

OCD HOBBS

FORM APPROVED
OMB No 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 15 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

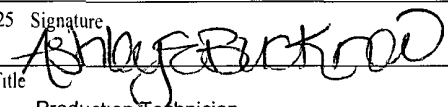
RECEIVED

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM-127446	
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator GMT Exploration Company, LLC		7. If Unit or CA Agreement, Name and No.	
3a. Address 1560 Broadway Suite 2000 Denver, CO 80202		8. Lease Name and Well No. Pryor Federal-State COM 4H-389997	
3b. Phone No. (include area code) 303-586-9280		9. API Well No. 30-025-40862	
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 20'FNL & 430'FWL, Lat. 32.340856, Long. 103.430922 At proposed prod. zone 330'FSL & 430'FWL, Lat. 32.424525, Long. 103.430913		10. Field and Pool, or Exploratory Ojo Chiso; Bone Spring, South 972937	
14. Distance in miles and direction from nearest town or post office* 16 Miles East of Eunice		12. County or Parish Lea	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 20'	16. No. of acres in lease 320.44	17. Spacing Unit dedicated to this well 160.19	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed Depth 13664 (MD) 8945 (TVD)	20. BLM/BIA Bond No. on file RLB004473 NMB000886	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3378 GL	22. Approximate date work will start* 11/01/2012	23. Estimated duration 30 Days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must 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 must be filed with the appropriate Forest Service Office) | 6. Such other site specific information and/or plans as may be required by the BLM |

25. Signature 	Name (Printed/Typed) Ashley Buckner	Date 09/14/2012
Title Production Technician		
Approved by (Signature) Is/ Don Peterson	Name (Printed/Typed)	Date NOV 13 2012
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.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

NOV 19 2012

GMT Exploration Company LLC
Pryor Federal-State COM 4H
20' FNL 430' FWL Section 1, T23S, R34E
Lea County, New Mexico

DRILLING PROGRAM

Drilling operations for this well will be conducted in accordance with the Onshore Oil and Gas Order #1, 2, 6 as provided for in 43 CFR 3164.1. This includes the well control equipment and its testing, the mud system and associated equipment, and the casing and cementing.

1. Estimated tops of important geologic markers (Measured Depth):

Ground Level	3378'
Fresh Water	600'
Rustler	1,725'
Salt Top	1,900'
Salt Base	3,735'
Yates	4,375'
Delaware Bell Canyon	5,375'
Delaware Cherry Canyon	6,200'
Delaware Brushy Canyon	7,235'
Bone Spring Lime	8,540'
Avalon Shale Top	8,725'
Actual Target	8,945'
Avalon Shale Base	8,970'

2. Estimated depths of anticipated water, oil, gas or minerals:

<u>Mineral</u>	<u>Formation</u>	<u>Depth (Measured Depth)</u>
Water		600'
Natural Gas/Oil	Delaware Bell Canyon	5,375'
Natural Gas/Oil	Delaware Cherry Canyon	6,200'
Natural Gas/Oil	Delaware Brushy Canyon	7,235'
Natural Gas/Oil	Bone Spring Lime	8,540'
Natural Gas/Oil	Avalon Shale Top	8,725'
Actual Target		8,945'
Natural Gas/Oil	Avalon Shale Base	8,970'

Fresh water: Fresh water aquifers will be protected with surface casing set at ~~1725'~~ ^{1865' See ECA}. All potentially productive usable water, hydrocarbons, and other mineral zones will be protected with casing and cement.

3. Minimum specifications for pressure control: *Test pressures on schematics.*

annular The BOP and related equipment will meet or exceed the requirements of a 5M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematics. GMT will utilize a gas diverter system to drill surface hole of 17 1/2" to 1750' TVD. At this point, a 13 5/8", 3000psi working pressure BOP ~~stack~~ ^{annular} will be installed to drill intermediate hole size of 12 1/4" to a depth of ~5400' TVD. Finally, an 11", 5000psi rated BOP assembly will be installed to drill our producing section to our target vertical depth of ~9000' TVD and ~13,664' TMD.

- A. Casinghead: 14 3/4" x 13 3/8" x 5000 psi WP
Tubinghead: 7-1/16" - 5000 psi WP x 4 1/16" - 10,000 psi WP

- B. Minimum Specified Pressure Control Equipment

- Annular preventer
- One Pipe ram, One blind ram
- Drilling spool, or blowout preventer with 2 side outlets. Choke side will be a 3-inch minimum diameter, kill line shall be at least 2-inch diameter
- 3 inch diameter choke line
- 2 – 3 inch choke line valves
- 2 inch Kill line
- 2 chokes with 1 remotely controlled from rig floor (see Figure 2)
- 2 – 2 inch kill line valves and a check valve
- Upper kelly cock valve with handle available
- When the expected pressures approach working pressure of the system, 1 remote kill line tested to stack pressure (which shall run to the outer edge of the substructure and be unobstructed)
- Lower kelly cock valve with handle available
- Safety valve(s) and subs to fit all drill string connections in use
- Inside BOP or float sub available
- Pressure gauge on choke manifold
- All BOPE connections subjected to well pressure shall be flanged, welded, or clamped
- Fill-up line above the uppermost preventer.

C. Auxiliary Equipment

- Audio and visual mud monitoring equipment shall be placed to detect volume changes indicating loss or gain of circulating fluid volume. (OOS 1, III.C.2)
- Gas Buster will be used below 6,000'.
- Upper and lower kelly cocks with handles, safety valve and subs to fit all drill string connections and pressure gauge on choke manifold.

D. BOP Testing procedures:

- The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum:
 - a. when initially installed
 - b. whenever any seal subject to test pressure is broken
 - c. following related repairs
 - d. at 30 day intervals
 - e. Checked daily as to mechanical operating conditions.
- The ram type preventer(s) shall be tested to the approved BOP stack working pressure when a test plug is used. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing.
- The annular type preventer(s) shall be tested to 50% of the approved BOP stack working pressure. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer.
- A Sundry Notice (Form 3160-5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test.
- GMT has engaged Sierra Engineering to perform the BOP tests. We will be sure to invite the BLM to witness them.

A remote accumulator will be used. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM supervised BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

4. Supplementary Information:

Any required operational changes in the casing and cement design specified below will be submitted to the BLM Authorized Officer for approval **prior** to running casing and cementing.

A: Proposed Casing Program:

PURPOSE	INTERVAL	HOLE SIZE	CASING SIZE	WT/FT (lbs/ft)	GRADE	COND	THREAD & Coupling
CONDUCTOR	0-80'	26"	20"	94	H-40	NEW	ST&C
SURFACE	0-1,750'	17 1/2"	13 3/8"	54.5 48	H-40 J-55	NEW	ST&C
INTERMEDIATE	0 - 5,400	12 1/4"	8 5/8"	36	J-55	NEW	LT&C
PRODUCTION	0-13,664'	7 7/8"	5 1/2"	17	L-80	NEW	LT&C

*Note: Top joint of surface casing to be 42#.

Minimum design safety factors: Burst-1.0, Collapse-~~1.0~~ Axial -1.6.

Centralizer Program:

Surface: - 3 welded bow spring centralizers, one on each of the bottom 3 joints, plus one on the shoe joint (4 minimum)
- No Cement baskets will be run

Production: - 1 welded bow spring centralizer on a stop ring 6' above float shoe
- 1 centralizer every other joint to the top of the tail cement
- 1 centralizer every 4 joints to 500' below the top of the lead cement
- The actual number and placement of centralizers will be determined from hole deviation and potential production zones. Centralizers will be run for maximum practical standoff and through all potential productive zones.

- All casing strings below the conductor shall be tested, prior to drilling out the casing shoe, to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the internal yield pressure of the casing. If pressure declines more than 10 percent in 30 minutes, corrective action will be taken.

No freshly hard banded pipe will be rotated in the surface casing

- GMT will not employ an air-drill rig for the surface casing. The casing shoe will be tested by drilling 5'-10' out from under the shoe and pressure testing to the maximum expected mud weight equivalent as shown in the mud program listed in the drilling plan.

B. Proposed Cementing Program:

Air drilling not approved for any casing.

Casing Size	Interval	% Excess	Cement Blend
Surface: 13 3/8"	0' - 1,750'	150 % over theoretical hole volume	Cement surface with 400 sacks of 35/65/poz Class "C" Lead and 350 sacks Class "C" Tail. Circulate to surface with 177 sacks.

			Lead: Slurry Density: 12.8 lb/gal Yield: 2.00 ft³/sack Mix Fluid: 10.643 gal/sk Sack Reference: 89lb of Blend Blend: 186.59 lb/ft³ Fresh Water 10.486 gal/sk 5% BWOW Salt 6% BWOB Extender .3% BWOB Fluid Loss .2% BWOB Dispersant 5 lb/sk LCM/extender .2% BWOB Antifoam Tail: Slurry Density: 14.8 lb/gal Yield: 1.34ft³/sk Mix Fluid: 6.336 gal/sk Sack Reference: 94lb of Blend Blend: 197.27 lb/ft³ Fresh Water: 6.366 gal/sk 1% BWOC Accelerator .2% BWOC Antifoam
Intermediate: 8 5/8"	1-725' - 5,400'	25 % over theoretical hole volume -or- 10% over caliper volume	Cement intermediate with 2,080 sacks of 35/65/poz Class "C" Lead and 350 sacks Class "C" Tail. Circulate to surface with 281 sacks. Lead: Slurry Density: 12.8 lb/gal Yield: 2.0 ft³/sk Mix Fluid: 10.617 gal/sk Sack Reference: 89lb of Blend Blend: 186.59/ft³ Fresh Water: 10.440 gal/sk 5% BWOW Salt 6% BWOB Extender .5% BWOB Fluid Loss 5 lb/sk LCM/extender .4% BWOB Retarder .2% BWOB Dispersant .02 gal/sk Antifoam Tail: Slurry Density: 14.8 lb/gal Yield: 1.33 ft³/sk Mix Fluid: 6.375 gal/sk Sack Reference: 94lb of Blend Blend Density: 197.27 lb/ft³ Fresh Water: 6.344 gal/sk .35% BWOC Retarder .2% BWOC Antifoam .02 gal/sk Retarder

Production: 5 1/2"	4'400- 13,664'	25 % over theoretical hole volume -or- 10% over caliper volume	Cement from TMD to an interlock of at least 1000' into annular space separating 5 1/2" casing (production) and 8 5/8" casing (intermediate) with 440 sacks of 50/50/poz Class "H" Lead and 880 sacks of Trinity Lite. Lead: Slurry Density: 11.8 lb/gal Yield: 2.55 ft3/sk Mix Fluid: 15.134 gal/sk Sack Reference: 86lb of Blend Blend: 182.12 lb/ft3 Fresh Water: 14.910 gal/sk 10% BWOB Extender 5% BWOW Salt .1% BWOB Viscosifier .2% BWOB Antifoam .1% BWOB Retarder Tail: Slurry Density: 13 lb/gal Yield: 1.42 ft3/sk Mix Fluid: 7.289 gal/sk Sack Reference: 75lb of Blend Blend: 176.05 lb/ft3 Fresh Water: 7.289 gal/sk 1.5% BWOC Expanding ce .25% Retarder 1% Fluid Loss .2% BWOC Antifoam
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See
COA

The **surface casing** shall be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface. Pea Gravel or other material shall not be used to fill up around the surface casing in the event cement fall back occurs.

A Sundry Notice (Form 3160-5), along with a copy of the service company's materials ticket and job log, shall be submitted to the local BLM office within 5 working days following the running and cementing

5. Mud System:

The following is meant as a guide only. Actual mud weights will be determined by hole conditions. Sufficient quantities of mud materials will be maintained or readily accessible for assuring well control.

Interval	Mud Weight PPG	Viscosity SEC	Fluid Loss CC	PH	Remarks
0' - 1,750'	8.4 - 8.8	28 - 36	Natural	8.5-9.5	Fresh Water
1,750' - 5,400'	8.4 - 8.8 10	26 - 32	No Control	9.0-10.5	Salt Water/Brine
5,400' - 13,664'	9.0 - 11.0	34 - 45	8 - 12	9.0-10.5	LSND/weight nondispersed

See
COA

Mud tests will be performed at a minimum interval of every 24 hours after mudding up to determine: density, viscosity, filtration, and pH for formation compatibility.

Drilling of the surface casing will occur with fresh water. GMT will use fresh water from surface to 1750' and then switch to a brine-based solution of salinity sufficient to be saturated for preventing washout (10#/gal) ($\geq 185,000$ ppm).

Sufficient quantities of mud materials shall be maintained at the well site, at all times, for the purpose of assuring well control.

A temporary surface pipeline will be used to transport drilling water. The pipeline shall be laid and removed when the ground surface is dry so as to minimize surface disturbance. No blading or other alteration of the ground surface shall be allowed.

6. **Testing, Logging, and Coring Program** *See 2019*

Cores-DST's: None anticipated at this time.

Surveys: Inclination only surveys while drilling, directional survey

Mud Logger: Morco Geological Services 5400' to TD

Logging: Resistivity, GR, Surface to 8,460'
Neutron/Density, Caliper Surface to 8,460'

Stimulation Program:

Evaluate open hole logs to determine interval to perforate. Perforate selected intervals of interest after addressing spacing and commingling considerations. A completion program will be based upon evaluation of the logs and formation parameters.

7. **Abnormal Conditions/Expected BHP**

- a. GMT expect bottomhole temperatures to range between 140-160degrees Fahrenheit
- b. Drilling in this area should encounter normal pressure gradients of ~ 0.49 psi/ft. **4383 psi**
- c. GMT expects to drill without encountering meaningful lost circulation. In the unlikely event of lost circulation, loss prevention additives have been procured and will be on location if needed.

Please see GMT's attached statement declaring that all personnel shall receive proper H2S training in accordance with Section III.C.3a, refer to Exhibit 1.

Please see GMT's H2S Contingency Plan provided within the APD packet.

8. **Additional Information**

- a. Anticipated starting date based upon approval will be 11/15/2012.
- b. Duration of the drilling operations will be approximately 30 days.
- c. This well is a directional well per attached directional plan from Pathfinder. Please refer to Exhibit 2.
- d. Rat and mouse holes (or any subgrade excavations for drilling operations) shall be filled and compacted, with appropriate native materials, immediately upon release of the drilling rig from the location.

- e. Any permanent plug placed in the well during drilling and/or completion operations must have **prior** approval of the Authorized Officer.
- f. As provided in NTL-4A, gas produced from this well may not be vented or flared beyond an initial test period, 30 days or 50 MMCF, whichever first occurs, without approval of the Authorized Officer.
- g. GMT shall report all fresh water flows encountered while drilling to the Authorized Officers representative (Petroleum Engineer) prior to the running the next string of casing. The reported information shall include a) well name, number and location, b) the date the water flow was encountered, c) depth at which the water flow was encountered and d) estimated water flow rate into the well bore. The operator shall file a Form 3160-5 (Subsequent Report Sundry Notice) of this same information within 30 days of releasing the drilling rig.
- h. Anticipated bottom hole temperature is 140°F, and its anticipated pressure is ~~~2100 lbs.~~ **4383 psi**

GMT Exploration Company, LLC will promptly plug and abandon each newly completed, re-completed or producing well which is not capable of producing in paying quantities. No well may be temporarily abandoned for more than 30 days without prior approval of the Authorized Officer. When justified by the Operator, the Authorized Officer may authorize additional delays, no one of which may exceed an additional 12 months. Upon removal of drilling or producing equipment from the site of a well which is to be permanently abandoned, the surface of the lands disturbed shall be reclaimed in accordance with a plan first approved or prescribed by the Authorized Officer or per the reclamation conditions of approval stated herein.

Exhibit 2

GMT Pryor State #4H Rev0E RJS 10-Aug-12 Proposal Report (Non-Def Plan)

PATHFINDER
A Schlumberger Company

Report Date: August 10, 2012 - 08:52 AM
Client: GMT
Field: NM Lee County (NAD 83)
Structure / Slot: GMT Pryor State #4H / GMT Pryor State #4H
Well: GMT Pryor State #4H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: GMT Pryor State #4H Rev0E RJS 10-Aug-12
Survey Date: August 08, 2012
Tert / AHD / DDI / ERD Ratio: 90 931 * / 4931.218 R / 5 836 / 0 552
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 20' 27.08500", W 103° 25' 51.32836"
Location Grid N/E Y/X: N 488910 000 RUS, E 820038 800 RUS
CRS Grid Convergence Angle: 0.48277897 °
Grid Scale Factor: 0.99998805

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.485 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB
TVD Reference Elevation: 3398.000 ft above MSL
Seabed / Ground Elevation: 3378.000 ft above MSL
Magnetic Declination: 7.487 °
Total Field Strength: 48583.062 nT
Magnetic Dip Angle: 60.256 °
Declination Date: August 08, 2012
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.483 °
Total Corr Mag North-to-Grid North: 7.004 °
Local Coord Referenced To: Structure Reference Point

Comments	ND (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Pryor State #4H	0.00	0.00	179.49	0.00	-1398.00	0.00	0.00	0.00	N/A	488910.00	820038.80	N 32 20 27.09	W 103 25 51.33
KOP - Build @ 12"/100' DLS	8459.73	0.00	179.49	8459.73	5081.73	0.00	0.00	0.00	0.00	488910.00	820038.80	N 32 20 27.09	W 103 25 51.33
Landing Point	9217.48	90.93	179.49	8937.13	5539.13	485.21	-485.19	4.38	12.00	488424.81	820042.98	N 32 20 22.28	W 103 25 51.33
GMT Pryor State #4H PBHL	13864.07	90.93	179.49	8885.00	5467.00	4931.22	-4931.02	44.30	0.00	483979.00	820082.90	N 32 19 38.29	W 103 25 51.30

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95 000% Confidence 2 7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	20.000	1/100.000	SLB_MWD-STD-Depth Only	Original Borehole / GMT Pryor State #4H Rev0E RJS 10-Aug-12
	20.000	13864.068	1/100.000	SLB_MWD-STD	Original Borehole / GMT Pryor State #4H Rev0E RJS 10-Aug-12

Exhibit 2

GMT Pryor State #4H Rev0E RJS 10-Aug-12 Proposal Report 100' Interpolated (Non-Def Plan)



Report Date: August 10, 2012 - 08:53 AM
Client: GMT
Field: NM Lea County (NAD 83)
Structure / Slat: GMT Pryor State #4H / GMT Pryor State #4H
Well: GMT Pryor State #4H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: GMT Pryor State #4H Rev0E RJS 10-Aug-12
Survey Date: August 08, 2012
Tert / AHD / DDI / ERD Ratio: 90 931 ' / 4931.218 ft / 5 830 / 0.552
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 20' 27.0850", W 103° 25' 51.3283"
Location Grid N/E Y/X: N 488910 000 HUS, E 820038 600 HUS
CRS Grid Convergence Angle: 0.48277697 °
Grid Scale Factor: 0.99998605

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.485 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB
TVD Reference Elevation: 3378.000 ft above MSL
Seabed / Ground Elevation: 3378.000 ft above MSL
Magnetic Declination: 7.487 °
Total Field Strength: 48583.962 nT
Magnetic Dip Angle: 60.250 °
Declination Date: August 08, 2012
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.483 °
Total Corr Mag North->Grid North: 7.004 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Pryor State #4H	0.00	0.00	179.49	0.00	-3398.00	0.00	0.00	0.00	N/A	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	100.00	0.00	179.49	100.00	-3398.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	200.00	0.00	179.49	200.00	-3398.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	300.00	0.00	179.49	300.00	-3098.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	400.00	0.00	179.49	400.00	-2998.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	500.00	0.00	179.49	500.00	-2898.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	600.00	0.00	179.49	600.00	-2798.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	700.00	0.00	179.49	700.00	-2698.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	800.00	0.00	179.49	800.00	-2598.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
	900.00	0.00	179.49	900.00	-2498.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33
1000.00	0.00	179.49	1000.00	-2398.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1100.00	0.00	179.49	1100.00	-2298.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1200.00	0.00	179.49	1200.00	-2198.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1300.00	0.00	179.49	1300.00	-2098.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1400.00	0.00	179.49	1400.00	-1998.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1500.00	0.00	179.49	1500.00	-1898.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1600.00	0.00	179.49	1600.00	-1798.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1700.00	0.00	179.49	1700.00	-1698.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1800.00	0.00	179.49	1800.00	-1598.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
1900.00	0.00	179.49	1900.00	-1498.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2000.00	0.00	179.49	2000.00	-1398.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2100.00	0.00	179.49	2100.00	-1298.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2200.00	0.00	179.49	2200.00	-1198.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2300.00	0.00	179.49	2300.00	-1098.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2400.00	0.00	179.49	2400.00	-998.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2500.00	0.00	179.49	2500.00	-898.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2600.00	0.00	179.49	2600.00	-798.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2700.00	0.00	179.49	2700.00	-698.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2800.00	0.00	179.49	2800.00	-598.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
2900.00	0.00	179.49	2900.00	-498.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3000.00	0.00	179.49	3000.00	-398.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3100.00	0.00	179.49	3100.00	-298.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3200.00	0.00	179.49	3200.00	-198.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3300.00	0.00	179.49	3300.00	-98.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3400.00	0.00	179.49	3400.00	2.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3500.00	0.00	179.49	3500.00	102.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3600.00	0.00	179.49	3600.00	202.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3700.00	0.00	179.49	3700.00	302.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3800.00	0.00	179.49	3800.00	402.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
3900.00	0.00	179.49	3900.00	502.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4000.00	0.00	179.49	4000.00	602.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4100.00	0.00	179.49	4100.00	702.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4200.00	0.00	179.49	4200.00	802.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4300.00	0.00	179.49	4300.00	902.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4400.00	0.00	179.49	4400.00	1002.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4500.00	0.00	179.49	4500.00	1102.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4600.00	0.00	179.49	4600.00	1202.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4700.00	0.00	179.49	4700.00	1302.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4800.00	0.00	179.49	4800.00	1402.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
4900.00	0.00	179.49	4900.00	1502.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5000.00	0.00	179.49	5000.00	1602.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5100.00	0.00	179.49	5100.00	1702.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5200.00	0.00	179.49	5200.00	1802.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5300.00	0.00	179.49	5300.00	1902.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5400.00	0.00	179.49	5400.00	2002.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5500.00	0.00	179.49	5500.00	2102.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5600.00	0.00	179.49	5600.00	2202.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5700.00	0.00	179.49	5700.00	2302.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5800.00	0.00	179.49	5800.00	2402.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
5900.00	0.00	179.49	5900.00	2502.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6000.00	0.00	179.49	6000.00	2602.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6100.00	0.00	179.49	6100.00	2702.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6200.00	0.00	179.49	6200.00	2802.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6300.00	0.00	179.49	6300.00	2902.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6400.00	0.00	179.49	6400.00	3002.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6500.00	0.00	179.49	6500.00	3102.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6600.00	0.00	179.49	6600.00	3202.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6700.00	0.00	179.49	6700.00	3302.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6800.00	0.00	179.49	6800.00	3402.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
6900.00	0.00	179.49	6900.00	3502.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 25 51.33	
7000.00	0.00	179.49	7000.00	3602.00	0.00	0.00	0.00	0.00	488910.00	820038.60	N 32 20 27.09	W 103 2	

Exhibit 2

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7500.00	0.00	179.49	7500.00	4102.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	7600.00	0.00	179.49	7600.00	4202.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	7700.00	0.00	179.49	7700.00	4302.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	7800.00	0.00	179.49	7800.00	4402.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	7900.00	0.00	179.49	7900.00	4502.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	8000.00	0.00	179.49	8000.00	4602.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	8100.00	0.00	179.49	8100.00	4702.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	8200.00	0.00	179.49	8200.00	4802.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	8300.00	0.00	179.49	8300.00	4902.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	8400.00	0.00	179.49	8400.00	5002.00	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
KOP - Build @ 12"/100' DLS	8459.73	0.00	179.49	8459.73	5061.73	0.00	0.00	0.00	0.00	488910.00	820038.00	N 32 20 27.09	W 103 25 51.33
	8500.00	4.83	179.49	8489.95	5101.95	1.70	-1.70	0.02	12.00	488908.30	820038.82	N 32 20 27.07	W 103 25 51.33
	8600.00	18.83	179.49	8597.69	5199.99	20.46	-20.46	0.18	12.00	488889.54	820038.78	N 32 20 28.85	W 103 25 51.33
	8700.00	28.83	179.49	8659.99	5291.99	59.19	-59.19	0.53	12.00	488850.81	820039.13	N 32 20 28.50	W 103 25 51.33
	8800.00	40.83	179.49	8771.82	5373.82	118.20	-118.20	1.04	12.00	488793.80	820039.84	N 32 20 25.64	W 103 25 51.33
	8900.00	52.83	179.49	8840.21	5442.21	189.01	-189.00	1.70	12.00	488721.00	820040.30	N 32 20 25.22	W 103 25 51.33
	9000.00	64.83	179.49	8861.87	5493.87	274.42	-274.40	2.47	12.00	488635.80	820041.07	N 32 20 24.37	W 103 25 51.33
	9100.00	76.83	179.49	8924.64	5538.64	368.76	-368.68	3.31	12.00	488541.32	820041.91	N 32 20 23.44	W 103 25 51.33
	9200.00	88.83	179.49	8937.09	5539.09	467.74	-467.72	4.20	12.00	488442.28	820042.80	N 32 20 22.48	W 103 25 51.33
Landing Point	9217.48	90.93	179.49	8937.13	5539.13	485.21	-485.19	4.36	12.00	488424.81	820042.96	N 32 20 22.28	W 103 25 51.33
	9300.00	90.93	179.49	8935.79	5537.79	587.72	-587.70	5.10	0.00	488342.30	820043.70	N 32 20 21.47	W 103 25 51.32
	9400.00	90.93	179.49	8934.17	5536.17	687.71	-687.68	6.00	0.00	488242.32	820044.80	N 32 20 20.48	W 103 25 51.32
	9500.00	90.93	179.49	8932.54	5534.54	787.70	-787.67	6.90	0.00	488142.34	820045.50	N 32 20 19.49	W 103 25 51.32
	9600.00	90.93	179.49	8930.92	5532.92	887.69	-887.65	7.80	0.00	488042.35	820046.40	N 32 20 18.50	W 103 25 51.32
	9700.00	90.93	179.49	8929.30	5531.30	987.67	-987.63	8.70	0.00	487942.37	820047.30	N 32 20 17.51	W 103 25 51.32
	9800.00	90.93	179.49	8927.68	5529.68	1087.66	-1087.62	9.60	0.00	487842.39	820048.20	N 32 20 16.52	W 103 25 51.32
	9900.00	90.93	179.49	8926.05	5528.05	1187.65	-1187.60	10.49	0.00	487742.41	820049.09	N 32 20 15.53	W 103 25 51.32
	10000.00	90.93	179.49	8924.43	5526.43	1287.63	-1287.58	11.39	0.00	487642.42	820049.99	N 32 20 14.54	W 103 25 51.32
	10100.00	90.93	179.49	8922.81	5524.81	1387.62	-1387.56	12.29	0.00	487542.44	820050.89	N 32 20 13.55	W 103 25 51.32
	10200.00	90.93	179.49	8921.18	5523.18	1487.61	-1487.55	13.19	0.00	487442.46	820051.79	N 32 20 12.56	W 103 25 51.32
	10300.00	90.93	179.49	8919.56	5521.56	1587.59	-1587.53	14.09	0.00	487342.48	820052.69	N 32 20 11.57	W 103 25 51.32
	10400.00	90.93	179.49	8917.94	5519.94	1687.58	-1687.51	14.99	0.00	487242.49	820053.59	N 32 20 10.58	W 103 25 51.32
	10500.00	90.93	179.49	8916.32	5518.32	1787.57	-1787.50	15.89	0.00	487142.51	820054.49	N 32 20 9.60	W 103 25 51.32
	10600.00	90.93	179.49	8914.69	5516.69	1887.55	-1887.48	16.78	0.00	487042.53	820055.39	N 32 20 8.61	W 103 25 51.32
	10700.00	90.93	179.49	8913.07	5515.07	1987.54	-1987.46	17.68	0.00	486942.55	820056.28	N 32 20 7.62	W 103 25 51.32
	10800.00	90.93	179.49	8911.45	5513.45	2087.53	-2087.44	18.58	0.00	486842.56	820057.18	N 32 20 6.63	W 103 25 51.31
	10900.00	90.93	179.49	8909.83	5511.83	2187.51	-2187.43	19.48	0.00	486742.58	820058.08	N 32 20 5.64	W 103 25 51.31
	11000.00	90.93	179.49	8908.20	5510.20	2287.50	-2287.41	20.38	0.00	486642.60	820058.98	N 32 20 4.65	W 103 25 51.31
	11100.00	90.93	179.49	8906.58	5508.58	2387.49	-2387.39	21.28	0.00	486542.62	820059.88	N 32 20 3.66	W 103 25 51.31
	11200.00	90.93	179.49	8904.96	5506.96	2487.47	-2487.37	22.17	0.00	486442.63	820060.77	N 32 20 2.67	W 103 25 51.31
	11300.00	90.93	179.49	8903.34	5505.34	2587.46	-2587.36	23.07	0.00	486342.65	820061.67	N 32 20 1.68	W 103 25 51.31
	11400.00	90.93	179.49	8901.72	5503.72	2687.45	-2687.34	23.97	0.00	486242.67	820062.57	N 32 20 0.69	W 103 25 51.31
	11500.00	90.93	179.49	8900.09	5502.09	2787.44	-2787.32	24.87	0.00	486142.69	820063.47	N 32 19 59.70	W 103 25 51.31
	11600.00	90.93	179.49	8898.47	5500.47	2887.42	-2887.31	25.77	0.00	486042.71	820064.37	N 32 19 58.71	W 103 25 51.31
	11700.00	90.93	179.49	8896.85	5498.85	2987.41	-2987.29	26.66	0.00	485942.72	820065.26	N 32 19 57.72	W 103 25 51.31
	11800.00	90.93	179.49	8895.23	5497.23	3087.40	-3087.27	27.56	0.00	485842.74	820066.16	N 32 19 56.73	W 103 25 51.31
	11900.00	90.93	179.49	8893.61	5495.61	3187.38	-3187.25	28.46	0.00	485742.76	820067.06	N 32 19 55.74	W 103 25 51.31
	12000.00	90.93	179.49	8891.98	5493.98	3287.37	-3287.24	29.36	0.00	485642.78	820067.96	N 32 19 54.75	W 103 25 51.31
	12100.00	90.93	179.49	8890.36	5492.36	3387.36	-3387.22	30.26	0.00	485542.79	820068.86	N 32 19 53.77	W 103 25 51.31
	12200.00	90.93	179.49	8888.74	5490.74	3487.34	-3487.20	31.16	0.00	485442.81	820069.76	N 32 19 52.78	W 103 25 51.31
	12300.00	90.93	179.49	8887.12	5489.12	3587.33	-3587.19	32.05	0.00	485342.83	820070.65	N 32 19 51.79	W 103 25 51.31
	12400.00	90.93	179.49	8885.50	5487.50	3687.32	-3687.17	32.95	0.00	485242.85	820071.55	N 32 19 50.80	W 103 25 51.30
	12500.00	90.93	179.49	8883.87	5485.87	3787.30	-3787.15	33.85	0.00	485142.88	820072.45	N 32 19 49.81	W 103 25 51.30
	12600.00	90.93	179.49	8882.25	5484.25	3887.29	-3887.13	34.75	0.00	485042.89	820073.35	N 32 19 48.82	W 103 25 51.30
	12700.00	90.93	179.49	8880.63	5482.63	3987.28	-3987.12	35.64	0.00	484942.90	820074.24	N 32 19 47.83	W 103 25 51.30
	12800.00	90.93	179.49	8879.01	5481.01	4087.26	-4087.10	36.54	0.00	484842.92	820075.14	N 32 19 46.84	W 103 25 51.30
	12900.00	90.93	179.49	8877.39	5479.39	4187.25	-4187.08	37.44	0.00	484742.93	820076.04	N 32 19 45.85	W 103 25 51.30
	13000.00	90.93	179.49	8875.77	5477.77	4287.24	-4287.07	38.34	0.00	484642.95	820076.94	N 32 19 44.86	W 103 25 51.30
	13100.00	90.93	179.49	8874.15	5476.15	4387.22	-4387.05	39.24	0.00	484542.97	820077.84	N 32 19 43.87	W 103 25 51.30
	13200.00	90.93	179.49	8872.52	5474.52	4487.21	-4487.03	40.13	0.00	484442.99	820078.73	N 32 19 42.88	W 103 25 51.30
	13300.00	90.93	179.49	8870.90	5472.90	4587.20	-4587.01	41.03	0.00	484343.00	820079.63	N 32 19 41.89	W 103 25 51.30
	13400.00	90.93	179.49	8869.28	5471.28	4687.19	-4687.00	41.93	0.00	484243.02	820080.53	N 32 19 40.90	W 103 25 51.30
	13500.00	90.93	179.49	8867.66	5469.66	4787.17	-4786.98	42.83	0.00	484143.04	820081.43	N 32 19 39.91	W 103 25 51.30
	13600.00	90.93	179.49	8866.04	5468.04	4887.16	-4886.96	43.73	0.00	484043.06	820082.32	N 32 19 38.93	W 103 25 51.30
GMT Pryor State #4H PBL	13664.07	90.93	179.49	8865.00	5467.00	4931.22	-4931.02	44.30	0.00	483979.00	820082.90	N 32 19 38.29	W 103 25 51.30

Survey Type: Non-Def Plan

Survey Error Model: ISOWSA Rev 0 *** 3-D 95 000% Confidence 2 7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	20.000	1/100.000	SLB_MWD-STD-Depth Only	Original Borehole / GMT Pryor State #4H RevOE RJS 10-Aug-12
	20.000	13664.068	1/100.000	SLB_MWD-STD	Original Borehole / GMT Pryor State #4H RevOE RJS 10-Aug-12

GMT
Schneider
Schneider

GMT



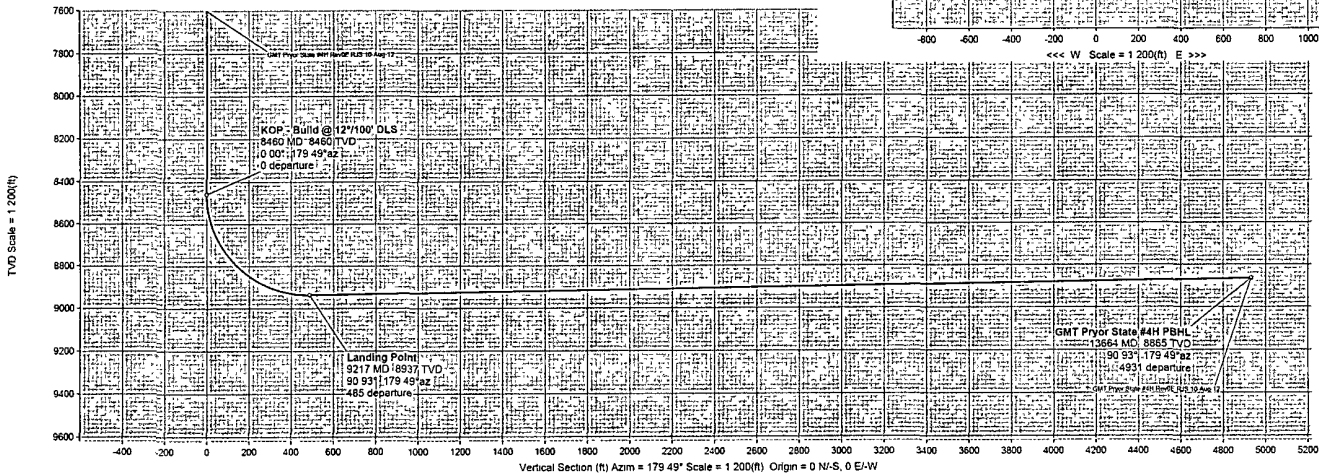
WELL Pryor State #4H				FIELD NM Lea County				STRUCTURE Unknown			
Magnetic Parameters Model BQM 2012 Dip 60.256° Mag Dec 7.487°				Surface Location Lat N 32 20 27.086 Lon W 103 25 51.328 NAD83 New Mexico State Plane, Eastern Zone, US Feet 488910.00 BUS 820018.60 BUS Grid Conv 0 48277697° Scale Factor 0.99999805				Miscellaneous Slot Pryor State #4H Plan Rev 02 RJS 10-Aug-12 TVD Ref KB(3398) above MSL Sevy Date August 08, 2012			

Grid North
Tot Corr (M→G 7.0039°)
Mag Dec (7.487°)
Grid Conv (0 48277697°)

Legend

GMT Pryor State #4H Rev 02 RJS 10-Aug-12
GMT Elevation Pryor State #4H Rev 02 RJS 10-Aug-12

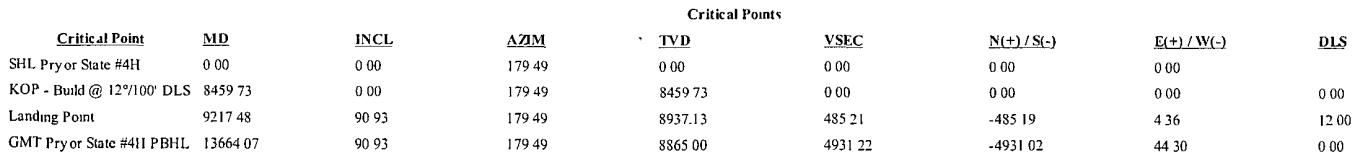
Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
SHL Pryor State #4H	0 00	0 00	179 49	0.00	0 00	0 00	0 00	
KOP - Build @ 12°/100' DLS	8459 73	0 00	179 49	8459.73	0 00	0.00	0 00	0.00
Landing Point	9217 48	90 93	179 49	8937 13	485 21	-485.19	4 36	12.00
GMT Pryor State #4H PBHL	13664 07	90 93	179 49	8865 00	4931 22	-4931.02	44 30	0 00



Drawn By: R. Schneider
Data Created: August 10, 2012 08:54:22 AM
Checked By: _____
Approved By: _____
Approved Date: _____

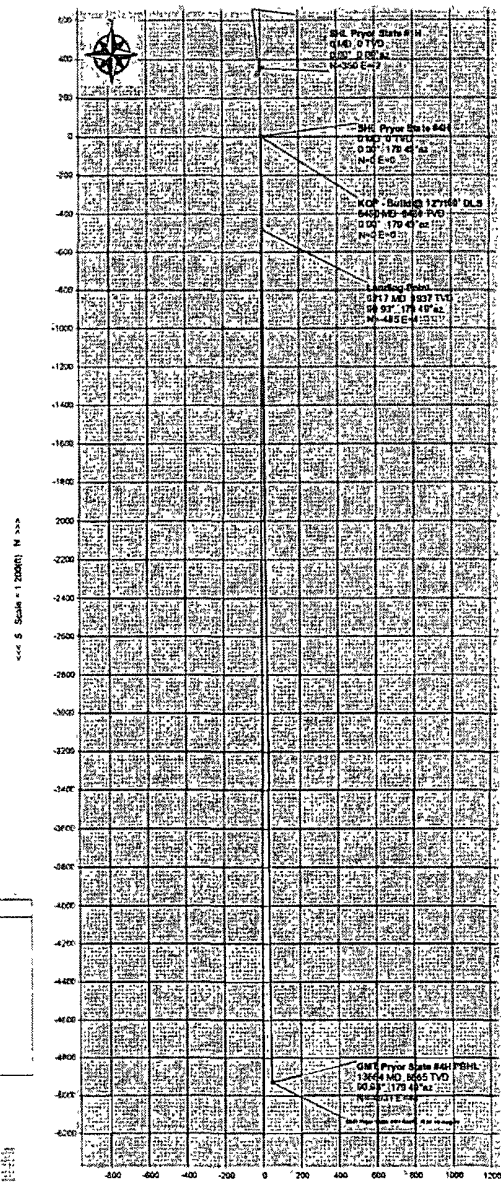
PATHFINDER
A Schlumberger Company

<<< W Scale = 1:1000(ft) E >>>
-1000 0 1000



GMT

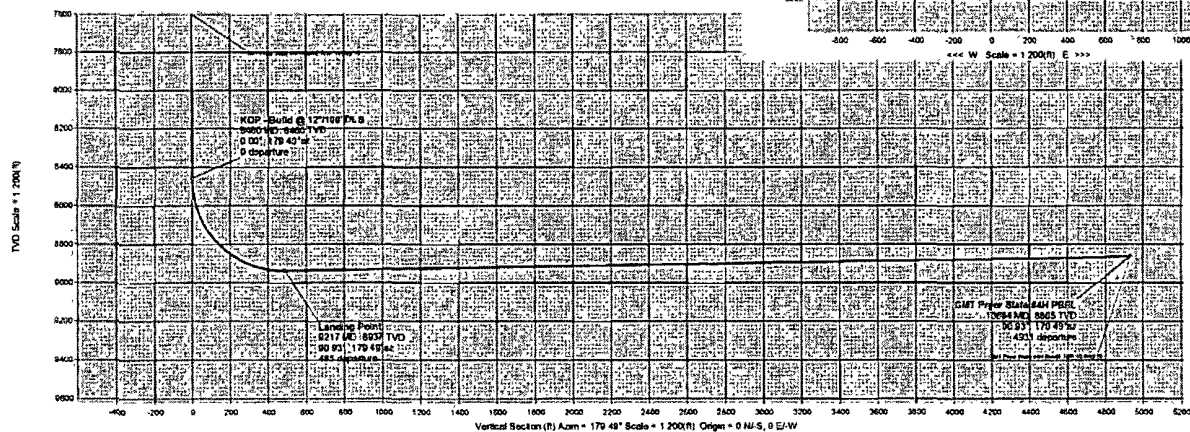
N 1/4 Sec 14		FIELD		NM Lea County		REMARKS	
Pryor State #4H						Unknown	
Mapshots & Pictures Metadata 8/17/2012		Chpt 84.25 ft Map Desc 144 ft		Elev 8420 ft Date 8/17/2012	Surface Low 84.25 ft Elev 8420 ft Lat 31.12222749 Lon -103.25111129	MAGN 30m Maximum Slope Points, Eastern Texas, USFS Forest 8/17/2012 08:17:07 Running 6208 ft 08.152 Slope Desc 8.9999185	1. Transmitter State Pryor State #4H Elev 8408.8152 ft - Along 12 Slope Desc August 18, 2011.



Grid North
Tot Corr (M->G 7.0039°)
Mag Dec (7.487°)
Grid Conv (0 48277697°)

Learning

Critical Point	Critical Points							
	NID	INCL	AZIM	TYD	YSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL Pryor State #4H	0.00	0.00	179.49	0.00	0.00	0.00	0.00	
KOP - Build @ 12"/100' DLS	8459.73	0.00	179.49	8459.73	0.00	0.00	0.00	0.00
Landing Point	9217.48	90.93	179.49	8937.13	485.21	-485.19	4.36	12.00
GMT Pryor State #4H PBHL	13664.07	90.93	179.49	8865.00	4931.22	-4931.02	44.30	0.00



Drawn By R. Schneider
Date Created August 19 2012 08 54 22 AM
Checked By
Checked Date
Approved By
Approval Date



GMT EXPLORATION COMPANY LLC

ACQUISITIONS • EXPLORATION • PRODUCTION

INTERMEDIATE HOLE SECTION

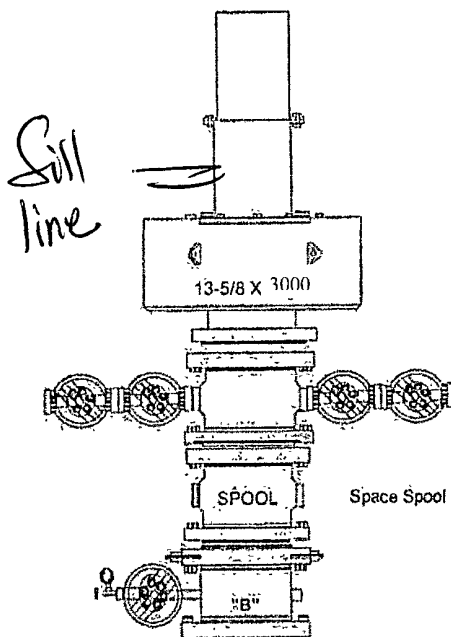
Test to 3000psi

Used while drilling the Intermediate Section (12 1/4" hole size)

*See COA
+ Onshore
Order 2*

MCVAY RIG 4

13 5/8 3000# Stack



13 5/8 3000# MUD :X

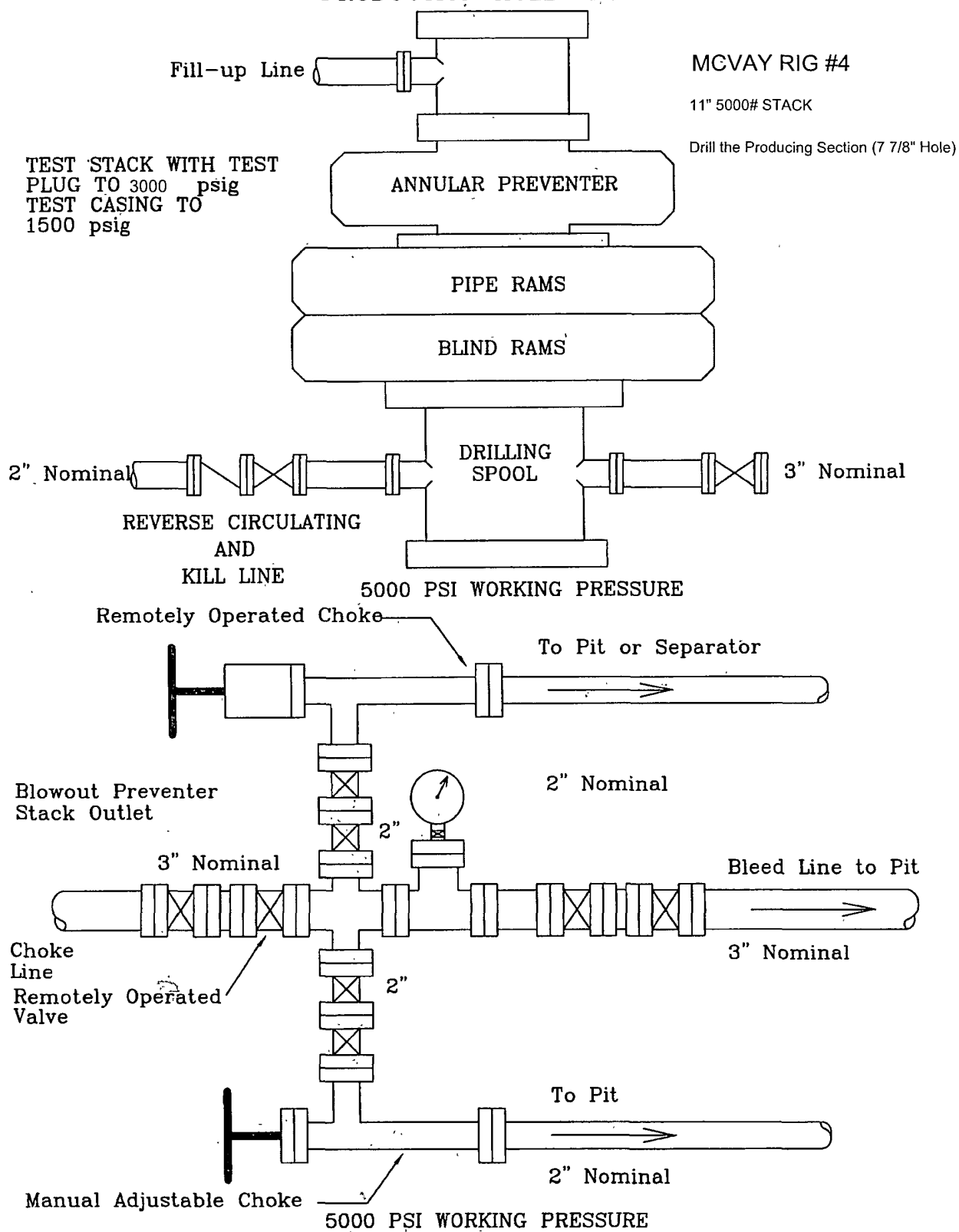
ANNULAR = 13 5/8 3000

GMT Exploration Company, LLC

1560 Broadway, Suite 2000 Denver, CO 80202

Office: 720.946.3028 Fax: 720.946.3034

PRODUCTION HOLE SECTION

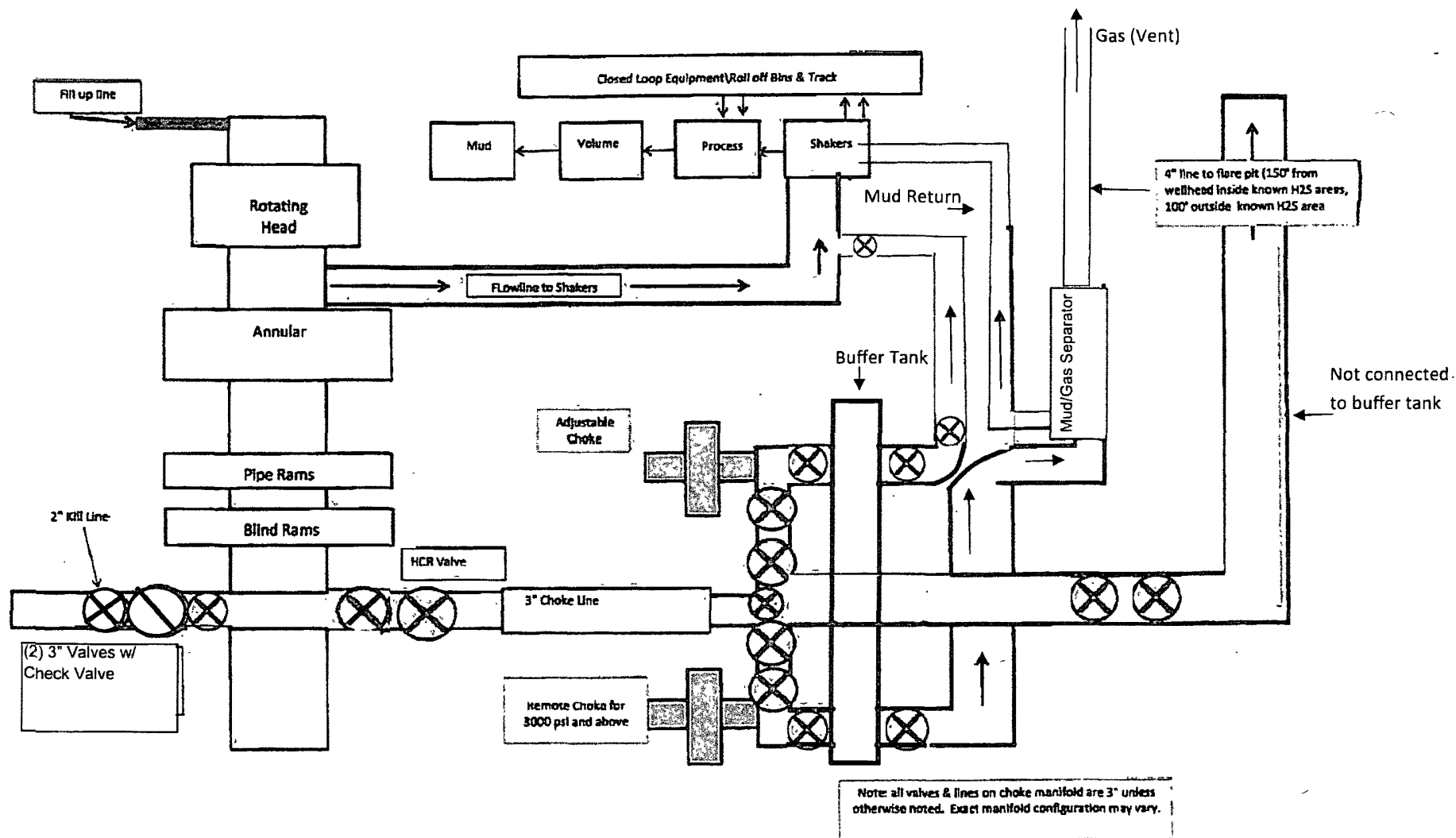


Location: Sec 1 T23S R34E Lot #4
Lea County, New Mexico

Pryor Federal-State COM 4H
BLOWOUT PREVENTER AND CHOKE MANIFOLD

Scale: None

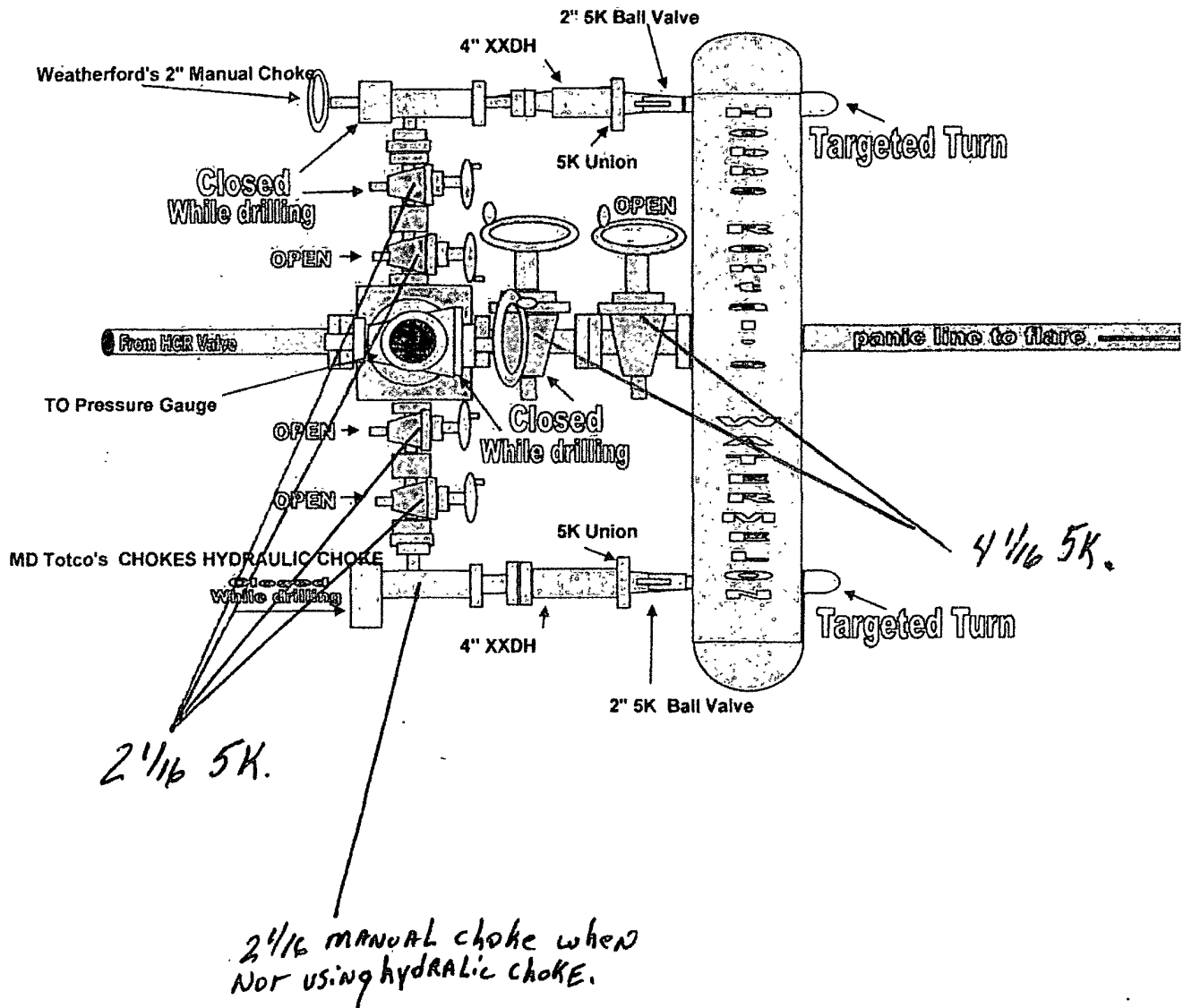
10/01/2012



11" X 5-M BOPE (2 Rams and Rotating Head) & Closed Loop System Equipment Schematic Diagram 2

Location: Sec. 1 T23S R34E Lot #4 Lea County, New Mexico	Pryor Federal-State COM 4H BLOWOUT PREVENTER AND CHOKE MANIFOLD		10/17/2012
		Scale: None	

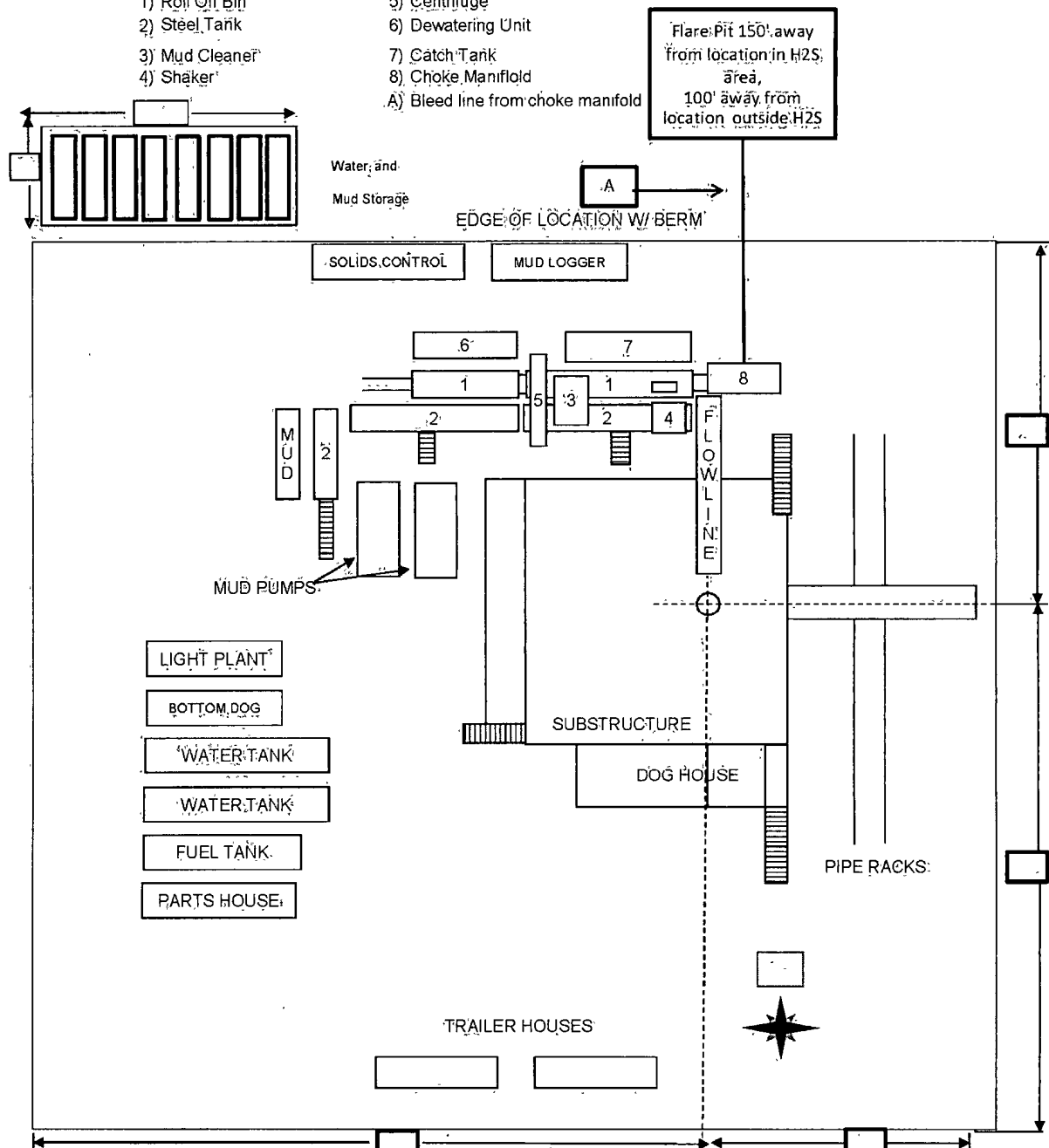
Rig 4 5K Manifold.



RIG LAYOUT SCHEMATIC INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

Solids Control Equipment Legend

- | | |
|-----------------------------------|--------------------|
| 1) Roll Off Bin | 5) Centrifuge |
| 2) Steel Tank | 6) Dewatering Unit |
| 3) Mud Cleaner | 7) Catch Tank |
| 4) Shaker | 8) Choke Manifold |
| A) Bleed line from choke manifold | |



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Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: DAJ 27060
Survey Date: 07-13-2012
Scale: NONE
Date: 07-16-2012

GMT
EXPLORATION
CO., LLC