



PetroShare Corp

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



Azimuths to Grid North
True North: -0.51°
Magnetic North: 7.50°

Magnetic Field
Strength: 51671.1nT
Dip Angle: 66.20°
Date: 12/31/2020
Model: HDGM2020_FIE

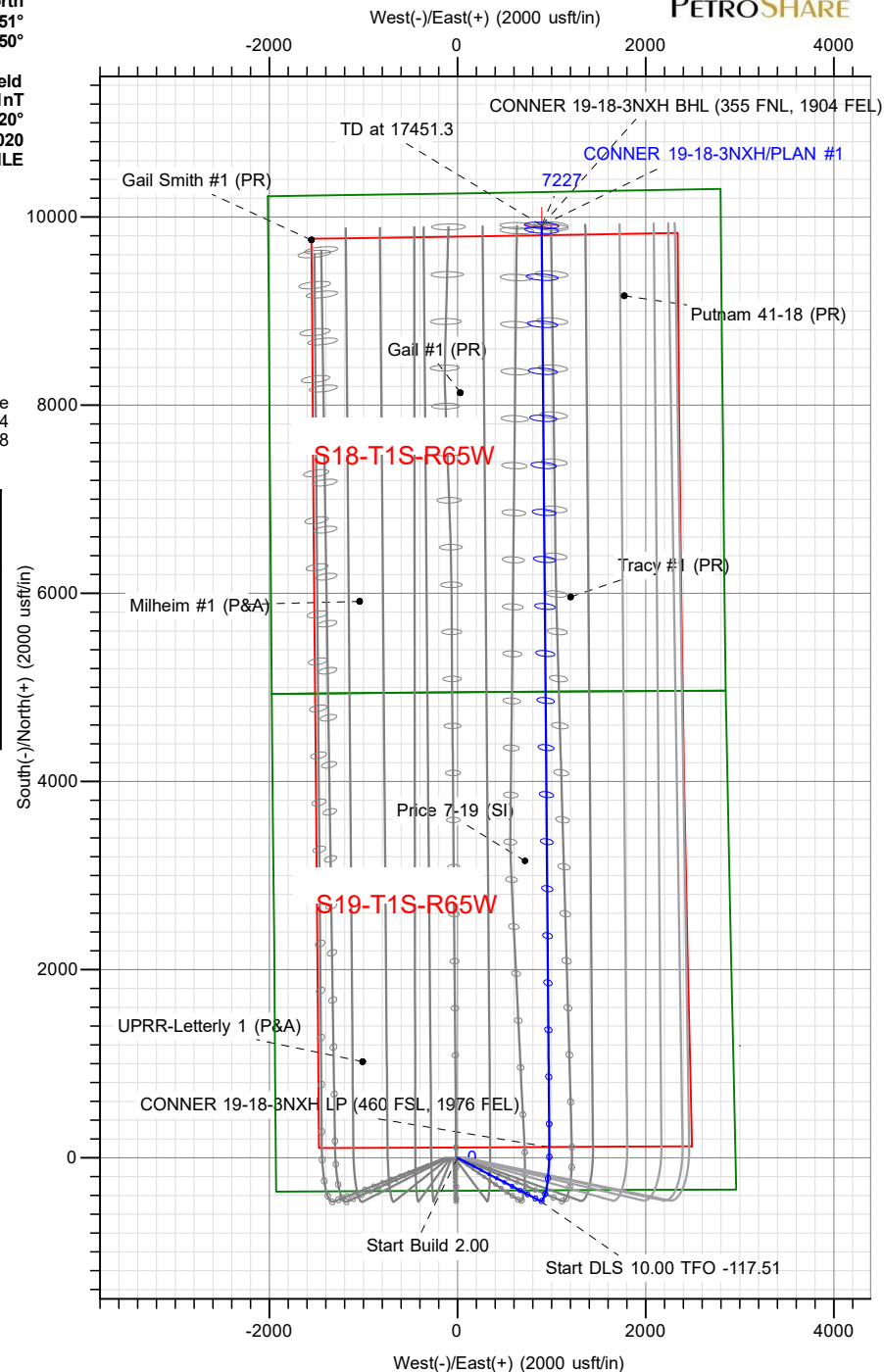
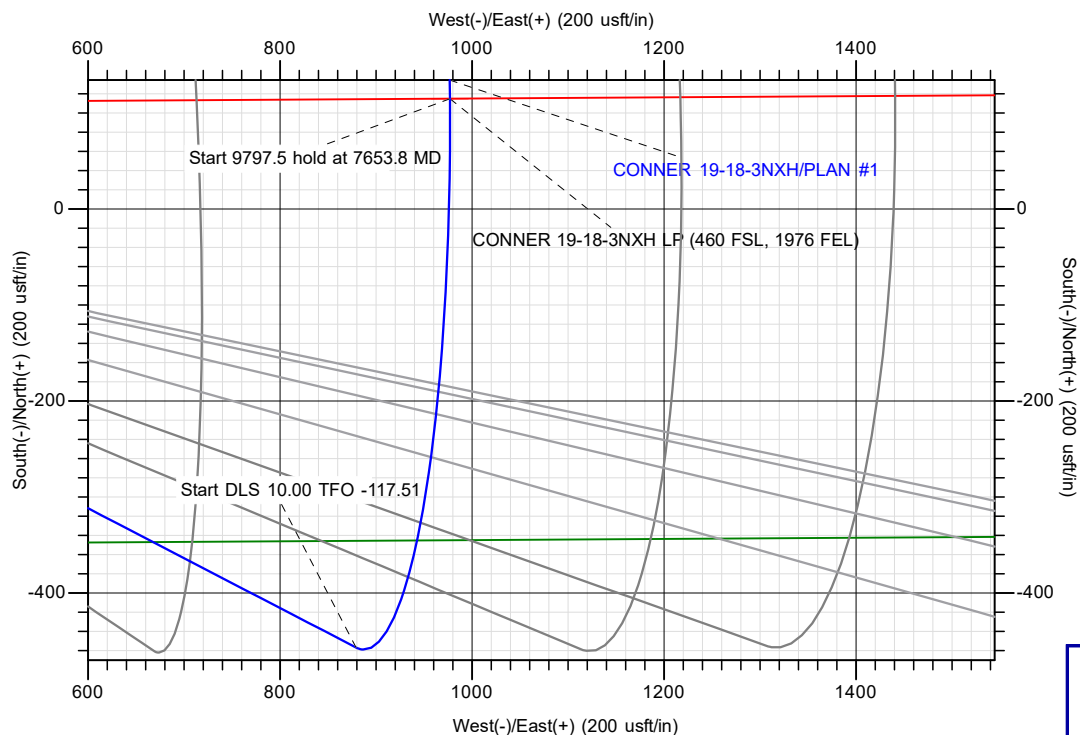
PROJECT DETAILS: ADAMS COUNTY, CO
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CONNER 19-18-3NXH BHL (355 FNL, 1904 FEL)	7227.0	9912.2	896.0	1233467.22	3223040.94	39.971504	-104.704184
CONNER 19-18-3NXH LP (460 FSL, 1976 FEL)	7227.0	115.0	977.0	1223670.03	3223121.94	39.944607	-104.704208

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	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	1634.9	10.70	117.45	1631.8	-22.9	44.2	2.00	117.45	-18.9	
4	6703.9	10.70	117.45	6612.7	-456.6	879.2	0.00	0.00	-375.6	
5	7653.8	90.00	359.53	7227.0	115.0	977.0	10.00	117.51	202.5	CONNER 19-18-3NXH LP (460 FSL, 1976 FEL)
6	17451.3	90.00	359.53	7227.0	9912.2	896.0	0.00	0.00	9952.6	CONNER 19-18-3NXH BHL (355 FNL, 1904 FEL)



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

Plan: PLAN #1 (CONNER 19-18-3NXH/OH)
S19-T1S-R65W
Created By: Lance Roybal
Date: 19:34, March 12 2021
Approved: _____
Date: _____



PetroShare Corp

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



Azimuths to Grid North
True North: -0.51°
Magnetic North: 7.50°

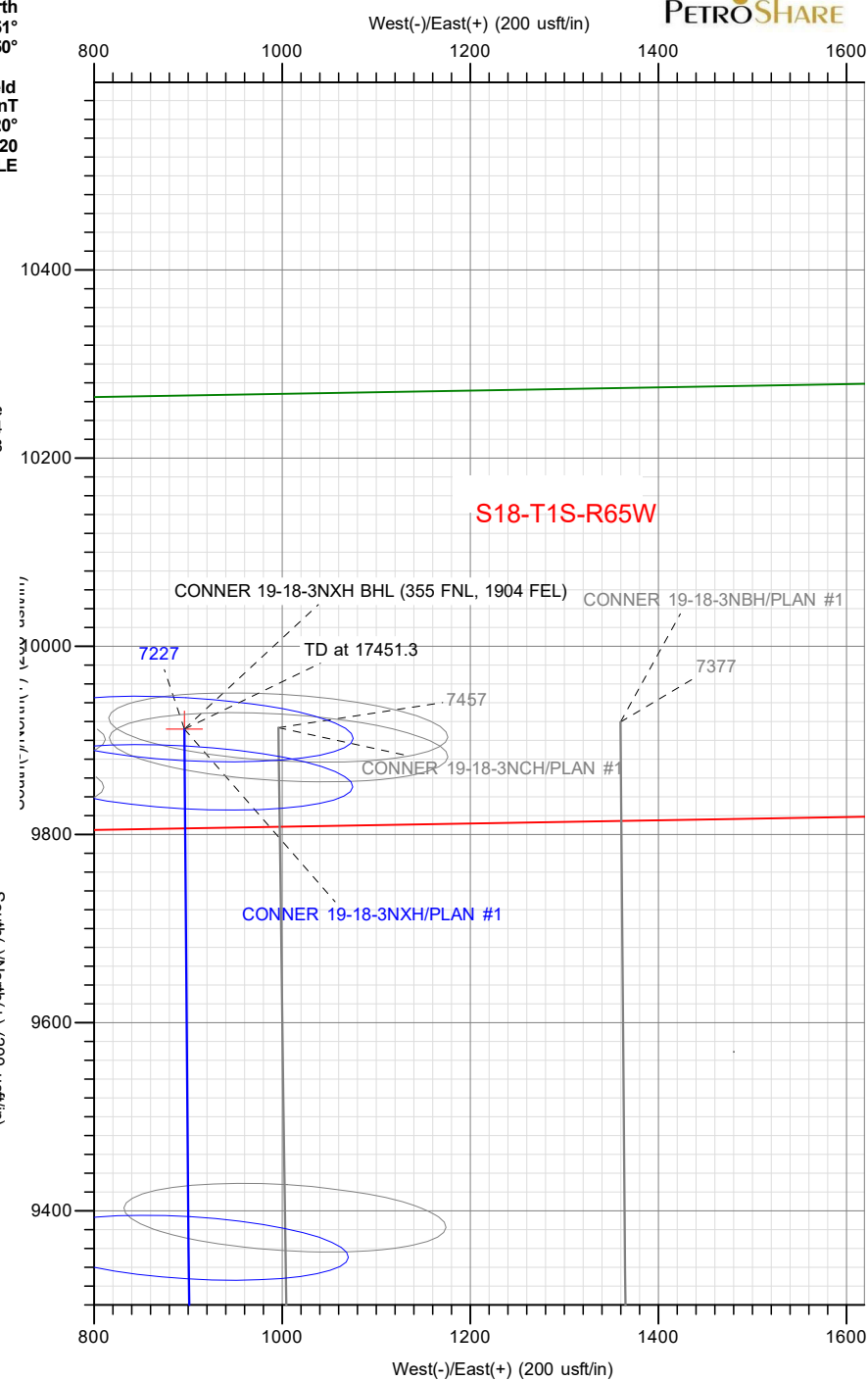
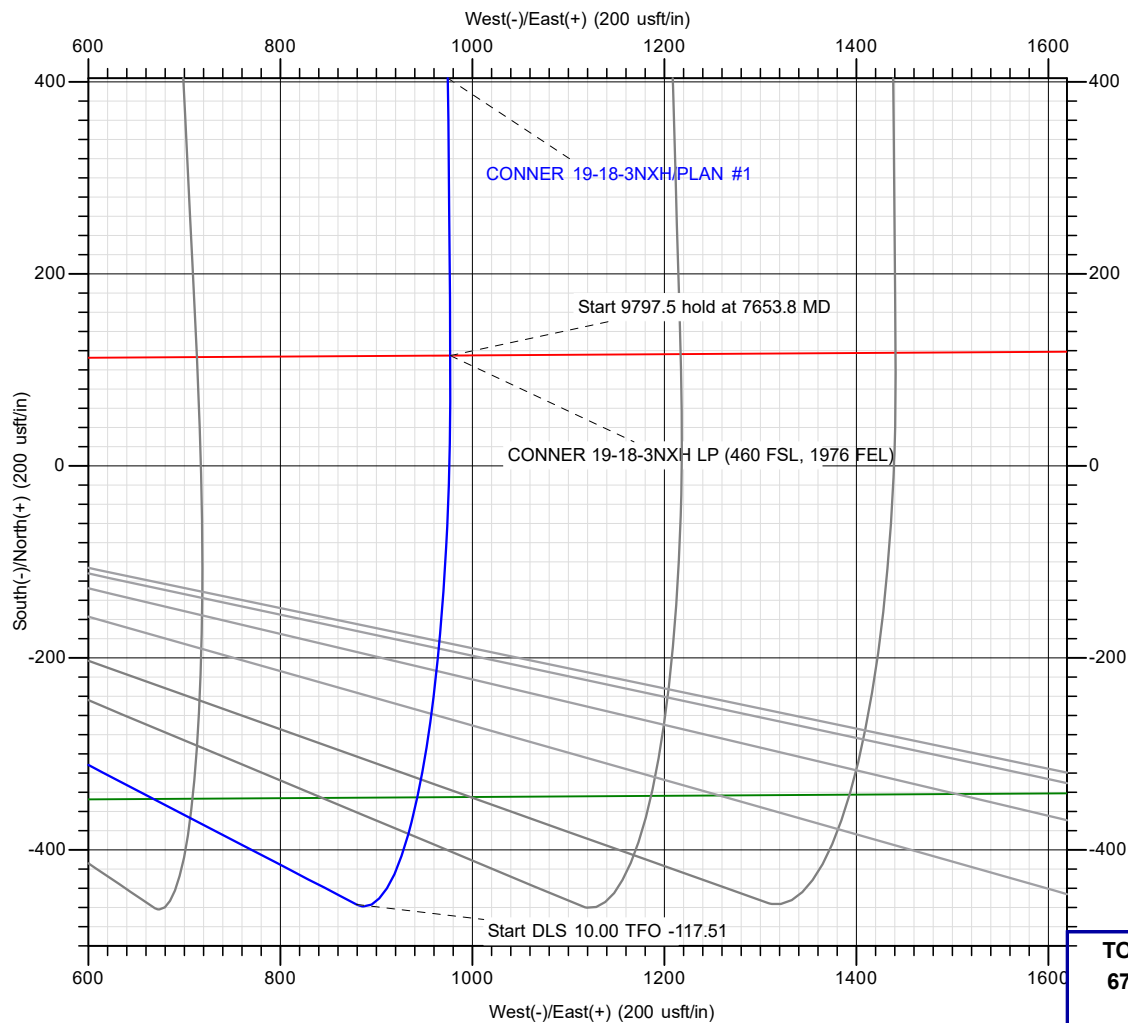
Magnetic Field
Strength: 51671.1nT
Dip Angle: 66.20°
Date: 12/31/2020
Model: HDGM2020_FILE



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

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CONNER 19-18-3NXH BHL (355 FNL, 1904 FEL)	7227.0	9912.2	896.0	1233467.22	3223040.94	39.971504	-104.704184
CONNER 19-18-3NXH LP (460 FSL, 1976 FEL)	7227.0	115.0	977.0	1223670.03	3223121.94	39.944607	-104.704208



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

Plan: PLAN #1 (CONNER 19-18-3NXH/OH)
S19-T1S-R65W
Created By: Lance Roybal
Date: 19:37, March 12 2021
Approved: _____
Date: _____



PetroShare Corp

ADAMS COUNTY, CO

S19-T1S-R65W

CONNER 19-18-3NXH

OH

Plan: PLAN #1

Standard Planning Report

12 March, 2021



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

Project	ADAMS COUNTY, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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 19-18-3NXH					
Well Position	+N/-S	0.7 usft	Northing:	1,223,555.05 usft	Latitude:	39.944316
	+E/-W	135.0 usft	Easting:	3,222,144.90 usft	Longitude:	-104.707697
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,142.0 usft

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

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	5.17

Plan Survey Tool Program	Date	3/12/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,451.3	PLAN #1 (OH)	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,634.9	10.70	117.45	1,631.8	-22.9	44.2	2.00	2.00	0.00	117.45	
6,703.9	10.70	117.45	6,612.7	-456.6	879.2	0.00	0.00	0.00	0.00	
7,653.8	90.00	359.53	7,227.0	115.0	977.0	10.00	8.35	-12.41	-117.51	CONNER 19-18-3NXH
17,451.3	90.00	359.53	7,227.0	9,912.2	896.0	0.00	0.00	0.00	0.00	CONNER 19-18-3NXH

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

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	2.00	117.45	1,200.0	-0.8	1.5	-0.7	2.00	2.00	0.00
1,300.0	4.00	117.45	1,299.8	-3.2	6.2	-2.6	2.00	2.00	0.00
1,400.0	6.00	117.45	1,399.5	-7.2	13.9	-6.0	2.00	2.00	0.00
1,500.0	8.00	117.45	1,498.7	-12.9	24.7	-10.6	2.00	2.00	0.00
1,600.0	10.00	117.45	1,597.5	-20.1	38.6	-16.5	2.00	2.00	0.00
1,634.9	10.70	117.45	1,631.8	-22.9	44.2	-18.9	2.00	2.00	0.00
1,700.0	10.70	117.45	1,695.8	-28.5	54.9	-23.5	0.00	0.00	0.00
1,800.0	10.70	117.45	1,794.0	-37.1	71.4	-30.5	0.00	0.00	0.00
1,900.0	10.70	117.45	1,892.3	-45.6	87.9	-37.5	0.00	0.00	0.00
2,000.0	10.70	117.45	1,990.6	-54.2	104.3	-44.6	0.00	0.00	0.00
2,100.0	10.70	117.45	2,088.8	-62.7	120.8	-51.6	0.00	0.00	0.00
2,200.0	10.70	117.45	2,187.1	-71.3	137.3	-58.6	0.00	0.00	0.00
2,300.0	10.70	117.45	2,285.3	-79.9	153.8	-65.7	0.00	0.00	0.00
2,400.0	10.70	117.45	2,383.6	-88.4	170.2	-72.7	0.00	0.00	0.00
2,500.0	10.70	117.45	2,481.9	-97.0	186.7	-79.8	0.00	0.00	0.00
2,600.0	10.70	117.45	2,580.1	-105.5	203.2	-86.8	0.00	0.00	0.00
2,700.0	10.70	117.45	2,678.4	-114.1	219.6	-93.8	0.00	0.00	0.00
2,800.0	10.70	117.45	2,776.6	-122.6	236.1	-100.9	0.00	0.00	0.00
2,900.0	10.70	117.45	2,874.9	-131.2	252.6	-107.9	0.00	0.00	0.00
3,000.0	10.70	117.45	2,973.2	-139.7	269.1	-115.0	0.00	0.00	0.00
3,100.0	10.70	117.45	3,071.4	-148.3	285.5	-122.0	0.00	0.00	0.00
3,200.0	10.70	117.45	3,169.7	-156.9	302.0	-129.0	0.00	0.00	0.00
3,300.0	10.70	117.45	3,268.0	-165.4	318.5	-136.1	0.00	0.00	0.00
3,400.0	10.70	117.45	3,366.2	-174.0	335.0	-143.1	0.00	0.00	0.00
3,500.0	10.70	117.45	3,464.5	-182.5	351.4	-150.1	0.00	0.00	0.00
3,600.0	10.70	117.45	3,562.7	-191.1	367.9	-157.2	0.00	0.00	0.00
3,700.0	10.70	117.45	3,661.0	-199.6	384.4	-164.2	0.00	0.00	0.00
3,800.0	10.70	117.45	3,759.3	-208.2	400.9	-171.3	0.00	0.00	0.00
3,900.0	10.70	117.45	3,857.5	-216.7	417.3	-178.3	0.00	0.00	0.00
4,000.0	10.70	117.45	3,955.8	-225.3	433.8	-185.3	0.00	0.00	0.00
4,100.0	10.70	117.45	4,054.1	-233.9	450.3	-192.4	0.00	0.00	0.00
4,200.0	10.70	117.45	4,152.3	-242.4	466.7	-199.4	0.00	0.00	0.00
4,300.0	10.70	117.45	4,250.6	-251.0	483.2	-206.4	0.00	0.00	0.00
4,400.0	10.70	117.45	4,348.8	-259.5	499.7	-213.5	0.00	0.00	0.00
4,500.0	10.70	117.45	4,447.1	-268.1	516.2	-220.5	0.00	0.00	0.00
4,600.0	10.70	117.45	4,545.4	-276.6	532.6	-227.6	0.00	0.00	0.00
4,700.0	10.70	117.45	4,643.6	-285.2	549.1	-234.6	0.00	0.00	0.00
4,800.0	10.70	117.45	4,741.9	-293.7	565.6	-241.6	0.00	0.00	0.00
4,900.0	10.70	117.45	4,840.2	-302.3	582.1	-248.7	0.00	0.00	0.00
5,000.0	10.70	117.45	4,938.4	-310.9	598.5	-255.7	0.00	0.00	0.00
5,100.0	10.70	117.45	5,036.7	-319.4	615.0	-262.7	0.00	0.00	0.00
5,200.0	10.70	117.45	5,134.9	-328.0	631.5	-269.8	0.00	0.00	0.00

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Project:	ADAMS COUNTY, CO	MD Reference:	13' KB @ 5155.0usft
Site:	S19-T1S-R65W	North Reference:	Grid
Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	10.70	117.45	5,233.2	-336.5	648.0	-276.8	0.00	0.00	0.00
5,400.0	10.70	117.45	5,331.5	-345.1	664.4	-283.9	0.00	0.00	0.00
5,500.0	10.70	117.45	5,429.7	-353.6	680.9	-290.9	0.00	0.00	0.00
5,600.0	10.70	117.45	5,528.0	-362.2	697.4	-297.9	0.00	0.00	0.00
5,700.0	10.70	117.45	5,626.2	-370.7	713.8	-305.0	0.00	0.00	0.00
5,800.0	10.70	117.45	5,724.5	-379.3	730.3	-312.0	0.00	0.00	0.00
5,900.0	10.70	117.45	5,822.8	-387.9	746.8	-319.0	0.00	0.00	0.00
6,000.0	10.70	117.45	5,921.0	-396.4	763.3	-326.1	0.00	0.00	0.00
6,100.0	10.70	117.45	6,019.3	-405.0	779.7	-333.1	0.00	0.00	0.00
6,200.0	10.70	117.45	6,117.6	-413.5	796.2	-340.2	0.00	0.00	0.00
6,300.0	10.70	117.45	6,215.8	-422.1	812.7	-347.2	0.00	0.00	0.00
6,400.0	10.70	117.45	6,314.1	-430.6	829.2	-354.2	0.00	0.00	0.00
6,500.0	10.70	117.45	6,412.3	-439.2	845.6	-361.3	0.00	0.00	0.00
6,600.0	10.70	117.45	6,510.6	-447.7	862.1	-368.3	0.00	0.00	0.00
6,700.0	10.70	117.45	6,608.9	-456.3	878.6	-375.3	0.00	0.00	0.00
6,703.9	10.70	117.45	6,612.7	-456.6	879.2	-375.6	0.00	0.00	0.00
6,800.0	10.53	63.39	6,707.4	-456.8	895.0	-374.4	10.00	-0.17	-56.28
6,900.0	17.37	31.79	6,804.5	-440.0	911.1	-356.2	10.00	6.83	-31.60
7,000.0	26.27	19.29	6,897.3	-406.3	926.3	-321.3	10.00	8.91	-12.50
7,100.0	35.74	12.94	6,982.9	-356.9	940.2	-270.8	10.00	9.46	-6.35
7,200.0	45.41	9.00	7,058.8	-293.1	952.3	-206.1	10.00	9.67	-3.94
7,300.0	55.17	6.20	7,122.6	-216.9	962.4	-129.4	10.00	9.77	-2.80
7,400.0	64.99	3.99	7,172.5	-130.7	970.0	-42.8	10.00	9.82	-2.20
7,500.0	74.83	2.12	7,206.8	-37.0	974.9	50.9	10.00	9.84	-1.87
7,600.0	84.69	0.41	7,224.5	61.3	977.1	149.0	10.00	9.86	-1.70
7,653.8	90.00	359.53	7,227.0	115.0	977.0	202.5	10.00	9.86	-1.65
CONNER 19-18-3NXH LP (460 FSL, 1976 FEL)									
7,700.0	90.00	359.53	7,227.0	161.2	976.7	248.4	0.00	0.00	0.00
7,800.0	90.00	359.53	7,227.0	261.2	975.8	348.0	0.00	0.00	0.00
7,900.0	90.00	359.53	7,227.0	361.2	975.0	447.5	0.00	0.00	0.00
8,000.0	90.00	359.53	7,227.0	461.2	974.2	547.0	0.00	0.00	0.00
8,100.0	90.00	359.53	7,227.0	561.2	973.4	646.5	0.00	0.00	0.00
8,200.0	90.00	359.53	7,227.0	661.2	972.5	746.0	0.00	0.00	0.00
8,300.0	90.00	359.53	7,227.0	761.2	971.7	845.5	0.00	0.00	0.00
8,400.0	90.00	359.53	7,227.0	861.2	970.9	945.1	0.00	0.00	0.00
8,500.0	90.00	359.53	7,227.0	961.1	970.0	1,044.6	0.00	0.00	0.00
8,600.0	90.00	359.53	7,227.0	1,061.1	969.2	1,144.1	0.00	0.00	0.00
8,700.0	90.00	359.53	7,227.0	1,161.1	968.4	1,243.6	0.00	0.00	0.00
8,800.0	90.00	359.53	7,227.0	1,261.1	967.6	1,343.1	0.00	0.00	0.00
8,900.0	90.00	359.53	7,227.0	1,361.1	966.7	1,442.6	0.00	0.00	0.00
9,000.0	90.00	359.53	7,227.0	1,461.1	965.9	1,542.2	0.00	0.00	0.00
9,100.0	90.00	359.53	7,227.0	1,561.1	965.1	1,641.7	0.00	0.00	0.00
9,200.0	90.00	359.53	7,227.0	1,661.1	964.3	1,741.2	0.00	0.00	0.00
9,300.0	90.00	359.53	7,227.0	1,761.1	963.4	1,840.7	0.00	0.00	0.00
9,400.0	90.00	359.53	7,227.0	1,861.1	962.6	1,940.2	0.00	0.00	0.00
9,500.0	90.00	359.53	7,227.0	1,961.1	961.8	2,039.7	0.00	0.00	0.00
9,600.0	90.00	359.53	7,227.0	2,061.1	961.0	2,139.3	0.00	0.00	0.00
9,700.0	90.00	359.53	7,227.0	2,161.1	960.1	2,238.8	0.00	0.00	0.00
9,800.0	90.00	359.53	7,227.0	2,261.1	959.3	2,338.3	0.00	0.00	0.00
9,900.0	90.00	359.53	7,227.0	2,361.1	958.5	2,437.8	0.00	0.00	0.00
10,000.0	90.00	359.53	7,227.0	2,461.1	957.6	2,537.3	0.00	0.00	0.00
10,100.0	90.00	359.53	7,227.0	2,561.1	956.8	2,636.8	0.00	0.00	0.00
10,200.0	90.00	359.53	7,227.0	2,661.1	956.0	2,736.4	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Company:	PetroShare Corp	TVD Reference:	13' KB @ 5155.0usft
Project:	ADAMS COUNTY, CO	MD Reference:	13' KB @ 5155.0usft
Site:	S19-T1S-R65W	North Reference:	Grid
Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	359.53	7,227.0	2,761.1	955.2	2,835.9	0.00	0.00	0.00
10,400.0	90.00	359.53	7,227.0	2,861.1	954.3	2,935.4	0.00	0.00	0.00
10,500.0	90.00	359.53	7,227.0	2,961.1	953.5	3,034.9	0.00	0.00	0.00
10,600.0	90.00	359.53	7,227.0	3,061.1	952.7	3,134.4	0.00	0.00	0.00
10,700.0	90.00	359.53	7,227.0	3,161.1	951.9	3,233.9	0.00	0.00	0.00
10,800.0	90.00	359.53	7,227.0	3,261.1	951.0	3,333.4	0.00	0.00	0.00
10,900.0	90.00	359.53	7,227.0	3,361.1	950.2	3,433.0	0.00	0.00	0.00
11,000.0	90.00	359.53	7,227.0	3,461.1	949.4	3,532.5	0.00	0.00	0.00
11,100.0	90.00	359.53	7,227.0	3,561.1	948.5	3,632.0	0.00	0.00	0.00
11,200.0	90.00	359.53	7,227.0	3,661.1	947.7	3,731.5	0.00	0.00	0.00
11,300.0	90.00	359.53	7,227.0	3,761.1	946.9	3,831.0	0.00	0.00	0.00
11,400.0	90.00	359.53	7,227.0	3,861.0	946.1	3,930.5	0.00	0.00	0.00
11,500.0	90.00	359.53	7,227.0	3,961.0	945.2	4,030.1	0.00	0.00	0.00
11,600.0	90.00	359.53	7,227.0	4,061.0	944.4	4,129.6	0.00	0.00	0.00
11,700.0	90.00	359.53	7,227.0	4,161.0	943.6	4,229.1	0.00	0.00	0.00
11,800.0	90.00	359.53	7,227.0	4,261.0	942.8	4,328.6	0.00	0.00	0.00
11,900.0	90.00	359.53	7,227.0	4,361.0	941.9	4,428.1	0.00	0.00	0.00
12,000.0	90.00	359.53	7,227.0	4,461.0	941.1	4,527.6	0.00	0.00	0.00
12,100.0	90.00	359.53	7,227.0	4,561.0	940.3	4,627.2	0.00	0.00	0.00
12,200.0	90.00	359.53	7,227.0	4,661.0	939.5	4,726.7	0.00	0.00	0.00
12,300.0	90.00	359.53	7,227.0	4,761.0	938.6	4,826.2	0.00	0.00	0.00
12,400.0	90.00	359.53	7,227.0	4,861.0	937.8	4,925.7	0.00	0.00	0.00
12,500.0	90.00	359.53	7,227.0	4,961.0	937.0	5,025.2	0.00	0.00	0.00
12,600.0	90.00	359.53	7,227.0	5,061.0	936.1	5,124.7	0.00	0.00	0.00
12,700.0	90.00	359.53	7,227.0	5,161.0	935.3	5,224.3	0.00	0.00	0.00
12,800.0	90.00	359.53	7,227.0	5,261.0	934.5	5,323.8	0.00	0.00	0.00
12,900.0	90.00	359.53	7,227.0	5,361.0	933.7	5,423.3	0.00	0.00	0.00
13,000.0	90.00	359.53	7,227.0	5,461.0	932.8	5,522.8	0.00	0.00	0.00
13,100.0	90.00	359.53	7,227.0	5,561.0	932.0	5,622.3	0.00	0.00	0.00
13,200.0	90.00	359.53	7,227.0	5,661.0	931.2	5,721.8	0.00	0.00	0.00
13,300.0	90.00	359.53	7,227.0	5,761.0	930.4	5,821.3	0.00	0.00	0.00
13,400.0	90.00	359.53	7,227.0	5,861.0	929.5	5,920.9	0.00	0.00	0.00
13,500.0	90.00	359.53	7,227.0	5,961.0	928.7	6,020.4	0.00	0.00	0.00
13,600.0	90.00	359.53	7,227.0	6,061.0	927.9	6,119.9	0.00	0.00	0.00
13,700.0	90.00	359.53	7,227.0	6,161.0	927.1	6,219.4	0.00	0.00	0.00
13,800.0	90.00	359.53	7,227.0	6,261.0	926.2	6,318.9	0.00	0.00	0.00
13,900.0	90.00	359.53	7,227.0	6,361.0	925.4	6,418.4	0.00	0.00	0.00
14,000.0	90.00	359.53	7,227.0	6,461.0	924.6	6,518.0	0.00	0.00	0.00
14,100.0	90.00	359.53	7,227.0	6,561.0	923.7	6,617.5	0.00	0.00	0.00
14,200.0	90.00	359.53	7,227.0	6,661.0	922.9	6,717.0	0.00	0.00	0.00
14,300.0	90.00	359.53	7,227.0	6,760.9	922.1	6,816.5	0.00	0.00	0.00
14,400.0	90.00	359.53	7,227.0	6,860.9	921.3	6,916.0	0.00	0.00	0.00
14,500.0	90.00	359.53	7,227.0	6,960.9	920.4	7,015.5	0.00	0.00	0.00
14,600.0	90.00	359.53	7,227.0	7,060.9	919.6	7,115.1	0.00	0.00	0.00
14,700.0	90.00	359.53	7,227.0	7,160.9	918.8	7,214.6	0.00	0.00	0.00
14,800.0	90.00	359.53	7,227.0	7,260.9	918.0	7,314.1	0.00	0.00	0.00
14,900.0	90.00	359.53	7,227.0	7,360.9	917.1	7,413.6	0.00	0.00	0.00
15,000.0	90.00	359.53	7,227.0	7,460.9	916.3	7,513.1	0.00	0.00	0.00
15,100.0	90.00	359.53	7,227.0	7,560.9	915.5	7,612.6	0.00	0.00	0.00
15,200.0	90.00	359.53	7,227.0	7,660.9	914.7	7,712.2	0.00	0.00	0.00
15,300.0	90.00	359.53	7,227.0	7,760.9	913.8	7,811.7	0.00	0.00	0.00
15,400.0	90.00	359.53	7,227.0	7,860.9	913.0	7,911.2	0.00	0.00	0.00
15,500.0	90.00	359.53	7,227.0	7,960.9	912.2	8,010.7	0.00	0.00	0.00
15,600.0	90.00	359.53	7,227.0	8,060.9	911.3	8,110.2	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Company:	PetroShare Corp	TVD Reference:	13' KB @ 5155.0usft
Project:	ADAMS COUNTY, CO	MD Reference:	13' KB @ 5155.0usft
Site:	S19-T1S-R65W	North Reference:	Grid
Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	359.53	7,227.0	8,160.9	910.5	8,209.7	0.00	0.00	0.00
15,800.0	90.00	359.53	7,227.0	8,260.9	909.7	8,309.3	0.00	0.00	0.00
15,900.0	90.00	359.53	7,227.0	8,360.9	908.9	8,408.8	0.00	0.00	0.00
16,000.0	90.00	359.53	7,227.0	8,460.9	908.0	8,508.3	0.00	0.00	0.00
16,100.0	90.00	359.53	7,227.0	8,560.9	907.2	8,607.8	0.00	0.00	0.00
16,200.0	90.00	359.53	7,227.0	8,660.9	906.4	8,707.3	0.00	0.00	0.00
16,300.0	90.00	359.53	7,227.0	8,760.9	905.6	8,806.8	0.00	0.00	0.00
16,400.0	90.00	359.53	7,227.0	8,860.9	904.7	8,906.3	0.00	0.00	0.00
16,500.0	90.00	359.53	7,227.0	8,960.9	903.9	9,005.9	0.00	0.00	0.00
16,600.0	90.00	359.53	7,227.0	9,060.9	903.1	9,105.4	0.00	0.00	0.00
16,700.0	90.00	359.53	7,227.0	9,160.9	902.3	9,204.9	0.00	0.00	0.00
16,800.0	90.00	359.53	7,227.0	9,260.9	901.4	9,304.4	0.00	0.00	0.00
16,900.0	90.00	359.53	7,227.0	9,360.9	900.6	9,403.9	0.00	0.00	0.00
17,000.0	90.00	359.53	7,227.0	9,460.9	899.8	9,503.4	0.00	0.00	0.00
17,100.0	90.00	359.53	7,227.0	9,560.9	898.9	9,603.0	0.00	0.00	0.00
17,200.0	90.00	359.53	7,227.0	9,660.8	898.1	9,702.5	0.00	0.00	0.00
17,300.0	90.00	359.53	7,227.0	9,760.8	897.3	9,802.0	0.00	0.00	0.00
17,400.0	90.00	359.53	7,227.0	9,860.8	896.5	9,901.5	0.00	0.00	0.00
17,451.3	90.00	359.53	7,227.0	9,912.2	896.0	9,952.6	0.00	0.00	0.00
CONNER 19-18-3NXH BHL (355 FNL, 1904 FEL)									

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 19-18-3NXH L - plan hits target center - Point	0.00	0.00	7,227.0	115.0	977.0	1,223,670.03	3,223,121.94	39.944608	-104.704209
CONNER 19-18-3NXH E - plan hits target center - Point	0.00	0.00	7,227.0	9,912.2	896.0	1,233,467.22	3,223,040.94	39.971504	-104.704184



PetroShare Corp

ADAMS COUNTY, CO

S19-T1S-R65W

CONNER 19-18-3NXH

OH

PLAN #1

Anticollision Report

12 March, 2021



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

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

Survey Tool Program	Date	3/12/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	17,451.3	PLAN #1 (OH)		

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	135.0	130.3	28.458	CC, ES
CONNER 19-18-1CDH - OH - PLAN #1	1,100.0	1,074.6	174.4	164.1	16.883	SF
CONNER 19-18-1NBH - OH - PLAN #1	900.0	900.0	90.0	86.5	25.907	CC, ES
CONNER 19-18-1NBH - OH - PLAN #1	17,451.3	17,429.8	1,720.3	1,540.8	9.586	SF
CONNER 19-18-1NCH - OH - PLAN #1	800.0	800.0	105.0	101.9	33.776	CC, ES
CONNER 19-18-1NCH - OH - PLAN #1	17,451.3	17,686.9	2,100.4	1,921.6	11.746	SF
CONNER 19-18-1NXH - OH - PLAN #1	700.0	700.0	120.0	114.5	21.884	CC, ES
CONNER 19-18-1NXH - OH - PLAN #1	1,200.0	1,176.9	160.6	149.5	14.552	SF
CONNER 19-18-2CDH - OH - PLAN #1	1,000.0	1,000.0	75.0	71.2	19.540	CC, ES
CONNER 19-18-2CDH - OH - PLAN #1	17,451.3	17,799.6	1,423.8	1,249.8	8.183	SF
CONNER 19-18-2NBH - OH - PLAN #1	1,100.0	1,100.0	30.0	25.8	7.149	CC, ES
CONNER 19-18-2NBH - OH - PLAN #1	17,451.3	17,551.4	651.8	476.4	3.716	SF
CONNER 19-18-2NCH - OH - PLAN #1	1,100.0	1,100.0	45.0	36.6	5.359	CC, ES
CONNER 19-18-2NCH - OH - PLAN #1	17,451.3	17,606.3	1,021.6	668.9	2.896	SF
CONNER 19-18-2NXH - OH - PLAN #1	1,100.0	1,100.0	60.0	55.8	14.289	CC, ES
CONNER 19-18-2NXH - OH - PLAN #1	17,451.3	17,385.9	1,256.0	1,076.5	6.999	SF
CONNER 19-18-3CDH - OH - PLAN #1	1,100.0	1,100.0	15.0	6.6	1.790	CC, ES, SF
CONNER 19-18-3NBH - OH - PLAN #1	900.0	900.0	30.0	26.5	8.635	CC, ES
CONNER 19-18-3NBH - OH - PLAN #1	17,451.3	17,679.3	487.5	316.1	2.844	SF
CONNER 19-18-3NCH - OH - PLAN #1	1,000.0	1,000.0	15.0	7.3	1.951	CC, ES
CONNER 19-18-3NCH - OH - PLAN #1	17,451.3	17,720.7	250.8	46.6	1.228	Level 2, SF
CONNER 19-18-4CDH - OH - PLAN #1	800.0	800.0	45.0	41.9	14.469	CC, ES
CONNER 19-18-4CDH - OH - PLAN #1	17,451.3	17,994.4	915.1	750.6	5.565	SF
CONNER 19-18-4NBH - OH - PLAN #1	500.0	500.0	89.9	87.9	44.997	CC, ES
CONNER 19-18-4NBH - OH - PLAN #1	17,451.3	17,945.1	1,421.1	1,242.8	7.970	SF
CONNER 19-18-4NCH - OH - PLAN #1	600.0	600.0	74.9	72.6	31.580	CC, ES
CONNER 19-18-4NCH - OH - PLAN #1	17,451.3	18,006.1	1,362.1	1,185.2	7.701	SF
CONNER 19-18-4NXH - OH - PLAN #1	700.0	700.0	59.9	57.2	21.860	CC, ES
CONNER 19-18-4NXH - OH - PLAN #1	17,451.3	17,713.6	1,191.8	1,012.2	6.638	SF
Gail #1 (PR) - EXISTING - NO SURVEYS (PR)	15,679.0	7,158.0	880.6	705.8	5.037	CC, ES
Gail #1 (PR) - EXISTING - NO SURVEYS (PR)	15,700.0	7,158.0	880.9	705.9	5.036	SF
Gail Smith #1 (PR) - EXISTING - NO SURVEYS (PR)						Out of range
Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)	13,470.8	7,158.0	1,968.4	1,831.6	14.390	CC
Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)	13,500.0	7,158.0	1,968.6	1,831.5	14.356	ES
Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)	13,700.0	7,158.0	1,981.7	1,842.9	14.271	SF
Price 7-19 (SI) - EXISTING - NO SURVEYS (SI)	10,697.7	7,158.0	233.3	142.7	2.574	CC, ES, SF
Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)	16,695.5	7,158.0	871.0	678.5	4.525	CC

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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						
Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)	16,700.0	7,158.0	871.0	678.4	4.522	ES
Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)	16,800.0	7,158.0	877.3	682.9	4.513	SF
Tracy #1 (PR) - EXISTING - NO SURVEYS (PR)	13,499.3	7,158.0	273.8	136.5	1.995	CC
Tracy #1 (PR) - EXISTING - NO SURVEYS (PR)	13,500.0	7,158.0	273.8	136.5	1.994	ES, SF
UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)	1,100.0	1,031.0	1,435.9	1,428.4	193.074	CC, ES
UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)	9,000.0	7,158.0	2,021.0	1,956.6	31.412	SF

Offset Design													Offset Site Error:	0.0 usft
S19-T1S-R65W - CONNER 19-18-1CDH - OH - PLAN #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
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	-90.30	-0.7	-135.0	135.0					
100.0	100.0	100.0	100.0	0.4	0.4	-90.30	-0.7	-135.0	135.0	134.5	0.55	243.907		
200.0	200.0	200.0	200.0	1.0	1.0	-90.30	-0.7	-135.0	135.0	133.4	1.60	84.646		
300.0	300.0	300.0	300.0	1.5	1.5	-90.30	-0.7	-135.0	135.0	132.6	2.45	55.150		
400.0	400.0	400.0	400.0	1.9	1.9	-90.30	-0.7	-135.0	135.0	131.8	3.24	41.725		
500.0	500.0	500.0	500.0	2.3	2.3	-90.30	-0.7	-135.0	135.0	131.0	4.00	33.780		
600.0	600.0	600.0	600.0	2.7	2.7	-90.30	-0.7	-135.0	135.0	130.3	4.74	28.458	CC, ES	
700.0	700.0	695.8	695.7	3.1	3.0	-90.54	-1.3	-136.5	136.6	131.0	5.54	24.660		
800.0	800.0	791.3	791.2	3.5	3.9	-91.23	-3.0	-141.0	141.3	134.3	6.94	20.353		
900.0	900.0	886.4	885.9	3.9	4.7	-92.29	-5.9	-148.3	149.1	140.9	8.18	18.232		
1,000.0	1,000.0	980.9	979.8	4.2	5.5	-93.59	-9.9	-158.6	160.2	150.9	9.30	17.227		
1,100.0	1,100.0	1,074.6	1,072.4	4.6	6.1	-95.01	-15.0	-171.5	174.4	164.1	10.33	16.883	SF	
1,200.0	1,200.0	1,167.0	1,163.3	4.9	6.6	146.17	-21.1	-187.1	193.2	182.0	11.28	17.127		
1,300.0	1,299.8	1,263.0	1,257.3	5.3	6.9	145.28	-28.2	-205.1	217.0	204.9	12.08	17.962		
1,400.0	1,399.5	1,359.4	1,351.7	6.0	7.2	144.96	-35.4	-223.3	243.6	230.7	12.82	18.995		
1,500.0	1,498.7	1,455.0	1,445.3	6.7	7.4	145.03	-42.4	-241.2	272.9	259.3	13.57	20.116		
1,600.0	1,597.5	1,549.6	1,538.0	7.4	7.7	145.38	-49.4	-259.1	305.0	290.7	14.31	21.311		
1,700.0	1,695.8	1,643.4	1,629.9	7.7	8.0	146.11	-56.4	-276.7	339.3	324.3	14.91	22.754		
1,800.0	1,794.0	1,737.2	1,721.7	8.0	8.3	146.84	-63.3	-294.4	373.8	358.3	15.51	24.104		
1,900.0	1,892.3	1,831.0	1,813.6	8.3	8.6	147.45	-70.2	-312.0	408.3	392.2	16.12	25.330		
2,000.0	1,990.6	1,924.7	1,905.4	8.6	8.9	147.96	-77.2	-329.7	442.9	426.1	16.74	26.456		
2,100.0	2,088.8	2,018.5	1,997.2	8.9	9.2	148.40	-84.1	-347.3	477.5	460.1	17.37	27.482		
2,200.0	2,187.1	2,112.3	2,089.0	9.2	9.5	148.78	-91.0	-365.0	512.1	494.1	18.02	28.422		
2,300.0	2,285.3	2,206.0	2,180.9	9.6	9.9	149.11	-98.0	-382.6	546.8	528.1	18.67	29.284		
2,400.0	2,383.6	2,299.8	2,272.7	9.9	10.2	149.40	-104.9	-400.3	581.4	562.1	19.33	30.075		
2,500.0	2,481.9	2,393.6	2,364.5	10.3	10.6	149.66	-111.8	-417.9	616.1	596.1	20.00	30.802		
2,600.0	2,580.1	2,487.3	2,456.3	10.7	11.0	149.89	-118.8	-435.6	650.8	630.1	20.68	31.472		
2,700.0	2,678.4	2,581.1	2,548.2	11.1	11.4	150.10	-125.7	-453.2	685.5	664.1	21.36	32.091		
2,800.0	2,776.6	2,674.8	2,640.0	11.5	11.8	150.29	-132.6	-470.9	720.2	698.1	22.05	32.664		
2,900.0	2,874.9	2,768.6	2,731.8	11.9	12.3	150.46	-139.6	-488.5	754.9	732.1	22.74	33.195		
3,000.0	2,973.2	2,862.4	2,823.6	12.3	12.7	150.62	-146.5	-506.2	789.6	766.1	23.44	33.688		
3,100.0	3,071.4	2,956.1	2,915.5	12.8	13.1	150.76	-153.4	-523.8	824.3	800.1	24.14	34.147		
3,200.0	3,169.7	3,049.9	3,007.3	13.2	13.6	150.89	-160.4	-541.5	859.0	834.2	24.85	34.574		
3,300.0	3,268.0	3,143.7	3,099.1	13.6	14.0	151.01	-167.3	-559.1	893.7	868.2	25.55	34.973		
3,400.0	3,366.2	3,237.4	3,190.9	14.1	14.5	151.12	-174.2	-576.8	928.4	902.2	26.27	35.346		
3,500.0	3,464.5	3,331.2	3,282.8	14.6	14.9	151.23	-181.2	-594.4	963.2	936.2	26.98	35.695		
3,600.0	3,562.7	3,424.9	3,374.6	15.0	15.4	151.32	-188.1	-612.1	997.9	970.2	27.70	36.023		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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
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	
3,700.0	3,661.0	3,518.7	3,466.4	15.5	15.9	151.41	-195.1	-629.7	1,032.6	1,004.2	28.42	36.331		
3,800.0	3,759.3	3,612.5	3,558.2	15.9	16.3	151.50	-202.0	-647.4	1,067.4	1,038.2	29.15	36.620		
3,900.0	3,857.5	3,706.2	3,650.1	16.4	16.8	151.58	-208.9	-665.0	1,102.1	1,072.2	29.87	36.893		
4,000.0	3,955.8	3,800.0	3,741.9	16.9	17.2	151.65	-215.9	-682.7	1,136.8	1,106.2	30.60	37.150		
4,100.0	4,054.1	3,893.8	3,833.7	17.3	17.7	151.72	-222.8	-700.3	1,171.6	1,140.2	31.33	37.393		
4,200.0	4,152.3	3,987.5	3,925.5	17.8	18.2	151.79	-229.7	-718.0	1,206.3	1,174.2	32.06	37.622		
4,300.0	4,250.6	4,081.3	4,017.4	18.2	18.6	151.85	-236.7	-735.6	1,241.1	1,208.3	32.80	37.839		
4,400.0	4,348.8	4,175.0	4,109.2	18.7	19.1	151.91	-243.6	-753.3	1,275.8	1,242.3	33.53	38.045		
4,500.0	4,447.1	4,268.8	4,201.0	19.2	19.6	151.96	-250.5	-770.9	1,310.5	1,276.3	34.27	38.241		
4,600.0	4,545.4	4,362.6	4,292.8	19.7	20.0	152.01	-257.5	-788.6	1,345.3	1,310.3	35.01	38.426		
4,700.0	4,643.6	4,456.3	4,384.7	20.1	20.5	152.06	-264.4	-806.2	1,380.0	1,344.3	35.75	38.603		
4,800.0	4,741.9	4,550.1	4,476.5	20.6	21.0	152.11	-271.3	-823.9	1,414.8	1,378.3	36.49	38.771		
4,900.0	4,840.2	4,643.9	4,568.3	21.1	21.4	152.16	-278.3	-841.5	1,449.5	1,412.3	37.23	38.931		
5,000.0	4,938.4	4,737.6	4,660.1	21.5	21.9	152.20	-285.2	-859.2	1,484.3	1,446.3	37.98	39.083		
5,100.0	5,036.7	4,831.4	4,752.0	22.0	22.4	152.24	-292.1	-876.8	1,519.0	1,480.3	38.72	39.229		
5,200.0	5,134.9	4,925.2	4,843.8	22.5	22.8	152.28	-299.1	-894.5	1,553.8	1,514.3	39.47	39.368		
5,300.0	5,233.2	5,018.9	4,935.6	23.0	23.3	152.32	-306.0	-912.1	1,588.5	1,548.3	40.21	39.501		
5,400.0	5,331.5	5,112.7	5,027.4	23.4	23.8	152.35	-312.9	-929.8	1,623.3	1,582.3	40.96	39.628		
5,500.0	5,429.7	5,206.4	5,119.3	23.9	24.2	152.39	-319.9	-947.5	1,658.0	1,616.3	41.71	39.750		
5,600.0	5,528.0	5,300.2	5,211.1	24.4	24.7	152.42	-326.8	-965.1	1,692.8	1,650.3	42.46	39.867		
5,700.0	5,626.2	5,394.0	5,302.9	24.9	25.2	152.45	-333.7	-982.8	1,727.5	1,684.3	43.21	39.978		
5,800.0	5,724.5	5,487.7	5,394.7	25.3	25.6	152.48	-340.7	-1,000.4	1,762.3	1,718.3	43.96	40.086		
5,900.0	5,822.8	5,581.5	5,486.6	25.8	26.1	152.51	-347.6	-1,018.1	1,797.0	1,752.3	44.72	40.189		
6,000.0	5,921.0	5,675.3	5,578.4	26.3	26.6	152.54	-354.5	-1,035.7	1,831.8	1,786.3	45.47	40.287		
6,100.0	6,019.3	5,769.0	5,670.2	26.8	27.0	152.57	-361.5	-1,053.4	1,866.5	1,820.3	46.22	40.382		
6,200.0	6,117.6	5,862.8	5,762.0	27.2	27.5	152.59	-368.4	-1,071.0	1,901.3	1,854.3	46.98	40.474		
6,300.0	6,215.8	5,956.5	5,853.9	27.7	28.0	152.62	-375.3	-1,088.7	1,936.1	1,888.3	47.73	40.562		
6,400.0	6,314.1	6,050.3	5,945.7	28.2	28.4	152.64	-382.3	-1,106.3	1,970.8	1,922.3	48.49	40.647		
6,500.0	6,412.3	6,144.1	6,037.5	28.7	28.9	152.67	-389.2	-1,124.0	2,005.6	1,956.3	49.24	40.728		
6,600.0	6,510.6	6,237.8	6,129.3	29.1	29.4	152.69	-396.1	-1,141.6	2,040.3	1,990.3	50.00	40.807		
6,700.0	6,608.9	6,331.6	6,221.2	29.6	29.9	152.71	-403.1	-1,159.3	2,075.1	2,024.3	50.76	40.883		
6,800.0	6,707.4	6,425.0	6,312.7	30.1	30.3	-150.70	-410.0	-1,176.8	2,109.7	2,058.2	51.50	40.967		
6,900.0	6,804.5	6,515.9	6,401.6	30.5	30.8	-117.03	-416.7	-1,193.9	2,143.4	2,091.0	52.36	40.938		
7,000.0	6,897.3	6,601.4	6,485.4	30.9	31.2	-103.01	-423.0	-1,210.0	2,175.8	2,122.7	53.02	41.035		
7,100.0	6,982.9	6,679.0	6,561.4	31.3	31.6	-95.57	-428.8	-1,224.7	2,206.7	2,153.2	53.47	41.269		

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	-90.28	-0.4	-90.0	90.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.28	-0.4	-90.0	90.0	89.7	0.28	324.998		
200.0	200.0	200.0	200.0	1.0	0.0	-90.28	-0.4	-90.0	90.0	89.2	0.80	112.838		
300.0	300.0	300.0	300.0	1.5	0.0	-90.28	-0.4	-90.0	90.0	88.8	1.22	73.522		
400.0	400.0	400.0	400.0	1.9	0.0	-90.28	-0.4	-90.0	90.0	88.4	1.62	55.626		
500.0	500.0	500.0	500.0	2.3	0.0	-90.28	-0.4	-90.0	90.0	88.0	2.00	45.034		
600.0	600.0	600.0	600.0	2.7	0.0	-90.28	-0.4	-90.0	90.0	87.6	2.37	37.940		
700.0	700.0	700.0	700.0	3.1	0.0	-90.28	-0.4	-90.0	90.0	87.3	2.74	32.826		
800.0	800.0	800.0	800.0	3.5	0.0	-90.28	-0.4	-90.0	90.0	86.9	3.11	28.950		
900.0	900.0	900.0	900.0	3.9	0.0	-90.28	-0.4	-90.0	90.0	86.5	3.47	25.907 CC, ES		
1,000.0	1,000.0	997.6	997.5	4.2	0.0	-90.92	-1.5	-91.3	91.4	87.5	3.85	23.746		
1,100.0	1,100.0	1,094.9	1,094.7	4.6	0.0	-92.75	-4.6	-95.2	95.4	91.2	4.23	22.542		
1,200.0	1,200.0	1,191.7	1,191.2	4.9	0.0	147.53	-9.7	-101.6	103.9	99.2	4.71	22.080		
1,300.0	1,299.8	1,287.7	1,286.5	5.3	0.0	145.62	-16.7	-110.5	118.2	113.0	5.25	22.525		
1,400.0	1,399.5	1,385.9	1,383.9	6.0	0.0	144.55	-24.9	-120.7	136.7	130.9	5.74	23.795		
1,500.0	1,498.7	1,483.6	1,480.7	6.7	0.0	144.40	-32.9	-130.8	157.9	151.7	6.22	25.389		
1,600.0	1,597.5	1,580.7	1,576.9	7.4	0.0	144.85	-41.0	-140.9	181.9	175.2	6.69	27.175		
1,700.0	1,695.8	1,677.1	1,672.5	7.7	0.0	145.75	-48.9	-150.9	208.1	201.1	7.02	29.659		
1,800.0	1,794.0	1,773.5	1,768.0	8.0	0.0	146.56	-56.9	-160.9	234.6	227.3	7.33	32.001		
1,900.0	1,892.3	1,869.9	1,863.6	8.3	0.0	147.21	-64.9	-170.9	261.1	253.4	7.65	34.133		
2,000.0	1,990.6	1,966.3	1,959.1	8.6	0.0	147.74	-72.8	-180.9	287.6	279.6	7.97	36.074		
2,100.0	2,088.8	2,062.7	2,054.7	8.9	0.0	148.18	-80.8	-190.9	314.1	305.8	8.30	37.845		
2,200.0	2,187.1	2,159.1	2,150.2	9.2	0.0	148.55	-88.7	-201.0	340.7	332.0	8.63	39.461		
2,300.0	2,285.3	2,255.5	2,245.7	9.6	0.0	148.87	-96.7	-211.0	367.2	358.3	8.97	40.939		
2,400.0	2,383.6	2,351.9	2,341.3	9.9	0.0	149.14	-104.7	-221.0	393.8	384.5	9.31	42.293		
2,500.0	2,481.9	2,448.3	2,436.8	10.3	0.0	149.38	-112.6	-231.0	420.4	410.7	9.66	43.535		
2,600.0	2,580.1	2,544.6	2,532.3	10.7	0.0	149.59	-120.6	-241.0	447.0	437.0	10.00	44.677		
2,700.0	2,678.4	2,641.0	2,627.9	11.1	0.0	149.78	-128.6	-251.0	473.6	463.2	10.36	45.730		
2,800.0	2,776.6	2,737.4	2,723.4	11.5	0.0	149.95	-136.5	-261.0	500.1	489.4	10.71	46.701		
2,900.0	2,874.9	2,833.8	2,819.0	11.9	0.0	150.10	-144.5	-271.0	526.7	515.7	11.07	47.599		
3,000.0	2,973.2	2,930.2	2,914.5	12.3	0.0	150.23	-152.5	-281.0	553.3	541.9	11.42	48.432		
3,100.0	3,071.4	3,026.6	3,010.0	12.8	0.0	150.36	-160.4	-291.0	579.9	568.1	11.79	49.205		
3,200.0	3,169.7	3,123.0	3,105.6	13.2	0.0	150.47	-168.4	-301.0	606.5	594.4	12.15	49.924		
3,300.0	3,268.0	3,219.4	3,201.1	13.6	0.0	150.57	-176.4	-311.0	633.1	620.6	12.51	50.593		
3,400.0	3,366.2	3,315.8	3,296.7	14.1	0.0	150.67	-184.3	-321.0	659.7	646.9	12.88	51.218		
3,500.0	3,464.5	3,412.2	3,392.2	14.6	0.0	150.76	-192.3	-331.0	686.4	673.1	13.25	51.803		
3,600.0	3,562.7	3,508.5	3,487.7	15.0	0.0	150.84	-200.2	-341.0	713.0	699.3	13.62	52.350		
3,700.0	3,661.0	3,604.9	3,583.3	15.5	0.0	150.91	-208.2	-351.0	739.6	725.6	13.99	52.864		
3,800.0	3,759.3	3,701.3	3,678.8	15.9	0.0	150.98	-216.2	-361.1	766.2	751.8	14.36	53.346		
3,900.0	3,857.5	3,797.7	3,774.3	16.4	0.0	151.05	-224.1	-371.1	792.8	778.1	14.74	53.799		
4,000.0	3,955.8	3,894.1	3,869.9	16.9	0.0	151.11	-232.1	-381.1	819.4	804.3	15.11	54.227		
4,100.0	4,054.1	3,990.5	3,965.4	17.3	0.0	151.17	-240.1	-391.1	846.0	830.5	15.49	54.630		
4,200.0	4,152.3	4,086.9	4,061.0	17.8	0.0	151.22	-248.0	-401.1	872.6	856.8	15.86	55.010		
4,300.0	4,250.6	4,183.3	4,156.5	18.2	0.0	151.27	-256.0	-411.1	899.2	883.0	16.24	55.370		
4,400.0	4,348.8	4,279.7	4,252.0	18.7	0.0	151.32	-264.0	-421.1	925.9	909.2	16.62	55.711		
4,500.0	4,447.1	4,376.1	4,347.6	19.2	0.0	151.36	-271.9	-431.1	952.5	935.5	17.00	56.034		
4,600.0	4,545.4	4,472.4	4,443.1	19.7	0.0	151.41	-279.9	-441.1	979.1	961.7	17.38	56.340		
4,700.0	4,643.6	4,568.8	4,538.6	20.1	0.0	151.45	-287.8	-451.1	1,005.7	988.0	17.76	56.632		
4,800.0	4,741.9	4,665.2	4,634.2	20.6	0.0	151.48	-295.8	-461.1	1,032.3	1,014.2	18.14	56.909		
4,900.0	4,840.2	4,761.6	4,729.7	21.1	0.0	151.52	-303.8	-471.1	1,059.0	1,040.4	18.52	57.172		
5,000.0	4,938.4	4,858.0	4,825.3	21.5	0.0	151.56	-311.7	-481.1	1,085.6	1,066.7	18.90	57.423		
5,100.0	5,036.7	4,954.4	4,920.8	22.0	0.0	151.59	-319.7	-491.1	1,112.2	1,092.9	19.29	57.663		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	5,134.9	5,050.8	5,016.3	22.5	0.0	151.62	-327.7	-501.1	1,138.8	1,119.1	19.67	57.891		
5,300.0	5,233.2	5,147.2	5,111.9	23.0	0.0	151.65	-335.6	-511.1	1,165.4	1,145.4	20.06	58.109		
5,400.0	5,331.5	5,243.6	5,207.4	23.4	0.0	151.68	-343.6	-521.1	1,192.0	1,171.6	20.44	58.318		
5,500.0	5,429.7	5,340.0	5,303.0	23.9	0.0	151.71	-351.6	-531.2	1,218.7	1,197.8	20.83	58.518		
5,600.0	5,528.0	5,436.3	5,398.5	24.4	0.0	151.73	-359.5	-541.2	1,245.3	1,224.1	21.21	58.709		
5,700.0	5,626.2	5,532.7	5,494.0	24.9	0.0	151.76	-367.5	-551.2	1,271.9	1,250.3	21.60	58.892		
5,800.0	5,724.5	5,629.1	5,589.6	25.3	0.0	151.78	-375.5	-561.2	1,298.5	1,276.5	21.98	59.068		
5,900.0	5,822.8	5,725.5	5,685.1	25.8	0.0	151.80	-383.4	-571.2	1,325.2	1,302.8	22.37	59.236		
6,000.0	5,921.0	5,821.9	5,780.6	26.3	0.0	151.83	-391.4	-581.2	1,351.8	1,329.0	22.76	59.398		
6,100.0	6,019.3	5,918.3	5,876.2	26.8	0.0	151.85	-399.3	-591.2	1,378.4	1,355.2	23.15	59.553		
6,200.0	6,117.6	6,014.7	5,971.7	27.2	0.0	151.87	-407.3	-601.2	1,405.0	1,381.5	23.53	59.703		
6,300.0	6,215.8	6,111.1	6,067.3	27.7	0.0	151.89	-415.3	-611.2	1,431.6	1,407.7	23.92	59.846		
6,400.0	6,314.1	6,207.5	6,162.8	28.2	0.0	151.91	-423.2	-621.2	1,458.3	1,433.9	24.31	59.985		
6,500.0	6,412.3	6,303.9	6,258.3	28.7	0.0	151.93	-431.2	-631.2	1,484.9	1,460.2	24.70	60.118		
6,600.0	6,510.6	6,400.2	6,353.9	29.1	0.0	151.94	-439.2	-641.2	1,511.5	1,486.4	25.09	60.246		
6,700.0	6,608.9	6,496.6	6,449.4	29.6	0.0	151.96	-447.1	-651.2	1,538.1	1,512.6	25.48	60.370		
6,800.0	6,707.4	6,592.6	6,544.5	30.1	0.0	-152.41	-455.1	-661.2	1,564.7	1,538.8	25.87	60.481		
6,900.0	6,804.5	6,685.8	6,636.9	30.5	0.0	-119.82	-462.8	-670.9	1,591.0	1,564.5	26.45	60.158		
7,000.0	6,897.3	6,779.7	6,730.1	30.9	0.0	-106.80	-465.6	-680.7	1,616.7	1,589.8	26.92	60.059		
7,100.0	6,982.9	6,860.9	6,829.7	31.3	0.0	-100.20	-451.9	-691.3	1,641.4	1,614.2	27.26	60.222		
7,200.0	7,058.8	6,931.2	6,933.6	31.5	0.0	-96.31	-417.1	-702.5	1,664.2	1,636.7	27.52	60.462		
7,300.0	7,122.6	7,112.7	7,038.0	31.7	0.0	-93.92	-356.5	-714.0	1,684.3	1,656.6	27.75	60.689		
7,400.0	7,172.5	7,247.3	7,136.0	31.7	0.0	-92.51	-265.3	-725.1	1,700.8	1,672.8	27.96	60.840		
7,500.0	7,206.8	7,395.4	7,216.0	31.7	0.0	-91.77	-141.5	-734.6	1,712.7	1,684.6	28.15	60.841		
7,600.0	7,224.5	7,554.5	7,263.8	31.7	0.0	-91.50	9.5	-740.9	1,719.2	1,690.8	28.37	60.607		
7,700.0	7,227.0	7,692.4	7,272.0	31.6	0.0	-91.50	147.0	-742.9	1,720.2	1,691.5	28.63	60.075		
7,800.0	7,227.0	7,792.4	7,272.0	31.7	0.0	-91.50	246.9	-743.7	1,720.2	1,691.2	29.00	59.308		
7,900.0	7,227.0	7,892.4	7,272.0	31.8	0.0	-91.50	346.9	-744.5	1,720.2	1,690.7	29.48	58.354		
8,000.0	7,227.0	7,992.4	7,272.0	32.0	0.0	-91.50	446.9	-745.3	1,720.2	1,690.1	30.05	57.246		
8,100.0	7,227.0	8,092.4	7,272.0	32.5	0.0	-91.50	546.9	-746.2	1,720.2	1,689.5	30.71	56.012		
8,200.0	7,227.0	8,192.4	7,272.0	33.0	0.0	-91.50	646.9	-747.0	1,720.2	1,688.7	31.46	54.682		
8,300.0	7,227.0	8,292.4	7,272.0	33.7	0.0	-91.50	746.9	-747.8	1,720.2	1,687.9	32.28	53.283		
8,400.0	7,227.0	8,392.4	7,272.0	34.6	0.0	-91.50	846.9	-748.7	1,720.2	1,687.0	33.18	51.838		
8,500.0	7,227.0	8,492.4	7,272.0	35.5	0.0	-91.50	946.9	-749.5	1,720.2	1,686.0	34.15	50.370		
8,600.0	7,227.0	8,592.4	7,272.0	36.5	0.0	-91.50	1,046.9	-750.3	1,720.2	1,685.0	35.18	48.896		
8,700.0	7,227.0	8,692.4	7,272.0	37.5	0.0	-91.50	1,146.9	-751.1	1,720.2	1,683.9	36.27	47.432		
8,800.0	7,227.0	8,792.4	7,272.0	38.6	0.0	-91.50	1,246.9	-752.0	1,720.2	1,682.8	37.40	45.989		
8,900.0	7,227.0	8,892.4	7,272.0	39.8	0.0	-91.50	1,346.9	-752.8	1,720.2	1,681.6	38.59	44.577		
9,000.0	7,227.0	8,992.4	7,272.0	41.0	0.0	-91.50	1,446.9	-753.6	1,720.2	1,680.4	39.82	43.202		
9,100.0	7,227.0	9,092.4	7,272.0	42.2	0.0	-91.50	1,546.9	-754.4	1,720.2	1,679.1	41.08	41.869		
9,200.0	7,227.0	9,192.4	7,272.0	43.5	0.0	-91.50	1,646.9	-755.3	1,720.2	1,677.8	42.39	40.582		
9,300.0	7,227.0	9,292.4	7,272.0	44.8	0.0	-91.50	1,746.9	-756.1	1,720.2	1,676.5	43.72	39.343		
9,400.0	7,227.0	9,392.4	7,272.0	46.1	0.0	-91.50	1,846.9	-756.9	1,720.2	1,675.1	45.09	38.152		
9,500.0	7,227.0	9,492.4	7,272.0	47.5	0.0	-91.50	1,946.9	-757.8	1,720.2	1,673.7	46.48	37.009		
9,600.0	7,227.0	9,592.4	7,272.0	48.9	0.0	-91.50	2,046.9	-758.6	1,720.2	1,672.3	47.90	35.915		
9,700.0	7,227.0	9,692.4	7,272.0	50.3	0.0	-91.50	2,146.9	-759.4	1,720.2	1,670.8	49.33	34.867		
9,800.0	7,227.0	9,792.4	7,272.0	51.7	0.0	-91.50	2,246.9	-760.2	1,720.2	1,669.4	50.79	33.865		
9,900.0	7,227.0	9,892.4	7,272.0	53.2	0.0	-91.50	2,346.9	-761.1	1,720.2	1,667.9	52.27	32.908		
10,000.0	7,227.0	9,992.4	7,272.0	54.7	0.0	-91.50	2,446.9	-761.9	1,720.2	1,666.4	53.77	31.992		
10,100.0	7,227.0	10,092.4	7,272.0	56.2	0.0	-91.50	2,546.9	-762.7	1,720.2	1,664.9	55.28	31.117		
10,200.0	7,227.0	10,192.4	7,272.0	57.7	0.0	-91.50	2,646.9	-763.5	1,720.2	1,663.4	56.81	30.281		
10,300.0	7,227.0	10,292.4	7,272.0	59.2	0.0	-91.50	2,746.9	-764.4	1,720.2	1,661.8	58.35	29.482		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	10,392.4	7,272.0	60.7	0.0	-91.50	2,846.9	-765.2	1,720.2	1,660.3	59.90	28.718		
10,500.0	7,227.0	10,492.4	7,272.0	62.3	0.0	-91.50	2,946.9	-766.0	1,720.2	1,658.7	61.46	27.988		
10,600.0	7,227.0	10,592.4	7,272.0	63.8	0.0	-91.50	3,046.9	-766.9	1,720.2	1,657.1	63.04	27.289		
10,700.0	7,227.0	10,692.4	7,272.0	65.4	0.0	-91.50	3,146.8	-767.7	1,720.2	1,655.6	64.62	26.620		
10,800.0	7,227.0	10,792.4	7,272.0	67.0	0.0	-91.50	3,246.8	-768.5	1,720.2	1,654.0	66.21	25.979		
10,900.0	7,227.0	10,892.4	7,272.0	68.6	0.0	-91.50	3,346.8	-769.3	1,720.2	1,652.4	67.82	25.366		
11,000.0	7,227.0	10,992.4	7,272.0	70.2	0.0	-91.50	3,446.8	-770.2	1,720.2	1,650.8	69.43	24.777		
11,100.0	7,227.0	11,092.4	7,272.0	71.8	0.0	-91.50	3,546.8	-771.0	1,720.2	1,649.1	71.04	24.213		
11,200.0	7,227.0	11,192.4	7,272.0	73.4	0.0	-91.50	3,646.8	-771.8	1,720.2	1,647.5	72.67	23.672		
11,300.0	7,227.0	11,292.4	7,272.0	75.0	0.0	-91.50	3,746.8	-772.6	1,720.2	1,645.9	74.30	23.153		
11,400.0	7,227.0	11,392.4	7,272.0	76.6	0.0	-91.50	3,846.8	-773.5	1,720.2	1,644.3	75.93	22.654		
11,500.0	7,227.0	11,492.4	7,272.0	78.2	0.0	-91.50	3,946.8	-774.3	1,720.2	1,642.6	77.58	22.174		
11,600.0	7,227.0	11,592.4	7,272.0	79.9	0.0	-91.50	4,046.8	-775.1	1,720.2	1,641.0	79.22	21.713		
11,700.0	7,227.0	11,692.4	7,272.0	81.5	0.0	-91.50	4,146.8	-775.9	1,720.2	1,639.3	80.88	21.270		
11,800.0	7,227.0	11,792.4	7,272.0	83.2	0.0	-91.50	4,246.8	-776.8	1,720.2	1,637.7	82.53	20.843		
11,900.0	7,227.0	11,892.4	7,272.0	84.8	0.0	-91.50	4,346.8	-777.6	1,720.2	1,636.0	84.19	20.431		
12,000.0	7,227.0	11,992.4	7,272.0	86.5	0.0	-91.50	4,446.8	-778.4	1,720.2	1,634.3	85.86	20.035		
12,100.0	7,227.0	12,092.4	7,272.0	88.1	0.0	-91.50	4,546.8	-779.3	1,720.2	1,632.7	87.53	19.653		
12,200.0	7,227.0	12,192.4	7,272.0	89.8	0.0	-91.50	4,646.8	-780.1	1,720.2	1,631.0	89.20	19.284		
12,300.0	7,227.0	12,292.4	7,272.0	91.4	0.0	-91.50	4,746.8	-780.9	1,720.2	1,629.3	90.88	18.928		
12,400.0	7,227.0	12,392.4	7,272.0	93.1	0.0	-91.50	4,846.8	-781.7	1,720.2	1,627.6	92.56	18.585		
12,500.0	7,227.0	12,492.4	7,272.0	94.8	0.0	-91.50	4,946.8	-782.6	1,720.2	1,625.9	94.24	18.253		
12,600.0	7,227.0	12,592.4	7,272.0	96.5	0.0	-91.50	5,046.8	-783.4	1,720.2	1,624.3	95.93	17.932		
12,700.0	7,227.0	12,692.4	7,272.0	98.1	0.0	-91.50	5,146.8	-784.2	1,720.2	1,622.6	97.62	17.622		
12,800.0	7,227.0	12,792.4	7,272.0	99.8	0.0	-91.50	5,246.8	-785.0	1,720.2	1,620.9	99.31	17.322		
12,900.0	7,227.0	12,892.4	7,272.0	101.5	0.0	-91.50	5,346.8	-785.9	1,720.2	1,619.2	101.00	17.031		
13,000.0	7,227.0	12,992.4	7,272.0	103.2	0.0	-91.50	5,446.8	-786.7	1,720.2	1,617.5	102.70	16.750		
13,100.0	7,227.0	13,092.4	7,272.0	104.9	0.0	-91.50	5,546.8	-787.5	1,720.2	1,615.8	104.40	16.477		
13,200.0	7,227.0	13,192.4	7,272.0	106.6	0.0	-91.50	5,646.8	-788.4	1,720.2	1,614.1	106.10	16.213		
13,300.0	7,227.0	13,292.4	7,272.0	108.3	0.0	-91.50	5,746.8	-789.2	1,720.2	1,612.4	107.80	15.957		
13,400.0	7,227.0	13,392.4	7,272.0	110.0	0.0	-91.50	5,846.8	-790.0	1,720.2	1,610.7	109.51	15.709		
13,500.0	7,227.0	13,492.4	7,272.0	111.7	0.0	-91.50	5,946.8	-790.8	1,720.2	1,609.0	111.21	15.468		
13,600.0	7,227.0	13,592.4	7,272.0	113.4	0.0	-91.50	6,046.7	-791.7	1,720.2	1,607.3	112.92	15.234		
13,700.0	7,227.0	13,692.4	7,272.0	115.1	0.0	-91.50	6,146.7	-792.5	1,720.2	1,605.6	114.63	15.006		
13,800.0	7,227.0	13,792.4	7,272.0	116.8	0.0	-91.50	6,246.7	-793.3	1,720.2	1,603.9	116.34	14.785		
13,900.0	7,227.0	13,892.4	7,272.0	118.5	0.0	-91.50	6,346.7	-794.1	1,720.2	1,602.1	118.06	14.571		
14,000.0	7,227.0	13,992.4	7,272.0	120.2	0.0	-91.50	6,446.7	-795.0	1,720.2	1,600.4	119.77	14.362		
14,100.0	7,227.0	14,092.4	7,272.0	121.9	0.0	-91.50	6,546.7	-795.8	1,720.2	1,598.7	121.49	14.159		
14,200.0	7,227.0	14,192.4	7,272.0	123.6	0.0	-91.50	6,646.7	-796.6	1,720.2	1,597.0	123.21	13.962		
14,300.0	7,227.0	14,292.4	7,272.0	125.3	0.0	-91.50	6,746.7	-797.5	1,720.2	1,595.3	124.93	13.770		
14,400.0	7,227.0	14,392.4	7,272.0	127.1	0.0	-91.50	6,846.7	-798.3	1,720.2	1,593.6	126.65	13.583		
14,500.0	7,227.0	14,492.4	7,272.0	128.8	0.0	-91.50	6,946.7	-799.1	1,720.2	1,591.8	128.37	13.401		
14,600.0	7,227.0	14,592.4	7,272.0	130.5	0.0	-91.50	7,046.7	-799.9	1,720.2	1,590.1	130.09	13.223		
14,700.0	7,227.0	14,692.4	7,272.0	132.2	0.0	-91.50	7,146.7	-800.8	1,720.2	1,588.4	131.81	13.050		
14,800.0	7,227.0	14,792.4	7,272.0	133.9	0.0	-91.50	7,246.7	-801.6	1,720.2	1,586.7	133.54	12.882		
14,900.0	7,227.0	14,892.4	7,272.0	135.7	0.0	-91.50	7,346.7	-802.4	1,720.2	1,584.9	135.26	12.717		
15,000.0	7,227.0	14,992.4	7,272.0	137.4	0.0	-91.50	7,446.7	-803.2	1,720.2	1,583.2	136.99	12.557		
15,100.0	7,227.0	15,092.4	7,272.0	139.1	0.0	-91.50	7,546.7	-804.1	1,720.2	1,581.5	138.72	12.401		
15,200.0	7,227.0	15,192.4	7,272.0	140.8	0.0	-91.50	7,646.7	-804.9	1,720.2	1,579.8	140.45	12.248		
15,300.0	7,227.0	15,292.4	7,272.0	142.5	0.0	-91.50	7,746.7	-805.7	1,720.2	1,578.0	142.18	12.099		
15,400.0	7,227.0	15,392.4	7,272.0	144.3	0.0	-91.50	7,846.7	-806.6	1,720.2	1,576.3	143.91	11.953		
15,500.0	7,227.0	15,492.4	7,272.0	146.0	0.0	-91.50	7,946.7	-807.4	1,720.2	1,574.6	145.64	11.811		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	15,592.4	7,272.0	147.7	0.0	-91.50	8,046.7	-808.2	1,720.2	1,572.8	147.37	11.672		
15,700.0	7,227.0	15,692.4	7,272.0	149.5	0.0	-91.50	8,146.7	-809.0	1,720.2	1,571.1	149.11	11.537		
15,800.0	7,227.0	15,792.4	7,272.0	151.2	0.0	-91.50	8,246.7	-809.9	1,720.2	1,569.4	150.84	11.404		
15,900.0	7,227.0	15,892.4	7,272.0	152.9	0.0	-91.50	8,346.7	-810.7	1,720.2	1,567.6	152.57	11.275		
16,000.0	7,227.0	15,992.4	7,272.0	154.7	0.0	-91.50	8,446.7	-811.5	1,720.2	1,565.9	154.31	11.148		
16,100.0	7,227.0	16,092.4	7,272.0	156.4	0.0	-91.50	8,546.7	-812.3	1,720.2	1,564.2	156.05	11.024		
16,200.0	7,227.0	16,192.4	7,272.0	158.1	0.0	-91.50	8,646.7	-813.2	1,720.2	1,562.4	157.78	10.902		
16,300.0	7,227.0	16,292.4	7,272.0	159.9	0.0	-91.50	8,746.7	-814.0	1,720.2	1,560.7	159.52	10.784		
16,400.0	7,227.0	16,392.4	7,272.0	161.6	0.0	-91.50	8,846.7	-814.8	1,720.2	1,558.9	161.26	10.667		
16,500.0	7,227.0	16,492.4	7,272.0	163.3	0.0	-91.50	8,946.6	-815.7	1,720.2	1,557.2	163.00	10.554		
16,600.0	7,227.0	16,592.4	7,272.0	165.1	0.0	-91.50	9,046.6	-816.5	1,720.2	1,555.5	164.73	10.442		
16,700.0	7,227.0	16,692.4	7,272.0	166.8	0.0	-91.50	9,146.6	-817.3	1,720.2	1,553.7	166.47	10.333		
16,800.0	7,227.0	16,792.4	7,272.0	168.5	0.0	-91.50	9,246.6	-818.1	1,720.2	1,552.0	168.21	10.226		
16,900.0	7,227.0	16,892.4	7,272.0	170.3	0.0	-91.50	9,346.6	-819.0	1,720.2	1,550.3	169.95	10.122		
17,000.0	7,227.0	16,992.4	7,272.0	172.0	0.0	-91.50	9,446.6	-819.8	1,720.2	1,548.5	171.70	10.019		
17,100.0	7,227.0	17,092.4	7,272.0	173.7	0.0	-91.50	9,546.6	-820.6	1,720.2	1,546.8	173.44	9.918		
17,200.0	7,227.0	17,192.4	7,272.0	175.5	0.0	-91.50	9,646.6	-821.4	1,720.2	1,545.0	175.18	9.820		
17,300.0	7,227.0	17,292.4	7,272.0	177.2	0.0	-91.50	9,746.6	-822.3	1,720.2	1,543.3	176.92	9.723		
17,400.0	7,227.0	17,392.4	7,272.0	179.0	0.0	-91.50	9,846.6	-823.1	1,720.2	1,541.5	178.66	9.628		
17,400.0	7,227.0	17,392.4	7,272.0	179.0	0.0	-91.50	9,846.7	-823.1	1,720.2	1,541.5	178.66	9.628		
17,451.3	7,227.0	17,429.8	7,272.0	179.9	0.0	-91.50	9,884.1	-823.4	1,720.3	1,540.8	179.46	9.586 SF		

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

Offset Design S19-T1S-R65W - CONNER 19-18-1NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.28	-0.5	-105.0	105.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.28	-0.5	-105.0	105.0	104.7	0.28	379.169		
200.0	200.0	200.0	200.0	1.0	0.0	-90.28	-0.5	-105.0	105.0	104.2	0.80	131.645		
300.0	300.0	300.0	300.0	1.5	0.0	-90.28	-0.5	-105.0	105.0	103.8	1.22	85.776		
400.0	400.0	400.0	400.0	1.9	0.0	-90.28	-0.5	-105.0	105.0	103.4	1.62	64.897		
500.0	500.0	500.0	500.0	2.3	0.0	-90.28	-0.5	-105.0	105.0	103.0	2.00	52.540		
600.0	600.0	600.0	600.0	2.7	0.0	-90.28	-0.5	-105.0	105.0	102.6	2.37	44.264		
700.0	700.0	700.0	700.0	3.1	0.0	-90.28	-0.5	-105.0	105.0	102.3	2.74	38.297		
800.0	800.0	800.0	800.0	3.5	0.0	-90.28	-0.5	-105.0	105.0	101.9	3.11	33.776 CC, ES		
900.0	900.0	896.8	896.8	3.9	0.0	-90.68	-1.3	-106.5	106.5	103.0	3.48	30.614		
1,000.0	1,000.0	993.4	993.2	4.2	0.0	-91.81	-3.5	-110.8	111.1	107.2	3.86	28.797		
1,100.0	1,100.0	1,089.5	1,089.0	4.6	0.0	-93.50	-7.2	-118.0	118.7	114.5	4.24	28.014		
1,200.0	1,200.0	1,184.9	1,183.7	4.9	0.0	147.31	-12.3	-127.9	131.0	126.3	4.70	27.905		
1,300.0	1,299.8	1,278.9	1,276.6	5.3	0.0	146.06	-18.8	-140.5	149.3	144.1	5.23	28.575		
1,400.0	1,399.5	1,375.4	1,371.8	6.0	0.0	145.39	-26.4	-155.2	172.4	166.7	5.72	30.140		
1,500.0	1,498.7	1,472.0	1,466.9	6.7	0.0	145.35	-34.0	-169.9	198.3	192.1	6.20	31.994		
1,600.0	1,597.5	1,567.8	1,561.3	7.4	0.0	145.74	-41.5	-184.5	227.0	220.3	6.67	34.024		
1,700.0	1,695.8	1,662.8	1,654.9	7.7	0.0	146.54	-49.0	-198.9	257.9	250.9	6.99	36.900		
1,800.0	1,794.0	1,757.8	1,748.5	8.0	0.0	147.28	-56.5	-213.4	289.1	281.8	7.30	39.619		
1,900.0	1,892.3	1,852.7	1,842.0	8.3	0.0	147.88	-63.9	-227.9	320.2	312.6	7.61	42.090		
2,000.0	1,990.6	1,947.7	1,935.6	8.6	0.0	148.38	-71.4	-242.3	351.4	343.5	7.93	44.342		
2,100.0	2,088.8	2,042.7	2,029.2	8.9	0.0	148.79	-78.9	-256.8	382.6	374.4	8.25	46.394		
2,200.0	2,187.1	2,137.6	2,122.7	9.2	0.0	149.14	-86.3	-271.3	413.8	405.3	8.57	48.267		
2,300.0	2,285.3	2,232.6	2,216.3	9.6	0.0	149.45	-93.8	-285.7	445.1	436.2	8.91	49.979		
2,400.0	2,383.6	2,327.6	2,309.9	9.9	0.0	149.71	-101.3	-300.2	476.3	467.1	9.24	51.548		
2,500.0	2,481.9	2,422.6	2,403.4	10.3	0.0	149.94	-108.7	-314.6	507.6	498.0	9.58	52.987		
2,600.0	2,580.1	2,517.5	2,497.0	10.7	0.0	150.14	-116.2	-329.1	538.8	528.9	9.92	54.310		
2,700.0	2,678.4	2,612.5	2,590.6	11.1	0.0	150.32	-123.7	-343.6	570.1	559.8	10.27	55.529		
2,800.0	2,776.6	2,707.5	2,684.1	11.5	0.0	150.49	-131.1	-358.0	601.4	590.8	10.62	56.653		
2,900.0	2,874.9	2,802.5	2,777.7	11.9	0.0	150.63	-138.6	-372.5	632.7	621.7	10.97	57.693		
3,000.0	2,973.2	2,897.4	2,871.2	12.3	0.0	150.77	-146.1	-387.0	663.9	652.6	11.32	58.656		
3,100.0	3,071.4	2,992.4	2,964.8	12.8	0.0	150.89	-153.5	-401.4	695.2	683.5	11.67	59.550		
3,200.0	3,169.7	3,087.4	3,058.4	13.2	0.0	151.00	-161.0	-415.9	726.5	714.5	12.03	60.382		
3,300.0	3,268.0	3,182.3	3,151.9	13.6	0.0	151.10	-168.5	-430.4	757.8	745.4	12.39	61.156		
3,400.0	3,366.2	3,277.3	3,245.5	14.1	0.0	151.19	-175.9	-444.8	789.1	776.3	12.75	61.879		
3,500.0	3,464.5	3,372.3	3,339.1	14.6	0.0	151.28	-183.4	-459.3	820.4	807.3	13.11	62.554		
3,600.0	3,562.7	3,467.3	3,432.6	15.0	0.0	151.36	-190.9	-473.8	851.7	838.2	13.48	63.186		
3,700.0	3,661.0	3,562.2	3,526.2	15.5	0.0	151.43	-198.3	-488.2	883.0	869.1	13.84	63.779		
3,800.0	3,759.3	3,657.2	3,619.8	15.9	0.0	151.50	-205.8	-502.7	914.2	900.0	14.21	64.335		
3,900.0	3,857.5	3,752.2	3,713.3	16.4	0.0	151.56	-213.3	-517.2	945.5	931.0	14.58	64.859		
4,000.0	3,955.8	3,847.1	3,806.9	16.9	0.0	151.62	-220.7	-531.6	976.8	961.9	14.95	65.351		
4,100.0	4,054.1	3,942.1	3,900.5	17.3	0.0	151.68	-228.2	-546.1	1,008.1	992.8	15.32	65.816		
4,200.0	4,152.3	4,037.1	3,994.0	17.8	0.0	151.73	-235.7	-560.5	1,039.4	1,023.7	15.69	66.254		
4,300.0	4,250.6	4,132.1	4,087.6	18.2	0.0	151.78	-243.1	-575.0	1,070.7	1,054.7	16.06	66.669		
4,400.0	4,348.8	4,227.0	4,181.2	18.7	0.0	151.83	-250.6	-589.5	1,102.0	1,085.6	16.43	67.061		
4,500.0	4,447.1	4,322.0	4,274.7	19.2	0.0	151.88	-258.1	-603.9	1,133.3	1,116.5	16.81	67.433		
4,600.0	4,545.4	4,417.0	4,368.3	19.7	0.0	151.92	-265.5	-618.4	1,164.6	1,147.5	17.18	67.785		
4,700.0	4,643.6	4,511.9	4,461.9	20.1	0.0	151.96	-273.0	-632.9	1,195.9	1,178.4	17.56	68.120		
4,800.0	4,741.9	4,606.9	4,555.4	20.6	0.0	152.00	-280.5	-647.3	1,227.2	1,209.3	17.93	68.438		
4,900.0	4,840.2	4,701.9	4,649.0	21.1	0.0	152.03	-287.9	-661.8	1,258.5	1,240.2	18.31	68.740		
5,000.0	4,938.4	4,796.9	4,742.6	21.5	0.0	152.07	-295.4	-676.3	1,289.8	1,271.2	18.69	69.028		
5,100.0	5,036.7	4,891.8	4,836.1	22.0	0.0	152.10	-302.9	-690.7	1,321.2	1,302.1	19.06	69.303		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	5,134.9	4,986.8	4,929.7	22.5	0.0	152.13	-310.3	-705.2	1,352.5	1,333.0	19.44	69.565		
5,300.0	5,233.2	5,081.8	5,023.3	23.0	0.0	152.16	-317.8	-719.7	1,383.8	1,363.9	19.82	69.815		
5,400.0	5,331.5	5,176.7	5,116.8	23.4	0.0	152.19	-325.3	-734.1	1,415.1	1,394.9	20.20	70.053		
5,500.0	5,429.7	5,271.7	5,210.4	23.9	0.0	152.22	-332.7	-748.6	1,446.4	1,425.8	20.58	70.282		
5,600.0	5,528.0	5,366.7	5,304.0	24.4	0.0	152.24	-340.2	-763.1	1,477.7	1,456.7	20.96	70.500		
5,700.0	5,626.2	5,461.7	5,397.5	24.9	0.0	152.27	-347.7	-777.5	1,509.0	1,487.6	21.34	70.709		
5,800.0	5,724.5	5,556.6	5,491.1	25.3	0.0	152.29	-355.1	-792.0	1,540.3	1,518.6	21.72	70.910		
5,900.0	5,822.8	5,651.6	5,584.7	25.8	0.0	152.31	-362.6	-806.5	1,571.6	1,549.5	22.10	71.102		
6,000.0	5,921.0	5,746.6	5,678.2	26.3	0.0	152.34	-370.1	-820.9	1,602.9	1,580.4	22.49	71.286		
6,100.0	6,019.3	5,841.5	5,771.8	26.8	0.0	152.36	-377.5	-835.4	1,634.2	1,611.3	22.87	71.463		
6,200.0	6,117.6	5,936.5	5,865.4	27.2	0.0	152.38	-385.0	-849.8	1,665.5	1,642.3	23.25	71.633		
6,300.0	6,215.8	6,031.5	5,958.9	27.7	0.0	152.40	-392.5	-864.3	1,696.8	1,673.2	23.63	71.796		
6,400.0	6,314.1	6,126.5	6,052.5	28.2	0.0	152.42	-399.9	-878.8	1,728.1	1,704.1	24.02	71.953		
6,500.0	6,412.3	6,221.4	6,146.1	28.7	0.0	152.44	-407.4	-893.2	1,759.4	1,735.0	24.40	72.104		
6,600.0	6,510.6	6,316.4	6,239.6	29.1	0.0	152.45	-414.9	-907.7	1,790.7	1,766.0	24.79	72.249		
6,700.0	6,608.9	6,411.4	6,333.2	29.6	0.0	152.47	-422.3	-922.2	1,822.0	1,796.9	25.17	72.389		
6,800.0	6,707.4	6,506.0	6,426.4	30.1	0.0	-151.36	-429.8	-936.6	1,853.2	1,827.7	25.56	72.512		
6,900.0	6,804.5	6,597.9	6,516.9	30.5	0.0	-118.15	-437.0	-950.6	1,883.8	1,857.6	26.12	72.120		
7,000.0	6,897.3	6,684.3	6,602.1	30.9	0.0	-104.58	-443.8	-963.7	1,913.3	1,886.8	26.55	72.055		
7,100.0	6,982.9	6,762.7	6,679.3	31.3	0.0	-97.55	-450.0	-975.7	1,942.0	1,915.2	26.84	72.368		
7,200.0	7,058.8	6,830.6	6,746.2	31.5	0.0	-93.11	-455.3	-986.0	1,970.1	1,943.1	27.04	72.861		
7,300.0	7,122.6	6,885.9	6,800.7	31.7	0.0	-89.83	-459.7	-994.5	1,997.9	1,970.7	27.20	73.451		
7,400.0	7,172.5	6,927.1	6,841.3	31.7	0.0	-86.99	-462.9	-1,000.7	2,025.7	1,998.4	27.34	74.098		
7,500.0	7,206.8	6,952.8	6,866.6	31.7	0.0	-84.26	-464.9	-1,004.6	2,053.6	2,026.2	27.46	74.774		
7,600.0	7,224.5	6,962.2	6,875.9	31.7	0.0	-81.46	-465.6	-1,006.1	2,081.3	2,053.8	27.59	75.451		
7,700.0	7,227.0	7,952.5	7,492.0	31.6	0.0	-97.25	143.9	-1,106.8	2,100.3	2,071.3	28.98	72.477		
7,800.0	7,227.0	8,052.5	7,492.0	31.7	0.0	-97.25	243.9	-1,107.6	2,100.3	2,070.9	29.36	71.532		
7,900.0	7,227.0	8,152.5	7,492.0	31.8	0.0	-97.25	343.9	-1,108.4	2,100.3	2,070.4	29.85	70.369		
8,000.0	7,227.0	8,252.5	7,492.0	32.0	0.0	-97.25	443.9	-1,109.2	2,100.3	2,069.9	30.43	69.031		
8,100.0	7,227.0	8,352.5	7,492.0	32.5	0.0	-97.25	543.9	-1,110.1	2,100.3	2,069.2	31.09	67.551		
8,200.0	7,227.0	8,452.5	7,492.0	33.0	0.0	-97.25	643.9	-1,110.9	2,100.3	2,068.4	31.84	65.960		
8,300.0	7,227.0	8,552.5	7,492.0	33.7	0.0	-97.25	743.9	-1,111.7	2,100.3	2,067.6	32.67	64.291		
8,400.0	7,227.0	8,652.5	7,492.0	34.6	0.0	-97.25	843.9	-1,112.6	2,100.3	2,066.7	33.57	62.570		
8,500.0	7,227.0	8,752.5	7,492.0	35.5	0.0	-97.25	943.9	-1,113.4	2,100.3	2,065.8	34.53	60.823		
8,600.0	7,227.0	8,852.5	7,492.0	36.5	0.0	-97.25	1,043.9	-1,114.2	2,100.3	2,064.7	35.56	59.071		
8,700.0	7,227.0	8,952.5	7,492.0	37.5	0.0	-97.25	1,143.9	-1,115.0	2,100.3	2,063.6	36.64	57.329		
8,800.0	7,227.0	9,052.5	7,492.0	38.6	0.0	-97.25	1,243.9	-1,115.9	2,100.3	2,062.5	37.77	55.613		
8,900.0	7,227.0	9,152.5	7,492.0	39.8	0.0	-97.25	1,343.9	-1,116.7	2,100.3	2,061.3	38.94	53.932		
9,000.0	7,227.0	9,252.5	7,492.0	41.0	0.0	-97.25	1,443.9	-1,117.5	2,100.3	2,060.1	40.16	52.295		
9,100.0	7,227.0	9,352.5	7,492.0	42.2	0.0	-97.25	1,543.9	-1,118.3	2,100.3	2,058.9	41.42	50.708		
9,200.0	7,227.0	9,452.5	7,492.0	43.5	0.0	-97.25	1,643.9	-1,119.2	2,100.3	2,057.6	42.71	49.173		
9,300.0	7,227.0	9,552.5	7,492.0	44.8	0.0	-97.25	1,743.9	-1,120.0	2,100.3	2,056.2	44.04	47.694		
9,400.0	7,227.0	9,652.5	7,492.0	46.1	0.0	-97.25	1,843.9	-1,120.8	2,100.3	2,054.9	45.39	46.272		
9,500.0	7,227.0	9,752.5	7,492.0	47.5	0.0	-97.25	1,943.9	-1,121.7	2,100.3	2,053.5	46.77	44.906		
9,600.0	7,227.0	9,852.5	7,492.0	48.9	0.0	-97.25	2,043.9	-1,122.5	2,100.3	2,052.1	48.18	43.597		
9,700.0	7,227.0	9,952.5	7,492.0	50.3	0.0	-97.25	2,143.9	-1,123.3	2,100.3	2,050.7	49.60	42.343		
9,800.0	7,227.0	10,052.5	7,492.0	51.7	0.0	-97.25	2,243.9	-1,124.1	2,100.3	2,049.2	51.05	41.142		
9,900.0	7,227.0	10,152.5	7,492.0	53.2	0.0	-97.25	2,343.9	-1,125.0	2,100.3	2,047.8	52.52	39.993		
10,000.0	7,227.0	10,252.5	7,492.0	54.7	0.0	-97.25	2,443.9	-1,125.8	2,100.3	2,046.3	54.00	38.895		
10,100.0	7,227.0	10,352.5	7,492.0	56.2	0.0	-97.25	2,543.9	-1,126.6	2,100.3	2,044.8	55.50	37.844		
10,200.0	7,227.0	10,452.5	7,492.0	57.7	0.0	-97.25	2,643.9	-1,127.4	2,100.3	2,043.3	57.01	36.839		
10,300.0	7,227.0	10,552.5	7,492.0	59.2	0.0	-97.25	2,743.9	-1,128.3	2,100.3	2,041.8	58.54	35.878		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	10,652.5	7,492.0	60.7	0.0	-97.25	2,843.8	-1,129.1	2,100.3	2,040.2	60.08	34.959		
10,500.0	7,227.0	10,752.5	7,492.0	62.3	0.0	-97.25	2,943.8	-1,129.9	2,100.3	2,038.7	61.63	34.079		
10,600.0	7,227.0	10,852.5	7,492.0	63.8	0.0	-97.25	3,043.8	-1,130.8	2,100.3	2,037.1	63.19	33.237		
10,700.0	7,227.0	10,952.5	7,492.0	65.4	0.0	-97.25	3,143.8	-1,131.6	2,100.3	2,035.5	64.76	32.430		
10,800.0	7,227.0	11,052.5	7,492.0	67.0	0.0	-97.25	3,243.8	-1,132.4	2,100.3	2,033.9	66.34	31.658		
10,900.0	7,227.0	11,152.5	7,492.0	68.6	0.0	-97.25	3,343.8	-1,133.2	2,100.3	2,032.4	67.93	30.917		
11,000.0	7,227.0	11,252.5	7,492.0	70.2	0.0	-97.25	3,443.8	-1,134.1	2,100.3	2,030.8	69.53	30.207		
11,100.0	7,227.0	11,352.5	7,492.0	71.8	0.0	-97.25	3,543.8	-1,134.9	2,100.3	2,029.2	71.13	29.525		
11,200.0	7,227.0	11,452.5	7,492.0	73.4	0.0	-97.25	3,643.8	-1,135.7	2,100.3	2,027.5	72.75	28.871		
11,300.0	7,227.0	11,552.5	7,492.0	75.0	0.0	-97.25	3,743.8	-1,136.5	2,100.3	2,025.9	74.36	28.243		
11,400.0	7,227.0	11,652.5	7,492.0	76.6	0.0	-97.25	3,843.8	-1,137.4	2,100.3	2,024.3	75.99	27.640		
11,500.0	7,227.0	11,752.5	7,492.0	78.2	0.0	-97.25	3,943.8	-1,138.2	2,100.3	2,022.7	77.62	27.059		
11,600.0	7,227.0	11,852.5	7,492.0	79.9	0.0	-97.25	4,043.8	-1,139.0	2,100.3	2,021.0	79.25	26.501		
11,700.0	7,227.0	11,952.5	7,492.0	81.5	0.0	-97.25	4,143.8	-1,139.9	2,100.3	2,019.4	80.89	25.964		
11,800.0	7,227.0	12,052.5	7,492.0	83.2	0.0	-97.25	4,243.8	-1,140.7	2,100.3	2,017.8	82.54	25.446		
11,900.0	7,227.0	12,152.5	7,492.0	84.8	0.0	-97.25	4,343.8	-1,141.5	2,100.3	2,016.1	84.19	24.948		
12,000.0	7,227.0	12,252.5	7,492.0	86.5	0.0	-97.25	4,443.8	-1,142.3	2,100.3	2,014.5	85.84	24.467		
12,100.0	7,227.0	12,352.5	7,492.0	88.1	0.0	-97.25	4,543.8	-1,143.2	2,100.3	2,012.8	87.50	24.004		
12,200.0	7,227.0	12,452.5	7,492.0	89.8	0.0	-97.25	4,643.8	-1,144.0	2,100.3	2,011.1	89.16	23.557		
12,300.0	7,227.0	12,552.5	7,492.0	91.4	0.0	-97.25	4,743.8	-1,144.8	2,100.3	2,009.5	90.82	23.125		
12,400.0	7,227.0	12,652.5	7,492.0	93.1	0.0	-97.25	4,843.8	-1,145.6	2,100.3	2,007.8	92.49	22.708		
12,500.0	7,227.0	12,752.5	7,492.0	94.8	0.0	-97.25	4,943.8	-1,146.5	2,100.3	2,006.1	94.16	22.305		
12,600.0	7,227.0	12,852.5	7,492.0	96.5	0.0	-97.25	5,043.8	-1,147.3	2,100.3	2,004.5	95.84	21.915		
12,700.0	7,227.0	12,952.5	7,492.0	98.1	0.0	-97.25	5,143.8	-1,148.1	2,100.3	2,002.8	97.51	21.539		
12,800.0	7,227.0	13,052.5	7,492.0	99.8	0.0	-97.25	5,243.8	-1,149.0	2,100.3	2,001.1	99.19	21.174		
12,900.0	7,227.0	13,152.5	7,492.0	101.5	0.0	-97.25	5,343.8	-1,149.8	2,100.3	1,999.4	100.88	20.821		
13,000.0	7,227.0	13,252.5	7,492.0	103.2	0.0	-97.25	5,443.8	-1,150.6	2,100.3	1,997.7	102.56	20.479		
13,100.0	7,227.0	13,352.5	7,492.0	104.9	0.0	-97.25	5,543.8	-1,151.4	2,100.3	1,996.1	104.25	20.147		
13,200.0	7,227.0	13,452.5	7,492.0	106.6	0.0	-97.25	5,643.8	-1,152.3	2,100.3	1,994.4	105.94	19.826		
13,300.0	7,227.0	13,552.5	7,492.0	108.3	0.0	-97.25	5,743.7	-1,153.1	2,100.3	1,992.7	107.63	19.515		
13,400.0	7,227.0	13,652.5	7,492.0	110.0	0.0	-97.25	5,843.7	-1,153.9	2,100.3	1,991.0	109.32	19.213		
13,500.0	7,227.0	13,752.5	7,492.0	111.7	0.0	-97.25	5,943.7	-1,154.7	2,100.3	1,989.3	111.01	18.919		
13,600.0	7,227.0	13,852.5	7,492.0	113.4	0.0	-97.25	6,043.7	-1,155.6	2,100.3	1,987.6	112.71	18.634		
13,700.0	7,227.0	13,952.5	7,492.0	115.1	0.0	-97.25	6,143.7	-1,156.4	2,100.3	1,985.9	114.41	18.358		
13,800.0	7,227.0	14,052.5	7,492.0	116.8	0.0	-97.25	6,243.7	-1,157.2	2,100.3	1,984.2	116.11	18.089		
13,900.0	7,227.0	14,152.5	7,492.0	118.5	0.0	-97.25	6,343.7	-1,158.0	2,100.3	1,982.5	117.81	17.828		
14,000.0	7,227.0	14,252.5	7,492.0	120.2	0.0	-97.25	6,443.7	-1,158.9	2,100.3	1,980.8	119.52	17.574		
14,100.0	7,227.0	14,352.5	7,492.0	121.9	0.0	-97.25	6,543.7	-1,159.7	2,100.3	1,979.1	121.22	17.326		
14,200.0	7,227.0	14,452.5	7,492.0	123.6	0.0	-97.25	6,643.7	-1,160.5	2,100.3	1,977.4	122.93	17.086		
14,300.0	7,227.0	14,552.5	7,492.0	125.3	0.0	-97.25	6,743.7	-1,161.4	2,100.3	1,975.7	124.63	16.852		
14,400.0	7,227.0	14,652.5	7,492.0	127.1	0.0	-97.25	6,843.7	-1,162.2	2,100.3	1,974.0	126.34	16.624		
14,500.0	7,227.0	14,752.5	7,492.0	128.8	0.0	-97.25	6,943.7	-1,163.0	2,100.3	1,972.3	128.05	16.402		
14,600.0	7,227.0	14,852.5	7,492.0	130.5	0.0	-97.25	7,043.7	-1,163.8	2,100.3	1,970.5	129.76	16.186		
14,700.0	7,227.0	14,952.5	7,492.0	132.2	0.0	-97.25	7,143.7	-1,164.7	2,100.3	1,968.8	131.48	15.975		
14,800.0	7,227.0	15,052.5	7,492.0	133.9	0.0	-97.25	7,243.7	-1,165.5	2,100.3	1,967.1	133.19	15.769		
14,900.0	7,227.0	15,152.5	7,492.0	135.7	0.0	-97.25	7,343.7	-1,166.3	2,100.3	1,965.4	134.90	15.569		
15,000.0	7,227.0	15,252.5	7,492.0	137.4	0.0	-97.25	7,443.7	-1,167.1	2,100.3	1,963.7	136.62	15.373		
15,100.0	7,227.0	15,352.5	7,492.0	139.1	0.0	-97.25	7,543.7	-1,168.0	2,100.3	1,962.0	138.34	15.183		
15,200.0	7,227.0	15,452.5	7,492.0	140.8	0.0	-97.25	7,643.7	-1,168.8	2,100.3	1,960.3	140.05	14.996		
15,300.0	7,227.0	15,552.5	7,492.0	142.5	0.0	-97.25	7,743.7	-1,169.6	2,100.3	1,958.5	141.77	14.815		
15,400.0	7,227.0	15,652.5	7,492.0	144.3	0.0	-97.25	7,843.7	-1,170.5	2,100.3	1,956.8	143.49	14.637		
15,500.0	7,227.0	15,752.5	7,492.0	146.0	0.0	-97.25	7,943.7	-1,171.3	2,100.3	1,955.1	145.21	14.464		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	15,852.5	7,492.0	147.7	0.0	-97.25	8,043.7	-1,172.1	2,100.3	1,953.4	146.93	14.294			
15,700.0	7,227.0	15,952.5	7,492.0	149.5	0.0	-97.25	8,143.7	-1,172.9	2,100.3	1,951.7	148.65	14.129			
15,800.0	7,227.0	16,052.5	7,492.0	151.2	0.0	-97.25	8,243.7	-1,173.8	2,100.3	1,949.9	150.38	13.967			
15,900.0	7,227.0	16,152.5	7,492.0	152.9	0.0	-97.25	8,343.7	-1,174.6	2,100.3	1,948.2	152.10	13.809			
16,000.0	7,227.0	16,252.5	7,492.0	154.7	0.0	-97.25	8,443.7	-1,175.4	2,100.3	1,946.5	153.82	13.654			
16,100.0	7,227.0	16,352.5	7,492.0	156.4	0.0	-97.25	8,543.7	-1,176.2	2,100.3	1,944.8	155.55	13.503			
16,200.0	7,227.0	16,452.5	7,492.0	158.1	0.0	-97.25	8,643.6	-1,177.1	2,100.3	1,943.0	157.27	13.355			
16,300.0	7,227.0	16,552.5	7,492.0	159.9	0.0	-97.25	8,743.6	-1,177.9	2,100.3	1,941.3	159.00	13.210			
16,400.0	7,227.0	16,652.5	7,492.0	161.6	0.0	-97.25	8,843.6	-1,178.7	2,100.3	1,939.6	160.73	13.068			
16,500.0	7,227.0	16,752.5	7,492.0	163.3	0.0	-97.25	8,943.6	-1,179.6	2,100.3	1,937.9	162.45	12.929			
16,600.0	7,227.0	16,852.5	7,492.0	165.1	0.0	-97.25	9,043.6	-1,180.4	2,100.3	1,936.1	164.18	12.793			
16,700.0	7,227.0	16,952.5	7,492.0	166.8	0.0	-97.25	9,143.6	-1,181.2	2,100.3	1,934.4	165.91	12.659			
16,800.0	7,227.0	17,052.5	7,492.0	168.5	0.0	-97.25	9,243.6	-1,182.0	2,100.3	1,932.7	167.64	12.529			
16,900.0	7,227.0	17,152.5	7,492.0	170.3	0.0	-97.25	9,343.6	-1,182.9	2,100.3	1,931.0	169.37	12.401			
17,000.0	7,227.0	17,252.5	7,492.0	172.0	0.0	-97.25	9,443.6	-1,183.7	2,100.3	1,929.2	171.10	12.276			
17,100.0	7,227.0	17,352.5	7,492.0	173.7	0.0	-97.25	9,543.6	-1,184.5	2,100.3	1,927.5	172.83	12.153			
17,200.0	7,227.0	17,452.5	7,492.0	175.5	0.0	-97.25	9,643.6	-1,185.3	2,100.3	1,925.8	174.56	12.032			
17,300.0	7,227.0	17,552.5	7,492.0	177.2	0.0	-97.25	9,743.6	-1,186.2	2,100.3	1,924.0	176.29	11.914			
17,400.0	7,227.0	17,652.5	7,492.0	179.0	0.0	-97.25	9,843.6	-1,187.0	2,100.3	1,922.3	178.02	11.798			
17,400.0	7,227.0	17,652.5	7,492.0	179.0	0.0	-97.25	9,843.6	-1,187.0	2,100.3	1,922.3	178.02	11.798			
17,451.3	7,227.0	17,686.9	7,492.0	179.9	0.0	-97.25	9,878.1	-1,187.3	2,100.4	1,921.6	178.81	11.746 SF			

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

Offset Design S19-T1S-R65W - CONNER 19-18-1NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.29	-0.6	-120.0	120.0					
100.0	100.0	100.0	100.0	0.4	0.4	-90.29	-0.6	-120.0	120.0	119.5	0.55	216.798		
200.0	200.0	200.0	200.0	1.0	1.0	-90.29	-0.6	-120.0	120.0	118.4	1.60	75.237		
300.0	300.0	300.0	300.0	1.5	1.5	-90.29	-0.6	-120.0	120.0	117.6	2.45	49.018		
400.0	400.0	400.0	400.0	1.9	1.9	-90.29	-0.6	-120.0	120.0	116.8	3.24	37.086		
500.0	500.0	500.0	500.0	2.3	2.3	-90.29	-0.6	-120.0	120.0	116.0	4.00	30.023		
600.0	600.0	600.0	600.0	2.7	2.7	-90.29	-0.6	-120.0	120.0	115.3	4.74	25.294		
700.0	700.0	700.0	700.0	3.1	3.1	-90.29	-0.6	-120.0	120.0	114.5	5.48	21.884	CC, ES	
800.0	800.0	796.3	796.2	3.5	3.4	-90.59	-1.2	-121.5	121.5	115.3	6.27	19.400		
900.0	900.0	892.3	892.2	3.9	4.3	-91.46	-3.2	-125.9	126.2	118.6	7.61	16.576		
1,000.0	1,000.0	987.9	987.4	4.2	5.1	-92.76	-6.4	-133.2	134.0	125.2	8.83	15.180		
1,100.0	1,100.0	1,082.9	1,081.8	4.6	5.8	-94.35	-10.9	-143.4	145.0	135.0	9.93	14.592		
1,200.0	1,200.0	1,176.9	1,174.7	4.9	6.4	146.66	-16.6	-156.2	160.6	149.5	11.04	14.552	SF	
1,300.0	1,299.8	1,269.2	1,265.4	5.3	6.9	145.61	-23.3	-171.6	182.2	170.2	12.03	15.149		
1,400.0	1,399.5	1,365.3	1,359.7	6.0	7.1	145.05	-31.0	-189.1	208.3	195.5	12.77	16.310		
1,500.0	1,498.7	1,461.1	1,453.5	6.7	7.4	145.01	-38.7	-206.6	237.2	223.6	13.50	17.561		
1,600.0	1,597.5	1,555.9	1,546.4	7.4	7.6	145.32	-46.4	-223.9	268.8	254.5	14.25	18.864		
1,700.0	1,695.8	1,649.9	1,638.5	7.7	7.9	146.03	-53.9	-241.1	302.6	287.7	14.85	20.381		
1,800.0	1,794.0	1,743.9	1,730.6	8.0	8.2	146.73	-61.5	-258.3	336.6	321.1	15.44	21.797		
1,900.0	1,892.3	1,837.8	1,822.7	8.3	8.5	147.31	-69.0	-275.4	370.6	354.6	16.05	23.089		
2,000.0	1,990.6	1,931.8	1,914.8	8.6	8.8	147.78	-76.6	-292.6	404.7	388.0	16.67	24.270		
2,100.0	2,088.8	2,025.8	2,006.8	8.9	9.1	148.19	-84.2	-309.7	438.8	421.5	17.31	25.349		
2,200.0	2,187.1	2,119.7	2,098.9	9.2	9.4	148.53	-91.7	-326.9	472.9	455.0	17.96	26.338		
2,300.0	2,285.3	2,213.7	2,191.0	9.6	9.8	148.83	-99.3	-344.0	507.0	488.4	18.61	27.245		
2,400.0	2,383.6	2,307.7	2,283.1	9.9	10.1	149.09	-106.8	-361.2	541.2	521.9	19.27	28.079		
2,500.0	2,481.9	2,401.6	2,375.1	10.3	10.5	149.32	-114.4	-378.4	575.3	555.4	19.94	28.846		
2,600.0	2,580.1	2,495.6	2,467.2	10.7	10.9	149.52	-121.9	-395.5	609.5	588.8	20.62	29.553		
2,700.0	2,678.4	2,589.6	2,559.3	11.1	11.3	149.71	-129.5	-412.7	643.6	622.3	21.31	30.207		
2,800.0	2,776.6	2,683.5	2,651.4	11.5	11.7	149.87	-137.1	-429.8	677.8	655.8	22.00	30.812		
2,900.0	2,874.9	2,777.5	2,743.4	11.9	12.1	150.02	-144.6	-447.0	712.0	689.3	22.69	31.373		
3,000.0	2,973.2	2,871.5	2,835.5	12.3	12.5	150.15	-152.2	-464.2	746.1	722.7	23.39	31.894		
3,100.0	3,071.4	2,965.4	2,927.6	12.8	12.9	150.28	-159.7	-481.3	780.3	756.2	24.10	32.380		
3,200.0	3,169.7	3,059.4	3,019.7	13.2	13.4	150.39	-167.3	-498.5	814.5	789.7	24.81	32.832		
3,300.0	3,268.0	3,153.4	3,111.8	13.6	13.8	150.49	-174.8	-515.6	848.7	823.1	25.52	33.255		
3,400.0	3,366.2	3,247.3	3,203.8	14.1	14.3	150.59	-182.4	-532.8	882.8	856.6	26.24	33.650		
3,500.0	3,464.5	3,341.3	3,295.9	14.6	14.7	150.68	-190.0	-549.9	917.0	890.1	26.96	34.021		
3,600.0	3,562.7	3,435.3	3,388.0	15.0	15.2	150.76	-197.5	-567.1	951.2	923.5	27.68	34.368		
3,700.0	3,661.0	3,529.2	3,480.1	15.5	15.6	150.84	-205.1	-584.3	985.4	957.0	28.40	34.695		
3,800.0	3,759.3	3,623.2	3,572.1	15.9	16.1	150.91	-212.6	-601.4	1,019.6	990.5	29.13	35.003		
3,900.0	3,857.5	3,717.2	3,664.2	16.4	16.5	150.97	-220.2	-618.6	1,053.8	1,023.9	29.86	35.292		
4,000.0	3,955.8	3,811.1	3,756.3	16.9	17.0	151.04	-227.7	-635.7	1,088.0	1,057.4	30.59	35.566		
4,100.0	4,054.1	3,905.1	3,848.4	17.3	17.4	151.09	-235.3	-652.9	1,122.2	1,090.9	31.32	35.824		
4,200.0	4,152.3	3,999.1	3,940.4	17.8	17.9	151.15	-242.9	-670.1	1,156.4	1,124.3	32.06	36.069		
4,300.0	4,250.6	4,093.0	4,032.5	18.2	18.4	151.20	-250.4	-687.2	1,190.6	1,157.8	32.80	36.300		
4,400.0	4,348.8	4,187.0	4,124.6	18.7	18.8	151.25	-258.0	-704.4	1,224.8	1,191.2	33.54	36.520		
4,500.0	4,447.1	4,281.0	4,216.7	19.2	19.3	151.30	-265.5	-721.5	1,259.0	1,224.7	34.28	36.728		
4,600.0	4,545.4	4,374.9	4,308.7	19.7	19.7	151.34	-273.1	-738.7	1,293.2	1,258.1	35.02	36.926		
4,700.0	4,643.6	4,468.9	4,400.8	20.1	20.2	151.38	-280.6	-755.8	1,327.4	1,291.6	35.76	37.115		
4,800.0	4,741.9	4,562.9	4,492.9	20.6	20.7	151.42	-288.2	-773.0	1,361.6	1,325.0	36.51	37.294		
4,900.0	4,840.2	4,656.8	4,585.0	21.1	21.1	151.46	-295.7	-790.2	1,395.8	1,358.5	37.25	37.465		
5,000.0	4,938.4	4,750.8	4,677.1	21.5	21.6	151.50	-303.3	-807.3	1,430.0	1,392.0	38.00	37.628		
5,100.0	5,036.7	4,844.8	4,769.1	22.0	22.1	151.53	-310.9	-824.5	1,464.2	1,425.4	38.75	37.784		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-1NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	4,938.7	4,861.2	22.5	22.5	151.56	-318.4	-841.6	1,498.4	1,458.9	39.50	37.933		
5,300.0	5,233.2	5,032.7	4,953.3	23.0	23.0	151.59	-326.0	-858.8	1,532.6	1,492.3	40.25	38.075		
5,400.0	5,331.5	5,126.7	5,045.4	23.4	23.5	151.62	-333.5	-876.0	1,566.8	1,525.8	41.00	38.211		
5,500.0	5,429.7	5,220.6	5,137.4	23.9	23.9	151.65	-341.1	-893.1	1,601.0	1,559.2	41.76	38.342		
5,600.0	5,528.0	5,314.6	5,229.5	24.4	24.4	151.68	-348.6	-910.3	1,635.2	1,592.7	42.51	38.467		
5,700.0	5,626.2	5,408.6	5,321.6	24.9	24.9	151.71	-356.2	-927.4	1,669.4	1,626.1	43.26	38.587		
5,800.0	5,724.5	5,502.5	5,413.7	25.3	25.3	151.73	-363.8	-944.6	1,703.6	1,659.6	44.02	38.702		
5,900.0	5,822.8	5,596.5	5,505.7	25.8	25.8	151.75	-371.3	-961.7	1,737.8	1,693.0	44.77	38.813		
6,000.0	5,921.0	5,690.5	5,597.8	26.3	26.3	151.78	-378.9	-978.9	1,772.0	1,726.5	45.53	38.919		
6,100.0	6,019.3	5,784.4	5,689.9	26.8	26.7	151.80	-386.4	-996.1	1,806.2	1,759.9	46.29	39.021		
6,200.0	6,117.6	5,878.4	5,782.0	27.2	27.2	151.82	-394.0	-1,013.2	1,840.4	1,793.3	47.05	39.119		
6,300.0	6,215.8	5,972.4	5,874.1	27.7	27.7	151.84	-401.5	-1,030.4	1,874.6	1,826.8	47.80	39.214		
6,400.0	6,314.1	6,066.3	5,966.1	28.2	28.1	151.86	-409.1	-1,047.5	1,908.8	1,860.2	48.56	39.305		
6,500.0	6,412.3	6,160.3	6,058.2	28.7	28.6	151.88	-416.7	-1,064.7	1,943.0	1,893.7	49.32	39.393		
6,600.0	6,510.6	6,254.3	6,150.3	29.1	29.1	151.90	-424.2	-1,081.8	1,977.2	1,927.1	50.08	39.478		
6,700.0	6,608.9	6,348.2	6,242.4	29.6	29.5	151.92	-431.8	-1,099.0	2,011.4	1,960.6	50.84	39.560		
6,800.0	6,707.4	6,441.8	6,334.0	30.1	30.0	-151.55	-439.3	-1,116.1	2,045.6	1,994.0	51.59	39.653		
6,900.0	6,804.5	6,532.7	6,423.1	30.5	30.4	-117.93	-446.6	-1,132.7	2,079.1	2,026.6	52.45	39.642		
7,000.0	6,897.3	6,618.1	6,506.8	30.9	30.9	-103.92	-453.5	-1,148.3	2,111.6	2,058.4	53.12	39.754		
7,100.0	6,982.9	6,695.5	6,582.7	31.3	31.2	-96.47	-459.7	-1,162.4	2,142.9	2,089.3	53.57	40.003		
7,200.0	7,058.8	6,762.5	6,648.3	31.5	31.6	-91.67	-465.1	-1,174.7	2,173.1	2,119.2	53.87	40.339		
7,300.0	7,122.6	6,840.2	6,724.6	31.7	32.0	-88.60	-468.1	-1,188.9	2,202.2	2,147.9	54.23	40.609		

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	-90.29	-0.4	-75.0	75.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.29	-0.4	-75.0	75.0	74.7	0.28	270.788		
200.0	200.0	200.0	200.0	1.0	0.0	-90.29	-0.4	-75.0	75.0	74.2	0.80	94.018		
300.0	300.0	300.0	300.0	1.5	0.0	-90.29	-0.4	-75.0	75.0	73.8	1.22	61.260		
400.0	400.0	400.0	400.0	1.9	0.0	-90.29	-0.4	-75.0	75.0	73.4	1.62	46.350		
500.0	500.0	500.0	500.0	2.3	0.0	-90.29	-0.4	-75.0	75.0	73.0	2.00	37.524		
600.0	600.0	600.0	600.0	2.7	0.0	-90.29	-0.4	-75.0	75.0	72.6	2.37	31.613		
700.0	700.0	700.0	700.0	3.1	0.0	-90.29	-0.4	-75.0	75.0	72.3	2.74	27.352		
800.0	800.0	800.0	800.0	3.5	0.0	-90.29	-0.4	-75.0	75.0	71.9	3.11	24.123		
900.0	900.0	900.0	900.0	3.9	0.0	-90.29	-0.4	-75.0	75.0	71.5	3.47	21.587		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	-90.29	-0.4	-75.0	75.0	71.2	3.84	19.540 CC, ES		
1,100.0	1,100.0	1,098.4	1,098.4	4.6	0.0	-91.31	-1.7	-76.0	76.0	71.8	4.22	18.034		
1,200.0	1,200.0	1,196.6	1,196.4	4.9	0.0	148.93	-5.8	-79.0	80.8	76.1	4.70	17.181		
1,300.0	1,299.8	1,294.5	1,294.0	5.3	0.0	146.43	-12.5	-83.9	90.7	85.5	5.27	17.233		
1,400.0	1,399.5	1,393.5	1,392.5	6.0	0.0	144.99	-20.3	-89.5	104.5	98.7	5.77	18.117		
1,500.0	1,498.7	1,492.1	1,490.7	6.7	0.0	144.80	-28.0	-95.1	121.1	114.8	6.25	19.376		
1,600.0	1,597.5	1,590.2	1,588.3	7.4	0.0	145.41	-35.6	-100.7	140.5	133.8	6.73	20.865		
1,700.0	1,695.8	1,687.7	1,685.4	7.7	0.0	146.50	-43.2	-106.3	162.2	155.1	7.06	22.959		
1,800.0	1,794.0	1,785.3	1,782.5	8.0	0.0	147.45	-50.8	-111.8	184.1	176.7	7.38	24.937		
1,900.0	1,892.3	1,882.8	1,879.6	8.3	0.0	148.19	-58.4	-117.4	206.0	198.3	7.70	26.740		
2,000.0	1,990.6	1,980.3	1,976.6	8.6	0.0	148.79	-66.0	-122.9	228.0	219.9	8.03	28.387		
2,100.0	2,088.8	2,077.9	2,073.7	8.9	0.0	149.28	-73.6	-128.5	250.0	241.6	8.36	29.891		
2,200.0	2,187.1	2,175.4	2,170.8	9.2	0.0	149.69	-81.2	-134.0	272.0	263.3	8.70	31.266		
2,300.0	2,285.3	2,272.9	2,267.9	9.6	0.0	150.05	-88.9	-139.6	294.0	284.9	9.04	32.526		
2,400.0	2,383.6	2,370.5	2,364.9	9.9	0.0	150.35	-96.5	-145.1	316.0	306.6	9.38	33.682		
2,500.0	2,481.9	2,468.0	2,462.0	10.3	0.0	150.61	-104.1	-150.7	338.0	328.3	9.73	34.745		
2,600.0	2,580.1	2,565.5	2,559.1	10.7	0.0	150.84	-111.7	-156.2	360.1	350.0	10.08	35.723		
2,700.0	2,678.4	2,663.1	2,656.2	11.1	0.0	151.05	-119.3	-161.8	382.1	371.7	10.43	36.625		
2,800.0	2,776.6	2,760.6	2,753.3	11.5	0.0	151.23	-126.9	-167.3	404.1	393.3	10.79	37.459		
2,900.0	2,874.9	2,858.1	2,850.3	11.9	0.0	151.39	-134.5	-172.9	426.2	415.0	11.15	38.231		
3,000.0	2,973.2	2,955.7	2,947.4	12.3	0.0	151.54	-142.1	-178.4	448.2	436.7	11.51	38.948		
3,100.0	3,071.4	3,053.2	3,044.5	12.8	0.0	151.67	-149.7	-184.0	470.3	458.4	11.87	39.614		
3,200.0	3,169.7	3,150.7	3,141.6	13.2	0.0	151.80	-157.3	-189.5	492.3	480.1	12.24	40.234		
3,300.0	3,268.0	3,248.3	3,238.6	13.6	0.0	151.91	-164.9	-195.1	514.4	501.8	12.60	40.812		
3,400.0	3,366.2	3,345.8	3,335.7	14.1	0.0	152.01	-172.5	-200.6	536.4	523.5	12.97	41.353		
3,500.0	3,464.5	3,443.3	3,432.8	14.6	0.0	152.10	-180.1	-206.2	558.5	545.2	13.34	41.859		
3,600.0	3,562.7	3,540.9	3,529.9	15.0	0.0	152.19	-187.7	-211.7	580.6	566.8	13.71	42.333		
3,700.0	3,661.0	3,638.4	3,626.9	15.5	0.0	152.27	-195.3	-217.3	602.6	588.5	14.09	42.778		
3,800.0	3,759.3	3,735.9	3,724.0	15.9	0.0	152.35	-202.9	-222.8	624.7	610.2	14.46	43.197		
3,900.0	3,857.5	3,833.5	3,821.1	16.4	0.0	152.42	-210.5	-228.4	646.7	631.9	14.84	43.591		
4,000.0	3,955.8	3,931.0	3,918.2	16.9	0.0	152.48	-218.2	-233.9	668.8	653.6	15.21	43.962		
4,100.0	4,054.1	4,028.5	4,015.3	17.3	0.0	152.54	-225.8	-239.5	690.9	675.3	15.59	44.313		
4,200.0	4,152.3	4,126.1	4,112.3	17.8	0.0	152.60	-233.4	-245.0	712.9	697.0	15.97	44.645		
4,300.0	4,250.6	4,223.6	4,209.4	18.2	0.0	152.65	-241.0	-250.6	735.0	718.7	16.35	44.959		
4,400.0	4,348.8	4,321.1	4,306.5	18.7	0.0	152.70	-248.6	-256.1	757.1	740.3	16.73	45.256		
4,500.0	4,447.1	4,418.7	4,403.6	19.2	0.0	152.75	-256.2	-261.7	779.1	762.0	17.11	45.539		
4,600.0	4,545.4	4,516.2	4,500.6	19.7	0.0	152.80	-263.8	-267.2	801.2	783.7	17.49	45.807		
4,700.0	4,643.6	4,613.7	4,597.7	20.1	0.0	152.84	-271.4	-272.8	823.3	805.4	17.87	46.062		
4,800.0	4,741.9	4,711.3	4,694.8	20.6	0.0	152.88	-279.0	-278.3	845.3	827.1	18.26	46.304		
4,900.0	4,840.2	4,808.8	4,791.9	21.1	0.0	152.92	-286.6	-283.9	867.4	848.8	18.64	46.535		
5,000.0	4,938.4	4,906.3	4,889.0	21.5	0.0	152.95	-294.2	-289.4	889.5	870.5	19.02	46.756		
5,100.0	5,036.7	5,003.9	4,986.0	22.0	0.0	152.99	-301.8	-295.0	911.5	892.1	19.41	46.966		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	5,134.9	5,101.4	5,083.1	22.5	0.0	153.02	-309.4	-300.5	933.6	913.8	19.79	47.167		
5,300.0	5,233.2	5,198.9	5,180.2	23.0	0.0	153.05	-317.0	-306.1	955.7	935.5	20.18	47.359		
5,400.0	5,331.5	5,296.5	5,277.3	23.4	0.0	153.08	-324.6	-311.6	977.8	957.2	20.57	47.543		
5,500.0	5,429.7	5,394.0	5,374.3	23.9	0.0	153.11	-332.2	-317.2	999.8	978.9	20.95	47.719		
5,600.0	5,528.0	5,491.5	5,471.4	24.4	0.0	153.14	-339.8	-322.7	1,021.9	1,000.6	21.34	47.887		
5,700.0	5,626.2	5,589.1	5,568.5	24.9	0.0	153.17	-347.5	-328.3	1,044.0	1,022.2	21.73	48.049		
5,800.0	5,724.5	5,686.6	5,665.6	25.3	0.0	153.19	-355.1	-333.8	1,066.0	1,043.9	22.12	48.204		
5,900.0	5,822.8	5,784.1	5,762.6	25.8	0.0	153.21	-362.7	-339.4	1,088.1	1,065.6	22.50	48.353		
6,000.0	5,921.0	5,881.7	5,859.7	26.3	0.0	153.24	-370.3	-344.9	1,110.2	1,087.3	22.89	48.497		
6,100.0	6,019.3	5,979.2	5,956.8	26.8	0.0	153.26	-377.9	-350.5	1,132.3	1,109.0	23.28	48.634		
6,200.0	6,117.6	6,076.7	6,053.9	27.2	0.0	153.28	-385.5	-356.0	1,154.3	1,130.7	23.67	48.767		
6,300.0	6,215.8	6,174.3	6,151.0	27.7	0.0	153.30	-393.1	-361.6	1,176.4	1,152.3	24.06	48.895		
6,400.0	6,314.1	6,271.8	6,248.0	28.2	0.0	153.32	-400.7	-367.1	1,198.5	1,174.0	24.45	49.017		
6,500.0	6,412.3	6,369.3	6,345.1	28.7	0.0	153.34	-408.3	-372.7	1,220.5	1,195.7	24.84	49.136		
6,600.0	6,510.6	6,466.9	6,442.2	29.1	0.0	153.36	-415.9	-378.2	1,242.6	1,217.4	25.23	49.250		
6,700.0	6,608.9	6,564.4	6,539.3	29.6	0.0	153.38	-423.5	-383.8	1,264.7	1,239.1	25.62	49.360		
6,800.0	6,707.4	6,661.5	6,636.0	30.1	0.0	-151.55	-431.1	-389.3	1,286.6	1,260.5	26.02	49.440		
6,900.0	6,804.5	6,756.0	6,730.0	30.5	0.0	-119.68	-438.5	-394.7	1,307.9	1,281.3	26.62	49.135		
7,000.0	6,897.3	6,844.9	6,818.4	30.9	0.0	-107.52	-445.4	-399.7	1,329.0	1,301.8	27.11	49.026		
7,100.0	6,982.9	6,925.4	6,898.6	31.3	0.0	-101.84	-451.7	-404.3	1,350.5	1,323.0	27.46	49.185		
7,200.0	7,058.8	6,995.3	6,968.2	31.5	0.0	-98.57	-457.1	-408.3	1,373.5	1,345.7	27.74	49.515		
7,300.0	7,122.6	7,052.3	7,024.9	31.7	0.0	-96.11	-461.6	-411.5	1,398.9	1,370.9	27.98	50.000		
7,400.0	7,172.5	7,125.1	7,097.4	31.7	0.0	-94.78	-464.9	-415.7	1,427.3	1,399.0	28.30	50.436		
7,500.0	7,206.8	7,259.6	7,230.3	31.7	0.0	-95.93	-447.4	-423.3	1,457.4	1,428.6	28.78	50.641		
7,600.0	7,224.5	7,602.8	7,518.5	31.7	0.0	-102.92	-271.5	-440.0	1,485.0	1,455.9	29.09	51.044		
7,700.0	7,227.0	8,069.2	7,662.0	31.6	0.0	-106.97	159.6	-448.7	1,490.3	1,461.2	29.07	51.273		
7,800.0	7,227.0	8,169.2	7,662.0	31.7	0.0	-106.98	259.6	-448.8	1,489.6	1,460.1	29.47	50.546		
7,900.0	7,227.0	8,269.2	7,662.0	31.8	0.0	-106.99	359.6	-448.9	1,488.9	1,458.9	29.97	49.679		
8,000.0	7,227.0	8,369.2	7,662.0	32.0	0.0	-107.00	459.6	-449.0	1,488.2	1,457.6	30.56	48.702		
8,100.0	7,227.0	8,469.2	7,662.0	32.5	0.0	-107.00	559.6	-449.1	1,487.5	1,456.3	31.23	47.637		
8,200.0	7,227.0	8,569.2	7,662.0	33.0	0.0	-107.01	659.6	-449.3	1,486.8	1,454.9	31.97	46.503		
8,300.0	7,227.0	8,669.2	7,662.0	33.7	0.0	-107.02	759.6	-449.4	1,486.2	1,453.4	32.79	45.323		
8,400.0	7,227.0	8,769.2	7,662.0	34.6	0.0	-107.03	859.6	-449.5	1,485.5	1,451.8	33.67	44.112		
8,500.0	7,227.0	8,869.2	7,662.0	35.5	0.0	-107.04	959.6	-449.6	1,484.8	1,450.2	34.62	42.888		
8,600.0	7,227.0	8,969.2	7,662.0	36.5	0.0	-107.04	1,059.6	-449.7	1,484.1	1,448.5	35.62	41.662		
8,700.0	7,227.0	9,069.1	7,662.0	37.5	0.0	-107.05	1,159.6	-449.8	1,483.4	1,446.7	36.68	40.447		
8,800.0	7,227.0	9,169.1	7,662.0	38.6	0.0	-107.06	1,259.6	-449.9	1,482.7	1,445.0	37.78	39.250		
8,900.0	7,227.0	9,269.1	7,662.0	39.8	0.0	-107.07	1,359.6	-450.0	1,482.0	1,443.1	38.92	38.078		
9,000.0	7,227.0	9,369.1	7,662.0	41.0	0.0	-107.08	1,459.6	-450.1	1,481.4	1,441.3	40.11	36.937		
9,100.0	7,227.0	9,469.1	7,662.0	42.2	0.0	-107.09	1,559.6	-450.3	1,480.7	1,439.4	41.33	35.829		
9,200.0	7,227.0	9,569.1	7,662.0	43.5	0.0	-107.09	1,659.5	-450.4	1,480.0	1,437.4	42.58	34.759		
9,300.0	7,227.0	9,669.1	7,662.0	44.8	0.0	-107.10	1,759.5	-450.5	1,479.3	1,435.5	43.86	33.726		
9,400.0	7,227.0	9,769.1	7,662.0	46.1	0.0	-107.11	1,859.5	-450.6	1,478.6	1,433.5	45.17	32.732		
9,500.0	7,227.0	9,869.1	7,662.0	47.5	0.0	-107.12	1,959.5	-450.7	1,477.9	1,431.4	46.51	31.776		
9,600.0	7,227.0	9,969.1	7,662.0	48.9	0.0	-107.13	2,059.5	-450.8	1,477.3	1,429.4	47.87	30.859		
9,700.0	7,227.0	10,069.1	7,662.0	50.3	0.0	-107.13	2,159.5	-450.9	1,476.6	1,427.3	49.25	29.980		
9,800.0	7,227.0	10,169.1	7,662.0	51.7	0.0	-107.14	2,259.5	-451.0	1,475.9	1,425.2	50.65	29.138		
9,900.0	7,227.0	10,269.1	7,662.0	53.2	0.0	-107.15	2,359.5	-451.1	1,475.2	1,423.1	52.07	28.331		
10,000.0	7,227.0	10,369.1	7,662.0	54.7	0.0	-107.16	2,459.5	-451.3	1,474.5	1,421.0	53.51	27.558		
10,100.0	7,227.0	10,469.1	7,662.0	56.2	0.0	-107.17	2,559.5	-451.4	1,473.8	1,418.9	54.96	26.819		
10,200.0	7,227.0	10,569.1	7,662.0	57.7	0.0	-107.17	2,659.5	-451.5	1,473.2	1,416.7	56.42	26.111		
10,300.0	7,227.0	10,669.1	7,662.0	59.2	0.0	-107.18	2,759.5	-451.6	1,472.5	1,414.6	57.90	25.433		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	10,769.1	7,662.0	60.7	0.0	-107.19	2,859.5	-451.7	1,471.8	1,412.4	59.39	24.784		
10,500.0	7,227.0	10,869.1	7,662.0	62.3	0.0	-107.20	2,959.5	-451.8	1,471.1	1,410.2	60.89	24.162		
10,600.0	7,227.0	10,969.1	7,662.0	63.8	0.0	-107.21	3,059.5	-451.9	1,470.4	1,408.0	62.40	23.566		
10,700.0	7,227.0	11,069.1	7,662.0	65.4	0.0	-107.22	3,159.5	-452.0	1,469.7	1,405.8	63.91	22.995		
10,800.0	7,227.0	11,169.1	7,662.0	67.0	0.0	-107.22	3,259.5	-452.1	1,469.1	1,403.6	65.44	22.448		
10,900.0	7,227.0	11,269.1	7,662.0	68.6	0.0	-107.23	3,359.5	-452.3	1,468.4	1,401.4	66.98	21.923		
11,000.0	7,227.0	11,369.1	7,662.0	70.2	0.0	-107.24	3,459.5	-452.4	1,467.7	1,399.2	68.52	21.419		
11,100.0	7,227.0	11,469.1	7,662.0	71.8	0.0	-107.25	3,559.5	-452.5	1,467.0	1,396.9	70.08	20.935		
11,200.0	7,227.0	11,569.1	7,662.0	73.4	0.0	-107.26	3,659.5	-452.6	1,466.3	1,394.7	71.63	20.470		
11,300.0	7,227.0	11,669.1	7,662.0	75.0	0.0	-107.27	3,759.5	-452.7	1,465.6	1,392.4	73.20	20.023		
11,400.0	7,227.0	11,769.1	7,662.0	76.6	0.0	-107.27	3,859.5	-452.8	1,465.0	1,390.2	74.77	19.593		
11,500.0	7,227.0	11,869.1	7,662.0	78.2	0.0	-107.28	3,959.5	-452.9	1,464.3	1,387.9	76.34	19.180		
11,600.0	7,227.0	11,969.1	7,662.0	79.9	0.0	-107.29	4,059.5	-453.0	1,463.6	1,385.7	77.93	18.782		
11,700.0	7,227.0	12,069.1	7,662.0	81.5	0.0	-107.30	4,159.5	-453.2	1,462.9	1,383.4	79.51	18.399		
11,800.0	7,227.0	12,169.1	7,662.0	83.2	0.0	-107.31	4,259.5	-453.3	1,462.2	1,381.1	81.10	18.030		
11,900.0	7,227.0	12,269.1	7,662.0	84.8	0.0	-107.32	4,359.5	-453.4	1,461.5	1,378.8	82.70	17.674		
12,000.0	7,227.0	12,369.1	7,662.0	86.5	0.0	-107.32	4,459.5	-453.5	1,460.9	1,376.6	84.29	17.330		
12,100.0	7,227.0	12,469.1	7,662.0	88.1	0.0	-107.33	4,559.5	-453.6	1,460.2	1,374.3	85.90	16.999		
12,200.0	7,227.0	12,569.1	7,662.0	89.8	0.0	-107.34	4,659.5	-453.7	1,459.5	1,372.0	87.50	16.679		
12,300.0	7,227.0	12,669.1	7,662.0	91.4	0.0	-107.35	4,759.5	-453.8	1,458.8	1,369.7	89.11	16.371		
12,400.0	7,227.0	12,769.1	7,662.0	93.1	0.0	-107.36	4,859.5	-453.9	1,458.1	1,367.4	90.72	16.072		
12,500.0	7,227.0	12,869.1	7,662.0	94.8	0.0	-107.37	4,959.5	-454.0	1,457.4	1,365.1	92.34	15.784		
12,600.0	7,227.0	12,969.1	7,662.0	96.5	0.0	-107.37	5,059.5	-454.2	1,456.8	1,362.8	93.96	15.504		
12,700.0	7,227.0	13,069.1	7,662.0	98.1	0.0	-107.38	5,159.5	-454.3	1,456.1	1,360.5	95.58	15.234		
12,800.0	7,227.0	13,169.1	7,662.0	99.8	0.0	-107.39	5,259.5	-454.4	1,455.4	1,358.2	97.20	14.973		
12,900.0	7,227.0	13,269.1	7,662.0	101.5	0.0	-107.40	5,359.5	-454.5	1,454.7	1,355.9	98.83	14.720		
13,000.0	7,227.0	13,369.1	7,662.0	103.2	0.0	-107.41	5,459.4	-454.6	1,454.0	1,353.6	100.46	14.474		
13,100.0	7,227.0	13,469.1	7,662.0	104.9	0.0	-107.42	5,559.4	-454.7	1,453.4	1,351.3	102.09	14.237		
13,200.0	7,227.0	13,569.1	7,662.0	106.6	0.0	-107.42	5,659.4	-454.8	1,452.7	1,349.0	103.72	14.006		
13,300.0	7,227.0	13,669.1	7,662.0	108.3	0.0	-107.43	5,759.4	-454.9	1,452.0	1,346.6	105.35	13.782		
13,400.0	7,227.0	13,769.1	7,662.0	110.0	0.0	-107.44	5,859.4	-455.0	1,451.3	1,344.3	106.99	13.565		
13,500.0	7,227.0	13,869.1	7,662.0	111.7	0.0	-107.45	5,959.4	-455.2	1,450.6	1,342.0	108.63	13.354		
13,600.0	7,227.0	13,969.1	7,662.0	113.4	0.0	-107.46	6,059.4	-455.3	1,449.9	1,339.7	110.27	13.149		
13,700.0	7,227.0	14,069.1	7,662.0	115.1	0.0	-107.47	6,159.4	-455.4	1,449.3	1,337.3	111.91	12.950		
13,800.0	7,227.0	14,169.1	7,662.0	116.8	0.0	-107.48	6,259.4	-455.5	1,448.6	1,335.0	113.55	12.757		
13,900.0	7,227.0	14,269.1	7,662.0	118.5	0.0	-107.48	6,359.4	-455.6	1,447.9	1,332.7	115.19	12.569		
14,000.0	7,227.0	14,369.1	7,662.0	120.2	0.0	-107.49	6,459.4	-455.7	1,447.2	1,330.4	116.84	12.386		
14,100.0	7,227.0	14,469.1	7,662.0	121.9	0.0	-107.50	6,559.4	-455.8	1,446.5	1,328.0	118.49	12.208		
14,200.0	7,227.0	14,569.1	7,662.0	123.6	0.0	-107.51	6,659.4	-455.9	1,445.8	1,325.7	120.14	12.035		
14,300.0	7,227.0	14,669.1	7,662.0	125.3	0.0	-107.52	6,759.4	-456.0	1,445.2	1,323.4	121.79	11.866		
14,400.0	7,227.0	14,769.1	7,662.0	127.1	0.0	-107.53	6,859.4	-456.2	1,444.5	1,321.0	123.44	11.702		
14,500.0	7,227.0	14,869.1	7,662.0	128.8	0.0	-107.54	6,959.4	-456.3	1,443.8	1,318.7	125.09	11.542		
14,600.0	7,227.0	14,969.1	7,662.0	130.5	0.0	-107.54	7,059.4	-456.4	1,443.1	1,316.4	126.74	11.386		
14,700.0	7,227.0	15,069.1	7,662.0	132.2	0.0	-107.55	7,159.4	-456.5	1,442.4	1,314.0	128.39	11.234		
14,800.0	7,227.0	15,169.1	7,662.0	133.9	0.0	-107.56	7,259.4	-456.6	1,441.8	1,311.7	130.05	11.086		
14,900.0	7,227.0	15,269.1	7,662.0	135.7	0.0	-107.57	7,359.4	-456.7	1,441.1	1,309.4	131.70	10.942		
15,000.0	7,227.0	15,369.1	7,662.0	137.4	0.0	-107.58	7,459.4	-456.8	1,440.4	1,307.0	133.36	10.801		
15,100.0	7,227.0	15,469.1	7,662.0	139.1	0.0	-107.59	7,559.4	-456.9	1,439.7	1,304.7	135.02	10.663		
15,200.0	7,227.0	15,569.1	7,662.0	140.8	0.0	-107.60	7,659.4	-457.0	1,439.0	1,302.3	136.68	10.529		
15,300.0	7,227.0	15,669.1	7,662.0	142.5	0.0	-107.60	7,759.4	-457.2	1,438.3	1,300.0	138.34	10.397		
15,400.0	7,227.0	15,769.1	7,662.0	144.3	0.0	-107.61	7,859.4	-457.3	1,437.7	1,297.7	140.00	10.269		
15,500.0	7,227.0	15,869.1	7,662.0	146.0	0.0	-107.62	7,959.4	-457.4	1,437.0	1,295.3	141.66	10.144		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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																			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning													
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)															
15,600.0	7,227.0	15,969.0	7,662.0	147.7	0.0	-107.63	8,059.4	-457.5	1,436.3	1,293.0	143.32	10.022														
15,700.0	7,227.0	16,069.0	7,662.0	149.5	0.0	-107.64	8,159.4	-457.6	1,435.6	1,290.6	144.98	9.902														
15,800.0	7,227.0	16,169.0	7,662.0	151.2	0.0	-107.65	8,259.4	-457.7	1,434.9	1,288.3	146.64	9.785														
15,900.0	7,227.0	16,269.0	7,662.0	152.9	0.0	-107.66	8,359.4	-457.8	1,434.3	1,285.9	148.30	9.671														
16,000.0	7,227.0	16,369.0	7,662.0	154.7	0.0	-107.66	8,459.4	-457.9	1,433.6	1,283.6	149.97	9.559														
16,100.0	7,227.0	16,469.0	7,662.0	156.4	0.0	-107.67	8,559.4	-458.0	1,432.9	1,281.3	151.63	9.450														
														16,200.0	7,227.0	16,569.0	7,662.0	158.1	0.0	-107.68	8,659.4	-458.2	1,432.2	1,278.9	153.30	9.343
														16,300.0	7,227.0	16,669.0	7,662.0	159.9	0.0	-107.69	8,759.4	-458.3	1,431.5	1,276.6	154.96	9.238
														16,400.0	7,227.0	16,769.0	7,662.0	161.6	0.0	-107.70	8,859.4	-458.4	1,430.8	1,274.2	156.63	9.135
														16,500.0	7,227.0	16,868.9	7,662.0	163.3	0.0	-107.71	8,959.4	-458.5	1,430.2	1,271.9	158.29	9.035
16,600.0	7,227.0	16,968.9	7,662.0	165.1	0.0	-107.72	9,059.4	-458.6	1,429.5	1,269.5	159.96	8.936														
														16,700.0	7,227.0	17,068.9	7,662.0	166.8	0.0	-107.73	9,159.4	-458.7	1,428.8	1,267.2	161.63	8.840
														16,800.0	7,227.0	17,168.9	7,662.0	168.5	0.0	-107.73	9,259.3	-458.8	1,428.1	1,264.8	163.30	8.746
														16,900.0	7,227.0	17,268.9	7,662.0	170.3	0.0	-107.74	9,359.3	-458.9	1,427.4	1,262.5	164.96	8.653
														17,000.0	7,227.0	17,368.9	7,662.0	172.0	0.0	-107.75	9,459.3	-459.1	1,426.8	1,260.1	166.63	8.562
17,100.0	7,227.0	17,468.9	7,662.0	173.7	0.0	-107.76	9,559.3	-459.2	1,426.1	1,257.8	168.30	8.473														
														17,200.0	7,227.0	17,568.9	7,662.0	175.5	0.0	-107.77	9,659.3	-459.3	1,425.4	1,255.4	169.97	8.386
														17,300.0	7,227.0	17,668.9	7,662.0	177.2	0.0	-107.78	9,759.3	-459.4	1,424.7	1,253.1	171.64	8.301
														17,400.0	7,227.0	17,768.9	7,662.0	179.0	0.0	-107.79	9,859.3	-459.5	1,424.0	1,250.7	173.31	8.217
														17,440.4	7,227.0	17,799.6	7,662.0	179.7	0.0	-107.79	9,890.0	-459.5	1,423.8	1,249.9	173.91	8.187
17,451.3	7,227.0	17,799.6	7,662.0	179.9	0.0	-107.79	9,890.0	-459.5	1,423.8	1,249.8	174.00	8.183 SF														

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

Offset Design S19-T1S-R65W - CONNER 19-18-2NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.23	-0.1	-30.0	30.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.23	-0.1	-30.0	30.0	29.8	0.28	108.490		
200.0	200.0	200.0	200.0	1.0	0.0	-90.23	-0.1	-30.0	30.0	29.2	0.80	37.664		
300.0	300.0	300.0	300.0	1.5	0.0	-90.23	-0.1	-30.0	30.0	28.8	1.22	24.539		
400.0	400.0	400.0	400.0	1.9	0.0	-90.23	-0.1	-30.0	30.0	28.4	1.62	18.565		
500.0	500.0	500.0	500.0	2.3	0.0	-90.23	-0.1	-30.0	30.0	28.0	2.00	15.029		
600.0	600.0	600.0	600.0	2.7	0.0	-90.23	-0.1	-30.0	30.0	27.7	2.37	12.661		
700.0	700.0	700.0	700.0	3.1	0.0	-90.23	-0.1	-30.0	30.0	27.3	2.74	10.954		
800.0	800.0	800.0	800.0	3.5	0.0	-90.23	-0.1	-30.0	30.0	26.9	3.11	9.661		
900.0	900.0	900.0	900.0	3.9	0.0	-90.23	-0.1	-30.0	30.0	26.6	3.47	8.645		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	-90.23	-0.1	-30.0	30.0	26.2	3.84	7.825		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	0.0	-90.23	-0.1	-30.0	30.0	25.8	4.20	7.149 CC, ES		
1,200.0	1,200.0	1,200.0	1,200.0	4.9	0.0	153.78	-0.1	-30.0	31.6	26.9	4.65	6.793		
1,300.0	1,299.8	1,299.8	1,299.8	5.3	0.0	157.39	-0.1	-30.0	36.4	31.1	5.27	6.898		
1,400.0	1,399.5	1,400.5	1,400.5	6.0	0.0	160.07	-1.5	-29.0	43.3	37.4	5.90	7.337		
1,500.0	1,498.7	1,501.4	1,501.2	6.7	0.0	160.47	-5.8	-25.8	51.1	44.6	6.49	7.865		
1,600.0	1,597.5	1,602.4	1,601.8	7.4	0.0	159.45	-12.9	-20.5	59.7	52.6	7.04	8.482		
1,700.0	1,695.8	1,702.0	1,700.8	7.7	0.0	158.38	-21.4	-14.1	69.5	62.2	7.32	9.504		
1,800.0	1,794.0	1,801.5	1,799.8	8.0	0.0	157.65	-29.9	-7.7	79.6	72.0	7.60	10.478		
1,900.0	1,892.3	1,900.9	1,898.7	8.3	0.0	157.09	-38.5	-1.3	89.7	81.8	7.89	11.363		
2,000.0	1,990.6	2,000.4	1,997.6	8.6	0.0	156.64	-47.0	5.1	99.7	91.5	8.20	12.168		
2,100.0	2,088.8	2,099.9	2,096.5	8.9	0.0	156.27	-55.5	11.5	109.8	101.3	8.51	12.901		
2,200.0	2,187.1	2,199.4	2,195.4	9.2	0.0	155.96	-64.0	17.9	119.9	111.1	8.84	13.570		
2,300.0	2,285.3	2,298.9	2,294.3	9.6	0.0	155.70	-72.6	24.3	130.0	120.8	9.17	14.181		
2,400.0	2,383.6	2,398.4	2,393.2	9.9	0.0	155.48	-81.1	30.7	140.1	130.6	9.50	14.741		
2,500.0	2,481.9	2,497.9	2,492.2	10.3	0.0	155.29	-89.6	37.1	150.2	140.3	9.84	15.253		
2,600.0	2,580.1	2,597.4	2,591.1	10.7	0.0	155.12	-98.2	43.5	160.3	150.1	10.19	15.723		
2,700.0	2,678.4	2,696.9	2,690.0	11.1	0.0	154.97	-106.7	49.9	170.3	159.8	10.54	16.156		
2,800.0	2,776.6	2,796.3	2,788.9	11.5	0.0	154.84	-115.2	56.2	180.4	169.5	10.90	16.555		
2,900.0	2,874.9	2,895.8	2,887.8	11.9	0.0	154.72	-123.7	62.6	190.5	179.3	11.26	16.923		
3,000.0	2,973.2	2,995.3	2,986.7	12.3	0.0	154.62	-132.3	69.0	200.6	189.0	11.62	17.264		
3,100.0	3,071.4	3,094.8	3,085.7	12.8	0.0	154.52	-140.8	75.4	210.7	198.7	11.99	17.580		
3,200.0	3,169.7	3,194.3	3,184.6	13.2	0.0	154.44	-149.3	81.8	220.8	208.5	12.35	17.874		
3,300.0	3,268.0	3,293.8	3,283.5	13.6	0.0	154.36	-157.8	88.2	230.9	218.2	12.73	18.147		
3,400.0	3,366.2	3,393.3	3,382.4	14.1	0.0	154.28	-166.4	94.6	241.0	227.9	13.10	18.402		
3,500.0	3,464.5	3,492.8	3,481.3	14.6	0.0	154.22	-174.9	101.0	251.1	237.6	13.47	18.640		
3,600.0	3,562.7	3,592.3	3,580.2	15.0	0.0	154.16	-183.4	107.4	261.2	247.4	13.85	18.862		
3,700.0	3,661.0	3,691.7	3,679.2	15.5	0.0	154.10	-192.0	113.8	271.3	257.1	14.23	19.071		
3,800.0	3,759.3	3,791.2	3,778.1	15.9	0.0	154.05	-200.5	120.2	281.4	266.8	14.61	19.267		
3,900.0	3,857.5	3,890.7	3,877.0	16.4	0.0	154.00	-209.0	126.6	291.5	276.5	14.99	19.451		
4,000.0	3,955.8	3,990.2	3,975.9	16.9	0.0	153.95	-217.5	133.0	301.6	286.2	15.37	19.624		
4,100.0	4,054.1	4,089.7	4,074.8	17.3	0.0	153.91	-226.1	139.3	311.7	296.0	15.75	19.787		
4,200.0	4,152.3	4,189.2	4,173.7	17.8	0.0	153.87	-234.6	145.7	321.8	305.7	16.14	19.941		
4,300.0	4,250.6	4,288.7	4,272.7	18.2	0.0	153.83	-243.1	152.1	331.9	315.4	16.52	20.087		
4,400.0	4,348.8	4,388.2	4,371.6	18.7	0.0	153.79	-251.7	158.5	342.0	325.1	16.91	20.225		
4,500.0	4,447.1	4,487.6	4,470.5	19.2	0.0	153.76	-260.2	164.9	352.1	334.8	17.30	20.355		
4,600.0	4,545.4	4,587.1	4,569.4	19.7	0.0	153.73	-268.7	171.3	362.2	344.5	17.69	20.479		
4,700.0	4,643.6	4,686.6	4,668.3	20.1	0.0	153.70	-277.2	177.7	372.3	354.2	18.08	20.597		
4,800.0	4,741.9	4,786.1	4,767.2	20.6	0.0	153.67	-285.8	184.1	382.4	364.0	18.47	20.709		
4,900.0	4,840.2	4,885.6	4,866.1	21.1	0.0	153.64	-294.3	190.5	392.5	373.7	18.86	20.815		
5,000.0	4,938.4	4,985.1	4,965.1	21.5	0.0	153.62	-302.8	196.9	402.6	383.4	19.25	20.917		
5,100.0	5,036.7	5,084.6	5,064.0	22.0	0.0	153.59	-311.3	203.3	412.7	393.1	19.64	21.013		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	5,134.9	5,184.1	5,162.9	22.5	0.0	153.57	-319.9	209.7	422.8	402.8	20.03	21.106		
5,300.0	5,233.2	5,283.6	5,261.8	23.0	0.0	153.55	-328.4	216.1	432.9	412.5	20.43	21.194		
5,400.0	5,331.5	5,383.0	5,360.7	23.4	0.0	153.53	-336.9	222.4	443.0	422.2	20.82	21.278		
5,500.0	5,429.7	5,482.5	5,459.6	23.9	0.0	153.51	-345.5	228.8	453.1	431.9	21.21	21.359		
5,600.0	5,528.0	5,582.0	5,558.6	24.4	0.0	153.49	-354.0	235.2	463.2	441.6	21.61	21.436		
5,700.0	5,626.2	5,681.5	5,657.5	24.9	0.0	153.47	-362.5	241.6	473.3	451.3	22.00	21.511		
5,800.0	5,724.5	5,781.0	5,756.4	25.3	0.0	153.45	-371.0	248.0	483.4	461.0	22.40	21.582		
5,900.0	5,822.8	5,880.5	5,855.3	25.8	0.0	153.44	-379.6	254.4	493.5	470.7	22.80	21.650		
6,000.0	5,921.0	5,980.0	5,954.2	26.3	0.0	153.42	-388.1	260.8	503.6	480.4	23.19	21.716		
6,100.0	6,019.3	6,079.5	6,053.1	26.8	0.0	153.40	-396.6	267.2	513.7	490.1	23.59	21.779		
6,200.0	6,117.6	6,178.9	6,152.1	27.2	0.0	153.39	-405.1	273.6	523.8	499.8	23.99	21.839		
6,300.0	6,215.8	6,278.4	6,251.0	27.7	0.0	153.37	-413.7	280.0	533.9	509.5	24.38	21.898		
6,400.0	6,314.1	6,377.9	6,349.9	28.2	0.0	153.36	-422.2	286.4	544.0	519.3	24.78	21.954		
6,500.0	6,412.3	6,477.4	6,448.8	28.7	0.0	153.35	-430.7	292.8	554.1	529.0	25.18	22.008		
6,600.0	6,510.6	6,576.9	6,547.7	29.1	0.0	153.33	-439.3	299.2	564.2	538.7	25.58	22.061		
6,700.0	6,608.9	6,676.4	6,646.6	29.6	0.0	153.32	-447.8	305.5	574.3	548.4	25.98	22.111		
6,800.0	6,707.4	6,775.4	6,745.1	30.1	0.0	-153.25	-456.3	311.9	584.3	557.9	26.41	22.128		
6,900.0	6,804.5	6,873.5	6,842.8	30.5	0.0	-123.55	-461.3	318.2	594.5	567.4	27.07	21.959		
7,000.0	6,897.3	6,975.3	6,943.6	30.9	0.0	-113.07	-450.0	324.5	605.1	577.5	27.64	21.895		
7,100.0	6,982.9	7,061.8	7,045.3	31.3	0.0	-108.72	-419.3	330.8	615.8	587.7	28.02	21.973		
7,200.0	7,058.8	7,139.4	7,143.7	31.5	0.0	-106.77	-367.5	336.7	626.0	597.7	28.28	22.138		
7,300.0	7,122.6	7,210.4	7,234.1	31.7	0.0	-105.91	-293.8	341.8	635.2	606.7	28.42	22.348		
7,400.0	7,172.5	7,262.4	7,310.5	31.7	0.0	-105.59	-199.1	345.9	642.8	614.3	28.50	22.550		
7,500.0	7,206.8	7,305.7	7,366.8	31.7	0.0	-105.52	-86.3	348.6	648.3	619.7	28.60	22.671		
7,600.0	7,224.5	7,324.4	7,397.4	31.7	0.0	-105.55	39.1	349.5	651.3	622.5	28.78	22.632		
7,700.0	7,227.0	7,305.1	7,402.0	31.6	0.0	-105.57	156.0	348.8	651.8	622.7	29.09	22.404		
7,800.0	7,227.0	7,305.1	7,402.0	31.7	0.0	-105.57	256.0	348.0	651.8	622.3	29.49	22.102		
7,900.0	7,227.0	7,305.1	7,402.0	31.8	0.0	-105.57	356.0	347.2	651.8	621.8	29.98	21.737		
8,000.0	7,227.0	7,305.1	7,402.0	32.0	0.0	-105.57	456.0	346.4	651.8	621.2	30.57	21.322		
8,100.0	7,227.0	7,305.1	7,402.0	32.5	0.0	-105.57	556.0	345.5	651.8	620.5	31.23	20.867		
8,200.0	7,227.0	7,305.1	7,402.0	33.0	0.0	-105.57	656.0	344.7	651.8	619.8	31.98	20.382		
8,300.0	7,227.0	7,305.1	7,402.0	33.7	0.0	-105.57	756.0	343.9	651.8	619.0	32.80	19.874		
8,400.0	7,227.0	7,305.1	7,402.0	34.6	0.0	-105.57	856.0	343.1	651.8	618.1	33.68	19.352		
8,500.0	7,227.0	7,305.1	7,402.0	35.5	0.0	-105.57	956.0	342.2	651.8	617.1	34.63	18.822		
8,600.0	7,227.0	7,305.1	7,402.0	36.5	0.0	-105.57	1,056.0	341.4	651.8	616.1	35.63	18.292		
8,700.0	7,227.0	7,305.1	7,402.0	37.5	0.0	-105.57	1,156.0	340.6	651.8	615.1	36.69	17.765		
8,800.0	7,227.0	7,305.1	7,402.0	38.6	0.0	-105.57	1,255.9	339.7	651.8	614.0	37.79	17.245		
8,900.0	7,227.0	7,305.1	7,402.0	39.8	0.0	-105.57	1,355.9	338.9	651.8	612.8	38.94	16.736		
9,000.0	7,227.0	7,305.1	7,402.0	41.0	0.0	-105.57	1,455.9	338.1	651.8	611.6	40.13	16.240		
9,100.0	7,227.0	7,305.1	7,402.0	42.2	0.0	-105.57	1,555.9	337.3	651.8	610.4	41.36	15.759		
9,200.0	7,227.0	7,305.1	7,402.0	43.5	0.0	-105.57	1,655.9	336.4	651.8	609.2	42.62	15.293		
9,300.0	7,227.0	7,305.1	7,402.0	44.8	0.0	-105.57	1,755.9	335.6	651.8	607.9	43.91	14.843		
9,400.0	7,227.0	7,305.1	7,402.0	46.1	0.0	-105.57	1,855.9	334.8	651.8	606.5	45.23	14.410		
9,500.0	7,227.0	7,305.1	7,402.0	47.5	0.0	-105.57	1,955.9	334.0	651.8	605.2	46.57	13.994		
9,600.0	7,227.0	7,305.1	7,402.0	48.9	0.0	-105.57	2,055.9	333.1	651.8	603.8	47.94	13.595		
9,700.0	7,227.0	7,305.1	7,402.0	50.3	0.0	-105.57	2,155.9	332.3	651.8	602.4	49.33	13.212		
9,800.0	7,227.0	7,305.1	7,402.0	51.7	0.0	-105.57	2,255.9	331.5	651.8	601.0	50.74	12.845		
9,900.0	7,227.0	7,305.1	7,402.0	53.2	0.0	-105.57	2,355.9	330.7	651.8	599.6	52.17	12.493		
10,000.0	7,227.0	7,305.1	7,402.0	54.7	0.0	-105.57	2,455.9	329.8	651.8	598.2	53.61	12.157		
10,100.0	7,227.0	7,305.1	7,402.0	56.2	0.0	-105.57	2,555.9	329.0	651.8	596.7	55.08	11.834		
10,200.0	7,227.0	7,305.1	7,402.0	57.7	0.0	-105.57	2,655.9	328.2	651.8	595.2	56.55	11.526		
10,300.0	7,227.0	7,305.1	7,402.0	59.2	0.0	-105.58	2,755.9	327.3	651.8	593.7	58.04	11.230		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	10,505.1	7,402.0	60.7	0.0	-105.58	2,855.9	326.5	651.8	592.2	59.54	10.947	
10,500.0	7,227.0	10,605.1	7,402.0	62.3	0.0	-105.58	2,955.9	325.7	651.8	590.7	61.05	10.676	
10,600.0	7,227.0	10,705.1	7,402.0	63.8	0.0	-105.58	3,055.9	324.9	651.8	589.2	62.57	10.417	
10,700.0	7,227.0	10,805.1	7,402.0	65.4	0.0	-105.58	3,155.9	324.0	651.8	587.7	64.10	10.168	
10,800.0	7,227.0	10,905.1	7,402.0	67.0	0.0	-105.58	3,255.9	323.2	651.8	586.1	65.64	9.929	
10,900.0	7,227.0	11,005.1	7,402.0	68.6	0.0	-105.58	3,355.9	322.4	651.8	584.6	67.19	9.700	
11,000.0	7,227.0	11,105.1	7,402.0	70.2	0.0	-105.58	3,455.9	321.6	651.8	583.0	68.75	9.481	
11,100.0	7,227.0	11,205.1	7,402.0	71.8	0.0	-105.58	3,555.9	320.7	651.8	581.5	70.31	9.270	
11,200.0	7,227.0	11,305.1	7,402.0	73.4	0.0	-105.58	3,655.9	319.9	651.8	579.9	71.88	9.067	
11,300.0	7,227.0	11,405.1	7,402.0	75.0	0.0	-105.58	3,755.9	319.1	651.8	578.3	73.46	8.873	
11,400.0	7,227.0	11,505.1	7,402.0	76.6	0.0	-105.58	3,855.9	318.3	651.8	576.7	75.04	8.685	
11,500.0	7,227.0	11,605.1	7,402.0	78.2	0.0	-105.58	3,955.9	317.4	651.8	575.1	76.63	8.505	
11,600.0	7,227.0	11,705.1	7,402.0	79.9	0.0	-105.58	4,055.9	316.6	651.8	573.5	78.22	8.332	
11,700.0	7,227.0	11,805.1	7,402.0	81.5	0.0	-105.58	4,155.8	315.8	651.8	571.9	79.82	8.165	
11,800.0	7,227.0	11,905.1	7,402.0	83.2	0.0	-105.58	4,255.8	315.0	651.8	570.3	81.43	8.004	
11,900.0	7,227.0	12,005.1	7,402.0	84.8	0.0	-105.58	4,355.8	314.1	651.8	568.7	83.04	7.849	
12,000.0	7,227.0	12,105.1	7,402.0	86.5	0.0	-105.58	4,455.8	313.3	651.8	567.1	84.65	7.700	
12,100.0	7,227.0	12,205.1	7,402.0	88.1	0.0	-105.58	4,555.8	312.5	651.8	565.5	86.26	7.555	
12,200.0	7,227.0	12,305.1	7,402.0	89.8	0.0	-105.58	4,655.8	311.6	651.8	563.9	87.88	7.416	
12,300.0	7,227.0	12,405.1	7,402.0	91.4	0.0	-105.58	4,755.8	310.8	651.8	562.3	89.51	7.282	
12,400.0	7,227.0	12,505.1	7,402.0	93.1	0.0	-105.58	4,855.8	310.0	651.8	560.6	91.13	7.152	
12,500.0	7,227.0	12,605.1	7,402.0	94.8	0.0	-105.58	4,955.8	309.2	651.8	559.0	92.76	7.026	
12,600.0	7,227.0	12,705.1	7,402.0	96.5	0.0	-105.58	5,055.8	308.3	651.8	557.4	94.40	6.904	
12,700.0	7,227.0	12,805.1	7,402.0	98.1	0.0	-105.58	5,155.8	307.5	651.8	555.7	96.03	6.787	
12,800.0	7,227.0	12,905.1	7,402.0	99.8	0.0	-105.58	5,255.8	306.7	651.8	554.1	97.67	6.673	
12,900.0	7,227.0	13,005.1	7,402.0	101.5	0.0	-105.58	5,355.8	305.9	651.8	552.5	99.31	6.563	
13,000.0	7,227.0	13,105.1	7,402.0	103.2	0.0	-105.58	5,455.8	305.0	651.8	550.8	100.96	6.456	
13,100.0	7,227.0	13,205.1	7,402.0	104.9	0.0	-105.58	5,555.8	304.2	651.8	549.2	102.60	6.352	
13,200.0	7,227.0	13,305.1	7,402.0	106.6	0.0	-105.58	5,655.8	303.4	651.8	547.5	104.25	6.252	
13,300.0	7,227.0	13,405.1	7,402.0	108.3	0.0	-105.58	5,755.8	302.6	651.8	545.9	105.90	6.155	
13,400.0	7,227.0	13,505.1	7,402.0	110.0	0.0	-105.58	5,855.8	301.7	651.8	544.2	107.55	6.060	
13,500.0	7,227.0	13,605.1	7,402.0	111.7	0.0	-105.58	5,955.8	300.9	651.8	542.6	109.21	5.968	
13,600.0	7,227.0	13,705.1	7,402.0	113.4	0.0	-105.58	6,055.8	300.1	651.8	540.9	110.86	5.879	
13,700.0	7,227.0	13,805.1	7,402.0	115.1	0.0	-105.58	6,155.8	299.2	651.8	539.2	112.52	5.792	
13,800.0	7,227.0	13,905.1	7,402.0	116.8	0.0	-105.58	6,255.8	298.4	651.8	537.6	114.18	5.708	
13,900.0	7,227.0	14,005.1	7,402.0	118.5	0.0	-105.58	6,355.8	297.6	651.8	535.9	115.84	5.626	
14,000.0	7,227.0	14,105.1	7,402.0	120.2	0.0	-105.58	6,455.8	296.8	651.8	534.3	117.50	5.547	
14,100.0	7,227.0	14,205.1	7,402.0	121.9	0.0	-105.58	6,555.8	295.9	651.8	532.6	119.16	5.469	
14,200.0	7,227.0	14,305.1	7,402.0	123.6	0.0	-105.58	6,655.8	295.1	651.8	530.9	120.83	5.394	
14,300.0	7,227.0	14,405.1	7,402.0	125.3	0.0	-105.58	6,755.8	294.3	651.8	529.3	122.50	5.321	
14,400.0	7,227.0	14,505.1	7,402.0	127.1	0.0	-105.58	6,855.8	293.5	651.8	527.6	124.16	5.249	
14,500.0	7,227.0	14,605.1	7,402.0	128.8	0.0	-105.58	6,955.8	292.6	651.8	525.9	125.83	5.180	
14,600.0	7,227.0	14,705.1	7,402.0	130.5	0.0	-105.58	7,055.7	291.8	651.8	524.3	127.50	5.112	
14,700.0	7,227.0	14,805.1	7,402.0	132.2	0.0	-105.58	7,155.7	291.0	651.8	522.6	129.18	5.046	
14,800.0	7,227.0	14,905.1	7,402.0	133.9	0.0	-105.58	7,255.7	290.2	651.8	520.9	130.85	4.981	
14,900.0	7,227.0	15,005.1	7,402.0	135.7	0.0	-105.58	7,355.7	289.3	651.8	519.2	132.52	4.918	
15,000.0	7,227.0	15,105.1	7,402.0	137.4	0.0	-105.58	7,455.7	288.5	651.8	517.6	134.20	4.857	
15,100.0	7,227.0	15,205.1	7,402.0	139.1	0.0	-105.58	7,555.7	287.7	651.8	515.9	135.87	4.797	
15,200.0	7,227.0	15,305.1	7,402.0	140.8	0.0	-105.58	7,655.7	286.9	651.8	514.2	137.55	4.738	
15,300.0	7,227.0	15,405.1	7,402.0	142.5	0.0	-105.58	7,755.7	286.0	651.8	512.5	139.23	4.681	
15,400.0	7,227.0	15,505.1	7,402.0	144.3	0.0	-105.58	7,855.7	285.2	651.8	510.9	140.90	4.626	
15,500.0	7,227.0	15,605.1	7,402.0	146.0	0.0	-105.58	7,955.7	284.4	651.8	509.2	142.58	4.571	

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	15,705.1	7,402.0	147.7	0.0	-105.58	8,055.7	283.5	651.8	507.5	144.26	4.518		
15,700.0	7,227.0	15,805.1	7,402.0	149.5	0.0	-105.58	8,155.7	282.7	651.8	505.8	145.94	4.466		
15,800.0	7,227.0	15,905.1	7,402.0	151.2	0.0	-105.58	8,255.7	281.9	651.8	504.1	147.63	4.415		
15,900.0	7,227.0	16,005.1	7,402.0	152.9	0.0	-105.58	8,355.7	281.1	651.8	502.4	149.31	4.365		
16,000.0	7,227.0	16,105.1	7,402.0	154.7	0.0	-105.58	8,455.7	280.2	651.8	500.8	150.99	4.317		
16,100.0	7,227.0	16,205.1	7,402.0	156.4	0.0	-105.58	8,555.7	279.4	651.8	499.1	152.67	4.269		
16,200.0	7,227.0	16,305.1	7,402.0	158.1	0.0	-105.58	8,655.7	278.6	651.8	497.4	154.36	4.222		
16,300.0	7,227.0	16,405.1	7,402.0	159.9	0.0	-105.58	8,755.7	277.8	651.8	495.7	156.04	4.177		
16,400.0	7,227.0	16,505.1	7,402.0	161.6	0.0	-105.58	8,855.7	276.9	651.8	494.0	157.73	4.132		
16,500.0	7,227.0	16,605.1	7,402.0	163.3	0.0	-105.58	8,955.7	276.1	651.8	492.3	159.42	4.088		
16,600.0	7,227.0	16,705.1	7,402.0	165.1	0.0	-105.58	9,055.7	275.3	651.8	490.7	161.10	4.046		
16,700.0	7,227.0	16,805.1	7,402.0	166.8	0.0	-105.58	9,155.7	274.5	651.8	489.0	162.79	4.004		
16,800.0	7,227.0	16,905.1	7,402.0	168.5	0.0	-105.58	9,255.7	273.6	651.8	487.3	164.48	3.963		
16,900.0	7,227.0	17,005.1	7,402.0	170.3	0.0	-105.58	9,355.7	272.8	651.8	485.6	166.17	3.922		
17,000.0	7,227.0	17,105.1	7,402.0	172.0	0.0	-105.58	9,455.7	272.0	651.8	483.9	167.86	3.883		
17,100.0	7,227.0	17,205.1	7,402.0	173.7	0.0	-105.58	9,555.7	271.1	651.8	482.2	169.55	3.844		
17,200.0	7,227.0	17,305.1	7,402.0	175.5	0.0	-105.58	9,655.7	270.3	651.8	480.5	171.24	3.806		
17,300.0	7,227.0	17,405.1	7,402.0	177.2	0.0	-105.58	9,755.7	269.5	651.8	478.8	172.93	3.769		
17,400.0	7,227.0	17,505.1	7,402.0	179.0	0.0	-105.58	9,855.7	268.7	651.8	477.1	174.62	3.732		
17,444.7	7,227.0	17,549.8	7,402.0	179.7	0.0	-105.58	9,900.4	268.3	651.8	476.4	175.37	3.716		
17,451.3	7,227.0	17,551.4	7,402.0	179.9	0.0	-105.58	9,902.0	268.3	651.8	476.4	175.39	3.716 SF		

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

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.28	-0.2	-45.0	45.0					
100.0	100.0	100.0	100.0	0.4	0.4	-90.28	-0.2	-45.0	45.0	44.5	0.55	81.355		
200.0	200.0	200.0	200.0	1.0	1.0	-90.28	-0.2	-45.0	45.0	43.4	1.59	28.233		
300.0	300.0	300.0	300.0	1.5	1.5	-90.28	-0.2	-45.0	45.0	42.6	2.45	18.394		
400.0	400.0	400.0	400.0	1.9	1.9	-90.28	-0.2	-45.0	45.0	41.8	3.24	13.916		
500.0	500.0	500.0	500.0	2.3	2.3	-90.28	-0.2	-45.0	45.0	41.0	4.00	11.266		
600.0	600.0	600.0	600.0	2.7	2.7	-90.28	-0.2	-45.0	45.0	40.3	4.74	9.491		
700.0	700.0	700.0	700.0	3.1	3.1	-90.28	-0.2	-45.0	45.0	39.5	5.48	8.212		
800.0	800.0	800.0	800.0	3.5	3.5	-90.28	-0.2	-45.0	45.0	38.8	6.22	7.242		
900.0	900.0	900.0	900.0	3.9	3.9	-90.28	-0.2	-45.0	45.0	38.1	6.95	6.481		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-90.28	-0.2	-45.0	45.0	37.4	7.68	5.866		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	4.6	-90.28	-0.2	-45.0	45.0	36.6	8.40	5.359 CC, ES		
1,200.0	1,200.0	1,200.0	1,200.0	4.9	5.0	153.26	-0.2	-45.0	46.6	37.4	9.20	5.061		
1,300.0	1,299.8	1,300.0	1,300.0	5.3	5.3	153.91	-2.0	-44.9	51.1	41.0	10.12	5.050		
1,400.0	1,399.5	1,399.9	1,399.7	6.0	6.0	152.50	-7.2	-44.5	58.5	47.4	11.03	5.303		
1,500.0	1,498.7	1,499.4	1,498.9	6.7	6.3	150.39	-15.2	-44.0	68.8	56.9	11.88	5.790		
1,600.0	1,597.5	1,598.5	1,597.7	7.4	6.6	149.86	-23.4	-43.4	82.1	69.4	12.71	6.460		
1,700.0	1,695.8	1,697.2	1,696.1	7.7	6.9	150.34	-31.6	-42.9	97.8	84.5	13.36	7.320		
1,800.0	1,794.0	1,796.0	1,794.5	8.0	7.3	150.78	-39.8	-42.3	113.7	99.7	14.01	8.115		
1,900.0	1,892.3	1,894.7	1,892.8	8.3	7.6	151.11	-48.0	-41.7	129.6	114.9	14.67	8.832		
2,000.0	1,990.6	1,993.4	1,991.2	8.6	7.9	151.37	-56.2	-41.2	145.5	130.2	15.35	9.481		
2,100.0	2,088.8	2,092.2	2,089.6	8.9	8.3	151.58	-64.4	-40.6	161.4	145.4	16.03	10.069		
2,200.0	2,187.1	2,190.9	2,188.0	9.2	8.6	151.75	-72.6	-40.0	177.3	160.6	16.72	10.604		
2,300.0	2,285.3	2,289.6	2,286.4	9.6	9.0	151.89	-80.8	-39.5	193.2	175.8	17.42	11.092		
2,400.0	2,383.6	2,388.3	2,384.8	9.9	9.3	152.01	-89.0	-38.9	209.1	191.0	18.13	11.537		
2,500.0	2,481.9	2,487.1	2,483.1	10.3	9.7	152.12	-97.2	-38.3	225.0	206.2	18.84	11.946		
2,600.0	2,580.1	2,585.8	2,581.5	10.7	10.0	152.21	-105.4	-37.8	240.9	221.4	19.55	12.321		
2,700.0	2,678.4	2,684.5	2,679.9	11.1	10.4	152.29	-113.6	-37.2	256.8	236.6	20.28	12.667		
2,800.0	2,776.6	2,783.2	2,778.3	11.5	10.7	152.36	-121.8	-36.6	272.7	251.7	21.00	12.987		
2,900.0	2,874.9	2,882.0	2,876.7	11.9	11.1	152.42	-129.9	-36.1	288.7	266.9	21.73	13.282		
3,000.0	2,973.2	2,980.7	2,975.1	12.3	11.4	152.48	-138.1	-35.5	304.6	282.1	22.47	13.557		
3,100.0	3,071.4	3,079.4	3,073.4	12.8	11.8	152.53	-146.3	-34.9	320.5	297.3	23.20	13.811		
3,200.0	3,169.7	3,178.1	3,171.8	13.2	12.2	152.57	-154.5	-34.4	336.4	312.4	23.94	14.049		
3,300.0	3,268.0	3,276.9	3,270.2	13.6	12.5	152.61	-162.7	-33.8	352.3	327.6	24.69	14.271		
3,400.0	3,366.2	3,375.6	3,368.6	14.1	12.9	152.65	-170.9	-33.2	368.2	342.8	25.43	14.478		
3,500.0	3,464.5	3,474.3	3,467.0	14.6	13.2	152.69	-179.1	-32.7	384.1	357.9	26.18	14.672		
3,600.0	3,562.7	3,573.0	3,565.4	15.0	13.6	152.72	-187.3	-32.1	400.0	373.1	26.93	14.854		
3,700.0	3,661.0	3,671.8	3,663.7	15.5	14.0	152.75	-195.5	-31.5	415.9	388.2	27.68	15.026		
3,800.0	3,759.3	3,770.5	3,762.1	15.9	14.3	152.77	-203.7	-31.0	431.8	403.4	28.43	15.187		
3,900.0	3,857.5	3,869.2	3,860.5	16.4	14.7	152.80	-211.9	-30.4	447.7	418.6	29.19	15.339		
4,000.0	3,955.8	3,967.9	3,958.9	16.9	15.1	152.82	-220.1	-29.8	463.7	433.7	29.95	15.483		
4,100.0	4,054.1	4,066.7	4,057.3	17.3	15.4	152.85	-228.3	-29.3	479.6	448.9	30.70	15.619		
4,200.0	4,152.3	4,165.4	4,155.7	17.8	15.8	152.87	-236.5	-28.7	495.5	464.0	31.46	15.748		
4,300.0	4,250.6	4,264.1	4,254.0	18.2	16.2	152.89	-244.7	-28.1	511.4	479.2	32.22	15.870		
4,400.0	4,348.8	4,362.9	4,352.4	18.7	16.5	152.90	-252.9	-27.5	527.3	494.3	32.99	15.985		
4,500.0	4,447.1	4,461.6	4,450.8	19.2	16.9	152.92	-261.1	-27.0	543.2	509.5	33.75	16.096		
4,600.0	4,545.4	4,560.3	4,549.2	19.7	17.3	152.94	-269.3	-26.4	559.1	524.6	34.51	16.200		
4,700.0	4,643.6	4,659.0	4,647.6	20.1	17.6	152.95	-277.5	-25.8	575.0	539.7	35.28	16.300		
4,800.0	4,741.9	4,757.8	4,746.0	20.6	18.0	152.97	-285.7	-25.3	590.9	554.9	36.04	16.395		
4,900.0	4,840.2	4,856.5	4,844.4	21.1	18.4	152.98	-293.9	-24.7	606.8	570.0	36.81	16.486		
5,000.0	4,938.4	4,955.2	4,942.7	21.5	18.8	152.99	-302.1	-24.1	622.8	585.2	37.58	16.573		
5,100.0	5,036.7	5,053.9	5,041.1	22.0	19.1	153.01	-310.3	-23.6	638.7	600.3	38.35	16.656		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,152.7	5,139.5	22.5	19.5	153.02	-318.5	-23.0	654.6	615.5	39.11	16.735		
5,300.0	5,233.2	5,251.4	5,237.9	23.0	19.9	153.03	-326.6	-22.4	670.5	630.6	39.88	16.811		
5,400.0	5,331.5	5,350.1	5,336.3	23.4	20.3	153.04	-334.8	-21.9	686.4	645.7	40.65	16.884		
5,500.0	5,429.7	5,448.8	5,434.7	23.9	20.6	153.05	-343.0	-21.3	702.3	660.9	41.42	16.954		
5,600.0	5,528.0	5,547.6	5,533.0	24.4	21.0	153.06	-351.2	-20.7	718.2	676.0	42.19	17.021		
5,700.0	5,626.2	5,646.3	5,631.4	24.9	21.4	153.07	-359.4	-20.2	734.1	691.2	42.97	17.086		
5,800.0	5,724.5	5,745.0	5,729.8	25.3	21.7	153.08	-367.6	-19.6	750.0	706.3	43.74	17.148		
5,900.0	5,822.8	5,843.7	5,828.2	25.8	22.1	153.09	-375.8	-19.0	766.0	721.4	44.51	17.208		
6,000.0	5,921.0	5,942.5	5,926.6	26.3	22.5	153.09	-384.0	-18.5	781.9	736.6	45.28	17.265		
6,100.0	6,019.3	6,041.2	6,025.0	26.8	22.9	153.10	-392.2	-17.9	797.8	751.7	46.06	17.321		
6,200.0	6,117.6	6,139.9	6,123.3	27.2	23.2	153.11	-400.4	-17.3	813.7	766.9	46.83	17.374		
6,300.0	6,215.8	6,238.6	6,221.7	27.7	23.6	153.12	-408.6	-16.8	829.6	782.0	47.61	17.426		
6,400.0	6,314.1	6,337.4	6,320.1	28.2	24.0	153.12	-416.8	-16.2	845.5	797.1	48.38	17.476		
6,500.0	6,412.3	6,436.1	6,418.5	28.7	24.4	153.13	-425.0	-15.6	861.4	812.3	49.16	17.524		
6,600.0	6,510.6	6,534.8	6,516.9	29.1	24.8	153.14	-433.2	-15.1	877.3	827.4	49.93	17.570		
6,700.0	6,608.9	6,633.6	6,615.3	29.6	25.1	153.14	-441.4	-14.5	893.2	842.5	50.71	17.615		
6,800.0	6,707.4	6,731.9	6,713.2	30.1	25.5	-152.56	-449.5	-13.9	909.0	857.5	51.51	17.648		
6,900.0	6,804.5	6,827.3	6,808.4	30.5	25.9	-121.72	-457.5	-13.4	924.7	872.1	52.33	17.602		
7,000.0	6,897.3	6,921.5	6,902.3	30.9	26.2	-110.73	-463.0	-12.9	940.9	887.4	53.53	17.576		
7,100.0	6,982.9	7,024.1	7,004.3	31.3	26.8	-106.11	-453.3	-12.4	957.7	903.2	54.53	17.564		
7,200.0	7,058.8	7,136.6	7,112.2	31.5	27.1	-104.04	-421.9	-12.1	974.5	919.4	55.12	17.680		
7,300.0	7,122.6	7,261.3	7,222.0	31.7	27.5	-103.27	-363.3	-12.1	990.4	934.9	55.52	17.839		
7,400.0	7,172.5	7,400.4	7,326.3	31.7	27.8	-103.22	-271.8	-12.3	1,004.2	948.5	55.73	18.020		
7,500.0	7,206.8	7,554.4	7,412.3	31.7	28.1	-103.50	-144.6	-12.9	1,014.7	958.9	55.86	18.164		
7,600.0	7,224.5	7,720.6	7,463.7	31.7	28.3	-103.80	12.8	-14.0	1,020.6	964.4	56.21	18.159		
7,700.0	7,227.0	7,861.3	7,472.0	31.6	28.6	-103.88	153.0	-15.1	1,021.6	964.7	56.90	17.954		
7,800.0	7,227.0	7,961.3	7,472.0	31.7	29.0	-103.88	253.0	-15.9	1,021.6	963.8	57.74	17.694		
7,900.0	7,227.0	8,061.3	7,472.0	31.8	29.4	-103.88	353.0	-16.7	1,021.6	962.8	58.76	17.385		
8,000.0	7,227.0	8,161.3	7,472.0	32.0	30.0	-103.88	453.0	-17.6	1,021.6	961.6	59.97	17.034		
8,100.0	7,227.0	8,261.3	7,472.0	32.5	30.7	-103.88	553.0	-18.4	1,021.6	960.2	61.35	16.651		
8,200.0	7,227.0	8,361.3	7,472.0	33.0	31.5	-103.88	653.0	-19.2	1,021.6	958.7	62.89	16.244		
8,300.0	7,227.0	8,461.3	7,472.0	33.7	32.4	-103.88	753.0	-20.0	1,021.6	957.0	64.58	15.819		
8,400.0	7,227.0	8,561.3	7,472.0	34.6	33.3	-103.88	853.0	-20.9	1,021.6	955.2	66.40	15.385		
8,500.0	7,227.0	8,661.3	7,472.0	35.5	34.4	-103.88	952.9	-21.7	1,021.6	953.2	68.35	14.946		
8,600.0	7,227.0	8,761.3	7,472.0	36.5	35.4	-103.88	1,052.9	-22.5	1,021.6	951.2	70.41	14.508		
8,700.0	7,227.0	8,861.3	7,472.0	37.5	36.6	-103.88	1,152.9	-23.3	1,021.6	949.0	72.58	14.075		
8,800.0	7,227.0	8,961.3	7,472.0	38.6	37.7	-103.88	1,252.9	-24.2	1,021.6	946.7	74.85	13.649		
8,900.0	7,227.0	9,061.3	7,472.0	39.8	39.0	-103.88	1,352.9	-25.0	1,021.6	944.4	77.20	13.233		
9,000.0	7,227.0	9,161.3	7,472.0	41.0	40.2	-103.88	1,452.9	-25.8	1,021.6	941.9	79.63	12.829		
9,100.0	7,227.0	9,261.3	7,472.0	42.2	41.5	-103.88	1,552.9	-26.6	1,021.6	939.4	82.14	12.437		
9,200.0	7,227.0	9,361.3	7,472.0	43.5	42.9	-103.88	1,652.9	-27.5	1,021.6	936.9	84.71	12.060		
9,300.0	7,227.0	9,461.3	7,472.0	44.8	44.2	-103.88	1,752.9	-28.3	1,021.6	934.2	87.34	11.696		
9,400.0	7,227.0	9,561.3	7,472.0	46.1	45.6	-103.88	1,852.9	-29.1	1,021.6	931.5	90.03	11.347		
9,500.0	7,227.0	9,661.3	7,472.0	47.5	47.0	-103.88	1,952.9	-30.0	1,021.6	928.8	92.77	11.012		
9,600.0	7,227.0	9,761.3	7,472.0	48.9	48.5	-103.88	2,052.9	-30.8	1,021.6	926.0	95.55	10.691		
9,700.0	7,227.0	9,861.3	7,472.0	50.3	49.9	-103.88	2,152.9	-31.6	1,021.6	923.2	98.38	10.384		
9,800.0	7,227.0	9,961.3	7,472.0	51.7	51.4	-103.88	2,252.9	-32.4	1,021.6	920.3	101.24	10.090		
9,900.0	7,227.0	10,061.3	7,472.0	53.2	52.9	-103.88	2,352.9	-33.3	1,021.6	917.4	104.14	9.809		
10,000.0	7,227.0	10,161.3	7,472.0	54.7	54.4	-103.88	2,452.9	-34.1	1,021.6	914.5	107.08	9.541		
10,100.0	7,227.0	10,261.3	7,472.0	56.2	55.9	-103.88	2,552.9	-34.9	1,021.6	911.5	110.04	9.284		
10,200.0	7,227.0	10,361.3	7,472.0	57.7	57.5	-103.88	2,652.9	-35.7	1,021.6	908.6	113.03	9.038		
10,300.0	7,227.0	10,461.3	7,472.0	59.2	59.0	-103.88	2,752.9	-36.6	1,021.6	905.5	116.05	8.803		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,227.0	10,561.3	7,472.0	60.7	60.6	-103.88	2,852.9	-37.4	1,021.6	902.5	119.09	8.579		
10,500.0	7,227.0	10,661.3	7,472.0	62.3	62.2	-103.88	2,952.9	-38.2	1,021.6	899.4	122.15	8.364		
10,600.0	7,227.0	10,761.3	7,472.0	63.8	63.8	-103.88	3,052.9	-39.1	1,021.6	896.4	125.23	8.158		
10,700.0	7,227.0	10,861.3	7,472.0	65.4	65.4	-103.88	3,152.9	-39.9	1,021.6	893.3	128.33	7.961		
10,800.0	7,227.0	10,961.3	7,472.0	67.0	67.0	-103.88	3,252.9	-40.7	1,021.6	890.1	131.45	7.772		
10,900.0	7,227.0	11,061.3	7,472.0	68.6	68.6	-103.88	3,352.9	-41.5	1,021.6	887.0	134.58	7.591		
11,000.0	7,227.0	11,161.3	7,472.0	70.2	70.2	-103.88	3,452.9	-42.4	1,021.6	883.9	137.73	7.417		
11,100.0	7,227.0	11,261.3	7,472.0	71.8	71.8	-103.88	3,552.9	-43.2	1,021.6	880.7	140.89	7.251		
11,200.0	7,227.0	11,361.3	7,472.0	73.4	73.5	-103.88	3,652.9	-44.0	1,021.6	877.5	144.07	7.091		
11,300.0	7,227.0	11,461.3	7,472.0	75.0	75.1	-103.88	3,752.9	-44.8	1,021.6	874.3	147.26	6.937		
11,400.0	7,227.0	11,561.3	7,472.0	76.6	76.8	-103.88	3,852.8	-45.7	1,021.6	871.1	150.46	6.790		
11,500.0	7,227.0	11,661.3	7,472.0	78.2	78.4	-103.88	3,952.8	-46.5	1,021.6	867.9	153.67	6.648		
11,600.0	7,227.0	11,761.3	7,472.0	79.9	80.1	-103.88	4,052.8	-47.3	1,021.6	864.7	156.89	6.512		
11,700.0	7,227.0	11,861.3	7,472.0	81.5	81.7	-103.88	4,152.8	-48.1	1,021.6	861.5	160.12	6.380		
11,800.0	7,227.0	11,961.3	7,472.0	83.2	83.4	-103.88	4,252.8	-49.0	1,021.6	858.2	163.36	6.254		
11,900.0	7,227.0	12,061.3	7,472.0	84.8	85.0	-103.88	4,352.8	-49.8	1,021.6	855.0	166.60	6.132		
12,000.0	7,227.0	12,161.3	7,472.0	86.5	86.7	-103.88	4,452.8	-50.6	1,021.6	851.7	169.86	6.014		
12,100.0	7,227.0	12,261.3	7,472.0	88.1	88.4	-103.88	4,552.8	-51.5	1,021.6	848.5	173.12	5.901		
12,200.0	7,227.0	12,361.3	7,472.0	89.8	90.1	-103.88	4,652.8	-52.3	1,021.6	845.2	176.39	5.791		
12,300.0	7,227.0	12,461.3	7,472.0	91.4	91.8	-103.88	4,752.8	-53.1	1,021.6	841.9	179.67	5.686		
12,400.0	7,227.0	12,561.3	7,472.0	93.1	93.4	-103.88	4,852.8	-53.9	1,021.6	838.6	182.95	5.584		
12,500.0	7,227.0	12,661.3	7,472.0	94.8	95.1	-103.88	4,952.8	-54.8	1,021.6	835.3	186.24	5.485		
12,600.0	7,227.0	12,761.3	7,472.0	96.5	96.8	-103.88	5,052.8	-55.6	1,021.6	832.0	189.54	5.390		
12,700.0	7,227.0	12,861.3	7,472.0	98.1	98.5	-103.88	5,152.8	-56.4	1,021.6	828.7	192.84	5.298		
12,800.0	7,227.0	12,961.3	7,472.0	99.8	100.2	-103.88	5,252.8	-57.2	1,021.6	825.4	196.14	5.208		
12,900.0	7,227.0	13,061.3	7,472.0	101.5	101.9	-103.88	5,352.8	-58.1	1,021.6	822.1	199.45	5.122		
13,000.0	7,227.0	13,161.3	7,472.0	103.2	103.6	-103.88	5,452.8	-58.9	1,021.6	818.8	202.77	5.038		
13,100.0	7,227.0	13,261.3	7,472.0	104.9	105.3	-103.88	5,552.8	-59.7	1,021.6	815.5	206.09	4.957		
13,200.0	7,227.0	13,361.3	7,472.0	106.6	107.0	-103.88	5,652.8	-60.5	1,021.6	812.2	209.41	4.878		
13,300.0	7,227.0	13,461.3	7,472.0	108.3	108.7	-103.88	5,752.8	-61.4	1,021.6	808.8	212.74	4.802		
13,400.0	7,227.0	13,561.3	7,472.0	110.0	110.4	-103.88	5,852.8	-62.2	1,021.6	805.5	216.07	4.728		
13,500.0	7,227.0	13,661.3	7,472.0	111.7	112.1	-103.88	5,952.8	-63.0	1,021.6	802.2	219.41	4.656		
13,600.0	7,227.0	13,761.3	7,472.0	113.4	113.9	-103.88	6,052.8	-63.9	1,021.6	798.8	222.75	4.586		
13,700.0	7,227.0	13,861.3	7,472.0	115.1	115.6	-103.88	6,152.8	-64.7	1,021.6	795.5	226.09	4.519		
13,800.0	7,227.0	13,961.3	7,472.0	116.8	117.3	-103.88	6,252.8	-65.5	1,021.6	792.1	229.43	4.453		
13,900.0	7,227.0	14,061.3	7,472.0	118.5	119.0	-103.88	6,352.8	-66.3	1,021.6	788.8	232.78	4.389		
13,900.4	7,227.0	14,061.6	7,472.0	118.5	119.0	-103.88	6,353.1	-66.3	1,021.6	788.8	232.79	4.388		
14,000.0	7,227.0	14,145.5	7,472.0	120.2	120.5	-103.87	6,437.0	-67.4	1,022.1	786.4	235.67	4.337		
14,100.0	7,227.0	14,232.2	7,472.0	121.9	122.0	-103.84	6,523.6	-70.4	1,024.6	785.9	238.62	4.294		
14,200.0	7,227.0	14,332.2	7,472.0	123.6	123.7	-103.80	6,623.5	-74.1	1,027.4	785.4	242.01	4.245		
14,300.0	7,227.0	14,432.1	7,472.0	125.3	125.4	-103.76	6,723.4	-77.9	1,030.2	784.8	245.41	4.198		
14,400.0	7,227.0	14,532.1	7,472.0	127.1	127.1	-103.72	6,823.3	-81.6	1,033.1	784.3	248.80	4.152		
14,500.0	7,227.0	14,632.0	7,472.0	128.8	128.9	-103.69	6,923.2	-85.4	1,035.9	783.7	252.21	4.107		
14,600.0	7,227.0	14,732.0	7,472.0	130.5	130.6	-103.65	7,023.1	-89.1	1,038.8	783.2	255.61	4.064		
14,700.0	7,227.0	14,831.9	7,472.0	132.2	132.3	-103.61	7,122.9	-92.9	1,041.6	782.6	259.02	4.021		
14,800.0	7,227.0	14,931.9	7,472.0	133.9	134.1	-103.57	7,222.8	-96.6	1,044.5	782.0	262.43	3.980		
14,900.0	7,227.0	15,031.9	7,472.0	135.7	135.8	-103.53	7,322.7	-100.4	1,047.3	781.5	265.84	3.940		
15,000.0	7,227.0	15,131.8	7,472.0	137.4	137.6	-103.50	7,422.6	-104.1	1,050.1	780.9	269.26	3.900		
15,100.0	7,227.0	15,231.8	7,472.0	139.1	139.3	-103.46	7,522.5	-107.9	1,053.0	780.3	272.68	3.862		
15,200.0	7,227.0	15,331.7	7,472.0	140.8	141.0	-103.42	7,622.4	-111.6	1,055.8	779.7	276.10	3.824		
15,300.0	7,227.0	15,431.7	7,472.0	142.5	142.8	-103.39	7,722.3	-115.4	1,058.7	779.2	279.52	3.788		
15,400.0	7,227.0	15,531.6	7,472.0	144.3	144.5	-103.35	7,822.2	-119.1	1,061.5	778.6	282.95	3.752		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-2NCH - OH - PLAN #1											Offset Site Error:		0.0 usft	
Survey Program: 0-MWD											Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.0	7,227.0	15,631.6	7,472.0	146.0	146.3	-103.31	7,922.0	-122.9	1,064.4	778.0	286.37	3.717		
15,600.0	7,227.0	15,731.6	7,472.0	147.7	148.0	-103.28	8,021.9	-126.6	1,067.2	777.4	289.80	3.683		
15,700.0	7,227.0	15,831.5	7,472.0	149.5	149.7	-103.24	8,121.8	-130.4	1,070.1	776.8	293.23	3.649		
15,800.0	7,227.0	15,935.9	7,472.0	151.2	151.6	-103.20	8,226.1	-134.3	1,072.9	776.1	296.82	3.615		
15,900.0	7,227.0	16,093.3	7,472.0	152.9	154.3	-103.21	8,383.5	-135.2	1,072.7	770.9	301.74	3.555		
16,000.0	7,227.0	16,198.0	7,472.0	154.7	156.1	-103.25	8,488.1	-132.5	1,069.3	764.2	305.18	3.504		
16,100.0	7,227.0	16,297.9	7,472.0	156.4	157.8	-103.29	8,588.0	-129.9	1,066.0	757.5	308.53	3.455		
16,200.0	7,227.0	16,397.8	7,472.0	158.1	159.6	-103.34	8,688.0	-127.3	1,062.6	750.8	311.87	3.407		
16,300.0	7,227.0	16,497.8	7,472.0	159.9	161.3	-103.38	8,787.9	-124.6	1,059.3	744.1	315.22	3.360		
16,400.0	7,227.0	16,597.7	7,472.0	161.6	163.0	-103.42	8,887.8	-122.0	1,055.9	737.4	318.57	3.315		
16,500.0	7,227.0	16,697.7	7,472.0	163.3	164.7	-103.47	8,987.7	-119.4	1,052.6	730.7	321.91	3.270		
16,600.0	7,227.0	16,797.6	7,472.0	165.1	166.5	-103.51	9,087.6	-116.8	1,049.2	724.0	325.26	3.226		
16,700.0	7,227.0	16,897.6	7,472.0	166.8	168.2	-103.56	9,187.5	-114.2	1,045.9	717.3	328.60	3.183		
16,800.0	7,227.0	16,997.5	7,472.0	168.5	169.9	-103.60	9,287.4	-111.6	1,042.5	710.6	331.95	3.141		
16,900.0	7,227.0	17,097.4	7,472.0	170.3	171.7	-103.64	9,387.3	-108.9	1,039.2	703.9	335.29	3.099		
17,000.0	7,227.0	17,197.4	7,472.0	172.0	173.4	-103.69	9,487.2	-106.3	1,035.8	697.2	338.64	3.059		
17,100.0	7,227.0	17,297.3	7,472.0	173.7	175.1	-103.73	9,587.1	-103.7	1,032.5	690.5	341.98	3.019		
17,200.0	7,227.0	17,397.3	7,472.0	175.5	176.8	-103.78	9,687.0	-101.1	1,029.1	683.8	345.32	2.980		
17,300.0	7,227.0	17,497.2	7,472.0	177.2	178.6	-103.83	9,786.9	-98.5	1,025.8	677.1	348.67	2.942		
17,400.0	7,227.0	17,597.1	7,472.0	179.0	180.3	-103.87	9,886.8	-95.9	1,022.5	670.5	352.01	2.905		
17,443.4	7,227.0	17,606.3	7,472.0	179.7	180.5	-103.88	9,896.0	-95.6	1,021.6	668.9	352.69	2.897		
17,451.3	7,227.0	17,606.3	7,472.0	179.9	180.5	-103.88	9,896.0	-95.6	1,021.6	668.9	352.72	2.896 SF		

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

Offset Design S19-T1S-R65W - CONNER 19-18-2NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.27	-0.3	-60.0	60.0					
100.0	100.0	100.0	100.0	0.4	0.0	-90.27	-0.3	-60.0	60.0	59.8	0.28	216.784		
200.0	200.0	200.0	200.0	1.0	0.0	-90.27	-0.3	-60.0	60.0	59.2	0.80	75.265		
300.0	300.0	300.0	300.0	1.5	0.0	-90.27	-0.3	-60.0	60.0	58.8	1.22	49.040		
400.0	400.0	400.0	400.0	1.9	0.0	-90.27	-0.3	-60.0	60.0	58.4	1.62	37.103		
500.0	500.0	500.0	500.0	2.3	0.0	-90.27	-0.3	-60.0	60.0	58.0	2.00	30.037		
600.0	600.0	600.0	600.0	2.7	0.0	-90.27	-0.3	-60.0	60.0	57.7	2.37	25.306		
700.0	700.0	700.0	700.0	3.1	0.0	-90.27	-0.3	-60.0	60.0	57.3	2.74	21.894		
800.0	800.0	800.0	800.0	3.5	0.0	-90.27	-0.3	-60.0	60.0	56.9	3.11	19.309		
900.0	900.0	900.0	900.0	3.9	0.0	-90.27	-0.3	-60.0	60.0	56.6	3.47	17.279		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	0.0	-90.27	-0.3	-60.0	60.0	56.2	3.84	15.641		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	0.0	-90.27	-0.3	-60.0	60.0	55.8	4.20	14.289 CC, ES		
1,200.0	1,200.0	1,199.1	1,199.1	4.9	0.0	151.55	-1.9	-60.7	62.2	57.6	4.67	13.317		
1,300.0	1,299.8	1,298.0	1,297.8	5.3	0.0	149.62	-6.6	-62.6	69.0	63.7	5.27	13.077		
1,400.0	1,399.5	1,396.5	1,396.0	6.0	0.0	147.22	-14.3	-65.8	80.1	74.4	5.79	13.834		
1,500.0	1,498.7	1,495.5	1,494.5	6.7	0.0	146.12	-22.7	-69.3	94.7	88.4	6.28	15.082		
1,600.0	1,597.5	1,593.9	1,592.6	7.4	0.0	146.25	-31.1	-72.8	112.1	105.3	6.76	16.579		
1,700.0	1,695.8	1,692.0	1,690.2	7.7	0.0	147.09	-39.4	-76.3	131.7	124.7	7.09	18.595		
1,800.0	1,794.0	1,789.9	1,787.8	8.0	0.0	147.81	-47.8	-79.7	151.6	144.2	7.40	20.490		
1,900.0	1,892.3	1,887.9	1,885.3	8.3	0.0	148.36	-56.1	-83.2	171.5	163.8	7.72	22.217		
2,000.0	1,990.6	1,985.9	1,982.9	8.6	0.0	148.80	-64.5	-86.6	191.4	183.4	8.05	23.791		
2,100.0	2,088.8	2,083.9	2,080.5	8.9	0.0	149.16	-72.8	-90.1	211.3	202.9	8.38	25.228		
2,200.0	2,187.1	2,181.9	2,178.0	9.2	0.0	149.45	-81.2	-93.6	231.2	222.5	8.71	26.542		
2,300.0	2,285.3	2,279.9	2,275.6	9.6	0.0	149.70	-89.5	-97.0	251.1	242.1	9.05	27.745		
2,400.0	2,383.6	2,377.9	2,373.2	9.9	0.0	149.91	-97.9	-100.5	271.1	261.7	9.40	28.847		
2,500.0	2,481.9	2,475.9	2,470.8	10.3	0.0	150.10	-106.2	-103.9	291.0	281.3	9.75	29.860		
2,600.0	2,580.1	2,573.9	2,568.3	10.7	0.0	150.25	-114.6	-107.4	310.9	300.8	10.10	30.792		
2,700.0	2,678.4	2,671.9	2,665.9	11.1	0.0	150.39	-122.9	-110.9	330.9	320.4	10.45	31.652		
2,800.0	2,776.6	2,769.8	2,763.5	11.5	0.0	150.52	-131.3	-114.3	350.8	340.0	10.81	32.446		
2,900.0	2,874.9	2,867.8	2,861.1	11.9	0.0	150.63	-139.6	-117.8	370.7	359.6	11.17	33.181		
3,000.0	2,973.2	2,965.8	2,958.6	12.3	0.0	150.73	-148.0	-121.2	390.7	379.1	11.54	33.863		
3,100.0	3,071.4	3,063.8	3,056.2	12.8	0.0	150.82	-156.3	-124.7	410.6	398.7	11.90	34.496		
3,200.0	3,169.7	3,161.8	3,153.8	13.2	0.0	150.90	-164.6	-128.2	430.5	418.3	12.27	35.086		
3,300.0	3,268.0	3,259.8	3,251.4	13.6	0.0	150.97	-173.0	-131.6	450.5	437.8	12.64	35.636		
3,400.0	3,366.2	3,357.8	3,348.9	14.1	0.0	151.04	-181.3	-135.1	470.4	457.4	13.01	36.150		
3,500.0	3,464.5	3,455.8	3,446.5	14.6	0.0	151.10	-189.7	-138.5	490.4	477.0	13.39	36.631		
3,600.0	3,562.7	3,553.8	3,544.1	15.0	0.0	151.16	-198.0	-142.0	510.3	496.5	13.76	37.081		
3,700.0	3,661.0	3,651.8	3,641.6	15.5	0.0	151.21	-206.4	-145.5	530.2	516.1	14.14	37.504		
3,800.0	3,759.3	3,749.8	3,739.2	15.9	0.0	151.26	-214.7	-148.9	550.2	535.7	14.52	37.902		
3,900.0	3,857.5	3,847.7	3,836.8	16.4	0.0	151.31	-223.1	-152.4	570.1	555.2	14.89	38.277		
4,000.0	3,955.8	3,945.7	3,934.4	16.9	0.0	151.35	-231.4	-155.8	590.1	574.8	15.27	38.630		
4,100.0	4,054.1	4,043.7	4,031.9	17.3	0.0	151.39	-239.8	-159.3	610.0	594.3	15.66	38.963		
4,200.0	4,152.3	4,141.7	4,129.5	17.8	0.0	151.43	-248.1	-162.8	629.9	613.9	16.04	39.278		
4,300.0	4,250.6	4,239.7	4,227.1	18.2	0.0	151.47	-256.5	-166.2	649.9	633.5	16.42	39.576		
4,400.0	4,348.8	4,337.7	4,324.7	18.7	0.0	151.50	-264.8	-169.7	669.8	653.0	16.80	39.859		
4,500.0	4,447.1	4,435.7	4,422.2	19.2	0.0	151.53	-273.2	-173.1	689.8	672.6	17.19	40.127		
4,600.0	4,545.4	4,533.7	4,519.8	19.7	0.0	151.56	-281.5	-176.6	709.7	692.1	17.58	40.382		
4,700.0	4,643.6	4,631.7	4,617.4	20.1	0.0	151.59	-289.8	-180.1	729.7	711.7	17.96	40.624		
4,800.0	4,741.9	4,729.7	4,714.9	20.6	0.0	151.61	-298.2	-183.5	749.6	731.2	18.35	40.854		
4,900.0	4,840.2	4,827.6	4,812.5	21.1	0.0	151.64	-306.5	-187.0	769.5	750.8	18.74	41.074		
5,000.0	4,938.4	4,925.6	4,910.1	21.5	0.0	151.66	-314.9	-190.4	789.5	770.4	19.12	41.283		
5,100.0	5,036.7	5,023.6	5,007.7	22.0	0.0	151.68	-323.2	-193.9	809.4	789.9	19.51	41.483		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	5,134.9	5,121.6	5,105.2	22.5	0.0	151.71	-331.6	-197.4	829.4	809.5	19.90	41.674		
5,300.0	5,233.2	5,219.6	5,202.8	23.0	0.0	151.73	-339.9	-200.8	849.3	829.0	20.29	41.857		
5,400.0	5,331.5	5,317.6	5,300.4	23.4	0.0	151.75	-348.3	-204.3	869.3	848.6	20.68	42.031		
5,500.0	5,429.7	5,415.6	5,398.0	23.9	0.0	151.76	-356.6	-207.7	889.2	868.1	21.07	42.199		
5,600.0	5,528.0	5,513.6	5,495.5	24.4	0.0	151.78	-365.0	-211.2	909.1	887.7	21.46	42.359		
5,700.0	5,626.2	5,611.6	5,593.1	24.9	0.0	151.80	-373.3	-214.6	929.1	907.2	21.85	42.513		
5,800.0	5,724.5	5,709.6	5,690.7	25.3	0.0	151.82	-381.7	-218.1	949.0	926.8	22.25	42.661		
5,900.0	5,822.8	5,807.6	5,788.3	25.8	0.0	151.83	-390.0	-221.6	969.0	946.3	22.64	42.802		
6,000.0	5,921.0	5,905.5	5,885.8	26.3	0.0	151.85	-398.4	-225.0	988.9	965.9	23.03	42.939		
6,100.0	6,019.3	6,003.5	5,983.4	26.8	0.0	151.86	-406.7	-228.5	1,008.9	985.4	23.42	43.070		
6,200.0	6,117.6	6,101.5	6,081.0	27.2	0.0	151.87	-415.0	-231.9	1,028.8	1,005.0	23.82	43.196		
6,300.0	6,215.8	6,199.5	6,178.5	27.7	0.0	151.89	-423.4	-235.4	1,048.8	1,024.5	24.21	43.318		
6,400.0	6,314.1	6,297.5	6,276.1	28.2	0.0	151.90	-431.7	-238.9	1,068.7	1,044.1	24.60	43.435		
6,500.0	6,412.3	6,395.5	6,373.7	28.7	0.0	151.91	-440.1	-242.3	1,088.6	1,063.6	25.00	43.548		
6,600.0	6,510.6	6,493.5	6,471.3	29.1	0.0	151.93	-448.4	-245.8	1,108.6	1,083.2	25.39	43.657		
6,700.0	6,608.9	6,591.5	6,568.8	29.6	0.0	151.94	-456.8	-249.2	1,128.5	1,102.7	25.79	43.762		
6,800.0	6,707.4	6,688.9	6,665.9	30.1	0.0	-153.18	-464.0	-252.7	1,148.5	1,122.3	26.19	43.856		
6,900.0	6,804.5	6,786.9	6,763.5	30.5	0.0	-120.94	-458.0	-256.3	1,168.2	1,141.5	26.76	43.658		
7,000.0	6,897.3	6,886.9	6,860.6	30.9	0.0	-107.93	-434.8	-260.0	1,187.2	1,160.0	27.20	43.642		
7,100.0	6,982.9	6,969.2	6,954.2	31.3	0.0	-101.23	-393.9	-263.7	1,204.8	1,177.3	27.48	43.844		
7,200.0	7,058.8	7,044.1	7,041.1	31.5	0.0	-97.17	-335.5	-267.3	1,220.5	1,192.9	27.67	44.114		
7,300.0	7,122.6	7,201.6	7,117.5	31.7	0.0	-94.51	-260.3	-270.7	1,233.8	1,206.0	27.81	44.360		
7,400.0	7,172.5	7,311.4	7,179.7	31.7	0.0	-92.77	-170.0	-273.7	1,244.3	1,216.4	27.96	44.509		
7,500.0	7,206.8	7,423.3	7,224.2	31.7	0.0	-91.70	-67.6	-276.2	1,251.6	1,223.5	28.12	44.505		
7,600.0	7,224.5	7,536.6	7,248.2	31.7	0.0	-91.19	42.9	-277.9	1,255.4	1,227.0	28.33	44.307		
7,700.0	7,227.0	7,644.6	7,252.0	31.6	0.0	-91.14	150.8	-279.0	1,255.9	1,227.3	28.61	43.905		
7,800.0	7,227.0	7,744.6	7,252.0	31.7	0.0	-91.14	250.8	-279.8	1,255.9	1,227.0	28.97	43.346		
7,900.0	7,227.0	7,844.6	7,252.0	31.8	0.0	-91.14	350.8	-280.6	1,255.9	1,226.5	29.45	42.649		
8,000.0	7,227.0	7,944.6	7,252.0	32.0	0.0	-91.14	450.8	-281.5	1,255.9	1,225.9	30.02	41.839		
8,100.0	7,227.0	8,044.6	7,252.0	32.5	0.0	-91.14	550.8	-282.3	1,255.9	1,225.2	30.68	40.937		
8,200.0	7,227.0	8,144.6	7,252.0	33.0	0.0	-91.14	650.8	-283.1	1,255.9	1,224.5	31.43	39.965		
8,300.0	7,227.0	8,244.6	7,252.0	33.7	0.0	-91.14	750.8	-283.9	1,255.9	1,223.7	32.25	38.941		
8,400.0	7,227.0	8,344.6	7,252.0	34.6	0.0	-91.14	850.8	-284.8	1,255.9	1,222.8	33.15	37.884		
8,500.0	7,227.0	8,444.6	7,252.0	35.5	0.0	-91.14	950.8	-285.6	1,255.9	1,221.8	34.12	36.810		
8,600.0	7,227.0	8,544.6	7,252.0	36.5	0.0	-91.14	1,050.8	-286.4	1,255.9	1,220.8	35.15	35.732		
8,700.0	7,227.0	8,644.6	7,252.0	37.5	0.0	-91.14	1,150.8	-287.2	1,255.9	1,219.7	36.23	34.661		
8,800.0	7,227.0	8,744.6	7,252.0	38.6	0.0	-91.14	1,250.8	-288.1	1,255.9	1,218.6	37.37	33.606		
8,900.0	7,227.0	8,844.6	7,252.0	39.8	0.0	-91.14	1,350.7	-288.9	1,255.9	1,217.4	38.56	32.573		
9,000.0	7,227.0	8,944.6	7,252.0	41.0	0.0	-91.14	1,450.7	-289.7	1,255.9	1,216.1	39.79	31.567		
9,100.0	7,227.0	9,044.6	7,252.0	42.2	0.0	-91.14	1,550.7	-290.6	1,255.9	1,214.9	41.05	30.593		
9,200.0	7,227.0	9,144.6	7,252.0	43.5	0.0	-91.14	1,650.7	-291.4	1,255.9	1,213.6	42.36	29.651		
9,300.0	7,227.0	9,244.6	7,252.0	44.8	0.0	-91.14	1,750.7	-292.2	1,255.9	1,212.2	43.69	28.745		
9,400.0	7,227.0	9,344.6	7,252.0	46.1	0.0	-91.14	1,850.7	-293.0	1,255.9	1,210.9	45.06	27.874		
9,500.0	7,227.0	9,444.6	7,252.0	47.5	0.0	-91.14	1,950.7	-293.9	1,255.9	1,209.5	46.45	27.039		
9,600.0	7,227.0	9,544.6	7,252.0	48.9	0.0	-91.14	2,050.7	-294.7	1,255.9	1,208.1	47.87	26.238		
9,700.0	7,227.0	9,644.6	7,252.0	50.3	0.0	-91.14	2,150.7	-295.5	1,255.9	1,206.6	49.31	25.472		
9,800.0	7,227.0	9,744.6	7,252.0	51.7	0.0	-91.14	2,250.7	-296.3	1,255.9	1,205.2	50.77	24.740		
9,900.0	7,227.0	9,844.6	7,252.0	53.2	0.0	-91.14	2,350.7	-297.2	1,255.9	1,203.7	52.24	24.040		
10,000.0	7,227.0	9,944.6	7,252.0	54.7	0.0	-91.14	2,450.7	-298.0	1,255.9	1,202.2	53.74	23.370		
10,100.0	7,227.0	10,044.6	7,252.0	56.2	0.0	-91.14	2,550.7	-298.8	1,255.9	1,200.7	55.25	22.731		
10,200.0	7,227.0	10,144.6	7,252.0	57.7	0.0	-91.14	2,650.7	-299.7	1,255.9	1,199.2	56.78	22.120		
10,300.0	7,227.0	10,244.6	7,252.0	59.2	0.0	-91.14	2,750.7	-300.5	1,255.9	1,197.6	58.32	21.535		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-2NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,227.0	10,344.6	7,252.0	60.7	0.0	-91.14	2,850.7	-301.3	1,255.9	1,196.1	59.87	20.977		
10,500.0	7,227.0	10,444.6	7,252.0	62.3	0.0	-91.14	2,950.7	-302.1	1,255.9	1,194.5	61.44	20.443		
10,600.0	7,227.0	10,544.6	7,252.0	63.8	0.0	-91.14	3,050.7	-303.0	1,255.9	1,192.9	63.01	19.932		
10,700.0	7,227.0	10,644.6	7,252.0	65.4	0.0	-91.14	3,150.7	-303.8	1,255.9	1,191.3	64.60	19.443		
10,800.0	7,227.0	10,744.6	7,252.0	67.0	0.0	-91.14	3,250.7	-304.6	1,255.9	1,189.8	66.19	18.975		
10,900.0	7,227.0	10,844.6	7,252.0	68.6	0.0	-91.14	3,350.7	-305.4	1,255.9	1,188.1	67.79	18.527		
11,000.0	7,227.0	10,944.6	7,252.0	70.2	0.0	-91.14	3,450.7	-306.3	1,255.9	1,186.5	69.40	18.097		
11,100.0	7,227.0	11,044.6	7,252.0	71.8	0.0	-91.14	3,550.7	-307.1	1,255.9	1,184.9	71.02	17.685		
11,200.0	7,227.0	11,144.6	7,252.0	73.4	0.0	-91.14	3,650.7	-307.9	1,255.9	1,183.3	72.64	17.289		
11,300.0	7,227.0	11,244.6	7,252.0	75.0	0.0	-91.14	3,750.7	-308.8	1,255.9	1,181.7	74.27	16.910		
11,400.0	7,227.0	11,344.6	7,252.0	76.6	0.0	-91.14	3,850.7	-309.6	1,255.9	1,180.0	75.91	16.545		
11,500.0	7,227.0	11,444.6	7,252.0	78.2	0.0	-91.14	3,950.7	-310.4	1,255.9	1,178.4	77.55	16.195		
11,600.0	7,227.0	11,544.6	7,252.0	79.9	0.0	-91.14	4,050.7	-311.2	1,255.9	1,176.7	79.20	15.858		
11,700.0	7,227.0	11,644.6	7,252.0	81.5	0.0	-91.14	4,150.7	-312.1	1,255.9	1,175.1	80.85	15.534		
11,800.0	7,227.0	11,744.6	7,252.0	83.2	0.0	-91.14	4,250.6	-312.9	1,255.9	1,173.4	82.51	15.222		
11,900.0	7,227.0	11,844.6	7,252.0	84.8	0.0	-91.14	4,350.6	-313.7	1,255.9	1,171.8	84.17	14.921		
12,000.0	7,227.0	11,944.6	7,252.0	86.5	0.0	-91.14	4,450.6	-314.5	1,255.9	1,170.1	85.84	14.631		
12,100.0	7,227.0	12,044.6	7,252.0	88.1	0.0	-91.14	4,550.6	-315.4	1,255.9	1,168.4	87.51	14.352		
12,200.0	7,227.0	12,144.6	7,252.0	89.8	0.0	-91.14	4,650.6	-316.2	1,255.9	1,166.8	89.18	14.083		
12,300.0	7,227.0	12,244.6	7,252.0	91.4	0.0	-91.14	4,750.6	-317.0	1,255.9	1,165.1	90.86	13.823		
12,400.0	7,227.0	12,344.6	7,252.0	93.1	0.0	-91.14	4,850.6	-317.9	1,255.9	1,163.4	92.54	13.572		
12,500.0	7,227.0	12,444.6	7,252.0	94.8	0.0	-91.14	4,950.6	-318.7	1,255.9	1,161.7	94.22	13.330		
12,600.0	7,227.0	12,544.6	7,252.0	96.5	0.0	-91.14	5,050.6	-319.5	1,255.9	1,160.0	95.91	13.095		
12,700.0	7,227.0	12,644.6	7,252.0	98.1	0.0	-91.14	5,150.6	-320.3	1,255.9	1,158.3	97.60	12.869		
12,800.0	7,227.0	12,744.6	7,252.0	99.8	0.0	-91.14	5,250.6	-321.2	1,255.9	1,156.7	99.29	12.649		
12,900.0	7,227.0	12,844.6	7,252.0	101.5	0.0	-91.14	5,350.6	-322.0	1,255.9	1,155.0	100.98	12.437		
13,000.0	7,227.0	12,944.6	7,252.0	103.2	0.0	-91.14	5,450.6	-322.8	1,255.9	1,153.3	102.68	12.232		
13,100.0	7,227.0	13,044.6	7,252.0	104.9	0.0	-91.14	5,550.6	-323.6	1,255.9	1,151.6	104.38	12.032		
13,200.0	7,227.0	13,144.6	7,252.0	106.6	0.0	-91.14	5,650.6	-324.5	1,255.9	1,149.9	106.08	11.840		
13,300.0	7,227.0	13,244.6	7,252.0	108.3	0.0	-91.14	5,750.6	-325.3	1,255.9	1,148.2	107.78	11.652		
13,400.0	7,227.0	13,344.6	7,252.0	110.0	0.0	-91.14	5,850.6	-326.1	1,255.9	1,146.5	109.49	11.471		
13,500.0	7,227.0	13,444.6	7,252.0	111.7	0.0	-91.14	5,950.6	-327.0	1,255.9	1,144.8	111.20	11.295		
13,600.0	7,227.0	13,544.6	7,252.0	113.4	0.0	-91.14	6,050.6	-327.8	1,255.9	1,143.0	112.91	11.124		
13,700.0	7,227.0	13,644.6	7,252.0	115.1	0.0	-91.14	6,150.6	-328.6	1,256.0	1,141.3	114.62	10.958		
13,800.0	7,227.0	13,744.6	7,252.0	116.8	0.0	-91.14	6,250.6	-329.4	1,256.0	1,139.6	116.33	10.797		
13,900.0	7,227.0	13,844.6	7,252.0	118.5	0.0	-91.14	6,350.6	-330.3	1,256.0	1,137.9	118.04	10.640		
14,000.0	7,227.0	13,944.6	7,252.0	120.2	0.0	-91.14	6,450.6	-331.1	1,256.0	1,136.2	119.76	10.488		
14,100.0	7,227.0	14,044.6	7,252.0	121.9	0.0	-91.14	6,550.6	-331.9	1,256.0	1,134.5	121.47	10.339		
14,200.0	7,227.0	14,144.6	7,252.0	123.6	0.0	-91.14	6,650.6	-332.7	1,256.0	1,132.8	123.19	10.195		
14,300.0	7,227.0	14,244.6	7,252.0	125.3	0.0	-91.14	6,750.6	-333.6	1,256.0	1,131.0	124.91	10.055		
14,400.0	7,227.0	14,344.6	7,252.0	127.1	0.0	-91.14	6,850.6	-334.4	1,256.0	1,129.3	126.63	9.918		
14,500.0	7,227.0	14,444.6	7,252.0	128.8	0.0	-91.14	6,950.6	-335.2	1,256.0	1,127.6	128.35	9.785		
14,600.0	7,227.0	14,544.6	7,252.0	130.5	0.0	-91.14	7,050.6	-336.0	1,256.0	1,125.9	130.08	9.655		
14,700.0	7,227.0	14,644.6	7,252.0	132.2	0.0	-91.14	7,150.5	-336.9	1,256.0	1,124.2	131.80	9.529		
14,800.0	7,227.0	14,744.6	7,252.0	133.9	0.0	-91.14	7,250.5	-337.7	1,256.0	1,122.4	133.53	9.406		
14,900.0	7,227.0	14,844.6	7,252.0	135.7	0.0	-91.14	7,350.5	-338.5	1,256.0	1,120.7	135.25	9.286		
15,000.0	7,227.0	14,944.6	7,252.0	137.4	0.0	-91.14	7,450.5	-339.4	1,256.0	1,119.0	136.98	9.169		
15,100.0	7,227.0	15,044.6	7,252.0	139.1	0.0	-91.14	7,550.5	-340.2	1,256.0	1,117.2	138.71	9.055		
15,200.0	7,227.0	15,144.6	7,252.0	140.8	0.0	-91.14	7,650.5	-341.0	1,256.0	1,115.5	140.44	8.943		
15,300.0	7,227.0	15,244.6	7,252.0	142.5	0.0	-91.14	7,750.5	-341.8	1,256.0	1,113.8	142.17	8.834		
15,400.0	7,227.0	15,344.6	7,252.0	144.3	0.0	-91.14	7,850.5	-342.7	1,256.0	1,112.1	143.90	8.728		
15,500.0	7,227.0	15,444.6	7,252.0	146.0	0.0	-91.14	7,950.5	-343.5	1,256.0	1,110.3	145.63	8.624		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	7,227.0	15,544.6	7,252.0	147.7	0.0	-91.14	8,050.5	-344.3	1,256.0	1,108.6	147.36	8.523		
15,700.0	7,227.0	15,644.6	7,252.0	149.5	0.0	-91.14	8,150.5	-345.1	1,256.0	1,106.9	149.10	8.424		
15,800.0	7,227.0	15,744.6	7,252.0	151.2	0.0	-91.14	8,250.5	-346.0	1,256.0	1,105.1	150.83	8.327		
15,900.0	7,227.0	15,844.6	7,252.0	152.9	0.0	-91.14	8,350.5	-346.8	1,256.0	1,103.4	152.56	8.232		
16,000.0	7,227.0	15,944.6	7,252.0	154.7	0.0	-91.14	8,450.5	-347.6	1,256.0	1,101.7	154.30	8.140		
16,100.0	7,227.0	16,044.6	7,252.0	156.4	0.0	-91.14	8,550.5	-348.5	1,256.0	1,099.9	156.04	8.049		
16,200.0	7,227.0	16,144.6	7,252.0	158.1	0.0	-91.14	8,650.5	-349.3	1,256.0	1,098.2	157.77	7.961		
16,300.0	7,227.0	16,244.6	7,252.0	159.9	0.0	-91.14	8,750.5	-350.1	1,256.0	1,096.4	159.51	7.874		
16,400.0	7,227.0	16,344.6	7,252.0	161.6	0.0	-91.14	8,850.5	-350.9	1,256.0	1,094.7	161.25	7.789		
16,500.0	7,227.0	16,444.6	7,252.0	163.3	0.0	-91.14	8,950.5	-351.8	1,256.0	1,093.0	162.99	7.706		
16,600.0	7,227.0	16,544.6	7,252.0	165.1	0.0	-91.14	9,050.5	-352.6	1,256.0	1,091.2	164.73	7.625		
16,700.0	7,227.0	16,644.6	7,252.0	166.8	0.0	-91.14	9,150.5	-353.4	1,256.0	1,089.5	166.47	7.545		
16,800.0	7,227.0	16,744.6	7,252.0	168.5	0.0	-91.14	9,250.5	-354.2	1,256.0	1,087.8	168.21	7.467		
16,900.0	7,227.0	16,844.6	7,252.0	170.3	0.0	-91.14	9,350.5	-355.1	1,256.0	1,086.0	169.95	7.390		
17,000.0	7,227.0	16,944.6	7,252.0	172.0	0.0	-91.14	9,450.5	-355.9	1,256.0	1,084.3	171.69	7.315		
17,100.0	7,227.0	17,044.6	7,252.0	173.7	0.0	-91.14	9,550.5	-356.7	1,256.0	1,082.5	173.43	7.242		
17,200.0	7,227.0	17,144.6	7,252.0	175.5	0.0	-91.14	9,650.5	-357.6	1,256.0	1,080.8	175.17	7.170		
17,300.0	7,227.0	17,244.6	7,252.0	177.2	0.0	-91.14	9,750.5	-358.4	1,256.0	1,079.0	176.91	7.099		
17,400.0	7,227.0	17,344.6	7,252.0	179.0	0.0	-91.14	9,850.5	-359.2	1,256.0	1,077.3	178.66	7.030		
17,401.5	7,227.0	17,346.1	7,252.0	179.0	0.0	-91.14	9,852.0	-359.2	1,256.0	1,077.3	178.68	7.029		
17,451.3	7,227.0	17,385.9	7,252.0	179.9	0.0	-91.14	9,891.7	-359.5	1,256.0	1,076.5	179.46	6.999 SF		

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

Offset Design S19-T1S-R65W - CONNER 19-18-3CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.10	0.0	-15.0	15.0					
100.0	100.0	100.0	100.0	0.4	0.4	-90.10	0.0	-15.0	15.0	14.5	0.55	27.210		
200.0	200.0	200.0	200.0	1.0	1.0	-90.10	0.0	-15.0	15.0	13.4	1.59	9.440		
300.0	300.0	300.0	300.0	1.5	1.5	-90.10	0.0	-15.0	15.0	12.6	2.44	6.148		
400.0	400.0	400.0	400.0	1.9	1.9	-90.10	0.0	-15.0	15.0	11.8	3.23	4.651		
500.0	500.0	500.0	500.0	2.3	2.3	-90.10	0.0	-15.0	15.0	11.0	3.99	3.764		
600.0	600.0	600.0	600.0	2.7	2.7	-90.10	0.0	-15.0	15.0	10.3	4.74	3.171		
700.0	700.0	700.0	700.0	3.1	3.1	-90.10	0.0	-15.0	15.0	9.5	5.48	2.743		
800.0	800.0	800.0	800.0	3.5	3.5	-90.10	0.0	-15.0	15.0	8.8	6.21	2.419		
900.0	900.0	900.0	900.0	3.9	3.9	-90.10	0.0	-15.0	15.0	8.1	6.94	2.165		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-90.10	0.0	-15.0	15.0	7.4	7.67	1.959		
1,100.0	1,100.0	1,100.0	1,100.0	4.6	4.6	-90.10	0.0	-15.0	15.0	6.6	8.40	1.790 CC, ES, SF		
1,200.0	1,200.0	1,200.0	1,200.0	4.9	5.0	155.23	0.0	-15.0	16.6	7.4	9.15	1.814		
1,300.0	1,299.8	1,300.5	1,300.5	5.3	5.3	158.93	-1.0	-13.6	19.9	9.7	10.19	1.953		
1,400.0	1,399.5	1,401.1	1,400.9	6.0	5.6	160.64	-4.0	-9.2	23.4	12.0	11.41	2.048		
1,500.0	1,498.7	1,501.8	1,501.3	6.7	6.3	161.09	-8.9	-1.8	27.0	14.4	12.58	2.146		
1,600.0	1,597.5	1,602.7	1,601.3	7.4	7.0	160.73	-15.8	8.4	30.8	17.1	13.66	2.251		
1,700.0	1,695.8	1,702.7	1,700.3	7.7	7.3	160.39	-23.9	20.4	35.1	20.9	14.24	2.467		
1,800.0	1,794.0	1,802.6	1,799.2	8.0	7.6	160.22	-31.9	32.4	39.7	24.9	14.83	2.676		
1,900.0	1,892.3	1,902.5	1,898.0	8.3	7.9	160.09	-40.0	44.4	44.2	28.8	15.44	2.865		
2,000.0	1,990.6	2,002.4	1,996.9	8.6	8.2	159.98	-48.1	56.4	48.8	32.7	16.07	3.036		
2,100.0	2,088.8	2,102.3	2,095.7	8.9	8.6	159.89	-56.1	68.3	53.3	36.6	16.71	3.192		
2,200.0	2,187.1	2,202.2	2,194.6	9.2	8.9	159.81	-64.2	80.3	57.9	40.5	17.36	3.334		
2,300.0	2,285.3	2,302.1	2,293.4	9.6	9.3	159.75	-72.3	92.3	62.4	44.4	18.02	3.464		
2,400.0	2,383.6	2,402.0	2,392.3	9.9	9.6	159.69	-80.3	104.3	67.0	48.3	18.69	3.582		
2,500.0	2,481.9	2,501.9	2,491.1	10.3	10.0	159.64	-88.4	116.3	71.5	52.1	19.38	3.691		
2,600.0	2,580.1	2,601.8	2,589.9	10.7	10.3	159.60	-96.5	128.3	76.1	56.0	20.07	3.791		
2,700.0	2,678.4	2,701.7	2,688.8	11.1	10.7	159.56	-104.5	140.3	80.6	59.9	20.76	3.883		
2,800.0	2,776.6	2,801.6	2,787.6	11.5	11.1	159.52	-112.6	152.3	85.2	63.7	21.47	3.968		
2,900.0	2,874.9	2,901.5	2,886.5	11.9	11.5	159.49	-120.7	164.2	89.7	67.5	22.17	4.046		
3,000.0	2,973.2	3,001.4	2,985.3	12.3	11.9	159.47	-128.8	176.2	94.3	71.4	22.89	4.118		
3,100.0	3,071.4	3,101.3	3,084.2	12.8	12.3	159.44	-136.8	188.2	98.8	75.2	23.61	4.186		
3,200.0	3,169.7	3,201.2	3,183.0	13.2	12.7	159.42	-144.9	200.2	103.4	79.0	24.33	4.248		
3,300.0	3,268.0	3,301.0	3,281.9	13.6	13.1	159.40	-153.0	212.2	107.9	82.9	25.06	4.307		
3,400.0	3,366.2	3,400.9	3,380.7	14.1	13.5	159.38	-161.0	224.2	112.5	86.7	25.79	4.361		
3,500.0	3,464.5	3,500.8	3,479.6	14.6	13.9	159.36	-169.1	236.2	117.0	90.5	26.52	4.412		
3,600.0	3,562.7	3,600.7	3,578.4	15.0	14.3	159.34	-177.2	248.2	121.6	94.3	27.26	4.460		
3,700.0	3,661.0	3,700.6	3,677.2	15.5	14.7	159.33	-185.2	260.2	126.1	98.1	28.00	4.504		
3,800.0	3,759.3	3,800.5	3,776.1	15.9	15.1	159.31	-193.3	272.1	130.7	101.9	28.74	4.546		
3,900.0	3,857.5	3,900.4	3,874.9	16.4	15.6	159.30	-201.4	284.1	135.2	105.7	29.48	4.586		
4,000.0	3,955.8	4,000.3	3,973.8	16.9	16.0	159.29	-209.4	296.1	139.8	109.5	30.23	4.623		
4,100.0	4,054.1	4,100.2	4,072.6	17.3	16.4	159.27	-217.5	308.1	144.3	113.3	30.98	4.658		
4,200.0	4,152.3	4,200.1	4,171.5	17.8	16.8	159.26	-225.6	320.1	148.9	117.1	31.73	4.691		
4,300.0	4,250.6	4,300.0	4,270.3	18.2	17.2	159.25	-233.6	332.1	153.4	120.9	32.48	4.723		
4,400.0	4,348.8	4,399.9	4,369.2	18.7	17.7	159.24	-241.7	344.1	158.0	124.7	33.24	4.752		
4,500.0	4,447.1	4,499.8	4,468.0	19.2	18.1	159.23	-249.8	356.1	162.5	128.5	33.99	4.781		
4,600.0	4,545.4	4,599.7	4,566.9	19.7	18.5	159.23	-257.8	368.0	167.1	132.3	34.75	4.807		
4,700.0	4,643.6	4,699.6	4,665.7	20.1	18.9	159.22	-265.9	380.0	171.6	136.1	35.51	4.833		
4,800.0	4,741.9	4,799.5	4,764.6	20.6	19.4	159.21	-274.0	392.0	176.2	139.9	36.27	4.857		
4,900.0	4,840.2	4,899.4	4,863.4	21.1	19.8	159.20	-282.0	404.0	180.7	143.7	37.03	4.880		
5,000.0	4,938.4	4,999.3	4,962.2	21.5	20.2	159.20	-290.1	416.0	185.3	147.5	37.79	4.902		
5,100.0	5,036.7	5,099.2	5,061.1	22.0	20.6	159.19	-298.2	428.0	189.8	151.2	38.55	4.923		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-3CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,199.1	5,159.9	22.5	21.1	159.18	-306.3	440.0	194.3	155.0	39.32	4.943		
5,300.0	5,233.2	5,299.0	5,258.8	23.0	21.5	159.18	-314.3	452.0	198.9	158.8	40.08	4.962		
5,400.0	5,331.5	5,398.9	5,357.6	23.4	21.9	159.17	-322.4	463.9	203.4	162.6	40.85	4.981		
5,500.0	5,429.7	5,498.8	5,456.5	23.9	22.3	159.17	-330.5	475.9	208.0	166.4	41.61	4.998		
5,600.0	5,528.0	5,598.7	5,555.3	24.4	22.8	159.16	-338.5	487.9	212.5	170.2	42.38	5.015		
5,700.0	5,626.2	5,698.6	5,654.2	24.9	23.2	159.15	-346.6	499.9	217.1	173.9	43.15	5.031		
5,800.0	5,724.5	5,798.5	5,753.0	25.3	23.6	159.15	-354.7	511.9	221.6	177.7	43.92	5.047		
5,900.0	5,822.8	5,898.4	5,851.9	25.8	24.1	159.14	-362.7	523.9	226.2	181.5	44.69	5.062		
6,000.0	5,921.0	5,998.3	5,950.7	26.3	24.5	159.14	-370.8	535.9	230.7	185.3	45.46	5.076		
6,100.0	6,019.3	6,098.1	6,049.5	26.8	24.9	159.14	-378.9	547.9	235.3	189.1	46.23	5.090		
6,200.0	6,117.6	6,198.0	6,148.4	27.2	25.3	159.13	-386.9	559.9	239.8	192.8	47.00	5.103		
6,300.0	6,215.8	6,297.9	6,247.2	27.7	25.8	159.13	-395.0	571.8	244.4	196.6	47.77	5.116		
6,400.0	6,314.1	6,397.8	6,346.1	28.2	26.2	159.12	-403.1	583.8	248.9	200.4	48.54	5.128		
6,500.0	6,412.3	6,497.7	6,444.9	28.7	26.6	159.12	-411.1	595.8	253.5	204.2	49.31	5.140		
6,600.0	6,510.6	6,597.6	6,543.8	29.1	27.1	159.12	-419.2	607.8	258.0	208.0	50.09	5.152		
6,700.0	6,608.9	6,697.5	6,642.6	29.6	27.5	159.11	-427.3	619.8	262.6	211.7	50.86	5.163		
6,800.0	6,707.4	6,797.0	6,741.1	30.1	27.9	-148.98	-435.3	631.7	266.3	214.5	51.78	5.143		
6,900.0	6,804.5	6,893.7	6,836.7	30.5	28.3	-123.01	-443.1	643.3	269.7	216.5	53.20	5.070		
7,000.0	6,897.3	6,984.6	6,926.7	30.9	28.7	-118.40	-450.5	654.2	277.2	222.3	54.90	5.049		
7,100.0	6,982.9	7,067.0	7,008.2	31.3	29.1	-120.33	-457.1	664.1	294.8	238.0	56.79	5.191		
7,200.0	7,058.8	7,151.7	7,092.1	31.5	29.5	-124.60	-461.9	674.2	327.1	268.5	58.61	5.581		
7,300.0	7,122.6	7,259.0	7,198.1	31.7	29.9	-130.40	-451.4	686.1	370.1	310.6	59.52	6.219		
7,400.0	7,172.5	7,394.4	7,326.1	31.7	30.5	-136.61	-410.3	699.2	418.5	359.8	58.70	7.129		
7,500.0	7,206.8	7,579.2	7,478.6	31.7	31.0	-143.05	-308.2	712.1	465.3	410.8	54.54	8.532		
7,600.0	7,224.5	7,841.6	7,623.9	31.7	31.2	-148.02	-92.5	718.7	499.9	452.7	47.19	10.595		
7,700.0	7,227.0	8,087.2	7,662.0	31.6	31.1	-148.62	148.3	711.4	509.6	463.9	45.78	11.132		
7,800.0	7,227.0	8,187.1	7,662.0	31.7	31.0	-148.23	248.1	706.6	511.8	465.1	46.70	10.959		
7,900.0	7,227.0	8,287.0	7,662.0	31.8	31.0	-147.85	347.9	701.7	513.9	466.2	47.72	10.770		
8,000.0	7,227.0	8,387.0	7,662.0	32.0	31.3	-147.48	447.7	696.9	516.0	467.2	48.83	10.568		
8,100.0	7,227.0	8,486.9	7,662.0	32.5	31.8	-147.10	547.5	692.0	518.2	468.2	50.04	10.356		
8,200.0	7,227.0	8,586.8	7,662.0	33.0	32.6	-146.73	647.3	687.2	520.4	469.1	51.34	10.136		
8,300.0	7,227.0	8,686.7	7,662.0	33.7	33.4	-146.36	747.1	682.3	522.6	469.9	52.73	9.911		
8,400.0	7,227.0	8,786.6	7,662.0	34.6	34.3	-145.99	846.9	677.5	524.9	470.7	54.21	9.682		
8,500.0	7,227.0	8,886.6	7,662.0	35.5	35.2	-145.63	946.7	672.7	527.1	471.4	55.77	9.453		
8,600.0	7,227.0	8,986.5	7,662.0	36.5	36.3	-145.27	1,046.5	667.8	529.4	472.0	57.40	9.223		
8,700.0	7,227.0	9,086.4	7,662.0	37.5	37.3	-144.92	1,146.3	663.0	531.7	472.6	59.11	8.996		
8,800.0	7,227.0	9,186.3	7,662.0	38.6	38.5	-144.56	1,246.1	658.1	534.1	473.2	60.88	8.772		
8,900.0	7,227.0	9,286.2	7,662.0	39.8	39.6	-144.21	1,345.9	653.3	536.4	473.7	62.73	8.551		
9,000.0	7,227.0	9,386.1	7,662.0	41.0	40.9	-143.87	1,445.7	648.4	538.8	474.1	64.63	8.336		
9,100.0	7,227.0	9,486.1	7,662.0	42.2	42.1	-143.52	1,545.5	643.6	541.1	474.5	66.60	8.125		
9,200.0	7,227.0	9,586.0	7,662.0	43.5	43.4	-143.18	1,645.3	638.7	543.5	474.9	68.62	7.921		
9,300.0	7,227.0	9,685.9	7,662.0	44.8	44.7	-142.84	1,745.1	633.9	546.0	475.3	70.70	7.722		
9,400.0	7,227.0	9,785.8	7,662.0	46.1	46.1	-142.51	1,844.9	629.0	548.4	475.6	72.83	7.530		
9,500.0	7,227.0	9,885.7	7,662.0	47.5	47.5	-142.18	1,944.7	624.2	550.9	475.9	75.01	7.344		
9,600.0	7,227.0	9,985.7	7,662.0	48.9	48.9	-141.85	2,044.5	619.3	553.4	476.1	77.24	7.164		
9,700.0	7,227.0	10,085.6	7,662.0	50.3	50.3	-141.52	2,144.3	614.5	555.8	476.3	79.51	6.991		
9,800.0	7,227.0	10,185.5	7,662.0	51.7	51.8	-141.20	2,244.1	609.6	558.4	476.5	81.83	6.824		
9,900.0	7,227.0	10,285.4	7,662.0	53.2	53.2	-140.88	2,343.9	604.8	560.9	476.7	84.18	6.663		
10,000.0	7,227.0	10,385.3	7,662.0	54.7	54.7	-140.56	2,443.7	599.9	563.4	476.9	86.58	6.508		
10,100.0	7,227.0	10,485.3	7,662.0	56.2	56.2	-140.25	2,543.5	595.1	566.0	477.0	89.01	6.359		
10,200.0	7,227.0	10,585.2	7,662.0	57.7	57.7	-139.93	2,643.3	590.3	568.6	477.1	91.48	6.216		
10,300.0	7,227.0	10,685.1	7,662.0	59.2	59.3	-139.62	2,743.1	585.4	571.2	477.2	93.98	6.078		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-3CDH - OH - PLAN #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.0	7,227.0	10,785.0	7,662.0	60.7	60.8	-139.32	2,842.9	580.6	573.8	477.3	96.51	5.945	
10,500.0	7,227.0	10,884.9	7,662.0	62.3	62.4	-139.02	2,942.7	575.7	576.4	477.4	99.08	5.818	
10,600.0	7,227.0	10,984.9	7,662.0	63.8	64.0	-138.72	3,042.5	570.9	579.1	477.4	101.68	5.695	
10,700.0	7,227.0	11,084.8	7,662.0	65.4	65.5	-138.42	3,142.3	566.0	581.8	477.5	104.31	5.577	
10,800.0	7,227.0	11,197.0	7,662.0	67.0	67.3	-138.19	3,254.5	562.0	583.6	476.3	107.36	5.436	
10,900.0	7,227.0	11,307.7	7,662.0	68.6	69.1	-138.26	3,365.2	562.1	583.0	473.0	110.01	5.299	
11,000.0	7,227.0	11,407.7	7,662.0	70.2	70.7	-138.40	3,465.2	563.2	581.7	469.5	112.20	5.184	
11,100.0	7,227.0	11,507.7	7,662.0	71.8	72.3	-138.54	3,565.2	564.2	580.5	466.1	114.40	5.074	
11,200.0	7,227.0	11,607.7	7,662.0	73.4	73.9	-138.68	3,665.1	565.3	579.2	462.6	116.60	4.967	
11,300.0	7,227.0	11,707.7	7,662.0	75.0	75.5	-138.83	3,765.1	566.4	578.0	459.2	118.80	4.865	
11,400.0	7,227.0	11,807.6	7,662.0	76.6	77.2	-138.97	3,865.1	567.5	576.7	455.7	121.00	4.766	
11,500.0	7,227.0	11,907.6	7,662.0	78.2	78.8	-139.11	3,965.1	568.5	575.5	452.3	123.20	4.671	
11,600.0	7,227.0	12,007.6	7,662.0	79.9	80.4	-139.25	4,065.1	569.6	574.2	448.8	125.39	4.579	
11,700.0	7,227.0	12,107.6	7,662.0	81.5	82.1	-139.40	4,165.0	570.7	573.0	445.4	127.59	4.491	
11,800.0	7,227.0	12,207.6	7,662.0	83.2	83.7	-139.54	4,265.0	571.7	571.8	442.0	129.78	4.406	
11,900.0	7,227.0	12,307.6	7,662.0	84.8	85.3	-139.69	4,365.0	572.8	570.5	438.6	131.97	4.323	
12,000.0	7,227.0	12,407.5	7,662.0	86.5	87.0	-139.83	4,465.0	573.9	569.3	435.1	134.15	4.244	
12,100.0	7,227.0	12,507.5	7,662.0	88.1	88.7	-139.98	4,564.9	574.9	568.1	431.7	136.33	4.167	
12,200.0	7,227.0	12,607.5	7,662.0	89.8	90.3	-140.12	4,664.9	576.0	566.9	428.3	138.51	4.093	
12,300.0	7,227.0	12,707.5	7,662.0	91.4	92.0	-140.27	4,764.9	577.1	565.6	425.0	140.68	4.021	
12,400.0	7,227.0	12,807.5	7,662.0	93.1	93.6	-140.42	4,864.9	578.2	564.4	421.6	142.85	3.951	
12,500.0	7,227.0	12,907.5	7,662.0	94.8	95.3	-140.57	4,964.8	579.2	563.2	418.2	145.01	3.884	
12,600.0	7,227.0	13,007.4	7,662.0	96.5	97.0	-140.72	5,064.8	580.3	562.0	414.9	147.16	3.819	
12,700.0	7,227.0	13,107.4	7,662.0	98.1	98.7	-140.87	5,164.8	581.4	560.8	411.5	149.31	3.756	
12,800.0	7,227.0	13,207.4	7,662.0	99.8	100.3	-141.02	5,264.8	582.4	559.6	408.2	151.45	3.695	
12,900.0	7,227.0	13,307.4	7,662.0	101.5	102.0	-141.17	5,364.7	583.5	558.4	404.9	153.58	3.636	
13,000.0	7,227.0	13,407.4	7,662.0	103.2	103.7	-141.32	5,464.7	584.6	557.3	401.5	155.71	3.579	
13,100.0	7,227.0	13,507.3	7,662.0	104.9	105.4	-141.47	5,564.7	585.6	556.1	398.2	157.83	3.523	
13,200.0	7,227.0	13,607.3	7,662.0	106.6	107.1	-141.63	5,664.7	586.7	554.9	394.9	159.94	3.469	
13,300.0	7,227.0	13,707.3	7,662.0	108.3	108.8	-141.78	5,764.6	587.8	553.7	391.7	162.04	3.417	
13,400.0	7,227.0	13,807.3	7,662.0	110.0	110.5	-141.94	5,864.6	588.9	552.5	388.4	164.13	3.366	
13,500.0	7,227.0	13,907.3	7,662.0	111.7	112.2	-142.09	5,964.6	589.9	551.4	385.2	166.22	3.317	
13,600.0	7,227.0	14,007.3	7,662.0	113.4	113.9	-142.25	6,064.6	591.0	550.2	381.9	168.30	3.269	
13,700.0	7,227.0	14,107.2	7,662.0	115.1	115.6	-142.40	6,164.6	592.1	549.0	378.7	170.36	3.223	
13,800.0	7,227.0	14,207.2	7,662.0	116.8	117.3	-142.56	6,264.5	593.1	547.9	375.5	172.42	3.178	
13,900.0	7,227.0	14,307.2	7,662.0	118.5	119.0	-142.72	6,364.5	594.2	546.7	372.3	174.47	3.134	
14,000.0	7,227.0	14,407.2	7,662.0	120.2	120.7	-142.88	6,464.5	595.3	545.6	369.1	176.51	3.091	
14,100.0	7,227.0	14,507.2	7,662.0	121.9	122.4	-143.04	6,564.5	596.3	544.5	365.9	178.54	3.049	
14,200.0	7,227.0	14,607.1	7,662.0	123.6	124.1	-143.20	6,664.4	597.4	543.3	362.8	180.56	3.009	
14,300.0	7,227.0	14,707.1	7,662.0	125.3	125.8	-143.36	6,764.4	598.5	542.2	359.6	182.57	2.970	
14,400.0	7,227.0	14,807.1	7,662.0	127.1	127.5	-143.52	6,864.4	599.6	541.0	356.5	184.57	2.931	
14,500.0	7,227.0	14,907.1	7,662.0	128.8	129.2	-143.68	6,964.4	600.6	539.9	353.4	186.56	2.894	
14,600.0	7,227.0	15,007.1	7,662.0	130.5	130.9	-143.84	7,064.3	601.7	538.8	350.3	188.53	2.858	
14,700.0	7,227.0	15,107.1	7,662.0	132.2	132.6	-144.01	7,164.3	602.8	537.7	347.2	190.50	2.822	
14,800.0	7,227.0	15,207.0	7,662.0	133.9	134.4	-144.17	7,264.3	603.8	536.6	344.1	192.46	2.788	
14,900.0	7,227.0	15,307.0	7,662.0	135.7	136.1	-144.33	7,364.3	604.9	535.5	341.1	194.40	2.754	
15,000.0	7,227.0	15,407.0	7,662.0	137.4	137.8	-144.50	7,464.2	606.0	534.4	338.0	196.33	2.722	
15,100.0	7,227.0	15,507.0	7,662.0	139.1	139.5	-144.67	7,564.2	607.0	533.3	335.0	198.26	2.690	
15,200.0	7,227.0	15,607.0	7,662.0	140.8	141.2	-144.83	7,664.2	608.1	532.2	332.0	200.17	2.659	
15,300.0	7,227.0	15,706.9	7,662.0	142.5	142.9	-145.00	7,764.2	609.2	531.1	329.0	202.06	2.628	
15,400.0	7,227.0	15,806.9	7,662.0	144.3	144.7	-145.17	7,864.2	610.3	530.0	326.0	203.95	2.599	
15,500.0	7,227.0	15,906.9	7,662.0	146.0	146.4	-145.34	7,964.1	611.3	528.9	323.1	205.83	2.570	

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-3CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,600.0	7,227.0	16,006.9	7,662.0	147.7	148.1	-145.50	8,064.1	612.4	527.8	320.1	207.69	2.541		
15,700.0	7,227.0	16,106.9	7,662.0	149.5	149.8	-145.67	8,164.1	613.5	526.8	317.2	209.54	2.514		
15,800.0	7,227.0	16,206.9	7,662.0	151.2	151.6	-145.85	8,264.1	614.5	525.7	314.3	211.38	2.487		
15,900.0	7,227.0	16,306.8	7,662.0	152.9	153.3	-146.02	8,364.0	615.6	524.6	311.4	213.20	2.461		
16,000.0	7,227.0	16,406.8	7,662.0	154.7	155.0	-146.19	8,464.0	616.7	523.6	308.6	215.02	2.435		
16,100.0	7,227.0	16,506.8	7,662.0	156.4	156.7	-146.36	8,564.0	617.7	522.5	305.7	216.82	2.410		
16,200.0	7,227.0	16,606.8	7,662.0	158.1	158.5	-146.54	8,664.0	618.8	521.5	302.9	218.60	2.385		
16,300.0	7,227.0	16,706.8	7,662.0	159.9	160.2	-146.71	8,763.9	619.9	520.4	300.0	220.38	2.361		
16,400.0	7,227.0	16,806.7	7,662.0	161.6	161.9	-146.88	8,863.9	621.0	519.4	297.2	222.14	2.338		
16,500.0	7,227.0	16,906.7	7,662.0	163.3	163.7	-147.06	8,963.9	622.0	518.4	294.5	223.89	2.315		
16,600.0	7,227.0	17,006.7	7,662.0	165.1	165.4	-147.24	9,063.9	623.1	517.3	291.7	225.63	2.293		
16,700.0	7,227.0	17,106.7	7,662.0	166.8	167.1	-147.41	9,163.8	624.2	516.3	288.9	227.35	2.271		
16,800.0	7,227.0	17,206.7	7,662.0	168.5	168.8	-147.59	9,263.8	625.2	515.3	286.2	229.06	2.250		
16,900.0	7,227.0	17,306.7	7,662.0	170.3	170.6	-147.77	9,363.8	626.3	514.3	283.5	230.76	2.229		
17,000.0	7,227.0	17,406.6	7,662.0	172.0	172.3	-147.95	9,463.8	627.4	513.3	280.8	232.44	2.208		
17,100.0	7,227.0	17,506.6	7,662.0	173.7	174.0	-148.13	9,563.7	628.4	512.3	278.1	234.11	2.188		
17,200.0	7,227.0	17,606.6	7,662.0	175.5	175.8	-148.31	9,663.7	629.5	511.3	275.5	235.77	2.168		
17,300.0	7,227.0	17,706.6	7,662.0	177.2	177.5	-148.49	9,763.7	630.6	510.3	272.8	237.41	2.149		
17,400.0	7,227.0	17,806.6	7,662.0	179.0	179.2	-148.67	9,863.7	631.7	509.3	270.2	239.04	2.130		
17,448.8	7,227.0	17,850.8	7,662.0	179.8	180.0	-148.75	9,907.9	632.1	508.8	269.2	239.64	2.123		
17,451.3	7,227.0	17,850.8	7,662.0	179.9	180.0	-148.75	9,907.9	632.1	508.8	269.2	239.58	2.124		

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	89.70	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	108.299		
200.0	200.0	200.0	200.0	1.0	0.0	89.70	0.2	30.0	30.0	29.2	0.80	37.602		
300.0	300.0	300.0	300.0	1.5	0.0	89.70	0.2	30.0	30.0	28.8	1.22	24.502		
400.0	400.0	400.0	400.0	1.9	0.0	89.70	0.2	30.0	30.0	28.4	1.62	18.538		
500.0	500.0	500.0	500.0	2.3	0.0	89.70	0.2	30.0	30.0	28.0	2.00	15.009		
600.0	600.0	600.0	600.0	2.7	0.0	89.70	0.2	30.0	30.0	27.6	2.37	12.645		
700.0	700.0	700.0	700.0	3.1	0.0	89.70	0.2	30.0	30.0	27.3	2.74	10.940		
800.0	800.0	800.0	800.0	3.5	0.0	89.70	0.2	30.0	30.0	26.9	3.11	9.649		
900.0	900.0	900.0	900.0	3.9	0.0	89.70	0.2	30.0	30.0	26.5	3.47	8.635 CC, ES		
1,000.0	1,000.0	999.0	999.0	4.2	0.0	90.75	-0.4	31.6	31.6	27.8	3.82	8.277		
1,100.0	1,100.0	1,097.7	1,097.6	4.6	0.0	93.35	-2.1	36.4	36.6	32.4	4.14	8.831		
1,200.0	1,200.0	1,196.2	1,195.6	4.9	0.0	-21.82	-5.0	44.4	43.3	38.7	4.58	9.442		
1,300.0	1,299.8	1,294.4	1,293.1	5.3	0.0	-20.68	-8.9	55.5	50.1	44.9	5.24	9.570		
1,400.0	1,399.5	1,392.3	1,389.9	6.0	0.0	-20.27	-14.0	69.8	57.0	51.2	5.84	9.760		
1,500.0	1,498.7	1,490.1	1,485.9	6.7	0.0	-20.36	-20.2	87.0	64.0	57.6	6.40	9.996		
1,600.0	1,597.5	1,587.6	1,581.0	7.4	0.0	-20.79	-27.4	107.4	71.1	64.1	6.92	10.265		
1,700.0	1,695.8	1,687.4	1,677.9	7.7	0.0	-21.61	-35.4	129.7	77.2	70.0	7.20	10.722		
1,800.0	1,794.0	1,787.2	1,774.9	8.0	0.0	-22.38	-43.4	152.1	83.2	75.7	7.48	11.121		
1,900.0	1,892.3	1,887.0	1,871.8	8.3	0.0	-23.04	-51.4	174.5	89.2	81.5	7.78	11.472		
2,000.0	1,990.6	1,986.8	1,968.7	8.6	0.0	-23.63	-59.3	196.9	95.3	87.2	8.08	11.783		
2,100.0	2,088.8	2,086.6	2,065.7	8.9	0.0	-24.14	-67.3	219.3	101.3	92.9	8.40	12.058		
2,200.0	2,187.1	2,186.4	2,162.6	9.2	0.0	-24.59	-75.3	241.7	107.3	98.6	8.72	12.302		
2,300.0	2,285.3	2,286.3	2,259.6	9.6	0.0	-25.00	-83.3	264.1	113.4	104.3	9.05	12.519		
2,400.0	2,383.6	2,386.1	2,356.5	9.9	0.0	-25.36	-91.3	286.5	119.4	110.0	9.39	12.712		
2,500.0	2,481.9	2,485.9	2,453.5	10.3	0.0	-25.70	-99.2	308.9	125.4	115.7	9.74	12.883		
2,600.0	2,580.1	2,585.7	2,550.4	10.7	0.0	-25.99	-107.2	331.3	131.5	121.4	10.09	13.037		
2,700.0	2,678.4	2,685.5	2,647.3	11.1	0.0	-26.27	-115.2	353.6	137.6	127.1	10.44	13.174		
2,800.0	2,776.6	2,785.3	2,744.3	11.5	0.0	-26.52	-123.2	376.0	143.6	132.8	10.80	13.297		
2,900.0	2,874.9	2,885.1	2,841.2	11.9	0.0	-26.75	-131.2	398.4	149.7	138.5	11.16	13.408		
3,000.0	2,973.2	2,985.0	2,938.2	12.3	0.0	-26.96	-139.1	420.8	155.7	144.2	11.53	13.507		
3,100.0	3,071.4	3,084.8	3,035.1	12.8	0.0	-27.16	-147.1	443.2	161.8	149.9	11.90	13.597		
3,200.0	3,169.7	3,184.6	3,132.1	13.2	0.0	-27.34	-155.1	465.6	167.9	155.6	12.27	13.679		
3,300.0	3,268.0	3,284.4	3,229.0	13.6	0.0	-27.51	-163.1	488.0	173.9	161.3	12.65	13.752		
3,400.0	3,366.2	3,384.2	3,325.9	14.1	0.0	-27.67	-171.1	510.4	180.0	167.0	13.03	13.819		
3,500.0	3,464.5	3,484.0	3,422.9	14.6	0.0	-27.81	-179.0	532.8	186.1	172.7	13.41	13.880		
3,600.0	3,562.7	3,583.8	3,519.8	15.0	0.0	-27.95	-187.0	555.2	192.2	178.4	13.79	13.936		
3,700.0	3,661.0	3,683.7	3,616.8	15.5	0.0	-28.08	-195.0	577.6	198.2	184.1	14.17	13.987		
3,800.0	3,759.3	3,783.5	3,713.7	15.9	0.0	-28.20	-203.0	599.9	204.3	189.7	14.56	14.034		
3,900.0	3,857.5	3,883.3	3,810.7	16.4	0.0	-28.32	-211.0	622.3	210.4	195.4	14.95	14.076		
4,000.0	3,955.8	3,983.1	3,907.6	16.9	0.0	-28.43	-218.9	644.7	216.5	201.1	15.33	14.116		
4,100.0	4,054.1	4,082.9	4,004.5	17.3	0.0	-28.53	-226.9	667.1	222.5	206.8	15.73	14.152		
4,200.0	4,152.3	4,182.7	4,101.5	17.8	0.0	-28.63	-234.9	689.5	228.6	212.5	16.12	14.185		
4,300.0	4,250.6	4,282.5	4,198.4	18.2	0.0	-28.72	-242.9	711.9	234.7	218.2	16.51	14.216		
4,400.0	4,348.8	4,382.4	4,295.4	18.7	0.0	-28.81	-250.9	734.3	240.8	223.9	16.90	14.244		
4,500.0	4,447.1	4,482.2	4,392.3	19.2	0.0	-28.89	-258.9	756.7	246.9	229.6	17.30	14.271		
4,600.0	4,545.4	4,582.0	4,489.3	19.7	0.0	-28.97	-266.8	779.1	252.9	235.2	17.69	14.295		
4,700.0	4,643.6	4,681.8	4,586.2	20.1	0.0	-29.05	-274.8	801.5	259.0	240.9	18.09	14.318		
4,800.0	4,741.9	4,781.6	4,683.1	20.6	0.0	-29.12	-282.8	823.9	265.1	246.6	18.49	14.339		
4,900.0	4,840.2	4,881.4	4,780.1	21.1	0.0	-29.19	-290.8	846.2	271.2	252.3	18.89	14.358		
5,000.0	4,938.4	4,981.2	4,877.0	21.5	0.0	-29.25	-298.8	868.6	277.3	258.0	19.29	14.377		
5,100.0	5,036.7	5,081.1	4,974.0	22.0	0.0	-29.31	-306.7	891.0	283.3	263.7	19.69	14.394		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-3NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,180.9	5,070.9	22.5	0.0	-29.38	-314.7	913.4	289.4	269.3	20.09	14.410		
5,300.0	5,233.2	5,280.7	5,167.9	23.0	0.0	-29.43	-322.7	935.8	295.5	275.0	20.49	14.425		
5,400.0	5,331.5	5,380.5	5,264.8	23.4	0.0	-29.49	-330.7	958.2	301.6	280.7	20.89	14.439		
5,500.0	5,429.7	5,480.3	5,361.7	23.9	0.0	-29.54	-338.7	980.6	307.7	286.4	21.29	14.452		
5,600.0	5,528.0	5,580.1	5,458.7	24.4	0.0	-29.59	-346.6	1,003.0	313.8	292.1	21.69	14.464		
5,700.0	5,626.2	5,679.9	5,555.6	24.9	0.0	-29.64	-354.6	1,025.4	319.8	297.7	22.10	14.475		
5,800.0	5,724.5	5,779.8	5,652.6	25.3	0.0	-29.69	-362.6	1,047.8	325.9	303.4	22.50	14.486		
5,900.0	5,822.8	5,879.6	5,749.5	25.8	0.0	-29.74	-370.6	1,070.2	332.0	309.1	22.90	14.496		
6,000.0	5,921.0	5,979.4	5,846.4	26.3	0.0	-29.78	-378.6	1,092.6	338.1	314.8	23.31	14.506		
6,100.0	6,019.3	6,079.2	5,943.4	26.8	0.0	-29.82	-386.5	1,114.9	344.2	320.5	23.71	14.515		
6,200.0	6,117.6	6,179.0	6,040.3	27.2	0.0	-29.86	-394.5	1,137.3	350.3	326.1	24.12	14.524		
6,300.0	6,215.8	6,278.8	6,137.3	27.7	0.0	-29.90	-402.5	1,159.7	356.4	331.8	24.52	14.532		
6,400.0	6,314.1	6,378.6	6,234.2	28.2	0.0	-29.94	-410.5	1,182.1	362.4	337.5	24.93	14.539		
6,500.0	6,412.3	6,478.5	6,331.2	28.7	0.0	-29.98	-418.5	1,204.5	368.5	343.2	25.33	14.546		
6,600.0	6,510.6	6,578.3	6,428.1	29.1	0.0	-30.01	-426.4	1,226.9	374.6	348.9	25.74	14.553		
6,700.0	6,608.9	6,678.1	6,525.0	29.6	0.0	-30.05	-434.4	1,249.3	380.7	354.5	26.15	14.559		
6,800.0	6,707.4	6,777.5	6,621.6	30.1	0.0	23.81	-442.4	1,271.6	386.5	360.0	26.46	14.607		
6,900.0	6,804.5	6,874.1	6,715.4	30.5	0.0	57.48	-450.1	1,293.3	392.5	365.7	26.81	14.639		
7,000.0	6,897.3	6,968.2	6,806.9	30.9	0.0	73.63	-456.6	1,314.4	401.6	374.6	27.03	14.860		
7,100.0	6,982.9	7,071.8	6,907.4	31.3	0.0	83.95	-449.2	1,337.5	414.8	387.6	27.21	15.246		
7,200.0	7,058.8	7,148.0	7,014.8	31.5	0.0	91.56	-419.8	1,362.0	431.0	403.7	27.36	15.755		
7,300.0	7,122.6	7,313.5	7,125.3	31.7	0.0	97.60	-361.9	1,386.9	448.7	421.3	27.31	16.426		
7,400.0	7,172.5	7,456.5	7,231.1	31.7	0.0	102.38	-269.2	1,410.5	465.5	438.6	26.93	17.288		
7,500.0	7,206.8	7,615.6	7,318.5	31.7	0.0	105.83	-138.2	1,429.6	479.0	452.7	26.28	18.222		
7,600.0	7,224.5	7,787.6	7,369.7	31.7	0.0	107.68	25.1	1,440.0	486.5	460.7	25.84	18.830		
7,700.0	7,227.0	7,928.0	7,377.0	31.6	0.0	107.92	165.0	1,440.5	487.5	461.6	25.98	18.765		
7,800.0	7,227.0	8,028.0	7,377.0	31.7	0.0	107.92	265.0	1,439.7	487.5	461.2	26.29	18.541		
7,900.0	7,227.0	8,128.0	7,377.0	31.8	0.0	107.92	365.0	1,438.9	487.5	460.8	26.71	18.250		
8,000.0	7,227.0	8,228.0	7,377.0	32.0	0.0	107.92	465.0	1,438.0	487.5	460.3	27.23	17.903		
8,100.0	7,227.0	8,328.0	7,377.0	32.5	0.0	107.92	565.0	1,437.2	487.5	459.7	27.85	17.509		
8,200.0	7,227.0	8,428.0	7,377.0	33.0	0.0	107.92	665.0	1,436.4	487.5	459.0	28.55	17.079		
8,300.0	7,227.0	8,528.0	7,377.0	33.7	0.0	107.92	765.0	1,435.6	487.5	458.2	29.33	16.624		
8,400.0	7,227.0	8,628.0	7,377.0	34.6	0.0	107.92	865.0	1,434.7	487.5	457.3	30.18	16.152		
8,500.0	7,227.0	8,728.0	7,377.0	35.5	0.0	107.92	965.0	1,433.9	487.5	456.4	31.11	15.671		
8,600.0	7,227.0	8,828.0	7,377.0	36.5	0.0	107.92	1,065.0	1,433.1	487.5	455.4	32.10	15.188		
8,700.0	7,227.0	8,928.0	7,377.0	37.5	0.0	107.92	1,165.0	1,432.3	487.5	454.4	33.15	14.708		
8,800.0	7,227.0	9,028.0	7,377.0	38.6	0.0	107.92	1,265.0	1,431.4	487.5	453.3	34.25	14.236		
8,900.0	7,227.0	9,128.0	7,377.0	39.8	0.0	107.92	1,365.0	1,430.6	487.5	452.1	35.39	13.775		
9,000.0	7,227.0	9,228.0	7,377.0	41.0	0.0	107.92	1,465.0	1,429.8	487.5	450.9	36.58	13.328		
9,100.0	7,227.0	9,328.0	7,377.0	42.2	0.0	107.92	1,565.0	1,428.9	487.5	449.7	37.81	12.895		
9,200.0	7,227.0	9,428.0	7,377.0	43.5	0.0	107.92	1,665.0	1,428.1	487.5	448.5	39.07	12.478		
9,300.0	7,227.0	9,528.0	7,377.0	44.8	0.0	107.92	1,765.0	1,427.3	487.5	447.2	40.37	12.078		
9,400.0	7,227.0	9,628.0	7,377.0	46.1	0.0	107.92	1,865.0	1,426.5	487.5	445.8	41.69	11.694		
9,500.0	7,227.0	9,728.0	7,377.0	47.5	0.0	107.92	1,964.9	1,425.6	487.5	444.5	43.04	11.328		
9,600.0	7,227.0	9,828.0	7,377.0	48.9	0.0	107.92	2,064.9	1,424.8	487.5	443.1	44.41	10.977		
9,700.0	7,227.0	9,928.0	7,377.0	50.3	0.0	107.92	2,164.9	1,424.0	487.5	441.7	45.81	10.643		
9,800.0	7,227.0	10,028.0	7,377.0	51.7	0.0	107.92	2,264.9	1,423.2	487.5	440.3	47.22	10.324		
9,900.0	7,227.0	10,128.0	7,377.0	53.2	0.0	107.92	2,364.9	1,422.3	487.5	438.9	48.66	10.020		
10,000.0	7,227.0	10,228.0	7,377.0	54.7	0.0	107.92	2,464.9	1,421.5	487.5	437.4	50.10	9.730		
10,100.0	7,227.0	10,328.0	7,377.0	56.2	0.0	107.92	2,564.9	1,420.7	487.5	436.0	51.57	9.454		
10,200.0	7,227.0	10,428.0	7,377.0	57.7	0.0	107.92	2,664.9	1,419.9	487.5	434.5	53.05	9.190		
10,300.0	7,227.0	10,528.0	7,377.0	59.2	0.0	107.92	2,764.9	1,419.0	487.5	433.0	54.54	8.939		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		
10,400.0	7,227.0	10,628.0	7,377.0	60.7	0.0	107.92	2,864.9	1,418.2	487.5	431.5	56.04	8.699		
10,500.0	7,227.0	10,728.0	7,377.0	62.3	0.0	107.92	2,964.9	1,417.4	487.5	430.0	57.56	8.471		
10,600.0	7,227.0	10,828.0	7,377.0	63.8	0.0	107.92	3,064.9	1,416.5	487.5	428.4	59.08	8.252		
10,700.0	7,227.0	10,928.0	7,377.0	65.4	0.0	107.92	3,164.9	1,415.7	487.5	426.9	60.61	8.043		
10,800.0	7,227.0	11,028.0	7,377.0	67.0	0.0	107.92	3,264.9	1,414.9	487.5	425.4	62.15	7.844		
10,900.0	7,227.0	11,128.0	7,377.0	68.6	0.0	107.92	3,364.9	1,414.1	487.5	423.8	63.70	7.653		
11,000.0	7,227.0	11,228.0	7,377.0	70.2	0.0	107.92	3,464.9	1,413.2	487.5	422.3	65.26	7.471		
11,100.0	7,227.0	11,328.0	7,377.0	71.8	0.0	107.92	3,564.9	1,412.4	487.5	420.7	66.82	7.296		
11,200.0	7,227.0	11,428.0	7,377.0	73.4	0.0	107.92	3,664.9	1,411.6	487.5	419.1	68.39	7.128		
11,300.0	7,227.0	11,528.0	7,377.0	75.0	0.0	107.92	3,764.9	1,410.8	487.5	417.6	69.97	6.968		
11,400.0	7,227.0	11,628.0	7,377.0	76.6	0.0	107.92	3,864.9	1,409.9	487.5	416.0	71.55	6.814		
11,500.0	7,227.0	11,728.0	7,377.0	78.2	0.0	107.92	3,964.9	1,409.1	487.5	414.4	73.14	6.666		
11,600.0	7,227.0	11,828.0	7,377.0	79.9	0.0	107.92	4,064.9	1,408.3	487.5	412.8	74.73	6.524		
11,700.0	7,227.0	11,928.0	7,377.0	81.5	0.0	107.92	4,164.9	1,407.4	487.5	411.2	76.32	6.388		
11,800.0	7,227.0	12,028.0	7,377.0	83.2	0.0	107.92	4,264.9	1,406.6	487.5	409.6	77.92	6.256		
11,900.0	7,227.0	12,128.0	7,377.0	84.8	0.0	107.92	4,364.9	1,405.8	487.5	408.0	79.53	6.130		
12,000.0	7,227.0	12,228.0	7,377.0	86.5	0.0	107.92	4,464.9	1,405.0	487.5	406.4	81.14	6.009		
12,100.0	7,227.0	12,328.0	7,377.0	88.1	0.0	107.92	4,564.9	1,404.1	487.5	404.8	82.75	5.892		
12,200.0	7,227.0	12,428.0	7,377.0	89.8	0.0	107.92	4,664.9	1,403.3	487.5	403.2	84.36	5.779		
12,300.0	7,227.0	12,528.0	7,377.0	91.4	0.0	107.92	4,764.9	1,402.5	487.5	401.5	85.98	5.670		
12,400.0	7,227.0	12,628.0	7,377.0	93.1	0.0	107.92	4,864.8	1,401.7	487.5	399.9	87.60	5.565		
12,500.0	7,227.0	12,728.0	7,377.0	94.8	0.0	107.92	4,964.8	1,400.8	487.5	398.3	89.22	5.464		
12,600.0	7,227.0	12,828.0	7,377.0	96.5	0.0	107.92	5,064.8	1,400.0	487.5	396.7	90.85	5.366		
12,700.0	7,227.0	12,928.0	7,377.0	98.1	0.0	107.92	5,164.8	1,399.2	487.5	395.0	92.48	5.272		
12,800.0	7,227.0	13,028.0	7,377.0	99.8	0.0	107.92	5,264.8	1,398.3	487.5	393.4	94.11	5.180		
12,900.0	7,227.0	13,128.0	7,377.0	101.5	0.0	107.92	5,364.8	1,397.5	487.5	391.8	95.74	5.092		
13,000.0	7,227.0	13,228.0	7,377.0	103.2	0.0	107.92	5,464.8	1,396.7	487.5	390.1	97.38	5.006		
13,100.0	7,227.0	13,328.0	7,377.0	104.9	0.0	107.92	5,564.8	1,395.9	487.5	388.5	99.02	4.924		
13,200.0	7,227.0	13,428.0	7,377.0	106.6	0.0	107.92	5,664.8	1,395.0	487.5	386.9	100.66	4.843		
13,300.0	7,227.0	13,528.0	7,377.0	108.3	0.0	107.92	5,764.8	1,394.2	487.5	385.2	102.30	4.766		
13,400.0	7,227.0	13,628.0	7,377.0	110.0	0.0	107.92	5,864.8	1,393.4	487.5	383.6	103.94	4.690		
13,500.0	7,227.0	13,728.0	7,377.0	111.7	0.0	107.92	5,964.8	1,392.6	487.5	381.9	105.59	4.617		
13,600.0	7,227.0	13,828.0	7,377.0	113.4	0.0	107.92	6,064.8	1,391.7	487.5	380.3	107.23	4.546		
13,700.0	7,227.0	13,928.0	7,377.0	115.1	0.0	107.92	6,164.8	1,390.9	487.5	378.6	108.88	4.477		
13,800.0	7,227.0	14,028.0	7,377.0	116.8	0.0	107.92	6,264.8	1,390.1	487.5	377.0	110.53	4.411		
13,900.0	7,227.0	14,128.0	7,377.0	118.5	0.0	107.92	6,364.8	1,389.3	487.5	375.3	112.18	4.346		
14,000.0	7,227.0	14,228.0	7,377.0	120.2	0.0	107.92	6,464.8	1,388.4	487.5	373.7	113.84	4.283		
14,100.0	7,227.0	14,328.0	7,377.0	121.9	0.0	107.92	6,564.8	1,387.6	487.5	372.0	115.49	4.221		
14,200.0	7,227.0	14,428.0	7,377.0	123.6	0.0	107.92	6,664.8	1,386.8	487.5	370.4	117.15	4.162		
14,300.0	7,227.0	14,528.0	7,377.0	125.3	0.0	107.92	6,764.8	1,385.9	487.5	368.7	118.80	4.104		
14,400.0	7,227.0	14,628.0	7,377.0	127.1	0.0	107.92	6,864.8	1,385.1	487.5	367.1	120.46	4.047		
14,500.0	7,227.0	14,728.0	7,377.0	128.8	0.0	107.92	6,964.8	1,384.3	487.5	365.4	122.12	3.992		
14,600.0	7,227.0	14,828.0	7,377.0	130.5	0.0	107.92	7,064.8	1,383.5	487.5	363.7	123.78	3.939		
14,700.0	7,227.0	14,928.0	7,377.0	132.2	0.0	107.92	7,164.8	1,382.6	487.5	362.1	125.44	3.887		
14,800.0	7,227.0	15,028.0	7,377.0	133.9	0.0	107.92	7,264.8	1,381.8	487.5	360.4	127.10	3.836		
14,900.0	7,227.0	15,128.0	7,377.0	135.7	0.0	107.92	7,364.8	1,381.0	487.5	358.8	128.76	3.786		
15,000.0	7,227.0	15,228.0	7,377.0	137.4	0.0	107.92	7,464.8	1,380.2	487.5	357.1	130.42	3.738		
15,100.0	7,227.0	15,328.0	7,377.0	139.1	0.0	107.92	7,564.8	1,379.3	487.5	355.4	132.09	3.691		
15,200.0	7,227.0	15,428.0	7,377.0	140.8	0.0	107.92	7,664.8	1,378.5	487.5	353.8	133.75	3.645		
15,300.0	7,227.0	15,528.0	7,377.0	142.5	0.0	107.92	7,764.8	1,377.7	487.5	352.1	135.42	3.600		
15,400.0	7,227.0	15,628.0	7,377.0	144.3	0.0	107.92	7,864.7	1,376.8	487.5	350.4	137.09	3.556		
15,500.0	7,227.0	15,728.0	7,377.0	146.0	0.0	107.92	7,964.7	1,376.0	487.5	348.8	138.75	3.514		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		
15,600.0	7,227.0	15,828.0	7,377.0	147.7	0.0	107.92	8,064.7	1,375.2	487.5	347.1	140.42	3.472		
15,700.0	7,227.0	15,928.0	7,377.0	149.5	0.0	107.92	8,164.7	1,374.4	487.5	345.4	142.09	3.431		
15,800.0	7,227.0	16,028.0	7,377.0	151.2	0.0	107.92	8,264.7	1,373.5	487.5	343.8	143.76	3.391		
15,900.0	7,227.0	16,128.0	7,377.0	152.9	0.0	107.92	8,364.7	1,372.7	487.5	342.1	145.43	3.352		
16,000.0	7,227.0	16,228.0	7,377.0	154.7	0.0	107.92	8,464.7	1,371.9	487.5	340.4	147.10	3.314		
16,100.0	7,227.0	16,328.0	7,377.0	156.4	0.0	107.92	8,564.7	1,371.1	487.5	338.7	148.77	3.277		
16,200.0	7,227.0	16,428.0	7,377.0	158.1	0.0	107.92	8,664.7	1,370.2	487.5	337.1	150.44	3.241		
16,300.0	7,227.0	16,528.0	7,377.0	159.9	0.0	107.92	8,764.7	1,369.4	487.5	335.4	152.11	3.205		
16,400.0	7,227.0	16,628.0	7,377.0	161.6	0.0	107.92	8,864.7	1,368.6	487.5	333.7	153.79	3.170		
16,500.0	7,227.0	16,728.0	7,377.0	163.3	0.0	107.92	8,964.7	1,367.7	487.5	332.1	155.46	3.136		
16,600.0	7,227.0	16,828.0	7,377.0	165.1	0.0	107.92	9,064.7	1,366.9	487.5	330.4	157.13	3.103		
16,700.0	7,227.0	16,928.0	7,377.0	166.8	0.0	107.92	9,164.7	1,366.1	487.5	328.7	158.81	3.070		
16,800.0	7,227.0	17,028.0	7,377.0	168.5	0.0	107.92	9,264.7	1,365.3	487.5	327.0	160.48	3.038		
16,900.0	7,227.0	17,128.0	7,377.0	170.3	0.0	107.92	9,364.7	1,364.4	487.5	325.4	162.16	3.006		
17,000.0	7,227.0	17,228.0	7,377.0	172.0	0.0	107.92	9,464.7	1,363.6	487.5	323.7	163.83	2.976		
17,100.0	7,227.0	17,328.0	7,377.0	173.7	0.0	107.92	9,564.7	1,362.8	487.5	322.0	165.51	2.945		
17,200.0	7,227.0	17,428.0	7,377.0	175.5	0.0	107.92	9,664.7	1,362.0	487.5	320.3	167.19	2.916		
17,300.0	7,227.0	17,528.0	7,377.0	177.2	0.0	107.92	9,764.7	1,361.1	487.5	318.6	168.86	2.887		
17,400.0	7,227.0	17,628.0	7,377.0	179.0	0.0	107.92	9,864.7	1,360.3	487.5	317.0	170.54	2.859		
17,451.3	7,227.0	17,679.3	7,377.0	179.9	0.0	107.92	9,916.0	1,359.9	487.5	316.1	171.40	2.844 SF		

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

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.77	0.1	15.0	15.0					
100.0	100.0	100.0	100.0	0.4	0.4	89.77	0.1	15.0	15.0	14.4	0.55	27.067		
200.0	200.0	200.0	200.0	1.0	1.0	89.77	0.1	15.0	15.0	13.4	1.59	9.392		
300.0	300.0	300.0	300.0	1.5	1.5	89.77	0.1	15.0	15.0	12.5	2.45	6.119		
400.0	400.0	400.0	400.0	1.9	1.9	89.77	0.1	15.0	15.0	11.7	3.23	4.629		
500.0	500.0	500.0	500.0	2.3	2.3	89.77	0.1	15.0	15.0	11.0	4.00	3.747		
600.0	600.0	600.0	600.0	2.7	2.7	89.77	0.1	15.0	15.0	10.2	4.74	3.157		
700.0	700.0	700.0	700.0	3.1	3.1	89.77	0.1	15.0	15.0	9.5	5.48	2.731		
800.0	800.0	800.0	800.0	3.5	3.5	89.77	0.1	15.0	15.0	8.8	6.22	2.409		
900.0	900.0	900.0	900.0	3.9	3.9	89.77	0.1	15.0	15.0	8.0	6.95	2.155		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.77	0.1	15.0	15.0	7.3	7.67	1.951 CC, ES		
1,100.0	1,100.0	1,099.5	1,099.5	4.6	4.6	92.09	-0.6	16.6	16.6	8.1	8.47	1.959		
1,200.0	1,200.0	1,198.8	1,198.7	4.9	5.0	-22.24	-2.6	21.3	19.9	10.3	9.59	2.077		
1,300.0	1,299.8	1,298.0	1,297.5	5.3	5.7	-20.70	-5.9	29.3	23.3	12.4	10.90	2.142		
1,400.0	1,399.5	1,397.1	1,395.9	6.0	6.4	-20.17	-10.5	40.3	26.9	14.7	12.13	2.214		
1,500.0	1,498.7	1,496.1	1,493.7	6.7	7.1	-20.28	-16.4	54.5	30.4	17.2	13.26	2.294		
1,600.0	1,597.5	1,595.0	1,590.7	7.4	7.8	-20.84	-23.7	71.8	34.0	19.7	14.34	2.374		
1,700.0	1,695.8	1,694.8	1,688.3	7.7	8.2	-21.93	-31.7	91.1	37.1	22.1	14.98	2.478		
1,800.0	1,794.0	1,794.8	1,786.0	8.0	8.5	-22.96	-39.8	110.5	40.0	24.5	15.52	2.579		
1,900.0	1,892.3	1,894.7	1,883.8	8.3	8.8	-23.86	-47.9	129.9	42.9	26.8	16.08	2.669		
2,000.0	1,990.6	1,994.7	1,981.5	8.6	9.1	-24.64	-56.0	149.2	45.9	29.2	16.67	2.750		
2,100.0	2,088.8	2,094.6	2,079.2	8.9	9.4	-25.33	-64.1	168.6	48.8	31.5	17.29	2.822		
2,200.0	2,187.1	2,194.6	2,176.9	9.2	9.7	-25.94	-72.2	188.0	51.7	33.8	17.92	2.886		
2,300.0	2,285.3	2,294.5	2,274.7	9.6	10.0	-26.49	-80.2	207.4	54.7	36.1	18.58	2.943		
2,400.0	2,383.6	2,394.5	2,372.4	9.9	10.4	-26.97	-88.3	226.7	57.6	38.4	19.25	2.994		
2,500.0	2,481.9	2,494.5	2,470.1	10.3	10.7	-27.42	-96.4	246.1	60.6	40.6	19.93	3.040		
2,600.0	2,580.1	2,594.4	2,567.9	10.7	11.1	-27.82	-104.5	265.5	63.5	42.9	20.62	3.080		
2,700.0	2,678.4	2,694.4	2,665.6	11.1	11.5	-28.18	-112.6	284.9	66.5	45.2	21.33	3.117		
2,800.0	2,776.6	2,794.3	2,763.3	11.5	11.9	-28.51	-120.7	304.3	69.5	47.4	22.05	3.150		
2,900.0	2,874.9	2,894.3	2,861.0	11.9	12.3	-28.82	-128.8	323.6	72.4	49.6	22.78	3.179		
3,000.0	2,973.2	2,994.2	2,958.8	12.3	12.8	-29.10	-136.8	343.0	75.4	51.9	23.52	3.206		
3,100.0	3,071.4	3,094.2	3,056.5	12.8	13.2	-29.36	-144.9	362.4	78.4	54.1	24.26	3.230		
3,200.0	3,169.7	3,194.1	3,154.2	13.2	13.7	-29.60	-153.0	381.8	81.3	56.3	25.01	3.251		
3,300.0	3,268.0	3,294.1	3,251.9	13.6	14.2	-29.83	-161.1	401.1	84.3	58.5	25.77	3.271		
3,400.0	3,366.2	3,394.1	3,349.7	14.1	14.7	-30.04	-169.2	420.5	87.3	60.7	26.53	3.289		
3,500.0	3,464.5	3,494.0	3,447.4	14.6	15.1	-30.23	-177.3	439.9	90.2	62.9	27.30	3.305		
3,600.0	3,562.7	3,594.0	3,545.1	15.0	15.6	-30.42	-185.4	459.3	93.2	65.1	28.08	3.320		
3,700.0	3,661.0	3,693.9	3,642.8	15.5	16.1	-30.59	-193.5	478.6	96.2	67.3	28.85	3.334		
3,800.0	3,759.3	3,793.9	3,740.6	15.9	16.6	-30.75	-201.5	498.0	99.2	69.5	29.64	3.346		
3,900.0	3,857.5	3,893.8	3,838.3	16.4	17.1	-30.90	-209.6	517.4	102.1	71.7	30.42	3.357		
4,000.0	3,955.8	3,993.8	3,936.0	16.9	17.6	-31.05	-217.7	536.8	105.1	73.9	31.21	3.368		
4,100.0	4,054.1	4,093.7	4,033.7	17.3	18.1	-31.18	-225.8	556.1	108.1	76.1	32.01	3.377		
4,200.0	4,152.3	4,193.7	4,131.5	17.8	18.6	-31.31	-233.9	575.5	111.1	78.3	32.80	3.386		
4,300.0	4,250.6	4,293.7	4,229.2	18.2	19.1	-31.43	-242.0	594.9	114.1	80.5	33.60	3.394		
4,400.0	4,348.8	4,393.6	4,326.9	18.7	19.6	-31.55	-250.1	614.3	117.0	82.6	34.40	3.402		
4,500.0	4,447.1	4,493.6	4,424.6	19.2	20.1	-31.66	-258.1	633.6	120.0	84.8	35.21	3.409		
4,600.0	4,545.4	4,593.5	4,522.4	19.7	20.6	-31.76	-266.2	653.0	123.0	87.0	36.01	3.415		
4,700.0	4,643.6	4,693.5	4,620.1	20.1	21.1	-31.86	-274.3	672.4	126.0	89.2	36.82	3.421		
4,800.0	4,741.9	4,793.4	4,717.8	20.6	21.6	-31.95	-282.4	691.8	129.0	91.3	37.63	3.427		
4,900.0	4,840.2	4,893.4	4,815.5	21.1	22.1	-32.04	-290.5	711.1	131.9	93.5	38.44	3.432		
5,000.0	4,938.4	4,993.3	4,913.3	21.5	22.6	-32.13	-298.6	730.5	134.9	95.7	39.25	3.437		
5,100.0	5,036.7	5,093.3	5,011.0	22.0	23.1	-32.21	-306.7	749.9	137.9	97.8	40.07	3.442		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,193.2	5,108.7	22.5	23.6	-32.29	-314.8	769.3	140.9	100.0	40.89	3.446		
5,300.0	5,233.2	5,293.2	5,206.4	23.0	24.1	-32.37	-322.8	788.6	143.9	102.2	41.70	3.450		
5,400.0	5,331.5	5,393.2	5,304.2	23.4	24.6	-32.44	-330.9	808.0	146.9	104.3	42.52	3.453		
5,500.0	5,429.7	5,493.1	5,401.9	23.9	25.1	-32.51	-339.0	827.4	149.8	106.5	43.34	3.457		
5,600.0	5,528.0	5,593.1	5,499.6	24.4	25.6	-32.58	-347.1	846.8	152.8	108.7	44.17	3.460		
5,700.0	5,626.2	5,693.0	5,597.3	24.9	26.1	-32.64	-355.2	866.2	155.8	110.8	44.99	3.463		
5,800.0	5,724.5	5,793.0	5,695.1	25.3	26.6	-32.71	-363.3	885.5	158.8	113.0	45.81	3.466		
5,900.0	5,822.8	5,892.9	5,792.8	25.8	27.1	-32.77	-371.4	904.9	161.8	115.1	46.64	3.469		
6,000.0	5,921.0	5,992.9	5,890.5	26.3	27.6	-32.82	-379.4	924.3	164.8	117.3	47.46	3.471		
6,100.0	6,019.3	6,092.8	5,988.2	26.8	28.1	-32.88	-387.5	943.7	167.7	119.4	48.29	3.474		
6,200.0	6,117.6	6,192.8	6,086.0	27.2	28.6	-32.93	-395.6	963.0	170.7	121.6	49.12	3.476		
6,300.0	6,215.8	6,292.8	6,183.7	27.7	29.2	-32.99	-403.7	982.4	173.7	123.8	49.95	3.478		
6,400.0	6,314.1	6,392.7	6,281.4	28.2	29.7	-33.04	-411.8	1,001.8	176.7	125.9	50.77	3.480		
6,500.0	6,412.3	6,492.7	6,379.1	28.7	30.2	-33.08	-419.9	1,021.2	179.7	128.1	51.60	3.482		
6,600.0	6,510.6	6,592.6	6,476.9	29.1	30.7	-33.13	-428.0	1,040.5	182.7	130.2	52.43	3.484		
6,700.0	6,608.9	6,692.6	6,574.6	29.6	31.2	-33.18	-436.1	1,059.9	185.6	132.4	53.27	3.485		
6,800.0	6,707.4	6,792.1	6,671.9	30.1	31.7	22.24	-444.1	1,079.2	188.0	134.3	53.71	3.500		
6,900.0	6,804.5	6,888.8	6,766.5	30.5	32.2	59.93	-451.9	1,098.0	191.1	137.3	53.75	3.555		
7,000.0	6,897.3	6,980.9	6,856.4	30.9	32.6	81.49	-459.3	1,115.8	200.9	147.2	53.72	3.740		
7,100.0	6,982.9	7,065.7	6,957.3	31.3	33.2	97.59	-456.5	1,135.5	220.7	166.2	54.55	4.046		
7,200.0	7,058.8	7,148.4	7,067.1	31.5	33.6	109.67	-431.8	1,156.3	246.8	191.6	55.24	4.468		
7,300.0	7,122.6	7,208.4	7,183.0	31.7	34.1	118.91	-377.8	1,177.4	275.3	221.3	53.95	5.103		
7,400.0	7,172.5	7,256.9	7,297.1	31.7	34.5	125.85	-285.4	1,197.2	301.8	251.7	50.18	6.015		
7,500.0	7,206.8	7,293.7	7,393.7	31.7	34.7	130.68	-149.0	1,212.2	322.1	277.5	44.64	7.216		
7,600.0	7,224.5	7,299.7	7,450.1	31.7	34.6	133.32	25.7	1,218.2	332.1	291.7	40.39	8.222		
7,700.0	7,227.0	7,292.4	7,457.0	31.6	34.6	133.91	168.0	1,215.5	331.7	291.4	40.23	8.244		
7,800.0	7,227.0	8,072.4	7,457.0	31.7	34.6	134.15	267.9	1,212.7	330.2	289.7	40.53	8.147		
7,900.0	7,227.0	8,172.4	7,457.0	31.8	34.7	134.40	367.9	1,209.8	328.8	287.8	41.00	8.018		
8,000.0	7,227.0	8,272.4	7,457.0	32.0	34.9	134.65	467.8	1,207.0	327.3	285.7	41.65	7.860		
8,100.0	7,227.0	8,372.3	7,457.0	32.5	35.2	134.90	567.7	1,204.1	325.9	283.4	42.45	7.678		
8,200.0	7,227.0	8,472.3	7,457.0	33.0	35.6	135.15	667.7	1,201.3	324.5	281.1	43.39	7.477		
8,300.0	7,227.0	8,572.3	7,457.0	33.7	36.2	135.40	767.6	1,198.4	323.0	278.6	44.47	7.264		
8,400.0	7,227.0	8,672.3	7,457.0	34.6	36.8	135.66	867.6	1,195.6	321.6	275.9	45.67	7.042		
8,500.0	7,227.0	8,772.3	7,457.0	35.5	37.6	135.92	967.5	1,192.7	320.2	273.2	46.99	6.815		
8,600.0	7,227.0	8,872.2	7,457.0	36.5	38.5	136.18	1,067.4	1,189.9	318.8	270.4	48.39	6.588		
8,700.0	7,227.0	8,972.2	7,457.0	37.5	39.4	136.44	1,167.4	1,187.0	317.4	267.5	49.89	6.362		
8,800.0	7,227.0	9,072.2	7,457.0	38.6	40.5	136.71	1,267.3	1,184.2	316.0	264.5	51.46	6.141		
8,900.0	7,227.0	9,172.2	7,457.0	39.8	41.5	136.98	1,367.3	1,181.3	314.6	261.5	53.10	5.926		
9,000.0	7,227.0	9,272.2	7,457.0	41.0	42.7	137.25	1,467.2	1,178.5	313.2	258.5	54.79	5.717		
9,100.0	7,227.0	9,372.1	7,457.0	42.2	43.9	137.52	1,567.1	1,175.6	311.9	255.3	56.53	5.516		
9,200.0	7,227.0	9,472.1	7,457.0	43.5	45.1	137.80	1,667.1	1,172.8	310.5	252.2	58.32	5.324		
9,300.0	7,227.0	9,572.1	7,457.0	44.8	46.3	138.08	1,767.0	1,169.9	309.2	249.0	60.14	5.140		
9,400.0	7,227.0	9,672.1	7,457.0	46.1	47.6	138.36	1,866.9	1,167.1	307.8	245.8	62.00	4.965		
9,500.0	7,227.0	9,772.1	7,457.0	47.5	49.0	138.64	1,966.9	1,164.2	306.5	242.6	63.88	4.798		
9,600.0	7,227.0	9,872.0	7,457.0	48.9	50.3	138.93	2,066.8	1,161.4	305.1	239.3	65.78	4.639		
9,700.0	7,227.0	9,972.0	7,457.0	50.3	51.7	139.21	2,166.8	1,158.5	303.8	236.1	67.69	4.488		
9,800.0	7,227.0	10,072.0	7,457.0	51.7	53.1	139.50	2,266.7	1,155.7	302.5	232.9	69.62	4.345		
9,900.0	7,227.0	10,172.0	7,457.0	53.2	54.5	139.80	2,366.6	1,152.8	301.2	229.6	71.56	4.209		
10,000.0	7,227.0	10,272.0	7,457.0	54.7	56.0	140.09	2,466.6	1,150.0	299.9	226.4	73.51	4.079		
10,100.0	7,227.0	10,371.9	7,457.0	56.2	57.4	140.39	2,566.5	1,147.1	298.6	223.1	75.45	3.957		
10,200.0	7,227.0	10,471.9	7,457.0	57.7	58.9	140.69	2,666.5	1,144.3	297.3	219.9	77.40	3.841		
10,300.0	7,227.0	10,571.9	7,457.0	59.2	60.4	140.99	2,766.4	1,141.4	296.0	216.6	79.35	3.730		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,227.0	10,671.9	7,457.0	60.7	61.9	141.30	2,866.3	1,138.6	294.7	213.4	81.30	3.625		
10,500.0	7,227.0	10,771.9	7,457.0	62.3	63.4	141.61	2,966.3	1,135.7	293.5	210.2	83.24	3.526		
10,600.0	7,227.0	10,871.8	7,457.0	63.8	65.0	141.92	3,066.2	1,132.9	292.2	207.0	85.17	3.431		
10,700.0	7,227.0	10,971.8	7,457.0	65.4	66.5	142.23	3,166.2	1,130.0	291.0	203.9	87.10	3.341		
10,800.0	7,227.0	11,071.8	7,457.0	67.0	68.1	142.55	3,266.1	1,127.2	289.7	200.7	89.01	3.255		
10,900.0	7,227.0	11,171.8	7,457.0	68.6	69.6	142.87	3,366.0	1,124.3	288.5	197.6	90.91	3.173		
11,000.0	7,227.0	11,271.8	7,457.0	70.2	71.2	143.19	3,466.0	1,121.5	287.3	194.5	92.81	3.096		
11,100.0	7,227.0	11,371.7	7,457.0	71.8	72.8	143.52	3,565.9	1,118.6	286.1	191.4	94.68	3.021		
11,200.0	7,227.0	11,471.7	7,457.0	73.4	74.4	143.84	3,665.8	1,115.7	284.9	188.3	96.55	2.951		
11,300.0	7,227.0	11,571.7	7,457.0	75.0	76.0	144.17	3,765.8	1,112.9	283.7	185.3	98.40	2.883		
11,400.0	7,227.0	11,671.7	7,457.0	76.6	77.6	144.51	3,865.7	1,110.0	282.5	182.3	100.23	2.819		
11,500.0	7,227.0	11,771.7	7,457.0	78.2	79.2	144.84	3,965.7	1,107.2	281.3	179.3	102.04	2.757		
11,600.0	7,227.0	11,871.6	7,457.0	79.9	80.8	145.18	4,065.6	1,104.3	280.2	176.3	103.84	2.698		
11,700.0	7,227.0	11,971.6	7,457.0	81.5	82.5	145.52	4,165.5	1,101.5	279.0	173.4	105.62	2.642		
11,800.0	7,227.0	12,071.6	7,457.0	83.2	84.1	145.87	4,265.5	1,098.6	277.9	170.5	107.38	2.588		
11,900.0	7,227.0	12,171.6	7,457.0	84.8	85.7	146.21	4,365.4	1,095.8	276.7	167.6	109.11	2.536		
12,000.0	7,227.0	12,271.5	7,457.0	86.5	87.4	146.56	4,465.4	1,092.9	275.6	164.8	110.83	2.487		
12,100.0	7,227.0	12,371.5	7,457.0	88.1	89.0	146.92	4,565.3	1,090.1	274.5	162.0	112.53	2.440		
12,200.0	7,227.0	12,471.5	7,457.0	89.8	90.7	147.27	4,665.2	1,087.2	273.4	159.2	114.20	2.394		
12,300.0	7,227.0	12,571.5	7,457.0	91.4	92.4	147.63	4,765.2	1,084.4	272.3	156.5	115.86	2.351		
12,400.0	7,227.0	12,671.5	7,457.0	93.1	94.0	147.99	4,865.1	1,081.5	271.2	153.8	117.49	2.309		
12,500.0	7,227.0	12,771.4	7,457.0	94.8	95.7	148.36	4,965.1	1,078.7	270.2	151.1	119.10	2.269		
12,600.0	7,227.0	12,871.4	7,457.0	96.5	97.4	148.72	5,065.0	1,075.8	269.1	148.4	120.68	2.230		
12,700.0	7,227.0	12,971.4	7,457.0	98.1	99.0	149.09	5,164.9	1,073.0	268.1	145.8	122.24	2.193		
12,800.0	7,227.0	13,071.4	7,457.0	99.8	100.7	149.47	5,264.9	1,070.1	267.0	143.3	123.78	2.157		
12,900.0	7,227.0	13,171.4	7,457.0	101.5	102.4	149.84	5,364.8	1,067.3	266.0	140.7	125.29	2.123		
13,000.0	7,227.0	13,271.3	7,457.0	103.2	104.1	150.22	5,464.7	1,064.4	265.0	138.2	126.78	2.090		
13,100.0	7,227.0	13,371.3	7,457.0	104.9	105.8	150.60	5,564.7	1,061.6	264.0	135.8	128.24	2.059		
13,200.0	7,227.0	13,471.3	7,457.0	106.6	107.5	150.99	5,664.6	1,058.7	263.0	133.3	129.68	2.028		
13,300.0	7,227.0	13,571.3	7,457.0	108.3	109.1	151.37	5,764.6	1,055.9	262.0	130.9	131.10	1.999		
13,400.0	7,227.0	13,671.3	7,457.0	110.0	110.8	151.76	5,864.5	1,053.0	261.1	128.6	132.49	1.971		
13,500.0	7,227.0	13,771.2	7,457.0	111.7	112.5	152.16	5,964.4	1,050.2	260.1	126.3	133.85	1.943		
13,600.0	7,227.0	13,869.4	7,457.0	113.4	114.2	152.35	6,062.6	1,048.4	259.6	124.0	135.65	1.914		
13,700.0	7,227.0	13,969.4	7,457.0	115.1	115.9	152.46	6,162.6	1,047.0	259.4	121.9	137.54	1.886		
13,800.0	7,227.0	14,069.4	7,457.0	116.8	117.6	152.56	6,262.6	1,045.6	259.2	119.7	139.42	1.859		
13,900.0	7,227.0	14,169.4	7,457.0	118.5	119.3	152.66	6,362.6	1,044.3	258.9	117.6	141.30	1.832		
14,000.0	7,227.0	14,269.4	7,457.0	120.2	121.0	152.77	6,462.6	1,042.9	258.7	115.5	143.17	1.807		
14,100.0	7,227.0	14,369.4	7,457.0	121.9	122.7	152.87	6,562.6	1,041.6	258.4	113.4	145.03	1.782		
14,200.0	7,227.0	14,469.4	7,457.0	123.6	124.4	152.98	6,662.5	1,040.2	258.2	111.3	146.90	1.758		
14,300.0	7,227.0	14,569.4	7,457.0	125.3	126.1	153.09	6,762.5	1,038.8	257.9	109.2	148.75	1.734		
14,400.0	7,227.0	14,669.4	7,457.0	127.1	127.8	153.19	6,862.5	1,037.5	257.7	107.1	150.60	1.711		
14,500.0	7,227.0	14,769.4	7,457.0	128.8	129.6	153.30	6,962.5	1,036.1	257.5	105.0	152.45	1.689		
14,600.0	7,227.0	14,869.4	7,457.0	130.5	131.3	153.40	7,062.5	1,034.8	257.2	102.9	154.28	1.667		
14,700.0	7,227.0	14,969.4	7,457.0	132.2	133.0	153.51	7,162.5	1,033.4	257.0	100.9	156.12	1.646		
14,800.0	7,227.0	15,069.4	7,457.0	133.9	134.7	153.62	7,262.5	1,032.0	256.7	98.8	157.94	1.626		
14,900.0	7,227.0	15,169.4	7,457.0	135.7	136.4	153.72	7,362.5	1,030.7	256.5	96.7	159.77	1.606		
15,000.0	7,227.0	15,269.4	7,457.0	137.4	138.1	153.83	7,462.5	1,029.3	256.3	94.7	161.58	1.586		
15,100.0	7,227.0	15,369.4	7,457.0	139.1	139.9	153.94	7,562.5	1,028.0	256.0	92.6	163.39	1.567		
15,200.0	7,227.0	15,469.4	7,457.0	140.8	141.6	154.04	7,662.4	1,026.6	255.8	90.6	165.19	1.549		
15,300.0	7,227.0	15,569.4	7,457.0	142.5	143.3	154.15	7,762.4	1,025.3	255.6	88.6	166.99	1.530		
15,400.0	7,227.0	15,669.4	7,457.0	144.3	145.0	154.26	7,862.4	1,023.9	255.3	86.6	168.78	1.513		
15,500.0	7,227.0	15,769.4	7,457.0	146.0	146.7	154.37	7,962.4	1,022.5	255.1	84.5	170.57	1.496 Level 3		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-3NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,600.0	7,227.0	15,869.4	7,457.0	147.7	148.5	154.47	8,062.4	1,021.2	254.9	82.5	172.35	1.479	Level 3	
15,700.0	7,227.0	15,969.4	7,457.0	149.5	150.2	154.58	8,162.4	1,019.8	254.7	80.5	174.12	1.463	Level 3	
15,800.0	7,227.0	16,069.4	7,457.0	151.2	151.9	154.69	8,262.4	1,018.5	254.4	78.5	175.89	1.447	Level 3	
15,900.0	7,227.0	16,169.4	7,457.0	152.9	153.7	154.80	8,362.4	1,017.1	254.2	76.5	177.65	1.431	Level 3	
16,000.0	7,227.0	16,269.4	7,457.0	154.7	155.4	154.91	8,462.4	1,015.7	254.0	74.6	179.40	1.416	Level 3	
16,100.0	7,227.0	16,369.4	7,457.0	156.4	157.1	155.02	8,562.3	1,014.4	253.7	72.6	181.15	1.401	Level 3	
16,200.0	7,227.0	16,469.4	7,457.0	158.1	158.8	155.13	8,662.3	1,013.0	253.5	70.6	182.89	1.386	Level 3	
16,300.0	7,227.0	16,569.4	7,457.0	159.9	160.6	155.23	8,762.3	1,011.7	253.3	68.7	184.63	1.372	Level 3	
16,400.0	7,227.0	16,669.4	7,457.0	161.6	162.3	155.34	8,862.3	1,010.3	253.1	66.7	186.36	1.358	Level 3	
16,500.0	7,227.0	16,769.4	7,457.0	163.3	164.0	155.45	8,962.3	1,008.9	252.9	64.8	188.08	1.344	Level 3	
16,600.0	7,227.0	16,869.4	7,457.0	165.1	165.8	155.56	9,062.3	1,007.6	252.6	62.8	189.80	1.331	Level 3	
16,700.0	7,227.0	16,969.4	7,457.0	166.8	167.5	155.67	9,162.3	1,006.2	252.4	60.9	191.51	1.318	Level 3	
16,800.0	7,227.0	17,069.4	7,457.0	168.5	169.3	155.78	9,262.3	1,004.9	252.2	59.0	193.21	1.305	Level 3	
16,900.0	7,227.0	17,169.4	7,457.0	170.3	171.0	155.89	9,362.3	1,003.5	252.0	57.1	194.91	1.293	Level 3	
17,000.0	7,227.0	17,269.4	7,457.0	172.0	172.7	156.01	9,462.2	1,002.1	251.8	55.2	196.60	1.281	Level 3	
17,100.0	7,227.0	17,369.4	7,457.0	173.7	174.5	156.12	9,562.2	1,000.8	251.5	53.3	198.29	1.269	Level 3	
17,200.0	7,227.0	17,469.4	7,457.0	175.5	176.2	156.23	9,662.2	999.4	251.3	51.4	199.96	1.257	Level 3	
17,300.0	7,227.0	17,569.4	7,457.0	177.2	177.9	156.34	9,762.2	998.1	251.1	49.5	201.64	1.245	Level 2	
17,400.0	7,227.0	17,669.4	7,457.0	179.0	179.7	156.45	9,862.2	996.7	250.9	47.6	203.30	1.234	Level 2	
17,451.3	7,227.0	17,720.7	7,457.0	179.9	180.6	156.51	9,913.5	996.0	250.8	46.6	204.15	1.228	Level 2, SF	

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	89.77	0.2	45.0	45.0					
100.0	100.0	100.0	100.0	0.4	0.0	89.77	0.2	45.0	45.0	44.7	0.28	162.480		
200.0	200.0	200.0	200.0	1.0	0.0	89.77	0.2	45.0	45.0	44.2	0.80	56.408		
300.0	300.0	300.0	300.0	1.5	0.0	89.77	0.2	45.0	45.0	43.8	1.22	36.751		
400.0	400.0	400.0	400.0	1.9	0.0	89.77	0.2	45.0	45.0	43.4	1.62	27.804		
500.0	500.0	500.0	500.0	2.3	0.0	89.77	0.2	45.0	45.0	43.0	2.00	22.509		
600.0	600.0	600.0	600.0	2.7	0.0	89.77	0.2	45.0	45.0	42.6	2.37	18.963		
700.0	700.0	700.0	700.0	3.1	0.0	89.77	0.2	45.0	45.0	42.2	2.74	16.406		
800.0	800.0	800.0	800.0	3.5	0.0	89.77	0.2	45.0	45.0	41.9	3.11	14.469 CC, ES		
900.0	900.0	898.5	898.5	3.9	0.0	90.34	-0.3	46.6	46.6	43.2	3.46	13.460		
1,000.0	1,000.0	996.7	996.6	4.2	0.0	91.84	-1.7	51.5	51.6	47.8	3.80	13.575		
1,100.0	1,100.0	1,094.5	1,094.0	4.6	0.0	93.79	-3.9	59.5	60.0	55.8	4.13	14.528		
1,200.0	1,200.0	1,191.8	1,190.6	4.9	0.0	-22.15	-7.1	70.7	70.1	65.5	4.58	15.316		
1,300.0	1,299.8	1,288.8	1,286.4	5.3	0.0	-21.49	-11.2	85.0	80.3	75.1	5.22	15.391		
1,400.0	1,399.5	1,385.4	1,381.3	6.0	0.0	-21.40	-16.1	102.3	90.7	84.9	5.81	15.604		
1,500.0	1,498.7	1,481.7	1,475.3	6.7	0.0	-21.70	-21.8	122.6	101.1	94.7	6.35	15.909		
1,600.0	1,597.5	1,577.6	1,568.1	7.4	0.0	-22.27	-28.4	145.9	111.5	104.7	6.85	16.277		
1,700.0	1,695.8	1,676.3	1,663.0	7.7	0.0	-23.09	-35.8	171.9	121.7	114.6	7.12	17.091		
1,800.0	1,794.0	1,775.8	1,758.6	8.0	0.0	-23.83	-43.2	198.2	131.8	124.4	7.40	17.807		
1,900.0	1,892.3	1,875.3	1,854.3	8.3	0.0	-24.47	-50.7	224.6	142.0	134.3	7.70	18.438		
2,000.0	1,990.6	1,974.7	1,949.9	8.6	0.0	-25.03	-58.1	250.9	152.1	144.1	8.01	18.999		
2,100.0	2,088.8	2,074.2	2,045.6	8.9	0.0	-25.52	-65.6	277.2	162.3	153.9	8.32	19.496		
2,200.0	2,187.1	2,173.7	2,141.2	9.2	0.0	-25.95	-73.1	303.5	172.4	163.8	8.65	19.939		
2,300.0	2,285.3	2,273.1	2,236.9	9.6	0.0	-26.33	-80.5	329.8	182.6	173.6	8.98	20.333		
2,400.0	2,383.6	2,372.6	2,332.5	9.9	0.0	-26.67	-88.0	356.1	192.8	183.5	9.32	20.685		
2,500.0	2,481.9	2,472.1	2,428.1	10.3	0.0	-26.97	-95.4	382.4	203.0	193.3	9.67	20.999		
2,600.0	2,580.1	2,571.6	2,523.8	10.7	0.0	-27.25	-102.9	408.7	213.2	203.2	10.02	21.281		
2,700.0	2,678.4	2,671.0	2,619.4	11.1	0.0	-27.50	-110.3	435.1	223.4	213.0	10.37	21.533		
2,800.0	2,776.6	2,770.5	2,715.1	11.5	0.0	-27.73	-117.8	461.4	233.6	222.8	10.73	21.761		
2,900.0	2,874.9	2,870.0	2,810.7	11.9	0.0	-27.94	-125.2	487.7	243.8	232.7	11.10	21.967		
3,000.0	2,973.2	2,969.5	2,906.3	12.3	0.0	-28.14	-132.7	514.0	254.0	242.5	11.47	22.152		
3,100.0	3,071.4	3,068.9	3,002.0	12.8	0.0	-28.32	-140.1	540.3	264.2	252.4	11.84	22.321		
3,200.0	3,169.7	3,168.4	3,097.6	13.2	0.0	-28.48	-147.6	566.6	274.4	262.2	12.21	22.474		
3,300.0	3,268.0	3,267.9	3,193.3	13.6	0.0	-28.64	-155.0	592.9	284.6	272.0	12.59	22.613		
3,400.0	3,366.2	3,367.4	3,288.9	14.1	0.0	-28.78	-162.5	619.2	294.8	281.9	12.97	22.740		
3,500.0	3,464.5	3,466.8	3,384.5	14.6	0.0	-28.91	-170.0	645.6	305.1	291.7	13.35	22.857		
3,600.0	3,562.7	3,566.3	3,480.2	15.0	0.0	-29.04	-177.4	671.9	315.3	301.5	13.73	22.963		
3,700.0	3,661.0	3,665.8	3,575.8	15.5	0.0	-29.15	-184.9	698.2	325.5	311.4	14.11	23.061		
3,800.0	3,759.3	3,765.3	3,671.5	15.9	0.0	-29.26	-192.3	724.5	335.7	321.2	14.50	23.151		
3,900.0	3,857.5	3,864.7	3,767.1	16.4	0.0	-29.37	-199.8	750.8	345.9	331.0	14.89	23.234		
4,000.0	3,955.8	3,964.2	3,862.7	16.9	0.0	-29.47	-207.2	777.1	356.2	340.9	15.28	23.311		
4,100.0	4,054.1	4,063.7	3,958.4	17.3	0.0	-29.56	-214.7	803.4	366.4	350.7	15.67	23.382		
4,200.0	4,152.3	4,163.2	4,054.0	17.8	0.0	-29.64	-222.1	829.7	376.6	360.6	16.06	23.448		
4,300.0	4,250.6	4,262.6	4,149.7	18.2	0.0	-29.73	-229.6	856.1	386.8	370.4	16.46	23.509		
4,400.0	4,348.8	4,362.1	4,245.3	18.7	0.0	-29.80	-237.0	882.4	397.1	380.2	16.85	23.566		
4,500.0	4,447.1	4,461.6	4,341.0	19.2	0.0	-29.88	-244.5	908.7	407.3	390.1	17.24	23.618		
4,600.0	4,545.4	4,561.1	4,436.6	19.7	0.0	-29.95	-251.9	935.0	417.5	399.9	17.64	23.668		
4,700.0	4,643.6	4,660.5	4,532.2	20.1	0.0	-30.02	-259.4	961.3	427.8	409.7	18.04	23.714		
4,800.0	4,741.9	4,760.0	4,627.9	20.6	0.0	-30.08	-266.9	987.6	438.0	419.5	18.44	23.757		
4,900.0	4,840.2	4,859.5	4,723.5	21.1	0.0	-30.14	-274.3	1,013.9	448.2	429.4	18.83	23.797		
5,000.0	4,938.4	4,959.0	4,819.2	21.5	0.0	-30.20	-281.8	1,040.2	458.4	439.2	19.23	23.835		
5,100.0	5,036.7	5,058.4	4,914.8	22.0	0.0	-30.26	-289.2	1,066.6	468.7	449.0	19.63	23.870		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-4CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,157.9	5,010.4	22.5	0.0	-30.31	-296.7	1,092.9	478.9	458.9	20.04	23.903		
5,300.0	5,233.2	5,257.4	5,106.1	23.0	0.0	-30.36	-304.1	1,119.2	489.1	468.7	20.44	23.935		
5,400.0	5,331.5	5,356.8	5,201.7	23.4	0.0	-30.41	-311.6	1,145.5	499.4	478.5	20.84	23.964		
5,500.0	5,429.7	5,456.3	5,297.4	23.9	0.0	-30.46	-319.0	1,171.8	509.6	488.4	21.24	23.992		
5,600.0	5,528.0	5,555.8	5,393.0	24.4	0.0	-30.50	-326.5	1,198.1	519.8	498.2	21.64	24.018		
5,700.0	5,626.2	5,655.3	5,488.6	24.9	0.0	-30.55	-333.9	1,224.4	530.1	508.0	22.05	24.043		
5,800.0	5,724.5	5,754.7	5,584.3	25.3	0.0	-30.59	-341.4	1,250.7	540.3	517.9	22.45	24.066		
5,900.0	5,822.8	5,854.2	5,679.9	25.8	0.0	-30.63	-348.9	1,277.1	550.5	527.7	22.86	24.089		
6,000.0	5,921.0	5,953.7	5,775.6	26.3	0.0	-30.67	-356.3	1,303.4	560.8	537.5	23.26	24.109		
6,100.0	6,019.3	6,053.2	5,871.2	26.8	0.0	-30.70	-363.8	1,329.7	571.0	547.4	23.66	24.129		
6,200.0	6,117.6	6,152.6	5,966.9	27.2	0.0	-30.74	-371.2	1,356.0	581.3	557.2	24.07	24.148		
6,300.0	6,215.8	6,252.1	6,062.5	27.7	0.0	-30.78	-378.7	1,382.3	591.5	567.0	24.48	24.166		
6,400.0	6,314.1	6,351.6	6,158.1	28.2	0.0	-30.81	-386.1	1,408.6	601.7	576.8	24.88	24.183		
6,500.0	6,412.3	6,451.1	6,253.8	28.7	0.0	-30.84	-393.6	1,434.9	612.0	586.7	25.29	24.199		
6,600.0	6,510.6	6,550.5	6,349.4	29.1	0.0	-30.87	-401.0	1,461.2	622.2	596.5	25.69	24.215		
6,700.0	6,608.9	6,650.0	6,445.1	29.6	0.0	-30.90	-408.5	1,487.6	632.4	606.3	26.10	24.229		
6,800.0	6,707.4	6,749.1	6,540.3	30.1	0.0	22.10	-415.9	1,513.8	642.2	615.8	26.44	24.291		
6,900.0	6,804.5	6,845.5	6,633.0	30.5	0.0	54.06	-423.1	1,539.3	651.4	624.5	26.85	24.255		
7,000.0	6,897.3	6,936.2	6,720.2	30.9	0.0	67.92	-429.9	1,563.3	661.5	634.4	27.13	24.386		
7,100.0	6,982.9	7,018.5	6,799.4	31.3	0.0	75.95	-436.1	1,585.0	675.1	647.9	27.23	24.793		
7,200.0	7,058.8	7,089.9	6,868.0	31.5	0.0	81.09	-441.4	1,603.9	695.0	667.6	27.33	25.428		
7,300.0	7,122.6	7,148.2	6,924.0	31.7	0.0	83.81	-445.8	1,619.3	723.5	695.9	27.57	26.245		
7,400.0	7,172.5	7,191.7	6,965.8	31.7	0.0	83.93	-449.1	1,630.8	762.1	734.1	28.00	27.215		
7,500.0	7,206.8	7,218.9	6,992.1	31.7	0.0	81.16	-451.1	1,638.0	810.8	782.1	28.62	28.325		
7,600.0	7,224.5	7,229.2	7,001.9	31.7	0.0	75.34	-451.9	1,640.8	867.9	838.6	29.35	29.571		
7,700.0	7,227.0	8,243.0	7,617.0	31.6	0.0	115.23	168.0	1,804.4	915.1	890.6	24.48	37.385		
7,800.0	7,227.0	8,343.0	7,617.0	31.7	0.0	115.23	268.0	1,803.6	915.1	890.3	24.77	36.948		
7,900.0	7,227.0	8,443.0	7,617.0	31.8	0.0	115.23	368.0	1,802.8	915.1	889.9	25.16	36.371		
8,000.0	7,227.0	8,543.0	7,617.0	32.0	0.0	115.23	468.0	1,802.0	915.1	889.4	25.65	35.675		
8,100.0	7,227.0	8,643.0	7,617.0	32.5	0.0	115.23	568.0	1,801.1	915.1	888.9	26.23	34.882		
8,200.0	7,227.0	8,743.0	7,617.0	33.0	0.0	115.23	668.0	1,800.3	915.1	888.2	26.90	34.014		
8,300.0	7,227.0	8,843.0	7,617.0	33.7	0.0	115.23	768.0	1,799.5	915.1	887.4	27.65	33.092		
8,400.0	7,227.0	8,943.0	7,617.0	34.6	0.0	115.23	868.0	1,798.7	915.1	886.6	28.48	32.135		
8,500.0	7,227.0	9,043.0	7,617.0	35.5	0.0	115.23	968.0	1,797.8	915.1	885.7	29.37	31.159		
8,600.0	7,227.0	9,143.0	7,617.0	36.5	0.0	115.23	1,068.0	1,797.0	915.1	884.8	30.32	30.180		
8,700.0	7,227.0	9,243.0	7,617.0	37.5	0.0	115.23	1,168.0	1,796.2	915.1	883.8	31.33	29.208		
8,800.0	7,227.0	9,343.0	7,617.0	38.6	0.0	115.23	1,268.0	1,795.4	915.1	882.7	32.39	28.253		
8,900.0	7,227.0	9,443.0	7,617.0	39.8	0.0	115.23	1,368.0	1,794.5	915.1	881.6	33.49	27.320		
9,000.0	7,227.0	9,543.0	7,617.0	41.0	0.0	115.23	1,468.0	1,793.7	915.1	880.4	34.64	26.415		
9,100.0	7,227.0	9,643.0	7,617.0	42.2	0.0	115.23	1,568.0	1,792.9	915.1	879.3	35.83	25.542		
9,200.0	7,227.0	9,743.0	7,617.0	43.5	0.0	115.23	1,668.0	1,792.0	915.1	878.0	37.05	24.702		
9,300.0	7,227.0	9,843.0	7,617.0	44.8	0.0	115.23	1,768.0	1,791.2	915.1	876.8	38.30	23.896		
9,400.0	7,227.0	9,943.0	7,617.0	46.1	0.0	115.23	1,868.0	1,790.4	915.1	875.5	39.57	23.124		
9,500.0	7,227.0	10,043.0	7,617.0	47.5	0.0	115.23	1,968.0	1,789.6	915.1	874.2	40.87	22.387		
9,600.0	7,227.0	10,143.0	7,617.0	48.9	0.0	115.23	2,068.0	1,788.7	915.1	872.9	42.20	21.684		
9,700.0	7,227.0	10,243.0	7,617.0	50.3	0.0	115.23	2,168.0	1,787.9	915.1	871.5	43.55	21.014		
9,800.0	7,227.0	10,343.0	7,617.0	51.7	0.0	115.23	2,267.9	1,787.1	915.1	870.2	44.91	20.375		
9,900.0	7,227.0	10,443.0	7,617.0	53.2	0.0	115.23	2,367.9	1,786.3	915.1	868.8	46.29	19.767		
10,000.0	7,227.0	10,543.0	7,617.0	54.7	0.0	115.23	2,467.9	1,785.4	915.1	867.4	47.69	19.187		
10,100.0	7,227.0	10,643.0	7,617.0	56.2	0.0	115.23	2,567.9	1,784.6	915.1	866.0	49.10	18.636		
10,200.0	7,227.0	10,743.0	7,617.0	57.7	0.0	115.23	2,667.9	1,783.8	915.1	864.6	50.53	18.110		
10,300.0	7,227.0	10,843.0	7,617.0	59.2	0.0	115.23	2,767.9	1,782.9	915.1	863.1	51.97	17.609		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-4CDH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,227.0	10,943.0	7,617.0	60.7	0.0	115.23	2,867.9	1,782.1	915.1	861.7	53.42	17.131		
10,500.0	7,227.0	11,043.0	7,617.0	62.3	0.0	115.23	2,967.9	1,781.3	915.1	860.2	54.88	16.676		
10,600.0	7,227.0	11,143.0	7,617.0	63.8	0.0	115.23	3,067.9	1,780.5	915.1	858.7	56.34	16.241		
10,700.0	7,227.0	11,243.0	7,617.0	65.4	0.0	115.23	3,167.9	1,779.6	915.1	857.3	57.82	15.826		
10,800.0	7,227.0	11,343.0	7,617.0	67.0	0.0	115.23	3,267.9	1,778.8	915.1	855.8	59.31	15.430		
10,900.0	7,227.0	11,443.0	7,617.0	68.6	0.0	115.23	3,367.9	1,778.0	915.1	854.3	60.80	15.051		
11,000.0	7,227.0	11,543.0	7,617.0	70.2	0.0	115.23	3,467.9	1,777.2	915.1	852.8	62.30	14.688		
11,100.0	7,227.0	11,643.0	7,617.0	71.8	0.0	115.23	3,567.9	1,776.3	915.1	851.3	63.81	14.342		
11,200.0	7,227.0	11,743.0	7,617.0	73.4	0.0	115.23	3,667.9	1,775.5	915.1	849.8	65.32	14.010		
11,300.0	7,227.0	11,843.0	7,617.0	75.0	0.0	115.23	3,767.9	1,774.7	915.1	848.2	66.84	13.691		
11,400.0	7,227.0	11,943.0	7,617.0	76.6	0.0	115.23	3,867.9	1,773.9	915.1	846.7	68.36	13.386		
11,500.0	7,227.0	12,043.0	7,617.0	78.2	0.0	115.23	3,967.9	1,773.0	915.1	845.2	69.89	13.094		
11,600.0	7,227.0	12,143.0	7,617.0	79.9	0.0	115.23	4,067.9	1,772.2	915.1	843.7	71.42	12.813		
11,700.0	7,227.0	12,243.0	7,617.0	81.5	0.0	115.23	4,167.9	1,771.4	915.1	842.1	72.96	12.543		
11,800.0	7,227.0	12,343.0	7,617.0	83.2	0.0	115.23	4,267.9	1,770.5	915.1	840.6	74.50	12.283		
11,900.0	7,227.0	12,443.0	7,617.0	84.8	0.0	115.23	4,367.9	1,769.7	915.1	839.0	76.04	12.034		
12,000.0	7,227.0	12,543.0	7,617.0	86.5	0.0	115.23	4,467.9	1,768.9	915.1	837.5	77.59	11.794		
12,100.0	7,227.0	12,643.0	7,617.0	88.1	0.0	115.23	4,567.9	1,768.1	915.1	835.9	79.14	11.563		
12,200.0	7,227.0	12,743.0	7,617.0	89.8	0.0	115.23	4,667.9	1,767.2	915.1	834.4	80.70	11.340		
12,300.0	7,227.0	12,843.0	7,617.0	91.4	0.0	115.23	4,767.9	1,766.4	915.1	832.8	82.25	11.125		
12,400.0	7,227.0	12,943.0	7,617.0	93.1	0.0	115.23	4,867.9	1,765.6	915.1	831.3	83.81	10.918		
12,500.0	7,227.0	13,043.0	7,617.0	94.8	0.0	115.23	4,967.9	1,764.8	915.1	829.7	85.38	10.718		
12,600.0	7,227.0	13,143.0	7,617.0	96.5	0.0	115.23	5,067.9	1,763.9	915.1	828.1	86.94	10.525		
12,700.0	7,227.0	13,243.0	7,617.0	98.1	0.0	115.23	5,167.8	1,763.1	915.1	826.6	88.51	10.339		
12,800.0	7,227.0	13,343.0	7,617.0	99.8	0.0	115.23	5,267.8	1,762.3	915.1	825.0	90.08	10.158		
12,900.0	7,227.0	13,443.0	7,617.0	101.5	0.0	115.23	5,367.8	1,761.4	915.1	823.4	91.65	9.984		
13,000.0	7,227.0	13,543.0	7,617.0	103.2	0.0	115.23	5,467.8	1,760.6	915.1	821.8	93.23	9.815		
13,100.0	7,227.0	13,643.0	7,617.0	104.9	0.0	115.23	5,567.8	1,759.8	915.1	820.3	94.80	9.652		
13,200.0	7,227.0	13,743.0	7,617.0	106.6	0.0	115.23	5,667.8	1,759.0	915.1	818.7	96.38	9.494		
13,300.0	7,227.0	13,843.0	7,617.0	108.3	0.0	115.23	5,767.8	1,758.1	915.1	817.1	97.96	9.341		
13,400.0	7,227.0	13,943.0	7,617.0	110.0	0.0	115.23	5,867.8	1,757.3	915.1	815.5	99.54	9.193		
13,500.0	7,227.0	14,043.0	7,617.0	111.7	0.0	115.23	5,967.8	1,756.5	915.1	813.9	101.13	9.049		
13,600.0	7,227.0	14,143.0	7,617.0	113.4	0.0	115.23	6,067.8	1,755.7	915.1	812.4	102.71	8.909		
13,700.0	7,227.0	14,243.0	7,617.0	115.1	0.0	115.23	6,167.8	1,754.8	915.1	810.8	104.30	8.774		
13,800.0	7,227.0	14,343.0	7,617.0	116.8	0.0	115.23	6,267.8	1,754.0	915.1	809.2	105.89	8.642		
13,900.0	7,227.0	14,443.0	7,617.0	118.5	0.0	115.23	6,367.8	1,753.2	915.1	807.6	107.47	8.514		
14,000.0	7,227.0	14,543.0	7,617.0	120.2	0.0	115.23	6,467.8	1,752.4	915.1	806.0	109.06	8.390		
14,100.0	7,227.0	14,643.0	7,617.0	121.9	0.0	115.23	6,567.8	1,751.5	915.1	804.4	110.66	8.270		
14,200.0	7,227.0	14,743.0	7,617.0	123.6	0.0	115.23	6,667.8	1,750.7	915.1	802.8	112.25	8.152		
14,300.0	7,227.0	14,843.0	7,617.0	125.3	0.0	115.23	6,767.8	1,749.9	915.1	801.2	113.84	8.038		
14,400.0	7,227.0	14,943.0	7,617.0	127.1	0.0	115.23	6,867.8	1,749.0	915.1	799.6	115.44	7.927		
14,500.0	7,227.0	15,043.0	7,617.0	128.8	0.0	115.23	6,967.8	1,748.2	915.1	798.0	117.03	7.819		
14,600.0	7,227.0	15,143.0	7,617.0	130.5	0.0	115.23	7,067.8	1,747.4	915.1	796.4	118.63	7.714		
14,700.0	7,227.0	15,243.0	7,617.0	132.2	0.0	115.23	7,167.8	1,746.6	915.1	794.8	120.23	7.611		
14,800.0	7,227.0	15,343.0	7,617.0	133.9	0.0	115.23	7,267.8	1,745.7	915.1	793.2	121.82	7.511		
14,900.0	7,227.0	15,443.0	7,617.0	135.7	0.0	115.23	7,367.8	1,744.9	915.1	791.6	123.42	7.414		
15,000.0	7,227.0	15,543.0	7,617.0	137.4	0.0	115.23	7,467.8	1,744.1	915.1	790.0	125.02	7.319		
15,100.0	7,227.0	15,643.0	7,617.0	139.1	0.0	115.23	7,567.8	1,743.3	915.1	788.4	126.62	7.227		
15,200.0	7,227.0	15,743.0	7,617.0	140.8	0.0	115.23	7,667.8	1,742.4	915.1	786.8	128.23	7.136		
15,300.0	7,227.0	15,843.0	7,617.0	142.5	0.0	115.23	7,767.8	1,741.6	915.1	785.2	129.83	7.048		
15,400.0	7,227.0	15,943.0	7,617.0	144.3	0.0	115.23	7,867.8	1,740.8	915.1	783.6	131.43	6.962		
15,500.0	7,227.0	16,043.0	7,617.0	146.0	0.0	115.23	7,967.8	1,739.9	915.1	782.0	133.04	6.878		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		
15,600.0	7,227.0	16,143.0	7,617.0	147.7	0.0	115.23	8,067.7	1,739.1	915.1	780.4	134.64	6.796		
15,700.0	7,227.0	16,243.0	7,617.0	149.5	0.0	115.23	8,167.7	1,738.3	915.1	778.8	136.24	6.716		
15,800.0	7,227.0	16,343.0	7,617.0	151.2	0.0	115.23	8,267.7	1,737.5	915.1	777.2	137.85	6.638		
15,900.0	7,227.0	16,443.0	7,617.0	152.9	0.0	115.23	8,367.7	1,736.6	915.1	775.6	139.46	6.562		
16,000.0	7,227.0	16,543.0	7,617.0	154.7	0.0	115.23	8,467.7	1,735.8	915.1	774.0	141.06	6.487		
16,100.0	7,227.0	16,643.0	7,617.0	156.4	0.0	115.23	8,567.7	1,735.0	915.1	772.4	142.67	6.414		
16,200.0	7,227.0	16,743.0	7,617.0	158.1	0.0	115.23	8,667.7	1,734.2	915.1	770.8	144.28	6.342		
16,300.0	7,227.0	16,843.0	7,617.0	159.9	0.0	115.23	8,767.7	1,733.3	915.1	769.2	145.89	6.272		
16,400.0	7,227.0	16,943.0	7,617.0	161.6	0.0	115.23	8,867.7	1,732.5	915.1	767.6	147.50	6.204		
16,500.0	7,227.0	17,043.0	7,617.0	163.3	0.0	115.23	8,967.7	1,731.7	915.1	766.0	149.11	6.137		
16,600.0	7,227.0	17,143.0	7,617.0	165.1	0.0	115.23	9,067.7	1,730.8	915.1	764.4	150.72	6.071		
16,700.0	7,227.0	17,243.0	7,617.0	166.8	0.0	115.23	9,167.7	1,730.0	915.1	762.7	152.33	6.007		
16,800.0	7,227.0	17,343.0	7,617.0	168.5	0.0	115.23	9,267.7	1,729.2	915.1	761.1	153.94	5.944		
16,900.0	7,227.0	17,443.0	7,617.0	170.3	0.0	115.23	9,367.7	1,728.4	915.1	759.5	155.55	5.883		
17,000.0	7,227.0	17,543.0	7,617.0	172.0	0.0	115.23	9,467.7	1,727.5	915.1	757.9	157.16	5.823		
17,100.0	7,227.0	17,643.0	7,617.0	173.7	0.0	115.23	9,567.7	1,726.7	915.1	756.3	158.77	5.763		
17,200.0	7,227.0	17,743.0	7,617.0	175.5	0.0	115.23	9,667.7	1,725.9	915.1	754.7	160.39	5.705		
17,300.0	7,227.0	17,843.0	7,617.0	177.2	0.0	115.23	9,767.7	1,725.1	915.1	753.1	162.00	5.649		
17,400.0	7,227.0	17,943.0	7,617.0	179.0	0.0	115.23	9,867.7	1,724.2	915.1	751.5	163.61	5.593		
17,451.3	7,227.0	17,994.4	7,617.0	179.9	0.0	115.23	9,919.0	1,723.8	915.1	750.6	164.44	5.565 SF		

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	89.70	0.5	89.9	89.9					
100.0	100.0	100.0	100.0	0.4	0.0	89.70	0.5	89.9	89.9	89.7	0.28	324.691		
200.0	200.0	200.0	200.0	1.0	0.0	89.70	0.5	89.9	89.9	89.1	0.80	112.736		
300.0	300.0	300.0	300.0	1.5	0.0	89.70	0.5	89.9	89.9	88.7	1.22	73.458		
400.0	400.0	400.0	400.0	1.9	0.0	89.70	0.5	89.9	89.9	88.3	1.62	55.580		
500.0	500.0	500.0	500.0	2.3	0.0	89.70	0.5	89.9	89.9	87.9	2.00	44.997 CC, ES		
600.0	600.0	597.0	597.0	2.7	0.0	89.91	0.1	91.6	91.6	89.2	2.37	38.654		
700.0	700.0	693.7	693.6	3.1	0.0	90.51	-0.9	96.4	96.6	93.8	2.73	35.378		
800.0	800.0	790.1	789.6	3.5	0.0	91.39	-2.5	104.3	104.9	101.8	3.08	34.049		
900.0	900.0	885.7	884.6	3.9	0.0	92.40	-4.8	115.3	116.5	113.0	3.42	34.041		
1,000.0	1,000.0	980.5	978.3	4.2	0.0	93.43	-7.8	129.3	131.3	127.6	3.75	34.980		
1,100.0	1,100.0	1,074.3	1,070.5	4.6	0.0	94.41	-11.3	146.1	149.5	145.4	4.08	36.623		
1,200.0	1,200.0	1,167.2	1,161.2	4.9	0.0	-22.21	-15.4	165.6	169.3	164.7	4.52	37.416		
1,300.0	1,299.8	1,259.5	1,250.6	5.3	0.0	-21.81	-20.0	187.9	189.0	183.9	5.14	36.747		
1,400.0	1,399.5	1,351.2	1,338.7	6.0	0.0	-21.71	-25.2	212.8	208.7	203.0	5.71	36.561		
1,500.0	1,498.7	1,442.3	1,425.4	6.7	0.0	-21.83	-31.0	240.3	228.4	222.1	6.23	36.663		
1,600.0	1,597.5	1,532.9	1,510.7	7.4	0.0	-22.11	-37.2	270.2	247.9	241.2	6.71	36.947		
1,700.0	1,695.8	1,629.5	1,600.8	7.7	0.0	-22.61	-44.3	304.1	267.1	260.1	6.98	38.273		
1,800.0	1,794.0	1,727.6	1,692.4	8.0	0.0	-23.12	-51.5	338.5	286.2	278.9	7.26	39.415		
1,900.0	1,892.3	1,825.7	1,784.0	8.3	0.0	-23.56	-58.7	373.0	305.3	297.7	7.56	40.403		
2,000.0	1,990.6	1,923.9	1,875.6	8.6	0.0	-23.96	-65.9	407.4	324.4	316.5	7.86	41.267		
2,100.0	2,088.8	2,022.0	1,967.2	8.9	0.0	-24.30	-73.1	441.9	343.5	335.3	8.17	42.022		
2,200.0	2,187.1	2,120.1	2,058.8	9.2	0.0	-24.61	-80.3	476.3	362.6	354.1	8.50	42.683		
2,300.0	2,285.3	2,218.3	2,150.5	9.6	0.0	-24.89	-87.6	510.8	381.8	372.9	8.82	43.263		
2,400.0	2,383.6	2,316.4	2,242.1	9.9	0.0	-25.15	-94.8	545.2	400.9	391.7	9.16	43.772		
2,500.0	2,481.9	2,414.5	2,333.7	10.3	0.0	-25.38	-102.0	579.7	420.0	410.5	9.50	44.220		
2,600.0	2,580.1	2,512.7	2,425.3	10.7	0.0	-25.59	-109.2	614.2	439.2	429.4	9.84	44.615		
2,700.0	2,678.4	2,610.8	2,516.9	11.1	0.0	-25.78	-116.4	648.6	458.4	448.2	10.19	44.963		
2,800.0	2,776.6	2,708.9	2,608.5	11.5	0.0	-25.96	-123.6	683.1	477.5	467.0	10.55	45.272		
2,900.0	2,874.9	2,807.1	2,700.1	11.9	0.0	-26.12	-130.8	717.5	496.7	485.8	10.91	45.546		
3,000.0	2,973.2	2,905.2	2,791.7	12.3	0.0	-26.27	-138.0	752.0	515.9	504.6	11.27	45.789		
3,100.0	3,071.4	3,003.4	2,883.3	12.8	0.0	-26.41	-145.2	786.4	535.0	523.4	11.63	46.006		
3,200.0	3,169.7	3,101.5	2,974.9	13.2	0.0	-26.54	-152.4	820.9	554.2	542.2	12.00	46.199		
3,300.0	3,268.0	3,199.6	3,066.5	13.6	0.0	-26.67	-159.6	855.3	573.4	561.0	12.37	46.372		
3,400.0	3,366.2	3,297.8	3,158.1	14.1	0.0	-26.78	-166.8	889.8	592.6	579.9	12.74	46.526		
3,500.0	3,464.5	3,395.9	3,249.7	14.6	0.0	-26.89	-174.0	924.2	611.8	598.7	13.11	46.665		
3,600.0	3,562.7	3,494.0	3,341.3	15.0	0.0	-26.99	-181.2	958.7	631.0	617.5	13.49	46.789		
3,700.0	3,661.0	3,592.2	3,432.9	15.5	0.0	-27.08	-188.4	993.1	650.2	636.3	13.86	46.901		
3,800.0	3,759.3	3,690.3	3,524.6	15.9	0.0	-27.17	-195.7	1,027.6	669.4	655.1	14.24	47.002		
3,900.0	3,857.5	3,788.4	3,616.2	16.4	0.0	-27.26	-202.9	1,062.0	688.5	673.9	14.62	47.092		
4,000.0	3,955.8	3,886.6	3,707.8	16.9	0.0	-27.34	-210.1	1,096.5	707.7	692.7	15.00	47.174		
4,100.0	4,054.1	3,984.7	3,799.4	17.3	0.0	-27.41	-217.3	1,130.9	726.9	711.5	15.39	47.248		
4,200.0	4,152.3	4,082.8	3,891.0	17.8	0.0	-27.48	-224.5	1,165.4	746.1	730.4	15.77	47.315		
4,300.0	4,250.6	4,181.0	3,982.6	18.2	0.0	-27.55	-231.7	1,199.8	765.3	749.2	16.15	47.375		
4,400.0	4,348.8	4,279.1	4,074.2	18.7	0.0	-27.62	-238.9	1,234.3	784.5	768.0	16.54	47.430		
4,500.0	4,447.1	4,377.3	4,165.8	19.2	0.0	-27.68	-246.1	1,268.7	803.7	786.8	16.93	47.480		
4,600.0	4,545.4	4,475.4	4,257.4	19.7	0.0	-27.74	-253.3	1,303.2	822.9	805.6	17.32	47.525		
4,700.0	4,643.6	4,573.5	4,349.0	20.1	0.0	-27.79	-260.5	1,337.6	842.1	824.4	17.70	47.565		
4,800.0	4,741.9	4,671.7	4,440.6	20.6	0.0	-27.84	-267.7	1,372.1	861.3	843.2	18.09	47.602		
4,900.0	4,840.2	4,769.8	4,532.2	21.1	0.0	-27.90	-274.9	1,406.5	880.5	862.1	18.48	47.636		
5,000.0	4,938.4	4,867.9	4,623.8	21.5	0.0	-27.94	-282.1	1,441.0	899.7	880.9	18.88	47.666		
5,100.0	5,036.7	4,966.1	4,715.4	22.0	0.0	-27.99	-289.3	1,475.5	918.9	899.7	19.27	47.694		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-4NBH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,064.2	4,807.0	22.5	0.0	-28.04	-296.5	1,509.9	938.2	918.5	19.66	47.719		
5,300.0	5,233.2	5,162.3	4,898.7	23.0	0.0	-28.08	-303.7	1,544.4	957.4	937.3	20.05	47.741		
5,400.0	5,331.5	5,260.5	4,990.3	23.4	0.0	-28.12	-311.0	1,578.8	976.6	956.1	20.45	47.762		
5,500.0	5,429.7	5,358.6	5,081.9	23.9	0.0	-28.16	-318.2	1,613.3	995.8	974.9	20.84	47.780		
5,600.0	5,528.0	5,456.8	5,173.5	24.4	0.0	-28.20	-325.4	1,647.7	1,015.0	993.7	21.24	47.797		
5,700.0	5,626.2	5,554.9	5,265.1	24.9	0.0	-28.24	-332.6	1,682.2	1,034.2	1,012.6	21.63	47.812		
5,800.0	5,724.5	5,653.0	5,356.7	25.3	0.0	-28.27	-339.8	1,716.6	1,053.4	1,031.4	22.03	47.825		
5,900.0	5,822.8	5,751.2	5,448.3	25.8	0.0	-28.31	-347.0	1,751.1	1,072.6	1,050.2	22.42	47.838		
6,000.0	5,921.0	5,849.3	5,539.9	26.3	0.0	-28.34	-354.2	1,785.5	1,091.8	1,069.0	22.82	47.848		
6,100.0	6,019.3	5,947.4	5,631.5	26.8	0.0	-28.37	-361.4	1,820.0	1,111.0	1,087.8	23.21	47.858		
6,200.0	6,117.6	6,045.6	5,723.1	27.2	0.0	-28.40	-368.6	1,854.4	1,130.2	1,106.6	23.61	47.867		
6,300.0	6,215.8	6,143.7	5,814.7	27.7	0.0	-28.43	-375.8	1,888.9	1,149.4	1,125.4	24.01	47.874		
6,400.0	6,314.1	6,241.8	5,906.3	28.2	0.0	-28.46	-383.0	1,923.3	1,168.6	1,144.2	24.41	47.881		
6,500.0	6,412.3	6,340.0	5,997.9	28.7	0.0	-28.49	-390.2	1,957.8	1,187.9	1,163.0	24.81	47.887		
6,600.0	6,510.6	6,438.1	6,089.5	29.1	0.0	-28.52	-397.4	1,992.2	1,207.1	1,181.9	25.20	47.892		
6,700.0	6,608.9	6,536.2	6,181.1	29.6	0.0	-28.54	-404.6	2,026.7	1,226.3	1,200.7	25.60	47.896		
6,800.0	6,707.4	6,634.0	6,272.4	30.1	0.0	23.21	-411.8	2,061.0	1,245.3	1,219.3	25.96	47.968		
6,900.0	6,804.5	6,729.1	6,361.2	30.5	0.0	53.19	-418.8	2,094.4	1,263.8	1,237.3	26.44	47.792		
7,000.0	6,897.3	6,818.6	6,444.7	30.9	0.0	64.64	-425.4	2,125.8	1,282.2	1,255.4	26.81	47.817		
7,100.0	6,982.9	6,899.8	6,520.5	31.3	0.0	70.21	-431.3	2,154.3	1,301.3	1,274.3	27.02	48.155		
7,200.0	7,058.8	6,970.2	6,586.2	31.5	0.0	73.23	-436.5	2,179.0	1,322.4	1,295.2	27.18	48.656		
7,300.0	7,122.6	7,027.7	6,639.9	31.7	0.0	74.60	-440.7	2,199.2	1,346.5	1,319.1	27.36	49.205		
7,400.0	7,172.5	7,070.5	6,679.9	31.7	0.0	74.47	-443.9	2,214.2	1,374.4	1,346.7	27.65	49.714		
7,500.0	7,206.8	7,097.4	6,705.0	31.7	0.0	72.86	-445.8	2,223.7	1,406.5	1,378.5	28.06	50.125		
7,600.0	7,224.5	7,107.5	6,714.4	31.7	0.0	69.78	-446.6	2,227.2	1,442.6	1,414.0	28.61	50.413		
7,700.0	7,227.0	7,102.3	6,709.6	31.6	0.0	67.41	-446.2	2,225.4	1,481.9	1,452.6	29.27	50.624		
7,800.0	7,227.0	8,294.0	7,367.0	31.7	0.0	95.39	284.3	2,460.5	1,491.4	1,463.1	28.29	52.714		
7,900.0	7,227.0	8,394.0	7,367.0	31.8	0.0	95.39	384.3	2,458.9	1,490.7	1,461.9	28.74	51.859		
8,000.0	7,227.0	8,494.0	7,367.0	32.0	0.0	95.39	484.3	2,457.3	1,489.9	1,460.6	29.30	50.858		
8,100.0	7,227.0	8,594.0	7,367.0	32.5	0.0	95.39	584.3	2,455.8	1,489.2	1,459.3	29.94	49.739		
8,200.0	7,227.0	8,694.0	7,367.0	33.0	0.0	95.40	684.3	2,454.2	1,488.5	1,457.8	30.67	48.528		
8,300.0	7,227.0	8,794.0	7,367.0	33.7	0.0	95.40	784.2	2,452.7	1,487.8	1,456.3	31.49	47.251		
8,400.0	7,227.0	8,894.0	7,367.0	34.6	0.0	95.40	884.2	2,451.1	1,487.0	1,454.7	32.37	45.932		
8,500.0	7,227.0	8,994.0	7,367.0	35.5	0.0	95.41	984.2	2,449.6	1,486.3	1,453.0	33.33	44.590		
8,600.0	7,227.0	9,094.0	7,367.0	36.5	0.0	95.41	1,084.2	2,448.0	1,485.6	1,451.2	34.35	43.244		
8,700.0	7,227.0	9,194.0	7,367.0	37.5	0.0	95.41	1,184.2	2,446.4	1,484.8	1,449.4	35.43	41.906		
8,800.0	7,227.0	9,294.0	7,367.0	38.6	0.0	95.41	1,284.2	2,444.9	1,484.1	1,447.5	36.56	40.589		
8,900.0	7,227.0	9,394.0	7,367.0	39.8	0.0	95.42	1,384.2	2,443.3	1,483.4	1,445.6	37.74	39.301		
9,000.0	7,227.0	9,494.0	7,367.0	41.0	0.0	95.42	1,484.1	2,441.8	1,482.7	1,443.7	38.97	38.048		
9,100.0	7,227.0	9,594.0	7,367.0	42.2	0.0	95.42	1,584.1	2,440.2	1,481.9	1,441.7	40.23	36.835		
9,200.0	7,227.0	9,694.0	7,367.0	43.5	0.0	95.42	1,684.1	2,438.6	1,481.2	1,439.7	41.53	35.665		
9,300.0	7,227.0	9,794.0	7,367.0	44.8	0.0	95.43	1,784.1	2,437.1	1,480.5	1,437.6	42.86	34.539		
9,400.0	7,227.0	9,894.0	7,367.0	46.1	0.0	95.43	1,884.1	2,435.5	1,479.7	1,435.5	44.23	33.459		
9,500.0	7,227.0	9,994.0	7,367.0	47.5	0.0	95.43	1,984.1	2,434.0	1,479.0	1,433.4	45.61	32.424		
9,600.0	7,227.0	10,094.0	7,367.0	48.9	0.0	95.43	2,084.1	2,432.4	1,478.3	1,431.3	47.03	31.434		
9,700.0	7,227.0	10,194.0	7,367.0	50.3	0.0	95.44	2,184.0	2,430.8	1,477.6	1,429.1	48.46	30.487		
9,800.0	7,227.0	10,294.0	7,367.0	51.7	0.0	95.44	2,284.0	2,429.3	1,476.8	1,426.9	49.92	29.583		
9,900.0	7,227.0	10,394.0	7,367.0	53.2	0.0	95.44	2,384.0	2,427.7	1,476.1	1,424.7	51.40	28.719		
10,000.0	7,227.0	10,494.0	7,367.0	54.7	0.0	95.45	2,484.0	2,426.2	1,475.4	1,422.5	52.89	27.894		
10,100.0	7,227.0	10,594.0	7,367.0	56.2	0.0	95.45	2,584.0	2,424.6	1,474.6	1,420.2	54.40	27.107		
10,200.0	7,227.0	10,694.0	7,367.0	57.7	0.0	95.45	2,684.0	2,423.1	1,473.9	1,418.0	55.92	26.356		
10,300.0	7,227.0	10,794.0	7,367.0	59.2	0.0	95.45	2,783.9	2,421.5	1,473.2	1,415.7	57.46	25.638		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		
10,400.0	7,227.0	10,893.9	7,367.0	60.7	0.0	95.46	2,883.9	2,419.9	1,472.4	1,413.4	59.01	24.952		
10,500.0	7,227.0	10,993.9	7,367.0	62.3	0.0	95.46	2,983.9	2,418.4	1,471.7	1,411.1	60.57	24.297		
10,600.0	7,227.0	11,093.9	7,367.0	63.8	0.0	95.46	3,083.9	2,416.8	1,471.0	1,408.8	62.14	23.671		
10,700.0	7,227.0	11,193.9	7,367.0	65.4	0.0	95.46	3,183.9	2,415.3	1,470.3	1,406.5	63.72	23.072		
10,800.0	7,227.0	11,293.9	7,367.0	67.0	0.0	95.47	3,283.9	2,413.7	1,469.5	1,404.2	65.31	22.499		
10,900.0	7,227.0	11,393.9	7,367.0	68.6	0.0	95.47	3,383.9	2,412.1	1,468.8	1,401.9	66.91	21.951		
11,000.0	7,227.0	11,493.9	7,367.0	70.2	0.0	95.47	3,483.8	2,410.6	1,468.1	1,399.6	68.52	21.426		
11,100.0	7,227.0	11,593.9	7,367.0	71.8	0.0	95.48	3,583.8	2,409.0	1,467.3	1,397.2	70.13	20.922		
11,200.0	7,227.0	11,693.9	7,367.0	73.4	0.0	95.48	3,683.8	2,407.5	1,466.6	1,394.9	71.75	20.440		
11,300.0	7,227.0	11,793.9	7,367.0	75.0	0.0	95.48	3,783.8	2,405.9	1,465.9	1,392.5	73.38	19.976		
11,400.0	7,227.0	11,893.9	7,367.0	76.6	0.0	95.48	3,883.8	2,404.3	1,465.2	1,390.1	75.01	19.532		
11,500.0	7,227.0	11,993.9	7,367.0	78.2	0.0	95.49	3,983.8	2,402.8	1,464.4	1,387.8	76.65	19.105		
11,600.0	7,227.0	12,093.9	7,367.0	79.9	0.0	95.49	4,083.8	2,401.2	1,463.7	1,385.4	78.30	18.694		
11,700.0	7,227.0	12,193.9	7,367.0	81.5	0.0	95.49	4,183.7	2,399.7	1,463.0	1,383.0	79.94	18.300		
11,800.0	7,227.0	12,293.9	7,367.0	83.2	0.0	95.49	4,283.7	2,398.1	1,462.2	1,380.6	81.60	17.920		
11,900.0	7,227.0	12,393.9	7,367.0	84.8	0.0	95.50	4,383.7	2,396.6	1,461.5	1,378.3	83.25	17.555		
12,000.0	7,227.0	12,493.9	7,367.0	86.5	0.0	95.50	4,483.7	2,395.0	1,460.8	1,375.9	84.92	17.203		
12,100.0	7,227.0	12,593.9	7,367.0	88.1	0.0	95.50	4,583.7	2,393.4	1,460.1	1,373.5	86.58	16.863		
12,200.0	7,227.0	12,693.9	7,367.0	89.8	0.0	95.51	4,683.7	2,391.9	1,459.3	1,371.1	88.25	16.536		
12,300.0	7,227.0	12,793.9	7,367.0	91.4	0.0	95.51	4,783.7	2,390.3	1,458.6	1,368.7	89.92	16.221		
12,400.0	7,227.0	12,893.9	7,367.0	93.1	0.0	95.51	4,883.6	2,388.8	1,457.9	1,366.3	91.60	15.916		
12,500.0	7,227.0	12,993.9	7,367.0	94.8	0.0	95.51	4,983.6	2,387.2	1,457.1	1,363.9	93.28	15.622		
12,600.0	7,227.0	13,093.9	7,367.0	96.5	0.0	95.52	5,083.6	2,385.6	1,456.4	1,361.5	94.96	15.337		
12,700.0	7,227.0	13,193.9	7,367.0	98.1	0.0	95.52	5,183.6	2,384.1	1,455.7	1,359.0	96.64	15.063		
12,800.0	7,227.0	13,293.9	7,367.0	99.8	0.0	95.52	5,283.6	2,382.5	1,455.0	1,356.6	98.33	14.797		
12,900.0	7,227.0	13,393.9	7,367.0	101.5	0.0	95.52	5,383.6	2,381.0	1,454.2	1,354.2	100.02	14.540		
13,000.0	7,227.0	13,493.9	7,367.0	103.2	0.0	95.53	5,483.5	2,379.4	1,453.5	1,351.8	101.71	14.291		
13,100.0	7,227.0	13,593.9	7,367.0	104.9	0.0	95.53	5,583.5	2,377.8	1,452.8	1,349.4	103.40	14.050		
13,200.0	7,227.0	13,693.9	7,367.0	106.6	0.0	95.53	5,683.5	2,376.3	1,452.0	1,346.9	105.10	13.816		
13,300.0	7,227.0	13,793.9	7,367.0	108.3	0.0	95.54	5,783.5	2,374.7	1,451.3	1,344.5	106.80	13.589		
13,400.0	7,227.0	13,893.9	7,367.0	110.0	0.0	95.54	5,883.5	2,373.2	1,450.6	1,342.1	108.50	13.370		
13,500.0	7,227.0	13,993.9	7,367.0	111.7	0.0	95.54	5,983.5	2,371.6	1,449.9	1,339.7	110.20	13.157		
13,600.0	7,227.0	14,093.9	7,367.0	113.4	0.0	95.54	6,083.5	2,370.1	1,449.1	1,337.2	111.90	12.950		
13,700.0	7,227.0	14,193.9	7,367.0	115.1	0.0	95.55	6,183.4	2,368.5	1,448.4	1,334.8	113.61	12.749		
13,800.0	7,227.0	14,293.9	7,367.0	116.8	0.0	95.55	6,283.4	2,366.9	1,447.7	1,332.4	115.31	12.554		
13,900.0	7,227.0	14,393.9	7,367.0	118.5	0.0	95.55	6,383.4	2,365.4	1,446.9	1,329.9	117.02	12.365		
14,000.0	7,227.0	14,493.9	7,367.0	120.2	0.0	95.56	6,483.4	2,363.8	1,446.2	1,327.5	118.73	12.181		
14,100.0	7,227.0	14,593.8	7,367.0	121.9	0.0	95.56	6,583.4	2,362.3	1,445.5	1,325.0	120.44	12.001		
14,200.0	7,227.0	14,693.8	7,367.0	123.6	0.0	95.56	6,683.4	2,360.7	1,444.8	1,322.6	122.15	11.827		
14,300.0	7,227.0	14,793.8	7,367.0	125.3	0.0	95.56	6,783.4	2,359.1	1,444.0	1,320.2	123.87	11.658		
14,400.0	7,227.0	14,893.8	7,367.0	127.1	0.0	95.57	6,883.3	2,357.6	1,443.3	1,317.7	125.58	11.493		
14,500.0	7,227.0	14,993.8	7,367.0	128.8	0.0	95.57	6,983.3	2,356.0	1,442.6	1,315.3	127.30	11.332		
14,600.0	7,227.0	15,093.8	7,367.0	130.5	0.0	95.57	7,083.3	2,354.5	1,441.8	1,312.8	129.02	11.176		
14,700.0	7,227.0	15,193.8	7,367.0	132.2	0.0	95.58	7,183.3	2,352.9	1,441.1	1,310.4	130.73	11.023		
14,800.0	7,227.0	15,293.8	7,367.0	133.9	0.0	95.58	7,283.3	2,351.3	1,440.4	1,307.9	132.45	10.875		
14,900.0	7,227.0	15,393.8	7,367.0	135.7	0.0	95.58	7,383.3	2,349.8	1,439.6	1,305.5	134.17	10.730		
15,000.0	7,227.0	15,493.8	7,367.0	137.4	0.0	95.58	7,483.3	2,348.2	1,438.9	1,303.0	135.89	10.589		
15,100.0	7,227.0	15,593.8	7,367.0	139.1	0.0	95.59	7,583.2	2,346.7	1,438.2	1,300.6	137.62	10.451		
15,200.0	7,227.0	15,693.8	7,367.0	140.8	0.0	95.59	7,683.2	2,345.1	1,437.5	1,298.1	139.34	10.316		
15,300.0	7,227.0	15,793.8	7,367.0	142.5	0.0	95.59	7,783.2	2,343.5	1,436.7	1,295.7	141.06	10.185		
15,400.0	7,227.0	15,893.8	7,367.0	144.3	0.0	95.59	7,883.2	2,342.0	1,436.0	1,293.2	142.79	10.057		
15,500.0	7,227.0	15,993.8	7,367.0	146.0	0.0	95.60	7,983.2	2,340.4	1,435.3	1,290.8	144.51	9.932		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		
15,600.0	7,227.0	16,093.8	7,367.0	147.7	0.0	95.60	8,083.2	2,338.9	1,434.5	1,288.3	146.24	9.810		
15,700.0	7,227.0	16,193.8	7,367.0	149.5	0.0	95.60	8,183.1	2,337.3	1,433.8	1,285.9	147.97	9.690		
15,800.0	7,227.0	16,293.8	7,367.0	151.2	0.0	95.61	8,283.1	2,335.8	1,433.1	1,283.4	149.69	9.574		
15,900.0	7,227.0	16,393.8	7,367.0	152.9	0.0	95.61	8,383.1	2,334.2	1,432.4	1,280.9	151.42	9.459		
16,000.0	7,227.0	16,493.8	7,367.0	154.7	0.0	95.61	8,483.1	2,332.6	1,431.6	1,278.5	153.15	9.348		
16,100.0	7,227.0	16,593.8	7,367.0	156.4	0.0	95.61	8,583.1	2,331.1	1,430.9	1,276.0	154.88	9.239		
16,200.0	7,227.0	16,693.8	7,367.0	158.1	0.0	95.62	8,683.1	2,329.5	1,430.2	1,273.6	156.61	9.132		
16,300.0	7,227.0	16,793.8	7,367.0	159.9	0.0	95.62	8,783.1	2,328.0	1,429.4	1,271.1	158.34	9.028		
16,400.0	7,227.0	16,893.8	7,367.0	161.6	0.0	95.62	8,883.0	2,326.4	1,428.7	1,268.6	160.07	8.925		
16,500.0	7,227.0	16,993.8	7,367.0	163.3	0.0	95.63	8,983.0	2,324.8	1,428.0	1,266.2	161.80	8.825		
16,600.0	7,227.0	17,093.8	7,367.0	165.1	0.0	95.63	9,083.0	2,323.3	1,427.3	1,263.7	163.54	8.727		
16,700.0	7,227.0	17,193.8	7,367.0	166.8	0.0	95.63	9,183.0	2,321.7	1,426.5	1,261.3	165.27	8.632		
16,800.0	7,227.0	17,293.8	7,367.0	168.5	0.0	95.64	9,283.0	2,320.2	1,425.8	1,258.8	167.00	8.538		
16,900.0	7,227.0	17,393.8	7,367.0	170.3	0.0	95.64	9,383.0	2,318.6	1,425.1	1,256.3	168.74	8.446		
17,000.0	7,227.0	17,493.8	7,367.0	172.0	0.0	95.64	9,483.0	2,317.0	1,424.3	1,253.9	170.47	8.355		
17,100.0	7,227.0	17,593.8	7,367.0	173.7	0.0	95.64	9,582.9	2,315.5	1,423.6	1,251.4	172.21	8.267		
17,200.0	7,227.0	17,693.8	7,367.0	175.5	0.0	95.65	9,682.9	2,313.9	1,422.9	1,248.9	173.94	8.180		
17,300.0	7,227.0	17,793.8	7,367.0	177.2	0.0	95.65	9,782.9	2,312.4	1,422.2	1,246.5	175.68	8.095		
17,400.0	7,227.0	17,893.8	7,367.0	179.0	0.0	95.65	9,882.9	2,310.8	1,421.4	1,244.0	177.41	8.012		
17,451.3	7,227.0	17,945.1	7,367.0	179.9	0.0	95.65	9,934.2	2,310.0	1,421.1	1,242.8	178.30	7.970 SF		

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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	89.65	0.5	74.9	74.9					
100.0	100.0	100.0	100.0	0.4	0.0	89.65	0.5	74.9	74.9	74.7	0.28	270.410		
200.0	200.0	200.0	200.0	1.0	0.0	89.65	0.5	74.9	74.9	74.1	0.80	93.896		
300.0	300.0	300.0	300.0	1.5	0.0	89.65	0.5	74.9	74.9	73.7	1.22	61.186		
400.0	400.0	400.0	400.0	1.9	0.0	89.65	0.5	74.9	74.9	73.3	1.62	46.297		
500.0	500.0	500.0	500.0	2.3	0.0	89.65	0.5	74.9	74.9	72.9	2.00	37.483		
600.0	600.0	600.0	600.0	2.7	0.0	89.65	0.5	74.9	74.9	72.6	2.37	31.580 CC, ES		
700.0	700.0	697.5	697.5	3.1	0.0	89.92	0.1	76.6	76.6	73.9	2.74	27.971		
800.0	800.0	794.7	794.6	3.5	0.0	90.66	-0.9	81.4	81.6	78.5	3.09	26.381		
900.0	900.0	891.5	891.0	3.9	0.0	91.70	-2.7	89.4	89.9	86.5	3.44	26.162		
1,000.0	1,000.0	987.7	986.5	4.2	0.0	92.87	-5.0	100.6	101.6	97.8	3.77	26.924		
1,100.0	1,100.0	1,082.9	1,080.6	4.6	0.0	94.02	-8.1	114.7	116.6	112.5	4.10	28.415		
1,200.0	1,200.0	1,177.4	1,173.5	4.9	0.0	-22.52	-11.7	131.7	133.2	128.7	4.55	29.296		
1,300.0	1,299.8	1,271.4	1,265.3	5.3	0.0	-22.13	-15.9	151.5	149.9	144.8	5.17	28.988		
1,400.0	1,399.5	1,364.9	1,355.8	6.0	0.0	-22.10	-20.8	174.2	166.7	160.9	5.74	29.023		
1,500.0	1,498.7	1,457.8	1,445.1	6.7	0.0	-22.33	-26.2	199.6	183.4	177.1	6.27	29.269		
1,600.0	1,597.5	1,550.3	1,532.9	7.4	0.0	-22.75	-32.3	227.6	200.1	193.4	6.75	29.650		
1,700.0	1,695.8	1,642.9	1,620.0	7.7	0.0	-23.33	-38.9	258.5	217.5	210.5	6.98	31.156		
1,800.0	1,794.0	1,741.2	1,712.0	8.0	0.0	-23.87	-46.1	292.3	235.9	228.6	7.26	32.480		
1,900.0	1,892.3	1,839.5	1,804.0	8.3	0.0	-24.34	-53.4	326.2	254.3	246.7	7.56	33.646		
2,000.0	1,990.6	1,937.7	1,896.0	8.6	0.0	-24.74	-60.6	360.0	272.7	264.8	7.86	34.681		
2,100.0	2,088.8	2,036.0	1,987.9	8.9	0.0	-25.09	-67.9	393.9	291.1	283.0	8.18	35.600		
2,200.0	2,187.1	2,134.3	2,079.9	9.2	0.0	-25.39	-75.1	427.7	309.6	301.1	8.50	36.418		
2,300.0	2,285.3	2,232.5	2,171.9	9.6	0.0	-25.67	-82.3	461.6	328.1	319.2	8.83	37.147		
2,400.0	2,383.6	2,330.8	2,263.9	9.9	0.0	-25.91	-89.6	495.4	346.5	337.3	9.17	37.799		
2,500.0	2,481.9	2,429.1	2,355.8	10.3	0.0	-26.13	-96.8	529.2	365.0	355.5	9.51	38.382		
2,600.0	2,580.1	2,527.4	2,447.8	10.7	0.0	-26.33	-104.1	563.1	383.5	373.6	9.86	38.905		
2,700.0	2,678.4	2,625.6	2,539.8	11.1	0.0	-26.51	-111.3	596.9	401.9	391.7	10.21	39.376		
2,800.0	2,776.6	2,723.9	2,631.8	11.5	0.0	-26.67	-118.6	630.8	420.4	409.9	10.56	39.801		
2,900.0	2,874.9	2,822.2	2,723.7	11.9	0.0	-26.82	-125.8	664.6	438.9	428.0	10.92	40.185		
3,000.0	2,973.2	2,920.4	2,815.7	12.3	0.0	-26.96	-133.1	698.4	457.4	446.1	11.28	40.533		
3,100.0	3,071.4	3,018.7	2,907.7	12.8	0.0	-27.09	-140.3	732.3	475.9	464.2	11.65	40.849		
3,200.0	3,169.7	3,117.0	2,999.7	13.2	0.0	-27.21	-147.6	766.1	494.4	482.3	12.02	41.136		
3,300.0	3,268.0	3,215.2	3,091.6	13.6	0.0	-27.32	-154.8	800.0	512.9	500.5	12.39	41.399		
3,400.0	3,366.2	3,313.5	3,183.6	14.1	0.0	-27.42	-162.1	833.8	531.3	518.6	12.76	41.639		
3,500.0	3,464.5	3,411.8	3,275.6	14.6	0.0	-27.52	-169.3	867.6	549.8	536.7	13.14	41.859		
3,600.0	3,562.7	3,510.1	3,367.6	15.0	0.0	-27.60	-176.6	901.5	568.3	554.8	13.51	42.062		
3,700.0	3,661.0	3,608.3	3,459.5	15.5	0.0	-27.69	-183.8	935.3	586.8	573.0	13.89	42.248		
3,800.0	3,759.3	3,706.6	3,551.5	15.9	0.0	-27.77	-191.1	969.2	605.3	591.1	14.27	42.419		
3,900.0	3,857.5	3,804.9	3,643.5	16.4	0.0	-27.84	-198.3	1,003.0	623.8	609.2	14.65	42.578		
4,000.0	3,955.8	3,903.1	3,735.5	16.9	0.0	-27.91	-205.6	1,036.8	642.3	627.3	15.03	42.724		
4,100.0	4,054.1	4,001.4	3,827.4	17.3	0.0	-27.97	-212.8	1,070.7	660.8	645.4	15.42	42.860		
4,200.0	4,152.3	4,099.7	3,919.4	17.8	0.0	-28.04	-220.1	1,104.5	679.3	663.5	15.80	42.986		
4,300.0	4,250.6	4,198.0	4,011.4	18.2	0.0	-28.09	-227.3	1,138.4	697.9	681.7	16.19	43.104		
4,400.0	4,348.8	4,296.2	4,103.4	18.7	0.0	-28.15	-234.6	1,172.2	716.4	699.8	16.58	43.213		
4,500.0	4,447.1	4,394.5	4,195.3	19.2	0.0	-28.20	-241.8	1,206.1	734.9	717.9	16.97	43.315		
4,600.0	4,545.4	4,492.8	4,287.3	19.7	0.0	-28.25	-249.0	1,239.9	753.4	736.0	17.35	43.410		
4,700.0	4,643.6	4,591.0	4,379.3	20.1	0.0	-28.30	-256.3	1,273.7	771.9	754.1	17.74	43.499		
4,800.0	4,741.9	4,689.3	4,471.3	20.6	0.0	-28.35	-263.5	1,307.6	790.4	772.2	18.14	43.582		
4,900.0	4,840.2	4,787.6	4,563.2	21.1	0.0	-28.39	-270.8	1,341.4	808.9	790.4	18.53	43.661		
5,000.0	4,938.4	4,885.8	4,655.2	21.5	0.0	-28.43	-278.0	1,375.3	827.4	808.5	18.92	43.734		
5,100.0	5,036.7	4,984.1	4,747.2	22.0	0.0	-28.47	-285.3	1,409.1	845.9	826.6	19.31	43.803		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-4NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,082.4	4,839.2	22.5	0.0	-28.51	-292.5	1,442.9	864.4	844.7	19.70	43.868		
5,300.0	5,233.2	5,180.7	4,931.1	23.0	0.0	-28.55	-299.8	1,476.8	882.9	862.8	20.10	43.929		
5,400.0	5,331.5	5,278.9	5,023.1	23.4	0.0	-28.58	-307.0	1,510.6	901.4	880.9	20.49	43.986		
5,500.0	5,429.7	5,377.2	5,115.1	23.9	0.0	-28.61	-314.3	1,544.5	919.9	899.1	20.89	44.041		
5,600.0	5,528.0	5,475.5	5,207.1	24.4	0.0	-28.65	-321.5	1,578.3	938.4	917.2	21.28	44.092		
5,700.0	5,626.2	5,573.7	5,299.0	24.9	0.0	-28.68	-328.8	1,612.1	957.0	935.3	21.68	44.141		
5,800.0	5,724.5	5,672.0	5,391.0	25.3	0.0	-28.71	-336.0	1,646.0	975.5	953.4	22.08	44.187		
5,900.0	5,822.8	5,770.3	5,483.0	25.8	0.0	-28.74	-343.3	1,679.8	994.0	971.5	22.47	44.230		
6,000.0	5,921.0	5,868.6	5,575.0	26.3	0.0	-28.76	-350.5	1,713.7	1,012.5	989.6	22.87	44.271		
6,100.0	6,019.3	5,966.8	5,666.9	26.8	0.0	-28.79	-357.8	1,747.5	1,031.0	1,007.7	23.27	44.310		
6,200.0	6,117.6	6,065.1	5,758.9	27.2	0.0	-28.82	-365.0	1,781.4	1,049.5	1,025.8	23.67	44.348		
6,300.0	6,215.8	6,163.4	5,850.9	27.7	0.0	-28.84	-372.3	1,815.2	1,068.0	1,044.0	24.06	44.383		
6,400.0	6,314.1	6,261.6	5,942.9	28.2	0.0	-28.86	-379.5	1,849.0	1,086.5	1,062.1	24.46	44.416		
6,500.0	6,412.3	6,359.9	6,034.8	28.7	0.0	-28.89	-386.8	1,882.9	1,105.0	1,080.2	24.86	44.448		
6,600.0	6,510.6	6,458.2	6,126.8	29.1	0.0	-28.91	-394.0	1,916.7	1,123.6	1,098.3	25.26	44.478		
6,700.0	6,608.9	6,556.5	6,218.8	29.6	0.0	-28.93	-401.3	1,950.6	1,142.1	1,116.4	25.66	44.507		
6,800.0	6,707.4	6,654.4	6,310.4	30.1	0.0	22.93	-408.5	1,984.3	1,160.3	1,134.3	26.02	44.601		
6,900.0	6,804.5	6,749.5	6,399.5	30.5	0.0	53.08	-415.5	2,017.1	1,178.0	1,151.5	26.49	44.466		
7,000.0	6,897.3	6,839.1	6,483.4	30.9	0.0	64.73	-422.1	2,047.9	1,195.6	1,168.8	26.86	44.522		
7,100.0	6,982.9	6,920.4	6,559.5	31.3	0.0	70.51	-428.1	2,075.9	1,214.2	1,187.1	27.05	44.880		
7,200.0	7,058.8	6,990.9	6,625.4	31.5	0.0	73.72	-433.3	2,100.2	1,234.9	1,207.7	27.20	45.401		
7,300.0	7,122.6	7,048.5	6,679.3	31.7	0.0	75.22	-437.5	2,120.0	1,259.1	1,231.7	27.38	45.982		
7,400.0	7,172.5	7,091.4	6,719.4	31.7	0.0	75.14	-440.7	2,134.8	1,287.7	1,260.0	27.67	46.538		
7,500.0	7,206.8	7,118.3	6,744.6	31.7	0.0	73.47	-442.7	2,144.0	1,321.0	1,292.9	28.10	47.017		
7,600.0	7,224.5	7,128.4	6,754.1	31.7	0.0	70.21	-443.4	2,147.5	1,358.7	1,330.0	28.66	47.398		
7,700.0	7,227.0	7,123.2	6,749.2	31.6	0.0	67.69	-443.1	2,145.7	1,400.0	1,370.7	29.34	47.722		
7,800.0	7,227.0	8,355.0	7,447.0	31.7	0.0	98.84	283.2	2,390.3	1,431.6	1,403.8	27.83	51.446		
7,900.0	7,227.0	8,455.0	7,447.0	31.8	0.0	98.84	383.2	2,388.7	1,430.9	1,402.7	28.27	50.615		
8,000.0	7,227.0	8,555.0	7,447.0	32.0	0.0	98.85	483.2	2,387.2	1,430.2	1,401.4	28.81	49.638		
8,100.0	7,227.0	8,655.0	7,447.0	32.5	0.0	98.85	583.1	2,385.6	1,429.5	1,400.0	29.45	48.541		
8,200.0	7,227.0	8,755.0	7,447.0	33.0	0.0	98.86	683.1	2,384.1	1,428.8	1,398.6	30.17	47.353		
8,300.0	7,227.0	8,855.0	7,447.0	33.7	0.0	98.86	783.1	2,382.5	1,428.0	1,397.1	30.98	46.098		
8,400.0	7,227.0	8,955.0	7,447.0	34.6	0.0	98.87	883.1	2,381.0	1,427.3	1,395.5	31.86	44.800		
8,500.0	7,227.0	9,055.0	7,447.0	35.5	0.0	98.87	983.1	2,379.4	1,426.6	1,393.8	32.81	43.480		
8,600.0	7,227.0	9,155.0	7,447.0	36.5	0.0	98.88	1,083.1	2,377.8	1,425.9	1,392.0	33.83	42.154		
8,700.0	7,227.0	9,255.0	7,447.0	37.5	0.0	98.88	1,183.1	2,376.3	1,425.2	1,390.3	34.90	40.838		
8,800.0	7,227.0	9,355.0	7,447.0	38.6	0.0	98.88	1,283.0	2,374.7	1,424.4	1,388.4	36.02	39.542		
8,900.0	7,227.0	9,455.0	7,447.0	39.8	0.0	98.89	1,383.0	2,373.2	1,423.7	1,386.5	37.20	38.275		
9,000.0	7,227.0	9,554.9	7,447.0	41.0	0.0	98.89	1,483.0	2,371.6	1,423.0	1,384.6	38.41	37.043		
9,100.0	7,227.0	9,654.9	7,447.0	42.2	0.0	98.90	1,583.0	2,370.1	1,422.3	1,382.6	39.67	35.851		
9,200.0	7,227.0	9,754.9	7,447.0	43.5	0.0	98.90	1,683.0	2,368.5	1,421.5	1,380.6	40.96	34.702		
9,300.0	7,227.0	9,854.9	7,447.0	44.8	0.0	98.91	1,783.0	2,367.0	1,420.8	1,378.5	42.29	33.597		
9,400.0	7,227.0	9,954.9	7,447.0	46.1	0.0	98.91	1,883.0	2,365.4	1,420.1	1,376.5	43.64	32.538		
9,500.0	7,227.0	10,054.9	7,447.0	47.5	0.0	98.92	1,982.9	2,363.8	1,419.4	1,374.4	45.03	31.523		
9,600.0	7,227.0	10,154.9	7,447.0	48.9	0.0	98.92	2,082.9	2,362.3	1,418.7	1,372.2	46.43	30.552		
9,700.0	7,227.0	10,254.9	7,447.0	50.3	0.0	98.93	2,182.9	2,360.7	1,417.9	1,370.1	47.86	29.625		
9,800.0	7,227.0	10,354.9	7,447.0	51.7	0.0	98.93	2,282.9	2,359.2	1,417.2	1,367.9	49.31	28.739		
9,900.0	7,227.0	10,454.9	7,447.0	53.2	0.0	98.94	2,382.9	2,357.6	1,416.5	1,365.7	50.78	27.894		
10,000.0	7,227.0	10,554.9	7,447.0	54.7	0.0	98.94	2,482.9	2,356.1	1,415.8	1,363.5	52.27	27.087		
10,100.0	7,227.0	10,654.9	7,447.0	56.2	0.0	98.94	2,582.9	2,354.5	1,415.1	1,361.3	53.77	26.317		
10,200.0	7,227.0	10,754.9	7,447.0	57.7	0.0	98.95	2,682.8	2,352.9	1,414.3	1,359.1	55.29	25.583		
10,300.0	7,227.0	10,854.9	7,447.0	59.2	0.0	98.95	2,782.8	2,351.4	1,413.6	1,356.8	56.81	24.881		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-4NCH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,227.0	10,954.9	7,447.0	60.7	0.0	98.96	2,882.8	2,349.8	1,412.9	1,354.5	58.36	24.212		
10,500.0	7,227.0	11,054.9	7,447.0	62.3	0.0	98.96	2,982.8	2,348.3	1,412.2	1,352.3	59.91	23.572		
10,600.0	7,227.0	11,154.9	7,447.0	63.8	0.0	98.97	3,082.8	2,346.7	1,411.5	1,350.0	61.47	22.961		
10,700.0	7,227.0	11,254.9	7,447.0	65.4	0.0	98.97	3,182.8	2,345.2	1,410.7	1,347.7	63.04	22.377		
10,800.0	7,227.0	11,354.9	7,447.0	67.0	0.0	98.98	3,282.7	2,343.6	1,410.0	1,345.4	64.63	21.818		
10,900.0	7,227.0	11,454.9	7,447.0	68.6	0.0	98.98	3,382.7	2,342.0	1,409.3	1,343.1	66.22	21.283		
11,000.0	7,227.0	11,554.9	7,447.0	70.2	0.0	98.99	3,482.7	2,340.5	1,408.6	1,340.8	67.81	20.771		
11,100.0	7,227.0	11,654.9	7,447.0	71.8	0.0	98.99	3,582.7	2,338.9	1,407.8	1,338.4	69.42	20.281		
11,200.0	7,227.0	11,754.9	7,447.0	73.4	0.0	99.00	3,682.7	2,337.4	1,407.1	1,336.1	71.03	19.810		
11,300.0	7,227.0	11,854.9	7,447.0	75.0	0.0	99.00	3,782.7	2,335.8	1,406.4	1,333.8	72.65	19.359		
11,400.0	7,227.0	11,954.9	7,447.0	76.6	0.0	99.00	3,882.7	2,334.3	1,405.7	1,331.4	74.27	18.926		
11,500.0	7,227.0	12,054.9	7,447.0	78.2	0.0	99.01	3,982.6	2,332.7	1,405.0	1,329.1	75.90	18.511		
11,600.0	7,227.0	12,154.9	7,447.0	79.9	0.0	99.01	4,082.6	2,331.1	1,404.2	1,326.7	77.53	18.111		
11,700.0	7,227.0	12,254.9	7,447.0	81.5	0.0	99.02	4,182.6	2,329.6	1,403.5	1,324.3	79.17	17.727		
11,800.0	7,227.0	12,354.9	7,447.0	83.2	0.0	99.02	4,282.6	2,328.0	1,402.8	1,322.0	80.82	17.358		
11,900.0	7,227.0	12,454.9	7,447.0	84.8	0.0	99.03	4,382.6	2,326.5	1,402.1	1,319.6	82.46	17.002		
12,000.0	7,227.0	12,554.9	7,447.0	86.5	0.0	99.03	4,482.6	2,324.9	1,401.4	1,317.2	84.12	16.660		
12,100.0	7,227.0	12,654.9	7,447.0	88.1	0.0	99.04	4,582.6	2,323.4	1,400.6	1,314.9	85.77	16.330		
12,200.0	7,227.0	12,754.9	7,447.0	89.8	0.0	99.04	4,682.5	2,321.8	1,399.9	1,312.5	87.43	16.012		
12,300.0	7,227.0	12,854.9	7,447.0	91.4	0.0	99.05	4,782.5	2,320.3	1,399.2	1,310.1	89.09	15.705		
12,400.0	7,227.0	12,954.9	7,447.0	93.1	0.0	99.05	4,882.5	2,318.7	1,398.5	1,307.7	90.76	15.409		
12,500.0	7,227.0	13,054.9	7,447.0	94.8	0.0	99.06	4,982.5	2,317.1	1,397.8	1,305.3	92.43	15.123		
12,600.0	7,227.0	13,154.9	7,447.0	96.5	0.0	99.06	5,082.5	2,315.6	1,397.0	1,302.9	94.10	14.847		
12,700.0	7,227.0	13,254.8	7,447.0	98.1	0.0	99.07	5,182.5	2,314.0	1,396.3	1,300.5	95.77	14.580		
12,800.0	7,227.0	13,354.8	7,447.0	99.8	0.0	99.07	5,282.5	2,312.5	1,395.6	1,298.1	97.45	14.322		
12,900.0	7,227.0	13,454.8	7,447.0	101.5	0.0	99.07	5,382.4	2,310.9	1,394.9	1,295.7	99.12	14.072		
13,000.0	7,227.0	13,554.8	7,447.0	103.2	0.0	99.08	5,482.4	2,309.4	1,394.2	1,293.3	100.81	13.830		
13,100.0	7,227.0	13,654.8	7,447.0	104.9	0.0	99.08	5,582.4	2,307.8	1,393.4	1,290.9	102.49	13.596		
13,200.0	7,227.0	13,754.8	7,447.0	106.6	0.0	99.09	5,682.4	2,306.2	1,392.7	1,288.5	104.17	13.369		
13,300.0	7,227.0	13,854.8	7,447.0	108.3	0.0	99.09	5,782.4	2,304.7	1,392.0	1,286.1	105.86	13.149		
13,400.0	7,227.0	13,954.8	7,447.0	110.0	0.0	99.10	5,882.4	2,303.1	1,391.3	1,283.7	107.55	12.936		
13,500.0	7,227.0	14,054.8	7,447.0	111.7	0.0	99.10	5,982.3	2,301.6	1,390.5	1,281.3	109.24	12.729		
13,600.0	7,227.0	14,154.8	7,447.0	113.4	0.0	99.11	6,082.3	2,300.0	1,389.8	1,278.9	110.93	12.529		
13,700.0	7,227.0	14,254.8	7,447.0	115.1	0.0	99.11	6,182.3	2,298.5	1,389.1	1,276.5	112.63	12.334		
13,800.0	7,227.0	14,354.8	7,447.0	116.8	0.0	99.12	6,282.3	2,296.9	1,388.4	1,274.1	114.32	12.144		
13,900.0	7,227.0	14,454.8	7,447.0	118.5	0.0	99.12	6,382.3	2,295.3	1,387.7	1,271.6	116.02	11.961		
14,000.0	7,227.0	14,554.8	7,447.0	120.2	0.0	99.13	6,482.3	2,293.8	1,386.9	1,269.2	117.72	11.782		
14,100.0	7,227.0	14,654.8	7,447.0	121.9	0.0	99.13	6,582.3	2,292.2	1,386.2	1,266.8	119.42	11.608		
14,200.0	7,227.0	14,754.8	7,447.0	123.6	0.0	99.14	6,682.2	2,290.7	1,385.5	1,264.4	121.12	11.439		
14,300.0	7,227.0	14,854.8	7,447.0	125.3	0.0	99.14	6,782.2	2,289.1	1,384.8	1,262.0	122.82	11.275		
14,400.0	7,227.0	14,954.8	7,447.0	127.1	0.0	99.15	6,882.2	2,287.6	1,384.1	1,259.5	124.52	11.115		
14,500.0	7,227.0	15,054.8	7,447.0	128.8	0.0	99.15	6,982.2	2,286.0	1,383.3	1,257.1	126.23	10.959		
14,600.0	7,227.0	15,154.8	7,447.0	130.5	0.0	99.16	7,082.2	2,284.5	1,382.6	1,254.7	127.93	10.807		
14,700.0	7,227.0	15,254.8	7,447.0	132.2	0.0	99.16	7,182.2	2,282.9	1,381.9	1,252.3	129.64	10.660		
14,800.0	7,227.0	15,354.8	7,447.0	133.9	0.0	99.17	7,282.2	2,281.3	1,381.2	1,249.8	131.35	10.515		
14,900.0	7,227.0	15,454.8	7,447.0	135.7	0.0	99.17	7,382.1	2,279.8	1,380.5	1,247.4	133.06	10.375		
15,000.0	7,227.0	15,554.8	7,447.0	137.4	0.0	99.18	7,482.1	2,278.2	1,379.7	1,245.0	134.77	10.238		
15,100.0	7,227.0	15,654.8	7,447.0	139.1	0.0	99.18	7,582.1	2,276.7	1,379.0	1,242.5	136.48	10.104		
15,200.0	7,227.0	15,754.8	7,447.0	140.8	0.0	99.18	7,682.1	2,275.1	1,378.3	1,240.1	138.19	9.974		
15,300.0	7,227.0	15,854.8	7,447.0	142.5	0.0	99.19	7,782.1	2,273.6	1,377.6	1,237.7	139.90	9.847		
15,400.0	7,227.0	15,954.8	7,447.0	144.3	0.0	99.19	7,882.1	2,272.0	1,376.9	1,235.2	141.61	9.723		
15,500.0	7,227.0	16,054.8	7,447.0	146.0	0.0	99.20	7,982.1	2,270.4	1,376.1	1,232.8	143.33	9.601		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		
15,600.0	7,227.0	16,154.8	7,447.0	147.7	0.0	99.20	8,082.0	2,268.9	1,375.4	1,230.4	145.04	9.483		
15,700.0	7,227.0	16,254.8	7,447.0	149.5	0.0	99.21	8,182.0	2,267.3	1,374.7	1,227.9	146.75	9.367		
15,800.0	7,227.0	16,354.8	7,447.0	151.2	0.0	99.21	8,282.0	2,265.8	1,374.0	1,225.5	148.47	9.254		
15,900.0	7,227.0	16,454.8	7,447.0	152.9	0.0	99.22	8,382.0	2,264.2	1,373.3	1,223.1	150.19	9.144		
16,000.0	7,227.0	16,554.8	7,447.0	154.7	0.0	99.22	8,482.0	2,262.7	1,372.5	1,220.6	151.90	9.036		
16,100.0	7,227.0	16,654.8	7,447.0	156.4	0.0	99.23	8,582.0	2,261.1	1,371.8	1,218.2	153.62	8.930		
16,200.0	7,227.0	16,754.8	7,447.0	158.1	0.0	99.23	8,681.9	2,259.5	1,371.1	1,215.8	155.34	8.826		
16,300.0	7,227.0	16,854.8	7,447.0	159.9	0.0	99.24	8,781.9	2,258.0	1,370.4	1,213.3	157.06	8.725		
16,400.0	7,227.0	16,954.8	7,447.0	161.6	0.0	99.24	8,881.9	2,256.4	1,369.7	1,210.9	158.78	8.626		
16,500.0	7,227.0	17,054.7	7,447.0	163.3	0.0	99.25	8,981.9	2,254.9	1,368.9	1,208.4	160.50	8.529		
16,600.0	7,227.0	17,154.7	7,447.0	165.1	0.0	99.25	9,081.9	2,253.3	1,368.2	1,206.0	162.22	8.435		
16,700.0	7,227.0	17,254.7	7,447.0	166.8	0.0	99.26	9,181.9	2,251.8	1,367.5	1,203.6	163.94	8.342		
16,800.0	7,227.0	17,354.7	7,447.0	168.5	0.0	99.26	9,281.9	2,250.2	1,366.8	1,201.1	165.66	8.251		
16,900.0	7,227.0	17,454.7	7,447.0	170.3	0.0	99.27	9,381.8	2,248.7	1,366.0	1,198.7	167.38	8.161		
17,000.0	7,227.0	17,554.7	7,447.0	172.0	0.0	99.27	9,481.8	2,247.1	1,365.3	1,196.2	169.10	8.074		
17,100.0	7,227.0	17,654.7	7,447.0	173.7	0.0	99.28	9,581.8	2,245.5	1,364.6	1,193.8	170.82	7.988		
17,200.0	7,227.0	17,754.7	7,447.0	175.5	0.0	99.28	9,681.8	2,244.0	1,363.9	1,191.3	172.55	7.904		
17,300.0	7,227.0	17,854.7	7,447.0	177.2	0.0	99.29	9,781.8	2,242.4	1,363.2	1,188.9	174.27	7.822		
17,400.0	7,227.0	17,954.7	7,447.0	179.0	0.0	99.29	9,881.8	2,240.9	1,362.4	1,186.5	175.99	7.741		
17,451.3	7,227.0	18,006.1	7,447.0	179.9	0.0	99.30	9,933.1	2,240.1	1,362.1	1,185.2	176.88	7.701 SF		

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

Offset Design S19-T1S-R65W - CONNER 19-18-4NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.70	0.3	59.9	59.9					
100.0	100.0	100.0	100.0	0.4	0.0	89.70	0.3	59.9	59.9	59.7	0.28	216.394		
200.0	200.0	200.0	200.0	1.0	0.0	89.70	0.3	59.9	59.9	59.1	0.80	75.134		
300.0	300.0	300.0	300.0	1.5	0.0	89.70	0.3	59.9	59.9	58.7	1.22	48.957		
400.0	400.0	400.0	400.0	1.9	0.0	89.70	0.3	59.9	59.9	58.3	1.62	37.042		
500.0	500.0	500.0	500.0	2.3	0.0	89.70	0.3	59.9	59.9	57.9	2.00	29.989		
600.0	600.0	600.0	600.0	2.7	0.0	89.70	0.3	59.9	59.9	57.6	2.37	25.266		
700.0	700.0	700.0	700.0	3.1	0.0	89.70	0.3	59.9	59.9	57.2	2.74	21.860	CC, ES	
800.0	800.0	798.0	797.9	3.5	0.0	90.06	-0.1	61.6	61.6	58.5	3.10	19.852		
900.0	900.0	895.7	895.6	3.9	0.0	91.05	-1.2	66.4	66.6	63.2	3.45	19.300		
1,000.0	1,000.0	993.0	992.5	4.2	0.0	92.41	-3.1	74.5	75.0	71.2	3.79	19.789		
1,100.0	1,100.0	1,089.6	1,088.4	4.6	0.0	93.86	-5.8	85.7	86.7	82.5	4.12	21.053		
1,200.0	1,200.0	1,185.6	1,183.3	4.9	0.0	-22.48	-9.1	99.9	100.1	95.5	4.56	21.931		
1,300.0	1,299.8	1,281.1	1,277.2	5.3	0.0	-22.04	-13.2	117.1	113.6	108.5	5.20	21.866		
1,400.0	1,399.5	1,376.3	1,370.0	6.0	0.0	-22.03	-18.0	137.3	127.3	121.5	5.78	22.032		
1,500.0	1,498.7	1,470.9	1,461.7	6.7	0.0	-22.35	-23.4	160.3	140.9	134.6	6.31	22.345		
1,600.0	1,597.5	1,565.2	1,552.1	7.4	0.0	-22.88	-29.6	186.1	154.6	147.8	6.79	22.753		
1,700.0	1,695.8	1,658.9	1,641.1	7.7	0.0	-23.56	-36.3	214.6	169.0	162.0	7.02	24.066		
1,800.0	1,794.0	1,755.4	1,732.0	8.0	0.0	-24.06	-43.8	246.4	185.8	178.5	7.29	25.501		
1,900.0	1,892.3	1,854.0	1,824.6	8.3	0.0	-24.48	-51.6	278.9	202.8	195.2	7.58	26.743		
2,000.0	1,990.6	1,952.5	1,917.3	8.6	0.0	-24.84	-59.3	311.5	219.8	211.9	7.89	27.856		
2,100.0	2,088.8	2,051.1	2,010.0	8.9	0.0	-25.14	-67.0	344.1	236.8	228.6	8.21	28.856		
2,200.0	2,187.1	2,149.6	2,102.7	9.2	0.0	-25.41	-74.7	376.7	253.8	245.3	8.53	29.754		
2,300.0	2,285.3	2,248.1	2,195.4	9.6	0.0	-25.64	-82.4	409.2	270.9	262.0	8.86	30.563		
2,400.0	2,383.6	2,346.7	2,288.0	9.9	0.0	-25.84	-90.1	441.8	287.9	278.7	9.20	31.293		
2,500.0	2,481.9	2,445.2	2,380.7	10.3	0.0	-26.02	-97.8	474.4	304.9	295.4	9.54	31.954		
2,600.0	2,580.1	2,543.7	2,473.4	10.7	0.0	-26.18	-105.5	506.9	322.0	312.1	9.89	32.553		
2,700.0	2,678.4	2,642.3	2,566.1	11.1	0.0	-26.33	-113.3	539.5	339.0	328.8	10.24	33.097		
2,800.0	2,776.6	2,740.8	2,658.7	11.5	0.0	-26.46	-121.0	572.1	356.0	345.4	10.60	33.593		
2,900.0	2,874.9	2,839.3	2,751.4	11.9	0.0	-26.58	-128.7	604.6	373.1	362.1	10.96	34.045		
3,000.0	2,973.2	2,937.9	2,844.1	12.3	0.0	-26.69	-136.4	637.2	390.1	378.8	11.32	34.460		
3,100.0	3,071.4	3,036.4	2,936.8	12.8	0.0	-26.79	-144.1	669.8	407.2	395.5	11.69	34.840		
3,200.0	3,169.7	3,134.9	3,029.4	13.2	0.0	-26.88	-151.8	702.3	424.2	412.2	12.05	35.190		
3,300.0	3,268.0	3,233.5	3,122.1	13.6	0.0	-26.96	-159.5	734.9	441.3	428.8	12.43	35.512		
3,400.0	3,366.2	3,332.0	3,214.8	14.1	0.0	-27.04	-167.2	767.5	458.3	445.5	12.80	35.809		
3,500.0	3,464.5	3,430.5	3,307.5	14.6	0.0	-27.11	-175.0	800.0	475.3	462.2	13.17	36.085		
3,600.0	3,562.7	3,529.1	3,400.1	15.0	0.0	-27.18	-182.7	832.6	492.4	478.8	13.55	36.340		
3,700.0	3,661.0	3,627.6	3,492.8	15.5	0.0	-27.24	-190.4	865.2	509.4	495.5	13.93	36.577		
3,800.0	3,759.3	3,726.1	3,585.5	15.9	0.0	-27.30	-198.1	897.7	526.5	512.2	14.31	36.798		
3,900.0	3,857.5	3,824.7	3,678.2	16.4	0.0	-27.36	-205.8	930.3	543.5	528.9	14.69	37.004		
4,000.0	3,955.8	3,923.2	3,770.8	16.9	0.0	-27.41	-213.5	962.9	560.6	545.5	15.07	37.196		
4,100.0	4,054.1	4,021.7	3,863.5	17.3	0.0	-27.46	-221.2	995.4	577.6	562.2	15.46	37.375		
4,200.0	4,152.3	4,120.3	3,956.2	17.8	0.0	-27.51	-229.0	1,028.0	594.7	578.9	15.84	37.544		
4,300.0	4,250.6	4,218.8	4,048.9	18.2	0.0	-27.55	-236.7	1,060.6	611.7	595.5	16.23	37.702		
4,400.0	4,348.8	4,317.3	4,141.6	18.7	0.0	-27.59	-244.4	1,093.1	628.8	612.2	16.61	37.850		
4,500.0	4,447.1	4,415.9	4,234.2	19.2	0.0	-27.63	-252.1	1,125.7	645.8	628.8	17.00	37.990		
4,600.0	4,545.4	4,514.4	4,326.9	19.7	0.0	-27.67	-259.8	1,158.3	662.9	645.5	17.39	38.121		
4,700.0	4,643.6	4,612.9	4,419.6	20.1	0.0	-27.70	-267.5	1,190.8	680.0	662.2	17.78	38.245		
4,800.0	4,741.9	4,711.5	4,512.3	20.6	0.0	-27.74	-275.2	1,223.4	697.0	678.8	18.17	38.363		
4,900.0	4,840.2	4,810.0	4,604.9	21.1	0.0	-27.77	-282.9	1,256.0	714.1	695.5	18.56	38.473		
5,000.0	4,938.4	4,908.6	4,697.6	21.5	0.0	-27.80	-290.7	1,288.6	731.1	712.2	18.95	38.578		
5,100.0	5,036.7	5,007.1	4,790.3	22.0	0.0	-27.83	-298.4	1,321.1	748.2	728.8	19.34	38.678		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-4NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,105.6	4,883.0	22.5	0.0	-27.85	-306.1	1,353.7	765.2	745.5	19.74	38.772		
5,300.0	5,233.2	5,204.2	4,975.6	23.0	0.0	-27.88	-313.8	1,386.3	782.3	762.1	20.13	38.862		
5,400.0	5,331.5	5,302.7	5,068.3	23.4	0.0	-27.91	-321.5	1,418.8	799.3	778.8	20.52	38.947		
5,500.0	5,429.7	5,401.2	5,161.0	23.9	0.0	-27.93	-329.2	1,451.4	816.4	795.5	20.92	39.028		
5,600.0	5,528.0	5,499.8	5,253.7	24.4	0.0	-27.95	-336.9	1,484.0	833.4	812.1	21.31	39.106		
5,700.0	5,626.2	5,598.3	5,346.3	24.9	0.0	-27.98	-344.7	1,516.5	850.5	828.8	21.71	39.179		
5,800.0	5,724.5	5,696.8	5,439.0	25.3	0.0	-28.00	-352.4	1,549.1	867.5	845.4	22.10	39.250		
5,900.0	5,822.8	5,795.4	5,531.7	25.8	0.0	-28.02	-360.1	1,581.7	884.6	862.1	22.50	39.317		
6,000.0	5,921.0	5,893.9	5,624.4	26.3	0.0	-28.04	-367.8	1,614.2	901.6	878.8	22.90	39.381		
6,100.0	6,019.3	5,992.4	5,717.1	26.8	0.0	-28.06	-375.5	1,646.8	918.7	895.4	23.29	39.442		
6,200.0	6,117.6	6,091.0	5,809.7	27.2	0.0	-28.08	-383.2	1,679.4	935.8	912.1	23.69	39.501		
6,300.0	6,215.8	6,189.5	5,902.4	27.7	0.0	-28.09	-390.9	1,711.9	952.8	928.7	24.09	39.557		
6,400.0	6,314.1	6,288.0	5,995.1	28.2	0.0	-28.11	-398.6	1,744.5	969.9	945.4	24.48	39.611		
6,500.0	6,412.3	6,386.6	6,087.8	28.7	0.0	-28.13	-406.4	1,777.1	986.9	962.0	24.88	39.663		
6,600.0	6,510.6	6,485.1	6,180.4	29.1	0.0	-28.14	-414.1	1,809.6	1,004.0	978.7	25.28	39.712		
6,700.0	6,608.9	6,583.6	6,273.1	29.6	0.0	-28.16	-421.8	1,842.2	1,021.0	995.3	25.68	39.760		
6,800.0	6,707.4	6,681.8	6,365.4	30.1	0.0	23.89	-429.5	1,874.6	1,037.9	1,011.9	26.03	39.868		
6,900.0	6,804.5	6,777.1	6,455.1	30.5	0.0	54.28	-436.9	1,906.2	1,054.6	1,028.1	26.51	39.782		
7,000.0	6,897.3	6,866.8	6,539.4	30.9	0.0	66.21	-444.0	1,935.8	1,071.7	1,044.8	26.86	39.896		
7,100.0	6,982.9	6,948.0	6,615.8	31.3	0.0	72.22	-450.3	1,962.7	1,090.4	1,063.3	27.05	40.306		
7,200.0	7,058.8	7,040.6	6,703.0	31.5	0.0	76.29	-452.7	1,993.3	1,111.6	1,084.3	27.28	40.746		
7,300.0	7,122.6	7,155.5	6,810.1	31.7	0.0	79.64	-435.3	2,030.7	1,134.3	1,106.7	27.62	41.064		
7,400.0	7,172.5	7,301.3	6,937.7	31.7	0.0	82.89	-381.3	2,074.9	1,157.1	1,129.1	28.00	41.329		
7,500.0	7,206.8	7,497.7	7,081.6	31.7	0.0	86.34	-258.6	2,124.4	1,177.3	1,149.1	28.24	41.697		
7,600.0	7,224.5	7,737.3	7,191.6	31.7	0.0	88.88	-51.2	2,161.3	1,190.0	1,161.7	28.32	42.025		
7,700.0	7,227.0	7,962.2	7,217.0	31.6	0.0	89.52	171.0	2,168.4	1,191.8	1,163.2	28.55	41.743		
7,800.0	7,227.0	8,062.2	7,217.0	31.7	0.0	89.52	271.0	2,167.5	1,191.8	1,162.9	28.92	41.212		
7,900.0	7,227.0	8,162.2	7,217.0	31.8	0.0	89.52	371.0	2,166.7	1,191.8	1,162.4	29.39	40.550		
8,000.0	7,227.0	8,262.2	7,217.0	32.0	0.0	89.52	471.0	2,165.9	1,191.8	1,161.8	29.96	39.780		
8,100.0	7,227.0	8,362.2	7,217.0	32.5	0.0	89.52	571.0	2,165.0	1,191.8	1,161.2	30.62	38.922		
8,200.0	7,227.0	8,462.2	7,217.0	33.0	0.0	89.52	671.0	2,164.2	1,191.8	1,160.4	31.37	37.996		
8,300.0	7,227.0	8,562.2	7,217.0	33.7	0.0	89.52	771.0	2,163.4	1,191.8	1,159.6	32.19	37.022		
8,400.0	7,227.0	8,662.2	7,217.0	34.6	0.0	89.52	871.0	2,162.6	1,191.8	1,158.7	33.09	36.016		
8,500.0	7,227.0	8,762.2	7,217.0	35.5	0.0	89.52	971.0	2,161.7	1,191.8	1,157.7	34.06	34.993		
8,600.0	7,227.0	8,862.2	7,217.0	36.5	0.0	89.52	1,071.0	2,160.9	1,191.8	1,156.7	35.09	33.967		
8,700.0	7,227.0	8,962.2	7,217.0	37.5	0.0	89.52	1,171.0	2,160.1	1,191.8	1,155.6	36.17	32.947		
8,800.0	7,227.0	9,062.2	7,217.0	38.6	0.0	89.52	1,271.0	2,159.3	1,191.8	1,154.5	37.31	31.941		
8,900.0	7,227.0	9,162.2	7,217.0	39.8	0.0	89.52	1,371.0	2,158.4	1,191.8	1,153.3	38.50	30.958		
9,000.0	7,227.0	9,262.2	7,217.0	41.0	0.0	89.52	1,471.0	2,157.6	1,191.8	1,152.1	39.73	30.000		
9,100.0	7,227.0	9,362.2	7,217.0	42.2	0.0	89.52	1,571.0	2,156.8	1,191.8	1,150.8	40.99	29.072		
9,200.0	7,227.0	9,462.2	7,217.0	43.5	0.0	89.52	1,671.0	2,156.0	1,191.8	1,149.5	42.30	28.176		
9,300.0	7,227.0	9,562.2	7,217.0	44.8	0.0	89.52	1,771.0	2,155.1	1,191.8	1,148.1	43.63	27.313		
9,400.0	7,227.0	9,662.2	7,217.0	46.1	0.0	89.52	1,871.0	2,154.3	1,191.8	1,146.8	45.00	26.484		
9,500.0	7,227.0	9,762.2	7,217.0	47.5	0.0	89.52	1,971.0	2,153.5	1,191.8	1,145.4	46.39	25.689		
9,600.0	7,227.0	9,862.2	7,217.0	48.9	0.0	89.52	2,071.0	2,152.6	1,191.8	1,144.0	47.81	24.928		
9,700.0	7,227.0	9,962.2	7,217.0	50.3	0.0	89.52	2,171.0	2,151.8	1,191.8	1,142.5	49.25	24.199		
9,800.0	7,227.0	10,062.2	7,217.0	51.7	0.0	89.52	2,271.0	2,151.0	1,191.8	1,141.1	50.71	23.502		
9,900.0	7,227.0	10,162.2	7,217.0	53.2	0.0	89.52	2,371.0	2,150.2	1,191.8	1,139.6	52.19	22.836		
10,000.0	7,227.0	10,262.2	7,217.0	54.7	0.0	89.52	2,470.9	2,149.3	1,191.8	1,138.1	53.69	22.199		
10,100.0	7,227.0	10,362.2	7,217.0	56.2	0.0	89.52	2,570.9	2,148.5	1,191.8	1,136.6	55.20	21.591		
10,200.0	7,227.0	10,462.2	7,217.0	57.7	0.0	89.52	2,670.9	2,147.7	1,191.8	1,135.0	56.73	21.010		
10,300.0	7,227.0	10,562.2	7,217.0	59.2	0.0	89.52	2,770.9	2,146.9	1,191.8	1,133.5	58.27	20.454		

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

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

Offset Design S19-T1S-R65W - CONNER 19-18-4NXH - OH - PLAN #1													Offset Site Error:	0.0 usft
Survey Program: 0-													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	7,227.0	10,662.2	7,217.0	60.7	0.0	89.52	2,870.9	2,146.0	1,191.8	1,132.0	59.82	19.923		
10,500.0	7,227.0	10,762.2	7,217.0	62.3	0.0	89.52	2,970.9	2,145.2	1,191.8	1,130.4	61.38	19.415		
10,600.0	7,227.0	10,862.2	7,217.0	63.8	0.0	89.52	3,070.9	2,144.4	1,191.8	1,128.8	62.96	18.929		
10,700.0	7,227.0	10,962.2	7,217.0	65.4	0.0	89.52	3,170.9	2,143.5	1,191.8	1,127.2	64.54	18.465		
10,800.0	7,227.0	11,062.2	7,217.0	67.0	0.0	89.52	3,270.9	2,142.7	1,191.8	1,125.6	66.14	18.019		
10,900.0	7,227.0	11,162.2	7,217.0	68.6	0.0	89.52	3,370.9	2,141.9	1,191.8	1,124.0	67.74	17.593		
11,000.0	7,227.0	11,262.2	7,217.0	70.2	0.0	89.52	3,470.9	2,141.1	1,191.8	1,122.4	69.35	17.185		
11,100.0	7,227.0	11,362.2	7,217.0	71.8	0.0	89.52	3,570.9	2,140.2	1,191.8	1,120.8	70.97	16.793		
11,200.0	7,227.0	11,462.2	7,217.0	73.4	0.0	89.52	3,670.9	2,139.4	1,191.8	1,119.2	72.59	16.417		
11,300.0	7,227.0	11,562.2	7,217.0	75.0	0.0	89.52	3,770.9	2,138.6	1,191.8	1,117.5	74.23	16.056		
11,400.0	7,227.0	11,662.2	7,217.0	76.6	0.0	89.52	3,870.9	2,137.8	1,191.8	1,115.9	75.86	15.710		
11,500.0	7,227.0	11,762.2	7,217.0	78.2	0.0	89.52	3,970.9	2,136.9	1,191.8	1,114.3	77.51	15.377		
11,600.0	7,227.0	11,862.2	7,217.0	79.9	0.0	89.52	4,070.9	2,136.1	1,191.8	1,112.6	79.15	15.056		
11,700.0	7,227.0	11,962.2	7,217.0	81.5	0.0	89.52	4,170.9	2,135.3	1,191.8	1,111.0	80.81	14.748		
11,800.0	7,227.0	12,062.2	7,217.0	83.2	0.0	89.52	4,270.9	2,134.5	1,191.8	1,109.3	82.47	14.452		
11,900.0	7,227.0	12,162.2	7,217.0	84.8	0.0	89.52	4,370.9	2,133.6	1,191.8	1,107.6	84.13	14.166		
12,000.0	7,227.0	12,262.2	7,217.0	86.5	0.0	89.52	4,470.9	2,132.8	1,191.8	1,106.0	85.79	13.891		
12,100.0	7,227.0	12,362.2	7,217.0	88.1	0.0	89.52	4,570.9	2,132.0	1,191.8	1,104.3	87.46	13.626		
12,200.0	7,227.0	12,462.2	7,217.0	89.8	0.0	89.52	4,670.9	2,131.1	1,191.8	1,102.6	89.14	13.370		
12,300.0	7,227.0	12,562.2	7,217.0	91.4	0.0	89.52	4,770.9	2,130.3	1,191.8	1,101.0	90.82	13.123		
12,400.0	7,227.0	12,662.2	7,217.0	93.1	0.0	89.52	4,870.9	2,129.5	1,191.8	1,099.3	92.50	12.885		
12,500.0	7,227.0	12,762.2	7,217.0	94.8	0.0	89.52	4,970.9	2,128.7	1,191.8	1,097.6	94.18	12.654		
12,600.0	7,227.0	12,862.2	7,217.0	96.5	0.0	89.52	5,070.9	2,127.8	1,191.8	1,095.9	95.87	12.432		
12,700.0	7,227.0	12,962.2	7,217.0	98.1	0.0	89.52	5,170.9	2,127.0	1,191.8	1,094.2	97.56	12.216		
12,800.0	7,227.0	13,062.2	7,217.0	99.8	0.0	89.52	5,270.9	2,126.2	1,191.8	1,092.5	99.25	12.008		
12,900.0	7,227.0	13,162.2	7,217.0	101.5	0.0	89.52	5,370.9	2,125.4	1,191.8	1,090.8	100.94	11.806		
13,000.0	7,227.0	13,262.2	7,217.0	103.2	0.0	89.52	5,470.8	2,124.5	1,191.8	1,089.1	102.64	11.611		
13,100.0	7,227.0	13,362.2	7,217.0	104.9	0.0	89.52	5,570.8	2,123.7	1,191.8	1,087.4	104.34	11.422		
13,200.0	7,227.0	13,462.2	7,217.0	106.6	0.0	89.52	5,670.8	2,122.9	1,191.8	1,085.7	106.04	11.239		
13,300.0	7,227.0	13,562.2	7,217.0	108.3	0.0	89.52	5,770.8	2,122.0	1,191.8	1,084.0	107.74	11.061		
13,400.0	7,227.0	13,662.2	7,217.0	110.0	0.0	89.52	5,870.8	2,121.2	1,191.8	1,082.3	109.45	10.889		
13,500.0	7,227.0	13,762.2	7,217.0	111.7	0.0	89.52	5,970.8	2,120.4	1,191.8	1,080.6	111.16	10.721		
13,600.0	7,227.0	13,862.2	7,217.0	113.4	0.0	89.52	6,070.8	2,119.6	1,191.8	1,078.9	112.87	10.559		
13,700.0	7,227.0	13,962.2	7,217.0	115.1	0.0	89.52	6,170.8	2,118.7	1,191.8	1,077.2	114.58	10.401		
13,800.0	7,227.0	14,062.2	7,217.0	116.8	0.0	89.52	6,270.8	2,117.9	1,191.8	1,075.5	116.29	10.248		
13,900.0	7,227.0	14,162.2	7,217.0	118.5	0.0	89.52	6,370.8	2,117.1	1,191.8	1,073.8	118.00	10.099		
14,000.0	7,227.0	14,262.2	7,217.0	120.2	0.0	89.52	6,470.8	2,116.3	1,191.8	1,072.1	119.72	9.955		
14,100.0	7,227.0	14,362.2	7,217.0	121.9	0.0	89.52	6,570.8	2,115.4	1,191.8	1,070.3	121.44	9.814		
14,200.0	7,227.0	14,462.2	7,217.0	123.6	0.0	89.52	6,670.8	2,114.6	1,191.8	1,068.6	123.16	9.677		
14,300.0	7,227.0	14,562.2	7,217.0	125.3	0.0	89.52	6,770.8	2,113.8	1,191.8	1,066.9	124.88	9.544		
14,400.0	7,227.0	14,662.2	7,217.0	127.1	0.0	89.52	6,870.8	2,113.0	1,191.8	1,065.2	126.60	9.414		
14,500.0	7,227.0	14,762.2	7,217.0	128.8	0.0	89.52	6,970.8	2,112.1	1,191.8	1,063.5	128.32	9.288		
14,600.0	7,227.0	14,862.2	7,217.0	130.5	0.0	89.52	7,070.8	2,111.3	1,191.8	1,061.7	130.04	9.165		
14,700.0	7,227.0	14,962.2	7,217.0	132.2	0.0	89.52	7,170.8	2,110.5	1,191.8	1,060.0	131.77	9.045		
14,800.0	7,227.0	15,062.2	7,217.0	133.9	0.0	89.52	7,270.8	2,109.6	1,191.8	1,058.3	133.49	8.928		
14,900.0	7,227.0	15,162.2	7,217.0	135.7	0.0	89.52	7,370.8	2,108.8	1,191.8	1,056.6	135.22	8.814		
15,000.0	7,227.0	15,262.2	7,217.0	137.4	0.0	89.52	7,470.8	2,108.0	1,191.8	1,054.8	136.95	8.702		
15,100.0	7,227.0	15,362.2	7,217.0	139.1	0.0	89.52	7,570.8	2,107.2	1,191.8	1,053.1	138.67	8.594		
15,200.0	7,227.0	15,462.2	7,217.0	140.8	0.0	89.52	7,670.8	2,106.3	1,191.8	1,051.4	140.40	8.488		
15,300.0	7,227.0	15,562.2	7,217.0	142.5	0.0	89.52	7,770.8	2,105.5	1,191.8	1,049.6	142.13	8.385		
15,400.0	7,227.0	15,662.2	7,217.0	144.3	0.0	89.52	7,870.8	2,104.7	1,191.8	1,047.9	143.87	8.284		
15,500.0	7,227.0	15,762.2	7,217.0	146.0	0.0	89.52	7,970.8	2,103.9	1,191.8	1,046.2	145.60	8.185		

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

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		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)					
15,600.0	7,227.0	15,862.2	7,217.0	147.7	0.0	89.52	8,070.8	2,103.0	1,191.8	1,044.4	147.33	8.089	
15,700.0	7,227.0	15,962.2	7,217.0	149.5	0.0	89.52	8,170.8	2,102.2	1,191.8	1,042.7	149.06	7.995	
15,800.0	7,227.0	16,062.2	7,217.0	151.2	0.0	89.52	8,270.8	2,101.4	1,191.8	1,041.0	150.80	7.903	
15,900.0	7,227.0	16,162.2	7,217.0	152.9	0.0	89.52	8,370.7	2,100.6	1,191.8	1,039.2	152.53	7.813	
16,000.0	7,227.0	16,262.2	7,217.0	154.7	0.0	89.52	8,470.7	2,099.7	1,191.8	1,037.5	154.27	7.725	
16,100.0	7,227.0	16,362.2	7,217.0	156.4	0.0	89.52	8,570.7	2,098.9	1,191.8	1,035.8	156.01	7.639	
16,200.0	7,227.0	16,462.2	7,217.0	158.1	0.0	89.52	8,670.7	2,098.1	1,191.8	1,034.0	157.74	7.555	
16,300.0	7,227.0	16,562.2	7,217.0	159.9	0.0	89.52	8,770.7	2,097.2	1,191.8	1,032.3	159.48	7.473	
16,400.0	7,227.0	16,662.2	7,217.0	161.6	0.0	89.52	8,870.7	2,096.4	1,191.8	1,030.6	161.22	7.392	
16,500.0	7,227.0	16,762.2	7,217.0	163.3	0.0	89.52	8,970.7	2,095.6	1,191.8	1,028.8	162.96	7.313	
16,600.0	7,227.0	16,862.2	7,217.0	165.1	0.0	89.52	9,070.7	2,094.8	1,191.8	1,027.1	164.70	7.236	
16,700.0	7,227.0	16,962.2	7,217.0	166.8	0.0	89.52	9,170.7	2,093.9	1,191.8	1,025.3	166.44	7.160	
16,800.0	7,227.0	17,062.2	7,217.0	168.5	0.0	89.52	9,270.7	2,093.1	1,191.8	1,023.6	168.18	7.086	
16,900.0	7,227.0	17,162.2	7,217.0	170.3	0.0	89.52	9,370.7	2,092.3	1,191.8	1,021.8	169.92	7.014	
17,000.0	7,227.0	17,262.2	7,217.0	172.0	0.0	89.52	9,470.7	2,091.5	1,191.8	1,020.1	171.66	6.943	
17,100.0	7,227.0	17,362.2	7,217.0	173.7	0.0	89.52	9,570.7	2,090.6	1,191.8	1,018.4	173.40	6.873	
17,200.0	7,227.0	17,462.2	7,217.0	175.5	0.0	89.52	9,670.7	2,089.8	1,191.8	1,016.6	175.14	6.804	
17,300.0	7,227.0	17,562.2	7,217.0	177.2	0.0	89.52	9,770.7	2,089.0	1,191.8	1,014.9	176.89	6.737	
17,400.0	7,227.0	17,662.2	7,217.0	179.0	0.0	89.52	9,870.7	2,088.1	1,191.8	1,013.1	178.63	6.672	
17,451.3	7,227.0	17,713.6	7,217.0	179.9	0.0	89.52	9,922.0	2,087.7	1,191.8	1,012.2	179.53	6.638 SF	

Company:	PetroShare Corp	Local Co-ordinate Reference:	Well CONNER 19-18-3NXH
Project:	ADAMS COUNTY, CO	TVD Reference:	13' KB @ 5155.0usft
Reference Site:	S19-T1S-R65W	MD Reference:	13' KB @ 5155.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	CONNER 19-18-3NXH	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	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		
13,700.0	7,227.0	7,158.0	7,158.0	115.1	26.6	-90.00	8,132.6	30.1	2,166.1	2,077.1	89.03	24.330		
13,800.0	7,227.0	7,158.0	7,158.0	116.8	26.6	-90.00	8,132.6	30.1	2,075.1	1,983.8	91.34	22.719		
13,900.0	7,227.0	7,158.0	7,158.0	118.5	26.6	-90.00	8,132.6	30.1	1,985.0	1,891.2	93.86	21.149		
14,000.0	7,227.0	7,158.0	7,158.0	120.2	26.6	-90.00	8,132.6	30.1	1,895.9	1,799.3	96.62	19.623		
14,100.0	7,227.0	7,158.0	7,158.0	121.9	26.6	-90.00	8,132.6	30.1	1,808.0	1,708.3	99.64	18.146		
14,200.0	7,227.0	7,158.0	7,158.0	123.6	26.6	-90.00	8,132.6	30.1	1,721.3	1,618.4	102.94	16.721		
14,300.0	7,227.0	7,158.0	7,158.0	125.3	26.6	-90.00	8,132.6	30.1	1,636.2	1,529.6	106.56	15.354		
14,400.0	7,227.0	7,158.0	7,158.0	127.1	26.6	-90.00	8,132.6	30.1	1,552.8	1,442.3	110.53	14.049		
14,500.0	7,227.0	7,158.0	7,158.0	128.8	26.6	-90.00	8,132.6	30.1	1,471.6	1,356.7	114.87	12.811		
14,600.0	7,227.0	7,158.0	7,158.0	130.5	26.6	-90.00	8,132.6	30.1	1,392.7	1,273.1	119.60	11.645		
14,700.0	7,227.0	7,158.0	7,158.0	132.2	26.6	-90.00	8,132.6	30.1	1,316.8	1,192.0	124.74	10.556		
14,800.0	7,227.0	7,158.0	7,158.0	133.9	26.6	-90.00	8,132.6	30.1	1,244.2	1,113.9	130.29	9.550		
14,900.0	7,227.0	7,158.0	7,158.0	135.7	26.6	-90.00	8,132.6	30.1	1,175.7	1,039.5	136.21	8.632		
15,000.0	7,227.0	7,158.0	7,158.0	137.4	26.6	-90.00	8,132.6	30.1	1,112.0	969.6	142.44	7.807		
15,100.0	7,227.0	7,158.0	7,158.0	139.1	26.6	-90.00	8,132.6	30.1	1,053.9	905.1	148.84	7.081		
15,200.0	7,227.0	7,158.0	7,158.0	140.8	26.6	-90.00	8,132.6	30.1	1,002.5	847.2	155.21	6.459		
15,300.0	7,227.0	7,158.0	7,158.0	142.5	26.6	-90.00	8,132.6	30.1	958.7	797.4	161.27	5.945		
15,400.0	7,227.0	7,158.0	7,158.0	144.3	26.6	-90.00	8,132.6	30.1	923.7	757.1	166.66	5.543		
15,500.0	7,227.0	7,158.0	7,158.0	146.0	26.6	-90.00	8,132.6	30.1	898.6	727.7	170.96	5.256		
15,600.0	7,227.0	7,158.0	7,158.0	147.7	26.6	-90.00	8,132.6	30.1	884.1	710.3	173.80	5.087		
15,679.0	7,227.0	7,158.0	7,158.0	149.1	26.6	-90.00	8,132.6	30.1	880.6	705.8	174.83	5.037 CC, ES		
15,700.0	7,227.0	7,158.0	7,158.0	149.5	26.6	-90.00	8,132.6	30.1	880.9	705.9	174.92	5.036 SF		
15,800.0	7,227.0	7,158.0	7,158.0	151.2	26.6	-90.00	8,132.6	30.1	888.9	714.6	174.22	5.102		
15,900.0	7,227.0	7,158.0	7,158.0	152.9	26.6	-90.00	8,132.6	30.1	907.9	736.1	171.84	5.284		
16,000.0	7,227.0	7,158.0	7,158.0	154.7	26.6	-90.00	8,132.6	30.1	937.3	769.2	168.04	5.578		
16,100.0	7,227.0	7,158.0	7,158.0	156.4	26.6	-90.00	8,132.6	30.1	976.1	812.8	163.21	5.980		
16,200.0	7,227.0	7,158.0	7,158.0	158.1	26.6	-90.00	8,132.6	30.1	1,023.2	865.4	157.74	6.486		
16,300.0	7,227.0	7,158.0	7,158.0	159.9	26.6	-90.00	8,132.6	30.1	1,077.5	925.6	151.96	7.091		
16,400.0	7,227.0	7,158.0	7,158.0	161.6	26.6	-90.00	8,132.6	30.1	1,138.1	992.0	146.14	7.788		
16,500.0	7,227.0	7,158.0	7,158.0	163.3	26.6	-90.00	8,132.6	30.1	1,203.9	1,063.5	140.46	8.571		
16,600.0	7,227.0	7,158.0	7,158.0	165.1	26.6	-90.00	8,132.6	30.1	1,274.2	1,139.2	135.05	9.435		
16,700.0	7,227.0	7,158.0	7,158.0	166.8	26.6	-90.00	8,132.6	30.1	1,348.3	1,218.3	129.96	10.374		
16,800.0	7,227.0	7,158.0	7,158.0	168.5	26.6	-90.00	8,132.6	30.1	1,425.5	1,300.3	125.23	11.383		
16,900.0	7,227.0	7,158.0	7,158.0	170.3	26.6	-90.00	8,132.6	30.1	1,505.4	1,384.5	120.87	12.455		
17,000.0	7,227.0	7,158.0	7,158.0	172.0	26.6	-90.00	8,132.6	30.1	1,587.6	1,470.7	116.86	13.586		
17,100.0	7,227.0	7,158.0	7,158.0	173.7	26.6	-90.00	8,132.6	30.1	1,671.7	1,558.5	113.18	14.771		
17,200.0	7,227.0	7,158.0	7,158.0	175.5	26.6	-90.00	8,132.6	30.1	1,757.5	1,647.7	109.81	16.004		
17,300.0	7,227.0	7,158.0	7,158.0	177.2	26.6	-90.00	8,132.6	30.1	1,844.7	1,738.0	106.74	17.283		
17,400.0	7,227.0	7,158.0	7,158.0	179.0	26.6	-90.00	8,132.6	30.1	1,933.2	1,829.3	103.92	18.602		
17,451.3	7,227.0	7,158.0	7,158.0	179.9	26.6	-90.00	8,132.6	30.1	1,979.0	1,876.5	102.57	19.294		

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

Offset Design S19-T1S-R65W - Milheim #1 (P&A) - EXISTING - NO SURVEYS (P&A)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,500.0	7,227.0	7,158.0	7,158.0	94.8	26.6	-90.00	5,915.5	-1,039.4	2,194.8	2,078.9	115.87	18.941		
12,600.0	7,227.0	7,158.0	7,158.0	96.5	26.6	-90.00	5,915.5	-1,039.4	2,152.4	2,033.9	118.53	18.160		
12,700.0	7,227.0	7,158.0	7,158.0	98.1	26.6	-90.00	5,915.5	-1,039.4	2,114.0	1,992.8	121.14	17.450		
12,800.0	7,227.0	7,158.0	7,158.0	99.8	26.6	-90.00	5,915.5	-1,039.4	2,079.6	1,955.9	123.69	16.813		
12,900.0	7,227.0	7,158.0	7,158.0	101.5	26.6	-90.00	5,915.5	-1,039.4	2,049.5	1,923.4	126.14	16.249		
13,000.0	7,227.0	7,158.0	7,158.0	103.2	26.6	-90.00	5,915.5	-1,039.4	2,023.9	1,895.5	128.45	15.756		
13,100.0	7,227.0	7,158.0	7,158.0	104.9	26.6	-90.00	5,915.5	-1,039.4	2,003.0	1,872.4	130.61	15.336		
13,200.0	7,227.0	7,158.0	7,158.0	106.6	26.6	-90.00	5,915.5	-1,039.4	1,987.0	1,854.4	132.59	14.986		
13,300.0	7,227.0	7,158.0	7,158.0	108.3	26.6	-90.00	5,915.5	-1,039.4	1,975.8	1,841.5	134.34	14.707		
13,400.0	7,227.0	7,158.0	7,158.0	110.0	26.6	-90.00	5,915.5	-1,039.4	1,969.7	1,833.8	135.87	14.497		
13,470.8	7,227.0	7,158.0	7,158.0	111.2	26.6	-90.00	5,915.5	-1,039.4	1,968.4	1,831.6	136.79	14.390 CC		
13,500.0	7,227.0	7,158.0	7,158.0	111.7	26.6	-90.00	5,915.5	-1,039.4	1,968.6	1,831.5	137.13	14.356 ES		
13,600.0	7,227.0	7,158.0	7,158.0	113.4	26.6	-90.00	5,915.5	-1,039.4	1,972.7	1,834.5	138.14	14.281		
13,700.0	7,227.0	7,158.0	7,158.0	115.1	26.6	-90.00	5,915.5	-1,039.4	1,981.7	1,842.9	138.87	14.271 SF		
13,800.0	7,227.0	7,158.0	7,158.0	116.8	26.6	-90.00	5,915.5	-1,039.4	1,995.8	1,856.4	139.33	14.324		
13,900.0	7,227.0	7,158.0	7,158.0	118.5	26.6	-90.00	5,915.5	-1,039.4	2,014.7	1,875.1	139.53	14.439		
14,000.0	7,227.0	7,158.0	7,158.0	120.2	26.6	-90.00	5,915.5	-1,039.4	2,038.3	1,898.8	139.48	14.614		
14,100.0	7,227.0	7,158.0	7,158.0	121.9	26.6	-90.00	5,915.5	-1,039.4	2,066.5	1,927.3	139.20	14.846		
14,200.0	7,227.0	7,158.0	7,158.0	123.6	26.6	-90.00	5,915.5	-1,039.4	2,099.1	1,960.4	138.70	15.134		
14,300.0	7,227.0	7,158.0	7,158.0	125.3	26.6	-90.00	5,915.5	-1,039.4	2,135.9	1,997.9	138.02	15.475		
14,400.0	7,227.0	7,158.0	7,158.0	127.1	26.6	-90.00	5,915.5	-1,039.4	2,176.7	2,039.5	137.17	15.868		
14,500.0	7,227.0	7,158.0	7,158.0	128.8	26.6	-90.00	5,915.5	-1,039.4	2,221.2	2,085.1	136.19	16.310		

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

Offset Design S19-T1S-R65W - Price 7-19 (SI) - EXISTING - NO SURVEYS (SI)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,500.0	7,227.0	7,158.0	7,158.0	35.5	26.6	-90.00	3,156.8	718.6	2,210.0	2,151.7	58.27	37.929		
8,600.0	7,227.0	7,158.0	7,158.0	36.5	26.6	-90.00	3,156.8	718.6	2,110.6	2,052.2	58.38	36.152		
8,700.0	7,227.0	7,158.0	7,158.0	37.5	26.6	-90.00	3,156.8	718.6	2,011.2	1,952.7	58.51	34.375		
8,800.0	7,227.0	7,158.0	7,158.0	38.6	26.6	-90.00	3,156.8	718.6	1,912.0	1,853.3	58.65	32.598		
8,900.0	7,227.0	7,158.0	7,158.0	39.8	26.6	-90.00	3,156.8	718.6	1,812.7	1,753.9	58.81	30.822		
9,000.0	7,227.0	7,158.0	7,158.0	41.0	26.6	-90.00	3,156.8	718.6	1,713.6	1,654.6	59.00	29.046		
9,100.0	7,227.0	7,158.0	7,158.0	42.2	26.6	-90.00	3,156.8	718.6	1,614.6	1,555.4	59.21	27.270		
9,200.0	7,227.0	7,158.0	7,158.0	43.5	26.6	-90.00	3,156.8	718.6	1,515.7	1,456.3	59.45	25.496		
9,300.0	7,227.0	7,158.0	7,158.0	44.8	26.6	-90.00	3,156.8	718.6	1,417.0	1,357.3	59.73	23.723		
9,400.0	7,227.0	7,158.0	7,158.0	46.1	26.6	-90.00	3,156.8	718.6	1,318.5	1,258.4	60.06	21.951		
9,500.0	7,227.0	7,158.0	7,158.0	47.5	26.6	-90.00	3,156.8	718.6	1,220.2	1,159.7	60.46	20.182		
9,600.0	7,227.0	7,158.0	7,158.0	48.9	26.6	-90.00	3,156.8	718.6	1,122.2	1,061.2	60.94	18.416		
9,700.0	7,227.0	7,158.0	7,158.0	50.3	26.6	-90.00	3,156.8	718.6	1,024.6	963.1	61.52	16.654		
9,800.0	7,227.0	7,158.0	7,158.0	51.7	26.6	-90.00	3,156.8	718.6	927.5	865.2	62.25	14.898		
9,900.0	7,227.0	7,158.0	7,158.0	53.2	26.6	-90.00	3,156.8	718.6	831.1	767.9	63.19	13.153		
10,000.0	7,227.0	7,158.0	7,158.0	54.7	26.6	-90.00	3,156.8	718.6	735.6	671.2	64.41	11.422		
10,100.0	7,227.0	7,158.0	7,158.0	56.2	26.6	-90.00	3,156.8	718.6	641.6	575.5	66.04	9.715		
10,200.0	7,227.0	7,158.0	7,158.0	57.7	26.6	-90.00	3,156.8	718.6	549.6	481.4	68.28	8.049		
10,300.0	7,227.0	7,158.0	7,158.0	59.2	26.6	-90.00	3,156.8	718.6	461.0	389.6	71.45	6.452		
10,400.0	7,227.0	7,158.0	7,158.0	60.7	26.6	-90.00	3,156.8	718.6	378.2	302.2	75.97	4.978		
10,500.0	7,227.0	7,158.0	7,158.0	62.3	26.6	-90.00	3,156.8	718.6	305.8	223.7	82.09	3.725		
10,600.0	7,227.0	7,158.0	7,158.0	63.8	26.6	-90.00	3,156.8	718.6	252.9	164.3	88.62	2.854		
10,697.7	7,227.0	7,158.0	7,158.0	65.4	26.6	-90.00	3,156.8	718.6	233.3	142.7	90.63	2.574 CC, ES, SF		
10,700.0	7,227.0	7,158.0	7,158.0	65.4	26.6	-90.00	3,156.8	718.6	233.3	142.7	90.58	2.576		
10,800.0	7,227.0	7,158.0	7,158.0	67.0	26.6	-90.00	3,156.8	718.6	254.8	170.2	84.51	3.015		
10,900.0	7,227.0	7,158.0	7,158.0	68.6	26.6	-90.00	3,156.8	718.6	308.8	233.1	75.72	4.079		
11,000.0	7,227.0	7,158.0	7,158.0	70.2	26.6	-90.00	3,156.8	718.6	381.9	313.0	68.87	5.545		
11,100.0	7,227.0	7,158.0	7,158.0	71.8	26.6	-90.00	3,156.8	718.6	465.1	400.6	64.44	7.217		
11,200.0	7,227.0	7,158.0	7,158.0	73.4	26.6	-90.00	3,156.8	718.6	553.9	492.2	61.69	8.978		
11,300.0	7,227.0	7,158.0	7,158.0	75.0	26.6	-90.00	3,156.8	718.6	645.9	586.0	59.98	10.770		
11,400.0	7,227.0	7,158.0	7,158.0	76.6	26.6	-90.00	3,156.8	718.6	740.1	681.2	58.89	12.568		
11,500.0	7,227.0	7,158.0	7,158.0	78.2	26.6	-90.00	3,156.8	718.6	835.6	777.4	58.18	14.362		
11,600.0	7,227.0	7,158.0	7,158.0	79.9	26.6	-90.00	3,156.8	718.6	932.0	874.3	57.72	16.148		
11,700.0	7,227.0	7,158.0	7,158.0	81.5	26.6	-90.00	3,156.8	718.6	1,029.1	971.7	57.41	17.926		
11,800.0	7,227.0	7,158.0	7,158.0	83.2	26.6	-90.00	3,156.8	718.6	1,126.8	1,069.5	57.21	19.696		
11,900.0	7,227.0	7,158.0	7,158.0	84.8	26.6	-90.00	3,156.8	718.6	1,224.8	1,167.7	57.07	21.459		
12,000.0	7,227.0	7,158.0	7,158.0	86.5	26.6	-90.00	3,156.8	718.6	1,323.1	1,266.1	56.99	23.215		
12,100.0	7,227.0	7,158.0	7,158.0	88.1	26.6	-90.00	3,156.8	718.6	1,421.6	1,364.7	56.94	24.966		
12,200.0	7,227.0	7,158.0	7,158.0	89.8	26.6	-90.00	3,156.8	718.6	1,520.3	1,463.4	56.92	26.711		
12,300.0	7,227.0	7,158.0	7,158.0	91.4	26.6	-90.00	3,156.8	718.6	1,619.2	1,562.3	56.91	28.450		
12,400.0	7,227.0	7,158.0	7,158.0	93.1	26.6	-90.00	3,156.8	718.6	1,718.2	1,661.3	56.92	30.185		
12,500.0	7,227.0	7,158.0	7,158.0	94.8	26.6	-90.00	3,156.8	718.6	1,817.4	1,760.4	56.94	31.915		
12,600.0	7,227.0	7,158.0	7,158.0	96.5	26.6	-90.00	3,156.8	718.6	1,916.6	1,859.6	56.97	33.642		
12,700.0	7,227.0	7,158.0	7,158.0	98.1	26.6	-90.00	3,156.8	718.6	2,015.9	1,958.9	57.00	35.363		
12,800.0	7,227.0	7,158.0	7,158.0	99.8	26.6	-90.00	3,156.8	718.6	2,115.2	2,058.2	57.04	37.081		
12,900.0	7,227.0	7,158.0	7,158.0	101.5	26.6	-90.00	3,156.8	718.6	2,214.7	2,157.6	57.09	38.795		

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

Offset Design S19-T1S-R65W - Putnam 41-18 (PR) - EXISTING - NO SURVEYS (PR)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,700.0	7,227.0	7,158.0	7,158.0	132.2	26.6	90.00	9,163.5	1,773.3	2,177.3	2,099.1	78.19	27.846		
14,800.0	7,227.0	7,158.0	7,158.0	133.9	26.6	90.00	9,163.5	1,773.3	2,086.0	2,005.3	80.69	25.854		
14,900.0	7,227.0	7,158.0	7,158.0	135.7	26.6	90.00	9,163.5	1,773.3	1,995.6	1,912.2	83.45	23.913		
15,000.0	7,227.0	7,158.0	7,158.0	137.4	26.6	90.00	9,163.5	1,773.3	1,906.1	1,819.6	86.52	22.031		
15,100.0	7,227.0	7,158.0	7,158.0	139.1	26.6	90.00	9,163.5	1,773.3	1,817.8	1,727.8	89.93	20.213		
15,200.0	7,227.0	7,158.0	7,158.0	140.8	26.6	90.00	9,163.5	1,773.3	1,730.6	1,636.9	93.71	18.467		
15,300.0	7,227.0	7,158.0	7,158.0	142.5	26.6	90.00	9,163.5	1,773.3	1,645.0	1,547.1	97.91	16.801		
15,400.0	7,227.0	7,158.0	7,158.0	144.3	26.6	90.00	9,163.5	1,773.3	1,561.1	1,458.5	102.57	15.219		
15,500.0	7,227.0	7,158.0	7,158.0	146.0	26.6	90.00	9,163.5	1,773.3	1,479.1	1,371.4	107.73	13.730		
15,600.0	7,227.0	7,158.0	7,158.0	147.7	26.6	90.00	9,163.5	1,773.3	1,399.6	1,286.1	113.43	12.338		
15,700.0	7,227.0	7,158.0	7,158.0	149.5	26.6	90.00	9,163.5	1,773.3	1,322.7	1,203.0	119.71	11.050		
15,800.0	7,227.0	7,158.0	7,158.0	151.2	26.6	90.00	9,163.5	1,773.3	1,249.2	1,122.6	126.58	9.869		
15,900.0	7,227.0	7,158.0	7,158.0	152.9	26.6	90.00	9,163.5	1,773.3	1,179.6	1,045.6	134.05	8.800		
16,000.0	7,227.0	7,158.0	7,158.0	154.7	26.6	90.00	9,163.5	1,773.3	1,114.6	972.6	142.06	7.846		
16,100.0	7,227.0	7,158.0	7,158.0	156.4	26.6	90.00	9,163.5	1,773.3	1,055.1	904.6	150.50	7.011		
16,200.0	7,227.0	7,158.0	7,158.0	158.1	26.6	90.00	9,163.5	1,773.3	1,002.1	842.9	159.17	6.296		
16,300.0	7,227.0	7,158.0	7,158.0	159.9	26.6	90.00	9,163.5	1,773.3	956.6	788.8	167.78	5.702		
16,400.0	7,227.0	7,158.0	7,158.0	161.6	26.6	90.00	9,163.5	1,773.3	919.8	743.9	175.91	5.229		
16,500.0	7,227.0	7,158.0	7,158.0	163.3	26.6	90.00	9,163.5	1,773.3	892.7	709.6	183.08	4.876		
16,600.0	7,227.0	7,158.0	7,158.0	165.1	26.6	90.00	9,163.5	1,773.3	876.2	687.5	188.79	4.641		
16,695.5	7,227.0	7,158.0	7,158.0	166.7	26.6	90.00	9,163.5	1,773.3	871.0	678.5	192.49	4.525 CC		
16,700.0	7,227.0	7,158.0	7,158.0	166.8	26.6	90.00	9,163.5	1,773.3	871.0	678.4	192.62	4.522 ES		
16,800.0	7,227.0	7,158.0	7,158.0	168.5	26.6	90.00	9,163.5	1,773.3	877.3	682.9	194.37	4.513 SF		
16,900.0	7,227.0	7,158.0	7,158.0	170.3	26.6	90.00	9,163.5	1,773.3	894.7	700.7	194.05	4.611		
17,000.0	7,227.0	7,158.0	7,158.0	172.0	26.6	90.00	9,163.5	1,773.3	922.7	730.8	191.91	4.808		
17,100.0	7,227.0	7,158.0	7,158.0	173.7	26.6	90.00	9,163.5	1,773.3	960.4	772.0	188.33	5.099		
17,200.0	7,227.0	7,158.0	7,158.0	175.5	26.6	90.00	9,163.5	1,773.3	1,006.6	822.8	183.74	5.478		
17,300.0	7,227.0	7,158.0	7,158.0	177.2	26.6	90.00	9,163.5	1,773.3	1,060.2	881.7	178.55	5.938		
17,400.0	7,227.0	7,158.0	7,158.0	179.0	26.6	90.00	9,163.5	1,773.3	1,120.3	947.2	173.07	6.473		
17,451.3	7,227.0	7,158.0	7,158.0	179.9	26.6	90.00	9,163.5	1,773.3	1,153.2	983.0	170.24	6.774		

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

Offset Design S19-T1S-R65W - Tracy #1 (PR) - EXISTING - NO SURVEYS (PR)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		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)						
11,300.0	7,227.0	7,158.0	7,158.0	75.0	26.6	90.00	5,962.5	1,202.5	2,216.3	2,159.6	56.66	39.113		
11,400.0	7,227.0	7,158.0	7,158.0	76.6	26.6	90.00	5,962.5	1,202.5	2,117.1	2,060.4	56.65	37.371		
11,500.0	7,227.0	7,158.0	7,158.0	78.2	26.6	90.00	5,962.5	1,202.5	2,017.9	1,961.3	56.65	35.621		
11,600.0	7,227.0	7,158.0	7,158.0	79.9	26.6	90.00	5,962.5	1,202.5	1,918.9	1,862.3	56.66	33.865		
11,700.0	7,227.0	7,158.0	7,158.0	81.5	26.6	90.00	5,962.5	1,202.5	1,820.0	1,763.3	56.70	32.099		
11,800.0	7,227.0	7,158.0	7,158.0	83.2	26.6	90.00	5,962.5	1,202.5	1,721.2	1,664.4	56.76	30.322		
11,900.0	7,227.0	7,158.0	7,158.0	84.8	26.6	90.00	5,962.5	1,202.5	1,622.5	1,565.7	56.87	28.532		
12,000.0	7,227.0	7,158.0	7,158.0	86.5	26.6	90.00	5,962.5	1,202.5	1,524.1	1,467.1	57.02	26.727		
12,100.0	7,227.0	7,158.0	7,158.0	88.1	26.6	90.00	5,962.5	1,202.5	1,425.8	1,368.6	57.25	24.904		
12,200.0	7,227.0	7,158.0	7,158.0	89.8	26.6	90.00	5,962.5	1,202.5	1,327.8	1,270.2	57.58	23.060		
12,300.0	7,227.0	7,158.0	7,158.0	91.4	26.6	90.00	5,962.5	1,202.5	1,230.1	1,172.1	58.05	21.191		
12,400.0	7,227.0	7,158.0	7,158.0	93.1	26.6	90.00	5,962.5	1,202.5	1,132.9	1,074.2	58.71	19.296		
12,500.0	7,227.0	7,158.0	7,158.0	94.8	26.6	90.00	5,962.5	1,202.5	1,036.1	976.5	59.64	17.371		
12,600.0	7,227.0	7,158.0	7,158.0	96.5	26.6	90.00	5,962.5	1,202.5	940.0	879.1	60.97	15.418		
12,700.0	7,227.0	7,158.0	7,158.0	98.1	26.6	90.00	5,962.5	1,202.5	844.9	782.0	62.85	13.442		
12,800.0	7,227.0	7,158.0	7,158.0	99.8	26.6	90.00	5,962.5	1,202.5	751.0	685.4	65.54	11.458		
12,900.0	7,227.0	7,158.0	7,158.0	101.5	26.6	90.00	5,962.5	1,202.5	658.9	589.5	69.40	9.493		
13,000.0	7,227.0	7,158.0	7,158.0	103.2	26.6	90.00	5,962.5	1,202.5	569.4	494.5	74.97	7.595		
13,100.0	7,227.0	7,158.0	7,158.0	104.9	26.6	90.00	5,962.5	1,202.5	484.1	401.2	82.99	5.834		
13,200.0	7,227.0	7,158.0	7,158.0	106.6	26.6	90.00	5,962.5	1,202.5	405.6	311.3	94.34	4.300		
13,300.0	7,227.0	7,158.0	7,158.0	108.3	26.6	90.00	5,962.5	1,202.5	338.6	229.2	109.48	3.093		
13,400.0	7,227.0	7,158.0	7,158.0	110.0	26.6	90.00	5,962.5	1,202.5	291.2	165.0	126.26	2.307		
13,499.3	7,227.0	7,158.0	7,158.0	111.7	26.6	90.00	5,962.5	1,202.5	273.8	136.5	137.28	1.995 CC		
13,500.0	7,227.0	7,158.0	7,158.0	111.7	26.6	90.00	5,962.5	1,202.5	273.8	136.5	137.31	1.994 ES, SF		
13,600.0	7,227.0	7,158.0	7,158.0	113.4	26.6	90.00	5,962.5	1,202.5	291.7	155.8	135.98	2.145		
13,700.0	7,227.0	7,158.0	7,158.0	115.1	26.6	90.00	5,962.5	1,202.5	339.5	213.3	126.15	2.691		
13,800.0	7,227.0	7,158.0	7,158.0	116.8	26.6	90.00	5,962.5	1,202.5	406.7	291.7	114.97	3.537		
13,900.0	7,227.0	7,158.0	7,158.0	118.5	26.6	90.00	5,962.5	1,202.5	485.3	379.8	105.49	4.601		
14,000.0	7,227.0	7,158.0	7,158.0	120.2	26.6	90.00	5,962.5	1,202.5	570.7	472.6	98.12	5.816		
14,100.0	7,227.0	7,158.0	7,158.0	121.9	26.6	90.00	5,962.5	1,202.5	660.2	567.7	92.46	7.140		
14,200.0	7,227.0	7,158.0	7,158.0	123.6	26.6	90.00	5,962.5	1,202.5	752.3	664.2	88.10	8.539		
14,300.0	7,227.0	7,158.0	7,158.0	125.3	26.6	90.00	5,962.5	1,202.5	846.2	761.6	84.68	9.993		
14,400.0	7,227.0	7,158.0	7,158.0	127.1	26.6	90.00	5,962.5	1,202.5	941.4	859.4	81.97	11.485		
14,500.0	7,227.0	7,158.0	7,158.0	128.8	26.6	90.00	5,962.5	1,202.5	1,037.5	957.7	79.77	13.005		
14,600.0	7,227.0	7,158.0	7,158.0	130.5	26.6	90.00	5,962.5	1,202.5	1,134.3	1,056.3	77.98	14.546		
14,700.0	7,227.0	7,158.0	7,158.0	132.2	26.6	90.00	5,962.5	1,202.5	1,231.5	1,155.0	76.49	16.100		
14,800.0	7,227.0	7,158.0	7,158.0	133.9	26.6	90.00	5,962.5	1,202.5	1,329.2	1,254.0	75.24	17.666		
14,900.0	7,227.0	7,158.0	7,158.0	135.7	26.6	90.00	5,962.5	1,202.5	1,427.2	1,353.0	74.19	19.238		
15,000.0	7,227.0	7,158.0	7,158.0	137.4	26.6	90.00	5,962.5	1,202.5	1,525.5	1,452.2	73.28	20.816		
15,100.0	7,227.0	7,158.0	7,158.0	139.1	26.6	90.00	5,962.5	1,202.5	1,624.0	1,551.5	72.51	22.397		
15,200.0	7,227.0	7,158.0	7,158.0	140.8	26.6	90.00	5,962.5	1,202.5	1,722.6	1,650.8	71.84	23.980		
15,300.0	7,227.0	7,158.0	7,158.0	142.5	26.6	90.00	5,962.5	1,202.5	1,821.4	1,750.2	71.25	25.564		
15,400.0	7,227.0	7,158.0	7,158.0	144.3	26.6	90.00	5,962.5	1,202.5	1,920.3	1,849.6	70.74	27.148		
15,500.0	7,227.0	7,158.0	7,158.0	146.0	26.6	90.00	5,962.5	1,202.5	2,019.4	1,949.1	70.28	28.732		
15,600.0	7,227.0	7,158.0	7,158.0	147.7	26.6	90.00	5,962.5	1,202.5	2,118.5	2,048.6	69.88	30.315		
15,700.0	7,227.0	7,158.0	7,158.0	149.5	26.6	90.00	5,962.5	1,202.5	2,217.7	2,148.2	69.53	31.896		

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

Offset Design S19-T1S-R65W - UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-44.54	1,023.4	-1,007.1	1,437.5					
100.0	100.0	31.0	31.0	0.4	0.3	-44.54	1,023.4	-1,007.1	1,435.9	1,435.6	0.27	5,370.249		
200.0	200.0	131.0	131.0	1.0	1.1	-44.54	1,023.4	-1,007.1	1,435.9	1,434.9	0.99	1,452.143		
300.0	300.0	231.0	231.0	1.5	1.5	-44.54	1,023.4	-1,007.1	1,435.9	1,434.2	1.70	843.007		
400.0	400.0	331.0	331.0	1.9	1.9	-44.54	1,023.4	-1,007.1	1,435.9	1,433.4	2.42	593.500		
500.0	500.0	431.0	431.0	2.3	2.3	-44.54	1,023.4	-1,007.1	1,435.9	1,432.7	3.14	457.889		
600.0	600.0	531.0	531.0	2.7	2.7	-44.54	1,023.4	-1,007.1	1,435.9	1,432.0	3.85	372.706		
700.0	700.0	631.0	631.0	3.1	3.1	-44.54	1,023.4	-1,007.1	1,435.9	1,431.3	4.57	314.239		
800.0	800.0	731.0	731.0	3.5	3.5	-44.54	1,023.4	-1,007.1	1,435.9	1,430.6	5.29	271.626		
900.0	900.0	831.0	831.0	3.9	3.9	-44.54	1,023.4	-1,007.1	1,435.9	1,429.9	6.00	239.189		
1,000.0	1,000.0	931.0	931.0	4.2	4.2	-44.54	1,023.4	-1,007.1	1,435.9	1,429.1	6.72	213.672		
1,100.0	1,100.0	1,031.0	1,031.0	4.6	4.6	-44.54	1,023.4	-1,007.1	1,435.9	1,428.4	7.44	193.074	CC, ES	
1,200.0	1,200.0	1,131.0	1,131.0	4.9	5.0	-162.00	1,023.4	-1,007.1	1,437.5	1,429.2	8.31	172.924		
1,300.0	1,299.8	1,230.8	1,230.8	5.3	5.3	-162.03	1,023.4	-1,007.1	1,442.5	1,432.9	9.59	150.476		
1,400.0	1,399.5	1,330.5	1,330.5	6.0	5.7	-162.08	1,023.4	-1,007.1	1,450.8	1,440.0	10.74	135.083		
1,500.0	1,498.7	1,429.7	1,429.7	6.7	6.0	-162.16	1,023.4	-1,007.1	1,462.4	1,450.6	11.82	123.769		
1,600.0	1,597.5	1,528.5	1,528.5	7.4	6.4	-162.25	1,023.4	-1,007.1	1,477.3	1,464.5	12.83	115.101		
1,700.0	1,695.8	1,626.8	1,626.8	7.7	6.8	-162.43	1,023.4	-1,007.1	1,494.8	1,481.3	13.48	110.853		
1,800.0	1,794.0	1,725.0	1,725.0	8.0	7.1	-162.64	1,023.4	-1,007.1	1,512.6	1,498.4	14.13	107.037		
1,900.0	1,892.3	1,823.3	1,823.3	8.3	7.5	-162.85	1,023.4	-1,007.1	1,530.3	1,515.5	14.80	103.433		
2,000.0	1,990.6	1,921.6	1,921.6	8.6	7.8	-163.05	1,023.4	-1,007.1	1,548.1	1,532.6	15.46	100.105		
2,100.0	2,088.8	2,019.8	2,019.8	8.9	8.2	-163.25	1,023.4	-1,007.1	1,565.9	1,549.7	16.14	97.026		
2,200.0	2,187.1	2,118.1	2,118.1	9.2	8.5	-163.44	1,023.4	-1,007.1	1,583.7	1,566.9	16.82	94.171		
2,300.0	2,285.3	2,216.3	2,216.3	9.6	8.9	-163.63	1,023.4	-1,007.1	1,601.5	1,584.0	17.50	91.518		
2,400.0	2,383.6	2,314.6	2,314.6	9.9	9.3	-163.82	1,023.4	-1,007.1	1,619.4	1,601.2	18.18	89.049		
2,500.0	2,481.9	2,412.9	2,412.9	10.3	9.6	-164.00	1,023.4	-1,007.1	1,637.2	1,618.3	18.87	86.746		
2,600.0	2,580.1	2,511.1	2,511.1	10.7	10.0	-164.18	1,023.4	-1,007.1	1,655.1	1,635.5	19.57	84.594		
2,700.0	2,678.4	2,609.4	2,609.4	11.1	10.3	-164.35	1,023.4	-1,007.1	1,673.0	1,652.7	20.26	82.579		
2,800.0	2,776.6	2,707.6	2,707.6	11.5	10.7	-164.52	1,023.4	-1,007.1	1,690.9	1,669.9	20.96	80.691		
2,900.0	2,874.9	2,805.9	2,805.9	11.9	11.0	-164.68	1,023.4	-1,007.1	1,708.8	1,687.1	21.65	78.916		
3,000.0	2,973.2	2,904.2	2,904.2	12.3	11.4	-164.85	1,023.4	-1,007.1	1,726.7	1,704.4	22.35	77.247		
3,100.0	3,071.4	3,002.4	3,002.4	12.8	11.7	-165.01	1,023.4	-1,007.1	1,744.7	1,721.6	23.05	75.675		
3,200.0	3,169.7	3,100.7	3,100.7	13.2	12.1	-165.16	1,023.4	-1,007.1	1,762.6	1,738.9	23.76	74.191		
3,300.0	3,268.0	3,199.0	3,199.0	13.6	12.4	-165.31	1,023.4	-1,007.1	1,780.6	1,756.1	24.46	72.788		
3,400.0	3,366.2	3,297.2	3,297.2	14.1	12.8	-165.46	1,023.4	-1,007.1	1,798.6	1,773.4	25.17	71.462		
3,500.0	3,464.5	3,395.5	3,395.5	14.6	13.1	-165.61	1,023.4	-1,007.1	1,816.6	1,790.7	25.88	70.204		
3,600.0	3,562.7	3,493.7	3,493.7	15.0	13.5	-165.75	1,023.4	-1,007.1	1,834.6	1,808.0	26.58	69.011		
3,700.0	3,661.0	3,592.0	3,592.0	15.5	13.8	-165.90	1,023.4	-1,007.1	1,852.6	1,825.3	27.29	67.878		
3,800.0	3,759.3	3,690.3	3,690.3	15.9	14.2	-166.03	1,023.4	-1,007.1	1,870.6	1,842.6	28.00	66.801		
3,900.0	3,857.5	3,788.5	3,788.5	16.4	14.6	-166.17	1,023.4	-1,007.1	1,888.7	1,859.9	28.71	65.775		
4,000.0	3,955.8	3,886.8	3,886.8	16.9	14.9	-166.30	1,023.4	-1,007.1	1,906.7	1,877.3	29.43	64.798		
4,100.0	4,054.1	3,985.1	3,985.1	17.3	15.3	-166.43	1,023.4	-1,007.1	1,924.8	1,894.6	30.14	63.865		
4,200.0	4,152.3	4,083.3	4,083.3	17.8	15.6	-166.56	1,023.4	-1,007.1	1,942.8	1,912.0	30.85	62.974		
4,300.0	4,250.6	4,181.6	4,181.6	18.2	16.0	-166.69	1,023.4	-1,007.1	1,960.9	1,929.3	31.57	62.123		
4,400.0	4,348.8	4,279.8	4,279.8	18.7	16.3	-166.81	1,023.4	-1,007.1	1,979.0	1,946.7	32.28	61.308		
4,500.0	4,447.1	4,378.1	4,378.1	19.2	16.7	-166.93	1,023.4	-1,007.1	1,997.1	1,964.1	32.99	60.528		
4,600.0	4,545.4	4,476.4	4,476.4	19.7	17.0	-167.05	1,023.4	-1,007.1	2,015.2	1,981.5	33.71	59.780		
4,700.0	4,643.6	4,574.6	4,574.6	20.1	17.4	-167.17	1,023.4	-1,007.1	2,033.3	1,998.9	34.43	59.063		
4,800.0	4,741.9	4,672.9	4,672.9	20.6	17.7	-167.28	1,023.4	-1,007.1	2,051.4	2,016.3	35.14	58.374		
4,900.0	4,840.2	4,771.2	4,771.2	21.1	18.1	-167.40	1,023.4	-1,007.1	2,069.5	2,033.7	35.86	57.712		
5,000.0	4,938.4	4,869.4	4,869.4	21.5	18.4	-167.51	1,023.4	-1,007.1	2,087.7	2,051.1	36.58	57.076		
5,100.0	5,036.7	4,967.7	4,967.7	22.0	18.8	-167.62	1,023.4	-1,007.1	2,105.8	2,068.5	37.29	56.464		

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

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

Offset Design S19-T1S-R65W - UPRR-Letterly 1 (P&A) - EXISTING - NO SURVEYS (P&A)													Offset Site Error:	0.0 usft
Survey Program: 100-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,134.9	5,065.9	5,065.9	22.5	19.1	-167.73	1,023.4	-1,007.1	2,124.0	2,086.0	38.01	55.875		
5,300.0	5,233.2	5,164.2	5,164.2	23.0	19.5	-167.83	1,023.4	-1,007.1	2,142.1	2,103.4	38.73	55.307		
5,400.0	5,331.5	5,262.5	5,262.5	23.4	19.8	-167.93	1,023.4	-1,007.1	2,160.3	2,120.8	39.45	54.760		
5,500.0	5,429.7	5,360.7	5,360.7	23.9	20.2	-168.04	1,023.4	-1,007.1	2,178.5	2,138.3	40.17	54.231		
5,600.0	5,528.0	5,459.0	5,459.0	24.4	20.6	-168.14	1,023.4	-1,007.1	2,196.6	2,155.7	40.89	53.722		
5,700.0	5,626.2	5,557.2	5,557.2	24.9	20.9	-168.24	1,023.4	-1,007.1	2,214.8	2,173.2	41.61	53.229		
7,600.0	7,224.5	7,155.5	7,155.5	31.7	26.6	-87.48	1,023.4	-1,007.1	2,205.2	2,150.8	54.37	40.562		
7,700.0	7,227.0	7,158.0	7,158.0	31.6	26.6	-90.00	1,023.4	-1,007.1	2,163.1	2,108.3	54.80	39.474		
7,800.0	7,227.0	7,158.0	7,158.0	31.7	26.6	-90.00	1,023.4	-1,007.1	2,124.4	2,069.1	55.29	38.426		
7,900.0	7,227.0	7,158.0	7,158.0	31.8	26.6	-90.00	1,023.4	-1,007.1	2,089.8	2,034.0	55.85	37.421		
8,000.0	7,227.0	7,158.0	7,158.0	32.0	26.6	-90.00	1,023.4	-1,007.1	2,059.5	2,003.1	56.47	36.470		
8,100.0	7,227.0	7,158.0	7,158.0	32.5	26.6	-90.00	1,023.4	-1,007.1	2,033.7	1,976.5	57.16	35.580		
8,200.0	7,227.0	7,158.0	7,158.0	33.0	26.6	-90.00	1,023.4	-1,007.1	2,012.5	1,954.6	57.90	34.760		
8,300.0	7,227.0	7,158.0	7,158.0	33.7	26.6	-90.00	1,023.4	-1,007.1	1,996.1	1,937.4	58.68	34.018		
8,400.0	7,227.0	7,158.0	7,158.0	34.6	26.6	-90.00	1,023.4	-1,007.1	1,984.6	1,925.1	59.49	33.360		
8,500.0	7,227.0	7,158.0	7,158.0	35.5	26.6	-90.00	1,023.4	-1,007.1	1,978.1	1,917.8	60.32	32.793		
8,578.6	7,227.0	7,158.0	7,158.0	36.2	26.6	-90.00	1,023.4	-1,007.1	1,976.6	1,915.6	60.99	32.410		
8,600.0	7,227.0	7,158.0	7,158.0	36.5	26.6	-90.00	1,023.4	-1,007.1	1,976.7	1,915.5	61.16	32.320		
8,700.0	7,227.0	7,158.0	7,158.0	37.5	26.6	-90.00	1,023.4	-1,007.1	1,980.3	1,918.3	61.99	31.944		
8,800.0	7,227.0	7,158.0	7,158.0	38.6	26.6	-90.00	1,023.4	-1,007.1	1,988.9	1,926.1	62.81	31.668		
8,900.0	7,227.0	7,158.0	7,158.0	39.8	26.6	-90.00	1,023.4	-1,007.1	2,002.5	1,938.9	63.59	31.491		
9,000.0	7,227.0	7,158.0	7,158.0	41.0	26.6	-90.00	1,023.4	-1,007.1	2,021.0	1,956.6	64.34	31.412 SF		
9,100.0	7,227.0	7,158.0	7,158.0	42.2	26.6	-90.00	1,023.4	-1,007.1	2,044.2	1,979.1	65.04	31.430		
9,200.0	7,227.0	7,158.0	7,158.0	43.5	26.6	-90.00	1,023.4	-1,007.1	2,071.9	2,006.2	65.69	31.540		
9,300.0	7,227.0	7,158.0	7,158.0	44.8	26.6	-90.00	1,023.4	-1,007.1	2,104.1	2,037.8	66.29	31.740		
9,400.0	7,227.0	7,158.0	7,158.0	46.1	26.6	-90.00	1,023.4	-1,007.1	2,140.4	2,073.6	66.83	32.026		
9,500.0	7,227.0	7,158.0	7,158.0	47.5	26.6	-90.00	1,023.4	-1,007.1	2,180.8	2,113.4	67.32	32.392		

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

Reference Depths are relative to 13' KB @ 5155.0usft

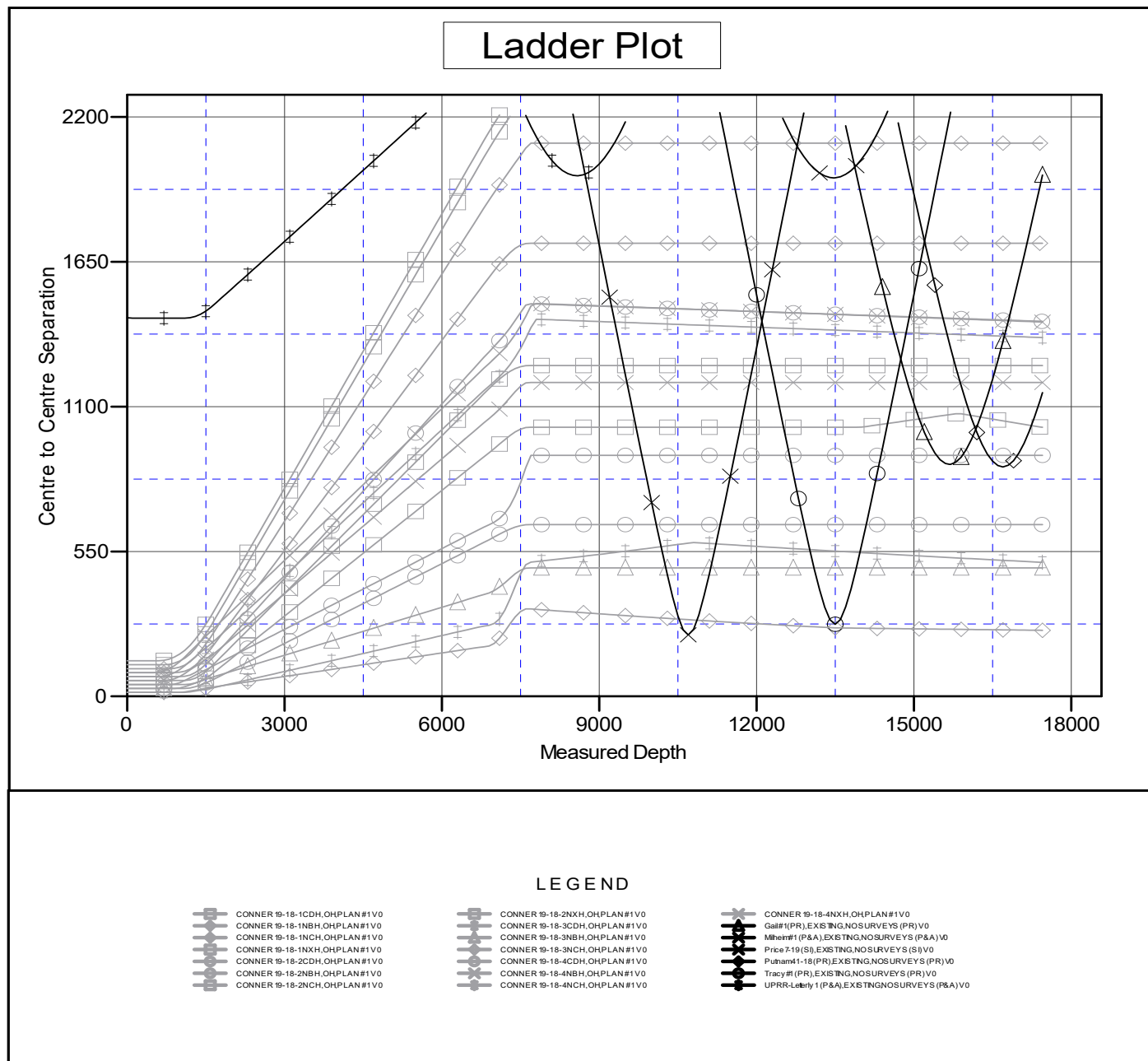
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°



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

Reference Depths are relative to 13' KB @ 5155.0usft

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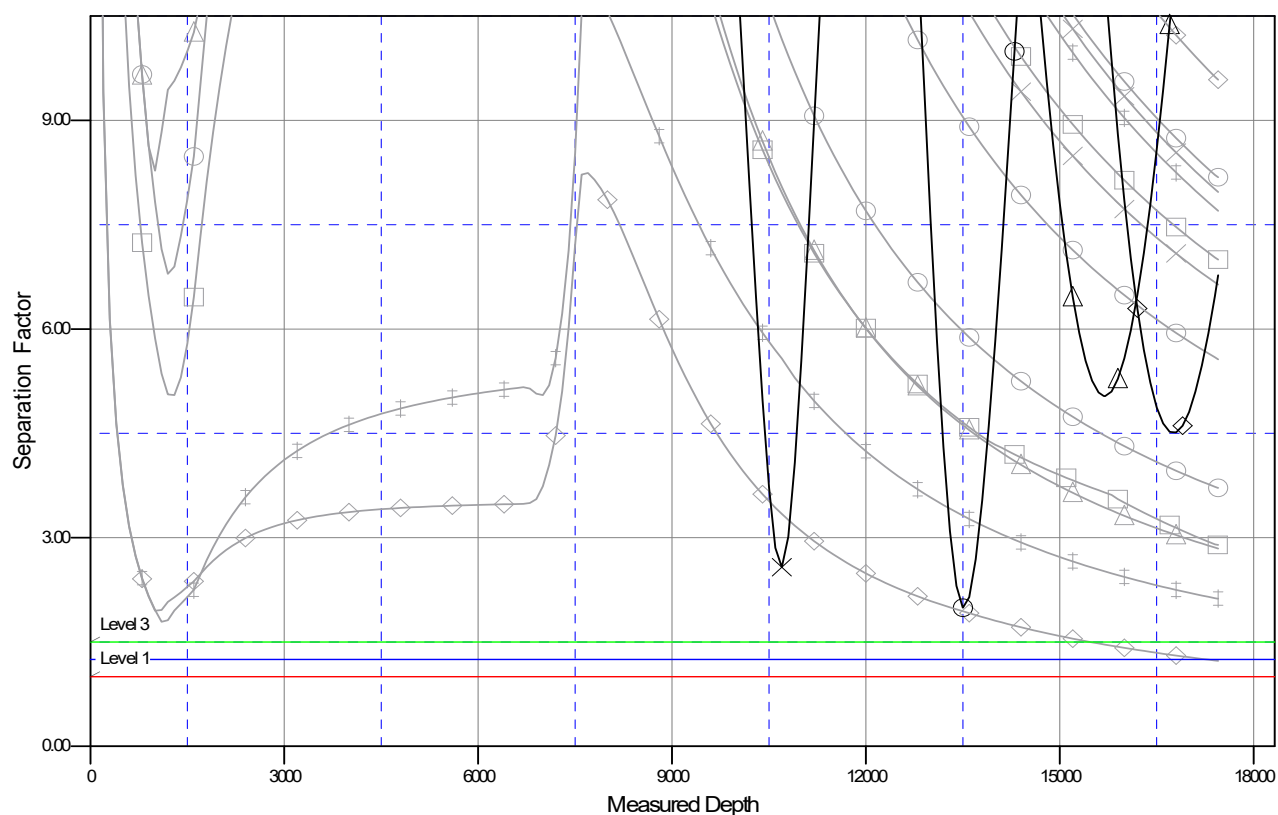
Central Meridian is -105.500000

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.51°








Separation Factor Plot



LEGEND

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

 CONNER 19-18-2NXH,OHPLAN#1V0
 CONNER 19-18-3CDH,OHPLAN#1V0
 CONNER 19-18-3NBH,OHPLAN#1V0
 CONNER 19-18-3NCH,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
 Gail#1(PR),EXISTING,NOSURVEYS (PR) V0
 Mheim#1 (P&A),EXISTING,NOSURVEYS (P&A) V0
 Price 7-19 (S),EXISTING,NOSURVEYS (S) V0
 Putnam#1-18 (PR),EXISTING,NOSURVEYS (PR) V0
 Tracy#1 (PR),EXISTING,NOSURVEYS (PR) V0
 UPRR-Lafayette 1 (P&A),EXISTING,NOSURVEYS (P&A) V0