

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, 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 Department

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

Form C-102
Revised October 15, 2009

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JUN 18 2010
NMOC D ARTESIA

Submit one copy to appropriate District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37937	Pool Code	Pool Name Wildcat; Bone Spring
Property Code	Property Name PLU PIERCE CANYON "8" STATE	Well Number 1H
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING CO.	Elevation 3235'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	8	25 S	30 E		145	NORTH	400	EAST	EDDY

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
P	8	25 S	30 E		330	SOUTH	400	EAST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

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

Penetration Point & SURFACE LOCATION Lat - N 32.15184274° Long - W 103.8960873° NMSPCE- N 419249.484 E 676657.801 (NAD-83)		PROPOSED BOTTOM HOLE LOCATION Lat - N 32.13851569° Long - W 103.8961498° NMSPCE- N 414401.278 E 676658.103 (NAD-83)		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. Bryan Arrant 5/26/2010 Signature Date Bryan Arrant Printed Name	
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.		DATE SURVEYED MAY 20 2010 Signature & Seal Professional Surveyor W. Gary L. Jones Certificate No. Gary L. Jones 7977 BASIN SURVEYS			

CACTUS

CACTUS DRILLING COMPANY, L.L.C

**RIG 116 SPECIFICATIONS****HOISTING & ROTATING EQUIPMENT****Drawworks**

National 610-ME rated @ 750 hp driven by (1) GE 752 HT DC traction motor rated @ 1130 hp

Auxiliary Brake

Eaton 236WCBD friction brake cooled by NOV BCE-30403281S-19B brake cooling package

Rotary Table

National C-275 (27-1/2") chain-driven by drawworks

Traveling Block

National 540-G-250 (250 ton)

Hook

National G-250 (250 ton), unitized with traveling block

Swivel

National P-300 (300 ton)

Pipe-Handling

Varco ST-80 "Iron Roughneck" powered by Aberdeen Dynamics 18114-2 hydraulic power unit rated @ 60 hp

MAST & SUBSTRUCTURE**Mast Design**

Pyramid Cantilever

Height

146'

Capacity

571k Static Hook Load (10 lines)

Substructure Design

Veristic Technologies Box-on-Box

Floor Height

20'

Clear Height

16'

Capacities

600k Casing / 400k Setback

TRANSPORT**Estimated Loads**

32 (less tubulars)

POWER PACKAGE**Engines**

(3) Cat D398 rated @ 915 hp

Generators

(3) Kato 6P6-2400 rated @ 902 kW / 1288 kVA / 0.7 pf

SCR System

Ross Hill w/ (4) generator bays, (4) SCR bays and (12) sections GE MCC

BOP EQUIPMENT**Annular**

Control Flow 11" 5M GK

Single Ram

None

Double Ram

Control Flow 11" 5M Type DRH

Accumulator

Koomey 6-station / 160 gallon

Choke Manifold

Cameron 4-1/16" 5M

STORAGE CAPACITIES**Drilling Water**

430 bbl

Diesel

10,000 gallons

MUD SYSTEM**Mud Pumps**

(2) National 10-P-130 triplex rated @ 1300 hp, each driven by (1) GE 752 HT DC traction motor rated @ 1130 hp

Charging Pumps

(2) 6x5x14 @ 60 hp / 1200 rpm

Process Pit

(456 bbl) four-compartment w/ (3) 10 hp mud agitators

Suction Pit

(338 bbl) two-compartment w/ (3) 10 hp mud agitators

Trip Tank

(108 bbl) one-compartment w/ (1) 10 hp mud agitator

Trip Tank Pump

4x3x13 @ 30 hp / 1200 rpm

Shale Shakers

(2) NOV DLMS-285P linear-motion

Degasser

Double Life DAD-DP atmospheric

Desander

Sweco 2-cone / 10"

Desander Pump

6x5x14 @ 75 hp / 1200 rpm

Desilter

Sweco 8-cone / 5"

Desilter Pump

6x5x14 @ 75 hp / 1200 rpm

Mud Mixing Pumps

(2) 6x5x14 @ 75 hp / 1200 rpm

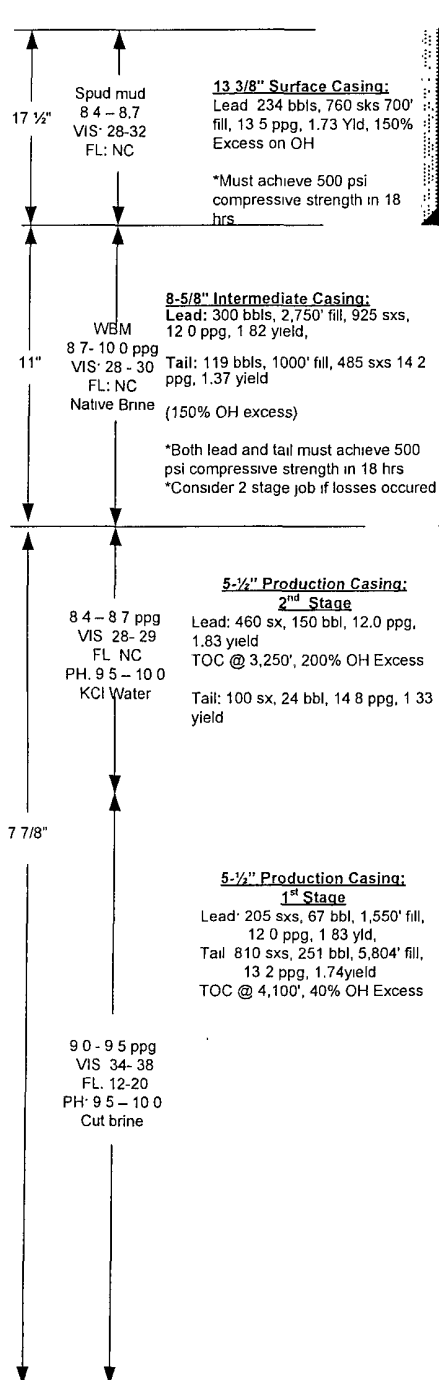
TUBULARS**Drill Pipe**4-1/2" 16.60# G-105
4-1/2" 16.60# S-135**Drill Collars**

As needed for normal drilling operations

Chesapeake Operating Inc

Proposed Drilling Program

Well : PLU Pierce Canyon 8 State 1H
Field : Delaware Basin North
County : Eddy State : NM
Surf Locat : Section 8-25S-30E, 145' FNL & 400' FEL Lat: 32.15184274 Long: -103.8960873 (NAD83)
BH Locat : Section 8-25S-30E, 330' FSL & 400' FEL Lat: 32.13851569 Long: -103.8961498 (NAD83)
KB Elev : 3,257' [Latshaw 6] Grd Elev : 3,235' [Plat]



Wellhead Equipment

Tree Connection	
Backpressure Valve	
Tubing Spool	11\" 5M x 7 1/16\" 10K
Casing Spool	13-5/8\" 5M x 11\" 5M
Bradenhead	13-3/8\" SOW x 13-5/8\" 5M

Logging Program

Company	Log Type	Interval
XX	PILOT HOLE Triple Combo (Dual Induction for resistivity) with Spectral Gamma Ray from TD - Surf Csg Dipole Sonic and Sidewall cores(optional)	
XX	MWD-GR on BHA from KOP to TD	
Mud logging personnel at intermediate casing shoe to TD		

Tubular Detail

	Size	Wt	Grd	Conn.	From	To:
Surface	13-3/8\"	48#	H-40	STC	0'	700'
Inter	8-5/8\"	32#	J-55	LTC	0'	3,750'
Prod	5 1/2\"	20 0#	L-80	LTC	0'	Lateral TD

Lateral Directional Plan

	MD	INC	AZM	TVD	BUR	DLS
KOP	7,723'	0	0	7,723'	0	0
EOB	8,368'	90.3	180	8,132'	14.0	14.0
TD	12,804'	90.3	180	8,109'	0	0

Vendors

Rig	Latshaw 6
Directional	Black Viper
Mud	Alliance
Cement	Schlumberger
Wellhead	Sunbelt
Wireline Logging	XX
Mud Logging	XX

**Mud logging at intermediate casing shoe

8,134' TVD @ 0' VS w/0 30 deg updip Incl. 90.3 deg, Azi. 180.0 deg.
Target Window 20' above and below target line

7-7/8\" lateral Hole

Well TD at 12,804' MD, 8,109' TVD, 4,848' VS.

8,950' Pilot Hole TD

Drawn by	Date	AFE No	Property No	Drilling Engineer	Drilling Superintendent	Geologist
CG	Rev #0: 06/11/10	153048	632392	Yemi Ajijolaiya	Cecil Luttrull	Robert Martin

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Permian District

Poker Lake

PLU Pierce Canyon 8 State 1H

PLU Pierce Canyon 8 State 1H

PLU Pierce Canyon 8 State 1H

Plan: Plat

Standard Planning Report

11 June, 2010

Accepted for record - NMOCD

Chesapeake Energy Corporation

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well PLU Pierce Canyon 8 State 1H
Company:	Permian District	TVD Reference:	Well 2 @ 3257.0ft
Project:	Poker Lake	MD Reference:	Well 2 @ 3257.0ft
Site:	PLU Pierce Canyon 8 State 1H	North Reference:	Grid
Well:	PLU Pierce Canyon 8 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLU Pierce Canyon 8 State 1H		
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 8 State 1H			
Site Position:		Northing:	419,251.35 ft	Latitude: 32° 9' 6.63386400 N
From:	Lat/Long	Easting:	676,656.63 ft	Longitude: 103° 53' 45.91428000 W
Position Uncertainty:	0.0 ft	Slot Radius:	0.000 in	Grid Convergence: 0.23 °

Well	PLU Pierce Canyon 8 State 1H			
Well Position	+N/-S	0.0 ft	Northing: 419,251.35 ft	Latitude: 32° 9' 6.63386400 N
	+E/-W	0.0 ft	Easting: 676,656.63 ft	Longitude: 103° 53' 45.91428000 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	3,235.0 ft	Ground Level: 3,235.0 ft

Wellbore	PLU Pierce Canyon 8 State 1H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/13/2010	7.86	60.11	48,663

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	180.00

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	0.00	
7,722.5	0.00	0.00	7,722.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,367.5	90.30	180.00	8,131.7	-411.4	0.0	14.00	14.00	0.00	180.00	
12,804.4	90.30	180.00	8,108.5	-4,848.2	0.3	0.00	0.00	0.00	0.00	PLU PC8S1H-BHL-PI

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Chesapeake Energy Corporation

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well PLU Pierce Canyon 8 State 1H
Company:	Permian District	TVD Reference:	Well 2 @ 3257.0ft
Project:	Poker Lake	MD Reference:	Well 2 @ 3257.0ft
Site:	PLU Pierce Canyon 8 State 1H	North Reference:	Grid
Well:	PLU Pierce Canyon 8 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLU Pierce Canyon 8 State 1H		
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

Chesapeake Energy Corporation

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well PLU Pierce Canyon 8 State 1H
Company:	Permian District	TVD Reference:	Well 2 @ 3257.0ft
Project:	Poker Lake	MD Reference:	Well 2 @ 3257.0ft
Site:	PLU Pierce Canyon 8 State 1H	North Reference:	Grid
Well:	PLU Pierce Canyon 8 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLU Pierce Canyon 8 State 1H		
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	
7,722.5	0.00	0.00	7,722.5	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	10.85	180.00	7,799.5	-7.3	0.0	7.3	14.00	14.00	0.00	
7,900.0	24.85	180.00	7,894.5	-37.9	0.0	37.9	14.00	14.00	0.00	
8,000.0	38.85	180.00	7,979.2	-90.5	0.0	90.5	14.00	14.00	0.00	
8,100.0	52.85	180.00	8,048.7	-162.1	0.0	162.1	14.00	14.00	0.00	
8,200.0	66.85	180.00	8,098.8	-248.4	0.0	248.4	14.00	14.00	0.00	
8,300.0	80.85	180.00	8,126.5	-344.2	0.0	344.2	14.00	14.00	0.00	
8,367.5	90.30	180.00	8,131.7	-411.4	0.0	411.4	14.00	14.00	0.00	
8,400.0	90.30	180.00	8,131.6	-443.9	0.0	443.9	0.00	0.00	0.00	
8,500.0	90.30	180.00	8,131.0	-543.9	0.0	543.9	0.00	0.00	0.00	
8,600.0	90.30	180.00	8,130.5	-643.9	0.0	643.9	0.00	0.00	0.00	
8,700.0	90.30	180.00	8,130.0	-743.9	0.1	743.9	0.00	0.00	0.00	
8,800.0	90.30	180.00	8,129.5	-843.9	0.1	843.9	0.00	0.00	0.00	
8,900.0	90.30	180.00	8,128.9	-943.9	0.1	943.9	0.00	0.00	0.00	
9,000.0	90.30	180.00	8,128.4	-1,043.9	0.1	1,043.9	0.00	0.00	0.00	
9,100.0	90.30	180.00	8,127.9	-1,143.9	0.1	1,143.9	0.00	0.00	0.00	
9,200.0	90.30	180.00	8,127.4	-1,243.9	0.1	1,243.9	0.00	0.00	0.00	
9,300.0	90.30	180.00	8,126.8	-1,343.9	0.1	1,343.9	0.00	0.00	0.00	
9,400.0	90.30	180.00	8,126.3	-1,443.9	0.1	1,443.9	0.00	0.00	0.00	
9,500.0	90.30	180.00	8,125.8	-1,543.9	0.1	1,543.9	0.00	0.00	0.00	
9,600.0	90.30	180.00	8,125.3	-1,643.9	0.1	1,643.9	0.00	0.00	0.00	
9,700.0	90.30	180.00	8,124.8	-1,743.9	0.1	1,743.9	0.00	0.00	0.00	
9,800.0	90.30	180.00	8,124.2	-1,843.9	0.1	1,843.9	0.00	0.00	0.00	
9,900.0	90.30	180.00	8,123.7	-1,943.9	0.1	1,943.9	0.00	0.00	0.00	
10,000.0	90.30	180.00	8,123.2	-2,043.9	0.1	2,043.9	0.00	0.00	0.00	
10,100.0	90.30	180.00	8,122.7	-2,143.9	0.2	2,143.9	0.00	0.00	0.00	
10,200.0	90.30	180.00	8,122.1	-2,243.9	0.2	2,243.9	0.00	0.00	0.00	
10,300.0	90.30	180.00	8,121.6	-2,343.9	0.2	2,343.9	0.00	0.00	0.00	
10,400.0	90.30	180.00	8,121.1	-2,443.9	0.2	2,443.9	0.00	0.00	0.00	
10,500.0	90.30	180.00	8,120.6	-2,543.9	0.2	2,543.9	0.00	0.00	0.00	

Chesapeake Energy Corporation

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well PLU Pierce Canyon 8 State 1H
Company:	Permian District	TVD Reference:	Well 2 @ 3257.0ft
Project:	Poker Lake	MD Reference:	Well 2 @ 3257.0ft
Site:	PLU Pierce Canyon 8 State 1H	North Reference:	Grid
Well:	PLU Pierce Canyon 8 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PLU Pierce Canyon 8 State 1H		
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	90.30	180.00	8,120.0	-2,643.9	0.2	2,643.9	0.00	0.00	0.00	
10,700.0	90.30	180.00	8,119.5	-2,743.9	0.2	2,743.9	0.00	0.00	0.00	
10,800.0	90.30	180.00	8,119.0	-2,843.9	0.2	2,843.9	0.00	0.00	0.00	
10,900.0	90.30	180.00	8,118.5	-2,943.9	0.2	2,943.9	0.00	0.00	0.00	
11,000.0	90.30	180.00	8,117.9	-3,043.9	0.2	3,043.9	0.00	0.00	0.00	
11,100.0	90.30	180.00	8,117.4	-3,143.9	0.2	3,143.9	0.00	0.00	0.00	
11,200.0	90.30	180.00	8,116.9	-3,243.9	0.2	3,243.9	0.00	0.00	0.00	
11,300.0	90.30	180.00	8,116.4	-3,343.9	0.2	3,343.9	0.00	0.00	0.00	
11,400.0	90.30	180.00	8,115.9	-3,443.9	0.2	3,443.9	0.00	0.00	0.00	
11,500.0	90.30	180.00	8,115.3	-3,543.9	0.2	3,543.9	0.00	0.00	0.00	
11,600.0	90.30	180.00	8,114.8	-3,643.9	0.3	3,643.9	0.00	0.00	0.00	
11,700.0	90.30	180.00	8,114.3	-3,743.9	0.3	3,743.9	0.00	0.00	0.00	
11,800.0	90.30	180.00	8,113.8	-3,843.9	0.3	3,843.9	0.00	0.00	0.00	
11,900.0	90.30	180.00	8,113.2	-3,943.9	0.3	3,943.9	0.00	0.00	0.00	
12,000.0	90.30	180.00	8,112.7	-4,043.9	0.3	4,043.9	0.00	0.00	0.00	
12,100.0	90.30	180.00	8,112.2	-4,143.9	0.3	4,143.9	0.00	0.00	0.00	
12,200.0	90.30	180.00	8,111.7	-4,243.9	0.3	4,243.9	0.00	0.00	0.00	
12,300.0	90.30	180.00	8,111.1	-4,343.9	0.3	4,343.9	0.00	0.00	0.00	
12,400.0	90.30	180.00	8,110.6	-4,443.9	0.3	4,443.9	0.00	0.00	0.00	
12,500.0	90.30	180.00	8,110.1	-4,543.9	0.3	4,543.9	0.00	0.00	0.00	
12,600.0	90.30	180.00	8,109.6	-4,643.9	0.3	4,643.9	0.00	0.00	0.00	
12,700.0	90.30	180.00	8,109.0	-4,743.9	0.3	4,743.9	0.00	0.00	0.00	
12,800.0	90.30	180.00	8,108.5	-4,843.9	0.3	4,843.9	0.00	0.00	0.00	
12,804.4	90.30	180.00	8,108.5	-4,848.2	0.3	4,848.2	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
PLU PC8S1H-BHL-Plat	0.00	0.00	8,108.5	-4,848.2	0.3	414,403.13	676,656.97	32° 8' 18.65648400 N	3° 53' 46.13928000 W	
- hit/miss target										
- Shape										
- Point										
PLU PC8S1H-TL 0VS-F	0.00	0.00	8,134.0	0.0	0.0	419,251.35	676,656.63	32° 9' 6.63386400 N	3° 53' 45.91428000 W	
- plan misses target center by 171.1ft at 8042.9ft MD (8011.2 TVD, -119.2 N, 0.0 E)										
- Point										

Accepted for record - NMOCD

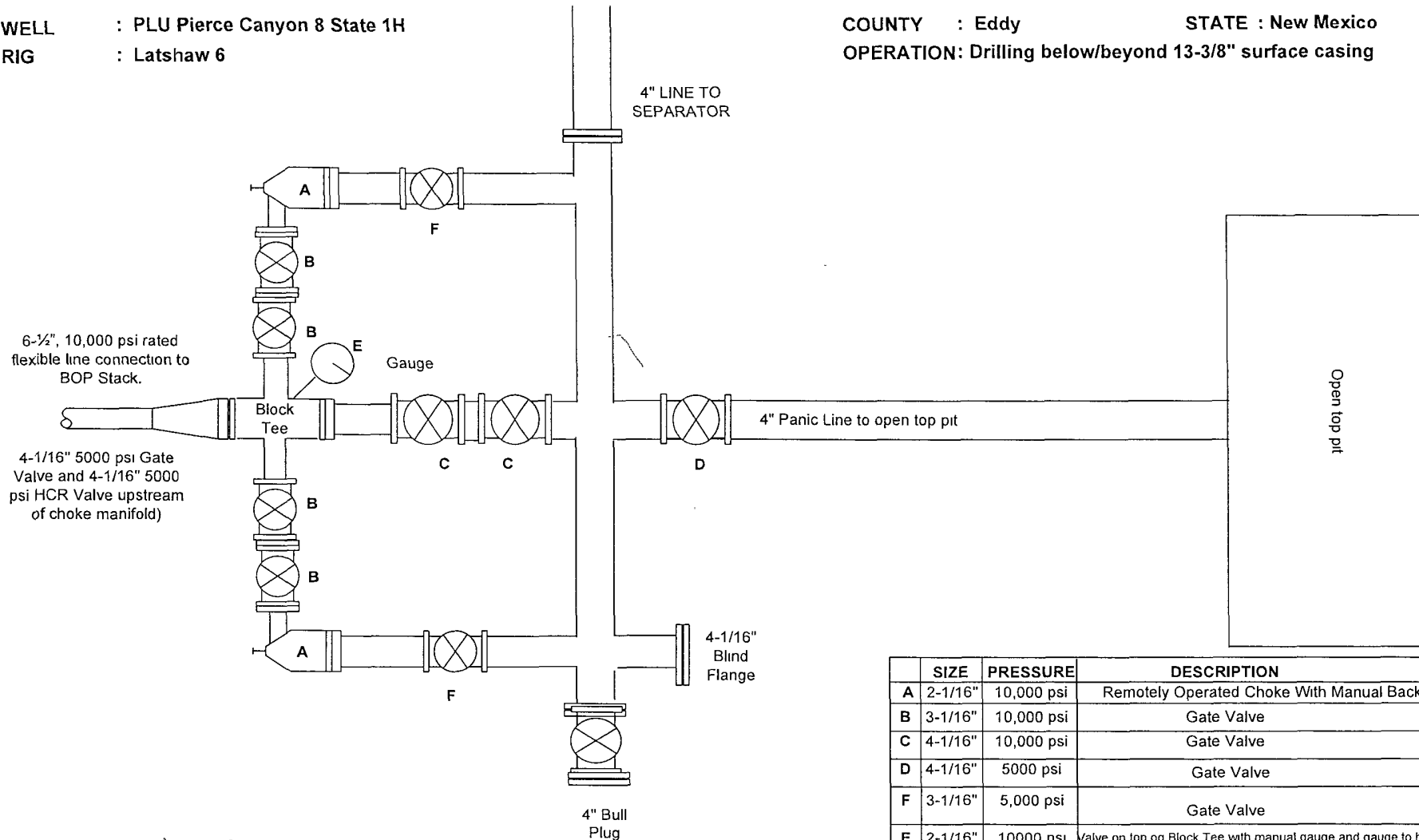
SCHEMATIC OF CHOKE MANIFOLD SHOWING CLOSED LOOP SYSTEM

WELL : PLU Pierce Canyon 8 State 1H
RIG : Latshaw 6

COUNTY : Eddy

STATE : New Mexico

OPERATION: Drilling below/beyond 13-3/8" surface casing



	SIZE	PRESSURE	DESCRIPTION
A	2-1/16"	10,000 psi	Remotely Operated Choke With Manual Backup
B	3-1/16"	10,000 psi	Gate Valve
C	4-1/16"	10,000 psi	Gate Valve
D	4-1/16"	5000 psi	Gate Valve
F	3-1/16"	5,000 psi	Gate Valve
E	2-1/16"	10000 psi	Valve on top og Block Tee with manual gauge and gauge to hydraulic choke

Accepted for record - NMOCD

BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL : PLU Pierce Canyon 8 State 1H

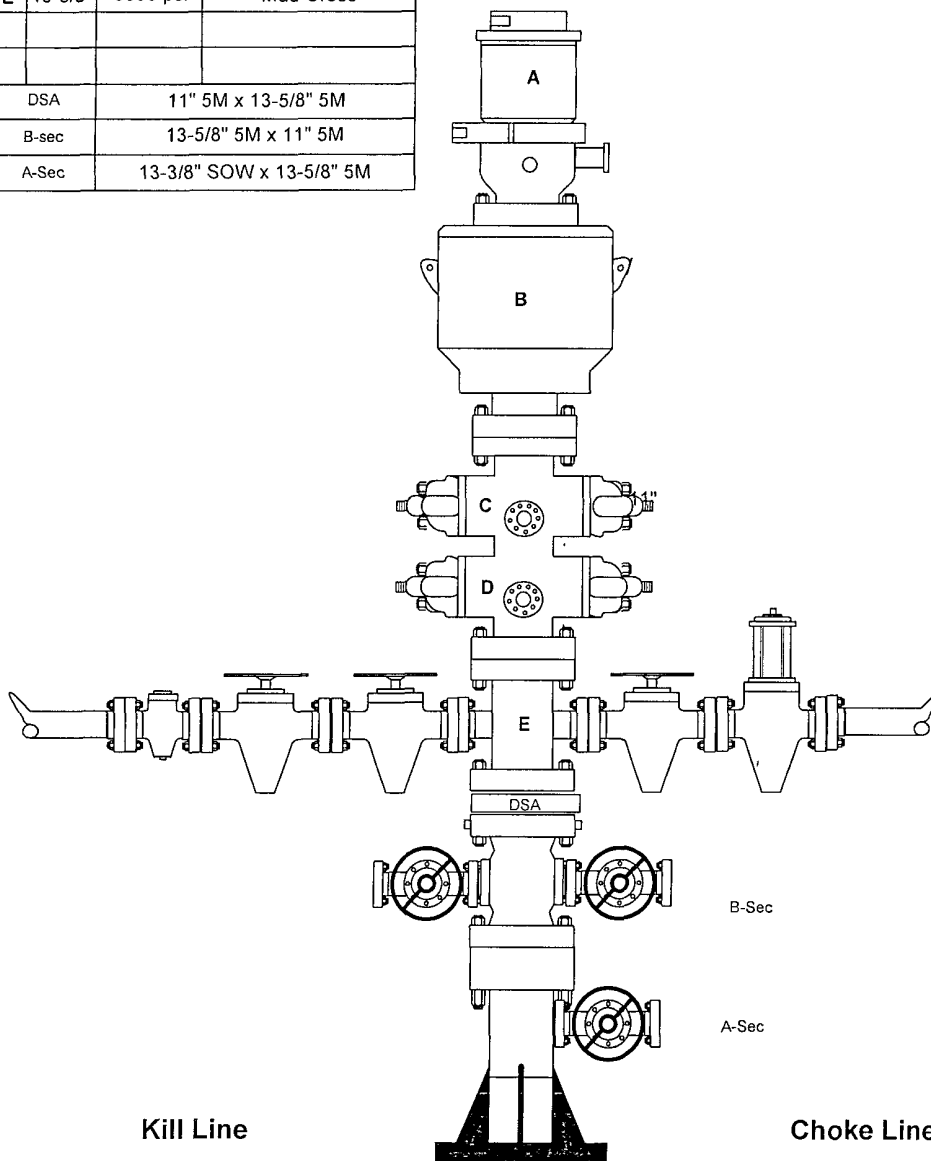
RIG : Latshaw 6

COUNTY : Eddy

STATE: New Mexico

OPERATION: Drill out below 13-3/8" Casing to TD

	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	500 psi	Rot Head
B	13-5/8"	5000 psi	Annular
C	13-5/8"	5000 psi	Pipe Rams
D	13-5/8"	5000 psi	Blind Rams
E	13-5/8"	5000 psi	Mud Cross
DSA	11" 5M x 13-5/8" 5M		
B-sec	13-5/8" 5M x 11" 5M		
A-Sec	13-3/8" SOW x 13-5/8" 5M		



SIZE	PRESSURE	DESCRIPTION
2"	5000 psi	Check Valve
2"	5000 psi	Gate Valve
2"	5000 psi	Gate Valve

SIZE	PRESSURE	DESCRIPTION
4"	5000 psi	Gate Valve
4"	5000 psi	HCR Valve

revised for record - NMOCD