

PetroShare Corp

Well Name: **SHOOK 3-10-2NAH**

Surface Location: SHOOK PAD 3-1S-67W

North American Datum 1983 , US State Plane 1983, Colorado Northern Zone

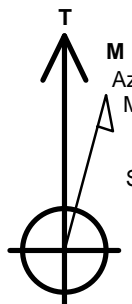
Ground Elevation: 5093.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1240633.54	3175641.26	39.992220	-104.873120	

EST KB 16' RKB @ 5109.0ft (EST KB 16')

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2058'FSL & 2124'FEL	-10.0	0.0	0.0	Point
BHL 460'FSL & 1036'FEL	7394.0	-6870.3	1115.5	Point
LANDING PT 860'FSL & 1036'FEL	7394.0	-1198.4	1095.6	Point



Azimuths to True North
Magnetic North: 8.45°

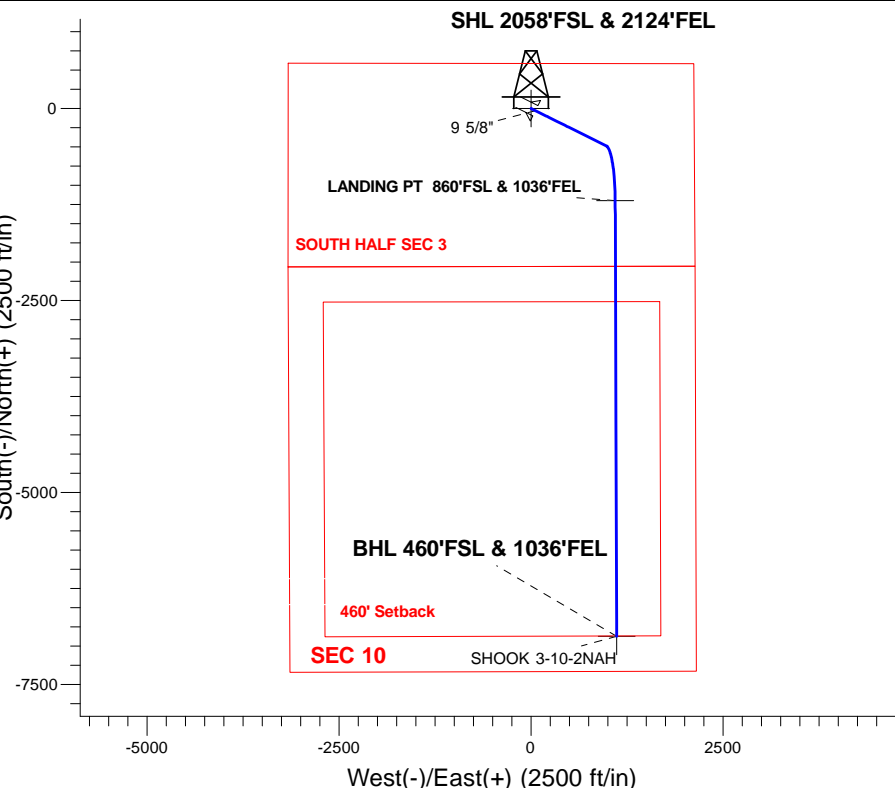
Magnetic Field
Strength: 52274.5snT
Dip Angle: 66.43°
Date: 12/31/2015
Model: HDGM

ANNOTATIONS

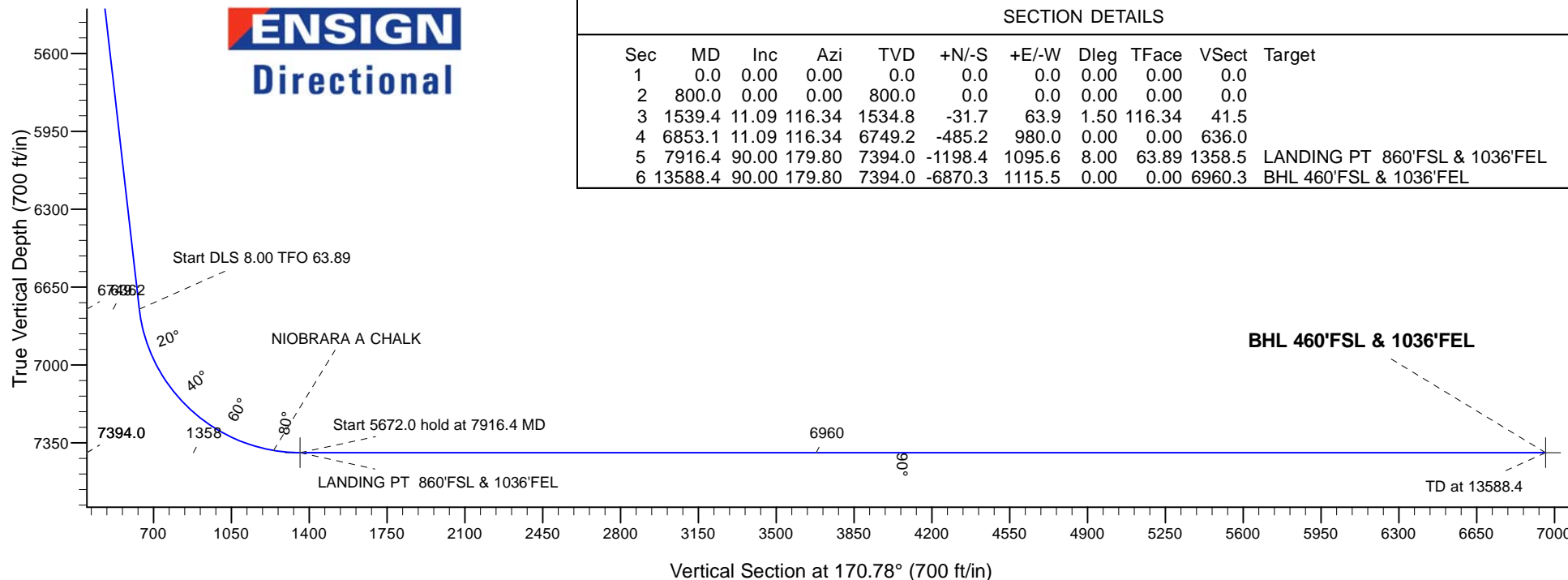
TVD	MD	Annotation
800.0	800.0	KOP - Start Build 1.50
1534.8	1539.4	Start 5313.6 hold at 1539.4 MD
6749.2	6853.1	Start DLS 8.00 TFO 63.89
7394.0	7916.4	Start 5672.0 hold at 7916.4 MD
7394.0	13588.4	TD at 13588.4

SHOOK PAD 3-1S-67W
SHOOK 3-10-2NAH
PLAN 1 (FEB 5 2016)
14:01, February 22 2016

South(-)/North(+) (2500 ft/in)



ENSIGN
Directional



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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1539.4	11.09	116.34	1534.8	-31.7	63.9	1.50	116.34	41.5	
4	6853.1	11.09	116.34	6749.2	-485.2	980.0	0.00	0.00	636.0	
5	7916.4	90.00	179.80	7394.0	-1198.4	1095.6	8.00	63.89	1358.5	LANDING PT 860'FSL & 1036'FEL
6	13588.4	90.00	179.80	7394.0	-6870.3	1115.5	0.00	0.00	6960.3	BHL 460'FSL & 1036'FEL



Directional

PetroShare Corp

SEC.3-T1S-R67W

SHOOK PAD 3-1S-67W

SHOOK 3-10-2NAH

Wellbore #1

Plan: PLAN 1 (FEB 5 2016)

Standard Planning Report

22 February, 2016

Database:	US_EDM	Local Co-ordinate Reference:	Well SHOOK 3-10-2NAH
Company:	PetroShare Corp	TVD Reference:	RKB @ 5109.0ft (EST KB 16')
Project:	SEC.3-T1S-R67W	MD Reference:	RKB @ 5109.0ft (EST KB 16')
Site:	SHOOK PAD 3-1S-67W	North Reference:	True
Well:	SHOOK 3-10-2NAH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (FEB 5 2016)		

Project	SEC.3-T1S-R67W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		SHOOK PAD 3-1S-67W			
Site Position:		Northing:	1,240,632.47 usft	Latitude:	39.992220
From:	Lat/Long	Easting:	3,175,478.75 usft	Longitude:	-104.873700
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40

Well	SHOOK 3-10-2NAH					
Well Position	+N/-S	-0.1 ft	Northing:	1,240,633.54 usft	Latitude:	39.992220
	+E/-W	162.5 ft	Easting:	3,175,641.26 usft	Longitude:	-104.873120
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	5,093.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/31/2015	8.45	66.43	52,275

Design	PLAN 1 (FEB 5 2016)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	170.78

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,539.4	11.09	116.34	1,534.8	-31.7	63.9	1.50	1.50	0.00	116.34	
6,853.1	11.09	116.34	6,749.2	-485.2	980.0	0.00	0.00	0.00	0.00	
7,916.4	90.00	179.80	7,394.0	-1,198.4	1,095.6	8.00	7.42	5.97	63.89	LANDING PT 860'FS
13,588.4	90.00	179.80	7,394.0	-6,870.3	1,115.5	0.00	0.00	0.00	0.00	BHL 460'FSL & 1036'I

Database:	US_EDM	Local Co-ordinate Reference:	Well SHOOK 3-10-2NAH
Company:	PetroShare Corp	TVD Reference:	RKB @ 5109.0ft (EST KB 16')
Project:	SEC.3-T1S-R67W	MD Reference:	RKB @ 5109.0ft (EST KB 16')
Site:	SHOOK PAD 3-1S-67W	North Reference:	True
Well:	SHOOK 3-10-2NAH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (FEB 5 2016)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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
SHL 2058'FSL & 2124'FEL									
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
740.0	0.00	0.00	740.0	0.0	0.0	0.0	0.00	0.00	0.00
FOX HILLS									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 1.50									
900.0	1.50	116.34	900.0	-0.6	1.2	0.8	1.50	1.50	0.00
1,000.0	3.00	116.34	999.9	-2.3	4.7	3.0	1.50	1.50	0.00
1,100.0	4.50	116.34	1,099.7	-5.2	10.6	6.8	1.50	1.50	0.00
1,200.0	6.00	116.34	1,199.3	-9.3	18.8	12.2	1.50	1.50	0.00
1,300.0	7.50	116.34	1,298.6	-14.5	29.3	19.0	1.50	1.50	0.00
1,400.0	9.00	116.34	1,397.5	-20.9	42.1	27.4	1.50	1.50	0.00
1,500.0	10.50	116.34	1,496.1	-28.4	57.3	37.2	1.50	1.50	0.00
9 5/8"									
1,539.4	11.09	116.34	1,534.8	-31.7	63.9	41.5	1.50	1.50	0.00
Start 5313.6 hold at 1539.4 MD									
1,600.0	11.09	116.34	1,594.3	-36.8	74.4	48.3	0.00	0.00	0.00
1,700.0	11.09	116.34	1,692.4	-45.4	91.6	59.5	0.00	0.00	0.00
1,800.0	11.09	116.34	1,790.5	-53.9	108.9	70.7	0.00	0.00	0.00
1,900.0	11.09	116.34	1,888.7	-62.4	126.1	81.8	0.00	0.00	0.00
2,000.0	11.09	116.34	1,986.8	-71.0	143.3	93.0	0.00	0.00	0.00
2,100.0	11.09	116.34	2,084.9	-79.5	160.6	104.2	0.00	0.00	0.00
2,200.0	11.09	116.34	2,183.1	-88.0	177.8	115.4	0.00	0.00	0.00
2,300.0	11.09	116.34	2,281.2	-96.6	195.1	126.6	0.00	0.00	0.00
2,400.0	11.09	116.34	2,379.3	-105.1	212.3	137.8	0.00	0.00	0.00
2,500.0	11.09	116.34	2,477.4	-113.7	229.5	149.0	0.00	0.00	0.00
2,600.0	11.09	116.34	2,575.6	-122.2	246.8	160.2	0.00	0.00	0.00
2,700.0	11.09	116.34	2,673.7	-130.7	264.0	171.4	0.00	0.00	0.00
2,800.0	11.09	116.34	2,771.8	-139.3	281.3	182.5	0.00	0.00	0.00
2,900.0	11.09	116.34	2,870.0	-147.8	298.5	193.7	0.00	0.00	0.00
3,000.0	11.09	116.34	2,968.1	-156.3	315.7	204.9	0.00	0.00	0.00
3,100.0	11.09	116.34	3,066.2	-164.9	333.0	216.1	0.00	0.00	0.00
3,200.0	11.09	116.34	3,164.4	-173.4	350.2	227.3	0.00	0.00	0.00
3,300.0	11.09	116.34	3,262.5	-181.9	367.5	238.5	0.00	0.00	0.00
3,400.0	11.09	116.34	3,360.6	-190.5	384.7	249.7	0.00	0.00	0.00
3,500.0	11.09	116.34	3,458.8	-199.0	401.9	260.9	0.00	0.00	0.00
3,600.0	11.09	116.34	3,556.9	-207.6	419.2	272.1	0.00	0.00	0.00
3,700.0	11.09	116.34	3,655.0	-216.1	436.4	283.2	0.00	0.00	0.00
3,800.0	11.09	116.34	3,753.2	-224.6	453.7	294.4	0.00	0.00	0.00
3,900.0	11.09	116.34	3,851.3	-233.2	470.9	305.6	0.00	0.00	0.00
4,000.0	11.09	116.34	3,949.4	-241.7	488.2	316.8	0.00	0.00	0.00
4,100.0	11.09	116.34	4,047.6	-250.2	505.4	328.0	0.00	0.00	0.00
4,200.0	11.09	116.34	4,145.7	-258.8	522.6	339.2	0.00	0.00	0.00
4,300.0	11.09	116.34	4,243.8	-267.3	539.9	350.4	0.00	0.00	0.00
4,400.0	11.09	116.34	4,342.0	-275.8	557.1	361.6	0.00	0.00	0.00
4,500.0	11.09	116.34	4,440.1	-284.4	574.4	372.8	0.00	0.00	0.00
4,600.0	11.09	116.34	4,538.2	-292.9	591.6	383.9	0.00	0.00	0.00

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Project:	SEC.3-T1S-R67W	MD Reference:	RKB @ 5109.0ft (EST KB 16')
Site:	SHOOK PAD 3-1S-67W	North Reference:	True
Well:	SHOOK 3-10-2NAH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (FEB 5 2016)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.0	11.09	116.34	4,636.4	-301.5	608.8	395.1	0.00	0.00	0.00
4,800.0	11.09	116.34	4,734.5	-310.0	626.1	406.3	0.00	0.00	0.00
4,900.0	11.09	116.34	4,832.6	-318.5	643.3	417.5	0.00	0.00	0.00
4,968.7	11.09	116.34	4,900.0	-324.4	655.2	425.2	0.00	0.00	0.00
SUSSEX									
5,000.0	11.09	116.34	4,930.7	-327.1	660.6	428.7	0.00	0.00	0.00
5,100.0	11.09	116.34	5,028.9	-335.6	677.8	439.9	0.00	0.00	0.00
5,200.0	11.09	116.34	5,127.0	-344.1	695.0	451.1	0.00	0.00	0.00
5,300.0	11.09	116.34	5,225.1	-352.7	712.3	462.3	0.00	0.00	0.00
5,400.0	11.09	116.34	5,323.3	-361.2	729.5	473.5	0.00	0.00	0.00
5,500.0	11.09	116.34	5,421.4	-369.7	746.8	484.6	0.00	0.00	0.00
5,600.0	11.09	116.34	5,519.5	-378.3	764.0	495.8	0.00	0.00	0.00
5,700.0	11.09	116.34	5,617.7	-386.8	781.2	507.0	0.00	0.00	0.00
5,800.0	11.09	116.34	5,715.8	-395.4	798.5	518.2	0.00	0.00	0.00
5,900.0	11.09	116.34	5,813.9	-403.9	815.7	529.4	0.00	0.00	0.00
6,000.0	11.09	116.34	5,912.1	-412.4	833.0	540.6	0.00	0.00	0.00
6,100.0	11.09	116.34	6,010.2	-421.0	850.2	551.8	0.00	0.00	0.00
6,200.0	11.09	116.34	6,108.3	-429.5	867.4	563.0	0.00	0.00	0.00
6,300.0	11.09	116.34	6,206.5	-438.0	884.7	574.2	0.00	0.00	0.00
6,400.0	11.09	116.34	6,304.6	-446.6	901.9	585.3	0.00	0.00	0.00
6,500.0	11.09	116.34	6,402.7	-455.1	919.2	596.5	0.00	0.00	0.00
6,600.0	11.09	116.34	6,500.9	-463.6	936.4	607.7	0.00	0.00	0.00
6,700.0	11.09	116.34	6,599.0	-472.2	953.6	618.9	0.00	0.00	0.00
6,800.0	11.09	116.34	6,697.1	-480.7	970.9	630.1	0.00	0.00	0.00
6,853.1	11.09	116.34	6,749.2	-485.2	980.0	636.0	0.00	0.00	0.00
Start DLS 8.00 TFO 63.89									
6,900.0	13.18	131.29	6,795.1	-490.8	988.1	642.8	8.00	4.44	31.85
7,000.0	19.35	149.84	6,891.1	-512.7	1,005.0	667.1	8.00	6.18	18.56
7,100.0	26.50	159.20	6,983.2	-547.9	1,021.3	704.5	8.00	7.14	9.36
7,200.0	34.00	164.73	7,069.5	-595.8	1,036.6	754.2	8.00	7.51	5.53
7,300.0	41.68	168.44	7,148.4	-655.5	1,050.6	815.4	8.00	7.67	3.71
7,400.0	49.44	171.17	7,218.4	-725.7	1,063.2	886.7	8.00	7.76	2.73
7,500.0	57.25	173.32	7,278.1	-805.1	1,073.9	966.8	8.00	7.81	2.16
7,600.0	65.09	175.13	7,326.3	-892.2	1,082.7	1,054.2	8.00	7.84	1.81
7,700.0	72.95	176.72	7,362.0	-985.3	1,089.3	1,147.1	8.00	7.86	1.59
7,795.7	80.49	178.12	7,384.0	-1,078.2	1,093.4	1,239.5	8.00	7.87	1.46
NIOBRARA A CHALK									
7,800.0	80.83	178.18	7,384.7	-1,082.5	1,093.6	1,243.7	8.00	7.88	1.42
7,900.0	88.71	179.57	7,393.8	-1,182.0	1,095.5	1,342.3	8.00	7.88	1.40
7,916.4	90.00	179.80	7,394.0	-1,198.4	1,095.6	1,358.5	8.00	7.88	1.38
Start 5672.0 hold at 7916.4 MD - LANDING PT 860°FSL & 1036°FEL									
8,000.0	90.00	179.80	7,394.0	-1,282.0	1,095.9	1,441.0	0.00	0.00	0.00
8,100.0	90.00	179.80	7,394.0	-1,382.0	1,096.3	1,539.8	0.00	0.00	0.00
8,200.0	90.00	179.80	7,394.0	-1,482.0	1,096.6	1,638.5	0.00	0.00	0.00
8,300.0	90.00	179.80	7,394.0	-1,582.0	1,097.0	1,737.3	0.00	0.00	0.00
8,400.0	90.00	179.80	7,394.0	-1,682.0	1,097.3	1,836.1	0.00	0.00	0.00
8,500.0	90.00	179.80	7,394.0	-1,782.0	1,097.7	1,934.8	0.00	0.00	0.00
8,600.0	90.00	179.80	7,394.0	-1,882.0	1,098.0	2,033.6	0.00	0.00	0.00
8,700.0	90.00	179.80	7,394.0	-1,982.0	1,098.4	2,132.4	0.00	0.00	0.00
8,800.0	90.00	179.80	7,394.0	-2,082.0	1,098.7	2,231.1	0.00	0.00	0.00
8,900.0	90.00	179.80	7,394.0	-2,182.0	1,099.1	2,329.9	0.00	0.00	0.00
9,000.0	90.00	179.80	7,394.0	-2,282.0	1,099.4	2,428.7	0.00	0.00	0.00
9,100.0	90.00	179.80	7,394.0	-2,382.0	1,099.8	2,527.4	0.00	0.00	0.00

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Site:	SHOOK PAD 3-1S-67W	North Reference:	True
Well:	SHOOK 3-10-2NAH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (FEB 5 2016)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,200.0	90.00	179.80	7,394.0	-2,482.0	1,100.1	2,626.2	0.00	0.00	0.00
9,300.0	90.00	179.80	7,394.0	-2,582.0	1,100.5	2,724.9	0.00	0.00	0.00
9,400.0	90.00	179.80	7,394.0	-2,681.9	1,100.8	2,823.7	0.00	0.00	0.00
9,500.0	90.00	179.80	7,394.0	-2,781.9	1,101.2	2,922.5	0.00	0.00	0.00
9,600.0	90.00	179.80	7,394.0	-2,881.9	1,101.5	3,021.2	0.00	0.00	0.00
9,700.0	90.00	179.80	7,394.0	-2,981.9	1,101.9	3,120.0	0.00	0.00	0.00
9,800.0	90.00	179.80	7,394.0	-3,081.9	1,102.2	3,218.8	0.00	0.00	0.00
9,900.0	90.00	179.80	7,394.0	-3,181.9	1,102.6	3,317.5	0.00	0.00	0.00
10,000.0	90.00	179.80	7,394.0	-3,281.9	1,102.9	3,416.3	0.00	0.00	0.00
10,100.0	90.00	179.80	7,394.0	-3,381.9	1,103.3	3,515.0	0.00	0.00	0.00
10,200.0	90.00	179.80	7,394.0	-3,481.9	1,103.6	3,613.8	0.00	0.00	0.00
10,300.0	90.00	179.80	7,394.0	-3,581.9	1,104.0	3,712.6	0.00	0.00	0.00
10,400.0	90.00	179.80	7,394.0	-3,681.9	1,104.3	3,811.3	0.00	0.00	0.00
10,500.0	90.00	179.80	7,394.0	-3,781.9	1,104.7	3,910.1	0.00	0.00	0.00
10,600.0	90.00	179.80	7,394.0	-3,881.9	1,105.0	4,008.9	0.00	0.00	0.00
10,700.0	90.00	179.80	7,394.0	-3,981.9	1,105.4	4,107.6	0.00	0.00	0.00
10,800.0	90.00	179.80	7,394.0	-4,081.9	1,105.7	4,206.4	0.00	0.00	0.00
10,900.0	90.00	179.80	7,394.0	-4,181.9	1,106.1	4,305.1	0.00	0.00	0.00
11,000.0	90.00	179.80	7,394.0	-4,281.9	1,106.4	4,403.9	0.00	0.00	0.00
11,100.0	90.00	179.80	7,394.0	-4,381.9	1,106.8	4,502.7	0.00	0.00	0.00
11,200.0	90.00	179.80	7,394.0	-4,481.9	1,107.1	4,601.4	0.00	0.00	0.00
11,300.0	90.00	179.80	7,394.0	-4,581.9	1,107.5	4,700.2	0.00	0.00	0.00
11,400.0	90.00	179.80	7,394.0	-4,681.9	1,107.8	4,799.0	0.00	0.00	0.00
11,500.0	90.00	179.80	7,394.0	-4,781.9	1,108.2	4,897.7	0.00	0.00	0.00
11,600.0	90.00	179.80	7,394.0	-4,881.9	1,108.5	4,996.5	0.00	0.00	0.00
11,700.0	90.00	179.80	7,394.0	-4,981.9	1,108.9	5,095.3	0.00	0.00	0.00
11,800.0	90.00	179.80	7,394.0	-5,081.9	1,109.2	5,194.0	0.00	0.00	0.00
11,900.0	90.00	179.80	7,394.0	-5,181.9	1,109.6	5,292.8	0.00	0.00	0.00
12,000.0	90.00	179.80	7,394.0	-5,281.9	1,109.9	5,391.5	0.00	0.00	0.00
12,100.0	90.00	179.80	7,394.0	-5,381.9	1,110.3	5,490.3	0.00	0.00	0.00
12,200.0	90.00	179.80	7,394.0	-5,481.9	1,110.6	5,589.1	0.00	0.00	0.00
12,300.0	90.00	179.80	7,394.0	-5,581.9	1,111.0	5,687.8	0.00	0.00	0.00
12,400.0	90.00	179.80	7,394.0	-5,681.9	1,111.3	5,786.6	0.00	0.00	0.00
12,500.0	90.00	179.80	7,394.0	-5,781.9	1,111.7	5,885.4	0.00	0.00	0.00
12,600.0	90.00	179.80	7,394.0	-5,881.9	1,112.0	5,984.1	0.00	0.00	0.00
12,700.0	90.00	179.80	7,394.0	-5,981.9	1,112.4	6,082.9	0.00	0.00	0.00
12,800.0	90.00	179.80	7,394.0	-6,081.9	1,112.7	6,181.6	0.00	0.00	0.00
12,900.0	90.00	179.80	7,394.0	-6,181.9	1,113.1	6,280.4	0.00	0.00	0.00
13,000.0	90.00	179.80	7,394.0	-6,281.9	1,113.4	6,379.2	0.00	0.00	0.00
13,100.0	90.00	179.80	7,394.0	-6,381.9	1,113.8	6,477.9	0.00	0.00	0.00
13,200.0	90.00	179.80	7,394.0	-6,481.9	1,114.1	6,576.7	0.00	0.00	0.00
13,300.0	90.00	179.80	7,394.0	-6,581.9	1,114.5	6,675.5	0.00	0.00	0.00
13,400.0	90.00	179.80	7,394.0	-6,681.9	1,114.8	6,774.2	0.00	0.00	0.00
13,500.0	90.00	179.80	7,394.0	-6,781.9	1,115.2	6,873.0	0.00	0.00	0.00
13,588.4	90.00	179.80	7,394.0	-6,870.3	1,115.5	6,960.3	0.00	0.00	0.00
TD at 13588.4 - BHL 460'FSL & 1036'FEL									

Database:	US_EDM	Local Co-ordinate Reference:	Well SHOOK 3-10-2NAH
Company:	PetroShare Corp	TVD Reference:	RKB @ 5109.0ft (EST KB 16')
Project:	SEC.3-T1S-R67W	MD Reference:	RKB @ 5109.0ft (EST KB 16')
Site:	SHOOK PAD 3-1S-67W	North Reference:	True
Well:	SHOOK 3-10-2NAH	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PLAN 1 (FEB 5 2016)		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
SHL 2058'FSL & 2124'FI	0.00	0.00	-10.0	0.0	0.0	1,240,633.55	3,175,641.26	39.992220	-104.873120
- plan misses target center by 10.0ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Point									
BHL 460'FSL & 1036'FE	0.00	0.00	7,394.0	-6,870.3	1,115.5	1,233,771.51	3,176,805.24	39.973360	-104.869140
- plan hits target center									
- Point									
LANDING PT 860'FSL & 860'FSL	0.00	0.00	7,394.0	-1,198.4	1,095.6	1,239,442.96	3,176,745.28	39.988930	-104.869210
- plan hits target center									
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(")	(")
1,500.0	1,496.1	9 5/8"	9-5/8	12-1/4

Formations				
Measured Depth	Vertical Depth	Name	Lithology	Dip
(ft)	(ft)			(°)
740.0	740.0	FOX HILLS		0.00
4,968.7	4,900.0	SUSSEX		0.00
7,795.7	7,384.0	NIOBRARA A CHALK		0.00

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
800.0	800.0	0.0	0.0	KOP - Start Build 1.50
1,539.4	1,534.8	-31.7	63.9	Start 5313.6 hold at 1539.4 MD
6,853.1	6,749.2	-485.2	980.0	Start DLS 8.00 TFO 63.89
7,916.4	7,394.0	-1,198.4	1,095.6	Start 5672.0 hold at 7916.4 MD
13,588.4	7,394.0	-6,870.3	1,115.5	TD at 13588.4