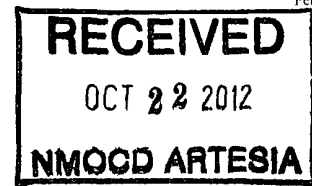


District I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 N. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised August 1, 2011



APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Chevron U S A, Inc. 15 Smith Road Midland, TX 79705		² OGRID Number 4323 ³ API Number 30-015-40813
⁴ Property Code 39518	⁵ Property Name PLU PHANTOM BANKS 32 25 31 STATE	⁶ Well No. 1H

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	32	25 S	31 E		150'	North	660'	West	Eddy

⁸ Pool Information

WC; BIG SINKS, BONE SPRING (Pool Code # 96654)	96654
--	-------

Additional Well Information

⁹ Work Type N	¹⁰ Well Type O	¹¹ Cable/Rotary R	¹² Lease Type S	¹³ Ground Level Elevation 3323'
¹⁴ Multiple No	¹⁵ Proposed Depth 13,952'	¹⁶ Formation Bone Spring	¹⁷ Contractor Trinidad or TBD	¹⁸ Spud Date
Depth to Ground water 292'		Distance from nearest fresh water well 2.5 Miles		Distance to nearest surface water 10.8 miles

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Conductor	30"	20"	68#	120'	Sufficient to Circ	0'
Surface	17 1/2"	13 3/8"	48#	1200'	1731	0'
Intermediate	11"	8 5/8"	32#	4025'	1663	0'
Production	7 7/8"	5 1/2"	17#	13,952'	2011	3916'

Casing/Cement Program: Additional Comments

NMOCD's forms C-102, C-144(CLEZ) pit permit, well bore diagram, and directional planning report is attached. There are no known high levels of H2S in this area. However, monitoring of H2S and well readiness will be utilized in the drilling of this well.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Shaffer

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ .	OIL CONSERVATION DIVISION	
Printed name: Bryan Arrant (Agent)	Approved By:	
Title: Regulatory Specialist II	Title:	
E-mail Address: bryan.arrant@chk.com	Approved Date: 10/22/2012	Expiration Date: 10/22/2014
Date: 10/19/2012	Phone: (405)935-3782	Conditions of Approval Attached

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40813	² Pool Code 96654	³ Pool Name WC; BIG SINKS, BONE SPRING
⁴ Property Code 39518	⁵ Property Name PLU PHANTOM BANKS 32 25 31 STATE	⁶ Well Number 1H
⁷ OGRD No. 4323	⁸ Operator Name Chevron U S A, Inc.	⁹ Elevation 3323'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	25 SOUTH	31 EAST, N.M.P.M.		150'	NORTH	660'	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	25 SOUTH	31 EAST, N.M.P.M.		330'	SOUTH	660'	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160		Consolidation Code	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	PLU PHANTOM BANKS 32 25 31 STATE 1H X= 663,191 NAD 27 Y= 398,101 LAT. 32.093401 LONG. 103.806369 X= 704,377 NAD83 Y= 398,159 LAT. 32.093525 LONG. 103.806847 ELEVATION +3323' NAVD 88	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 10/19/2012 Signature Date Bryan Arrant Printed Name bryan.arrant@chk.com E-mail Address
	PROPOSED BOTTOM HOLE LOCATION X= 663,215 NAD 27 Y= 393,274 LAT. 32.080129 LONG. 103.806370 X= 704,401 NAD83 Y= 393,331 LAT. 32.080254 LONG. 103.806847	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. <i>[Signature]</i> 10/22/2012 Date of Survey Signature and Seal of Professional Surveyor NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR #15078 Certificate Number

**Closed Loop System
PLU Phantom Banks 32 25 31 USA 1H
Unit D, Sec. 32, T-25-S R-31-E
Eddy Co., NM
API # 30-015- _ _ _ _**

To use a closed loop system with roll-off steel pits for the maintenance of the drilling mud fluids and drill cuttings. Operator will maintain all solids and liquids within the closed loop system in a safe manner in order to protect public health and the environment.

Operations & Maintenance:

During each tour, the rig's drilling crew will inspect and monitor the drilling fluids contained within the steel pits and visually monitor any spill which may occur. Should a spill, release, or leak occur; the NMOCD District II office in Artesia (575-748-1283) will be notified. Please note that notifications may be made earlier to the district office should a greater release occur per NMOCD's rules.

Closure:

During and after drilling operations, drilling fluids and cuttings will be hauled to Controlled Recovery, Inc. Permit # NM-01-0006.

The alternative disposal facility will be Sundance Disposal. Permit # NM-01-0003



Drilling Engineer: Tyler Williams

Superintendent: Daniel Gipson

Geologist: Corey Dimond

Well Name: PLU Phantom Banks 32-25-31 State 1H
Target: FBS Shale
County, State: Eddy, NM

Surface Location: 150' FNL 660' FWL, Section 32, Township 25S, Range 31 E
BH Location: 330' FSL 660' FWL, Section 32, Township 25S, Range 31 E

SHL Latitude: 32 093525 SHL North: 398159
SHL Longitude: -103 806847 SHL East: 704377
BHL Latitude: 32 080254 BHL North: 393331
BHL Longitude: -103 806847 BHL East: 704401
Coordinates: NAD 83 Coordinates: NMSPCE

Drilling Rig: Trinidad 110

Directional: Phoenix

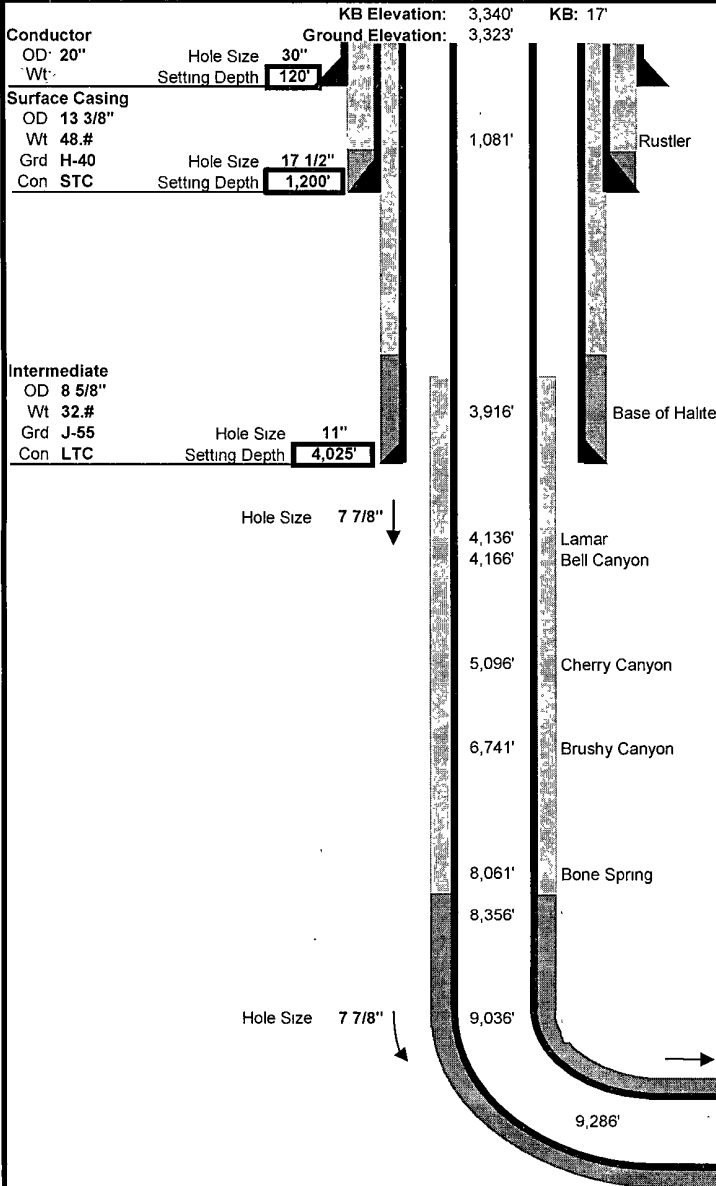
Drilling Mud: Nova

Cement: Schlumberger

Wellhead: Sunbelt

Property Number: 0

AFE Number: 0



Wellhead Equipment	
A Section	13-3/8" x 13-5/8" 5K SOW
B Section	13-5/8" 5K x 11" 5K
C Section	11" 5K X 7-1/16" 10K w/10k gate valve
D Section	N/A
Required BOP Stack	11" 5K- Double, Annular, Rot Head w/orbit valve

Mud				
Depth	Type	Weight	F. Vis	FL
0' - 1,200'	Spud Mud	8.4 - 8.7	32 - 34	NC - NC
1,200' - 4,025'	Brine	9.5 - 10.1	28 - 29	NC - NC
4,025' - 8,851'	FW/Cut Brine	8.3 - 9.5	28 - 29	NC - NC
8,851' - 9,602'	Cut Brine	8.3 - 9	32 - 36	15 - 25
9,602' - 13,952'	FW/Cut Brine	8.3 - 9.5	28 - 29	NC - NC

Cement							
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl	Sx
Surface							
Lead	0'	1,100'	13.7	1.65	250	446	1518
Tail	1,100'	1,200'	14.8	1.33	250	50	213
Intermediate							
Lead	0'	3,525'	12.0	1.99	250	470	1327
Tail	3,525'	4,025'	14.2	1.37	250	82	336
Production							
Lead	4,900'	8,851'	12.4	2.19	100	244	625
Tail	8,851'	13,952'	14.5	1.28	100	316	1386

Production Casing
OD 5 1/2"
Wt 17.8#
Grd P-110
Con LTC

Directional Plan						
Target Line:	9330' @ 0' VS w/90 1 deg inclination					
Target Window:	20' above, 20' below, 50' left, 50' right					
KOP	MD	INC	AZM	TVD	VS	DLS
	8,851'	0.00	0.00	8,851'	0'	0.00
EOB	9,602'	90.10	179.72	9,329'	478'	12.00
TD	13,952'	90.10	179.72	9,321'	4,828'	0.00
Hardlines:	Lateral- 330' from parallel lease lines Vertical- Actual Lease Lines					
Notes:	Please note SHL and BHL distance from lease lines					

Type	Logs	Interval	Vendor
L	OH Triple Combo	Base of Crue to Surf	TBD
O	OH GR/Neutron	Surface Csg to Surface	TBD
G	0 0	0	0
S	LWD MWD Gamma	Curve and Lateral	Phoenix

Project: Poker Lake
Site: PLU Phantom Banks 32-25-31 State 1H
Well: Well #1
Wellbore: Wellbore #1
Design: Design #1-APD
Lat: 32.093524
Long: -103.806847
GL: 3323.00
KB: WELL @ 3323.00ft (Original Well Elev)

PROJECT DETAILS: Poker Lake

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Ground Level

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8851.53	0.00	0.00	8851.53	0.00	0.00	0.00	0.00	0.00	KOP-Build 12°100
9602.36	90.10	179.72	9329.00	-478.29	2.38	12.00	179.72	478.30	EOC-Hold to TD
13952.14	90.10	179.72	9321.40	-4828.01	24.00	0.00	0.00	4828.07	TD at 13952.14

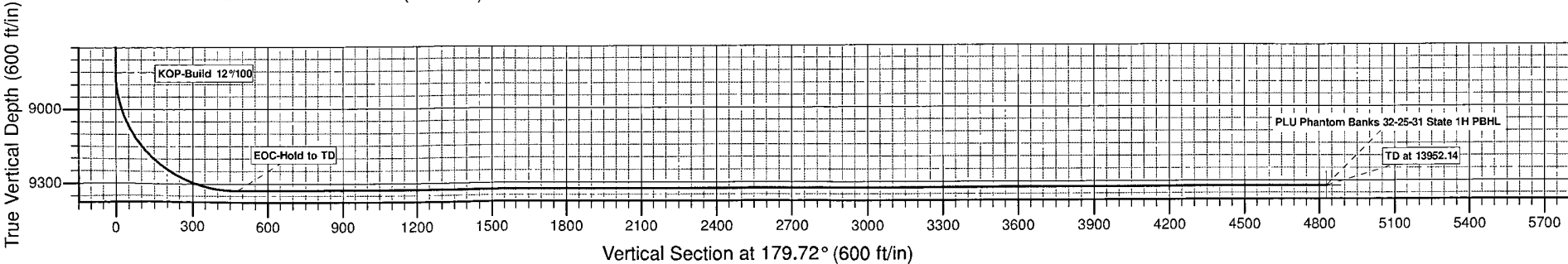
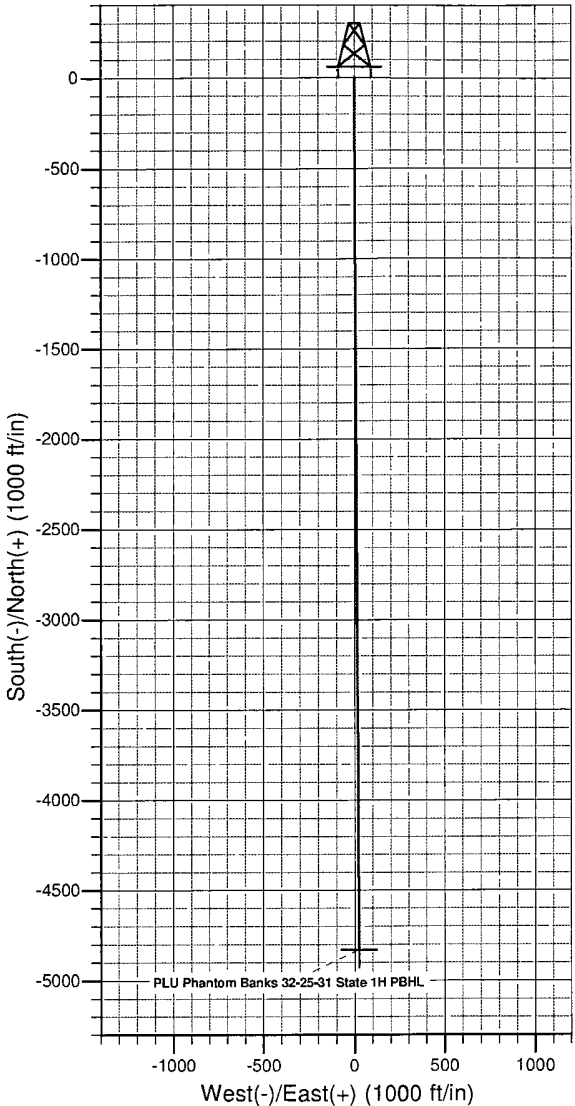
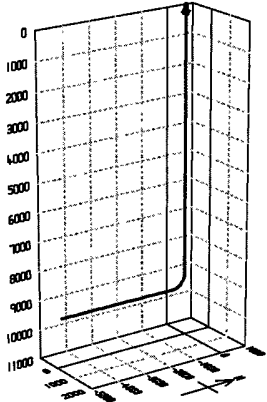
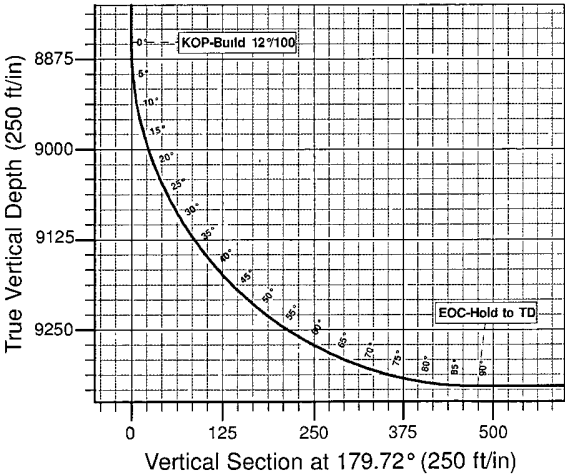
SITE DETAILS: PLU Phantom Banks 32-25-31 State 1H

Site Centre Latitude: 32.093524
Longitude: -103.806847

Positional Uncertainty: 0.00
Convergence: 0.28
Local North: Grid

WELL DETAILS: Well #1					
+N/-S	+E/-W	Northing	Ground Level: Easting	3323.00 Latitude	Longitude
0.00	0.00	398159.00	704377.00	32.093524	-103.806847

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
PBHL	9321.40	-4828.01	24.00	32.080253	-103.806846	



Permian District

Poker Lake

PLU Phantom Banks 32-25-31 State 1H

Well #1

Wellbore #1

Plan: Design #1-APD

Standard Planning Report

18 October, 2012

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Well #1
Company:	Permian District	TVD Reference:	WELL @ 3323.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 3323.00ft (Original Well Elev)
Site:	PLU Phantom Banks 32-25-31 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1-APD		

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 Phantom Banks 32-25-31 State 1H		
Site Position:		Northing:	398,159.00 usft
From:	Map	Easting:	704,377.00 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.093525
		Longitude:	-103.806848
		Grid Convergence:	0 28 °

Well:	Well #1		
Well Position	+N/-S	0 00 ft	Northing:
	+E/-W	0 00 ft	Easting:
Position Uncertainty	0 00 ft	Wellhead Elevation:	Ground Level:
			3,323 00 ft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	10/18/2012	7.51
			Dip Angle
			(°)
			60 02
			Field Strength
			(nT)
			48,397

Design:	Design #1-APD		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 00	0 00	0 00
			Direction
			(°)
			179 72

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0 00	0.00	0.00	0 00	0 00	0 00	0 00	0.00	0.00	
8,851.53	0 00	0 00	8,851.53	0 00	0 00	0.00	0 00	0.00	0.00	
9,602.37	90.10	179.72	9,329.00	-478.29	2.38	12.00	12 00	0.00	179.72	PLU Phantom Banks
13,952.14	90 10	179 72	9,321.40	-4,828.01	24.00	0 00	0.00	0 00	0 00	PLU Phantom Banks

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Well #1
Company:	Permian District	TVD Reference:	WELL @ 3323 00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 3323 00ft (Original Well Elev)
Site:	PLU Phantom Banks 32-25-31 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1-APD		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	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 @ 3323.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 3323.00ft (Original Well Elev)
Site:	PLU Phantom Banks 32-25-31 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1-APD		

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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,851.53	0.00	0.00	8,851.53	0.00	0.00	0.00	0.00	0.00	0.00
KOP-Build 12°/100									
8,900.00	5.82	179.72	8,899.92	-2.46	0.01	2.46	12.00	12.00	0.00
9,000.00	17.82	179.72	8,997.62	-22.90	0.11	22.90	12.00	12.00	0.00
9,100.00	29.82	179.72	9,088.94	-63.20	0.31	63.21	12.00	12.00	0.00
9,200.00	41.82	179.72	9,169.88	-121.62	0.60	121.62	12.00	12.00	0.00
9,300.00	53.82	179.72	9,236.91	-195.58	0.97	195.58	12.00	12.00	0.00
9,400.00	65.82	179.72	9,287.09	-281.86	1.40	281.87	12.00	12.00	0.00
9,500.00	77.82	179.72	9,318.24	-376.69	1.87	376.70	12.00	12.00	0.00
9,600.00	89.82	179.72	9,328.99	-475.93	2.37	475.93	12.00	12.00	0.00
9,602.37	90.10	179.72	9,329.00	-478.29	2.38	478.30	12.00	12.00	0.00
EOC-Hold to TD									
9,700.00	90.10	179.72	9,328.82	-575.93	2.86	575.93	0.00	0.00	0.00
9,800.00	90.10	179.72	9,328.65	-675.93	3.36	675.93	0.00	0.00	0.00
9,900.00	90.10	179.72	9,328.48	-775.92	3.86	775.93	0.00	0.00	0.00
10,000.00	90.10	179.72	9,328.30	-875.92	4.35	875.93	0.00	0.00	0.00
10,100.00	90.10	179.72	9,328.13	-975.92	4.85	975.93	0.00	0.00	0.00
10,200.00	90.10	179.72	9,327.95	-1,075.92	5.35	1,075.93	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 @ 3323.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 3323.00ft (Original Well Elev)
Site:	PLU Phantom Banks 32-25-31 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1-APD		

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)
10,300.00	90.10	179.72	9,327.78	-1,175.92	5.85	1,175.93	0.00	0.00	0.00
10,400.00	90.10	179.72	9,327.60	-1,275.92	6.34	1,275.93	0.00	0.00	0.00
10,500.00	90.10	179.72	9,327.43	-1,375.92	6.84	1,375.93	0.00	0.00	0.00
10,600.00	90.10	179.72	9,327.25	-1,475.91	7.34	1,475.93	0.00	0.00	0.00
10,700.00	90.10	179.72	9,327.08	-1,575.91	7.83	1,575.93	0.00	0.00	0.00
10,800.00	90.10	179.72	9,326.90	-1,675.91	8.33	1,675.93	0.00	0.00	0.00
10,900.00	90.10	179.72	9,326.73	-1,775.91	8.83	1,775.93	0.00	0.00	0.00
11,000.00	90.10	179.72	9,326.56	-1,875.91	9.33	1,875.93	0.00	0.00	0.00
11,100.00	90.10	179.72	9,326.38	-1,975.91	9.82	1,975.93	0.00	0.00	0.00
11,200.00	90.10	179.72	9,326.21	-2,075.91	10.32	2,075.93	0.00	0.00	0.00
11,300.00	90.10	179.72	9,326.03	-2,175.90	10.82	2,175.93	0.00	0.00	0.00
11,400.00	90.10	179.72	9,325.86	-2,275.90	11.31	2,275.93	0.00	0.00	0.00
11,500.00	90.10	179.72	9,325.68	-2,375.90	11.81	2,375.93	0.00	0.00	0.00
11,600.00	90.10	179.72	9,325.51	-2,475.90	12.31	2,475.93	0.00	0.00	0.00
11,700.00	90.10	179.72	9,325.33	-2,575.90	12.80	2,575.93	0.00	0.00	0.00
11,800.00	90.10	179.72	9,325.16	-2,675.90	13.30	2,675.93	0.00	0.00	0.00
11,900.00	90.10	179.72	9,324.99	-2,775.90	13.80	2,775.93	0.00	0.00	0.00
12,000.00	90.10	179.72	9,324.81	-2,875.90	14.30	2,875.93	0.00	0.00	0.00
12,100.00	90.10	179.72	9,324.64	-2,975.89	14.79	2,975.93	0.00	0.00	0.00
12,200.00	90.10	179.72	9,324.46	-3,075.89	15.29	3,075.93	0.00	0.00	0.00
12,300.00	90.10	179.72	9,324.29	-3,175.89	15.79	3,175.93	0.00	0.00	0.00
12,400.00	90.10	179.72	9,324.11	-3,275.89	16.28	3,275.93	0.00	0.00	0.00
12,500.00	90.10	179.72	9,323.94	-3,375.89	16.78	3,375.93	0.00	0.00	0.00
12,600.00	90.10	179.72	9,323.76	-3,475.89	17.28	3,475.93	0.00	0.00	0.00
12,700.00	90.10	179.72	9,323.59	-3,575.89	17.78	3,575.93	0.00	0.00	0.00
12,800.00	90.10	179.72	9,323.41	-3,675.88	18.27	3,675.93	0.00	0.00	0.00
12,900.00	90.10	179.72	9,323.24	-3,775.88	18.77	3,775.93	0.00	0.00	0.00
13,000.00	90.10	179.72	9,323.07	-3,875.88	19.27	3,875.93	0.00	0.00	0.00
13,100.00	90.10	179.72	9,322.89	-3,975.88	19.76	3,975.93	0.00	0.00	0.00
13,200.00	90.10	179.72	9,322.72	-4,075.88	20.26	4,075.93	0.00	0.00	0.00
13,300.00	90.10	179.72	9,322.54	-4,175.88	20.76	4,175.93	0.00	0.00	0.00
13,400.00	90.10	179.72	9,322.37	-4,275.88	21.26	4,275.93	0.00	0.00	0.00
13,500.00	90.10	179.72	9,322.19	-4,375.87	21.75	4,375.93	0.00	0.00	0.00
13,600.00	90.10	179.72	9,322.02	-4,475.87	22.25	4,475.93	0.00	0.00	0.00
13,700.00	90.10	179.72	9,321.84	-4,575.87	22.75	4,575.93	0.00	0.00	0.00
13,800.00	90.10	179.72	9,321.67	-4,675.87	23.24	4,675.93	0.00	0.00	0.00
13,900.00	90.10	179.72	9,321.49	-4,775.87	23.74	4,775.93	0.00	0.00	0.00
13,952.14	90.10	179.72	9,321.40	-4,828.01	24.00	4,828.07	0.00	0.00	0.00
TD at 13952.14 PLU Phantom Banks 32-25-31 State 1H PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU Phantom Banks 32	0.00	0.00	9,321.40	-4,828.01	24.00	393,331.00	704,401.00	32.080253	-103.806846
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Well #1
Company:	Permian District	TVD Reference:	WELL @ 3323.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 3323.00ft (Original Well Elev)
Site:	PLU: Phantom Banks 32-25-31 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1-APD		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,851.53	8,851.53	0.00	0.00	KOP-Build 12"/100
9,602.37	9,329.00	-478.29	2.38	EOC-Hold to TD
13,952.14	9,321.40	-4,828.01	24.00	TD at 13952.14