

APPLICATION FOR PERMIT TO DRILL OR REENTER

TP1: NMMN03815501
5. Lease Serial No.
SH:NMMN0000086 / EH:NMMN026395

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		6. If Indian, Allottee or Tribe Name	
1b. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. Unit or CA Agreement Name and No. (H)	
2. Name of Operator XTO Energy Inc. (5380)		8. Lease Name and Well No. (39834) Perla Negra Fed Com #4H	
3a. Address 200 LORLAINE STE. 800 MIDLAND, TX 79701		9. API Well No. 30-025-42577	
3b. Phone No. (include area code) 432-526-6714		10. Field and Pool, or Exploratory Lea; Bone Spring (37570)	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 298 FNL & 485 FEL Sec 25, T19S, R34E (A)		11. Sec., T., R., M., or Blk. and Survey or Area SHL: Section 25, T19S, R34E	
At proposed prod. zone 200 FNL & 400 FEL Sec 24, T19S, R34E (A)		12. County or Parish Lea	
14. Distance in miles and direction from nearest town or post office* 18 Miles West/Southwest of Hobbs, NM		13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) SHL: 298' / BHL: 200'		16. No. of Acres in lease TP1:320, EH:480	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SH: 1220' / EH: 1490'		17. Spacing Unit dedicated to this well 160	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3780' GL		20. BLM/BIA Bond No. on file UTB000138	
22. Approximate date work will start* ASAP		23. Estimated duration 45 Days	

MAY 10 2015
RECEIVED

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature <i>Stephanie Rabadue</i>	Name (Printed/Typed) Stephanie Rabadue	Date 05/28/2014
Title Regulatory Analyst		

Approved by (Signature) /s/ STEPHEN J. CAFFEY	Name (Printed/Typed) STEPHEN J. CAFFEY	Date MAY 13 2015
Title FIELD MANAGER		Office CARLSBAD FIELD OFFICE

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

*(Instructions on page 2)

Capitan Controlled Water Basin

K2
05/19/15
72

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAY 20 2015

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

HOBBS OCD
MAY 19 2015
RECEIVED

XTO Energy Inc.
Perla Negra Federal COM 4H
Projected TD: 16058' MD / 10874' TVD
SHL: 298' FNL & 485' FEL, SECTION 25, T19S, R34E
1st Take Point: 330 FSL & 475 FWL, SECTION 24-T19S-R34E
2nd Take Point: 330 FNL & 402' FWL, SECTION 24-T19S-R34E
BHL: 200' FNL & 400' FEL, SECTION 24, T19S, R34E
Lea County, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

A. Quaternary

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Formation	Well Depth (TVD)	Water / Oil / Gas
Rustler	1789'	Water
Top of Salt	1930'	Water
Base of Salt	3269'	Water
Yates	3479'	Water/Oil/Gas
Brushy Canyon	6659'	Water/Oil/Gas
Bone Spring	8199'	Water/Oil/Gas
1 st Bone Spring	9588'	Water/Oil/Gas
2 nd Bone Spring	10105'	Water/Oil/Gas
3 rd Bone Spring	10716'	Water/Oil/Gas
Target/Land Curve	10924'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 180'.

see COA

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13-3/8" casing @ 1875' above the salt and circulating cement back to surface. The salt will be isolated by setting 9-5/8" casing at 3800' and circulating cement to surface. An 8-3/4" curve and lateral hole will be drilled to MD/TD and 5-1/2" casing with sliding frac sleeves will be set at TD and cemented back up to the 9-5/8" casing shoe.

3. CASING PROGRAM:

see COA

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 1875'	13-3/8"	54.5#	STC	J-55	New	4.01	1.32	5.03
12-1/4"	0' - 3800'	9-5/8"	40#	LTC	J-55	New	2.39	1.28	3.42
8-3/4"	0' - 16058'	5-1/2"	17#	BTC	HCP-110	New	1.12	1.68	2.00

WELLHEAD:

- A. Starting Head: 13-5/8" 3000psi top flange x 13-3/8" SOW bottom
B. 'B' Section/ Drilling Spool: 13-5/8" 3000psi bottom flange x 11" 5M top flange
C. Tubing Head: 11" 5000psi bottom flange x 7-1/16" 10,000psi top flange

— see COA

4. CEMENT PROGRAM:

- A. **Surface Casing:** 13-3/8", 54.5#, NEW J-55, STC casing to be set at ± 1875'.

Lead: 20 bbls FW, then 1225 sx ExtendaCem-CZ (mixed at 13.7 ppg, 1.68 ft³/sk, 8.72 gal/sx wtr). Compr Strengths 12 hr – 470 psi 24 hr – 1055 psi

Tail: 440 sx HalCem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sk, 6.39 gal/sx wtr)
Compr Strengths: 12 hr – 900 psi 24 hr – 1500 psi

***All volumes 100% excess in open hole. Cement to surface.

- B. **Intermediate Casing:** 9-5/8", 40#, NEW J-55, LTC casing to be set at ± 3800'.

Lead: 20 bbls FW, then 870 sx EconoCem-HLC + 5% salt + 5 lbm/sk Kol-Seal (mixed at 12.9 ppg, 1.88 ft³/sk, 9.61 gal/sx wtr) Compr Strengths 12 hr – 320 psi 24 hr – 623 psi

Tail: 250 sx HalCem-C (mixed at 14.8 ppg, 1.33 ft³/sk, 6.34 gal/sx wtr)
Compr Strengths: 12 hr – 900 psi 24 hr – 1500 psi

***All volumes 100% excess in open hole. Cement to surface.

- C. **Production Casing:** 5-1/2", 17#, NEW HCP-110, BTC casing to be set at ± 16058'. Casing will be cemented and will include sliding sleeves for the completion.

Lead: 20 bbls FW, then 760 sx Tuned Light + 0.5 lbm/sk CFR-3 + 1.5 lbm/sk salt + 0.1% HR601 (mixed at 10.5 ppg, 2.66 ft³/sk, 12.01 gal/sx wtr) Compr Strengths 12 hr – 126 psi 16 hr – 500 psi 48 hr – 1106 psi

Tail: 1355 sx VersaCem PBHS2 + 0.5% LAP-2 + 0.25 lbm/sk D-air 5000 + 0.2% HR 601 (mixed at 13.2 ppg, 1.59 ft³/sk, 8.29 gal/sx wtr) Compr Strengths: 12 hr – 1375 psi 24 hr – 2285 psi

***All volumes 30% excess in open hole. Planned top of cement 500' into intermediate casing shoe

5. PRESSURE CONTROL EQUIPMENT: — see COA

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. Max bottom hole pressure should not exceed 5000 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 3M bradenhead and flange, the BOP test will be limited to 3000psi. When nipping up on the 9-5/8", the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagram is attached.

Exhibit E-1

6. PROPOSED MUD CIRCULATION SYSTEM:

see
COA

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 1875'	17-1/2"	FW/Native	8.5-8.8	35-40	NC
1875' to 3800'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3800' to 16058'	8-3/4"	FW / Cut Brine / Poly-Sweeps	8.6-8.8	29-32	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13-3/8" casing.

8. LOGGING, CORING AND TESTING PROGRAM:

- see
COA

Mud Logger: Mud Logging Unit (2 man) on @ 3800'.
 Catch 20' samples from 3800' to landing point
 Catch 30' samples from landing point to TD/MD.
 Send 1 set of dry samples to Midland Sample Library.

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

9. ABNORMAL PRESSURES AND TEMPERATURES / POTENTIAL HAZARDS:

see
COA

None anticipated. BHT of 160 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 40 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

11. SPECIAL INSTRUCTIONS:

- A. Reports should be filled out on the XTO Drilling Report form, and the Casing/Cementing Detail Forms provided.
- B. WOC a minimum of 24 hours before drilling out shoe joint on surface and intermediate casing strings. Use minimal WOB and RPM until drill collars are below the shoe joints.
- C. Function test BOP blind rams each trip and pipe rams each day. Strap out of hole for logging and/or casing jobs.
- D. A trash trailer will be provided on each location. Keep trash picked up and the location as clean as possible. All drilling line, oil filters, etc. should be hauled away at the Drilling Contractor's expense. At the conclusion of drilling operations, the contents of the trash trailer will be disposed of into a commercial sanitary landfill.
- E. The reserve pits should be lined with a plastic liner in order to contain the drill cuttings and drilling fluids. At the conclusion of the drilling operations, all re-usable drilling fluid should be moved to the next well in the drilling order.



XTO Energy Inc.

HALLIBURTON

Sperry Drilling

Project: Lea County, NM (NAD27)
 Site: Perla Negra Federal Com
 Well: Perla Negra Federal Com 4H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Pioneer 33

SURFACE LOCATION

US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation: GL 3780' + KB 17' @ 3797.00usft (Pioneer 33)
 Northing Easting Latitude Longitude
 596680.40 754599.70 32° 38' 15.549 N 103° 30' 22.562 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

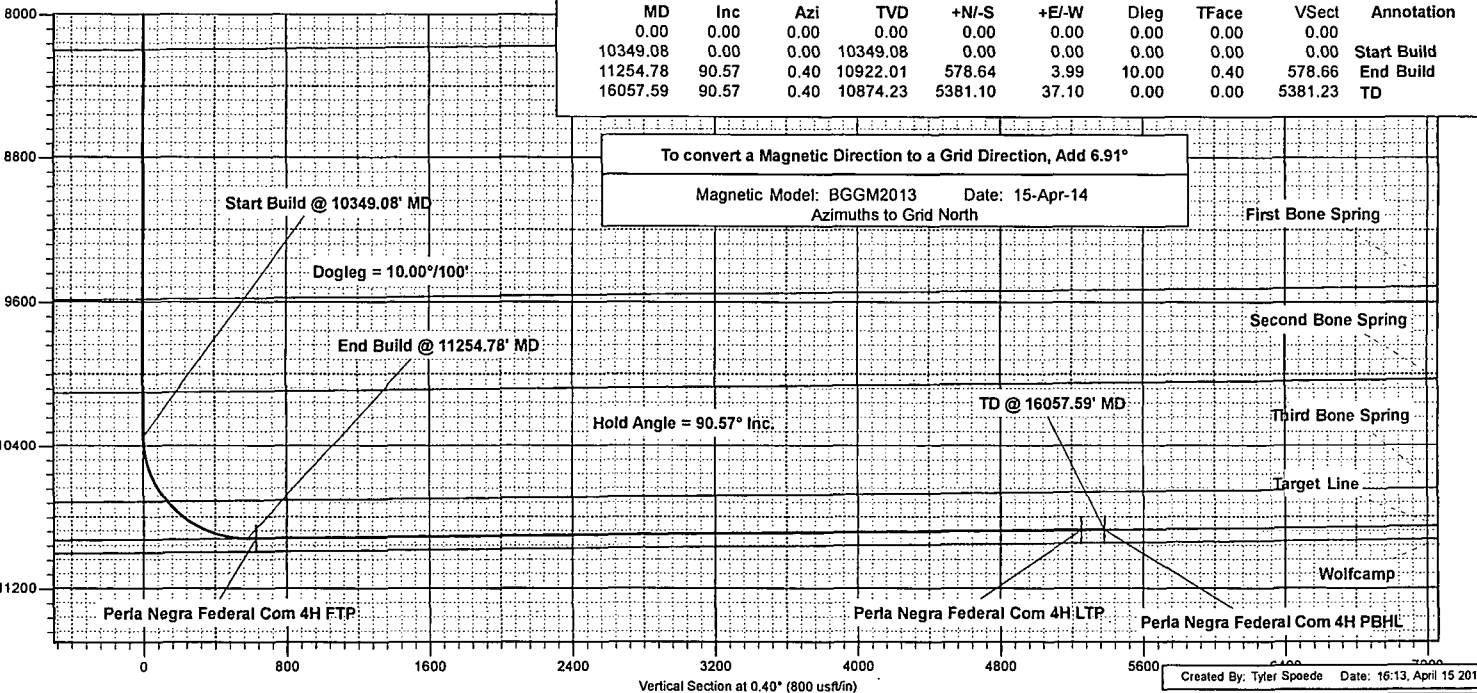
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Perla Negra Federal Com 4H PBHL	10874.23	5381.10	37.10	602061.50	754636.80	32° 39' 8.791 N	103° 30' 21.638 W
Perla Negra Federal Com 4H LTP	10875.53	5251.10	36.20	601931.50	754635.90	32° 39' 7.504 N	103° 30' 21.660 W
Perla Negra Federal Com 4H FTP	10921.52	628.00	4.30	597308.40	754604.00	32° 38' 21.763 N	103° 30' 22.454 W

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	
10349.08	0.00	0.00	10349.08	0.00	0.00	0.00	0.00	0.00	Start Build
11254.78	90.57	0.40	10922.01	578.64	3.99	10.00	0.40	578.66	End Build
16057.59	90.57	0.40	10874.23	5381.10	37.10	0.00	0.00	5381.23	TD

To convert a Magnetic Direction to a Grid Direction, Add 6.91°

Magnetic Model: BGGM2013 Date: 15-Apr-14
 Azimuths to Grid North



Created By: Tyler Speede Date: 16:13, April 15 2014

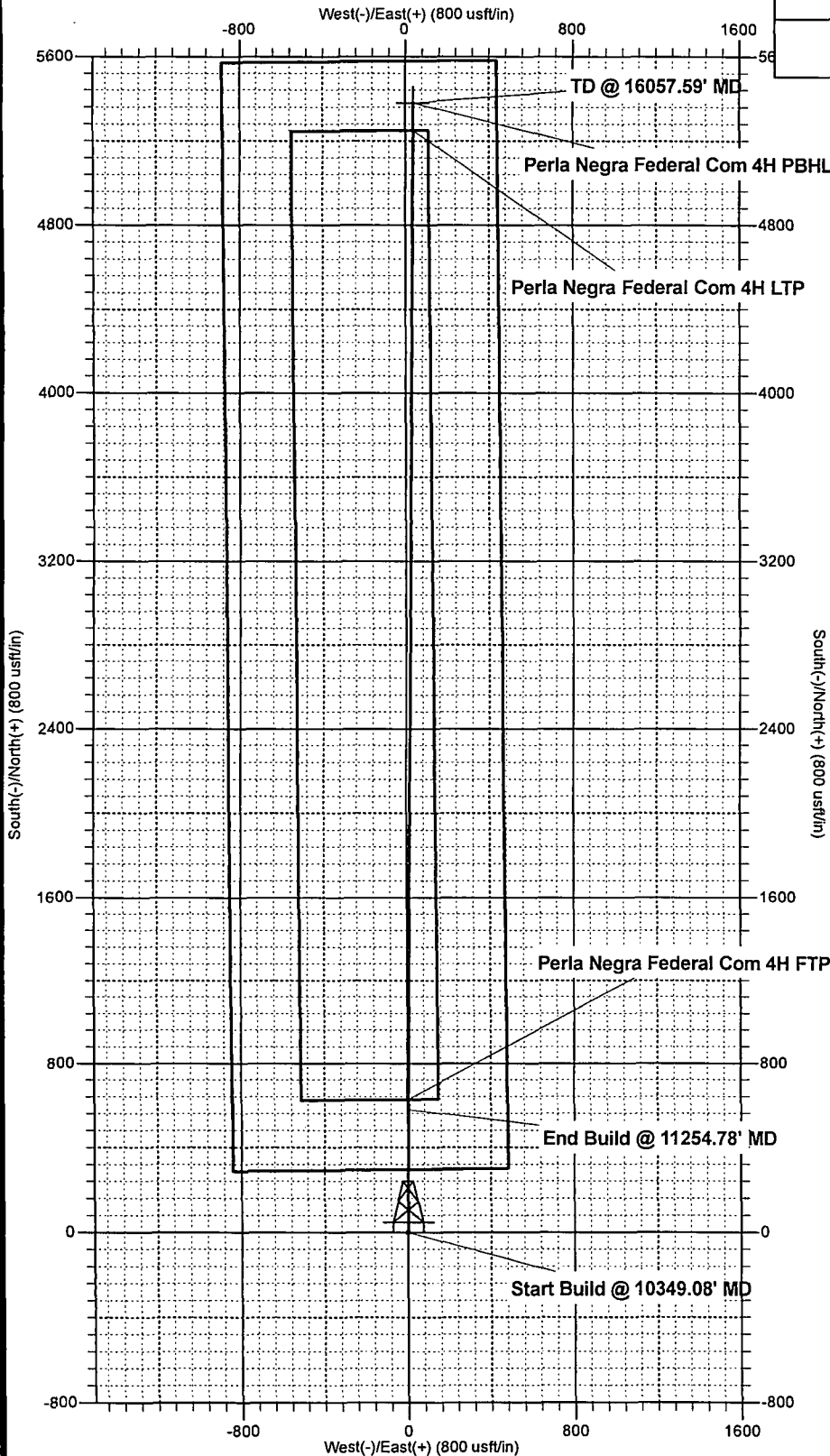
Project: Lea County, NM (NAD27)
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US State Plane 1927 (Exact solution)
 New Mexico East 3001
 Elevation: GL 3780' + KB 17' @ 3797.00usft (Pioneer 33)
 Northing 596680.40 Easting 754599.70 Latitude 32° 38' 15.549 N Longitude 103° 30' 22.562 W

To convert a Magnetic Direction to a Grid Direction, Add 6.91°

Magnetic Model: BGGM2013 Date: 15-Apr-14
 Azimuths to Grid North



XTO Energy Inc.

**Lea County, NM (NAD27)
Perla Negra Federal Com
Perla Negra Federal Com 4H**

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

15 April, 2014

Well Coordinates: 596,680.40 N, 754,599.70 E (32° 38' 15.55" N, 103° 30' 22.56" W)

Ground Level: 3,780.00 usft

Local Coordinate Origin:	Centered on Well Perla Negra Federal Com 4H
Viewing Datum:	GL 3780' + KB 17' @ 3797.00usft (Pioneer 33)
TVDs to System:	N.
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 5000.1 Build: 65

HALLIBURTON

Plan Report for Perla Negra Federal Com 4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
0.00	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	0.00
200.00	0.00	0.00	200.00	0.00	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	0.00
400.00	0.00	0.00	400.00	0.00	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	0.00
600.00	0.00	0.00	600.00	0.00	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	0.00
800.00	0.00	0.00	800.00	0.00	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	0.00
1,000.00	0.00	0.00	1,000.00	0.00	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	0.00
1,200.00	0.00	0.00	1,200.00	0.00	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	0.00
1,400.00	0.00	0.00	1,400.00	0.00	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	0.00
1,600.00	0.00	0.00	1,600.00	0.00	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	0.00
1,800.00	0.00	0.00	1,800.00	0.00	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	0.00
2,000.00	0.00	0.00	2,000.00	0.00	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	0.00
2,200.00	0.00	0.00	2,200.00	0.00	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	0.00
2,400.00	0.00	0.00	2,400.00	0.00	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	0.00
2,600.00	0.00	0.00	2,600.00	0.00	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	0.00
2,800.00	0.00	0.00	2,800.00	0.00	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	0.00
3,000.00	0.00	0.00	3,000.00	0.00	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	0.00
3,200.00	0.00	0.00	3,200.00	0.00	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	0.00
3,400.00	0.00	0.00	3,400.00	0.00	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	0.00
3,600.00	0.00	0.00	3,600.00	0.00	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	0.00
3,800.00	0.00	0.00	3,800.00	0.00	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	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,037.00	0.00	0.00	4,037.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers										
4,100.00	0.00	0.00	4,100.00	0.00	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	0.00
4,300.00	0.00	0.00	4,300.00	0.00	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	0.00
4,500.00	0.00	0.00	4,500.00	0.00	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	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,737.00	0.00	0.00	4,737.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen										
4,800.00	0.00	0.00	4,800.00	0.00	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	0.00
5,000.00	0.00	0.00	5,000.00	0.00	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	0.00
5,200.00	0.00	0.00	5,200.00	0.00	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	0.00

HALLIBURTON**Plan Report for Perla Negra Federal Com 4H - Plan #1**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
5,400.00	0.00	0.00	5,400.00	0.00	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	0.00
5,600.00	0.00	0.00	5,600.00	0.00	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	0.00
5,800.00	0.00	0.00	5,800.00	0.00	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	0.00
6,000.00	0.00	0.00	6,000.00	0.00	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	0.00
6,200.00	0.00	0.00	6,200.00	0.00	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	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,405.00	0.00	0.00	6,405.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware										
6,500.00	0.00	0.00	6,500.00	0.00	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	0.00
6,657.00	0.00	0.00	6,657.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon										
6,700.00	0.00	0.00	6,700.00	0.00	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	0.00
6,900.00	0.00	0.00	6,900.00	0.00	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	0.00
7,100.00	0.00	0.00	7,100.00	0.00	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	0.00
7,300.00	0.00	0.00	7,300.00	0.00	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	0.00
7,500.00	0.00	0.00	7,500.00	0.00	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	0.00
7,700.00	0.00	0.00	7,700.00	0.00	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	0.00
7,900.00	0.00	0.00	7,900.00	0.00	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	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,197.00	0.00	0.00	8,197.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring										
8,200.00	0.00	0.00	8,200.00	0.00	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	0.00
8,400.00	0.00	0.00	8,400.00	0.00	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	0.00
8,600.00	0.00	0.00	8,600.00	0.00	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	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,586.00	0.00	0.00	9,586.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
First Bone Spring										
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,103.00	0.00	0.00	10,103.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Second Bone Spring										
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON

Plan Report for Perla Negra Federal Com 4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,349.08	0.00	0.00	10,349.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build @ 10349.08' MD - Dogleg = 10.00°/100'										
10,400.00	5.09	0.40	10,399.93	2.26	0.02	2.26	10.00	10.00	0.00	0.40
10,450.00	10.09	0.40	10,449.48	8.86	0.06	8.86	10.00	10.00	0.00	0.00
10,500.00	15.09	0.40	10,498.26	19.76	0.14	19.76	10.00	10.00	0.00	0.00
10,550.00	20.09	0.40	10,545.91	34.87	0.24	34.87	10.00	10.00	0.00	0.00
10,600.00	25.09	0.40	10,592.06	54.07	0.37	54.07	10.00	10.00	0.00	0.00
10,650.00	30.09	0.40	10,636.36	77.22	0.53	77.22	10.00	10.00	0.00	0.00
10,700.00	35.09	0.40	10,678.47	104.14	0.72	104.14	10.00	10.00	0.00	0.00
10,743.02	39.39	0.40	10,712.70	130.17	0.90	130.17	10.00	10.00	0.00	0.00
Third Bone Spring										
10,750.00	40.09	0.40	10,718.08	134.63	0.93	134.64	10.00	10.00	0.00	0.00
10,800.00	45.09	0.40	10,754.87	168.46	1.16	168.46	10.00	10.00	0.00	0.00
10,850.00	50.09	0.40	10,788.58	205.36	1.42	205.37	10.00	10.00	0.00	0.00
10,900.00	55.09	0.40	10,818.95	245.07	1.69	245.07	10.00	10.00	0.00	0.00
10,950.00	60.09	0.40	10,845.74	287.27	1.98	287.27	10.00	10.00	0.00	0.00
11,000.00	65.09	0.40	10,868.75	331.64	2.29	331.65	10.00	10.00	0.00	0.00
11,050.00	70.09	0.40	10,887.80	377.85	2.61	377.86	10.00	10.00	0.00	0.00
11,100.00	75.09	0.40	10,902.76	425.54	2.93	425.55	10.00	10.00	0.00	0.00
11,150.00	80.09	0.40	10,913.50	474.36	3.27	474.37	10.00	10.00	0.00	0.00
11,200.00	85.09	0.40	10,919.94	523.92	3.61	523.93	10.00	10.00	0.00	0.00
11,254.27	90.52	0.40	10,922.02	578.13	3.99	578.15	10.00	10.00	0.00	0.00
Target Line										
11,254.78	90.57	0.40	10,922.01	578.64	3.99	578.66	10.00	10.00	0.00	0.00
End Build @ 11254.78' MD - Hold Angle = 90.57° Inc.										
11,300.00	90.57	0.40	10,921.56	623.86	4.30	623.87	0.00	0.00	0.00	0.00
11,304.14	90.57	0.40	10,921.52	628.00	4.33	628.01	0.00	0.00	0.00	0.00
Perla Negra Federal Com 4H FTP										
11,400.00	90.57	0.40	10,920.57	723.85	4.99	723.87	0.00	0.00	0.00	0.00
11,500.00	90.57	0.40	10,919.57	823.84	5.68	823.86	0.00	0.00	0.00	0.00
11,600.00	90.57	0.40	10,918.58	923.83	6.37	923.86	0.00	0.00	0.00	0.00
11,700.00	90.57	0.40	10,917.58	1,023.83	7.06	1,023.85	0.00	0.00	0.00	0.00
11,800.00	90.57	0.40	10,916.59	1,123.82	7.75	1,123.85	0.00	0.00	0.00	0.00
11,900.00	90.57	0.40	10,915.59	1,223.81	8.44	1,223.84	0.00	0.00	0.00	0.00
12,000.00	90.57	0.40	10,914.60	1,323.81	9.13	1,323.84	0.00	0.00	0.00	0.00
12,100.00	90.57	0.40	10,913.60	1,423.80	9.82	1,423.83	0.00	0.00	0.00	0.00
12,200.00	90.57	0.40	10,912.61	1,523.79	10.51	1,523.83	0.00	0.00	0.00	0.00
12,300.00	90.57	0.40	10,911.62	1,623.78	11.20	1,623.82	0.00	0.00	0.00	0.00
12,400.00	90.57	0.40	10,910.62	1,723.78	11.88	1,723.82	0.00	0.00	0.00	0.00
12,500.00	90.57	0.40	10,909.63	1,823.77	12.57	1,823.81	0.00	0.00	0.00	0.00
12,600.00	90.57	0.40	10,908.63	1,923.76	13.26	1,923.81	0.00	0.00	0.00	0.00
12,700.00	90.57	0.40	10,907.64	2,023.75	13.95	2,023.80	0.00	0.00	0.00	0.00
12,800.00	90.57	0.40	10,906.64	2,123.75	14.64	2,123.80	0.00	0.00	0.00	0.00
12,900.00	90.57	0.40	10,905.65	2,223.74	15.33	2,223.79	0.00	0.00	0.00	0.00
13,000.00	90.57	0.40	10,904.65	2,323.73	16.02	2,323.79	0.00	0.00	0.00	0.00
13,100.00	90.57	0.40	10,903.66	2,423.72	16.71	2,423.78	0.00	0.00	0.00	0.00
13,200.00	90.57	0.40	10,902.66	2,523.72	17.40	2,523.78	0.00	0.00	0.00	0.00
13,300.00	90.57	0.40	10,901.67	2,623.71	18.09	2,623.77	0.00	0.00	0.00	0.00
13,400.00	90.57	0.40	10,900.67	2,723.70	18.78	2,723.77	0.00	0.00	0.00	0.00
13,500.00	90.57	0.40	10,899.68	2,823.70	19.47	2,823.76	0.00	0.00	0.00	0.00
13,600.00	90.57	0.40	10,898.68	2,923.69	20.16	2,923.76	0.00	0.00	0.00	0.00
13,700.00	90.57	0.40	10,897.69	3,023.68	20.85	3,023.75	0.00	0.00	0.00	0.00
13,800.00	90.57	0.40	10,896.69	3,123.67	21.54	3,123.75	0.00	0.00	0.00	0.00
13,900.00	90.57	0.40	10,895.70	3,223.67	22.23	3,223.74	0.00	0.00	0.00	0.00
14,000.00	90.57	0.40	10,894.70	3,323.66	22.91	3,323.74	0.00	0.00	0.00	0.00
14,100.00	90.57	0.40	10,893.71	3,423.65	23.60	3,423.73	0.00	0.00	0.00	0.00
14,200.00	90.57	0.40	10,892.71	3,523.64	24.29	3,523.73	0.00	0.00	0.00	0.00
14,300.00	90.57	0.40	10,891.72	3,623.64	24.98	3,623.72	0.00	0.00	0.00	0.00

Plan Report for Perla Negra Federal Com 4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Toolface Azimuth (°)
14,400.00	90.57	0.40	10,890.72	3,723.63	25.67	3,723.72	0.00	0.00	0.00	0.00
14,500.00	90.57	0.40	10,889.73	3,823.62	26.36	3,823.71	0.00	0.00	0.00	0.00
14,600.00	90.57	0.40	10,888.73	3,923.62	27.05	3,923.71	0.00	0.00	0.00	0.00
14,700.00	90.57	0.40	10,887.74	4,023.61	27.74	4,023.70	0.00	0.00	0.00	0.00
14,800.00	90.57	0.40	10,886.74	4,123.60	28.43	4,123.70	0.00	0.00	0.00	0.00
14,900.00	90.57	0.40	10,885.75	4,223.59	29.12	4,223.69	0.00	0.00	0.00	0.00
15,000.00	90.57	0.40	10,884.76	4,323.59	29.81	4,323.69	0.00	0.00	0.00	0.00
15,100.00	90.57	0.40	10,883.76	4,423.58	30.50	4,423.68	0.00	0.00	0.00	0.00
15,200.00	90.57	0.40	10,882.77	4,523.57	31.19	4,523.68	0.00	0.00	0.00	0.00
15,300.00	90.57	0.40	10,881.77	4,623.56	31.88	4,623.67	0.00	0.00	0.00	0.00
15,400.00	90.57	0.40	10,880.78	4,723.56	32.57	4,723.67	0.00	0.00	0.00	0.00
15,500.00	90.57	0.40	10,879.78	4,823.55	33.26	4,823.66	0.00	0.00	0.00	0.00
15,600.00	90.57	0.40	10,878.79	4,923.54	33.95	4,923.66	0.00	0.00	0.00	0.00
15,700.00	90.57	0.40	10,877.79	5,023.53	34.63	5,023.65	0.00	0.00	0.00	0.00
15,800.00	90.57	0.40	10,876.80	5,123.53	35.32	5,123.65	0.00	0.00	0.00	0.00
15,900.00	90.57	0.40	10,875.80	5,223.52	36.01	5,223.64	0.00	0.00	0.00	0.00
15,927.58	90.57	0.40	10,875.53	5,251.10	36.20	5,251.22	0.00	0.00	0.00	0.00
Perla Negra Federal Com 4H LTP										
16,000.00	90.57	0.40	10,874.81	5,323.51	36.70	5,323.64	0.00	0.00	0.00	0.00
16,057.59	90.57	0.40	10,874.23	5,381.10	37.10	5,381.23	0.00	0.00	0.00	0.00
TD @ 16057.59' MD - Perla Negra Federal Com 4H PBHL										

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
10,349.08	10,349.08	0.00	0.00	Start Build @ 10349.08' MD
10,349.08	10,349.08	0.00	0.00	Dogleg = 10.00°/100'
11,254.78	10,922.01	578.64	3.99	End Build @ 11254.78' MD
11,254.78	10,922.01	578.64	3.99	Hold Angle = 90.57° Inc.
16,057.59	10,874.23	5,381.10	37.10	TD @ 16057.59' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (usft)	+E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	0.40	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	16,057.59	Plan #1	MWD+SC

HALLIBURTON**Plan Report for Perla Negra Federal Com 4H - Plan #1****Formation Details**

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,037.00	4,037.00	Seven Rivers		-0.57	0.40
4,737.00	4,737.00	Queen		-0.57	0.40
6,405.00	6,405.00	Delaware		-0.57	0.40
6,657.00	6,657.00	Brushy Canyon		-0.57	0.40
8,197.00	8,197.00	Bone Spring		-0.57	0.40
9,586.00	9,586.00	First Bone Spring		-0.57	0.40
10,103.00	10,103.00	Second Bone Spring		-0.57	0.40
10,743.02	10,714.00	Third Bone Spring		-0.57	0.40
11,254.27	10,927.77	Target Line		-0.57	0.40

Targets associated with this wellbore

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
Perla Negra Federal Com 4H LTP	10,875.53	5,251.10	36.20	Point
Perla Negra Federal Com 4H FTP	10,921.52	628.00	4.30	Point
Perla Negra Federal Com 4H PBHL	10,874.23	5,381.10	37.10	Point

**North Reference Sheet for Perla Negra Federal Com - Perla Negra Federal Com 4H
- Wellbore #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL 3780' + KB 17' @ 3797.00usft (Pioneer 33). Northing and Easting are relative to Perla Negra Federal Com 4H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99998332

Grid Coordinates of Well: 596,680.40 usft N, 754,599.70 usft E

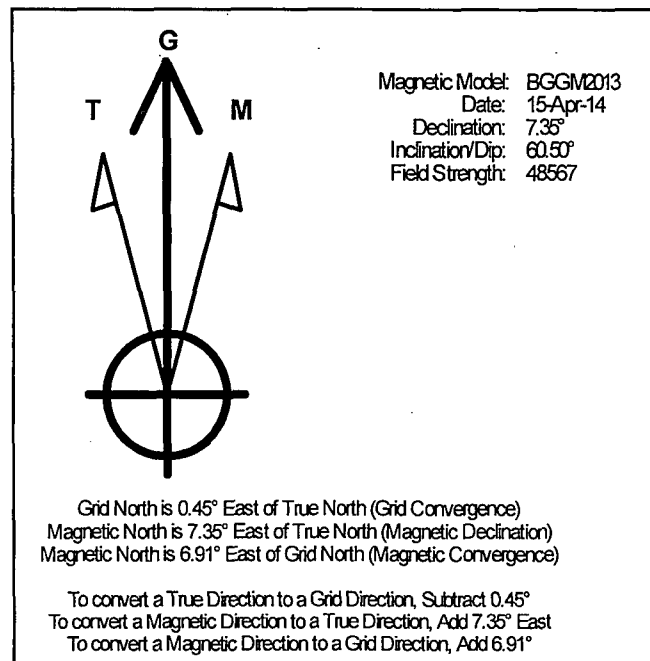
Geographical Coordinates of Well: 32° 38' 15.55" N, 103° 30' 22.56" W

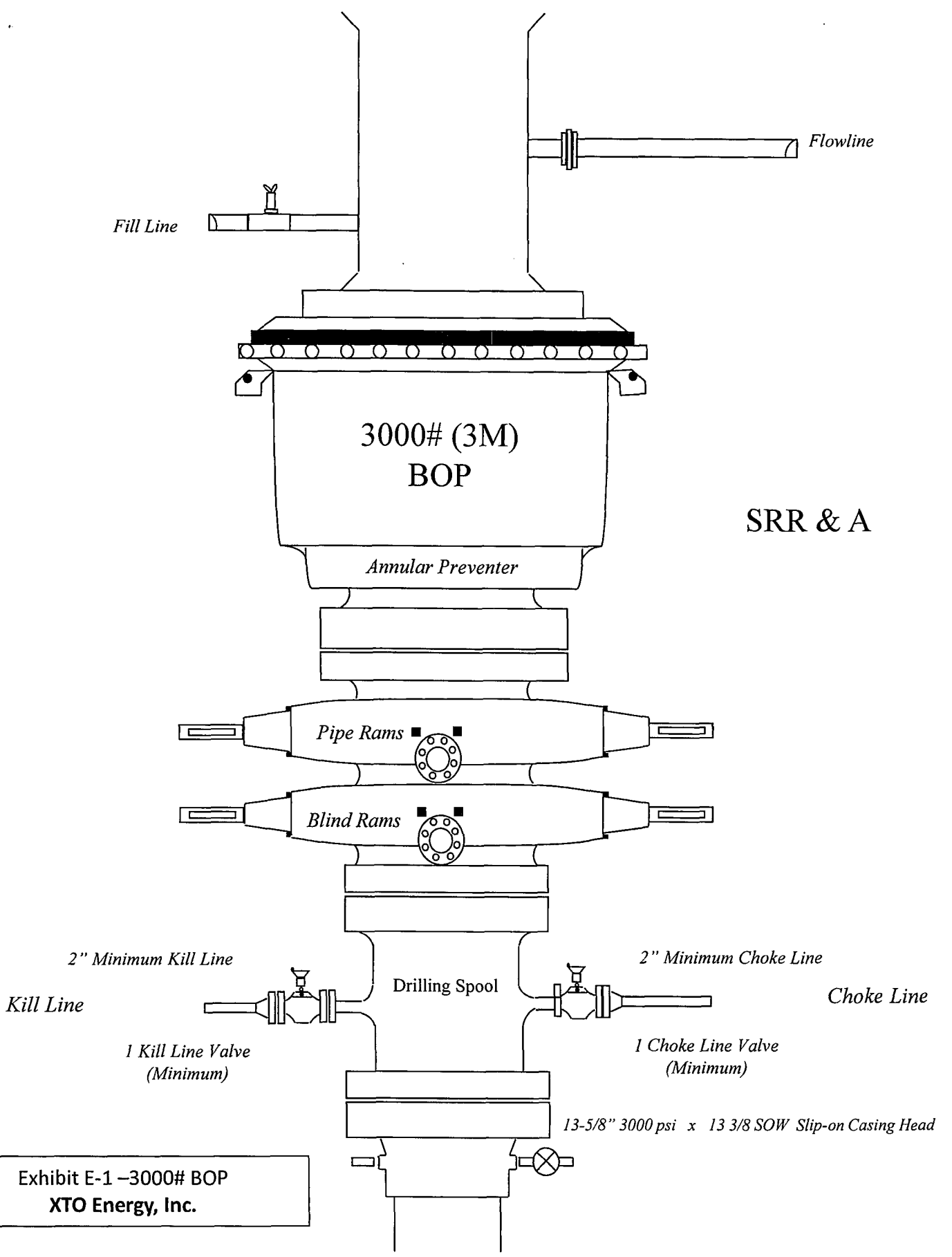
Grid Convergence at Surface is: 0.45°

Based upon Minimum Curvature type calculations, at a Measured Depth of 16,057.59usft

the Bottom Hole Displacement is 5,381.23usft in the Direction of 0.40° (Grid).

Magnetic Convergence at surface is: -6.91° (15 April 2014, , BGGM2013)





**Exhibit E-1 –3000# BOP
XTO Energy, Inc.**

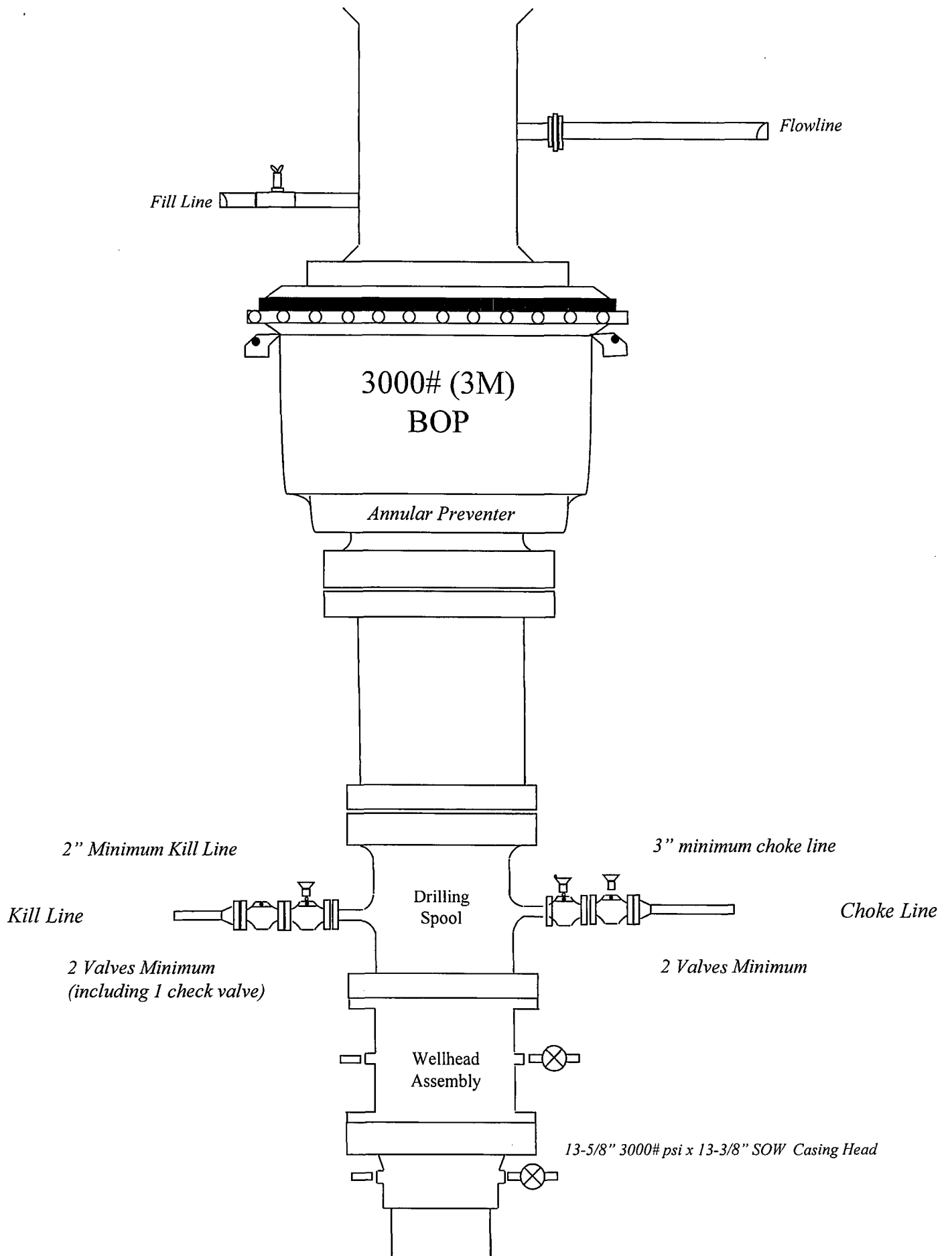
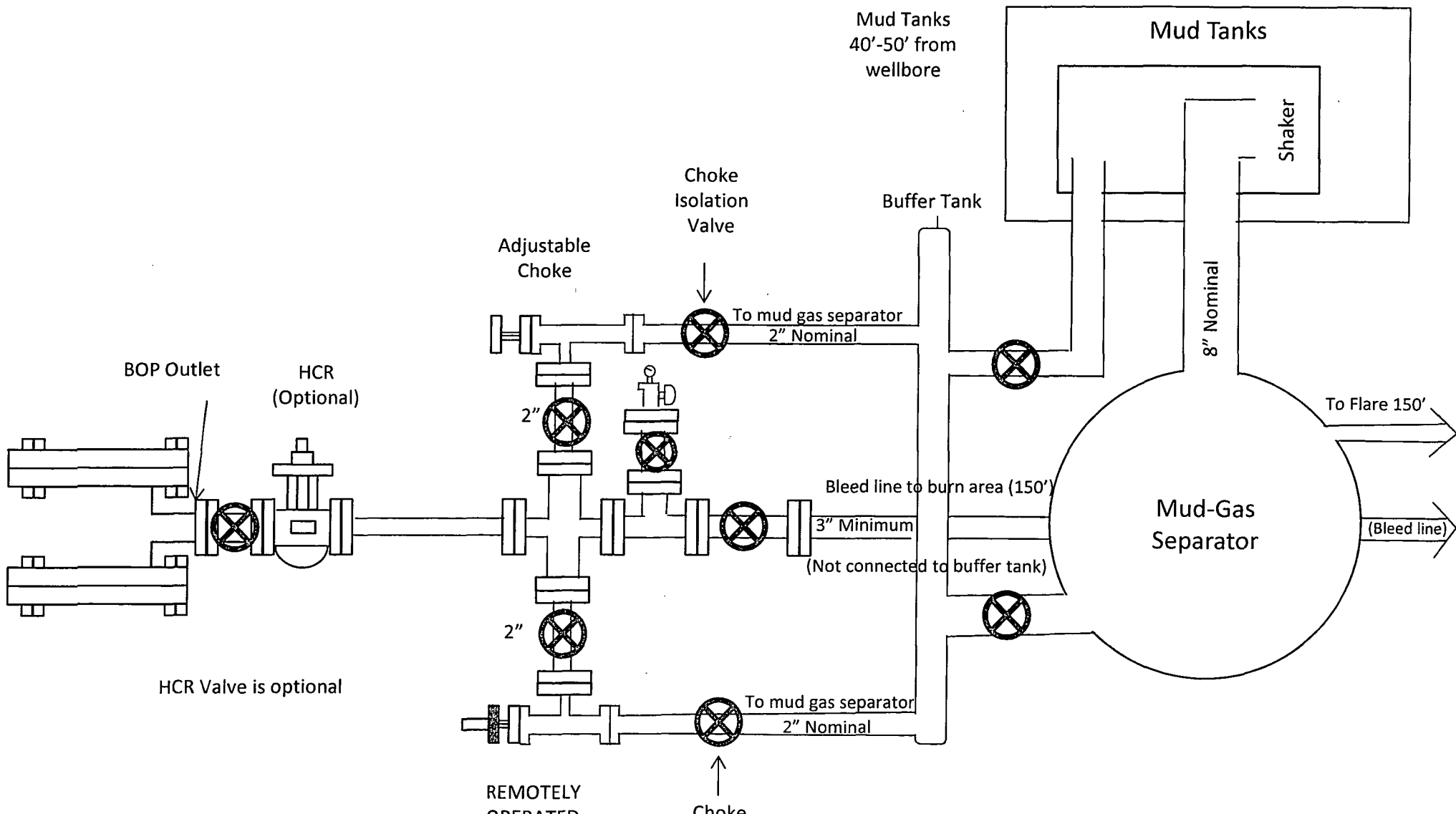


Exhibit E-1 – 3000# BOP



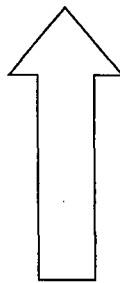
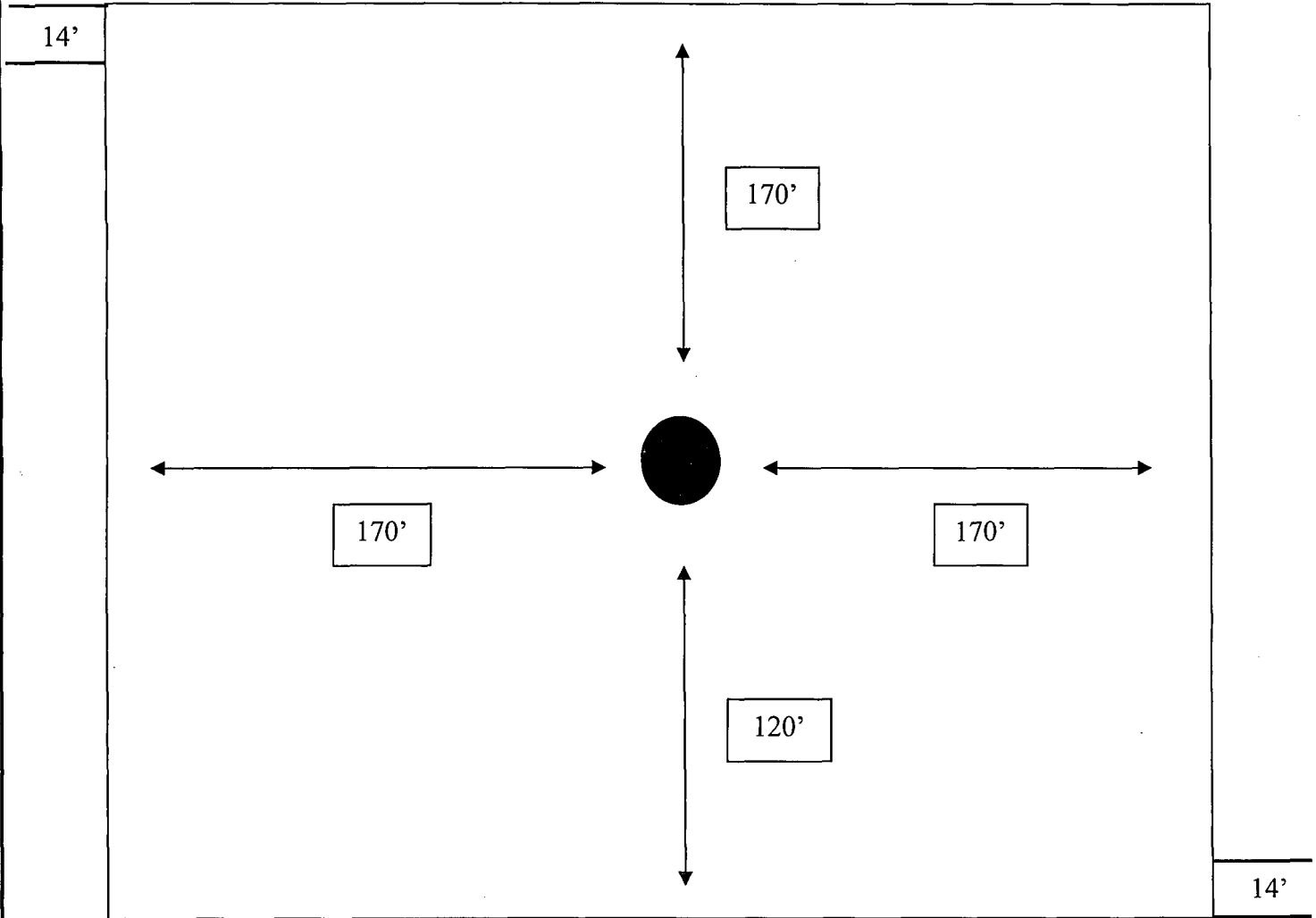
**Drilling Operations
Choke Manifold
3M Service**

Exhibit E-1 – Choke Manifold Diagram
Nash Unit #55H
XTO Energy, Inc..

EXHIBIT D

**Rig Plat Only
PERLA NEGRA FED COM #4H
V-DOOR WEST**

NORTH



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