Submit 1 Copy To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
October 13, 2009

WELL API NO. 30-015-37375

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
PLU PIERCE CANYON 16 STATE

1. Type of Well: Oil Well [X] Gas Well [ ] Other

8. Well Number 1H

2. Name of Operator Chesapeake Operating, Inc.

9. OGRID Number 147179

3. Address of Operator P.O. Box 18496
Oklahoma City, OK 73154

10. Pool name or Wildcat
Wilcat; Bone Spring

4. Well Location
Unit Letter P : 330' feet from the North line and 330' feet from the East line
Section 16 Township 25S Range 30E NMPM County Eddy

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3289' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]	CHANGE PLANS [X]	COMMENCE DRILLING OPNS. [ ]	P AND A [ ]
PULL OR ALTER CASING [ ]	MULTIPLE COMPL [ ]	CASING/CEMENT JOB [ ]	
DOWNHOLE COMMINGLE [ ]			
OTHER: Deepen Surface Casing & Drill pilot hole [X]		OTHER: [ ]	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please find an amended casing program with primary changes to:

Deepen the surface casing to ensure that all fresh water bearing formations are protected. As more data has become avaliable, the top of the Rustler is expected to be encountered at 971'. The surface casing is to be set in the anhydrite section of the Rustler at 1070'.
A pilot hole will be drilled to 9900' with a 300' cement plug set at bottom.
The intermediate casing will be changed from 9 5/8" to 8 5/8". The setting depth will change from 3900' to 3880'.
Both the surface and intermediate casing will have cement circulated to surface as planned, and cement on the production string of casing will be tied back to intermediate as planned.
The production hole will be lengthen at a measured depth from12,786' to 13,142'.
Both the surface hole location, and the projected bottom hole location remains the same as on the orginal application.
An amended C-144(CLEZ) pit pemit is attached as a rig is currently avaliable for this well. An amended directional planning report is attached.

Spud Date: Rig Release Date:

RECEIVED
APR 12 2011
NMOCD ARTESIA

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Bryan Arrant TITLE Sr. Regulatory Compl. Sp. DATE 04/11/2011

Type or print name Bryan Arrant E-mail address: bryan.arrant@chk.com PHONE: (405)935-3782

For State Use Only

APPROVED BY: David Gray TITLE Field Supervisor DATE 4-19-11

Conditions of Approval (if any):

Chesapeake ENERGY

Drilling Engineer:	Chris Gray
Superintendent:	Cecil Luttrull
Geologist:	Mark Oekerman

Well Name:	PLU Pierce Canyon 16 State 1H
County, State:	Eddy County, NM
Surface Location:	330' FSL 330' FEL, Section 16, Township 25S, Range 30E
BH Location:	330' FNL 330' FEL, Section 16, Township 25S, Range 30E

SHL Latitude:	32.123947	SHL North:	409125
SHL Longitude:	-103.878655	SHL East:	682093
BHL Latitude:	32.136767	BHL North:	413789
BHL Longitude:	-103.878656	BHL East:	682073
Coordinates:	NAD 83	Coordinates:	NMSPCE

Drilling Rig:	Patterson 62
Dir. Drilling:	Ryan
Drilling Mud:	Nova
Cement:	Schlumberger
Wellhead:	Sunbelt
Property Number:	623049
AFE Number:	148152

KB Elevation: 3,314'
Ground Elevation: 3,289'

Surface
Bit Size: 17 1/2"

Surface Casing — Depth
13 3/8" 48.# H-40 STC 1,070'

Intermediate
Bit Size: 11"

Intermediate Casing — Depth
8 5/8" 32.# J-55 LTC 3,880'

Vertical Production
Bit Size: 7 7/8"

Pilot Hole
Bit Size: 7 7/8"

Curve
Bit Size: 7 7/8"

Lateral
Bit Size: 7 7/8"

Production Casing
5 1/2" 20.# L-80 LTC
Depth
13,142'

Bottom Plug
Top: 9,600'
Bottom: 9,900'

971'	Rustler
1,115'	Top of Salt
3,664'	Base of Salt
3,864'	Lamar
3,914'	Bell Canyon
4,700'	
4,794'	Cherry Canyon
5,984'	Brushy Canyon
7,684'	Bone Spring
8,613'	First Bonespring Sand
9,446'	Second Bonespring Sand
9,778'	Third Bonespring Carbonate
9,900'	Pilot Hole TD

Whip

Wellhead Equipment	
Casing Head	13-3/8" x 13-5/8" 5K SOW
Casing Spool	13-5/8" 5K x 11" 5K
Tubing Spool	11" 5K x 7-1/16" 10K
Required BOP Stack	
13-5/8" 5K- Double, Annular, Rot Head w/Orbit Valve	

Mud				
Depth	Type	Weight	F. Vis	FL
0' - 1,070'	Spud Mud	8.4-8.7	32-34	NC-NC
1,070' - 3,880'	Brine	9.8-10.1	28-29	NC-NC
3,880' - 8,205'	FW/Cut Brine	8.4-8.6	28-29	NC-NC
8,205' - 9,900'	FW/Cut Brine	8.4-8.9	28-29	NC-NC
8,205' - 8,957'	FW/Cut Brine	8.4-9	28-29	NC-NC
8,957' - 13,142'	FW/Cut Brine	8.4-9	28-32	NC-NC

Cement							
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl	Sx
Surface							
Lead	0'	1,070'	13.5	1.73	150	338	1097
Intermediate							
Lead	0'	2,660'	12.0	1.8	150	271	844
Tail	2,660'	3,880'	14.2	1.37	150	144	588
Production							
1st Stage Lead	4,700'	7,000'	12.0	1.83	75	140	430
1st Stage Tail	7,000'	12,710'	13.2	1.74	75	310	1001
2nd Stage Lead	3,380'	4,450'	12.0	1.8	200	69	214
2nd Stage Tail	4,450'	4,700'	14.8	1.33	200	23	98
Notes:							

Directional Plan						
Target Line:	8684' TVD at 0'VS w/0.2 deg updip					
Target Window:	20' above and 20' below					
	MD	INC	AZM	TVD	VS	DLS
KOP	8,205'	0.00	0.00	8,205'	0'	0.00
EOB	8,957'	90.20	359.75	8,683'	479'	12.00
TD	13,142'	90.20	359.75	8,668'	4,664'	0.00
Hardlines:	Lateral- 330' from all lease lines. Vertical- Actual Lease Lines					
Notes:	Please note SHL and BHL distance from lease lines					

LOGS	Type	Logs	Interval	Timing	Vendor
	Mudlog	Mudlogging	Int Shoe to TD	After set Int Casing	Suttles
	OH	GR/Ind/Neutron/Density/Laterlog/Dipo	Pilot to Int Casing	After Pilot TD	Baker Atlas
	OH	Dual Induction log	7800' to Int Casing	After Pilot TD	Baker Atlas
	OH	60 Sidewall Cores	Pilot	After Pilot TD	Baker Atlas
	LWD	Gamma/MWD	Curve and Lateral	While Drilling	Ryan

Permian District

Poker Lake
PLU Pierce Canyon 16 State 1H
PLU Piece Canyon 16 State 1H

PC16

Plan: Plat

Standard Planning Report

11 April, 2011

Chesapeake Operating

Planning Report

Database:	Drilling Database	**Local Co-ordinate Reference:**	Well PLU Piece Canyon 16 State 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 Pierce Canyon 16 State 1H	**North Reference:**	Grid
Well:	PLU Piece Canyon 16 State 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	PC16		
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 Pierce Canyon 16 State 1H

Site Position:		**Northing:**	409,125.00 usft	**Latitude:**	32.12394722
From:	Map	**Easting:**	682,093.00 usft	**Longitude:**	-103.87865522
Position Uncertainty:	0.0 ft	**Slot Radius:**	0.000 in	**Grid Convergence:**	0.2417992 °

Well PLU Piece Canyon 16 State 1H

Well Position	**+N/-S**	0.0 ft	**Northing:**	409,125.00 usft	**Latitude:**	32.12394722
	+E/-W	0.0 ft	**Easting:**	682,093.00 usft	**Longitude:**	-103.87865522
Position Uncertainty		0.0 ft	**Wellhead Elevation:**		**Ground Level:**	0.0 ft

Wellbore PC16

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/4/2011	7.7319346	60.0674244	48,580

Design Plat

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	359.75

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0000000	
8,205.1	0.00	0.00	8,205.1	0.0	0.0	0.00	0.00	0.00	0.0000000	
8,956.8	90.20	359.75	8,682.6	479.1	-2.1	12.00	12.00	0.00	359.7543078	
13,141.8	90.20	359.75	8,668.0	4,664.0	-20.0	0.00	0.00	0.00	0.0000000	PC16- BHL- Plat

Chesapeake Operating

Planning Report

Database:	Drilling Database	**Local Co-ordinate Reference:**	Well PLU Piece Canyon 16 State 1H
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Project:	Poker Lake	**MD Reference:**	WELL @ 0.0ft (Original Well Elev)
Site:	PLU Pierce Canyon 16 State 1H	**North Reference:**	Grid
Well:	PLU Piece Canyon 16 State 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	PC16		
Design:	Plat		

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

Database:	Drilling Database	**Local Co-ordinate Reference:**	Well PLU Piece Canyon 16 State 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 Pierce Canyon 16 State 1H	**North Reference:**	Grid
Well:	PLU Piece Canyon 16 State 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	PC16		
Design:	Plat		

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
6,800.0	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
8,205.1	0.00	0.00	8,205.1	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	11.38	359.75	8,299.4	9.4	0.0	9.4	12.00	12.00	0.00
8,400.0	23.38	359.75	8,394.6	39.2	-0.2	39.2	12.00	12.00	0.00
8,500.0	35.38	359.75	8,481.6	88.2	-0.4	88.2	12.00	12.00	0.00
8,600.0	47.38	359.75	8,556.5	154.2	-0.7	154.2	12.00	12.00	0.00
8,700.0	59.38	359.75	8,616.0	234.3	-1.0	234.3	12.00	12.00	0.00
8,800.0	71.38	359.75	8,657.6	325.0	-1.4	325.0	12.00	12.00	0.00
8,900.0	83.38	359.75	8,679.4	422.4	-1.8	422.4	12.00	12.00	0.00
8,956.8	90.20	359.75	8,682.6	479.1	-2.1	479.1	12.00	12.00	0.00
9,000.0	90.20	359.75	8,682.5	522.3	-2.2	522.3	0.00	0.00	0.00
9,100.0	90.20	359.75	8,682.1	622.3	-2.7	622.3	0.00	0.00	0.00
9,200.0	90.20	359.75	8,681.8	722.3	-3.1	722.3	0.00	0.00	0.00
9,300.0	90.20	359.75	8,681.4	822.3	-3.5	822.3	0.00	0.00	0.00
9,400.0	90.20	359.75	8,681.1	922.3	-4.0	922.3	0.00	0.00	0.00
9,500.0	90.20	359.75	8,680.7	1,022.3	-4.4	1,022.3	0.00	0.00	0.00
9,600.0	90.20	359.75	8,680.4	1,122.3	-4.8	1,122.3	0.00	0.00	0.00
9,700.0	90.20	359.75	8,680.0	1,222.3	-5.2	1,222.3	0.00	0.00	0.00
9,800.0	90.20	359.75	8,679.7	1,322.3	-5.7	1,322.3	0.00	0.00	0.00
9,900.0	90.20	359.75	8,679.3	1,422.3	-6.1	1,422.3	0.00	0.00	0.00
10,000.0	90.20	359.75	8,679.0	1,522.3	-6.5	1,522.3	0.00	0.00	0.00
10,100.0	90.20	359.75	8,678.6	1,622.3	-7.0	1,622.3	0.00	0.00	0.00
10,200.0	90.20	359.75	8,678.3	1,722.3	-7.4	1,722.3	0.00	0.00	0.00
10,300.0	90.20	359.75	8,677.9	1,822.3	-7.8	1,822.3	0.00	0.00	0.00
10,400.0	90.20	359.75	8,677.6	1,922.3	-8.2	1,922.3	0.00	0.00	0.00
10,500.0	90.20	359.75	8,677.2	2,022.3	-8.7	2,022.3	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	**Local Co-ordinate Reference:**	Well PLU Piece Canyon 16 State 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 Pierce Canyon 16 State 1H	**North Reference:**	Grid
Well:	PLU Piece Canyon 16 State 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	PC16		
Design:	Plat		

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)
10,600.0	90.20	359.75	8,676.9	2,122.3	-9.1	2,122.3	0.00	0.00	0.00
10,700.0	90.20	359.75	8,676.5	2,222.3	-9.5	2,222.3	0.00	0.00	0.00
10,800.0	90.20	359.75	8,676.2	2,322.3	-10.0	2,322.3	0.00	0.00	0.00
10,900.0	90.20	359.75	8,675.8	2,422.3	-10.4	2,422.3	0.00	0.00	0.00
11,000.0	90.20	359.75	8,675.5	2,522.3	-10.8	2,522.3	0.00	0.00	0.00
11,100.0	90.20	359.75	8,675.1	2,622.3	-11.2	2,622.3	0.00	0.00	0.00
11,200.0	90.20	359.75	8,674.8	2,722.3	-11.7	2,722.3	0.00	0.00	0.00
11,300.0	90.20	359.75	8,674.4	2,822.3	-12.1	2,822.3	0.00	0.00	0.00
11,400.0	90.20	359.75	8,674.1	2,922.3	-12.5	2,922.3	0.00	0.00	0.00
11,500.0	90.20	359.75	8,673.7	3,022.3	-13.0	3,022.3	0.00	0.00	0.00
11,600.0	90.20	359.75	8,673.4	3,122.3	-13.4	3,122.3	0.00	0.00	0.00
11,700.0	90.20	359.75	8,673.0	3,222.3	-13.8	3,222.3	0.00	0.00	0.00
11,800.0	90.20	359.75	8,672.7	3,322.3	-14.2	3,322.3	0.00	0.00	0.00
11,900.0	90.20	359.75	8,672.3	3,422.3	-14.7	3,422.3	0.00	0.00	0.00
12,000.0	90.20	359.75	8,672.0	3,522.3	-15.1	3,522.3	0.00	0.00	0.00
12,100.0	90.20	359.75	8,671.6	3,622.3	-15.5	3,622.3	0.00	0.00	0.00
12,200.0	90.20	359.75	8,671.3	3,722.3	-16.0	3,722.3	0.00	0.00	0.00
12,300.0	90.20	359.75	8,670.9	3,822.3	-16.4	3,822.3	0.00	0.00	0.00
12,400.0	90.20	359.75	8,670.6	3,922.3	-16.8	3,922.3	0.00	0.00	0.00
12,500.0	90.20	359.75	8,670.2	4,022.3	-17.2	4,022.3	0.00	0.00	0.00
12,600.0	90.20	359.75	8,669.9	4,122.3	-17.7	4,122.3	0.00	0.00	0.00
12,700.0	90.20	359.75	8,669.5	4,222.3	-18.1	4,222.3	0.00	0.00	0.00
12,800.0	90.20	359.75	8,669.2	4,322.3	-18.5	4,322.3	0.00	0.00	0.00
12,900.0	90.20	359.75	8,668.8	4,422.3	-19.0	4,422.3	0.00	0.00	0.00
13,000.0	90.20	359.75	8,668.5	4,522.3	-19.4	4,522.3	0.00	0.00	0.00
13,100.0	90.20	359.75	8,668.1	4,622.3	-19.8	4,622.3	0.00	0.00	0.00
13,141.8	90.20	359.75	8,668.0	4,664.0	-20.0	4,664.1	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PC16- BHL- Plat - plan hits target center - Point	0.00	0.00	8,668.0	4,664.0	-20.0	413,789.00	682,073.00	32.13676814	-103.87865624
PC16-SHL-Plat - plan misses target center by 199.3ft at 8593.7ft MD (8552.2 TVD, 149.6 N, -0.6 E) - Point	0.00	0.00	8,684.0	0.0	0.0	409,125.00	682,093.00	32.12394722	-103.87865522