

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

RM

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM02862
2. Name of Operator CHESAPEAKE OPERATING, INC. Contact: LINDA GOOD E-Mail linda.good@chk.com		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496	3b. Phone No. (include area code) Ph: 405-935-4275	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 26 T24S R30E SWSW 150FSL 600FWL		8. Well Name and No. PLU BIG SINKS 26 FEDERAL 1H
		9. API Well No. 30-015-37031
		10. Field and Pool, or Exploratory WILDCAT
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CHESAPEAKE, REQUESTS ~~VERBAL~~ APPROVAL OF THIS SUNDRY NOTICE. PLEASE FIND THE ATTACHED REVISED DIRECTIONAL DRILLING PLAN AND REVISED PILOT HOLE PLAN. WE PLAN TO SPUD THIS WELL THE WEEK OF OCTOBER 19TH.

(CHK PN 624842)

Plug at bottom of pilot hole to extend
to a minimum of 50' above Wolfcamp.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #75653 verified by the BLM Well Information System For CHESAPEAKE OPERATING, INC., sent to the Carlsbad	
Name (Printed/Typed) LINDA GOOD	Title SR. REGULATORY COMPLIANCE SPEC
Signature (Electronic Submission)	Date 10/14/2009
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By	Title
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office	Date
WESLEY W. INGRAM PETROLEUM ENGINEER	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction	

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****



Chesapeake Operating, Inc.

Field: Eddy Co, NM NAD 83
Site: PLU Big Sinks 26 Federal 1H
Well: PLU Big Sinks 26 Federal 1H
Wellpath: 26 Fed 1H ST1
Plan: Plan #2



Azimuths to Grid North
True North -0.25°
Magnetic North 7.65°
Magnetic Field
Strength 48781nT
Dip Angle 60.16°
Date 10/14/2009
Model igr2005

SITE DETAILS

PLU Big Sinks 26 Federal 1H
Reeves Co NM
Site Centre Northing 430289.47
Easting 688289.42
Ground Level 3338.00
Positional Uncertainty 0.00
Convergence 0.25

FIELD DETAILS

Eddy Co, NM NAD 83
USA
Geodetic System US State Plane Coordinate System 1983
Ellipsoid GRS 1980
Zone New Mexico, Eastern Zone
Magnetic Model igr2005
System Datum Mean Sea Level
Local North Grid North

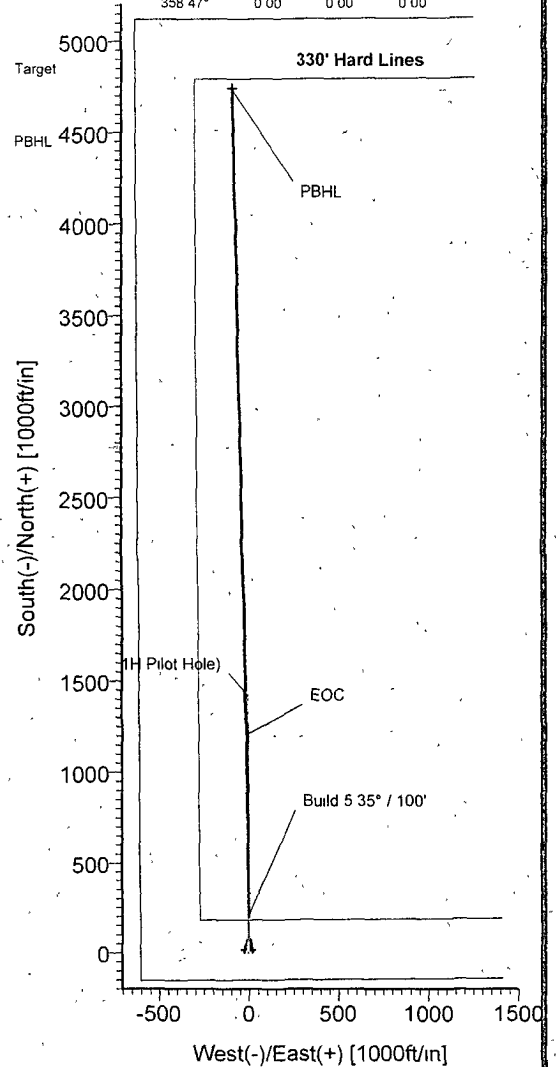
WELLPATH DETAILS

26 Fed 1H ST1
Parent Wellpath 26 Fed 1H Pilot Hole
Tie on MD 0.00
Rig Latchshaw # 6
Ref Datum SITE 3360.00ft
V Section Angle 358.47°
Origin +N/-S 0.00
Origin +E/-W 0.00
Starting From TVD 0.00

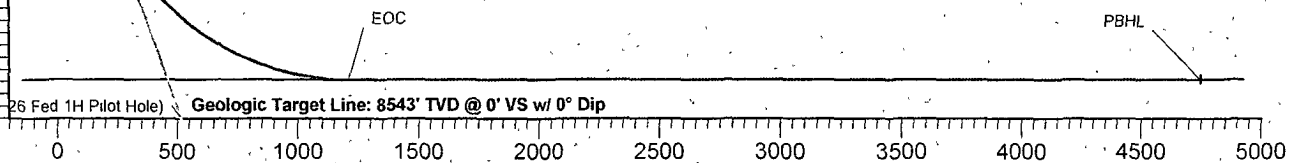
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7863.00	20.00	360.00	7838.02	199.99	0.00	0.00	0.00	199.92	
2	9171.98	90.00	359.00	8543.00	1206.70	-13.04	5.35	-1.06	1206.61	
3	12003.95	90.00	358.69	8543.00	4038.09	-69.97	0.01	-90.02	4038.52	
4	12710.88	90.00	358.69	8543.00	4744.84	-86.10	0.00	0.00	4745.44	PBHL

True Vertical Depth [750ft/in]



Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8543.00	4744.84	-86.10	435034.31	688203.32	32°11'42.335N	103°51'30.791W	Point



Ryan Energy Technologies
19510 Oil Center Blvd
Houston, TX 77073
Ph 281-443-1414
Fx 281-443-1676



Plan: Plan #2 (PLU Big Sinks 26 Federal 1H ST1)
Created by Michael A. Lawson Date 10/14/2009
Checked by _____ Date _____
Reviewed by _____ Date _____
Approved by _____ Date _____



Ryan Energy Technologies Planning Report



Company: Chesapeake Operating, Inc.
Field: Eddy Co, NM NAD 83
Site: PLU Big Sinks 26 Federal 1H
Well: PLU Big Sinks 26 Federal 1H
Wellpath: 26 Fed 1H ST1

Date: 10/14/2009 **Time:** 16:15:07 **Page:** 1
Co-ordinate(N/E) Reference: PLU Big Sinks 26 Federal 1H
Vertical (TVD) Reference: SITE 3360.0
Section (VS) Reference: Well (0.00N,0.00E,358.47Azi)
Plan: Plan #2

Field: Eddy Co, NM NAD 83

USA
Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2005

Site: PLU Big Sinks 26 Federal 1H

Reeves Co. NM

Site Position: Northing: 430289.47 ft Latitude: 32 10 55.377 N
From: Map Easting: 688289.42 ft Longitude: 103 51 30.033 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3338.00 ft Grid Convergence: 0.25 deg

Well: PLU Big Sinks 26 Federal 1H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 430289.47 ft Latitude: 32 10 55.377 N
+E/-W 0.00 ft Easting: 688289.42 ft Longitude: 103 51 30.033 W
Position Uncertainty: 0.00 ft

Wellpath: 26 Fed 1H ST1

Current Datum: SITE **Height:** 3360.00 ft
Magnetic Data: 10/14/2009
Field Strength: 48781 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00
Drilled From: 26 Fed 1H Pilot Hole
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.90 deg
Mag Dip Angle: 60.16 deg
+E/-W Direction
ft deg
0.00 358.47

Plan: Plan #2

Date Composed: 10/14/2009
Version: 1
Tied-to: User Defined

Principal: Yes

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
7863.00	20.00	360.00	7838.02	199.99	0.00	0.00	0.00	0.00	0.00	
9171.98	90.00	359.00	8543.00	1206.70	-13.04	5.35	5.35	-0.08	-1.06	
12003.95	90.00	358.69	8543.00	4038.09	-69.97	0.01	0.00	-0.01	-90.02	
12710.88	90.00	358.69	8543.00	4744.84	-86.10	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7863.00	20.00	360.00	7838.02	199.99	0.00	199.92	0.00	0.00	0.00	Build 5 35° / 100'
7900.00	21.98	359.90	7872.56	213.25	-0.01	213.17	5.35	5.35	-0.26	
8000.00	27.33	359.71	7963.41	254.94	-0.16	254.85	5.35	5.35	-0.20	
8100.00	32.67	359.57	8049.98	304.92	-0.48	304.82	5.35	5.35	-0.14	
8200.00	38.02	359.47	8131.52	362.75	-0.97	362.65	5.35	5.35	-0.10	
8300.00	43.37	359.39	8207.31	427.93	-1.63	427.82	5.35	5.35	-0.08	
8400.00	48.72	359.32	8276.70	499.88	-2.44	499.77	5.35	5.35	-0.07	
8500.00	54.06	359.27	8339.08	577.99	-3.40	577.87	5.35	5.35	-0.06	
8600.00	59.41	359.22	8393.91	661.57	-4.51	661.45	5.35	5.35	-0.05	
8700.00	64.76	359.17	8440.70	749.89	-5.75	749.78	5.35	5.35	-0.04	
8800.00	70.11	359.14	8479.07	842.19	-7.11	842.08	5.35	5.35	-0.04	
8900.00	75.45	359.10	8508.66	937.66	-8.58	937.56	5.35	5.35	-0.04	
9000.00	80.80	359.06	8529.22	1035.47	-10.15	1035.38	5.35	5.35	-0.04	
9100.00	86.15	359.03	8540.58	1134.78	-11.81	1134.69	5.35	5.35	-0.03	
9171.98	90.00	359.00	8543.00	1206.70	-13.04	1206.61	5.35	5.35	-0.03	EOC
9200.00	90.00	359.00	8543.00	1234.71	-13.53	1234.63	0.01	0.00	-0.01	
9300.00	90.00	358.99	8543.00	1334.69	-15.28	1334.63	0.01	0.00	-0.01	



Ryan Energy Technologies Planning Report



Company: Chesapeake Operating, Inc
Field: Eddy Co, NM NAD 83
Site: PLU Big Sinks 26 Federal 1H
Well: PLU Big Sinks 26 Federal 1H
Wellpath: 26 Fed 1H ST1

Date: 10/14/2009 **Time:** 16.15:07 **Page:** 2
Co-ordinate(NE) Reference: PLU Big Sinks 26 Federal 1H
Vertical (TVD) Reference: SITE 3360 0
Section (VS) Reference: Well (0 00N,0 00E,358.47Azi)
Plan: Plan #2

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
9400.00	90.00	358.98	8543.00	1434.68	-17.06	1434.62	0.01	0.00	-0.01	
9500.00	90.00	358.97	8543.00	1534.66	-18.85	1534.62	0.01	0.00	-0.01	
9600.00	90.00	358.96	8543.00	1634.64	-20.66	1634.61	0.01	0.00	-0.01	
9700.00	90.00	358.95	8543.00	1734.63	-22.49	1734.61	0.01	0.00	-0.01	
9800.00	90.00	358.93	8543.00	1834.61	-24.34	1834.61	0.01	0.00	-0.01	
9900.00	90.00	358.92	8543.00	1934.59	-26.21	1934.60	0.01	0.00	-0.01	
10000.00	90.00	358.91	8543.00	2034.58	-28.09	2034.60	0.01	0.00	-0.01	
10100.00	90.00	358.90	8543.00	2134.56	-30.00	2134.60	0.01	0.00	-0.01	
10200.00	90.00	358.89	8543.00	2234.54	-31.93	2234.59	0.01	0.00	-0.01	
10300.00	90.00	358.88	8543.00	2334.52	-33.87	2334.59	0.01	0.00	-0.01	
10400.00	90.00	358.87	8543.00	2434.50	-35.84	2434.59	0.01	0.00	-0.01	
10500.00	90.00	358.86	8543.00	2534.48	-37.82	2534.59	0.01	0.00	-0.01	
10600.00	90.00	358.85	8543.00	2634.46	-39.82	2634.59	0.01	0.00	-0.01	
10700.00	90.00	358.84	8543.00	2734.44	-41.85	2734.58	0.01	0.00	-0.01	
10800.00	90.00	358.82	8543.00	2834.42	-43.89	2834.58	0.01	0.00	-0.01	
10900.00	90.00	358.81	8543.00	2934.40	-45.95	2934.58	0.01	0.00	-0.01	
11000.00	90.00	358.80	8543.00	3034.38	-48.03	3034.58	0.01	0.00	-0.01	
11100.00	90.00	358.79	8543.00	3134.35	-50.13	3134.58	0.01	0.00	-0.01	
11200.00	90.00	358.78	8543.00	3234.33	-52.24	3234.57	0.01	0.00	-0.01	
11300.00	90.00	358.77	8543.00	3334.31	-54.38	3334.57	0.01	0.00	-0.01	
11400.00	90.00	358.76	8543.00	3434.29	-56.54	3434.57	0.01	0.00	-0.01	
11500.00	90.00	358.75	8543.00	3534.26	-58.71	3534.57	0.01	0.00	-0.01	
11600.00	90.00	358.74	8543.00	3634.24	-60.91	3634.57	0.01	0.00	-0.01	
11700.00	90.00	358.73	8543.00	3734.21	-63.12	3734.57	0.01	0.00	-0.01	
11800.00	90.00	358.71	8543.00	3834.19	-65.36	3834.57	0.01	0.00	-0.01	
11900.00	90.00	358.70	8543.00	3934.16	-67.61	3934.57	0.01	0.00	-0.01	
12003.95	90.00	358.69	8543.00	4038.09	-69.97	4038.52	0.01	0.00	-0.01	
12100.00	90.00	358.69	8543.00	4134.11	-72.16	4134.56	0.00	0.00	0.00	
12200.00	90.00	358.69	8543.00	4234.09	-74.44	4234.56	0.00	0.00	0.00	
12300.00	90.00	358.69	8543.00	4334.06	-76.73	4334.56	0.00	0.00	0.00	
12400.00	90.00	358.69	8543.00	4434.03	-79.01	4434.56	0.00	0.00	0.00	
12500.00	90.00	358.69	8543.00	4534.01	-81.29	4534.56	0.00	0.00	0.00	
12600.00	90.00	358.69	8543.00	4633.98	-83.57	4634.56	0.00	0.00	0.00	
12700.00	90.00	358.69	8543.00	4733.96	-85.85	4734.56	0.00	0.00	0.00	Target Line
12710.88	90.00	358.69	8543.00	4744.84	-86.10	4745.44	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---><--- Longitude --->		
PBHL		8543.00	4744.84	-86.10	435034.31	688203.32	32	11	42.335 N 103 51 30.791 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
12700.00	8543.00	Target Line		0.00	358.47

Annotation

MD ft	TVD ft	
7863.00	7838.02	Build 5.35° / 100'
9171.98	8543.00	EOC

Permian District

Poker Lake

PLU Big Sinks 26 Fed 1H

PLU Big Sinks 26 Fed 1H

Lateral

Plan: Lateral Design #3

Standard Planning Report

14 October, 2009

Chesapeake Operating

Planning Report

Database: Drilling Database
Company: Permian District
Project: Poker Lake
Site: PLU Big Sinks 26 Fed 1H
Well: PLU Big Sinks 26 Fed 1H
Wellbore: Lateral
Design: Lateral Design #3

Local Co-ordinate Reference: Well PLU Big Sinks 26 Fed 1H
TVD Reference: WELL @ 0 0ft (Original Well Elev)
MD Reference: WELL @ 0 0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project Poker Lake, Eddy County, NM

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site PLU Big Sinks 26 Fed 1H

Site Position:		Northing:	430,290.76 ft	Latitude:	32° 10' 55 39000000 N
From:	Lat/Long	Easting:	688,288.82 ft	Longitude:	103° 51' 30 04000000 W
Position Uncertainty:	0 0 ft	Slot Radius:	0 000 in	Grid Convergence:	0 25 °

Well PLU Big Sinks 26 Fed 1H

Well Position	+N/-S	0 0 ft	Northing:	430,290 76 ft	Latitude:	32° 10' 55 39000000 N
	+E/-W	0.0 ft	Easting:	688,288 82 ft	Longitude:	103° 51' 30 04000000 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0 0ft

Wellbore Lateral

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	10/10/2009	0 00	0 00	0

Design Lateral Design #3

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 7,863.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	358.96

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
7,863 0	20 00	360 00	7,838 0	200 0	0 0	0 00	0 00	0 00	0.00	
9,172 0	90.00	359.00	8,543.0	1,206 7	-13 1	5 35	5 35	-0.08	-1 06	
11,274 9	90 00	358.74	8,543 0	3,309.2	-54.5	0 01	0 00	-0 01	-90.00	TD Target
12,688 8	90 00	358 74	8,543.0	4,722 8	-85 6	0 00	0.00	0.00	0.00	TD Target

Chesapeake Operating

Planning Report

Database: Drilling Database
 Company: Permian District
 Project: Poker Lake
 Site: PLU Big Sinks 26 Fed 1H
 Well: PLU Big Sinks 26 Fed 1H
 Wellbore: Lateral
 Design: Lateral Design #3

Local Co-ordinate Reference: Well PLU Big Sinks 26 Fed 1H
 TVD Reference: WELL @ 0.0ft (Original Well Elev)
 MD Reference: WELL @ 0.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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

Chesapeake Operating

Planning Report

Database: Drilling Database
 Company: Permian District
 Project: Poker Lake
 Site: PLU Big Sinks 26 Fed 1H
 Well: PLU Big Sinks 26 Fed 1H
 Wellbore: Lateral
 Design: Lateral Design #3

Local Co-ordinate Reference: Well PLU Big Sinks 26 Fed 1H
 TVD Reference: WELL @ 0 0ft (Original Well Elev)
 MD Reference: WELL @ 0 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
6,783.4	0.00	0.00	6,783.4	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.33	360.00	6,800.0	0.0	0.0	0.0	2.00	2.00	0.00
6,900.0	2.33	360.00	6,900.0	2.4	0.0	2.4	2.00	2.00	0.00
7,000.0	4.33	360.00	6,999.8	8.2	0.0	8.2	2.00	2.00	0.00
7,100.0	6.33	360.00	7,099.4	17.5	0.0	17.5	2.00	2.00	0.00
7,200.0	8.33	360.00	7,198.5	30.2	0.0	30.2	2.00	2.00	0.00
7,300.0	10.33	360.00	7,297.2	46.5	0.0	46.5	2.00	2.00	0.00
7,400.0	12.33	360.00	7,395.2	66.1	0.0	66.1	2.00	2.00	0.00
7,500.0	14.33	360.00	7,492.5	89.2	0.0	89.2	2.00	2.00	0.00
7,600.0	16.33	360.00	7,589.0	115.6	0.0	115.6	2.00	2.00	0.00
7,700.0	18.33	360.00	7,684.4	145.4	0.0	145.4	2.00	2.00	0.00
7,783.4	20.00	360.00	7,763.2	172.8	0.0	172.7	2.00	2.00	0.00
7,800.0	20.00	360.00	7,778.8	178.5	0.0	178.4	0.00	0.00	0.00
7,863.0	20.00	360.00	7,838.0	200.0	0.0	200.0	0.00	0.00	0.00
7,900.0	21.98	359.90	7,872.6	213.3	0.0	213.2	5.35	5.35	-0.27
8,000.0	27.33	359.70	7,963.4	255.0	-0.2	254.9	5.35	5.35	-0.20
8,100.0	32.67	359.57	8,050.0	304.9	-0.5	304.9	5.35	5.35	-0.14
8,200.0	38.02	359.47	8,131.5	362.8	-1.0	362.7	5.35	5.35	-0.10
8,300.0	43.37	359.39	8,207.3	427.9	-1.6	427.9	5.35	5.35	-0.08
8,400.0	48.72	359.32	8,276.7	499.9	-2.4	499.9	5.35	5.35	-0.07
8,500.0	54.06	359.26	8,339.1	578.0	-3.4	578.0	5.35	5.35	-0.06
8,600.0	59.41	359.22	8,393.9	661.6	-4.5	661.5	5.35	5.35	-0.05
8,700.0	64.76	359.17	8,440.7	749.9	-5.8	749.9	5.35	5.35	-0.04
8,800.0	70.11	359.13	8,479.1	842.2	-7.1	842.2	5.35	5.35	-0.04
8,900.0	75.45	359.09	8,508.7	937.7	-8.6	937.7	5.35	5.35	-0.04
9,000.0	80.80	359.06	8,529.2	1,035.5	-10.2	1,035.5	5.35	5.35	-0.04
9,100.0	86.15	359.02	8,540.6	1,134.8	-11.9	1,134.8	5.35	5.35	-0.03
9,172.0	90.00	359.00	8,543.0	1,206.7	-13.1	1,206.8	5.35	5.35	-0.03
9,200.0	90.00	359.00	8,543.0	1,234.7	-13.6	1,234.8	0.01	0.00	-0.01
9,300.0	90.00	358.98	8,543.0	1,334.7	-15.3	1,334.8	0.01	0.00	-0.01
9,400.0	90.00	358.97	8,543.0	1,434.7	-17.1	1,434.8	0.01	0.00	-0.01
9,500.0	90.00	358.96	8,543.0	1,534.7	-18.9	1,534.8	0.01	0.00	-0.01
9,600.0	90.00	358.95	8,543.0	1,634.7	-20.8	1,634.8	0.01	0.00	-0.01
9,700.0	90.00	358.94	8,543.0	1,734.6	-22.6	1,734.8	0.01	0.00	-0.01
9,800.0	90.00	358.92	8,543.0	1,834.6	-24.5	1,834.8	0.01	0.00	-0.01
9,900.0	90.00	358.91	8,543.0	1,934.6	-26.4	1,934.8	0.01	0.00	-0.01
10,000.0	90.00	358.90	8,543.0	2,034.6	-28.3	2,034.8	0.01	0.00	-0.01
10,100.0	90.00	358.89	8,543.0	2,134.6	-30.2	2,134.8	0.01	0.00	-0.01
10,200.0	90.00	358.87	8,543.0	2,234.5	-32.2	2,234.8	0.01	0.00	-0.01

Chesapeake Operating

Planning Report

Database: Drilling Database
 Company: Permian District
 Project: Poker Lake
 Site: PLU Big Sinks 26 Fed 1H
 Well: PLU Big Sinks 26 Fed 1H
 Wellbore: Lateral
 Design: Lateral Design #3

Local Co-ordinate Reference: Well PLU Big Sinks 26 Fed 1H
 TVD Reference: WELL @ 0 0ft (Original Well Elev)
 MD Reference: WELL @ 0 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,300.0	90.00	358.86	8,543.0	2,334.5	-34.1	2,334.8	0.01	0.00	-0.01
10,400.0	90.00	358.85	8,543.0	2,434.5	-36.1	2,434.8	0.01	0.00	-0.01
10,500.0	90.00	358.84	8,543.0	2,534.5	-38.2	2,534.8	0.01	0.00	-0.01
10,600.0	90.00	358.83	8,543.0	2,634.5	-40.2	2,634.8	0.01	0.00	-0.01
10,700.0	90.00	358.81	8,543.0	2,734.4	-42.3	2,734.8	0.01	0.00	-0.01
10,800.0	90.00	358.80	8,543.0	2,834.4	-44.3	2,834.8	0.01	0.00	-0.01
10,900.0	90.00	358.79	8,543.0	2,934.4	-46.4	2,934.8	0.01	0.00	-0.01
11,000.0	90.00	358.78	8,543.0	3,034.4	-48.6	3,034.8	0.01	0.00	-0.01
11,100.0	90.00	358.76	8,543.0	3,134.4	-50.7	3,134.8	0.01	0.00	-0.01
11,200.0	90.00	358.75	8,543.0	3,234.3	-52.9	3,234.8	0.01	0.00	-0.01
11,274.9	90.00	358.74	8,543.0	3,309.2	-54.5	3,309.7	0.01	0.00	-0.01
11,300.0	90.00	358.74	8,543.0	3,334.3	-55.1	3,334.8	0.00	0.00	0.00
11,400.0	90.00	358.74	8,543.0	3,434.3	-57.3	3,434.8	0.00	0.00	0.00
11,500.0	90.00	358.74	8,543.0	3,534.3	-59.5	3,534.8	0.00	0.00	0.00
11,600.0	90.00	358.74	8,543.0	3,634.2	-61.7	3,634.8	0.00	0.00	0.00
11,700.0	90.00	358.74	8,543.0	3,734.2	-63.8	3,734.8	0.00	0.00	0.00
11,800.0	90.00	358.74	8,543.0	3,834.2	-66.0	3,834.8	0.00	0.00	0.00
11,900.0	90.00	358.74	8,543.0	3,934.2	-68.2	3,934.8	0.00	0.00	0.00
12,000.0	90.00	358.74	8,543.0	4,034.1	-70.4	4,034.8	0.00	0.00	0.00
12,100.0	90.00	358.74	8,543.0	4,134.1	-72.6	4,134.7	0.00	0.00	0.00
12,200.0	90.00	358.74	8,543.0	4,234.1	-74.8	4,234.7	0.00	0.00	0.00
12,300.0	90.00	358.74	8,543.0	4,334.1	-77.0	4,334.7	0.00	0.00	0.00
12,400.0	90.00	358.74	8,543.0	4,434.0	-79.2	4,434.7	0.00	0.00	0.00
12,500.0	90.00	358.74	8,543.0	4,534.0	-81.4	4,534.7	0.00	0.00	0.00
12,600.0	90.00	358.74	8,543.0	4,634.0	-83.6	4,634.7	0.00	0.00	0.00
12,688.8	90.00	358.74	8,543.0	4,722.8	-85.6	4,723.6	0.00	0.00	0.00

Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TD Target	- plan hits target center	0.00	0.00	8,543.0	4,722.8	-85.6	435,013.12	688,182.42	2° 11' 42.12600000 N	3° 51' 31.03560000 W
Bone Spring Top	- plan hits target center	0.00	0.00	7,838.0	200.0	0.0	430,490.76	688,287.94	2° 10' 57.36917714 N	3° 51' 30.04000074 W
Lateral Design #2 TD	- plan hits target center	0.00	0.25	8,543.0	4,722.8	-85.6	435,013.12	688,182.42	2° 11' 42.12600000 N	3° 51' 31.03560000 W

Permian District

Poker Lake

PLU Big Sinks 26 Fed 1H

PLU Big Sinks 26 Fed 1H

Pilot Hole

Plan: Pilot design 2

Standard Planning Report

14 October, 2009

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well PLU Big Sinks 26 Fed 1H
Company:	Permian District	TVD Reference:	WELL @ 0 0ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 0 0ft (Original Well Elev)
Site:	PLU Big Sinks 26 Fed 1H	North Reference:	True
Well:	PLU Big Sinks 26 Fed 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Pilot design 2		

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

Site:	PLU Big Sinks 26 Fed 1H				
Site Position:		Northing:	430,290.76 ft	Latitude:	32° 10' 55.39000000 N
From:	Lat/Long	Easting:	688,288.82 ft	Longitude:	103° 51' 30.04000000 W
Position Uncertainty:	0 0 ft	Slot Radius:	0 000 in	Grid Convergence:	0.25 °

Well:	PLU Big Sinks 26 Fed 1H					
Well Position	+N/-S	0.0 ft	Northing:	430,290.76 ft	Latitude:	32° 10' 55.39000000 N
	+E/-W	0.0 ft	Easting:	688,288.82 ft	Longitude:	103° 51' 30.04000000 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	0 0 ft

Wellbore:	Pilot Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	User Defined	10/10/2009	(°) 0 00	(°) 0 00	(nT) 0

Design:	Pilot design 2			
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	0 00

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100ft)	(°/100ft)	(°/100ft)		
0 0	0 00	0 00	0 0	0.0	0 0	0 00	0 00	0 00	0 00	
6,783.4	0.00	0.00	6,783.4	0 0	0 0	0 00	0 00	0 00	0 00	
7,783.4	20.00	360 00	7,763.2	172.8	0 0	2 00	2 00	0 00	360 00	
7,863.0	20 00	360 00	7,838.0	200 0	0 0	0.00	0.00	0 00	0.00	Bone Spring Top
11,440.8	20.00	360 00	11,200.0	1,423.7	0 0	0.00	0 00	0 00	0 00	

Chesapeake Operating

Planning Report

Database: Drilling Database
 Company: Permian District
 Project: Poker Lake
 Site: PLU Big Sinks 26 Fed 1H
 Well: PLU Big Sinks 26 Fed 1H
 Wellbore: Pilot Hole
 Design: Pilot design 2

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well PLU Big Sinks 26 Fed 1H
 WELL @ 0.0ft (Original Well Elev)
 WELL @ 0.0ft (Original Well Elev)
 True
 Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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

Chesapeake Operating

Planning Report

Database: Drilling Database

Company: Permian District

Project: Poker Lake

Site: PLU Big Sinks 26 Fed 1H

Well: PLU Big Sinks 26 Fed 1H

Wellbore: Pilot Hole

Design: Pilot design 2

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well PLU Big Sinks 26 Fed 1H

WELL @ 0.0ft (Original Well Elev)

WELL @ 0.0ft (Original Well Elev)

True

Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
6,783.4	0.00	0.00	6,783.4	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.33	360.00	6,800.0	0.0	0.0	0.0	2.00	2.00	0.00
6,900.0	2.33	360.00	6,900.0	2.4	0.0	2.4	2.00	2.00	0.00
7,000.0	4.33	360.00	6,999.8	8.2	0.0	8.2	2.00	2.00	0.00
7,100.0	6.33	360.00	7,099.4	17.5	0.0	17.5	2.00	2.00	0.00
7,200.0	8.33	360.00	7,198.5	30.2	0.0	30.2	2.00	2.00	0.00
7,300.0	10.33	360.00	7,297.2	46.5	0.0	46.5	2.00	2.00	0.00
7,400.0	12.33	360.00	7,395.2	66.1	0.0	66.1	2.00	2.00	0.00
7,500.0	14.33	360.00	7,492.5	89.2	0.0	89.2	2.00	2.00	0.00
7,600.0	16.33	360.00	7,589.0	115.6	0.0	115.6	2.00	2.00	0.00
7,700.0	18.33	360.00	7,684.4	145.4	0.0	145.4	2.00	2.00	0.00
7,783.4	20.00	360.00	7,763.2	172.8	0.0	172.8	2.00	2.00	0.00
7,800.0	20.00	360.00	7,778.8	178.5	0.0	178.5	0.00	0.00	0.00
7,863.0	20.00	360.00	7,838.0	200.0	0.0	200.0	0.00	0.00	0.00
7,900.0	20.00	360.00	7,872.8	212.7	0.0	212.7	0.00	0.00	0.00
8,000.0	20.00	360.00	7,966.8	246.9	0.0	246.9	0.00	0.00	0.00
8,100.0	20.00	360.00	8,060.7	281.1	0.0	281.1	0.00	0.00	0.00
8,200.0	20.00	360.00	8,154.7	315.3	0.0	315.3	0.00	0.00	0.00
8,300.0	20.00	360.00	8,248.7	349.5	0.0	349.5	0.00	0.00	0.00
8,400.0	20.00	360.00	8,342.6	383.7	0.0	383.7	0.00	0.00	0.00
8,500.0	20.00	360.00	8,436.6	417.9	0.0	417.9	0.00	0.00	0.00
8,600.0	20.00	360.00	8,530.6	452.1	0.0	452.1	0.00	0.00	0.00
8,700.0	20.00	360.00	8,624.5	486.3	0.0	486.3	0.00	0.00	0.00
8,800.0	20.00	360.00	8,718.5	520.5	0.0	520.5	0.00	0.00	0.00
8,900.0	20.00	360.00	8,812.5	554.7	0.0	554.7	0.00	0.00	0.00
9,000.0	20.00	360.00	8,906.4	588.9	0.0	588.9	0.00	0.00	0.00
9,100.0	20.00	360.00	9,000.4	623.1	0.0	623.1	0.00	0.00	0.00
9,200.0	20.00	360.00	9,094.4	657.3	0.0	657.3	0.00	0.00	0.00
9,300.0	20.00	360.00	9,188.4	691.5	0.0	691.5	0.00	0.00	0.00
9,400.0	20.00	360.00	9,282.3	725.7	0.0	725.7	0.00	0.00	0.00
9,500.0	20.00	360.00	9,376.3	759.9	0.0	759.9	0.00	0.00	0.00
9,600.0	20.00	360.00	9,470.3	794.1	0.0	794.1	0.00	0.00	0.00
9,700.0	20.00	360.00	9,564.2	828.3	0.0	828.3	0.00	0.00	0.00
9,800.0	20.00	360.00	9,658.2	862.5	0.0	862.5	0.00	0.00	0.00
9,900.0	20.00	360.00	9,752.2	896.7	0.0	896.7	0.00	0.00	0.00
10,000.0	20.00	360.00	9,846.1	930.9	0.0	930.9	0.00	0.00	0.00
10,100.0	20.00	360.00	9,940.1	965.1	0.0	965.1	0.00	0.00	0.00
10,200.0	20.00	360.00	10,034.1	999.3	0.0	999.3	0.00	0.00	0.00
10,300.0	20.00	360.00	10,128.0	1,033.5	0.0	1,033.5	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database: Drilling Database
Company: Permian District
Project: Poker Lake
Site: PLU Big Sinks 26 Fed 1H
Well: PLU Big Sinks 26 Fed 1H
Wellbore: Pilot Hole
Design: Pilot design 2

Local Co-ordinate Reference: Well PLU Big Sinks 26 Fed 1H
TVD Reference: WELL @ 0.0ft (Original Well Elev)
MD Reference: WELL @ 0.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,400.0	20.00	360.00	10,222.0	1,067.7	0.0	1,067.7	0.00	0.00	0.00
10,500.0	20.00	360.00	10,316.0	1,101.9	0.0	1,101.9	0.00	0.00	0.00
10,600.0	20.00	360.00	10,410.0	1,136.1	0.0	1,136.1	0.00	0.00	0.00
10,700.0	20.00	360.00	10,503.9	1,170.3	0.0	1,170.3	0.00	0.00	0.00
10,800.0	20.00	360.00	10,597.9	1,204.5	0.0	1,204.5	0.00	0.00	0.00
10,900.0	20.00	360.00	10,691.9	1,238.7	0.0	1,238.7	0.00	0.00	0.00
11,000.0	20.00	360.00	10,785.8	1,272.9	0.0	1,272.9	0.00	0.00	0.00
11,100.0	20.00	360.00	10,879.8	1,307.1	0.0	1,307.1	0.00	0.00	0.00
11,200.0	20.00	360.00	10,973.8	1,341.3	0.0	1,341.3	0.00	0.00	0.00
11,300.0	20.00	360.00	11,067.7	1,375.5	0.0	1,375.5	0.00	0.00	0.00
11,400.0	20.00	360.00	11,161.7	1,409.7	0.0	1,409.7	0.00	0.00	0.00
11,440.8	20.00	360.00	11,200.0	1,423.7	0.0	1,423.7	0.00	0.00	0.00

Targets

Target Name

hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
Start of drop off	0.00	0.00	8,102.0	502.0	0.0	430,792.75	688,286.60	32° 11' 0.35773429 N	3° 51' 30.04000156 W
- plan misses target center by 193.5ft at 8214.4ft MD (8168.2 TVD, 320.2 N, 0.0 E)									
- Point									
Bone Spring Top	0.00	0.00	7,838.0	200.0	0.0	430,490.76	688,287.94	2° 10' 57.36917714 N	3° 51' 30.04000074 W
- plan hits target center									
- Point									