

Permian District

Poker Lake

Big Sinks 2 24 30 State 1H

Well #1

Wellbore #1

30-015-39246

Plan: Plat

Standard Planning Report

18 July, 2011



Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Well #1
Company:	Permian District	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Big Sinks 2 24 30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat		

Project:	Poker Lake, Eddy County, NM		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	PLU Big Sinks 2 24 30 State 1H		
Site Position:		Northing:	454,521.00 usft
From:	Map	Easting:	687,792.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	32.2486656355
		Longitude:	-103.8596006052
		Grid Convergence:	0.2528055 °

Well	Well #1					
Well Position	+N/-S	0.0 usft	Northing:	454,521.00 usft	Latitude:	32.2486656355
	+E/-W	0.0 usft	Easting:	687,792.00 usft	Longitude:	-103.8596006052
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	0.0 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	5/25/2011	0.0000000	0.0000000	0

Design:	Plat			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	89.56

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	0.0000000	
8,878.4	0.00	0.00	8,878.4	0.0	0.0	0.00	0.00	0.00	0.0000000	
9,632.6	90.50	89.56	9,355.8	3.7	481.6	12.00	12.00	0.00	89.5571758	
14,197.2	90.50	89.56	9,316.0	39.0	5,046.0	0.00	0.00	0.00	0.0000000	BS 2 24 30 S1H - BHI

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Site:	Big Sinks 2 24 30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

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Site:	Big Sinks 2 24 30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat		

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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,878.4	0.00	0.00	8,878.4	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	2.59	89.56	8,900.0	0.0	0.5	0.5	12.00	12.00	0.00
9,000.0	14.59	89.56	8,998.7	0.1	15.4	15.4	12.00	12.00	0.00
9,100.0	26.59	89.56	9,092.1	0.4	50.5	50.5	12.00	12.00	0.00
9,200.0	38.59	89.56	9,176.2	0.8	104.3	104.3	12.00	12.00	0.00
9,300.0	50.59	89.56	9,247.3	1.3	174.4	174.4	12.00	12.00	0.00
9,400.0	62.59	89.56	9,302.3	2.0	257.7	257.7	12.00	12.00	0.00
9,500.0	74.59	89.56	9,338.7	2.7	350.6	350.6	12.00	12.00	0.00
9,600.0	86.59	89.56	9,355.0	3.5	449.1	449.1	12.00	12.00	0.00
9,632.6	90.50	89.56	9,355.8	3.7	481.6	481.6	12.00	12.00	0.00
9,700.0	90.50	89.56	9,355.2	4.2	549.1	549.1	0.00	0.00	0.00
9,800.0	90.50	89.56	9,354.4	5.0	649.1	649.1	0.00	0.00	0.00
9,900.0	90.50	89.56	9,353.5	5.8	749.0	749.1	0.00	0.00	0.00
10,000.0	90.50	89.56	9,352.6	6.6	849.0	849.1	0.00	0.00	0.00
10,100.0	90.50	89.56	9,351.8	7.3	949.0	949.1	0.00	0.00	0.00
10,200.0	90.50	89.56	9,350.9	8.1	1,049.0	1,049.1	0.00	0.00	0.00
10,300.0	90.50	89.56	9,350.0	8.9	1,149.0	1,149.1	0.00	0.00	0.00
10,400.0	90.50	89.56	9,349.1	9.7	1,249.0	1,249.0	0.00	0.00	0.00
10,500.0	90.50	89.56	9,348.3	10.4	1,349.0	1,349.0	0.00	0.00	0.00

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Site:	Big Sinks 2 24 30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat		

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)
10,600.0	90.50	89.56	9,347.4	11.2	1,449.0	1,449.0	0.00	0.00	0.00
10,700.0	90.50	89.56	9,346.5	12.0	1,549.0	1,549.0	0.00	0.00	0.00
10,800.0	90.50	89.56	9,345.6	12.7	1,649.0	1,649.0	0.00	0.00	0.00
10,900.0	90.50	89.56	9,344.8	13.5	1,749.0	1,749.0	0.00	0.00	0.00
11,000.0	90.50	89.56	9,343.9	14.3	1,849.0	1,849.0	0.00	0.00	0.00
11,100.0	90.50	89.56	9,343.0	15.1	1,949.0	1,949.0	0.00	0.00	0.00
11,200.0	90.50	89.56	9,342.2	15.8	2,049.0	2,049.0	0.00	0.00	0.00
11,300.0	90.50	89.56	9,341.3	16.6	2,148.9	2,149.0	0.00	0.00	0.00
11,400.0	90.50	89.56	9,340.4	17.4	2,248.9	2,249.0	0.00	0.00	0.00
11,500.0	90.50	89.56	9,339.5	18.2	2,348.9	2,349.0	0.00	0.00	0.00
11,600.0	90.50	89.56	9,338.7	18.9	2,448.9	2,449.0	0.00	0.00	0.00
11,700.0	90.50	89.56	9,337.8	19.7	2,548.9	2,549.0	0.00	0.00	0.00
11,800.0	90.50	89.56	9,336.9	20.5	2,648.9	2,649.0	0.00	0.00	0.00
11,900.0	90.50	89.56	9,336.0	21.2	2,748.9	2,749.0	0.00	0.00	0.00
12,000.0	90.50	89.56	9,335.2	22.0	2,848.9	2,849.0	0.00	0.00	0.00
12,100.0	90.50	89.56	9,334.3	22.8	2,948.9	2,949.0	0.00	0.00	0.00
12,200.0	90.50	89.56	9,333.4	23.6	3,048.9	3,049.0	0.00	0.00	0.00
12,300.0	90.50	89.56	9,332.6	24.3	3,148.9	3,149.0	0.00	0.00	0.00
12,400.0	90.50	89.56	9,331.7	25.1	3,248.9	3,249.0	0.00	0.00	0.00
12,500.0	90.50	89.56	9,330.8	25.9	3,348.9	3,349.0	0.00	0.00	0.00
12,600.0	90.50	89.56	9,329.9	26.7	3,448.9	3,449.0	0.00	0.00	0.00
12,700.0	90.50	89.56	9,329.1	27.4	3,548.9	3,549.0	0.00	0.00	0.00
12,800.0	90.50	89.56	9,328.2	28.2	3,648.8	3,649.0	0.00	0.00	0.00
12,900.0	90.50	89.56	9,327.3	29.0	3,748.8	3,749.0	0.00	0.00	0.00
13,000.0	90.50	89.56	9,326.4	29.7	3,848.8	3,848.9	0.00	0.00	0.00
13,100.0	90.50	89.56	9,325.6	30.5	3,948.8	3,948.9	0.00	0.00	0.00
13,200.0	90.50	89.56	9,324.7	31.3	4,048.8	4,048.9	0.00	0.00	0.00
13,300.0	90.50	89.56	9,323.8	32.1	4,148.8	4,148.9	0.00	0.00	0.00
13,400.0	90.50	89.56	9,323.0	32.8	4,248.8	4,248.9	0.00	0.00	0.00
13,500.0	90.50	89.56	9,322.1	33.6	4,348.8	4,348.9	0.00	0.00	0.00
13,600.0	90.50	89.56	9,321.2	34.4	4,448.8	4,448.9	0.00	0.00	0.00
13,700.0	90.50	89.56	9,320.3	35.2	4,548.8	4,548.9	0.00	0.00	0.00
13,800.0	90.50	89.56	9,319.5	35.9	4,648.8	4,648.9	0.00	0.00	0.00
13,900.0	90.50	89.56	9,318.6	36.7	4,748.8	4,748.9	0.00	0.00	0.00
14,000.0	90.50	89.56	9,317.7	37.5	4,848.8	4,848.9	0.00	0.00	0.00
14,100.0	90.50	89.56	9,316.8	38.2	4,948.8	4,948.9	0.00	0.00	0.00
14,197.2	90.50	89.56	9,316.0	39.0	5,046.0	5,046.2	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BS 2 24 30 S1H - BHL - - hit/miss target - Shape - Point	0.00	0.00	9,316.0	39.0	5,046.0	454,560.00	692,838.00	32.2487105884	-103.8432783630
BS 2 24 30 S1H - SHL - - plan misses target center by 200.7usft at 9257.8usft MD (9219.1 TVD, 1.1 N, 142.9 E) - Point	0.00	0.00	9,360.0	0.0	0.0	454,521.00	687,792.00	32.2486656355	-103.8596006052