

30-015-39344

Permian District

Poker Lake

PLU Big Sinks 2-25-30 State 1H

Well #1

Wellbore #1

Plan: Design #1



Standard Planning Report

17 August, 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:	PLU Big Sinks 2-25-30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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 2-25-30 State 1H		
Site Position:		Northing:	419,880 58 usft
From:	Map	Easting:	691,095.99 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13 200 in
		Latitude:	32 1534048865
		Longitude:	-103 8494178971
		Grid Convergence:	0 2575589 °

Well:	Well #1		
Well Position	+N/-S	0 0 usft	Northing:
	+E/-W	0 0 usft	Easting:
Position Uncertainty	0 0 usft	Wellhead Elevation:	Ground Level:
			0 0 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	8/17/2011	7 6767600
			Dip Angle
			(°)
			60 0922667
			Field Strength
			(nT)
			48,565

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0 0	0 0	0 0
			Direction:
			(°)
			0 15

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 0000000	
8,726 1	0.00	0 00	8,726 1	0 0	0 0	0 00	0 00	0 00	0 0000000	
9,474 5	89 80	0 15	9,203 6	475 8	1 3	12 00	12 00	0 00	0 1531791	
13,890 1	89.80	0 15	9,219 0	4,891 4	13 1	0 00	0 00	0 00	0 0000000	BS 2-25-30S1H - BHL

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Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00	
100 0	0 00	0 00	100 0	0 0	0 0	0 0	0 00	0 00	0 00	
200 0	0 00	0 00	200 0	0 0	0 0	0 0	0 00	0 00	0 00	
300 0	0 00	0 00	300 0	0 0	0 0	0 0	0 00	0 00	0 00	
400 0	0 00	0 00	400 0	0 0	0 0	0 0	0 00	0 00	0 00	
500 0	0 00	0 00	500 0	0 0	0 0	0 0	0 00	0 00	0 00	
600 0	0 00	0 00	600 0	0 0	0 0	0 0	0 00	0 00	0 00	
700 0	0 00	0 00	700 0	0 0	0 0	0 0	0 00	0 00	0 00	
800 0	0 00	0 00	800 0	0 0	0 0	0 0	0 00	0 00	0 00	
900 0	0 00	0 00	900 0	0 0	0 0	0 0	0 00	0 00	0 00	
1,000 0	0 00	0 00	1,000 0	0 0	0 0	0 0	0 00	0 00	0 00	
1,100 0	0 00	0 00	1,100 0	0 0	0 0	0 0	0 00	0 00	0 00	
1,200 0	0 00	0 00	1,200 0	0 0	0 0	0 0	0 00	0 00	0 00	
1,300 0	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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Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	
5,400.0	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	
8,726.1	0.00	0.00	8,726.1	0.0	0.0	0.0	0.00	0.00	0.00	
8,800.0	8.87	0.15	8,799.7	5.7	0.0	5.7	12.00	12.00	0.00	
8,900.0	20.87	0.15	8,896.2	31.3	0.1	31.3	12.00	12.00	0.00	
9,000.0	32.87	0.15	8,985.2	76.4	0.2	76.4	12.00	12.00	0.00	
9,100.0	44.87	0.15	9,062.9	139.1	0.4	139.1	12.00	12.00	0.00	
9,200.0	56.87	0.15	9,125.9	216.5	0.6	216.5	12.00	12.00	0.00	
9,300.0	68.87	0.15	9,171.5	305.3	0.8	305.3	12.00	12.00	0.00	
9,400.0	80.87	0.15	9,197.5	401.7	1.1	401.7	12.00	12.00	0.00	
9,474.5	89.80	0.15	9,203.6	475.8	1.3	475.8	12.00	12.00	0.00	
9,500.0	89.80	0.15	9,203.7	501.3	1.3	501.3	0.00	0.00	0.00	
9,600.0	89.80	0.15	9,204.0	601.3	1.6	601.3	0.00	0.00	0.00	
9,700.0	89.80	0.15	9,204.4	701.3	1.9	701.3	0.00	0.00	0.00	
9,800.0	89.80	0.15	9,204.7	801.3	2.1	801.3	0.00	0.00	0.00	
9,900.0	89.80	0.15	9,205.1	901.3	2.4	901.3	0.00	0.00	0.00	
10,000.0	89.80	0.15	9,205.4	1,001.3	2.7	1,001.3	0.00	0.00	0.00	
10,100.0	89.80	0.15	9,205.8	1,101.3	2.9	1,101.3	0.00	0.00	0.00	
10,200.0	89.80	0.15	9,206.1	1,201.3	3.2	1,201.3	0.00	0.00	0.00	
10,300.0	89.80	0.15	9,206.5	1,301.3	3.5	1,301.3	0.00	0.00	0.00	
10,400.0	89.80	0.15	9,206.8	1,401.3	3.7	1,401.3	0.00	0.00	0.00	
10,500.0	89.80	0.15	9,207.2	1,501.3	4.0	1,501.3	0.00	0.00	0.00	

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:	PLU Big Sinks 2-25-30 State 1H	North Reference:	Gnd
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)	
10,600 0	89 80	0 15	9,207 5	1,601.3	4 3	1,601 3	0 00	0 00	0 00	
10,700 0	89 80	0 15	9,207 9	1,701.3	4.5	1,701 3	0 00	0 00	0 00	
10,800 0	89 80	0 15	9,208 2	1,801 3	4 8	1,801 3	0 00	0 00	0 00	
10,900 0	89 80	0 15	9,208 6	1,901 3	5 1	1,901 3	0 00	0 00	0 00	
11,000 0	89 80	0 15	9,208 9	2,001 3	5 4	2,001 3	0 00	0 00	0 00	
11,100 0	89 80	0 15	9,209 3	2,101 3	5 6	2,101 3	0 00	0 00	0 00	
11,200 0	89 80	0 15	9,209 6	2,201 3	5 9	2,201 3	0 00	0 00	0 00	
11,300 0	89 80	0 15	9,210 0	2,301 3	6 2	2,301 3	0 00	0 00	0 00	
11,400 0	89 80	0 15	9,210 3	2,401 3	6 4	2,401 3	0 00	0 00	0 00	
11,500 0	89 80	0 15	9,210 7	2,501 3	6 7	2,501 3	0 00	0 00	0 00	
11,600 0	89 80	0 15	9,211 0	2,601 3	7 0	2,601 3	0 00	0 00	0 00	
11,700 0	89 80	0 15	9,211 4	2,701 3	7 2	2,701 3	0 00	0 00	0 00	
11,800 0	89 80	0 15	9,211 7	2,801 3	7 5	2,801 3	0 00	0 00	0 00	
11,900 0	89 80	0 15	9,212 1	2,901 3	7 8	2,901 3	0 00	0 00	0 00	
12,000 0	89 80	0 15	9,212 4	3,001 3	8 0	3,001 3	0 00	0 00	0 00	
12,100 0	89 80	0 15	9,212 8	3,101 3	8 3	3,101 3	0 00	0 00	0 00	
12,200 0	89 80	0 15	9,213 1	3,201 3	8 6	3,201 3	0 00	0 00	0 00	
12,300 0	89 80	0 15	9,213 4	3,301 3	8 8	3,301 3	0 00	0 00	0 00	
12,400 0	89 80	0 15	9,213 8	3,401 3	9 1	3,401 3	0 00	0 00	0 00	
12,500 0	89 80	0 15	9,214 1	3,501 3	9 4	3,501 3	0 00	0 00	0 00	
12,600 0	89 80	0 15	9,214 5	3,601 3	9 6	3,601 3	0 00	0 00	0 00	
12,700 0	89 80	0 15	9,214 8	3,701 3	9 9	3,701 3	0 00	0 00	0 00	
12,800 0	89 80	0 15	9,215 2	3,801 3	10 2	3,801 3	0 00	0 00	0 00	
12,900 0	89 80	0 15	9,215 5	3,901 3	10 4	3,901 3	0 00	0 00	0 00	
13,000 0	89 80	0 15	9,215 9	4,001 3	10 7	4,001 3	0 00	0 00	0 00	
13,100 0	89 80	0 15	9,216 2	4,101 3	11 0	4,101 3	0 00	0 00	0 00	
13,200 0	89 80	0 15	9,216 6	4,201 3	11 2	4,201 3	0 00	0 00	0 00	
13,300 0	89 80	0 15	9,216 9	4,301 3	11 5	4,301 3	0 00	0 00	0 00	
13,400 0	89 80	0 15	9,217 3	4,401 3	11 8	4,401 3	0 00	0 00	0 00	
13,500 0	89 80	0 15	9,217 6	4,501 3	12 0	4,501 3	0 00	0 00	0 00	
13,600 0	89 80	0 15	9,218 0	4,601 3	12 3	4,601 3	0 00	0 00	0 00	
13,700 0	89 80	0 15	9,218 3	4,701 3	12 6	4,701 3	0 00	0 00	0 00	
13,800 0	89 80	0 15	9,218 7	4,801 3	12 8	4,801 3	0 00	0 00	0 00	
13,890 1	89 80	0 15	9,219 0	4,891 4	13 1	4,891 4	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 2-25-30S1H - SHL - F	0 00	0 00	9,202 0	0 0	0 0	419,880 58	691,095 99	32 1534048865	-103 8494178971	
- plan misses target center by 196 6usft at 9100.0usft MD (9062.9 TVD, 139 1 N, 0 4 E)										
- Point										
BS 2-25-30S1H - BHL - I	0 00	0 00	9,219 0	4,891 4	13.1	424,771 95	691,109 06	32 1668502924	-103.8493045703	
- plan hits target center										
- Point										