.86	-80.2	377.2	652.2	642.2	9.95	65.550		
2,500.0	2,471.5	2,347.1	2,318.6	10.9	0.0	-157.74	-87.5	397.7	692.0	681.7	10.28	67.319		
2,600.0	2,569.5	2,438.8	2,407.7	11.3	0.0	-157.63	-94.9	418.3	731.8	721.2	10.61	68.956		
2,700.0	2,667.5	2,530.5	2,496.8	11.7	0.0	-157.54	-102.2	438.9	771.7	760.7	10.95	70.473		
2,800.0	2,765.5	2,622.2	2,585.9	12.2	0.0	-157.45	-109.5	459.5	811.5	800.2	11.29	71.882		
2,900.0	2,863.5	2,713.9	2,675.0	12.6	0.0	-157.37	-116.9	480.0	851.3	839.7	11.63	73.192		
3,000.0	2,961.5	2,805.7	2,764.0	13.1	0.0	-157.30	-124.2	500.6	891.2	879.2	11.98	74.412		
3,100.0	3,059.5	2,897.4	2,853.1	13.6	0.0	-157.23	-131.5	521.2	931.0	918.7	12.32	75.551		
3,200.0	3,157.4	2,989.1	2,942.2	14.0	0.0	-157.17	-138.9	541.8	970.9	958.2	12.67	76.616		
3,300.0	3,255.4	3,080.8	3,031.3	14.5	0.0	-157.12	-146.2	562.3	1,010.7	997.7	13.02	77.613		
3,400.0	3,353.4	3,172.5	3,120.3	15.0	0.0	-157.07	-153.5	582.9	1,050.5	1,037.2	13.37	78.547		
3,500.0	3,451.4	3,264.2	3,209.4	15.5	0.0	-157.02	-160.9	603.5	1,090.4	1,076.7	13.73	79.424		
3,600.0	3,549.4	3,356.0	3,298.5	16.0	0.0	-156.97	-168.2	624.0	1,130.2	1,116.1	14.08	80.249		
3,700.0	3,647.4	3,447.7	3,387.6	16.4	0.0	-156.93	-175.5	644.6	1,170.1	1,155.6	14.44	81.026		
3,800.0	3,745.4	3,539.4	3,476.7	16.9	0.0	-156.90	-182.9	665.2	1,209.9	1,195.1	14.80	81.758		
3,900.0	3,843.4	3,631.1	3,565.7	17.4	0.0	-156.86	-190.2	685.8	1,249.8	1,234.6	15.16	82.449		
4,000.0	3,941.4	3,722.8	3,654.8	17.9	0.0	-156.83	-197.5	706.3	1,289.6	1,274.1	15.52	83.102		
4,100.0	4,039.3	3,814.5	3,743.9	18.4	0.0	-156.79	-204.9	726.9	1,329.4	1,313.6	15.88	83.720		
4,200.0	4,137.3	3,906.3	3,833.0	18.9	0.0	-156.76	-212.2	747.5	1,369.3	1,353.0	16.24	84.305		
4,300.0	4,235.3	3,998.0	3,922.0	19.4	0.0	-156.73	-219.5	768.1	1,409.1	1,392.5	16.61	84.860		
4,400.0	4,333.3	4,089.7	4,011.1	19.9	0.0	-156.71	-226.9	788.6	1,449.0	1,432.0	16.97	85.387		
4,500.0	4,431.3	4,181.4	4,100.2	20.4	0.0	-156.68	-234.2	809.2	1,488.8	1,471.5	17.33	85.887		
4,600.0	4,529.3	4,273.1	4,189.3	20.9	0.0	-156.66	-241.5	829.8	1,528.7	1,511.0	17.70	86.363		
4,700.0	4,627.3	4,364.8	4,278.4	21.4	0.0	-156.64	-248.9	850.4	1,568.5	1,550.5	18.07	86.816		
4,800.0	4,725.3	4,456.6	4,367.4	21.8	0.0	-156.61	-256.2	870.9	1,608.4	1,589.9	18.43	87.248		
4,900.0	4,823.3	4,548.3	4,456.5	22.3	0.0	-156.59	-263.5	891.5	1,648.2	1,629.4	18.80	87.659		
5,000.0	4,921.2	4,640.0	4,545.6	22.8	0.0	-156.57	-270.9	912.1	1,688.1	1,668.9	19.17	88.052		
5,100.0	5,019.2	4,731.7	4,634.7	23.3	0.0	-156.56	-278.2	932.7	1,727.9	1,708.4	19.54	88.426		

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 19-18-1NXH
<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 19-18-1NXH	<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
5,200.0	5,117.2	4,823.4	4,723.7	23.8	0.0	-156.54	-285.5	953.2	1,767.8	1,747.8	19.91	88.785	
5,300.0	5,215.2	4,915.1	4,812.8	24.3	0.0	-156.52	-292.9	973.8	1,807.6	1,787.3	20.28	89.127	
5,400.0	5,313.2	5,006.9	4,901.9	24.8	0.0	-156.50	-300.2	994.4	1,847.4	1,826.8	20.65	89.455	
5,500.0	5,411.2	5,098.6	4,991.0	25.3	0.0	-156.49	-307.5	1,015.0	1,887.3	1,866.3	21.02	89.769	
5,600.0	5,509.2	5,190.3	5,080.1	25.8	0.0	-156.47	-314.9	1,035.5	1,927.1	1,905.7	21.40	90.070	
5,700.0	5,607.2	5,282.0	5,169.1	26.3	0.0	-156.46	-322.2	1,056.1	1,967.0	1,945.2	21.77	90.358	
5,800.0	5,705.2	5,373.7	5,258.2	26.8	0.0	-156.45	-329.5	1,076.7	2,006.8	1,984.7	22.14	90.634	
5,900.0	5,803.2	5,465.4	5,347.3	27.3	0.0	-156.43	-336.9	1,097.3	2,046.7	2,024.2	22.52	90.900	
6,000.0	5,901.1	5,557.2	5,436.4	27.8	0.0	-156.42	-344.2	1,117.8	2,086.5	2,063.6	22.89	91.155	
6,100.0	5,999.1	5,648.9	5,525.4	28.3	0.0	-156.41	-351.5	1,138.4	2,126.4	2,103.1	23.26	91.400	
6,200.0	6,097.1	5,740.6	5,614.5	28.8	0.0	-156.40	-358.9	1,159.0	2,166.2	2,142.6	23.64	91.635	
6,300.0	6,195.1	5,832.3	5,703.6	29.3	0.0	-156.38	-366.2	1,179.6	2,206.1	2,182.1	24.02	91.861	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	89.72	0.7	135.0	135.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.72	0.7	135.0	135.0	134.7	0.28	487.377		
200.0	200.0	200.0	200.0	1.0	0.0	89.72	0.7	135.0	135.0	134.2	0.80	169.215		
300.0	300.0	300.0	300.0	1.5	0.0	89.72	0.7	135.0	135.0	133.8	1.22	110.256		
400.0	400.0	400.0	400.0	1.9	0.0	89.72	0.7	135.0	135.0	133.4	1.62	83.419		
500.0	500.0	500.0	500.0	2.3	0.0	89.72	0.7	135.0	135.0	133.0	2.00	67.534		
600.0	600.0	600.0	600.0	2.7	0.0	89.72	0.7	135.0	135.0	132.6	2.37	56.896		
700.0	700.0	700.0	700.0	3.1	0.0	89.72	0.7	135.0	135.0	132.2	2.74	49.226 CC, ES		
800.0	800.0	800.0	800.0	3.4	0.0	-156.79	0.7	135.0	136.6	133.4	3.17	43.095		
900.0	899.8	899.8	899.8	4.3	0.0	-157.59	0.7	135.0	141.4	137.2	4.21	33.609		
1,000.0	999.5	999.5	999.5	5.2	0.0	-158.80	0.7	135.0	149.5	144.4	5.07	29.490		
1,100.0	1,098.7	1,094.0	1,093.9	5.9	0.0	-159.96	0.1	136.4	162.4	156.6	5.82	27.890 SF		
1,200.0	1,197.5	1,187.1	1,187.0	6.6	0.0	-160.79	-1.7	140.6	181.4	174.9	6.49	27.948		
1,300.0	1,295.6	1,278.4	1,278.0	7.0	0.0	-161.32	-4.6	147.5	206.4	199.6	6.89	29.976		
1,400.0	1,393.6	1,368.2	1,367.2	7.2	0.0	-161.56	-8.5	156.8	235.0	227.9	7.11	33.077		
1,500.0	1,491.6	1,456.4	1,454.5	7.5	0.0	-161.45	-13.3	168.4	266.3	258.9	7.35	36.236		
1,600.0	1,589.6	1,543.0	1,539.8	7.8	0.0	-161.11	-19.1	182.3	300.0	292.4	7.59	39.532		
1,700.0	1,687.6	1,630.3	1,625.2	8.1	0.0	-160.61	-25.9	198.6	336.2	328.3	7.84	42.865		
1,800.0	1,785.6	1,723.2	1,716.1	8.4	0.0	-160.13	-33.4	216.5	373.0	364.8	8.14	45.842		
1,900.0	1,883.6	1,816.1	1,807.0	8.7	0.0	-159.73	-40.9	234.5	409.8	401.4	8.44	48.568		
2,000.0	1,981.6	1,909.1	1,897.8	9.0	0.0	-159.40	-48.5	252.5	446.6	437.9	8.75	51.066		
2,100.0	2,079.6	2,002.0	1,988.7	9.4	0.0	-159.12	-56.0	270.4	483.5	474.4	9.06	53.359		
2,200.0	2,177.5	2,094.9	2,079.6	9.7	0.0	-158.88	-63.5	288.4	520.4	511.0	9.38	55.466		
2,300.0	2,275.5	2,187.9	2,170.5	10.1	0.0	-158.67	-71.0	306.3	557.2	547.5	9.71	57.405		
2,400.0	2,373.5	2,280.8	2,261.3	10.5	0.0	-158.48	-78.5	324.3	594.1	584.1	10.04	59.193		
2,500.0	2,471.5	2,373.8	2,352.2	10.9	0.0	-158.32	-86.0	342.3	631.0	620.6	10.37	60.845		
2,600.0	2,569.5	2,466.7	2,443.1	11.3	0.0	-158.18	-93.5	360.2	667.9	657.2	10.71	62.373		
2,700.0	2,667.5	2,559.6	2,534.0	11.7	0.0	-158.05	-101.0	378.2	704.8	693.7	11.05	63.790		
2,800.0	2,765.5	2,652.6	2,624.8	12.2	0.0	-157.93	-108.5	396.1	741.6	730.3	11.39	65.106		
2,900.0	2,863.5	2,745.5	2,715.7	12.6	0.0	-157.83	-116.0	414.1	778.5	766.8	11.74	66.330		
3,000.0	2,961.5	2,838.4	2,806.6	13.1	0.0	-157.73	-123.5	432.1	815.4	803.3	12.09	67.470		
3,100.0	3,059.5	2,931.4	2,897.5	13.6	0.0	-157.64	-131.0	450.0	852.3	839.9	12.44	68.534		
3,200.0	3,157.4	3,024.3	2,988.3	14.0	0.0	-157.56	-138.6	468.0	889.2	876.4	12.79	69.529		
3,300.0	3,255.4	3,117.2	3,079.2	14.5	0.0	-157.49	-146.1	485.9	926.1	913.0	13.14	70.461		
3,400.0	3,353.4	3,210.2	3,170.1	15.0	0.0	-157.42	-153.6	503.9	963.0	949.5	13.50	71.335		
3,500.0	3,451.4	3,303.1	3,261.0	15.5	0.0	-157.36	-161.1	521.9	999.9	986.1	13.86	72.155		
3,600.0	3,549.4	3,396.1	3,351.8	16.0	0.0	-157.30	-168.6	539.8	1,036.8	1,022.6	14.22	72.927		
3,700.0	3,647.4	3,489.0	3,442.7	16.4	0.0	-157.25	-176.1	557.8	1,073.7	1,059.2	14.58	73.653		
3,800.0	3,745.4	3,581.9	3,533.6	16.9	0.0	-157.20	-183.6	575.7	1,110.6	1,095.7	14.94	74.338		
3,900.0	3,843.4	3,674.9	3,624.5	17.4	0.0	-157.15	-191.1	593.7	1,147.6	1,132.2	15.30	74.985		
4,000.0	3,941.4	3,767.8	3,715.3	17.9	0.0	-157.10	-198.6	611.7	1,184.5	1,168.8	15.67	75.597		
4,100.0	4,039.3	3,860.7	3,806.2	18.4	0.0	-157.06	-206.1	629.6	1,221.4	1,205.3	16.03	76.175		
4,200.0	4,137.3	3,953.7	3,897.1	18.9	0.0	-157.02	-213.6	647.6	1,258.3	1,241.9	16.40	76.724		
4,300.0	4,235.3	4,046.6	3,988.0	19.4	0.0	-156.98	-221.1	665.5	1,295.2	1,278.4	16.77	77.244		
4,400.0	4,333.3	4,139.6	4,078.8	19.9	0.0	-156.95	-228.7	683.5	1,332.1	1,314.9	17.14	77.737		
4,500.0	4,431.3	4,232.5	4,169.7	20.4	0.0	-156.92	-236.2	701.5	1,369.0	1,351.5	17.50	78.206		
4,600.0	4,529.3	4,325.4	4,260.6	20.9	0.0	-156.88	-243.7	719.4	1,405.9	1,388.0	17.87	78.653		
4,700.0	4,627.3	4,418.4	4,351.5	21.4	0.0	-156.85	-251.2	737.4	1,442.8	1,424.6	18.25	79.078		
4,800.0	4,725.3	4,511.3	4,442.3	21.8	0.0	-156.83	-258.7	755.3	1,479.7	1,461.1	18.62	79.483		
4,900.0	4,823.3	4,604.2	4,533.2	22.3	0.0	-156.80	-266.2	773.3	1,516.6	1,497.6	18.99	79.869		
5,000.0	4,921.2	4,697.2	4,624.1	22.8	0.0	-156.77	-273.7	791.3	1,553.5	1,534.2	19.36	80.238		
5,100.0	5,019.2	4,790.1	4,715.0	23.3	0.0	-156.75	-281.2	809.2	1,590.5	1,570.7	19.74	80.590		

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 19-18-1NXH
<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 19-18-1NXH	<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	5,117.2	4,883.0	4,805.8	23.8	0.0	-156.73	-288.7	827.2	1,627.4	1,607.3	20.11	80.927	
5,300.0	5,215.2	4,976.0	4,896.7	24.3	0.0	-156.70	-296.2	845.1	1,664.3	1,643.8	20.48	81.249	
5,400.0	5,313.2	5,068.9	4,987.6	24.8	0.0	-156.68	-303.7	863.1	1,701.2	1,680.3	20.86	81.558	
5,500.0	5,411.2	5,161.9	5,078.5	25.3	0.0	-156.66	-311.2	881.0	1,738.1	1,716.9	21.23	81.854	
5,600.0	5,509.2	5,254.8	5,169.3	25.8	0.0	-156.64	-318.8	899.0	1,775.0	1,753.4	21.61	82.137	
5,700.0	5,607.2	5,347.7	5,260.2	26.3	0.0	-156.62	-326.3	917.0	1,811.9	1,789.9	21.99	82.409	
5,800.0	5,705.2	5,440.7	5,351.1	26.8	0.0	-156.60	-333.8	934.9	1,848.8	1,826.5	22.36	82.670	
5,900.0	5,803.2	5,533.6	5,442.0	27.3	0.0	-156.59	-341.3	952.9	1,885.7	1,863.0	22.74	82.920	
6,000.0	5,901.1	5,626.5	5,532.8	27.8	0.0	-156.57	-348.8	970.8	1,922.7	1,899.5	23.12	83.161	
6,100.0	5,999.1	5,719.5	5,623.7	28.3	0.0	-156.55	-356.3	988.8	1,959.6	1,936.1	23.50	83.393	
6,200.0	6,097.1	5,812.4	5,714.6	28.8	0.0	-156.54	-363.8	1,006.8	1,996.5	1,972.6	23.88	83.615	
6,300.0	6,195.1	5,905.4	5,805.5	29.3	0.0	-156.52	-371.3	1,024.7	2,033.4	2,009.1	24.26	83.830	
6,400.0	6,293.1	5,998.3	5,896.3	29.8	0.0	-156.51	-378.8	1,042.7	2,070.3	2,045.7	24.64	84.036	
6,500.0	6,391.1	6,091.2	5,987.2	30.3	0.0	-156.50	-386.3	1,060.6	2,107.2	2,082.2	25.02	84.235	
6,600.0	6,489.1	6,184.2	6,078.1	30.8	0.0	-156.48	-393.8	1,078.6	2,144.1	2,118.7	25.40	84.426	
6,700.0	6,587.1	6,277.1	6,169.0	31.3	0.0	-156.47	-401.3	1,096.6	2,181.0	2,155.3	25.78	84.611	
6,800.0	6,685.1	6,370.0	6,259.8	31.8	0.0	-167.03	-408.9	1,114.5	2,218.0	2,191.8	26.15	84.807	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	89.71	0.6	120.0	120.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.71	0.6	120.0	120.0	119.7	0.28	433.282		
200.0	200.0	200.0	200.0	1.0	0.0	89.71	0.6	120.0	120.0	119.2	0.80	150.435		
300.0	300.0	300.0	300.0	1.5	0.0	89.71	0.6	120.0	120.0	118.8	1.22	98.020		
400.0	400.0	400.0	400.0	1.9	0.0	89.71	0.6	120.0	120.0	118.4	1.62	74.162		
500.0	500.0	500.0	500.0	2.3	0.0	89.71	0.6	120.0	120.0	118.0	2.00	60.041		
600.0	600.0	600.0	600.0	2.7	0.0	89.71	0.6	120.0	120.0	117.6	2.37	50.583		
700.0	700.0	700.0	700.0	3.1	0.0	89.71	0.6	120.0	120.0	117.3	2.74	43.764 CC, ES		
800.0	800.0	800.0	800.0	3.4	0.0	-156.83	0.6	120.0	121.6	118.4	3.17	38.365		
900.0	899.8	899.8	899.8	4.3	0.0	-157.73	0.6	120.0	126.4	122.2	4.21	30.039		
1,000.0	999.5	999.5	999.5	5.2	0.0	-159.08	0.6	120.0	134.5	129.5	5.07	26.523		
1,100.0	1,098.7	1,098.7	1,098.7	5.9	0.0	-160.71	0.6	120.0	146.0	140.2	5.84	25.013		
1,200.0	1,197.5	1,193.1	1,193.1	6.6	0.0	-162.07	-0.1	121.3	162.2	155.7	6.52	24.877 SF		
1,300.0	1,295.6	1,285.9	1,285.8	7.0	0.0	-162.91	-2.2	125.4	184.3	177.3	6.92	26.617		
1,400.0	1,393.6	1,377.4	1,377.0	7.2	0.0	-163.24	-5.6	131.9	209.9	202.7	7.15	29.359		
1,500.0	1,491.6	1,467.6	1,466.6	7.5	0.0	-163.09	-10.3	140.9	238.0	230.6	7.40	32.172		
1,600.0	1,589.6	1,556.3	1,554.4	7.8	0.0	-162.61	-16.1	152.2	268.6	260.9	7.65	35.124		
1,700.0	1,687.6	1,644.2	1,641.0	8.1	0.0	-161.93	-23.1	165.7	301.6	293.7	7.90	38.178		
1,800.0	1,785.6	1,738.2	1,733.3	8.4	0.0	-161.22	-31.2	181.2	335.6	327.4	8.19	40.955		
1,900.0	1,883.6	1,832.2	1,825.6	8.7	0.0	-160.64	-39.2	196.7	369.6	361.1	8.50	43.500		
2,000.0	1,981.6	1,926.1	1,918.0	9.0	0.0	-160.17	-47.3	212.2	403.7	394.9	8.81	45.834		
2,100.0	2,079.6	2,020.1	2,010.3	9.4	0.0	-159.76	-55.3	227.6	437.8	428.7	9.13	47.976		
2,200.0	2,177.5	2,114.1	2,102.6	9.7	0.0	-159.41	-63.3	243.1	471.9	462.5	9.45	49.945		
2,300.0	2,275.5	2,208.0	2,195.0	10.1	0.0	-159.12	-71.4	258.6	506.0	496.3	9.78	51.757		
2,400.0	2,373.5	2,302.0	2,287.3	10.5	0.0	-158.85	-79.4	274.1	540.2	530.1	10.11	53.429		
2,500.0	2,471.5	2,396.0	2,379.6	10.9	0.0	-158.62	-87.5	289.6	574.3	563.9	10.45	54.973		
2,600.0	2,569.5	2,489.9	2,472.0	11.3	0.0	-158.42	-95.5	305.0	608.5	597.7	10.79	56.402		
2,700.0	2,667.5	2,583.9	2,564.3	11.7	0.0	-158.24	-103.5	320.5	642.6	631.5	11.13	57.726		
2,800.0	2,765.5	2,677.9	2,656.6	12.2	0.0	-158.07	-111.6	336.0	676.8	665.3	11.48	58.956		
2,900.0	2,863.5	2,771.8	2,749.0	12.6	0.0	-157.92	-119.6	351.5	711.0	699.1	11.83	60.099		
3,000.0	2,961.5	2,865.8	2,841.3	13.1	0.0	-157.79	-127.7	367.0	745.1	732.9	12.18	61.165		
3,100.0	3,059.5	2,959.8	2,933.6	13.6	0.0	-157.66	-135.7	382.4	779.3	766.8	12.54	62.160		
3,200.0	3,157.4	3,053.7	3,026.0	14.0	0.0	-157.55	-143.7	397.9	813.5	800.6	12.89	63.090		
3,300.0	3,255.4	3,147.7	3,118.3	14.5	0.0	-157.45	-151.8	413.4	847.7	834.4	13.25	63.961		
3,400.0	3,353.4	3,241.7	3,210.6	15.0	0.0	-157.35	-159.8	428.9	881.8	868.2	13.61	64.777		
3,500.0	3,451.4	3,335.6	3,303.0	15.5	0.0	-157.26	-167.9	444.4	916.0	902.1	13.98	65.544		
3,600.0	3,549.4	3,429.6	3,395.3	16.0	0.0	-157.18	-175.9	459.8	950.2	935.9	14.34	66.265		
3,700.0	3,647.4	3,523.6	3,487.6	16.4	0.0	-157.10	-183.9	475.3	984.4	969.7	14.70	66.945		
3,800.0	3,745.4	3,617.5	3,580.0	16.9	0.0	-157.03	-192.0	490.8	1,018.6	1,003.5	15.07	67.585		
3,900.0	3,843.4	3,711.5	3,672.3	17.4	0.0	-156.97	-200.0	506.3	1,052.8	1,037.4	15.44	68.190		
4,000.0	3,941.4	3,805.5	3,764.6	17.9	0.0	-156.90	-208.1	521.8	1,087.0	1,071.2	15.81	68.762		
4,100.0	4,039.3	3,899.4	3,857.0	18.4	0.0	-156.84	-216.1	537.2	1,121.2	1,105.0	16.18	69.303		
4,200.0	4,137.3	3,993.4	3,949.3	18.9	0.0	-156.79	-224.1	552.7	1,155.4	1,138.8	16.55	69.816		
4,300.0	4,235.3	4,087.3	4,041.6	19.4	0.0	-156.74	-232.2	568.2	1,189.6	1,172.6	16.92	70.302		
4,400.0	4,333.3	4,181.3	4,134.0	19.9	0.0	-156.69	-240.2	583.7	1,223.8	1,206.5	17.29	70.764		
4,500.0	4,431.3	4,275.3	4,226.3	20.4	0.0	-156.64	-248.3	599.2	1,258.0	1,240.3	17.67	71.203		
4,600.0	4,529.3	4,369.2	4,318.6	20.9	0.0	-156.60	-256.3	614.6	1,292.2	1,274.1	18.04	71.621		
4,700.0	4,627.3	4,463.2	4,411.0	21.4	0.0	-156.56	-264.3	630.1	1,326.4	1,307.9	18.42	72.019		
4,800.0	4,725.3	4,557.2	4,503.3	21.8	0.0	-156.52	-272.4	645.6	1,360.6	1,341.8	18.79	72.398		
4,900.0	4,823.3	4,651.1	4,595.6	22.3	0.0	-156.48	-280.4	661.1	1,394.8	1,375.6	19.17	72.760		
5,000.0	4,921.2	4,745.1	4,688.0	22.8	0.0	-156.44	-288.4	676.5	1,429.0	1,409.4	19.55	73.106		
5,100.0	5,019.2	4,839.1	4,780.3	23.3	0.0	-156.41	-296.5	692.0	1,463.2	1,443.2	19.92	73.436		

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 19-18-1NXH
<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 19-18-1NXH	<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	5,117.2	4,933.0	4,872.6	23.8	0.0	-156.38	-304.5	707.5	1,497.4	1,477.1	20.30	73.752		
5,300.0	5,215.2	5,027.0	4,965.0	24.3	0.0	-156.34	-312.6	723.0	1,531.6	1,510.9	20.68	74.054		
5,400.0	5,313.2	5,121.0	5,057.3	24.8	0.0	-156.31	-320.6	738.5	1,565.8	1,544.7	21.06	74.344		
5,500.0	5,411.2	5,214.9	5,149.6	25.3	0.0	-156.29	-328.6	753.9	1,600.0	1,578.5	21.44	74.621		
5,600.0	5,509.2	5,308.9	5,242.0	25.8	0.0	-156.26	-336.7	769.4	1,634.2	1,612.3	21.82	74.887		
5,700.0	5,607.2	5,402.9	5,334.3	26.3	0.0	-156.23	-344.7	784.9	1,668.4	1,646.2	22.20	75.143		
5,800.0	5,705.2	5,496.8	5,426.6	26.8	0.0	-156.21	-352.8	800.4	1,702.6	1,680.0	22.58	75.388		
5,900.0	5,803.2	5,590.8	5,519.0	27.3	0.0	-156.18	-360.8	815.9	1,736.8	1,713.8	22.97	75.623		
6,000.0	5,901.1	5,684.8	5,611.3	27.8	0.0	-156.16	-368.8	831.3	1,771.0	1,747.6	23.35	75.850		
6,100.0	5,999.1	5,778.7	5,703.6	28.3	0.0	-156.14	-376.9	846.8	1,805.2	1,781.5	23.73	76.068		
6,200.0	6,097.1	5,872.7	5,796.0	28.8	0.0	-156.12	-384.9	862.3	1,839.4	1,815.3	24.11	76.277		
6,300.0	6,195.1	5,966.7	5,888.3	29.3	0.0	-156.09	-393.0	877.8	1,873.6	1,849.1	24.50	76.479		
6,400.0	6,293.1	6,060.6	5,980.6	29.8	0.0	-156.07	-401.0	893.3	1,907.8	1,882.9	24.88	76.674		
6,500.0	6,391.1	6,154.6	6,073.0	30.3	0.0	-156.06	-409.0	908.7	1,942.0	1,916.7	25.27	76.861		
6,600.0	6,489.1	6,248.6	6,165.3	30.8	0.0	-156.04	-417.1	924.2	1,976.2	1,950.6	25.65	77.042		
6,700.0	6,587.1	6,342.5	6,257.6	31.3	0.0	-156.02	-425.1	939.7	2,010.4	1,984.4	26.04	77.216		
6,800.0	6,685.1	6,436.5	6,349.9	31.8	0.0	-166.51	-433.2	955.2	2,044.6	2,018.2	26.42	77.401		
6,900.0	6,783.1	6,529.5	6,441.3	32.3	0.0	142.41	-441.1	970.5	2,078.9	2,052.1	26.76	77.683		
7,000.0	6,878.9	6,618.7	6,529.0	32.8	0.0	116.59	-448.8	985.2	2,112.7	2,085.6	27.06	78.073		
7,100.0	6,969.6	6,701.6	6,610.5	33.2	0.0	104.46	-455.8	998.9	2,145.6	2,118.3	27.30	78.591		
7,200.0	7,052.3	6,796.0	6,703.4	33.5	0.0	97.67	-456.5	1,014.4	2,177.4	2,149.8	27.55	79.032		
7,300.0	7,124.6	6,904.2	6,808.5	33.7	0.0	93.43	-438.3	1,031.8	2,206.9	2,179.1	27.80	79.388		



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	89.73	0.8	165.0	165.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.73	0.8	165.0	165.0	164.7	0.28	595.762		
200.0	200.0	200.0	200.0	1.0	0.0	89.73	0.8	165.0	165.0	164.2	0.80	206.843		
300.0	300.0	300.0	300.0	1.5	0.0	89.73	0.8	165.0	165.0	163.8	1.22	134.772		
400.0	400.0	400.0	400.0	1.9	0.0	89.73	0.8	165.0	165.0	163.4	1.62	101.966		
500.0	500.0	500.0	500.0	2.3	0.0	89.73	0.8	165.0	165.0	163.0	2.00	82.550		
600.0	600.0	600.0	600.0	2.7	0.0	89.73	0.8	165.0	165.0	162.6	2.37	69.546		
700.0	700.0	700.0	700.0	3.1	0.0	89.73	0.8	165.0	165.0	162.2	2.74	60.170 CC, ES		
800.0	800.0	800.0	800.0	3.4	0.0	-156.73	0.8	165.0	166.6	163.4	3.17	52.573		
900.0	899.8	894.4	894.4	4.3	0.0	-157.18	0.4	166.5	173.0	168.8	4.20	41.177		
1,000.0	999.5	988.0	987.8	5.2	0.0	-157.65	-0.9	170.9	185.7	180.7	5.04	36.821		
1,100.0	1,098.7	1,080.1	1,079.7	5.9	0.0	-158.09	-2.9	178.1	204.7	198.9	5.77	35.466 SF		
1,200.0	1,197.5	1,170.4	1,169.4	6.6	0.0	-158.45	-5.7	188.0	229.8	223.4	6.42	35.812		
1,300.0	1,295.6	1,258.3	1,256.4	7.0	0.0	-158.77	-9.2	200.2	260.8	254.0	6.80	38.380		
1,400.0	1,393.6	1,344.3	1,341.0	7.2	0.0	-159.04	-13.3	214.6	295.4	288.4	7.00	42.187		
1,500.0	1,491.6	1,428.4	1,423.4	7.5	0.0	-159.10	-17.9	231.0	332.7	325.4	7.23	45.996		
1,600.0	1,589.6	1,510.6	1,503.4	7.8	0.0	-159.01	-23.1	249.3	372.4	364.9	7.46	49.922		
1,700.0	1,687.6	1,590.9	1,580.9	8.1	0.0	-158.83	-28.8	269.4	414.6	406.9	7.68	53.949		
1,800.0	1,785.6	1,679.9	1,666.5	8.4	0.0	-158.59	-35.5	292.9	458.2	450.2	7.97	57.508		
1,900.0	1,883.6	1,769.9	1,753.0	8.7	0.0	-158.40	-42.2	316.7	501.7	493.5	8.26	60.733		
2,000.0	1,981.6	1,859.9	1,839.5	9.0	0.0	-158.23	-48.9	340.5	545.3	536.8	8.56	63.689		
2,100.0	2,079.6	1,949.9	1,926.0	9.4	0.0	-158.09	-55.7	364.3	588.9	580.1	8.87	66.402		
2,200.0	2,177.5	2,039.9	2,012.6	9.7	0.0	-157.97	-62.4	388.1	632.5	623.4	9.18	68.895		
2,300.0	2,275.5	2,129.9	2,099.1	10.1	0.0	-157.86	-69.2	411.9	676.2	666.7	9.50	71.192		
2,400.0	2,373.5	2,219.8	2,185.6	10.5	0.0	-157.77	-75.9	435.7	719.8	709.9	9.82	73.309		
2,500.0	2,471.5	2,309.8	2,272.1	10.9	0.0	-157.68	-82.7	459.5	763.4	753.2	10.14	75.266		
2,600.0	2,569.5	2,399.8	2,358.6	11.3	0.0	-157.61	-89.4	483.3	807.0	796.5	10.47	77.077		
2,700.0	2,667.5	2,489.8	2,445.2	11.7	0.0	-157.54	-96.1	507.1	850.6	839.8	10.80	78.756		
2,800.0	2,765.5	2,579.8	2,531.7	12.2	0.0	-157.48	-102.9	530.9	894.2	883.1	11.13	80.316		
2,900.0	2,863.5	2,669.8	2,618.2	12.6	0.0	-157.43	-109.6	554.7	937.8	926.3	11.47	81.767		
3,000.0	2,961.5	2,759.8	2,704.7	13.1	0.0	-157.38	-116.4	578.5	981.4	969.6	11.81	83.119		
3,100.0	3,059.5	2,849.7	2,791.2	13.6	0.0	-157.33	-123.1	602.3	1,025.0	1,012.9	12.15	84.381		
3,200.0	3,157.4	2,939.7	2,877.7	14.0	0.0	-157.29	-129.9	626.1	1,068.6	1,056.2	12.49	85.561		
3,300.0	3,255.4	3,029.7	2,964.3	14.5	0.0	-157.26	-136.6	649.9	1,112.3	1,099.4	12.83	86.666		
3,400.0	3,353.4	3,119.7	3,050.8	15.0	0.0	-157.22	-143.3	673.7	1,155.9	1,142.7	13.18	87.701		
3,500.0	3,451.4	3,209.7	3,137.3	15.5	0.0	-157.19	-150.1	697.5	1,199.5	1,186.0	13.53	88.674		
3,600.0	3,549.4	3,299.7	3,223.8	16.0	0.0	-157.16	-156.8	721.3	1,243.1	1,229.2	13.88	89.589		
3,700.0	3,647.4	3,389.7	3,310.3	16.4	0.0	-157.13	-163.6	745.1	1,286.7	1,272.5	14.23	90.450		
3,800.0	3,745.4	3,479.6	3,396.9	16.9	0.0	-157.10	-170.3	768.9	1,330.3	1,315.7	14.58	91.261		
3,900.0	3,843.4	3,569.6	3,483.4	17.4	0.0	-157.08	-177.1	792.7	1,373.9	1,359.0	14.93	92.027		
4,000.0	3,941.4	3,659.6	3,569.9	17.9	0.0	-157.05	-183.8	816.6	1,417.6	1,402.3	15.28	92.751		
4,100.0	4,039.3	3,749.6	3,656.4	18.4	0.0	-157.03	-190.5	840.4	1,461.2	1,445.5	15.64	93.436		
4,200.0	4,137.3	3,839.6	3,742.9	18.9	0.0	-157.01	-197.3	864.2	1,504.8	1,488.8	15.99	94.085		
4,300.0	4,235.3	3,929.6	3,829.5	19.4	0.0	-156.99	-204.0	888.0	1,548.4	1,532.1	16.35	94.699		
4,400.0	4,333.3	4,019.6	3,916.0	19.9	0.0	-156.97	-210.8	911.8	1,592.0	1,575.3	16.71	95.283		
4,500.0	4,431.3	4,109.5	4,002.5	20.4	0.0	-156.96	-217.5	935.6	1,635.6	1,618.6	17.07	95.837		
4,600.0	4,529.3	4,199.5	4,089.0	20.9	0.0	-156.94	-224.3	959.4	1,679.3	1,661.8	17.43	96.364		
4,700.0	4,627.3	4,289.5	4,175.5	21.4	0.0	-156.92	-231.0	983.2	1,722.9	1,705.1	17.79	96.865		
4,800.0	4,725.3	4,379.5	4,262.0	21.8	0.0	-156.91	-237.7	1,007.0	1,766.5	1,748.3	18.15	97.342		
4,900.0	4,823.3	4,469.5	4,348.6	22.3	0.0	-156.89	-244.5	1,030.8	1,810.1	1,791.6	18.51	97.798		
5,000.0	4,921.2	4,559.5	4,435.1	22.8	0.0	-156.88	-251.2	1,054.6	1,853.7	1,834.8	18.87	98.231		
5,100.0	5,019.2	4,649.5	4,521.6	23.3	0.0	-156.87	-258.0	1,078.4	1,897.3	1,878.1	19.23	98.646		

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 19-18-1NXH
<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 19-18-1NXH	<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 - CONNER 19-18-4CDH - OH - PLAN #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 0-												<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	
5,200.0	5,117.2	4,739.4	4,608.1	23.8	0.0	-156.86	-264.7	1,102.2	1,940.9	1,921.4	19.60	99.041	
5,300.0	5,215.2	4,829.4	4,694.6	24.3	0.0	-156.84	-271.5	1,126.0	1,984.6	1,964.6	19.96	99.420	
5,400.0	5,313.2	4,919.4	4,781.2	24.8	0.0	-156.83	-278.2	1,149.8	2,028.2	2,007.9	20.33	99.781	
5,500.0	5,411.2	5,009.4	4,867.7	25.3	0.0	-156.82	-284.9	1,173.6	2,071.8	2,051.1	20.69	100.128	
5,600.0	5,509.2	5,099.4	4,954.2	25.8	0.0	-156.81	-291.7	1,197.4	2,115.4	2,094.4	21.06	100.459	
5,700.0	5,607.2	5,189.4	5,040.7	26.3	0.0	-156.80	-298.4	1,221.2	2,159.0	2,137.6	21.42	100.777	
5,800.0	5,705.2	5,279.4	5,127.2	26.8	0.0	-156.79	-305.2	1,245.0	2,202.6	2,180.9	21.79	101.081	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	89.71	1.1	209.9	210.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.71	1.1	209.9	210.0	209.7	0.28	757.974		
200.0	200.0	200.0	200.0	1.0	0.0	89.71	1.1	209.9	210.0	209.2	0.80	263.171		
300.0	300.0	300.0	300.0	1.5	0.0	89.71	1.1	209.9	210.0	208.7	1.22	171.479		
400.0	400.0	400.0	400.0	1.9	0.0	89.71	1.1	209.9	210.0	208.3	1.62	129.742		
500.0	500.0	500.0	500.0	2.3	0.0	89.71	1.1	209.9	210.0	208.0	2.00	105.038 CC, ES		
600.0	600.0	593.3	593.3	2.7	0.0	89.79	0.8	211.4	211.5	209.2	2.37	89.207		
700.0	700.0	686.4	686.2	3.1	0.0	90.04	-0.2	215.9	216.3	213.6	2.74	79.055		
800.0	800.0	778.9	778.5	3.4	0.0	-155.88	-1.7	223.2	225.9	222.7	3.16	71.580		
900.0	899.8	870.3	869.3	4.3	0.0	-155.73	-3.8	233.3	241.7	237.5	4.16	58.069		
1,000.0	999.5	960.1	958.2	5.2	0.0	-155.69	-6.5	246.0	263.7	258.7	4.97	53.019		
1,100.0	1,098.7	1,047.8	1,044.5	5.9	0.0	-155.72	-9.6	261.1	291.7	286.0	5.67	51.471 SF		
1,200.0	1,197.5	1,132.9	1,127.8	6.6	0.0	-155.79	-13.2	278.1	325.5	319.2	6.28	51.863		
1,300.0	1,295.6	1,215.1	1,207.7	7.0	0.0	-155.95	-17.1	296.9	364.9	358.3	6.63	55.031		
1,400.0	1,393.6	1,300.0	1,289.6	7.2	0.0	-156.27	-21.6	318.6	407.7	400.8	6.85	59.557		
1,500.0	1,491.6	1,372.8	1,359.4	7.5	0.0	-156.44	-25.9	339.1	452.8	445.8	7.03	64.370		
1,600.0	1,589.6	1,448.6	1,431.3	7.8	0.0	-156.52	-30.8	362.3	500.3	493.1	7.25	69.050		
1,700.0	1,687.6	1,522.2	1,500.7	8.1	0.0	-156.54	-35.9	386.6	550.0	542.5	7.45	73.789		
1,800.0	1,785.6	1,602.5	1,575.7	8.4	0.0	-156.51	-41.7	414.6	601.5	593.7	7.70	78.068		
1,900.0	1,883.6	1,688.2	1,655.6	8.7	0.0	-156.48	-48.0	444.7	653.1	645.1	7.99	81.747		
2,000.0	1,981.6	1,773.8	1,735.6	9.0	0.0	-156.46	-54.3	474.8	704.7	696.4	8.28	85.116		
2,100.0	2,079.6	1,859.5	1,815.5	9.4	0.0	-156.44	-60.6	504.8	756.3	747.7	8.57	88.204		
2,200.0	2,177.5	1,945.1	1,895.5	9.7	0.0	-156.42	-66.9	534.9	807.9	799.0	8.87	91.040		
2,300.0	2,275.5	2,030.8	1,975.4	10.1	0.0	-156.40	-73.2	565.0	859.5	850.3	9.18	93.648		
2,400.0	2,373.5	2,116.4	2,055.4	10.5	0.0	-156.39	-79.5	595.0	911.1	901.7	9.49	96.051		
2,500.0	2,471.5	2,202.1	2,135.3	10.9	0.0	-156.38	-85.8	625.1	962.8	953.0	9.80	98.269		
2,600.0	2,569.5	2,287.7	2,215.3	11.3	0.0	-156.36	-92.1	655.2	1,014.4	1,004.3	10.11	100.319		
2,700.0	2,667.5	2,373.4	2,295.2	11.7	0.0	-156.35	-98.3	685.2	1,066.0	1,055.6	10.43	102.218		
2,800.0	2,765.5	2,459.0	2,375.2	12.2	0.0	-156.34	-104.6	715.3	1,117.6	1,106.8	10.75	103.979		
2,900.0	2,863.5	2,544.7	2,455.1	12.6	0.0	-156.34	-110.9	745.4	1,169.2	1,158.1	11.07	105.616		
3,000.0	2,961.5	2,630.3	2,535.1	13.1	0.0	-156.33	-117.2	775.5	1,220.8	1,209.4	11.39	107.139		
3,100.0	3,059.5	2,716.0	2,615.0	13.6	0.0	-156.32	-123.5	805.5	1,272.4	1,260.7	11.72	108.559		
3,200.0	3,157.4	2,801.6	2,695.0	14.0	0.0	-156.31	-129.8	835.6	1,324.1	1,312.0	12.05	109.885		
3,300.0	3,255.4	2,887.3	2,774.9	14.5	0.0	-156.31	-136.1	865.7	1,375.7	1,363.3	12.38	111.125		
3,400.0	3,353.4	2,972.9	2,854.9	15.0	0.0	-156.30	-142.4	895.7	1,427.3	1,414.6	12.71	112.285		
3,500.0	3,451.4	3,058.6	2,934.8	15.5	0.0	-156.30	-148.7	925.8	1,478.9	1,465.9	13.04	113.374		
3,600.0	3,549.4	3,144.2	3,014.8	16.0	0.0	-156.29	-155.0	955.9	1,530.5	1,517.1	13.38	114.395		
3,700.0	3,647.4	3,229.9	3,094.7	16.4	0.0	-156.29	-161.2	985.9	1,582.1	1,568.4	13.72	115.356		
3,800.0	3,745.4	3,315.5	3,174.7	16.9	0.0	-156.28	-167.5	1,016.0	1,633.7	1,619.7	14.05	116.260		
3,900.0	3,843.4	3,401.2	3,254.6	17.4	0.0	-156.28	-173.8	1,046.1	1,685.4	1,671.0	14.39	117.112		
4,000.0	3,941.4	3,486.8	3,334.6	17.9	0.0	-156.27	-180.1	1,076.1	1,737.0	1,722.2	14.73	117.915		
4,100.0	4,039.3	3,572.5	3,414.6	18.4	0.0	-156.27	-186.4	1,106.2	1,788.6	1,773.5	15.07	118.674		
4,200.0	4,137.3	3,658.1	3,494.5	18.9	0.0	-156.27	-192.7	1,136.3	1,840.2	1,824.8	15.41	119.391		
4,300.0	4,235.3	3,743.8	3,574.5	19.4	0.0	-156.26	-199.0	1,166.3	1,891.8	1,876.1	15.76	120.070		
4,400.0	4,333.3	3,829.4	3,654.4	19.9	0.0	-156.26	-205.3	1,196.4	1,943.4	1,927.3	16.10	120.713		
4,500.0	4,431.3	3,915.1	3,734.4	20.4	0.0	-156.26	-211.6	1,226.5	1,995.0	1,978.6	16.44	121.322		
4,600.0	4,529.3	4,000.7	3,814.3	20.9	0.0	-156.26	-217.8	1,256.6	2,046.7	2,029.9	16.79	121.900		
4,700.0	4,627.3	4,086.4	3,894.3	21.4	0.0	-156.25	-224.1	1,286.6	2,098.3	2,081.1	17.14	122.449		
4,800.0	4,725.3	4,172.0	3,974.2	21.8	0.0	-156.25	-230.4	1,316.7	2,149.9	2,132.4	17.48	122.971		
4,900.0	4,823.3	4,257.7	4,054.2	22.3	0.0	-156.25	-236.7	1,346.8	2,201.5	2,183.7	17.83	123.466		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	89.69	1.0	194.9	195.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.69	1.0	194.9	195.0	194.7	0.28	703.692		
200.0	200.0	200.0	200.0	1.0	0.0	89.69	1.0	194.9	195.0	194.2	0.80	244.331		
300.0	300.0	300.0	300.0	1.5	0.0	89.69	1.0	194.9	195.0	193.7	1.22	159.206		
400.0	400.0	400.0	400.0	1.9	0.0	89.69	1.0	194.9	195.0	193.3	1.62	120.459		
500.0	500.0	500.0	500.0	2.3	0.0	89.69	1.0	194.9	195.0	193.0	2.00	97.524		
600.0	600.0	600.0	600.0	2.7	0.0	89.69	1.0	194.9	195.0	192.6	2.37	82.163 CC, ES		
700.0	700.0	693.7	693.7	3.1	0.0	89.79	0.7	196.4	196.6	193.8	2.74	71.714		
800.0	800.0	787.2	787.0	3.4	0.0	-156.30	-0.2	200.9	202.9	199.8	3.16	64.171		
900.0	899.8	879.7	879.3	4.3	0.0	-156.29	-1.8	208.3	215.7	211.5	4.18	51.614		
1,000.0	999.5	970.9	969.9	5.2	0.0	-156.39	-4.0	218.4	234.6	229.6	5.00	46.923		
1,100.0	1,098.7	1,060.2	1,058.2	5.9	0.0	-156.54	-6.7	231.0	259.7	254.0	5.71	45.521 SF		
1,200.0	1,197.5	1,147.1	1,143.8	6.6	0.0	-156.71	-9.9	245.9	290.8	284.5	6.33	45.955		
1,300.0	1,295.6	1,231.2	1,226.1	7.0	0.0	-156.94	-13.5	262.7	327.5	320.9	6.69	48.959		
1,400.0	1,393.6	1,313.1	1,305.8	7.2	0.0	-157.26	-17.4	281.3	367.7	360.9	6.89	53.405		
1,500.0	1,491.6	1,393.0	1,383.0	7.5	0.0	-157.43	-21.8	301.6	410.4	403.3	7.10	57.779		
1,600.0	1,589.6	1,470.9	1,457.6	7.8	0.0	-157.50	-26.5	323.4	455.5	448.2	7.32	62.239		
1,700.0	1,687.6	1,546.7	1,529.6	8.1	0.0	-157.48	-31.4	346.5	502.9	495.4	7.53	66.773		
1,800.0	1,785.6	1,620.4	1,598.9	8.4	0.0	-157.41	-36.6	370.8	552.5	544.8	7.74	71.371		
1,900.0	1,883.6	1,704.4	1,677.6	8.7	0.0	-157.31	-42.8	399.7	603.5	595.5	8.02	75.297		
2,000.0	1,981.6	1,790.4	1,758.1	9.0	0.0	-157.22	-49.1	429.3	654.5	646.2	8.31	78.809		
2,100.0	2,079.6	1,876.4	1,838.6	9.4	0.0	-157.14	-55.5	458.9	705.5	696.9	8.60	82.033		
2,200.0	2,177.5	1,962.4	1,919.1	9.7	0.0	-157.07	-61.8	488.5	756.5	747.6	8.90	84.997		
2,300.0	2,275.5	2,048.5	1,999.6	10.1	0.0	-157.01	-68.2	518.2	807.5	798.3	9.20	87.728		
2,400.0	2,373.5	2,134.5	2,080.1	10.5	0.0	-156.96	-74.5	547.8	858.5	849.0	9.51	90.247		
2,500.0	2,471.5	2,220.5	2,160.6	10.9	0.0	-156.92	-80.9	577.4	909.5	899.7	9.82	92.575		
2,600.0	2,569.5	2,306.5	2,241.1	11.3	0.0	-156.88	-87.2	607.0	960.5	950.4	10.14	94.730		
2,700.0	2,667.5	2,392.5	2,321.6	11.7	0.0	-156.84	-93.6	636.7	1,011.5	1,001.0	10.46	96.728		
2,800.0	2,765.5	2,478.5	2,402.1	12.2	0.0	-156.80	-99.9	666.3	1,062.5	1,051.7	10.78	98.584		
2,900.0	2,863.5	2,564.6	2,482.6	12.6	0.0	-156.77	-106.2	695.9	1,113.5	1,102.4	11.10	100.311		
3,000.0	2,961.5	2,650.6	2,563.1	13.1	0.0	-156.75	-112.6	725.5	1,164.5	1,153.1	11.43	101.919		
3,100.0	3,059.5	2,736.6	2,643.7	13.6	0.0	-156.72	-118.9	755.1	1,215.5	1,203.7	11.75	103.421		
3,200.0	3,157.4	2,822.6	2,724.2	14.0	0.0	-156.70	-125.3	784.8	1,266.5	1,254.4	12.08	104.824		
3,300.0	3,255.4	2,908.6	2,804.7	14.5	0.0	-156.68	-131.6	814.4	1,317.5	1,305.1	12.41	106.137		
3,400.0	3,353.4	2,994.6	2,885.2	15.0	0.0	-156.66	-138.0	844.0	1,368.5	1,355.7	12.75	107.368		
3,500.0	3,451.4	3,080.7	2,965.7	15.5	0.0	-156.64	-144.3	873.6	1,419.5	1,406.4	13.08	108.524		
3,600.0	3,549.4	3,166.7	3,046.2	16.0	0.0	-156.62	-150.6	903.2	1,470.5	1,457.1	13.42	109.610		
3,700.0	3,647.4	3,252.7	3,126.7	16.4	0.0	-156.60	-157.0	932.9	1,521.5	1,507.7	13.75	110.632		
3,800.0	3,745.4	3,338.7	3,207.2	16.9	0.0	-156.59	-163.3	962.5	1,572.5	1,558.4	14.09	111.595		
3,900.0	3,843.4	3,424.7	3,287.7	17.4	0.0	-156.58	-169.7	992.1	1,623.5	1,609.1	14.43	112.503		
4,000.0	3,941.4	3,510.7	3,368.2	17.9	0.0	-156.56	-176.0	1,021.7	1,674.5	1,659.7	14.77	113.361		
4,100.0	4,039.3	3,596.8	3,448.7	18.4	0.0	-156.55	-182.4	1,051.3	1,725.5	1,710.4	15.11	114.172		
4,200.0	4,137.3	3,682.8	3,529.2	18.9	0.0	-156.54	-188.7	1,081.0	1,776.5	1,761.0	15.46	114.939		
4,300.0	4,235.3	3,768.8	3,609.7	19.4	0.0	-156.53	-195.1	1,110.6	1,827.5	1,811.7	15.80	115.666		
4,400.0	4,333.3	3,854.8	3,690.2	19.9	0.0	-156.52	-201.4	1,140.2	1,878.5	1,862.3	16.14	116.355		
4,500.0	4,431.3	3,940.8	3,770.7	20.4	0.0	-156.51	-207.7	1,169.8	1,929.5	1,913.0	16.49	117.008		
4,600.0	4,529.3	4,026.8	3,851.2	20.9	0.0	-156.50	-214.1	1,199.5	1,980.5	1,963.7	16.84	117.629		
4,700.0	4,627.3	4,112.9	3,931.7	21.4	0.0	-156.49	-220.4	1,229.1	2,031.5	2,014.3	17.18	118.219		
4,800.0	4,725.3	4,198.9	4,012.3	21.8	0.0	-156.48	-226.8	1,258.7	2,082.5	2,065.0	17.53	118.781		
4,900.0	4,823.3	4,284.9	4,092.8	22.3	0.0	-156.47	-233.1	1,288.3	2,133.5	2,115.6	17.88	119.315		
5,000.0	4,921.2	4,370.9	4,173.3	22.8	0.0	-156.46	-239.5	1,317.9	2,184.5	2,166.3	18.23	119.824		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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							
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
0.0	0.0	0.0	0.0	0.0	0.0	89.71	0.9	179.9	180.0				
100.0	100.0	100.0	100.0	0.4	0.0	89.71	0.9	179.9	180.0	179.7	0.28	649.677	
200.0	200.0	200.0	200.0	1.0	0.0	89.71	0.9	179.9	180.0	179.2	0.80	225.570	
300.0	300.0	300.0	300.0	1.5	0.0	89.71	0.9	179.9	180.0	178.7	1.22	146.978	
400.0	400.0	400.0	400.0	1.9	0.0	89.71	0.9	179.9	180.0	178.3	1.62	111.204	
500.0	500.0	500.0	500.0	2.3	0.0	89.71	0.9	179.9	180.0	178.0	2.00	90.030	
600.0	600.0	600.0	600.0	2.7	0.0	89.71	0.9	179.9	180.0	177.6	2.37	75.849	
700.0	700.0	700.0	700.0	3.1	0.0	89.71	0.9	179.9	180.0	177.2	2.74	65.624 CC, ES	
800.0	800.0	794.2	794.1	3.4	0.0	-156.59	0.6	181.5	183.1	180.0	3.17	57.831	
900.0	899.8	887.7	887.6	4.3	0.0	-156.77	-0.5	185.9	192.7	188.5	4.19	45.981	
1,000.0	999.5	980.2	979.7	5.2	0.0	-157.02	-2.2	193.3	208.6	203.6	5.02	41.523	
1,100.0	1,098.7	1,070.9	1,069.9	5.9	0.0	-157.30	-4.6	203.3	230.7	225.0	5.74	40.184 SF	
1,200.0	1,197.5	1,159.6	1,157.6	6.6	0.0	-157.57	-7.6	215.7	258.9	252.5	6.38	40.605	
1,300.0	1,295.6	1,245.6	1,242.3	7.0	0.0	-157.85	-11.0	230.4	292.8	286.1	6.75	43.408	
1,400.0	1,393.6	1,329.5	1,324.5	7.2	0.0	-158.16	-15.0	247.0	330.3	323.3	6.95	47.548	
1,500.0	1,491.6	1,411.5	1,404.3	7.5	0.0	-158.30	-19.3	265.5	370.3	363.2	7.17	51.655	
1,600.0	1,589.6	1,491.6	1,481.5	7.8	0.0	-158.31	-24.1	285.7	412.9	405.5	7.39	55.865	
1,700.0	1,687.6	1,569.5	1,556.3	8.1	0.0	-158.23	-29.3	307.4	457.8	450.2	7.61	60.163	
1,800.0	1,785.6	1,645.5	1,628.4	8.4	0.0	-158.10	-34.7	330.4	505.0	497.1	7.82	64.538	
1,900.0	1,883.6	1,724.2	1,702.6	8.7	0.0	-157.91	-40.8	356.1	554.2	546.2	8.06	68.730	
2,000.0	1,981.6	1,811.0	1,784.2	9.0	0.0	-157.73	-47.6	384.7	603.9	595.6	8.36	72.283	
2,100.0	2,079.6	1,897.7	1,865.8	9.4	0.0	-157.57	-54.4	413.4	653.6	645.0	8.65	75.549	
2,200.0	2,177.5	1,984.5	1,947.4	9.7	0.0	-157.44	-61.2	442.1	703.3	694.4	8.95	78.554	
2,300.0	2,275.5	2,071.2	2,029.0	10.1	0.0	-157.32	-68.0	470.8	753.1	743.8	9.26	81.324	
2,400.0	2,373.5	2,158.0	2,110.6	10.5	0.0	-157.22	-74.7	499.4	802.8	793.2	9.57	83.882	
2,500.0	2,471.5	2,244.7	2,192.2	10.9	0.0	-157.13	-81.5	528.1	852.5	842.6	9.88	86.247	
2,600.0	2,569.5	2,331.5	2,273.8	11.3	0.0	-157.05	-88.3	556.8	902.2	892.0	10.20	88.438	
2,700.0	2,667.5	2,418.3	2,355.4	11.7	0.0	-156.98	-95.1	585.5	951.9	941.4	10.52	90.471	
2,800.0	2,765.5	2,505.0	2,437.0	12.2	0.0	-156.91	-101.9	614.1	1,001.7	990.8	10.85	92.360	
2,900.0	2,863.5	2,591.8	2,518.6	12.6	0.0	-156.85	-108.7	642.8	1,051.4	1,040.2	11.17	94.119	
3,000.0	2,961.5	2,678.5	2,600.2	13.1	0.0	-156.80	-115.5	671.5	1,101.1	1,089.6	11.50	95.759	
3,100.0	3,059.5	2,765.3	2,681.8	13.6	0.0	-156.75	-122.3	700.2	1,150.8	1,139.0	11.83	97.290	
3,200.0	3,157.4	2,852.0	2,763.4	14.0	0.0	-156.71	-129.1	728.8	1,200.5	1,188.4	12.16	98.723	
3,300.0	3,255.4	2,938.8	2,845.0	14.5	0.0	-156.67	-135.9	757.5	1,250.3	1,237.8	12.49	100.064	
3,400.0	3,353.4	3,025.6	2,926.6	15.0	0.0	-156.63	-142.7	786.2	1,300.0	1,287.2	12.83	101.323	
3,500.0	3,451.4	3,112.3	3,008.2	15.5	0.0	-156.59	-149.5	814.9	1,349.7	1,336.6	13.17	102.504	
3,600.0	3,549.4	3,199.1	3,089.8	16.0	0.0	-156.56	-156.2	843.5	1,399.4	1,385.9	13.51	103.616	
3,700.0	3,647.4	3,285.8	3,171.4	16.4	0.0	-156.53	-163.0	872.2	1,449.2	1,435.3	13.85	104.663	
3,800.0	3,745.4	3,372.6	3,253.0	16.9	0.0	-156.50	-169.8	900.9	1,498.9	1,484.7	14.19	105.650	
3,900.0	3,843.4	3,459.3	3,334.6	17.4	0.0	-156.47	-176.6	929.6	1,548.6	1,534.1	14.53	106.581	
4,000.0	3,941.4	3,546.1	3,416.2	17.9	0.0	-156.45	-183.4	958.2	1,598.4	1,583.5	14.87	107.461	
4,100.0	4,039.3	3,632.9	3,497.8	18.4	0.0	-156.43	-190.2	986.9	1,648.1	1,632.9	15.22	108.294	
4,200.0	4,137.3	3,719.6	3,579.4	18.9	0.0	-156.40	-197.0	1,015.6	1,697.8	1,682.2	15.56	109.083	
4,300.0	4,235.3	3,806.4	3,661.0	19.4	0.0	-156.38	-203.8	1,044.3	1,747.5	1,731.6	15.91	109.830	
4,400.0	4,333.3	3,893.1	3,742.6	19.9	0.0	-156.36	-210.6	1,072.9	1,797.3	1,781.0	16.26	110.539	
4,500.0	4,431.3	3,979.9	3,824.2	20.4	0.0	-156.34	-217.4	1,101.6	1,847.0	1,830.4	16.61	111.213	
4,600.0	4,529.3	4,066.6	3,905.8	20.9	0.0	-156.33	-224.2	1,130.3	1,896.7	1,879.8	16.96	111.853	
4,700.0	4,627.3	4,153.4	3,987.4	21.4	0.0	-156.31	-231.0	1,159.0	1,946.4	1,929.1	17.31	112.461	
4,800.0	4,725.3	4,240.2	4,069.0	21.8	0.0	-156.29	-237.7	1,187.6	1,996.2	1,978.5	17.66	113.041	
4,900.0	4,823.3	4,326.9	4,150.6	22.3	0.0	-156.28	-244.5	1,216.3	2,045.9	2,027.9	18.01	113.593	
5,000.0	4,921.2	4,413.7	4,232.2	22.8	0.0	-156.27	-251.3	1,245.0	2,095.6	2,077.3	18.36	114.120	
5,100.0	5,019.2	4,500.4	4,313.8	23.3	0.0	-156.25	-258.1	1,273.7	2,145.4	2,126.6	18.72	114.622	

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 19-18-1NXH
<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 19-18-1NXH	<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 - CONNER 19-18-4NXH - OH - PLAN #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 0-												<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	
5,200.0	5,117.2	4,587.2	4,395.4	23.8	0.0	-156.24	-264.9	1,302.3	2,195.1	2,176.0	19.07	115.101	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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		
14,100.0	7,272.0	7,203.0	7,203.0	121.5	26.8	90.00	8,133.2	150.1	2,186.3	2,065.5	120.76	18.104		
14,200.0	7,272.0	7,203.0	7,203.0	123.2	26.8	90.00	8,133.2	150.1	2,112.6	1,988.5	124.18	17.013		
14,300.0	7,272.0	7,203.0	7,203.0	125.0	26.8	90.00	8,133.2	150.1	2,041.3	1,913.5	127.75	15.979		
14,400.0	7,272.0	7,203.0	7,203.0	126.7	26.8	90.00	8,133.2	150.1	1,972.4	1,840.9	131.47	15.003		
14,500.0	7,272.0	7,203.0	7,203.0	128.4	26.8	90.00	8,133.2	150.1	1,906.3	1,770.9	135.33	14.086		
14,600.0	7,272.0	7,203.0	7,203.0	130.1	26.8	90.00	8,133.2	150.1	1,843.2	1,703.9	139.30	13.232		
14,700.0	7,272.0	7,203.0	7,203.0	131.8	26.8	90.00	8,133.2	150.1	1,783.5	1,640.1	143.36	12.441		
14,800.0	7,272.0	7,203.0	7,203.0	133.5	26.8	90.00	8,133.2	150.1	1,727.5	1,580.1	147.46	11.715		
14,900.0	7,272.0	7,203.0	7,203.0	135.2	26.8	90.00	8,133.2	150.1	1,675.7	1,524.1	151.56	11.056		
15,000.0	7,272.0	7,203.0	7,203.0	137.0	26.8	90.00	8,133.2	150.1	1,628.3	1,472.7	155.59	10.465		
15,100.0	7,272.0	7,203.0	7,203.0	138.7	26.8	90.00	8,133.2	150.1	1,585.8	1,426.4	159.48	9.944		
15,200.0	7,272.0	7,203.0	7,203.0	140.4	26.8	90.00	8,133.2	150.1	1,548.7	1,385.5	163.14	9.493		
15,300.0	7,272.0	7,203.0	7,203.0	142.1	26.8	90.00	8,133.2	150.1	1,517.2	1,350.7	166.48	9.113		
15,400.0	7,272.0	7,203.0	7,203.0	143.8	26.8	90.00	8,133.2	150.1	1,491.8	1,322.4	169.42	8.806		
15,500.0	7,272.0	7,203.0	7,203.0	145.6	26.8	90.00	8,133.2	150.1	1,472.7	1,300.9	171.85	8.570		
15,600.0	7,272.0	7,203.0	7,203.0	147.3	26.8	90.00	8,133.2	150.1	1,460.3	1,286.6	173.71	8.407		
15,700.0	7,272.0	7,203.0	7,203.0	149.0	26.8	90.00	8,133.2	150.1	1,454.6	1,279.7	174.94	8.315		
15,732.4	7,272.0	7,203.0	7,203.0	149.6	26.8	90.00	8,133.2	150.1	1,454.3	1,279.1	175.20	8.301 CC, ES		
15,800.0	7,272.0	7,203.0	7,203.0	150.7	26.8	90.00	8,133.2	150.1	1,455.9	1,280.3	175.51	8.295 SF		
15,900.0	7,272.0	7,203.0	7,203.0	152.5	26.8	90.00	8,133.2	150.1	1,463.9	1,288.5	175.40	8.346		
16,000.0	7,272.0	7,203.0	7,203.0	154.2	26.8	90.00	8,133.2	150.1	1,478.7	1,304.0	174.66	8.466		
16,100.0	7,272.0	7,203.0	7,203.0	155.9	26.8	90.00	8,133.2	150.1	1,500.0	1,326.7	173.33	8.654		
16,200.0	7,272.0	7,203.0	7,203.0	157.7	26.8	90.00	8,133.2	150.1	1,527.6	1,356.1	171.46	8.909		
16,300.0	7,272.0	7,203.0	7,203.0	159.4	26.8	90.00	8,133.2	150.1	1,561.1	1,392.0	169.16	9.229		
16,400.0	7,272.0	7,203.0	7,203.0	161.1	26.8	90.00	8,133.2	150.1	1,600.2	1,433.7	166.50	9.611		
16,500.0	7,272.0	7,203.0	7,203.0	162.9	26.8	90.00	8,133.2	150.1	1,644.4	1,480.9	163.56	10.054		
16,600.0	7,272.0	7,203.0	7,203.0	164.6	26.8	90.00	8,133.2	150.1	1,693.4	1,533.0	160.44	10.555		
16,700.0	7,272.0	7,203.0	7,203.0	166.3	26.8	90.00	8,133.2	150.1	1,746.7	1,589.6	157.19	11.113		
16,800.0	7,272.0	7,203.0	7,203.0	168.1	26.8	90.00	8,133.2	150.1	1,804.1	1,650.2	153.88	11.724		
16,900.0	7,272.0	7,203.0	7,203.0	169.8	26.8	90.00	8,133.2	150.1	1,865.0	1,714.4	150.57	12.386		
17,000.0	7,272.0	7,203.0	7,203.0	171.5	26.8	90.00	8,133.2	150.1	1,929.2	1,781.9	147.28	13.098		
17,100.0	7,272.0	7,203.0	7,203.0	173.3	26.8	90.00	8,133.2	150.1	1,996.3	1,852.2	144.06	13.857		
17,200.0	7,272.0	7,203.0	7,203.0	175.0	26.8	90.00	8,133.2	150.1	2,066.1	1,925.2	140.93	14.661		
17,270.0	7,272.0	7,203.0	7,203.0	176.2	26.8	90.00	8,133.2	150.1	2,116.4	1,977.6	138.79	15.248		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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 Smith #1 (PR) - EXISTING - NO SURVEYS (PR)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													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	
15,200.0	7,272.0	7,203.0	7,203.0	140.4	26.8	-90.00	9,758.4	-1,431.2	2,184.2	2,124.0	60.19	36.290		
15,300.0	7,272.0	7,203.0	7,203.0	142.1	26.8	-90.00	9,758.4	-1,431.2	2,084.3	2,024.2	60.15	34.653		
15,400.0	7,272.0	7,203.0	7,203.0	143.8	26.8	-90.00	9,758.4	-1,431.2	1,984.5	1,924.3	60.11	33.016		
15,500.0	7,272.0	7,203.0	7,203.0	145.6	26.8	-90.00	9,758.4	-1,431.2	1,884.6	1,824.5	60.06	31.380		
15,600.0	7,272.0	7,203.0	7,203.0	147.3	26.8	-90.00	9,758.4	-1,431.2	1,784.7	1,724.7	60.01	29.742		
15,700.0	7,272.0	7,203.0	7,203.0	149.0	26.8	-90.00	9,758.4	-1,431.2	1,684.9	1,625.0	59.95	28.103		
15,800.0	7,272.0	7,203.0	7,203.0	150.7	26.8	-90.00	9,758.4	-1,431.2	1,585.1	1,525.2	59.90	26.463		
15,900.0	7,272.0	7,203.0	7,203.0	152.5	26.8	-90.00	9,758.4	-1,431.2	1,485.3	1,425.5	59.85	24.819		
16,000.0	7,272.0	7,203.0	7,203.0	154.2	26.8	-90.00	9,758.4	-1,431.2	1,385.6	1,325.8	59.80	23.171		
16,100.0	7,272.0	7,203.0	7,203.0	155.9	26.8	-90.00	9,758.4	-1,431.2	1,285.9	1,226.1	59.76	21.517		
16,200.0	7,272.0	7,203.0	7,203.0	157.7	26.8	-90.00	9,758.4	-1,431.2	1,186.2	1,126.5	59.75	19.854		
16,300.0	7,272.0	7,203.0	7,203.0	159.4	26.8	-90.00	9,758.4	-1,431.2	1,086.6	1,026.8	59.77	18.180		
16,400.0	7,272.0	7,203.0	7,203.0	161.1	26.8	-90.00	9,758.4	-1,431.2	987.1	927.2	59.86	16.490		
16,500.0	7,272.0	7,203.0	7,203.0	162.9	26.8	-90.00	9,758.4	-1,431.2	887.7	827.6	60.07	14.778		
16,600.0	7,272.0	7,203.0	7,203.0	164.6	26.8	-90.00	9,758.4	-1,431.2	788.4	728.0	60.48	13.036		
16,700.0	7,272.0	7,203.0	7,203.0	166.3	26.8	-90.00	9,758.4	-1,431.2	689.4	628.1	61.26	11.254		
16,800.0	7,272.0	7,203.0	7,203.0	168.1	26.8	-90.00	9,758.4	-1,431.2	590.7	528.0	62.71	9.420		
16,900.0	7,272.0	7,203.0	7,203.0	169.8	26.8	-90.00	9,758.4	-1,431.2	492.5	427.0	65.43	7.526		
17,000.0	7,272.0	7,203.0	7,203.0	171.5	26.8	-90.00	9,758.4	-1,431.2	395.2	324.5	70.70	5.589		
17,100.0	7,272.0	7,203.0	7,203.0	173.3	26.8	-90.00	9,758.4	-1,431.2	299.7	218.3	81.36	3.683		
17,200.0	7,272.0	7,203.0	7,203.0	175.0	26.8	-90.00	9,758.4	-1,431.2	208.4	104.0	104.38	1.996		
17,270.0	7,272.0	7,203.0	7,203.0	176.2	26.8	-90.00	9,758.4	-1,431.2	151.2	14.9	136.29	1.109	Level 2, CC, ES, SF	



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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		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)		+N/-S (usft)	+E/-W (usft)						
11,400.0	7,272.0	7,203.0	7,203.0	76.5	26.8	90.00	5,916.1	-919.4	2,160.7	2,094.0	66.69	32.397		
11,500.0	7,272.0	7,203.0	7,203.0	78.1	26.8	90.00	5,916.1	-919.4	2,062.1	1,994.9	67.25	30.665		
11,600.0	7,272.0	7,203.0	7,203.0	79.7	26.8	90.00	5,916.1	-919.4	1,963.6	1,895.8	67.86	28.937		
11,700.0	7,272.0	7,203.0	7,203.0	81.3	26.8	90.00	5,916.1	-919.4	1,865.3	1,796.8	68.55	27.212		
11,800.0	7,272.0	7,203.0	7,203.0	83.0	26.8	90.00	5,916.1	-919.4	1,767.2	1,697.9	69.32	25.494		
11,900.0	7,272.0	7,203.0	7,203.0	84.6	26.8	90.00	5,916.1	-919.4	1,669.3	1,599.1	70.20	23.781		
12,000.0	7,272.0	7,203.0	7,203.0	86.3	26.8	90.00	5,916.1	-919.4	1,571.7	1,500.5	71.19	22.077		
12,100.0	7,272.0	7,203.0	7,203.0	87.9	26.8	90.00	5,916.1	-919.4	1,474.4	1,402.0	72.34	20.382		
12,200.0	7,272.0	7,203.0	7,203.0	89.6	26.8	90.00	5,916.1	-919.4	1,377.5	1,303.8	73.66	18.700		
12,300.0	7,272.0	7,203.0	7,203.0	91.2	26.8	90.00	5,916.1	-919.4	1,281.0	1,205.8	75.21	17.033		
12,400.0	7,272.0	7,203.0	7,203.0	92.9	26.8	90.00	5,916.1	-919.4	1,185.1	1,108.1	77.02	15.387		
12,500.0	7,272.0	7,203.0	7,203.0	94.5	26.8	90.00	5,916.1	-919.4	1,090.0	1,010.8	79.18	13.766		
12,600.0	7,272.0	7,203.0	7,203.0	96.2	26.8	90.00	5,916.1	-919.4	995.9	914.1	81.78	12.178		
12,700.0	7,272.0	7,203.0	7,203.0	97.9	26.8	90.00	5,916.1	-919.4	903.0	818.0	84.92	10.633		
12,800.0	7,272.0	7,203.0	7,203.0	99.5	26.8	90.00	5,916.1	-919.4	811.7	723.0	88.78	9.143		
12,900.0	7,272.0	7,203.0	7,203.0	101.2	26.8	90.00	5,916.1	-919.4	722.8	629.3	93.55	7.727		
13,000.0	7,272.0	7,203.0	7,203.0	102.9	26.8	90.00	5,916.1	-919.4	637.2	537.8	99.48	6.406		
13,100.0	7,272.0	7,203.0	7,203.0	104.6	26.8	90.00	5,916.1	-919.4	556.5	449.7	106.80	5.211		
13,200.0	7,272.0	7,203.0	7,203.0	106.3	26.8	90.00	5,916.1	-919.4	483.0	367.4	115.58	4.179		
13,300.0	7,272.0	7,203.0	7,203.0	108.0	26.8	90.00	5,916.1	-919.4	420.5	295.3	125.26	3.357		
13,400.0	7,272.0	7,203.0	7,203.0	109.6	26.8	90.00	5,916.1	-919.4	374.7	240.9	133.86	2.799		
13,500.0	7,272.0	7,203.0	7,203.0	111.3	26.8	90.00	5,916.1	-919.4	352.1	214.5	137.65	2.558		
13,532.1	7,272.0	7,203.0	7,203.0	111.9	26.8	90.00	5,916.1	-919.4	350.7	213.4	137.26	2.555 CC, ES, SF		
13,600.0	7,272.0	7,203.0	7,203.0	113.0	26.8	90.00	5,916.1	-919.4	357.2	223.5	133.72	2.671		
13,700.0	7,272.0	7,203.0	7,203.0	114.7	26.8	90.00	5,916.1	-919.4	388.8	265.3	123.55	3.147		
13,800.0	7,272.0	7,203.0	7,203.0	116.4	26.8	90.00	5,916.1	-919.4	441.3	329.9	111.43	3.960		
13,900.0	7,272.0	7,203.0	7,203.0	118.1	26.8	90.00	5,916.1	-919.4	508.3	407.9	100.36	5.065		
14,000.0	7,272.0	7,203.0	7,203.0	119.8	26.8	90.00	5,916.1	-919.4	584.7	493.4	91.32	6.403		
14,100.0	7,272.0	7,203.0	7,203.0	121.5	26.8	90.00	5,916.1	-919.4	667.5	583.2	84.28	7.919		
14,200.0	7,272.0	7,203.0	7,203.0	123.2	26.8	90.00	5,916.1	-919.4	754.4	675.5	78.88	9.564		
14,300.0	7,272.0	7,203.0	7,203.0	125.0	26.8	90.00	5,916.1	-919.4	844.2	769.5	74.73	11.296		
14,400.0	7,272.0	7,203.0	7,203.0	126.7	26.8	90.00	5,916.1	-919.4	936.1	864.5	71.55	13.084		
14,500.0	7,272.0	7,203.0	7,203.0	128.4	26.8	90.00	5,916.1	-919.4	1,029.5	960.4	69.08	14.903		
14,600.0	7,272.0	7,203.0	7,203.0	130.1	26.8	90.00	5,916.1	-919.4	1,124.0	1,056.9	67.16	16.737		
14,700.0	7,272.0	7,203.0	7,203.0	131.8	26.8	90.00	5,916.1	-919.4	1,219.4	1,153.8	65.65	18.575		
14,800.0	7,272.0	7,203.0	7,203.0	133.5	26.8	90.00	5,916.1	-919.4	1,315.5	1,251.1	64.46	20.408		
14,900.0	7,272.0	7,203.0	7,203.0	135.2	26.8	90.00	5,916.1	-919.4	1,412.2	1,348.6	63.52	22.232		
15,000.0	7,272.0	7,203.0	7,203.0	137.0	26.8	90.00	5,916.1	-919.4	1,509.2	1,446.5	62.77	24.043		
15,100.0	7,272.0	7,203.0	7,203.0	138.7	26.8	90.00	5,916.1	-919.4	1,606.7	1,544.5	62.17	25.841		
15,200.0	7,272.0	7,203.0	7,203.0	140.4	26.8	90.00	5,916.1	-919.4	1,704.4	1,642.7	61.70	27.625		
15,300.0	7,272.0	7,203.0	7,203.0	142.1	26.8	90.00	5,916.1	-919.4	1,802.4	1,741.0	61.32	29.395		
15,400.0	7,272.0	7,203.0	7,203.0	143.8	26.8	90.00	5,916.1	-919.4	1,900.6	1,839.5	61.01	31.151		
15,500.0	7,272.0	7,203.0	7,203.0	145.6	26.8	90.00	5,916.1	-919.4	1,998.9	1,938.2	60.77	32.893		
15,600.0	7,272.0	7,203.0	7,203.0	147.3	26.8	90.00	5,916.1	-919.4	2,097.4	2,036.9	60.58	34.623		
15,700.0	7,272.0	7,203.0	7,203.0	149.0	26.8	90.00	5,916.1	-919.4	2,196.1	2,135.7	60.43	36.341		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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		
10,000.0	7,272.0	7,203.0	7,203.0	54.9	26.8	90.00	3,157.4	838.6	2,196.7	2,115.1	81.56	26.932		
10,100.0	7,272.0	7,203.0	7,203.0	56.4	26.8	90.00	3,157.4	838.6	2,164.7	2,081.7	83.00	26.081		
10,200.0	7,272.0	7,203.0	7,203.0	57.9	26.8	90.00	3,157.4	838.6	2,137.0	2,052.6	84.41	25.318		
10,300.0	7,272.0	7,203.0	7,203.0	59.3	26.8	90.00	3,157.4	838.6	2,113.6	2,027.8	85.77	24.643		
10,400.0	7,272.0	7,203.0	7,203.0	60.8	26.8	90.00	3,157.4	838.6	2,094.8	2,007.7	87.07	24.058		
10,500.0	7,272.0	7,203.0	7,203.0	62.4	26.8	90.00	3,157.4	838.6	2,080.6	1,992.3	88.30	23.562		
10,600.0	7,272.0	7,203.0	7,203.0	63.9	26.8	90.00	3,157.4	838.6	2,071.1	1,981.6	89.44	23.156		
10,700.0	7,272.0	7,203.0	7,203.0	65.4	26.8	90.00	3,157.4	838.6	2,066.4	1,975.9	90.48	22.838		
10,746.6	7,272.0	7,203.0	7,203.0	66.2	26.8	90.00	3,157.4	838.6	2,065.9	1,975.0	90.93	22.720 CC, ES		
10,800.0	7,272.0	7,203.0	7,203.0	67.0	26.8	90.00	3,157.4	838.6	2,066.6	1,975.2	91.41	22.608		
10,900.0	7,272.0	7,203.0	7,203.0	68.5	26.8	90.00	3,157.4	838.6	2,071.6	1,979.4	92.22	22.464		
11,000.0	7,272.0	7,203.0	7,203.0	70.1	26.8	90.00	3,157.4	838.6	2,081.4	1,988.5	92.91	22.403 SF		
11,100.0	7,272.0	7,203.0	7,203.0	71.7	26.8	90.00	3,157.4	838.6	2,095.9	2,002.4	93.47	22.424		
11,200.0	7,272.0	7,203.0	7,203.0	73.3	26.8	90.00	3,157.4	838.6	2,115.1	2,021.2	93.90	22.524		
11,300.0	7,272.0	7,203.0	7,203.0	74.9	26.8	90.00	3,157.4	838.6	2,138.7	2,044.5	94.22	22.699		
11,400.0	7,272.0	7,203.0	7,203.0	76.5	26.8	90.00	3,157.4	838.6	2,166.8	2,072.3	94.42	22.948		
11,500.0	7,272.0	7,203.0	7,203.0	78.1	26.8	90.00	3,157.4	838.6	2,199.0	2,104.5	94.51	23.266		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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	-40.90	1,024.0	-887.1	1,356.6					
100.0	100.0	31.0	31.0	0.4	0.3	-40.90	1,024.0	-887.1	1,354.8	1,354.6	0.27	5,006.900		
200.0	200.0	131.0	131.0	1.0	1.1	-40.90	1,024.0	-887.1	1,354.8	1,353.8	1.00	1,358.600		
300.0	300.0	231.0	231.0	1.5	1.5	-40.90	1,024.0	-887.1	1,354.8	1,353.1	1.71	791.170		
400.0	400.0	331.0	331.0	1.9	1.9	-40.90	1,024.0	-887.1	1,354.8	1,352.4	2.43	557.824		
500.0	500.0	431.0	431.0	2.3	2.3	-40.90	1,024.0	-887.1	1,354.8	1,351.7	3.15	430.729		
600.0	600.0	531.0	531.0	2.7	2.7	-40.90	1,024.0	-887.1	1,354.8	1,351.0	3.86	350.790		
700.0	700.0	631.0	631.0	3.1	3.1	-40.90	1,024.0	-887.1	1,354.8	1,350.3	4.58	295.874		
800.0	800.0	731.0	731.0	3.4	3.5	72.95	1,024.0	-887.1	1,354.3	1,349.0	5.36	252.460		
900.0	899.8	830.8	830.8	4.3	3.9	73.19	1,024.0	-887.1	1,352.8	1,346.5	6.30	214.752		
1,000.0	999.5	930.5	930.5	5.2	4.2	73.59	1,024.0	-887.1	1,350.3	1,343.1	7.18	188.115		
1,100.0	1,098.7	1,029.7	1,029.7	5.9	4.6	74.15	1,024.0	-887.1	1,346.9	1,338.9	8.02	167.905		
1,200.0	1,197.5	1,128.5	1,128.5	6.6	5.0	74.87	1,024.0	-887.1	1,342.7	1,333.8	8.84	151.814		
1,300.0	1,295.6	1,226.6	1,226.6	7.0	5.3	75.71	1,024.0	-887.1	1,337.8	1,328.2	9.59	139.565		
1,400.0	1,393.6	1,324.6	1,324.6	7.2	5.7	76.52	1,024.0	-887.1	1,332.9	1,322.6	10.31	129.328		
1,500.0	1,491.6	1,422.6	1,422.6	7.5	6.0	77.34	1,024.0	-887.1	1,328.3	1,317.2	11.07	119.949		
1,600.0	1,589.6	1,520.6	1,520.6	7.8	6.4	78.17	1,024.0	-887.1	1,324.0	1,312.1	11.85	111.695		
1,700.0	1,687.6	1,618.6	1,618.6	8.1	6.7	79.00	1,024.0	-887.1	1,319.9	1,307.3	12.64	104.398		
1,800.0	1,785.6	1,716.6	1,716.6	8.4	7.1	79.84	1,024.0	-887.1	1,316.2	1,302.8	13.44	97.918		
1,900.0	1,883.6	1,814.6	1,814.6	8.7	7.4	80.68	1,024.0	-887.1	1,312.8	1,298.5	14.25	92.139		
2,000.0	1,981.6	1,912.6	1,912.6	9.0	7.8	81.52	1,024.0	-887.1	1,309.6	1,294.6	15.06	86.963		
2,100.0	2,079.6	2,010.6	2,010.6	9.4	8.2	82.37	1,024.0	-887.1	1,306.8	1,290.9	15.88	82.308		
2,200.0	2,177.5	2,108.5	2,108.5	9.7	8.5	83.22	1,024.0	-887.1	1,304.2	1,287.5	16.70	78.106		
2,300.0	2,275.5	2,206.5	2,206.5	10.1	8.9	84.08	1,024.0	-887.1	1,302.0	1,284.4	17.52	74.298		
2,400.0	2,373.5	2,304.5	2,304.5	10.5	9.2	84.93	1,024.0	-887.1	1,300.0	1,281.7	18.35	70.838		
2,500.0	2,471.5	2,402.5	2,402.5	10.9	9.6	85.79	1,024.0	-887.1	1,298.4	1,279.2	19.18	67.683		
2,600.0	2,569.5	2,500.5	2,500.5	11.3	9.9	86.66	1,024.0	-887.1	1,297.0	1,277.0	20.02	64.797		
2,700.0	2,667.5	2,598.5	2,598.5	11.7	10.3	87.52	1,024.0	-887.1	1,296.0	1,275.1	20.85	62.152		
2,800.0	2,765.5	2,696.5	2,696.5	12.2	10.6	88.38	1,024.0	-887.1	1,295.3	1,273.6	21.69	59.720		
2,900.0	2,863.5	2,794.5	2,794.5	12.6	11.0	89.25	1,024.0	-887.1	1,294.8	1,272.3	22.53	57.480		
2,987.0	2,948.8	2,879.8	2,879.8	13.0	11.3	90.00	1,024.0	-887.1	1,294.7	1,271.5	23.26	55.671		
3,000.0	2,961.5	2,892.5	2,892.5	13.1	11.3	90.11	1,024.0	-887.1	1,294.7	1,271.4	23.37	55.412		
3,100.0	3,059.5	2,990.5	2,990.5	13.6	11.7	90.98	1,024.0	-887.1	1,294.9	1,270.7	24.20	53.498		
3,200.0	3,157.4	3,088.4	3,088.4	14.0	12.0	91.84	1,024.0	-887.1	1,295.4	1,270.4	25.04	51.725		
3,300.0	3,255.4	3,186.4	3,186.4	14.5	12.4	92.71	1,024.0	-887.1	1,296.2	1,270.3	25.88	50.078		
3,400.0	3,353.4	3,284.4	3,284.4	15.0	12.7	93.57	1,024.0	-887.1	1,297.3	1,270.6	26.72	48.546		
3,500.0	3,451.4	3,382.4	3,382.4	15.5	13.1	94.43	1,024.0	-887.1	1,298.8	1,271.2	27.56	47.120		
3,600.0	3,549.4	3,480.4	3,480.4	16.0	13.4	95.29	1,024.0	-887.1	1,300.5	1,272.1	28.40	45.790		
3,700.0	3,647.4	3,578.4	3,578.4	16.4	13.8	96.15	1,024.0	-887.1	1,302.5	1,273.3	29.24	44.548		
3,800.0	3,745.4	3,676.4	3,676.4	16.9	14.2	97.00	1,024.0	-887.1	1,304.8	1,274.8	30.08	43.386		
3,900.0	3,843.4	3,774.4	3,774.4	17.4	14.5	97.85	1,024.0	-887.1	1,307.5	1,276.6	30.91	42.299		
4,000.0	3,941.4	3,872.4	3,872.4	17.9	14.9	98.70	1,024.0	-887.1	1,310.4	1,278.7	31.74	41.280		
4,100.0	4,039.3	3,970.3	3,970.3	18.4	15.2	99.54	1,024.0	-887.1	1,313.6	1,281.1	32.58	40.324		
4,200.0	4,137.3	4,068.3	4,068.3	18.9	15.6	100.38	1,024.0	-887.1	1,317.1	1,283.7	33.41	39.427		
4,300.0	4,235.3	4,166.3	4,166.3	19.4	15.9	101.21	1,024.0	-887.1	1,321.0	1,286.7	34.24	38.584		
4,400.0	4,333.3	4,264.3	4,264.3	19.9	16.3	102.04	1,024.0	-887.1	1,325.1	1,290.0	35.06	37.791		
4,500.0	4,431.3	4,362.3	4,362.3	20.4	16.6	102.87	1,024.0	-887.1	1,329.4	1,293.6	35.89	37.044		
4,600.0	4,529.3	4,460.3	4,460.3	20.9	17.0	103.69	1,024.0	-887.1	1,334.1	1,297.4	36.71	36.341		
4,700.0	4,627.3	4,558.3	4,558.3	21.4	17.3	104.50	1,024.0	-887.1	1,339.1	1,301.5	37.53	35.678		
4,800.0	4,725.3	4,656.3	4,656.3	21.8	17.7	105.31	1,024.0	-887.1	1,344.3	1,306.0	38.35	35.054		
4,900.0	4,823.3	4,754.3	4,754.3	22.3	18.0	106.11	1,024.0	-887.1	1,349.8	1,310.6	39.17	34.464		
5,000.0	4,921.2	4,852.2	4,852.2	22.8	18.4	106.91	1,024.0	-887.1	1,355.6	1,315.6	39.98	33.907		

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 19-18-1NXH
<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 19-18-1NXH	<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		
5,100.0	5,019.2	4,950.2	4,950.2	23.3	18.7	107.70	1,024.0	-887.1	1,361.6	1,320.8	40.79	33.381		
5,200.0	5,117.2	5,048.2	5,048.2	23.8	19.1	108.48	1,024.0	-887.1	1,367.9	1,326.3	41.60	32.884		
5,300.0	5,215.2	5,146.2	5,146.2	24.3	19.4	109.25	1,024.0	-887.1	1,374.5	1,332.1	42.40	32.414		
5,400.0	5,313.2	5,244.2	5,244.2	24.8	19.8	110.02	1,024.0	-887.1	1,381.3	1,338.1	43.21	31.970		
5,500.0	5,411.2	5,342.2	5,342.2	25.3	20.1	110.78	1,024.0	-887.1	1,388.4	1,344.4	44.01	31.549		
5,600.0	5,509.2	5,440.2	5,440.2	25.8	20.5	111.53	1,024.0	-887.1	1,395.7	1,350.9	44.81	31.150		
5,700.0	5,607.2	5,538.2	5,538.2	26.3	20.8	112.28	1,024.0	-887.1	1,403.3	1,357.7	45.60	30.773		
5,800.0	5,705.2	5,636.2	5,636.2	26.8	21.2	113.01	1,024.0	-887.1	1,411.1	1,364.7	46.39	30.416		
5,900.0	5,803.2	5,734.2	5,734.2	27.3	21.5	113.74	1,024.0	-887.1	1,419.2	1,372.0	47.18	30.077		
6,000.0	5,901.1	5,832.1	5,832.1	27.8	21.9	114.46	1,024.0	-887.1	1,427.5	1,379.5	47.97	29.756		
6,100.0	5,999.1	5,930.1	5,930.1	28.3	22.2	115.18	1,024.0	-887.1	1,436.0	1,387.2	48.76	29.452		
6,200.0	6,097.1	6,028.1	6,028.1	28.8	22.6	115.88	1,024.0	-887.1	1,444.7	1,395.2	49.54	29.163		
6,300.0	6,195.1	6,126.1	6,126.1	29.3	22.9	116.58	1,024.0	-887.1	1,453.7	1,403.4	50.32	28.890		
6,400.0	6,293.1	6,224.1	6,224.1	29.8	23.3	117.27	1,024.0	-887.1	1,462.9	1,411.8	51.10	28.630		
6,500.0	6,391.1	6,322.1	6,322.1	30.3	23.6	117.95	1,024.0	-887.1	1,472.3	1,420.4	51.87	28.383		
6,600.0	6,489.1	6,420.1	6,420.1	30.8	24.0	118.62	1,024.0	-887.1	1,481.9	1,429.2	52.64	28.149		
6,700.0	6,587.1	6,518.1	6,518.1	31.3	24.4	119.28	1,024.0	-887.1	1,491.7	1,438.3	53.41	27.927		
6,800.0	6,685.1	6,616.1	6,616.1	31.8	24.7	119.95	1,024.0	-887.1	1,501.3	1,447.2	54.18	27.710		
6,900.0	6,783.1	6,714.1	6,714.1	32.3	25.1	120.62	1,024.0	-887.1	1,499.4	1,444.3	55.15	27.189		
7,000.0	6,878.9	6,809.9	6,809.9	32.8	25.4	121.29	1,024.0	-887.1	1,480.6	1,424.5	56.16	26.367		
7,100.0	6,969.6	6,900.6	6,900.6	33.2	25.7	121.93	1,024.0	-887.1	1,445.6	1,388.6	57.05	25.338		
7,200.0	7,052.3	6,983.3	6,983.3	33.5	26.0	122.58	1,024.0	-887.1	1,395.6	1,337.7	57.84	24.129		
7,300.0	7,124.6	7,055.6	7,055.6	33.7	26.3	123.19	1,024.0	-887.1	1,332.1	1,273.6	58.50	22.771		
7,400.0	7,184.2	7,115.2	7,115.2	33.8	26.5	123.73	1,024.0	-887.1	1,257.2	1,198.2	59.04	21.294		
7,500.0	7,229.4	7,160.4	7,160.4	33.9	26.7	124.29	1,024.0	-887.1	1,173.3	1,113.8	59.47	19.730		
7,600.0	7,258.8	7,189.8	7,189.8	33.9	26.8	124.79	1,024.0	-887.1	1,082.9	1,023.2	59.79	18.112		
7,700.0	7,271.5	7,202.5	7,202.5	33.9	26.8	125.19	1,024.0	-887.1	989.0	929.0	60.04	16.473		
7,800.0	7,272.0	7,203.0	7,203.0	33.9	26.8	125.50	1,024.0	-887.1	894.6	834.3	60.26	14.846		
7,900.0	7,272.0	7,203.0	7,203.0	34.0	26.8	125.73	1,024.0	-887.1	801.4	740.9	60.52	13.243		
8,000.0	7,272.0	7,203.0	7,203.0	34.3	26.8	125.90	1,024.0	-887.1	710.1	649.3	60.84	11.672		
8,100.0	7,272.0	7,203.0	7,203.0	34.6	26.8	126.00	1,024.0	-887.1	621.5	560.2	61.23	10.150		
8,200.0	7,272.0	7,203.0	7,203.0	35.0	26.8	126.00	1,024.0	-887.1	536.9	475.2	61.70	8.701		
8,300.0	7,272.0	7,203.0	7,203.0	35.5	26.8	126.00	1,024.0	-887.1	458.5	396.2	62.24	7.367		
8,400.0	7,272.0	7,203.0	7,203.0	36.2	26.8	126.00	1,024.0	-887.1	390.1	327.4	62.73	6.219		
8,500.0	7,272.0	7,203.0	7,203.0	36.9	26.8	126.00	1,024.0	-887.1	337.9	275.0	62.87	5.374		
8,600.0	7,272.0	7,203.0	7,203.0	37.7	26.8	126.00	1,024.0	-887.1	310.1	247.9	62.17	4.988 SF		
8,640.1	7,272.0	7,203.0	7,203.0	38.1	26.8	126.00	1,024.0	-887.1	307.5	245.9	61.61	4.991 CC, ES		
8,700.0	7,272.0	7,203.0	7,203.0	38.7	26.8	126.00	1,024.0	-887.1	313.3	252.7	60.56	5.173		
8,800.0	7,272.0	7,203.0	7,203.0	39.7	26.8	126.00	1,024.0	-887.1	346.6	287.8	58.84	5.890		
8,900.0	7,272.0	7,203.0	7,203.0	40.7	26.8	126.00	1,024.0	-887.1	402.6	344.9	57.70	6.979		
9,000.0	7,272.0	7,203.0	7,203.0	41.8	26.8	126.00	1,024.0	-887.1	473.4	416.3	57.12	8.287		
9,100.0	7,272.0	7,203.0	7,203.0	43.0	26.8	126.00	1,024.0	-887.1	553.2	496.4	56.90	9.724		
9,200.0	7,272.0	7,203.0	7,203.0	44.2	26.8	126.00	1,024.0	-887.1	638.8	582.0	56.85	11.237		
9,300.0	7,272.0	7,203.0	7,203.0	45.4	26.8	126.00	1,024.0	-887.1	728.0	671.2	56.88	12.800		
9,400.0	7,272.0	7,203.0	7,203.0	46.7	26.8	126.00	1,024.0	-887.1	819.8	762.8	56.95	14.396		
9,500.0	7,272.0	7,203.0	7,203.0	48.0	26.8	126.00	1,024.0	-887.1	913.2	856.2	57.03	16.014		
9,600.0	7,272.0	7,203.0	7,203.0	49.3	26.8	126.00	1,024.0	-887.1	1,008.0	950.9	57.12	17.648		
9,700.0	7,272.0	7,203.0	7,203.0	50.7	26.8	126.00	1,024.0	-887.1	1,103.6	1,046.4	57.20	19.294		
9,800.0	7,272.0	7,203.0	7,203.0	52.1	26.8	126.00	1,024.0	-887.1	1,200.0	1,142.7	57.28	20.948		
9,900.0	7,272.0	7,203.0	7,203.0	53.5	26.8	126.00	1,024.0	-887.1	1,296.9	1,239.5	57.36	22.609		
10,000.0	7,272.0	7,203.0	7,203.0	54.9	26.8	126.00	1,024.0	-887.1	1,394.3	1,336.8	57.44	24.274		
10,100.0	7,272.0	7,203.0	7,203.0	56.4	26.8	126.00	1,024.0	-887.1	1,492.0	1,434.4	57.51	25.944		

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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 - UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)												<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	
10,200.0	7,272.0	7,203.0	7,203.0	57.9	26.8	90.00	1,024.0	-887.1	1,589.9	1,532.4	57.57	27.615	
10,300.0	7,272.0	7,203.0	7,203.0	59.3	26.8	90.00	1,024.0	-887.1	1,688.2	1,630.5	57.64	29.289	
10,400.0	7,272.0	7,203.0	7,203.0	60.8	26.8	90.00	1,024.0	-887.1	1,786.6	1,728.9	57.70	30.964	
10,500.0	7,272.0	7,203.0	7,203.0	62.4	26.8	90.00	1,024.0	-887.1	1,885.2	1,827.4	57.76	32.639	
10,600.0	7,272.0	7,203.0	7,203.0	63.9	26.8	90.00	1,024.0	-887.1	1,983.9	1,926.1	57.82	34.315	
10,700.0	7,272.0	7,203.0	7,203.0	65.4	26.8	90.00	1,024.0	-887.1	2,082.7	2,024.9	57.87	35.990	
10,800.0	7,272.0	7,203.0	7,203.0	67.0	26.8	90.00	1,024.0	-887.1	2,181.7	2,123.8	57.92	37.665	

<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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

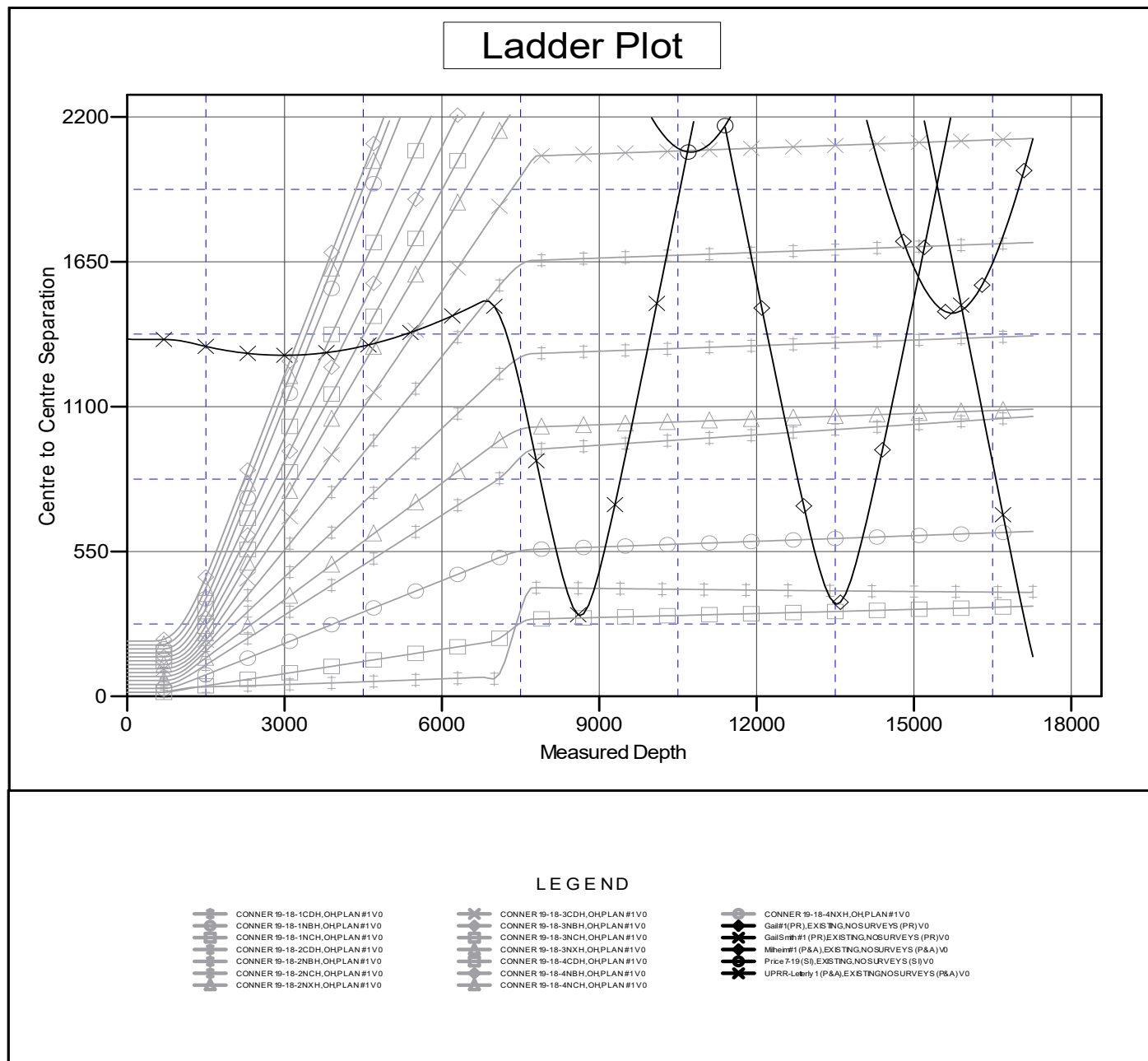
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

Coordinates are relative to: CONNER 19-18-1NXH

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°



<b>Company:</b>	PetroShare Corp	<b>Local Co-ordinate Reference:</b>	Well CONNER 19-18-1NXH
<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 19-18-1NXH	<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

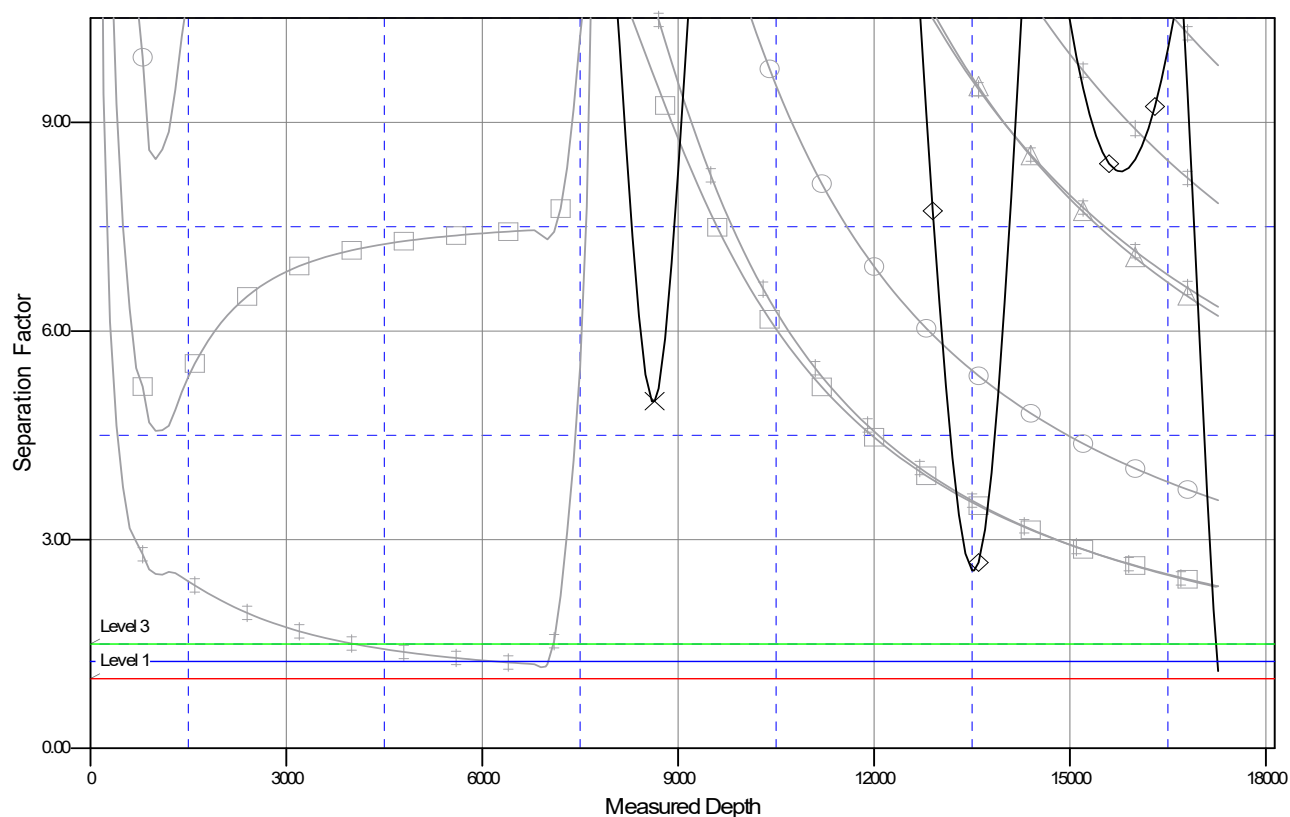
Central Meridian is -105.500000

Coordinates are relative to: CONNER 19-18-1NXH

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

CONNER 19-18-3CDH, 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  
Gall#1(PR), EXSTING, NOSURVEYS (PR) V0  
Gall#1(PR), EXSTING, NOSURVEYS (P&A) V0  
Mheim#1 (P&A), EXSTING, NOSURVEYS (P&A) V0  
Price 7-19 (S), EXSTING, NOSURVEYS (S) V0  
UPRR-Laberty 1 (P&A), EXSTING, NOSURVEYS (P&A) V0