Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

Carlsbad Field Office
OCD Artesia

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	5. Lease Serial No. NMLC064894A
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA/Agreement, Name and/or No.
	8. Well Name and No. POKER LAKE UNIT 464H
2. Name of Operator BOPCO LP Contact: KELLY KARDOS E-Mail: kelly_kardos@xtoenergy.com	9. API Well No. 30-015-43623
3a. Address PO BOX 2760 MIDLAND, TX 79702 3b. Phone No. (include area code) Ph: 432-620-4374	10. Field and Pool or Exploratory Area PURPLE SAGE; WOLFCAMP
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* Sec 17 T25S R30E Mer NMP SESE 550FSL 715FEL 32.124473 N Lat, 103.897095 W Lon	11. County or Parish, State EDDY COUNTY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BOPCO, LP requests approval of the following changes to the original APD:

Directional Drill Plan
Drilling Program
C102
BOP/Choke Design
Flex Hose Variance

Accepted for record - NMOCD 11-27-17

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Please see attached....

9/20/2017: Casing setting depth verified by Robert Scalz (BLM)

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 22 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #387870 verified by the BLM Well Information System
For BOPCO LP, sent to the Carlsbad
Committed to AFMSS for processing by MUSTAFA HAQUE on 09/12/2017 ()

Name *(Printed/Typed)* KELLY KARDOS — Title REGULATORY COORDINATOR

Signature (Electronic Submission) — Date 09/07/2017

APPROVED
NOV 8

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Mustafa Haque — Title Engineer — Date 11-08-2017

Conditions of approval, if any, are attached. Approval of this notice 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.

Office BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-43623	98220	Purple Sage; Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT	464H

[7] OGRID No.	[8] Operator Name	[9] Elevation
260737	BOPCO, LP	3239'

[10] Surface Location

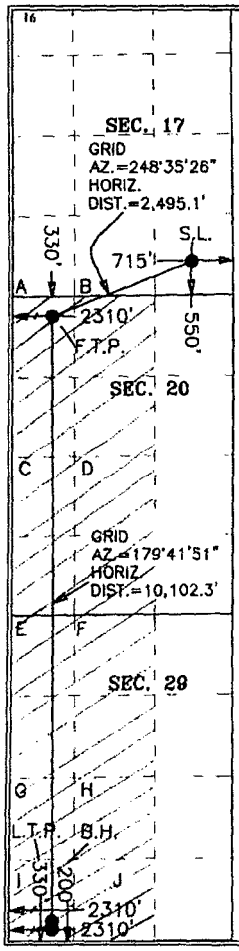
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	17	25 S	30 E		550	SOUTH	715	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	25 S	30 E		200	SOUTH	2310	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			R-14262

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.



SURFACE LOCATION
NAD 27 NME
Y= 409,234.6
X= 635,198.8
LAT.= 32.124349°N
LONG.= 103.896612°W

FIRST TAKE POINT
NAD 27 NME
Y= 408,323.8
X= 632,875.9
LAT.= 32.121871°N
LONG.= 103.904127°W

LAST TAKE POINT
NAD 27 NME
Y= 398,351.8
X= 632,928.1
LAT.= 32.094458°N
LONG.= 103.904087°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 398,221.8
X= 632,928.9
LAT.= 32.094100°N
LONG.= 103.904086°W

SURFACE LOCATION
NAD 83 NME
Y= 409,292.8
X= 676,383.6
LAT.= 32.124473°N
LONG.= 103.897095°W

FIRST TAKE POINT
NAD 83 NME
Y= 408,382.0
X= 674,060.7
LAT.= 32.121995°N
LONG.= 103.904611°W

LAST TAKE POINT
NAD 83 NME
Y= 398,409.8
X= 674,113.2
LAT.= 32.094582°N
LONG.= 103.904569°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 398,279.8
X= 674,114.0
LAT.= 32.094225°N
LONG.= 103.904568°W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 408,641.0 N,	X= 631,903.3 E	
B - Y= 408,658.7 N,	X= 633,242.1 E	
C - Y= 405,983.3 N,	X= 631,913.2 E	
D - Y= 405,999.7 N,	X= 633,250.8 E	
E - Y= 403,325.1 N,	X= 631,923.1 E	
F - Y= 403,340.8 N,	X= 633,259.4 E	
G - Y= 400,669.1 N,	X= 631,940.6 E	
H - Y= 400,683.8 N,	X= 633,276.4 E	
I - Y= 398,011.2 N,	X= 631,958.0 E	
J - Y= 398,025.4 N,	X= 633,293.5 E	

CORNER COORDINATES TABLE
NAD 83 NME

A - Y= 408,699.2 N,	X= 673,088.1 E	
B - Y= 408,716.9 N,	X= 674,426.9 E	
C - Y= 406,041.4 N,	X= 673,098.1 E	
D - Y= 406,057.8 N,	X= 674,435.7 E	
E - Y= 403,383.2 N,	X= 673,108.1 E	
F - Y= 403,398.9 N,	X= 674,444.4 E	
G - Y= 400,727.1 N,	X= 673,125.6 E	
H - Y= 400,741.8 N,	X= 674,461.5 E	
I - Y= 398,069.2 N,	X= 673,143.1 E	
J - Y= 398,083.4 N,	X= 674,478.7 E	

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 9/7/17 Date

Kelly Kardos
Printed Name

kelly_kardos@xtoenergy.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

06-06-2017
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number RR 2017050745

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

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

BOPCO, LP
Poker Lake Unit 464H
Projected TD: 22997' MD / 11979' TVD
SHL: 550' FSL & 715' FEL , Section 17, T25S, R30E
BHL: 200' FSL & 2310' FWL , Section 29, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	860'	Water
Top of Salt	1108'	Water
Base of Salt	3757'	Water
Delaware	3787'	Water
Bone Spring	7576'	Water/Oil/Gas
1st Bone Spring Ss	8515'	Water/Oil/Gas
2nd Bone Spring Ss	9380'	Water/Oil/Gas
3rd Bone Spring Ss	10414'	Water/Oil/Gas
Wolfcamp	10834'	Water/Oil/Gas
Target/Land Curve	11979'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon
*** Groundwater depth 40' (per NM State Engineers Office).

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 inch casing @ 1080' (28' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 3790' and circulating cement to surface. An 8-3/4 inch vertical and curve hole will be drilled and 7 inch casing run and cemented 500' into the 9-5/8 inch casing. A 6-1/8 inch curve and lateral hole will be drilled to MD/TD and 4-1/2 inch liner will be set at TD and cemented back 250' into the 7 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1080'	13-3/8"	48#	STC	H-40	New	3.50	1.56	6.21
12-1/4"	0' – 3790'	9-5/8"	36#	LTC	J-55	New	1.13	1.69	3.32
8-3/4"	0' – 12350'	7"	29#	LTC	P-110	New	1.18	1.43	2.23
6-1/8"	11484' – 22997'	4-1/2"	13.5#	BTC	P-110	New	1.12	1.50	1.95

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 9-5/8" & 4-1/2" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

A. Starting Head: 13-3/8" SOW bottom x 13-5/8" 3M top flange
B. 'B' Section/Drilling Spool: 13-5/8" 3M bottom flange x 11" 5M top flange
C. Tubing Head: 11" 5M bottom flange x 7-1/16" 10M top flange
   - Wellhead will be installed by manufacturer's representatives.
   - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
   - Manufacturer will witness installation of test plug for initial test.

- Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

4. Cement Program

Surface Casing: 13-3/8", 48# New H-40, STC casing to be set at +/- 1080'

Lead: 570 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 300 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing: 9-5/8", 36# New J-55, LTC casing to be set at +/- 3790'

Lead: 1090 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7", 29# New P-110, LTC casing to be set at +/- 12350'

Lead: 1130 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 60 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Production Casing: 4-1/2", 13.5# New P-110, BTC casing to be set at +/- 22997'

Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 11484 ft3/sx, 8.38 gal/sx water)
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

-DLOW cement. SEE COA

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum ~~5M~~ 10M Hydril and a 13-5/8" minimum ~~5M~~ 10M Double Ram BOP. MASP should not exceed 5151 psi.

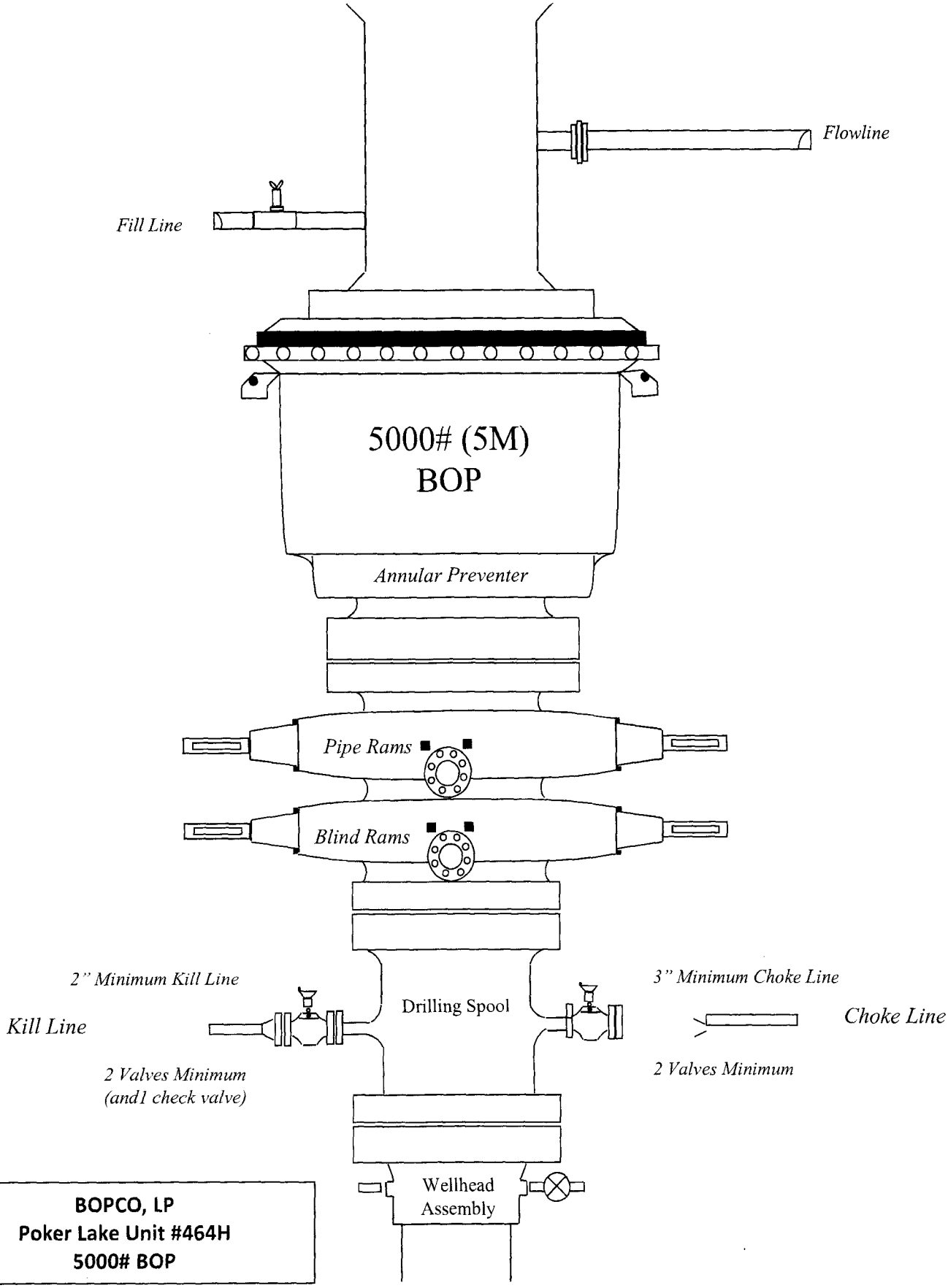
All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13-5/8" ~~5M~~ 10M bradenhead and flange, the BOP test will be limited to ~~5000~~ 10000 psi. When nippling up on the 9-5/8", the BOP will be tested to a minimum of ~~5000~~ 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

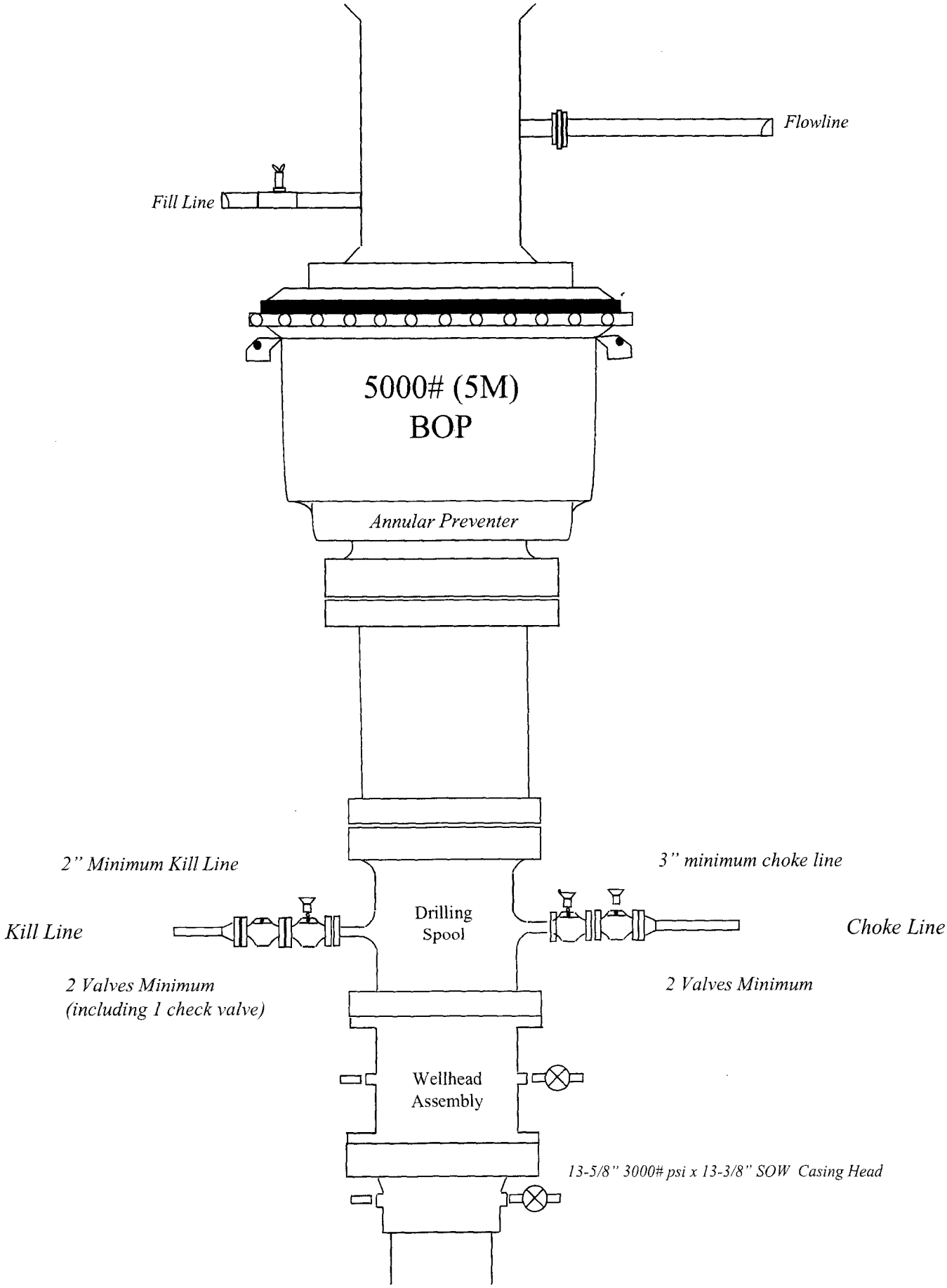
6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 1080'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
1080' to 3790'	12-1/4"	Brine/Gel Sweeps	9.8-10.2	30-32	NC
3790' to 12350'	8-3/4"	FW / Cut Brine	8.6-9.5	29-32	NC - 20
12350' to 22997'	6-1/8"	FW / Cut Brine / Polymer	12.2-12.5	32-50	20-Aug

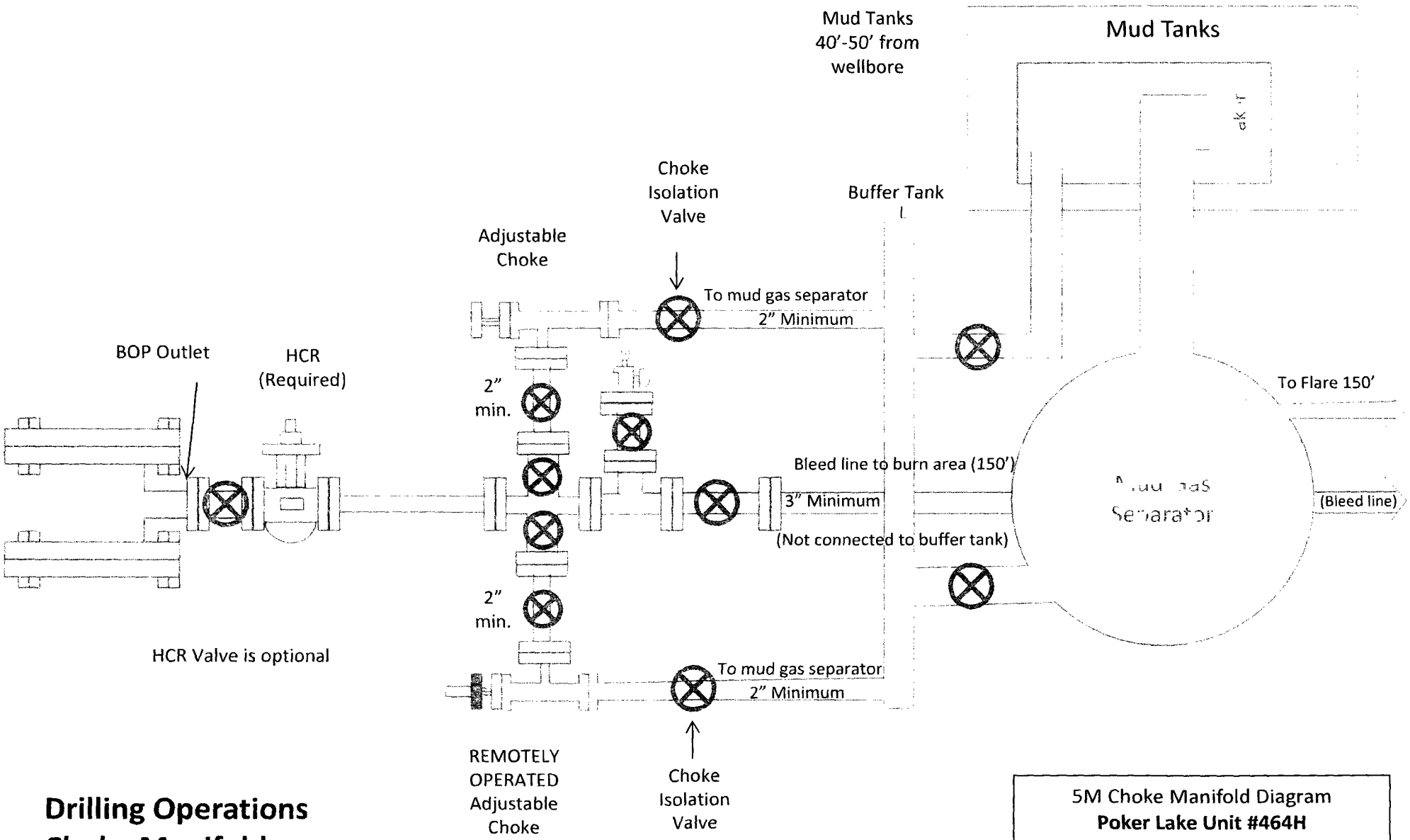
The necessary mud products for weight addition and fluid loss control will be on location at all times.
Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials 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.



BOPCO, LP
Poker Lake Unit #464H
5000# BOP



BOPCO, LP
Poker Lake Unit #464H
5000# BOP



Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
Poker Lake Unit #464H
BOPCO, LP

XTO Energy Inc.

GE 3238 + 26.5 KB @ 3264.50usft (TBD)

Ground Level: 3238.00

Project: Eddy County, NM (NAD27)
Site: Poker Lake Unit
Well: Poker Lake Unit #464H
Wellbore: Wellbore #1
Design: Plan #1
Rig: TBD

XTO ENERGY

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

T G M

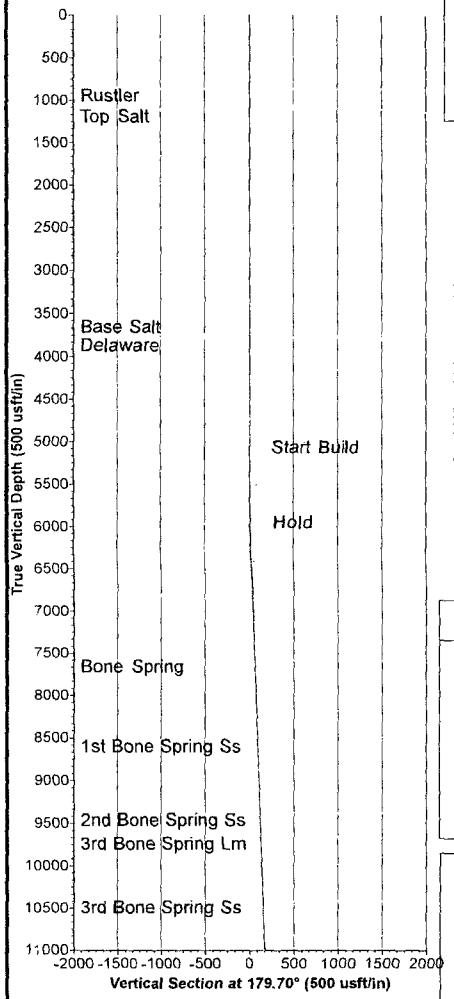
Azimuths to Grid North
True North: -0.23°
Magnetic North: 6.92°

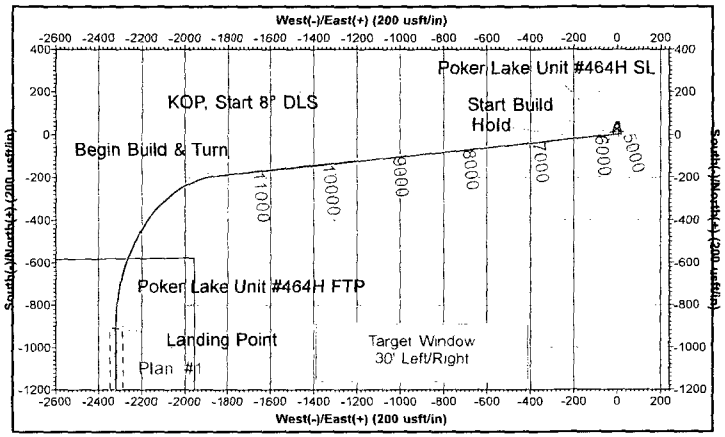
Magnetic Field
Strength: 47874.9snT
Dip Angle: 59.88°
Date: 9/1/2017
Model: BGGM2017

WELL DETAILS

Ground Level: 3238.00

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	409234.60	635198.80	32° 7' 27.657 N	103° 53' 47.804 W



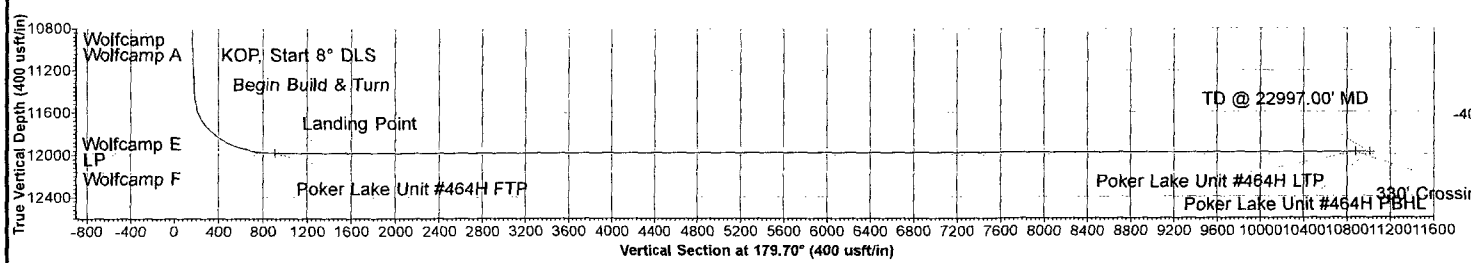


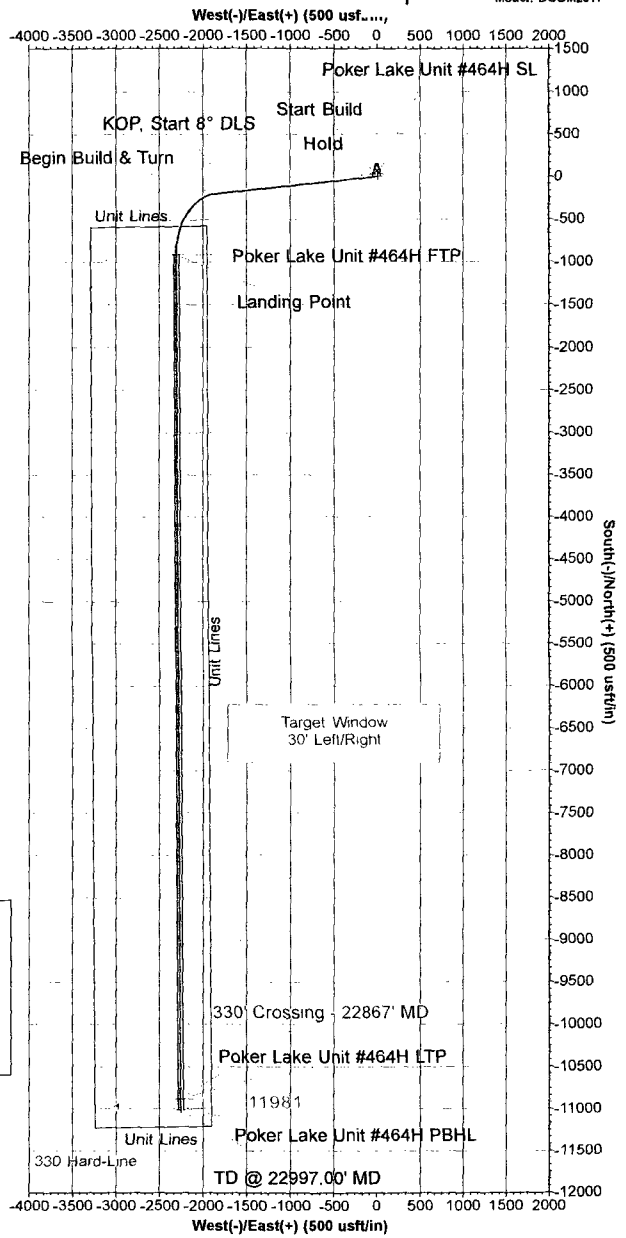
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5559.01	0.00	0.00	5559.01	0.00	0.00	0.00	0.00	Start Build
6459.01	18.00	264.00	6444.28	-14.66	-139.44	2.00	13.93	Hold
11484.01	18.00	264.00	11223.34	-176.97	-1683.75	0.00	168.15	KOP, Start 8° DLS
11821.51	45.00	264.00	11508.45	-195.23	-1857.51	8.00	185.50	Begin Build & Turn
12896.20	90.00	179.70	11980.50	-912.14	-2323.43	8.00	899.96	Landing Point
22997.00	90.00	179.70	11980.50	-11012.80	-2269.90	0.00	11000.76	TD @ 22997.00' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Poker Lake Unit #464H SL	0.00	0.00	0.00	409234.60	635198.80	32° 7' 27.657 N	103° 53' 47.804 W
330' Crossing - 22867' MD	11980.50	-10882.80	-2270.59	398351.80	632928.21	32° 5' 40.048 N	103° 54' 14.711 W
Poker Lake Unit #464H FTP	11980.50	-910.80	-2322.90	408323.80	632875.90	32° 7' 18.736 N	103° 54' 14.858 W
Poker Lake Unit #464H LTP	11980.50	-10882.80	-2270.70	398351.80	632928.10	32° 5' 40.048 N	103° 54' 14.712 W
Poker Lake Unit #464H PBHL	11980.50	-11012.80	-2269.90	398221.80	632928.90	32° 5' 38.761 N	103° 54' 14.709 W





HALLIBURTON

TBD

XTO Energy Inc.

Eddy County, NM (NAD27) Poker Lake Unit
API#
Poker Lake Unit #464H

Wellbore #1
Plan: Plan #1

Sperry Drilling Services
Combo Report
01 September, 2017

Well Coordinates:	32° 07' 27.66" N 103° 53' 47.80" W	NAD 1927 (NADCON CONUS) New Mexico East 3001 409,234.60 N 635,198.80 E
Ground Level: 3,238.00 usft		
Local Coordinate Origin:		Centered on Well Poker Lake Unit #464H
Viewing Datum:		GE 3238 + 26.5 KB @ 3264.50usft (TBD)
TVDs to System:		N
North Reference:		**Grid**
Unit System:		API US Survey Feet

Version: 5000.1 Build: 81D

Report Version: Midcon Combo v1.11

HALLIBURTON

Plan Report for Poker Lake Unit #464H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
0.00	0.00	0.00	-3,264.50	0.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
100.00	0.00	0.00	-3,164.50	100.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
200.00	0.00	0.00	-3,064.50	200.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
300.00	0.00	0.00	-2,964.50	300.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
400.00	0.00	0.00	-2,864.50	400.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
500.00	0.00	0.00	-2,764.50	500.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
600.00	0.00	0.00	-2,664.50	600.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
700.00	0.00	0.00	-2,564.50	700.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
800.00	0.00	0.00	-2,464.50	800.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
900.00	0.00	0.00	-2,364.50	900.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,000.00	0.00	0.00	-2,264.50	1,000.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,100.00	0.00	0.00	-2,164.50	1,100.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,200.00	0.00	0.00	-2,064.50	1,200.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,300.00	0.00	0.00	-1,964.50	1,300.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,400.00	0.00	0.00	-1,864.50	1,400.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,500.00	0.00	0.00	-1,764.50	1,500.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,600.00	0.00	0.00	-1,664.50	1,600.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,700.00	0.00	0.00	-1,564.50	1,700.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,800.00	0.00	0.00	-1,464.50	1,800.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
1,900.00	0.00	0.00	-1,364.50	1,900.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,000.00	0.00	0.00	-1,264.50	2,000.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,100.00	0.00	0.00	-1,164.50	2,100.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,200.00	0.00	0.00	-1,064.50	2,200.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,300.00	0.00	0.00	-964.50	2,300.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,400.00	0.00	0.00	-864.50	2,400.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,500.00	0.00	0.00	-764.50	2,500.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,600.00	0.00	0.00	-664.50	2,600.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,700.00	0.00	0.00	-564.50	2,700.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,800.00	0.00	0.00	-464.50	2,800.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
2,900.00	0.00	0.00	-364.50	2,900.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,000.00	0.00	0.00	-264.50	3,000.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,100.00	0.00	0.00	-164.50	3,100.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,200.00	0.00	0.00	-64.50	3,200.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,300.00	0.00	0.00	35.50	3,300.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,400.00	0.00	0.00	135.50	3,400.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,500.00	0.00	0.00	235.50	3,500.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,600.00	0.00	0.00	335.50	3,600.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,700.00	0.00	0.00	435.50	3,700.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,800.00	0.00	0.00	535.50	3,800.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
3,900.00	0.00	0.00	635.50	3,900.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,000.00	0.00	0.00	735.50	4,000.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	

Plan Report for Poker Lake Unit #464H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
4,100.00	0.00	0.00	835.50	4,100.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,200.00	0.00	0.00	935.50	4,200.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,300.00	0.00	0.00	1,035.50	4,300.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,400.00	0.00	0.00	1,135.50	4,400.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,500.00	0.00	0.00	1,235.50	4,500.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,600.00	0.00	0.00	1,335.50	4,600.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,700.00	0.00	0.00	1,435.50	4,700.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,800.00	0.00	0.00	1,535.50	4,800.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
4,900.00	0.00	0.00	1,635.50	4,900.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,000.00	0.00	0.00	1,735.50	5,000.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,100.00	0.00	0.00	1,835.50	5,100.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,200.00	0.00	0.00	1,935.50	5,200.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,300.00	0.00	0.00	2,035.50	5,300.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,400.00	0.00	0.00	2,135.50	5,400.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,500.00	0.00	0.00	2,235.50	5,500.00	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,559.01	0.00	0.00	2,294.51	5,559.01	0.00 N	0.00 E	409,234.60	635,198.80	0.00	0.00	
5,600.00	0.82	264.00	2,335.50	5,600.00	0.03 S	0.29 W	409,234.57	635,198.51	2.00	0.03	
5,700.00	2.82	264.00	2,435.44	5,699.94	0.36 S	3.45 W	409,234.24	635,195.35	2.00	0.34	
5,800.00	4.82	264.00	2,535.22	5,799.72	1.06 S	10.07 W	409,233.54	635,188.73	2.00	1.01	
5,900.00	6.82	264.00	2,634.70	5,899.20	2.12 S	20.16 W	409,232.48	635,178.64	2.00	2.01	
6,000.00	8.82	264.00	2,733.76	5,998.26	3.54 S	33.69 W	409,231.06	635,165.11	2.00	3.36	
6,100.00	10.82	264.00	2,832.29	6,096.79	5.32 S	50.65 W	409,229.28	635,148.15	2.00	5.06	
6,200.00	12.82	264.00	2,930.17	6,194.67	7.46 S	71.02 W	409,227.14	635,127.78	2.00	7.09	
6,300.00	14.82	264.00	3,027.27	6,291.77	9.96 S	94.78 W	409,224.64	635,104.02	2.00	9.46	
6,400.00	16.82	264.00	3,123.47	6,387.97	12.81 S	121.89 W	409,221.79	635,076.91	2.00	12.17	
6,459.01	18.00	264.00	3,179.78	6,444.28	14.66 S	139.44 W	409,219.94	635,059.36	2.00	13.93	
6,500.00	18.00	264.00	3,218.76	6,483.26	15.98 S	152.04 W	409,218.62	635,046.76	0.00	15.18	
6,600.00	18.00	264.00	3,313.87	6,578.37	19.21 S	182.77 W	409,215.39	635,016.03	0.00	18.25	
6,700.00	18.00	264.00	3,408.97	6,673.47	22.44 S	213.51 W	409,212.16	634,985.29	0.00	21.32	
6,800.00	18.00	264.00	3,504.08	6,768.58	25.67 S	244.24 W	409,208.93	634,954.56	0.00	24.39	
6,900.00	18.00	264.00	3,599.18	6,863.68	28.90 S	274.97 W	409,205.70	634,923.83	0.00	27.46	
7,000.00	18.00	264.00	3,694.29	6,958.79	32.13 S	305.70 W	409,202.47	634,893.10	0.00	30.53	
7,100.00	18.00	264.00	3,789.40	7,053.90	35.36 S	336.44 W	409,199.24	634,862.36	0.00	33.60	
7,200.00	18.00	264.00	3,884.50	7,149.00	38.59 S	367.17 W	409,196.01	634,831.63	0.00	36.67	
7,300.00	18.00	264.00	3,979.61	7,244.11	41.82 S	397.90 W	409,192.78	634,800.90	0.00	39.74	
7,400.00	18.00	264.00	4,074.71	7,339.21	45.05 S	428.63 W	409,189.55	634,770.17	0.00	42.81	
7,500.00	18.00	264.00	4,169.82	7,434.32	48.28 S	459.37 W	409,186.32	634,739.43	0.00	45.88	
7,600.00	18.00	264.00	4,264.92	7,529.42	51.51 S	490.10 W	409,183.09	634,708.70	0.00	48.94	
7,700.00	18.00	264.00	4,360.03	7,624.53	54.74 S	520.83 W	409,179.86	634,677.97	0.00	52.01	
7,800.00	18.00	264.00	4,455.14	7,719.64	57.97 S	551.56 W	409,176.63	634,647.24	0.00	55.08	
7,900.00	18.00	264.00	4,550.24	7,814.74	61.20 S	582.30 W	409,173.40	634,616.50	0.00	58.15	

Plan Report for Poker Lake Unit #464H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
8,000.00	18.00	264.00	4,645.35	7,909.85	64.43 S	613.03 W	409,170.17	634,585.77	0.00	61.22	
8,100.00	18.00	264.00	4,740.45	8,004.95	67.66 S	643.76 W	409,166.94	634,555.04	0.00	64.29	
8,200.00	18.00	264.00	4,835.56	8,100.06	70.89 S	674.49 W	409,163.71	634,524.31	0.00	67.36	
8,300.00	18.00	264.00	4,930.66	8,195.16	74.12 S	705.23 W	409,160.48	634,493.57	0.00	70.43	
8,400.00	18.00	264.00	5,025.77	8,290.27	77.35 S	735.96 W	409,157.25	634,462.84	0.00	73.50	
8,500.00	18.00	264.00	5,120.88	8,385.38	80.58 S	766.69 W	409,154.02	634,432.11	0.00	76.57	
8,600.00	18.00	264.00	5,215.98	8,480.48	83.81 S	797.42 W	409,150.79	634,401.38	0.00	79.64	
8,700.00	18.00	264.00	5,311.09	8,575.59	87.04 S	828.16 W	409,147.56	634,370.64	0.00	82.71	
8,800.00	18.00	264.00	5,406.19	8,670.69	90.27 S	858.89 W	409,144.33	634,339.91	0.00	85.77	
8,900.00	18.00	264.00	5,501.30	8,765.80	93.50 S	889.62 W	409,141.10	634,309.18	0.00	88.84	
9,000.00	18.00	264.00	5,596.40	8,860.90	96.73 S	920.35 W	409,137.87	634,278.45	0.00	91.91	
9,100.00	18.00	264.00	5,691.51	8,956.01	99.96 S	951.08 W	409,134.64	634,247.72	0.00	94.98	
9,200.00	18.00	264.00	5,786.61	9,051.11	103.19 S	981.82 W	409,131.41	634,216.98	0.00	98.05	
9,300.00	18.00	264.00	5,881.72	9,146.22	106.42 S	1,012.55 W	409,128.18	634,186.25	0.00	101.12	
9,400.00	18.00	264.00	5,976.83	9,241.33	109.65 S	1,043.28 W	409,124.95	634,155.52	0.00	104.19	
9,500.00	18.00	264.00	6,071.93	9,336.43	112.88 S	1,074.01 W	409,121.72	634,124.79	0.00	107.26	
9,600.00	18.00	264.00	6,167.04	9,431.54	116.11 S	1,104.75 W	409,118.49	634,094.05	0.00	110.33	
9,700.00	18.00	264.00	6,262.14	9,526.64	119.34 S	1,135.48 W	409,115.26	634,063.32	0.00	113.40	
9,800.00	18.00	264.00	6,357.25	9,621.75	122.57 S	1,166.21 W	409,112.03	634,032.59	0.00	116.47	
9,900.00	18.00	264.00	6,452.35	9,716.85	125.80 S	1,196.94 W	409,108.80	634,001.86	0.00	119.54	
10,000.00	18.00	264.00	6,547.46	9,811.96	129.03 S	1,227.68 W	409,105.57	633,971.12	0.00	122.60	
10,100.00	18.00	264.00	6,642.57	9,907.07	132.26 S	1,258.41 W	409,102.34	633,940.39	0.00	125.67	
10,200.00	18.00	264.00	6,737.67	10,002.17	135.49 S	1,289.14 W	409,099.11	633,909.66	0.00	128.74	
10,300.00	18.00	264.00	6,832.78	10,097.28	138.72 S	1,319.87 W	409,095.88	633,878.93	0.00	131.81	
10,400.00	18.00	264.00	6,927.88	10,192.38	141.95 S	1,350.61 W	409,092.65	633,848.19	0.00	134.88	
10,500.00	18.00	264.00	7,022.99	10,287.49	145.18 S	1,381.34 W	409,089.42	633,817.46	0.00	137.95	
10,600.00	18.00	264.00	7,118.09	10,382.59	148.41 S	1,412.07 W	409,086.19	633,786.73	0.00	141.02	
10,700.00	18.00	264.00	7,213.20	10,477.70	151.64 S	1,442.80 W	409,082.96	633,756.00	0.00	144.09	
10,800.00	18.00	264.00	7,308.31	10,572.81	154.87 S	1,473.54 W	409,079.73	633,725.26	0.00	147.16	
10,900.00	18.00	264.00	7,403.41	10,667.91	158.10 S	1,504.27 W	409,076.50	633,694.53	0.00	150.23	
11,000.00	18.00	264.00	7,498.52	10,763.02	161.34 S	1,535.00 W	409,073.26	633,663.80	0.00	153.30	
11,100.00	18.00	264.00	7,593.62	10,858.12	164.57 S	1,565.73 W	409,070.03	633,633.07	0.00	156.36	
11,200.00	18.00	264.00	7,688.73	10,953.23	167.80 S	1,596.47 W	409,066.80	633,602.33	0.00	159.43	
11,300.00	18.00	264.00	7,783.83	11,048.33	171.03 S	1,627.20 W	409,063.57	633,571.60	0.00	162.50	
11,400.00	18.00	264.00	7,878.94	11,143.44	174.26 S	1,657.93 W	409,060.34	633,540.87	0.00	165.57	
11,484.01	18.00	264.00	7,958.84	11,223.34	176.97 S	1,683.75 W	409,057.63	633,515.05	0.00	168.15	
11,500.00	19.28	264.00	7,973.99	11,238.49	177.50 S	1,688.83 W	409,057.10	633,509.97	8.00	168.66	
11,550.00	23.28	264.00	8,020.57	11,285.07	179.40 S	1,706.87 W	409,055.20	633,491.93	8.00	170.46	
11,600.00	27.28	264.00	8,065.77	11,330.27	181.63 S	1,728.10 W	409,052.97	633,470.70	8.00	172.58	
11,650.00	31.28	264.00	8,109.38	11,373.88	184.19 S	1,752.42 W	409,050.41	633,446.38	8.00	175.01	
11,700.00	35.28	264.00	8,151.17	11,415.67	187.05 S	1,779.70 W	409,047.55	633,419.10	8.00	177.73	

Plan Report for Poker Lake Unit #464H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
11,750.00	39.28	264.00	8,190.94	11,455.44	190.22 S	1,809.81 W	409,044.38	633,388.99	8.00	180.74	
11,800.00	43.28	264.00	8,228.51	11,493.01	193.67 S	1,842.61 W	409,040.93	633,356.19	8.00	184.02	
11,821.51	45.00	264.00	8,243.95	11,508.45	195.23 S	1,857.51 W	409,039.37	633,341.29	8.00	185.50	
11,850.00	45.21	260.80	8,264.06	11,528.56	197.90 S	1,877.51 W	409,036.70	633,321.29	8.00	188.07	
11,900.00	45.78	255.24	8,299.12	11,563.62	205.31 S	1,912.36 W	409,029.29	633,286.44	8.00	195.29	
11,950.00	46.62	249.82	8,333.75	11,598.25	216.14 S	1,946.75 W	409,018.46	633,252.05	8.00	205.95	
12,000.00	47.70	244.57	8,367.76	11,632.26	230.35 S	1,980.52 W	409,004.25	633,218.28	8.00	219.98	
12,050.00	49.02	239.52	8,400.99	11,665.49	247.88 S	2,013.50 W	408,986.72	633,185.30	8.00	237.33	
12,100.00	50.55	234.67	8,433.29	11,697.79	268.62 S	2,045.52 W	408,965.98	633,153.28	8.00	257.91	
12,150.00	52.27	230.05	8,464.48	11,728.98	292.49 S	2,076.44 W	408,942.11	633,122.36	8.00	281.61	
12,200.00	54.16	225.65	8,494.44	11,758.94	319.36 S	2,106.10 W	408,915.24	633,092.70	8.00	308.33	
12,250.00	56.20	221.46	8,522.99	11,787.49	349.11 S	2,134.36 W	408,885.49	633,064.44	8.00	337.93	
12,300.00	58.38	217.47	8,550.02	11,814.52	381.58 S	2,161.08 W	408,853.02	633,037.72	8.00	370.26	
12,350.00	60.68	213.67	8,575.38	11,839.88	416.63 S	2,186.13 W	408,817.97	633,012.67	8.00	405.18	
12,400.00	63.08	210.05	8,598.95	11,863.45	454.08 S	2,209.39 W	408,780.52	632,989.41	8.00	442.51	
12,450.00	65.57	206.57	8,620.62	11,885.12	493.75 S	2,230.74 W	408,740.85	632,968.06	8.00	482.07	
12,500.00	68.13	203.23	8,640.27	11,904.77	535.45 S	2,250.08 W	408,699.15	632,948.72	8.00	523.66	
12,550.00	70.76	200.01	8,657.83	11,922.33	578.96 S	2,267.32 W	408,655.64	632,931.48	8.00	567.08	
12,600.00	73.45	196.90	8,673.19	11,937.69	624.09 S	2,282.37 W	408,610.51	632,916.43	8.00	612.13	
12,650.00	76.18	193.87	8,686.29	11,950.79	670.61 S	2,295.16 W	408,563.99	632,903.64	8.00	658.58	
12,700.00	78.94	190.91	8,697.07	11,961.57	718.29 S	2,305.62 W	408,516.31	632,893.18	8.00	706.21	
12,750.00	81.74	188.00	8,705.46	11,969.96	766.90 S	2,313.71 W	408,467.70	632,885.09	8.00	754.77	
12,800.00	84.55	185.14	8,711.42	11,975.92	816.21 S	2,319.39 W	408,418.39	632,879.41	8.00	804.05	
12,850.00	87.38	182.31	8,714.94	11,979.44	865.97 S	2,322.63 W	408,368.63	632,876.17	8.00	853.79	
12,896.20	90.00	179.70	8,716.00	11,980.50	912.14 S	2,323.43 W	408,322.46	632,875.37	8.00	899.96	
12,900.00	90.00	179.70	8,716.00	11,980.50	915.94 S	2,323.41 W	408,318.66	632,875.39	0.00	903.76	
13,000.00	90.00	179.70	8,716.00	11,980.50	1,015.94 S	2,322.88 W	408,218.66	632,875.92	0.00	1,003.76	
13,100.00	90.00	179.70	8,716.00	11,980.50	1,115.94 S	2,322.35 W	408,118.66	632,876.45	0.00	1,103.76	
13,200.00	90.00	179.70	8,716.00	11,980.50	1,215.94 S	2,321.82 W	408,018.66	632,876.98	0.00	1,203.76	
13,300.00	90.00	179.70	8,716.00	11,980.50	1,315.93 S	2,321.29 W	407,918.67	632,877.51	0.00	1,303.76	
13,400.00	90.00	179.70	8,716.00	11,980.50	1,415.93 S	2,320.76 W	407,818.67	632,878.04	0.00	1,403.76	
13,500.00	90.00	179.70	8,716.00	11,980.50	1,515.93 S	2,320.23 W	407,718.67	632,878.57	0.00	1,503.76	
13,600.00	90.00	179.70	8,716.00	11,980.50	1,615.93 S	2,319.70 W	407,618.67	632,879.10	0.00	1,603.76	
13,700.00	90.00	179.70	8,716.00	11,980.50	1,715.93 S	2,319.17 W	407,518.67	632,879.63	0.00	1,703.76	
13,800.00	90.00	179.70	8,716.00	11,980.50	1,815.93 S	2,318.64 W	407,418.67	632,880.16	0.00	1,803.76	
13,900.00	90.00	179.70	8,716.00	11,980.50	1,915.93 S	2,318.11 W	407,318.67	632,880.69	0.00	1,903.76	
14,000.00	90.00	179.70	8,716.00	11,980.50	2,015.92 S	2,317.58 W	407,218.68	632,881.22	0.00	2,003.76	
14,100.00	90.00	179.70	8,716.00	11,980.50	2,115.92 S	2,317.05 W	407,118.68	632,881.75	0.00	2,103.76	
14,200.00	90.00	179.70	8,716.00	11,980.50	2,215.92 S	2,316.52 W	407,018.68	632,882.28	0.00	2,203.76	
14,300.00	90.00	179.70	8,716.00	11,980.50	2,315.92 S	2,315.99 W	406,918.68	632,882.81	0.00	2,303.76	
14,400.00	90.00	179.70	8,716.00	11,980.50	2,415.92 S	2,315.46 W	406,818.68	632,883.34	0.00	2,403.76	

Plan Report for Poker Lake Unit #464H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
14,500.00	90.00	179.70	8,716.00	11,980.50	2,515.92 S	2,314.93 W	406,718.68	632,883.87	0.00	2,503.76	
14,600.00	90.00	179.70	8,716.00	11,980.50	2,615.92 S	2,314.40 W	406,618.68	632,884.40	0.00	2,603.76	
14,700.00	90.00	179.70	8,716.00	11,980.50	2,715.91 S	2,313.87 W	406,518.69	632,884.93	0.00	2,703.76	
14,800.00	90.00	179.70	8,716.00	11,980.50	2,815.91 S	2,313.34 W	406,418.69	632,885.46	0.00	2,803.76	
14,900.00	90.00	179.70	8,716.00	11,980.50	2,915.91 S	2,312.81 W	406,318.69	632,885.99	0.00	2,903.76	
15,000.00	90.00	179.70	8,716.00	11,980.50	3,015.91 S	2,312.28 W	406,218.69	632,886.52	0.00	3,003.76	
15,100.00	90.00	179.70	8,716.00	11,980.50	3,115.91 S	2,311.75 W	406,118.69	632,887.05	0.00	3,103.76	
15,200.00	90.00	179.70	8,716.00	11,980.50	3,215.91 S	2,311.22 W	406,018.69	632,887.58	0.00	3,203.76	
15,300.00	90.00	179.70	8,716.00	11,980.50	3,315.91 S	2,310.69 W	405,918.69	632,888.11	0.00	3,303.76	
15,400.00	90.00	179.70	8,716.00	11,980.50	3,415.90 S	2,310.16 W	405,818.70	632,888.64	0.00	3,403.76	
15,500.00	90.00	179.70	8,716.00	11,980.50	3,515.90 S	2,309.63 W	405,718.70	632,889.17	0.00	3,503.76	
15,600.00	90.00	179.70	8,716.00	11,980.50	3,615.90 S	2,309.10 W	405,618.70	632,889.70	0.00	3,603.76	
15,700.00	90.00	179.70	8,716.00	11,980.50	3,715.90 S	2,308.57 W	405,518.70	632,890.23	0.00	3,703.76	
15,800.00	90.00	179.70	8,716.00	11,980.50	3,815.90 S	2,308.04 W	405,418.70	632,890.76	0.00	3,803.76	
15,900.00	90.00	179.70	8,716.00	11,980.50	3,915.90 S	2,307.51 W	405,318.70	632,891.29	0.00	3,903.76	
16,000.00	90.00	179.70	8,716.00	11,980.50	4,015.90 S	2,306.98 W	405,218.70	632,891.82	0.00	4,003.76	
16,100.00	90.00	179.70	8,716.00	11,980.50	4,115.89 S	2,306.45 W	405,118.71	632,892.35	0.00	4,103.76	
16,200.00	90.00	179.70	8,716.00	11,980.50	4,215.89 S	2,305.92 W	405,018.71	632,892.88	0.00	4,203.76	
16,300.00	90.00	179.70	8,716.00	11,980.50	4,315.89 S	2,305.39 W	404,918.71	632,893.41	0.00	4,303.76	
16,400.00	90.00	179.70	8,716.00	11,980.50	4,415.89 S	2,304.86 W	404,818.71	632,893.94	0.00	4,403.76	
16,500.00	90.00	179.70	8,716.00	11,980.50	4,515.89 S	2,304.33 W	404,718.71	632,894.47	0.00	4,503.76	
16,600.00	90.00	179.70	8,716.00	11,980.50	4,615.89 S	2,303.80 W	404,618.71	632,895.00	0.00	4,603.76	
16,700.00	90.00	179.70	8,716.00	11,980.50	4,715.89 S	2,303.27 W	404,518.71	632,895.53	0.00	4,703.76	
16,800.00	90.00	179.70	8,716.00	11,980.50	4,815.89 S	2,302.74 W	404,418.71	632,896.06	0.00	4,803.76	
16,900.00	90.00	179.70	8,716.00	11,980.50	4,915.88 S	2,302.21 W	404,318.72	632,896.59	0.00	4,903.76	
17,000.00	90.00	179.70	8,716.00	11,980.50	5,015.88 S	2,301.68 W	404,218.72	632,897.12	0.00	5,003.76	
17,100.00	90.00	179.70	8,716.00	11,980.50	5,115.88 S	2,301.15 W	404,118.72	632,897.65	0.00	5,103.76	
17,200.00	90.00	179.70	8,716.00	11,980.50	5,215.88 S	2,300.62 W	404,018.72	632,898.18	0.00	5,203.76	
17,300.00	90.00	179.70	8,716.00	11,980.50	5,315.88 S	2,300.09 W	403,918.72	632,898.71	0.00	5,303.76	
17,400.00	90.00	179.70	8,716.00	11,980.50	5,415.88 S	2,299.56 W	403,818.72	632,899.24	0.00	5,403.76	
17,500.00	90.00	179.70	8,716.00	11,980.50	5,515.88 S	2,299.03 W	403,718.72	632,899.77	0.00	5,503.76	
17,600.00	90.00	179.70	8,716.00	11,980.50	5,615.87 S	2,298.50 W	403,618.73	632,900.30	0.00	5,603.76	
17,700.00	90.00	179.70	8,716.00	11,980.50	5,715.87 S	2,297.97 W	403,518.73	632,900.83	0.00	5,703.76	
17,800.00	90.00	179.70	8,716.00	11,980.50	5,815.87 S	2,297.44 W	403,418.73	632,901.36	0.00	5,803.76	
17,900.00	90.00	179.70	8,716.00	11,980.50	5,915.87 S	2,296.91 W	403,318.73	632,901.89	0.00	5,903.76	
18,000.00	90.00	179.70	8,716.00	11,980.50	6,015.87 S	2,296.38 W	403,218.73	632,902.42	0.00	6,003.76	
18,100.00	90.00	179.70	8,716.00	11,980.50	6,115.87 S	2,295.85 W	403,118.73	632,902.95	0.00	6,103.76	
18,200.00	90.00	179.70	8,716.00	11,980.50	6,215.87 S	2,295.32 W	403,018.73	632,903.48	0.00	6,203.76	
18,300.00	90.00	179.70	8,716.00	11,980.50	6,315.86 S	2,294.79 W	402,918.74	632,904.01	0.00	6,303.76	
18,400.00	90.00	179.70	8,716.00	11,980.50	6,415.86 S	2,294.26 W	402,818.74	632,904.54	0.00	6,403.76	
18,500.00	90.00	179.70	8,716.00	11,980.50	6,515.86 S	2,293.73 W	402,718.74	632,905.07	0.00	6,503.76	

Plan Report for Poker Lake Unit #464H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
18,600.00	90.00	179.70	8,716.00	11,980.50	6,615.86 S	2,293.20 W	402,618.74	632,905.60	0.00	6,603.76	
18,700.00	90.00	179.70	8,716.00	11,980.50	6,715.86 S	2,292.67 W	402,518.74	632,906.13	0.00	6,703.76	
18,800.00	90.00	179.70	8,716.00	11,980.50	6,815.86 S	2,292.14 W	402,418.74	632,906.66	0.00	6,803.76	
18,900.00	90.00	179.70	8,716.00	11,980.50	6,915.86 S	2,291.61 W	402,318.74	632,907.19	0.00	6,903.76	
19,000.00	90.00	179.70	8,716.00	11,980.50	7,015.85 S	2,291.08 W	402,218.75	632,907.72	0.00	7,003.76	
19,100.00	90.00	179.70	8,716.00	11,980.50	7,115.85 S	2,290.55 W	402,118.75	632,908.25	0.00	7,103.76	
19,200.00	90.00	179.70	8,716.00	11,980.50	7,215.85 S	2,290.02 W	402,018.75	632,908.78	0.00	7,203.76	
19,300.00	90.00	179.70	8,716.00	11,980.50	7,315.85 S	2,289.49 W	401,918.75	632,909.31	0.00	7,303.76	
19,400.00	90.00	179.70	8,716.00	11,980.50	7,415.85 S	2,288.96 W	401,818.75	632,909.84	0.00	7,403.76	
19,500.00	90.00	179.70	8,716.00	11,980.50	7,515.85 S	2,288.43 W	401,718.75	632,910.37	0.00	7,503.76	
19,600.00	90.00	179.70	8,716.00	11,980.50	7,615.85 S	2,287.90 W	401,618.75	632,910.90	0.00	7,603.76	
19,700.00	90.00	179.70	8,716.00	11,980.50	7,715.84 S	2,287.37 W	401,518.76	632,911.43	0.00	7,703.76	
19,800.00	90.00	179.70	8,716.00	11,980.50	7,815.84 S	2,286.84 W	401,418.76	632,911.96	0.00	7,803.76	
19,900.00	90.00	179.70	8,716.00	11,980.50	7,915.84 S	2,286.31 W	401,318.76	632,912.49	0.00	7,903.76	
20,000.00	90.00	179.70	8,716.00	11,980.50	8,015.84 S	2,285.78 W	401,218.76	632,913.02	0.00	8,003.76	
20,100.00	90.00	179.70	8,716.00	11,980.50	8,115.84 S	2,285.25 W	401,118.76	632,913.55	0.00	8,103.76	
20,200.00	90.00	179.70	8,716.00	11,980.50	8,215.84 S	2,284.72 W	401,018.76	632,914.08	0.00	8,203.76	
20,300.00	90.00	179.70	8,716.00	11,980.50	8,315.84 S	2,284.19 W	400,918.76	632,914.61	0.00	8,303.76	
20,400.00	90.00	179.70	8,716.00	11,980.50	8,415.83 S	2,283.66 W	400,818.77	632,915.14	0.00	8,403.76	
20,500.00	90.00	179.70	8,716.00	11,980.50	8,515.83 S	2,283.13 W	400,718.77	632,915.67	0.00	8,503.76	
20,600.00	90.00	179.70	8,716.00	11,980.50	8,615.83 S	2,282.60 W	400,618.77	632,916.20	0.00	8,603.76	
20,700.00	90.00	179.70	8,716.00	11,980.50	8,715.83 S	2,282.07 W	400,518.77	632,916.73	0.00	8,703.76	
20,800.00	90.00	179.70	8,716.00	11,980.50	8,815.83 S	2,281.54 W	400,418.77	632,917.26	0.00	8,803.76	
20,900.00	90.00	179.70	8,716.00	11,980.50	8,915.83 S	2,281.01 W	400,318.77	632,917.79	0.00	8,903.76	
21,000.00	90.00	179.70	8,716.00	11,980.50	9,015.83 S	2,280.48 W	400,218.77	632,918.32	0.00	9,003.76	
21,100.00	90.00	179.70	8,716.00	11,980.50	9,115.82 S	2,279.95 W	400,118.78	632,918.85	0.00	9,103.76	
21,200.00	90.00	179.70	8,716.00	11,980.50	9,215.82 S	2,279.42 W	400,018.78	632,919.38	0.00	9,203.76	
21,300.00	90.00	179.70	8,716.00	11,980.50	9,315.82 S	2,278.89 W	399,918.78	632,919.91	0.00	9,303.76	
21,400.00	90.00	179.70	8,716.00	11,980.50	9,415.82 S	2,278.36 W	399,818.78	632,920.44	0.00	9,403.76	
21,500.00	90.00	179.70	8,716.00	11,980.50	9,515.82 S	2,277.83 W	399,718.78	632,920.97	0.00	9,503.76	
21,600.00	90.00	179.70	8,716.00	11,980.50	9,615.82 S	2,277.30 W	399,618.78	632,921.50	0.00	9,603.76	
21,700.00	90.00	179.70	8,716.00	11,980.50	9,715.82 S	2,276.77 W	399,518.78	632,922.03	0.00	9,703.76	
21,800.00	90.00	179.70	8,716.00	11,980.50	9,815.81 S	2,276.24 W	399,418.79	632,922.56	0.00	9,803.76	
21,900.00	90.00	179.70	8,716.00	11,980.50	9,915.81 S	2,275.71 W	399,318.79	632,923.09	0.00	9,903.76	
22,000.00	90.00	179.70	8,716.00	11,980.50	10,015.81 S	2,275.18 W	399,218.79	632,923.62	0.00	10,003.76	
22,100.00	90.00	179.70	8,716.00	11,980.50	10,115.81 S	2,274.65 W	399,118.79	632,924.15	0.00	10,103.76	
22,200.00	90.00	179.70	8,716.00	11,980.50	10,215.81 S	2,274.12 W	399,018.79	632,924.68	0.00	10,203.76	
22,300.00	90.00	179.70	8,716.00	11,980.50	10,315.81 S	2,273.59 W	398,918.79	632,925.21	0.00	10,303.76	
22,400.00	90.00	179.70	8,716.00	11,980.50	10,415.81 S	2,273.06 W	398,818.79	632,925.74	0.00	10,403.76	
22,500.00	90.00	179.70	8,716.00	11,980.50	10,515.81 S	2,272.53 W	398,718.79	632,926.27	0.00	10,503.76	
22,600.00	90.00	179.70	8,716.00	11,980.50	10,615.80 S	2,272.00 W	398,618.80	632,926.80	0.00	10,603.76	

Plan Report for Poker Lake Unit #464H - Plan #1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	TVD below System (usft)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Comments
22,700.00	90.00	179.70	8,716.00	11,980.50	10,715.80 S	2,271.47 W	398,518.80	632,927.33	0.00	10,703.76	
22,800.00	90.00	179.70	8,716.00	11,980.50	10,815.80 S	2,270.94 W	398,418.80	632,927.86	0.00	10,803.76	
22,900.00	90.00	179.70	8,716.00	11,980.50	10,915.80 S	2,270.41 W	398,318.80	632,928.39	0.00	10,903.76	
22,997.00	90.00	179.70	8,716.00	11,980.50	11,012.80 S	2,269.90 W	398,221.80	632,928.90	0.00	11,000.76	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,559.01	5,559.01	0.00	0.00	Start Build
6,459.01	6,444.28	-14.66	-139.44	Hold
11,484.01	11,223.34	-176.97	-1,683.75	KOP, Start 8° DLS
11,821.51	11,508.45	-195.23	-1,857.51	Begin Build & Turn
12,896.20	11,980.50	-912.14	-2,323.43	Landing Point
22,997.00	11,980.50	-11,012.80	-2,269.90	TD @ 22997.00' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	179.70	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	22,996.94	Plan #1	Blind

Plan Report for Poker Lake Unit #464H - Plan #1

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
861.50	861.50	-2,403.00	Rustler		0.0000	179.90
1,109.50	1,109.50	-2,155.00	Top Salt		0.0000	179.90
3,758.50	3,758.50	494.00	Base Salt		0.0000	179.90
3,788.50	3,788.50	524.00	Delaware		0.0000	179.90
7,650.55	7,577.50	4,313.00	Bone Spring		0.0000	179.90
8,637.87	8,516.50	5,252.00	1st Bone Spring Ss		0.0000	179.90
9,547.39	9,381.50	6,117.00	2nd Bone Spring Ss		0.0000	179.90
9,840.75	9,660.50	6,396.00	3rd Bone Spring Lm		0.0000	179.90
10,634.60	10,415.50	7,151.00	3rd Bone Spring Ss		0.0000	179.90
11,076.21	10,835.50	7,571.00	Wolfcamp		0.0000	179.90
11,230.78	10,982.50	7,718.00	Wolfcamp A		0.0000	179.90
12,582.27	11,932.50	8,668.00	Wolfcamp E		0.0000	179.90
12,896.20	11,980.50	8,716.00	LP		0.0000	179.90

North Reference Sheet for Poker Lake Unit - Poker Lake Unit #464H - Wellbore #1

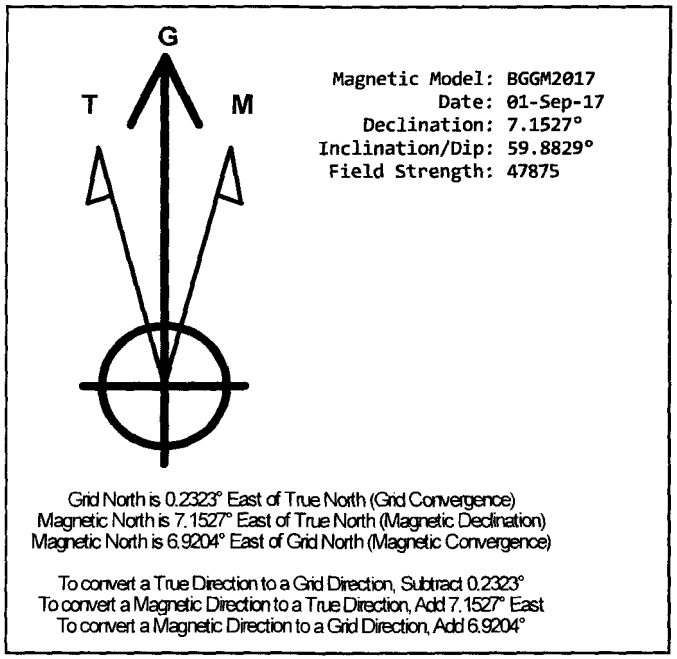
All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.
Vertical Depths are relative to GE 3238 + 26.5 KB @ 3264.50usft (TBD). Northing and Easting are relative to Poker Lake Unit #464H

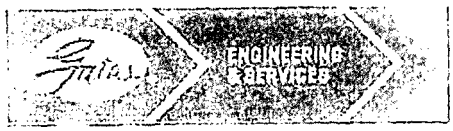
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866
Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is 104° 20' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°
False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99993003

Grid Coordinates of Well: 409,234.60 usft N, 635,198.80 usft E
Geographical Coordinates of Well: 32° 07' 27.66" N, 103° 53' 47.80" W
Grid Convergence at Surface is: 0.2323°

Based upon Minimum Curvature type calculations, at a Measured Depth of 22,997.00usft
the Bottom Hole Displacement is 11,244.30usft in the Direction of 191.65° (Grid).

Magnetic Convergence at surface is: -6.9200° (1 September 2017, , BGGM2017)





GATES E & S NORTH AMERICA, INC
DU-TEX
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer	AUSTIN DISTRIBUTING	Test Date	6/8/2014
Customer Ref.	PENDING	Hose Serial No.	D-060814-1
Invoice No.	201709	Created By	NORMA

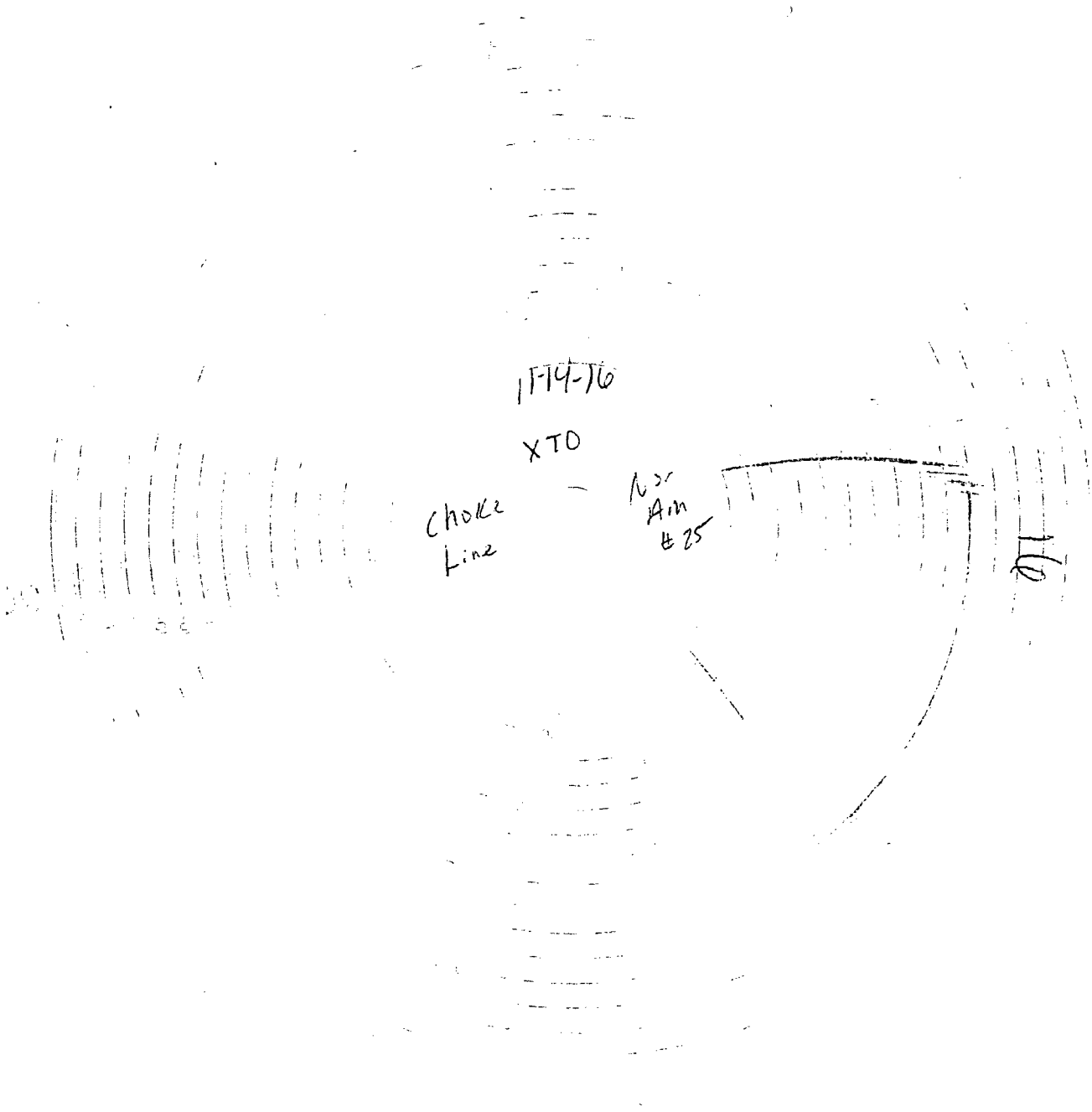
Product Description:	FD3.042.0R41/16.5KFLGE/E LE

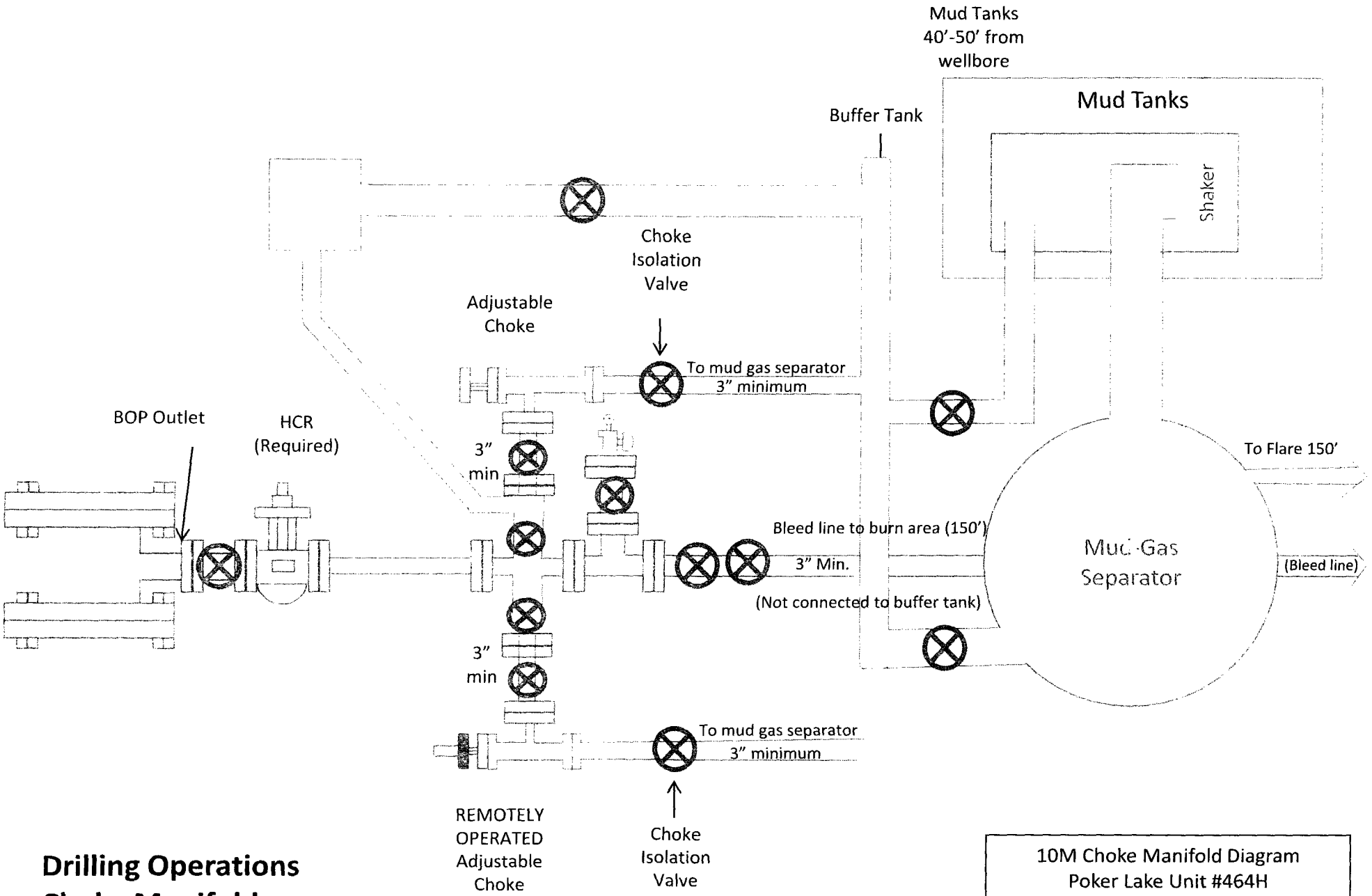
End Fitting 1	4 1/16 in.5K FLG	End Fitting 2	4 1/16 in.5K FLG
Gates Part No.	4774-6001	Assembly Code	L33090011513D-060814-1
Working Pressure	5,000 PSI	Test Pressure	7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Technical Supervisor:	PRODUCTION
Date:	6/8/2014	Date:	6/8/2014
Signature:		Signature:	

Form PTC 01 Rev.0 2


1-14-16
XTO
Choke
Line
Nor
Aim
#25



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
Poker Lake Unit #464H
XTO Energy, Inc.

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO, L.P.
LEASE NO.:	NMLC-064894A
WELL NAME & NO.:	Poker Lake Unit 464H
SURFACE HOLE FOOTAGE:	0550' FSL & 0715' FEL
BOTTOM HOLE FOOTAGE	0200' FSL & 2310' FWL Sec. 29, T. 25 S., R 30 E.
LOCATION:	Section 17, T. 25 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

All previous COAs still apply except for the following:

A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:
After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Delaware.
Possibility of lost circulation in the Red beds, Rustler, and Delaware.
Abnormal pressure might be encountered upon entering third Bone Spring and subsequent formations.

1. The **13-3/8** inch surface casing shall be set at approximately **1080** feet **(in a competent bed below the Magenta Dolomite, which is a Member of the Rustler,**

and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.

a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing, is:

☒ Cement to surface. If cement does not circulate see A.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

3. The minimum required fill of cement behind the **7** inch production casing is:

☒ Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification.

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the **4 1/2** inch production liner is:

☒ Cement should tie-back at least **100** feet into previous casing. Operator shall provide method of verification. **Excess calculates to 9% - additional cement will be required.**

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.

2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9 5/8** inch intermediate casing shoe shall be **5000 (5M)** psi. **5M/10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7** inch production casing shoe shall be **10,000 (10M)** psi. **5M/10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

d. The results of the test shall be reported to the appropriate BLM office.

e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**

f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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