

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

14-740

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. SH:NMN0381550C /BH:NMN026395
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator XTO Energy Inc. (5380)		7. Unit or CA Agreement Name and No.
3a. Address 200 LORAIN STE. 800 MIDLAND, TX 79701	3b. Phone No. (include area code) 432-620-6714	8. Lease Name and Well No. Perla Negra Fed Com 3H (39834)
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 200 FSL & 2000 FEL (O) At proposed prod. zone 200 FNL & 1890 FEL (B)		9. API Well No. 30-025-42710
14. Distance in miles and direction from nearest town or post office* 18 Miles West/Southwest of Hobbs, NM		10. Field and Pool, or Exploratory Lea; Bone Spring (37570)
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 200'		11. Sec., T., R., M., or Blk. and Survey or Area Section 24, T19S, R34E
16. No. of Acres in lease SH:320, BH:480		12. County or Parish Lea
17. Spacing Unit dedicated to this well 160		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SH: 1220		19. Proposed Depth MD: 15,532' TD: 10829'
20. BLM/BIA Bond No. on file UTB000138		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3784' GL
22. Approximate date work will start* ASAP		23. Estimated duration 45 Days

24. Attachments

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

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature Stephanie Rabadue	Name (Printed/Typed) Stephanie Rabadue	Date 03/20/2014
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Regulatory Analyst	
Approved by (Signature) Steve Caffey	Name (Printed/Typed) Steve Caffey
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

KZ
07/31/2015Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL
JUL 31 2015

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

XTO Energy Inc.
Perla Negra Federal COM 3H
Projected TD: 15532' MD / 10829' TVD
SHL: 200' FSL & 2000' FEL, SECTION 24, T19S, R34E
BHL: 200' FNL & 1890' FEL, SECTION 24, T19S, R34E
Lea County, NM

HOBBS OCD

JUL 30 2015

RECEIVED

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	1801'	Water
Top of Salt	1966'	
Base of Salt	3276'	
Yates	3476'	Water/Oil/Gas
Seven Rivers	4041'	Water/Oil/Gas
Queen	4739'	Water/Oil/Gas
Brushy Canyon	6661'	Water/Oil/Gas
Bone Spring	8201'	Water/Oil/Gas
1 st Bone Spring Ss	9536'	Water/Oil/Gas
2 nd Bone Spring Ss	10079'	Water/Oil/Gas
3 rd Bone Spring Ss	10712'	Water/Oil/Gas
Target/Land Curve	10891'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 180'.

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 @ 1900' 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' - 1900'	13-3/8"	54.5#	STC	J-55	New	4.01	1.30	4.96
12-1/4"	0' - 3800'	9-5/8"	40#	LTC	J-55	New	2.39	1.28	3.42
8-3/4"	0' - 15532'	5-1/2"	17#	BTC	HCP-110	New	1.12	1.47	2.15

WELLHEAD:

- A. Starting Head: 13-5/8" 3000 psi 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

4. CEMENT PROGRAM:

- A. **Surface Casing:** 13-3/8", 54.5#, NEW J-55, STC casing to be set at $\pm 1900'$.

Lead: 20 bbls FW, then 1250 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 $\pm 3800'$. *See cost*

Lead: 20 bbls FW, then 900 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 $\pm 15287'$. Casing will be cemented and will include sliding sleeves for the completion.

Lead: 20 bbls FW, then 730 sx Tuned Light + 0.5 lbm/sk CFR-3 + 1.5 lbm/sk salt + 0.1% HR601 (mixed at 10.5 ppg, 2.69 ft³/sk, 12.26 gal/sx wtr) Compr Strengths 12 hr – 126 psi 16 hr – 500 psi 48 hr – 1106 psi

Tail: 1290 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 cost*

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" 3M Hydril and a 13-5/8" 5M Double Ram BOP.

All BOP testing will be done by an independent service company. When nipping up on the 13-5/8" 3M bradenhead and flange, pressure testing BOP will be limited to 3000psi. When nipping up on the 9-5/8", pressure testing BOP will be limited to 5000psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagram is attached.

6. PROPOSED MUD CIRCULATION SYSTEM:

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 1900'	17-1/2"	FW/Native	8.5-8.8	35-40	NC
1900' to 3800'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3800' to 15532'	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:

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:

None anticipated. Max bottom hole pressure should not exceed 4870 psi. BHT of 150 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. *See COA*
- 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 3H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: Pioneer 33

SURFACE LOCATION

US State Plane 1927 (Exact solution)
New Mexico East 3001
Elevation: GL 3784' + KB 17' @ 3801.00usft (Pioneer 33)
Northing Easting Latitude Longitude
597163.20 753081.50 32° 38' 20.443 N 103° 30' 40.271 W

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

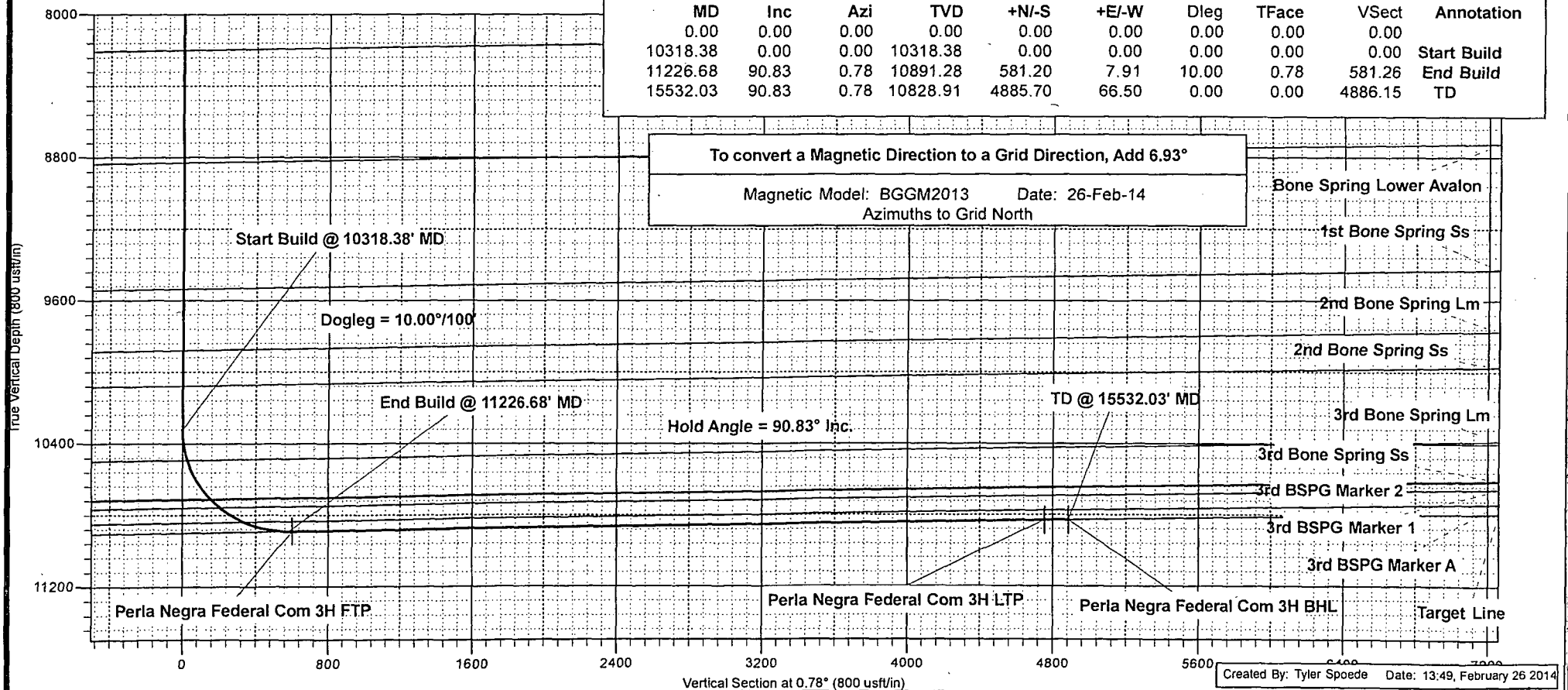
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Perla Negra Federal Com 3H BHL	10828.91	4885.70	66.50	602048.90	753148.00	32° 39' 8.780 N	103° 30' 39.051 W
Perla Negra Federal Com 3H LTP	10830.79	4755.80	64.70	601919.00	753146.20	32° 39' 7.495 N	103° 30' 39.084 W
Perla Negra Federal Com 3H FTP	10891.00	599.90	8.20	597763.10	753089.70	32° 38' 26.378 N	103° 30' 40.121 W

SECTION DETAILS

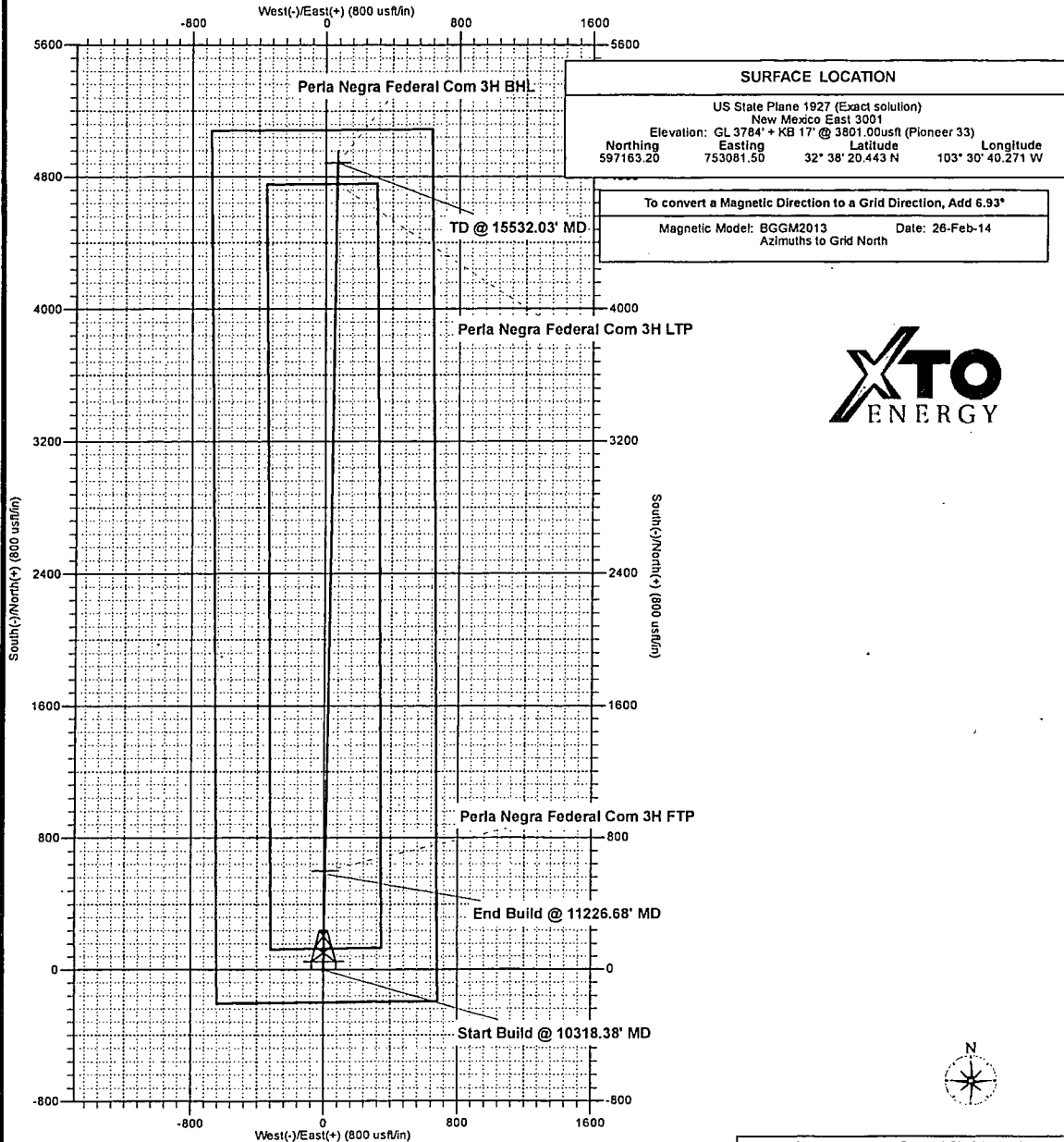
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10318.38	0.00	0.00	10318.38	0.00	0.00	0.00	0.00	0.00	Start Build
11226.68	90.83	0.78	10891.28	581.20	7.91	10.00	0.78	581.26	End Build
15532.03	90.83	0.78	10828.91	4885.70	66.50	0.00	0.00	4886.15	TD

To convert a Magnetic Direction to a Grid Direction, Add 6.93°

Magnetic Model: BGGM2013 Date: 26-Feb-14
Azimuths to Grid North



Project: Lea County, NM (NAD27)
 Site: Perla Negra Federal Com
 Well: Perla Negra Federal Com 3H
 Wellbore: Wellbore #1
 Plan: Plan #1
 Rig: Pioneer 33



XTO Energy Inc.

Lea County, NM (NAD27)
Perla Negra Federal Com
Perla Negra Federal Com 3H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Proposal Report

26 February, 2014

Well Coordinates: 597,163.20 N, 753,081.50 E (32° 38' 20.44" N, 103° 30' 40.27" W)
Ground Level: 3,784.00 usft

Local Coordinate Origin:	Centered on Well Perla Negra Federal Com 3H
Viewing Datum:	GL 3784' + KB 17' @ 3801.00usft (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 3H - 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
4,100.00	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
4,800.00	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
5,266.00	0.00	0.00	5,266.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Capitan										
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

Plan Report for Perla Negra Federal Com 3H - 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 (°)
5,600.00	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
6,500.00	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
6,661.00	0.00	0.00	6,661.00	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
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,201.00	0.00	0.00	8,201.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring										
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
8,831.00	0.00	0.00	8,831.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring Lower Avalon										
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
9,536.00	0.00	0.00	9,536.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1st Bone Spring Ss										
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
9,881.00	0.00	0.00	9,881.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2nd Bone Spring Lm										
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
10,079.00	0.00	0.00	10,079.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2nd Bone Spring Ss										
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Plan Report for Perla Negra Federal Com 3H - 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
10,318.38	0.00	0.00	10,318.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build @ 10318.38° MD - Dogleg = 10.00°/100'										
10,350.00	3.16	0.78	10,349.98	0.87	0.01	0.87	10.00	10.00	0.00	0.78
10,400.00	8.16	0.78	10,399.72	5.80	0.08	5.80	10.00	10.00	0.00	0.00
10,450.00	13.16	0.78	10,448.85	15.05	0.20	15.05	10.00	10.00	0.00	0.00
10,495.41	17.70	0.78	10,492.61	27.13	0.37	27.13	10.00	10.00	0.00	0.00
3rd Bone Spring Lm										
10,500.00	18.16	0.78	10,496.97	28.54	0.39	28.55	10.00	10.00	0.00	0.00
10,550.00	23.16	0.78	10,543.74	46.18	0.63	46.18	10.00	10.00	0.00	0.00
10,600.00	28.16	0.78	10,588.80	67.82	0.92	67.83	10.00	10.00	0.00	0.00
10,650.00	33.16	0.78	10,631.79	93.31	1.27	93.32	10.00	10.00	0.00	0.00
10,700.00	38.16	0.78	10,672.40	122.45	1.67	122.46	10.00	10.00	0.00	0.00
10,749.24	43.09	0.78	10,709.76	154.49	2.10	154.51	10.00	10.00	0.00	0.00
3rd Bone Spring Ss										
10,750.00	43.16	0.78	10,710.32	155.02	2.11	155.03	10.00	10.00	0.00	0.00
10,756.03	43.76	0.78	10,714.69	159.16	2.17	159.18	10.00	10.00	0.00	0.00
3rd BSPG Marker 2										
10,800.00	48.16	0.78	10,745.25	190.76	2.60	190.78	10.00	10.00	0.00	0.00
10,819.52	50.11	0.78	10,758.02	205.52	2.80	205.54	10.00	10.00	0.00	0.00
3rd BSPG Marker 1										
10,850.00	53.16	0.78	10,776.94	229.42	3.12	229.44	10.00	10.00	0.00	0.00
10,900.00	58.16	0.78	10,805.13	270.69	3.68	270.71	10.00	10.00	0.00	0.00
10,950.00	63.16	0.78	10,829.62	314.26	4.28	314.29	10.00	10.00	0.00	0.00
10,971.97	65.36	0.78	10,839.16	334.04	4.55	334.07	10.00	10.00	0.00	0.00
3rd BSPG Marker A										
11,000.00	68.16	0.78	10,850.22	359.80	4.90	359.83	10.00	10.00	0.00	0.00
11,050.00	73.16	0.78	10,866.77	406.95	5.54	406.99	10.00	10.00	0.00	0.00
11,100.00	78.16	0.78	10,879.15	455.38	6.20	455.42	10.00	10.00	0.00	0.00
11,150.00	83.16	0.78	10,887.26	504.69	6.87	504.74	10.00	10.00	0.00	0.00
11,200.00	88.16	0.78	10,891.04	554.53	7.55	554.58	10.00	10.00	0.00	0.00
11,223.87	90.55	0.78	10,891.31	578.39	7.87	578.45	10.00	10.00	0.00	0.00
Target Line										
11,226.68	90.83	0.78	10,891.28	581.21	7.91	581.26	9.99	9.99	0.00	0.00
End Build @ 11226.68° MD - Hold Angle = 90.83° Inc.										
11,245.38	90.83	0.78	10,891.01	599.90	8.17	599.96	0.00	0.00	0.00	0.00
Perla Negra Federal Com 3H FTP										
11,300.00	90.83	0.78	10,890.21	654.51	8.91	654.57	0.00	0.00	0.00	0.00
11,400.00	90.83	0.78	10,888.77	754.49	10.27	754.56	0.00	0.00	0.00	0.00
11,500.00	90.83	0.78	10,887.32	854.47	11.63	854.55	0.00	0.00	0.00	0.00
11,600.00	90.83	0.78	10,885.87	954.45	12.99	954.54	0.00	0.00	0.00	0.00
11,700.00	90.83	0.78	10,884.42	1,054.43	14.35	1,054.53	0.00	0.00	0.00	0.00
11,800.00	90.83	0.78	10,882.97	1,154.41	15.71	1,154.52	0.00	0.00	0.00	0.00
11,900.00	90.83	0.78	10,881.52	1,254.39	17.07	1,254.51	0.00	0.00	0.00	0.00
12,000.00	90.83	0.78	10,880.07	1,354.37	18.43	1,354.50	0.00	0.00	0.00	0.00
12,100.00	90.83	0.78	10,878.63	1,454.35	19.80	1,454.49	0.00	0.00	0.00	0.00
12,200.00	90.83	0.78	10,877.18	1,554.33	21.16	1,554.48	0.00	0.00	0.00	0.00
12,300.00	90.83	0.78	10,875.73	1,654.31	22.52	1,654.47	0.00	0.00	0.00	0.00
12,400.00	90.83	0.78	10,874.28	1,754.29	23.88	1,754.46	0.00	0.00	0.00	0.00
12,500.00	90.83	0.78	10,872.83	1,854.27	25.24	1,854.45	0.00	0.00	0.00	0.00
12,600.00	90.83	0.78	10,871.38	1,954.25	26.60	1,954.44	0.00	0.00	0.00	0.00
12,700.00	90.83	0.78	10,869.93	2,054.23	27.96	2,054.42	0.00	0.00	0.00	0.00
12,800.00	90.83	0.78	10,868.49	2,154.21	29.32	2,154.41	0.00	0.00	0.00	0.00
12,900.00	90.83	0.78	10,867.04	2,254.19	30.68	2,254.40	0.00	0.00	0.00	0.00
13,000.00	90.83	0.78	10,865.59	2,354.17	32.04	2,354.39	0.00	0.00	0.00	0.00
13,100.00	90.83	0.78	10,864.14	2,454.16	33.40	2,454.38	0.00	0.00	0.00	0.00
13,200.00	90.83	0.78	10,862.69	2,554.14	34.76	2,554.37	0.00	0.00	0.00	0.00
13,300.00	90.83	0.78	10,861.24	2,654.12	36.13	2,654.36	0.00	0.00	0.00	0.00
13,400.00	90.83	0.78	10,859.79	2,754.10	37.49	2,754.35	0.00	0.00	0.00	0.00

Plan Report for Perla Negra Federal Com 3H - 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 (")
13,500.00	90.83	0.78	10,858.35	2,854.08	38.85	2,854.34	0.00	0.00	0.00	0.00
13,600.00	90.83	0.78	10,856.90	2,954.06	40.21	2,954.33	0.00	0.00	0.00	0.00
13,700.00	90.83	0.78	10,855.45	3,054.04	41.57	3,054.32	0.00	0.00	0.00	0.00
13,800.00	90.83	0.78	10,854.00	3,154.02	42.93	3,154.31	0.00	0.00	0.00	0.00
13,900.00	90.83	0.78	10,852.55	3,254.00	44.29	3,254.30	0.00	0.00	0.00	0.00
14,000.00	90.83	0.78	10,851.10	3,353.98	45.65	3,354.29	0.00	0.00	0.00	0.00
14,100.00	90.83	0.78	10,849.65	3,453.96	47.01	3,454.28	0.00	0.00	0.00	0.00
14,200.00	90.83	0.78	10,848.21	3,553.94	48.37	3,554.27	0.00	0.00	0.00	0.00
14,300.00	90.83	0.78	10,846.76	3,653.92	49.73	3,654.26	0.00	0.00	0.00	0.00
14,400.00	90.83	0.78	10,845.31	3,753.90	51.09	3,754.25	0.00	0.00	0.00	0.00
14,500.00	90.83	0.78	10,843.86	3,853.88	52.46	3,854.24	0.00	0.00	0.00	0.00
14,600.00	90.83	0.78	10,842.41	3,953.86	53.82	3,954.23	0.00	0.00	0.00	0.00
14,700.00	90.83	0.78	10,840.96	4,053.84	55.18	4,054.21	0.00	0.00	0.00	0.00
14,800.00	90.83	0.78	10,839.51	4,153.82	56.54	4,154.20	0.00	0.00	0.00	0.00
14,900.00	90.83	0.78	10,838.07	4,253.80	57.90	4,254.19	0.00	0.00	0.00	0.00
15,000.00	90.83	0.78	10,836.62	4,353.78	59.26	4,354.18	0.00	0.00	0.00	0.00
15,100.00	90.83	0.78	10,835.17	4,453.76	60.62	4,454.17	0.00	0.00	0.00	0.00
15,200.00	90.83	0.78	10,833.72	4,553.74	61.98	4,554.16	0.00	0.00	0.00	0.00
15,300.00	90.83	0.78	10,832.27	4,653.72	63.34	4,654.15	0.00	0.00	0.00	0.00
15,400.00	90.83	0.78	10,830.82	4,753.70	64.70	4,754.14	0.00	0.00	0.00	0.00
15,402.10	90.83	0.78	10,830.79	4,755.80	64.73	4,756.24	0.00	0.00	0.00	0.00
Perla Negra Federal Com 3H LTP										
15,500.00	90.83	0.78	10,829.37	4,853.68	66.06	4,854.13	0.00	0.00	0.00	0.00
15,532.03	90.83	0.78	10,828.91	4,885.70	66.50	4,886.15	0.00	0.00	0.00	0.00
TD @ 15532.03' MD - Perla Negra Federal Com 3H BHL										

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,318.38	10,318.38	0.00	0.00	Start Build @ 10318.38' MD
10,318.38	10,318.38	0.00	0.00	Dogleg = 10.00"/100'
11,226.68	10,891.28	581.20	7.91	End Build @ 11226.68' MD
11,226.68	10,891.28	581.21	7.91	Hold Angle = 90.83" Inc.
15,532.03	10,828.91	4,885.70	66.50	TD @ 15532.03' MD

Vertical Section Information

Angle Type	Target	Azimuth (")	Origin Type	Origin		Start TVD (usft)
				+N/-S (usft)	+E/-W (usft)	
TD	No Target (Freehand)	0.78	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	15,532.03	Plan #1	MWD

HALLIBURTON

Plan Report for Perla Negra Federal Com 3H - Plan #1

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,266.00	5,266.00	Capitan		-0.83	0.78
6,661.00	6,661.00	Brushy Canyon		-0.83	0.78
8,201.00	8,201.00	Bone Spring		-0.83	0.78
8,831.00	8,831.00	Bone Spring Lower Avalon		-0.83	0.78
9,536.00	9,536.00	1st Bone Spring Ss		-0.83	0.78
9,881.00	9,881.00	2nd Bone Spring Lm		-0.83	0.78
10,079.00	10,079.00	2nd Bone Spring Ss		-0.83	0.78
10,495.41	10,493.00	3rd Bone Spring Lm		-0.83	0.78
10,749.24	10,712.00	3rd Bone Spring Ss		-0.83	0.78
10,756.03	10,717.00	3rd BSPG Marker 2		-0.83	0.78
10,819.52	10,761.00	3rd BSPG Marker 1		-0.83	0.78
10,971.97	10,844.00	3rd BSPG Marker A		-0.83	0.78
11,223.87	10,899.69	Target Line		-0.83	0.78

Targets associated with this wellbore

Target Name	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Shape
Perla Negra Federal Com 3H FTP	10,891.00	599.90	8.20	Point
Perla Negra Federal Com 3H LTP	10,830.79	4,755.80	64.70	Point
Perla Negra Federal Com 3H BHL	10,828.91	4,885.70	66.50	Point

**North Reference Sheet for Perla Negra Federal Com - Perla Negra Federal Com 3H
- 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 3784' + KB 17' @ 3801.00usft (Pioneer 33). Northing and Easting are relative to Perla Negra Federal Com 3H

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: 0.99998244

Grid Coordinates of Well: 597,163.20 usft N, 753,081.50 usft E

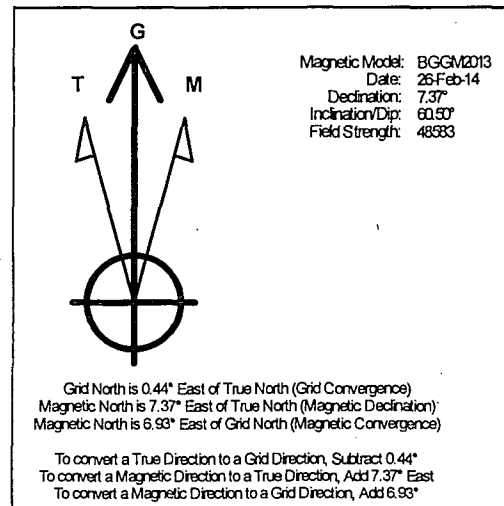
Geographical Coordinates of Well: 32° 38' 20.44" N, 103° 30' 40.27" W

Grid Convergence at Surface is: 0.44°

Based upon Minimum Curvature type calculations, at a Measured Depth of 15,532.03usft

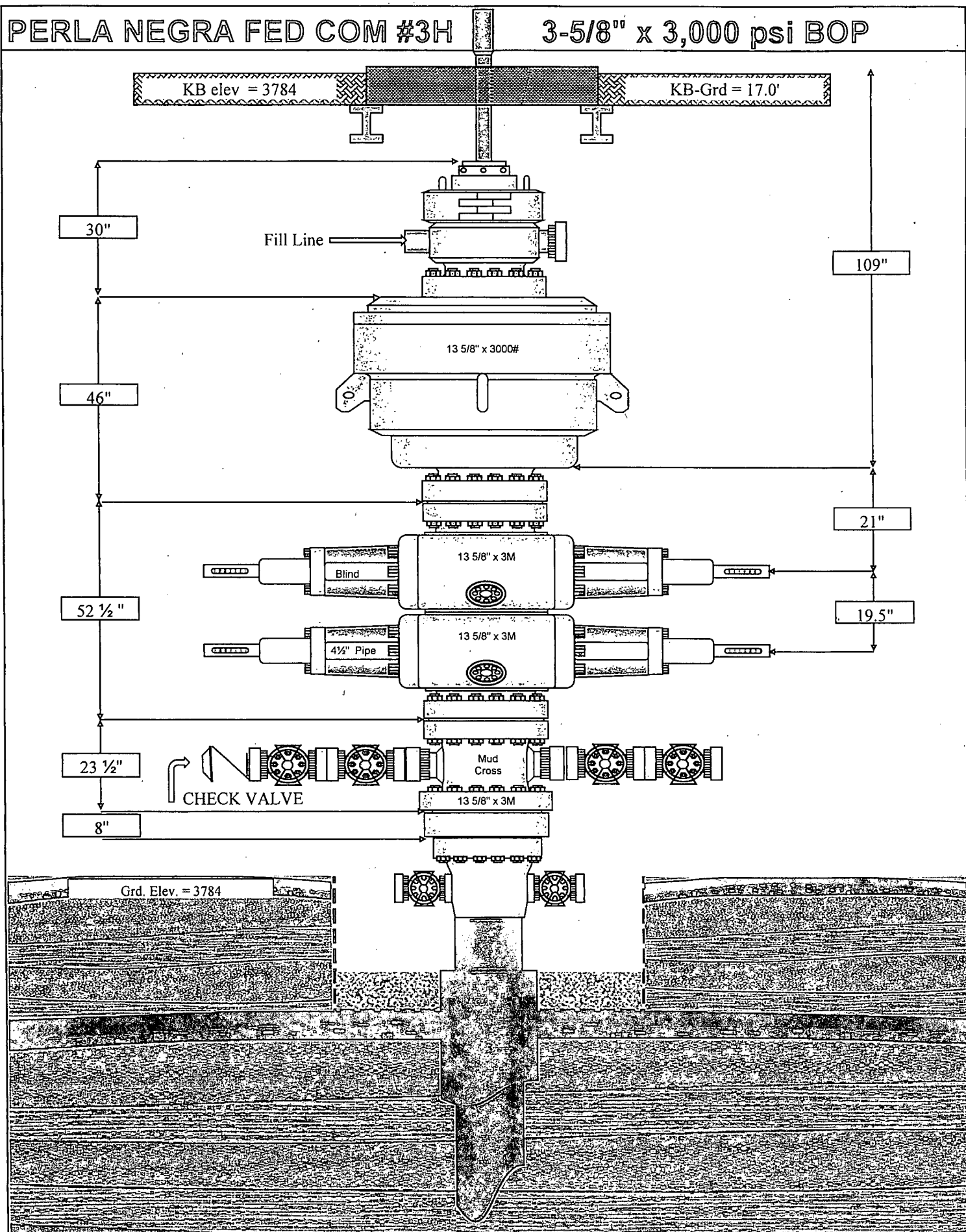
the Bottom Hole Displacement is 4,886.15usft in the Direction of 0.78° (Grid).

Magnetic Convergence at surface is: -6.93° (26 February 2014, , BGGM2013)



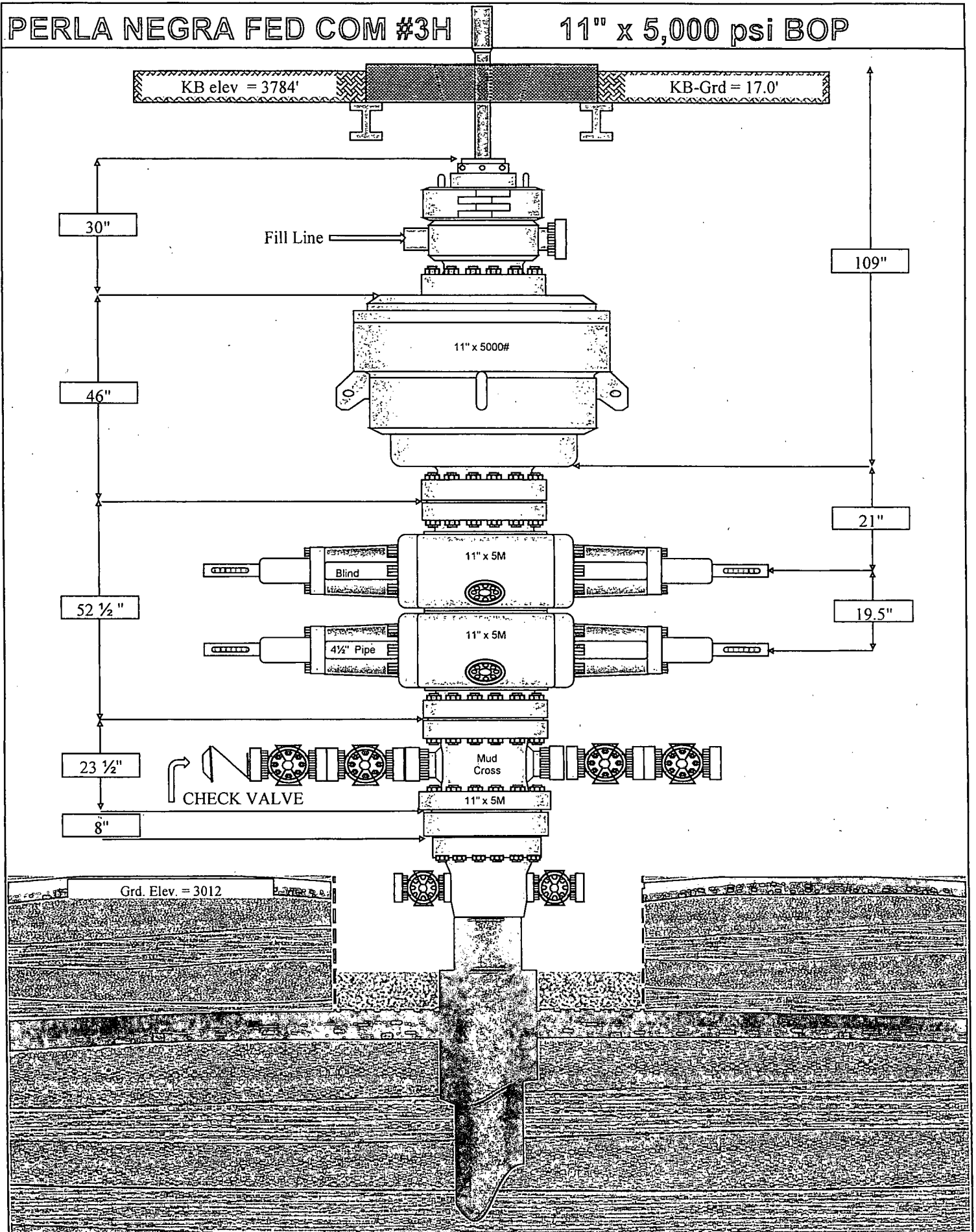
3-5/8" x 3,000 psi BOP

3-5/8" x 3,000 psi BOP



PERLA NEGRA FED COM #3H

11" x 5,000 psi BOP



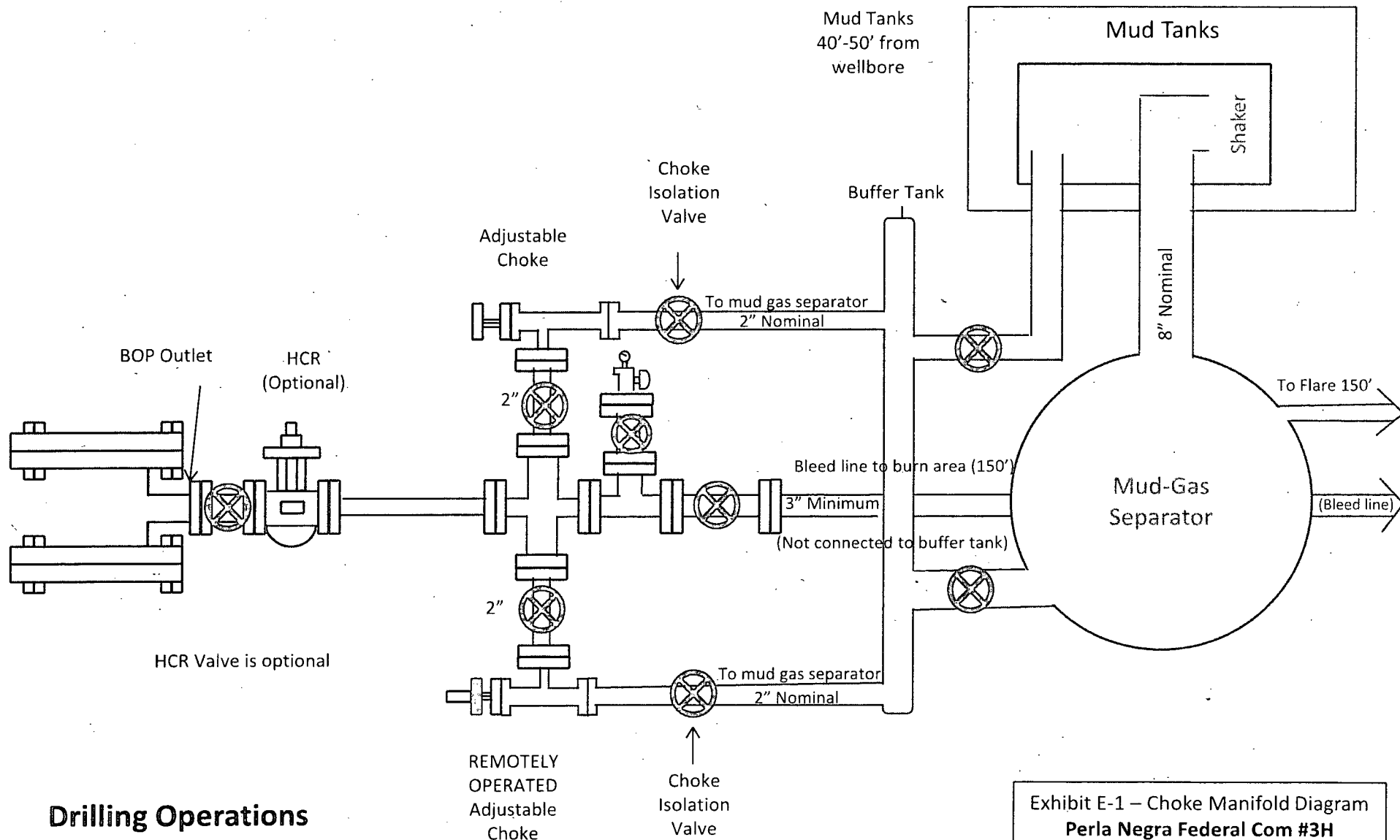


Exhibit E-1 – Choke Manifold Diagram
 Perla Negra Federal Com #3H
 XTO Energy, Inc..

Drilling Operations
Choke Manifold
3M Service

Plat for Closed Loop System

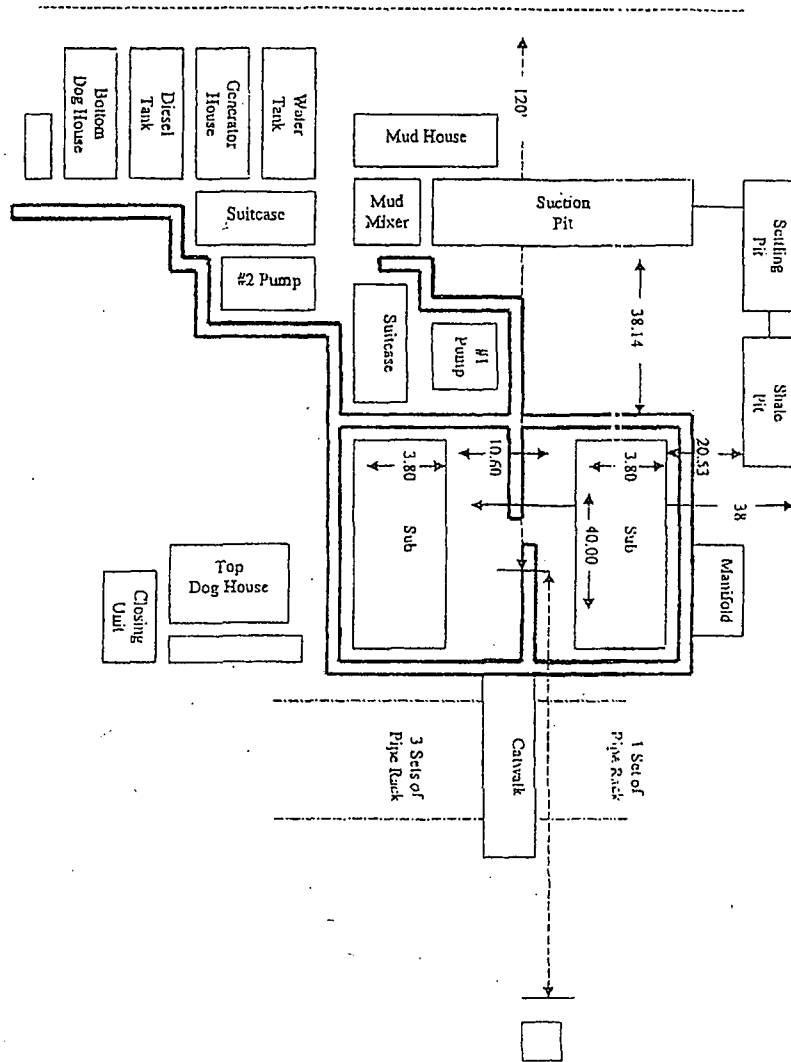


EXHIBIT D

**Rig Plat Only
PERLA NEGRA FED COM #3H
V-DOOR EAST**

NORTH

