

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

ATS-10-505
FORM APPROVED
OMB NO. 1004-0136
Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER R-111-POTASH		5. Lease Serial No. NMNM38463
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA Inc.		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 50250 Midland, TX 79710-0250		8. Lease Name and Well No. Pure Gold B Federal #15
3b. Phone No. (include area code) 16696 432-685-5717		9. API Well No. 30-015-38520
4. Location of Well (Report location clearly and in accordance with any special instructions) At surface 1979 FSL 986 FWL NWSW (K) UNORTHODOX LOCATION At proposed prod. zone 1650 2360 BHL: 1979 FSL & 986 FWL NWSW (L) <i>Becomes Orthodox at approximately 5050'</i>		10. Field and Pool, or Exploratory Sand Dunes Delaware, West
14. Distance in miles and direction from nearest town or post office* 20 miles northeast from Loving, NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T23S R31E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 986	16. No. of Acres in lease 640	12. County or Parish Eddy
17. Spacing Unit dedicated to this well 40	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1320'	13. State NM
19. Proposed Depth 8354' MD 7920 TVD -8000'-V-	20. BLM/BIA Bond No. on file ES0136	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3324.1' GL	22. Approximate date work will start* 7/1/10	23. Estimated duration 30

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) David Stewart	Date 4/12/10
Title Sr. Regulatory Analyst		
Approved by (Signautre) /s/ Linda S.C. Rundell	Name (Printed/Typed)	Date FEB - 1 2011
Title STATE DIRECTOR	Office NM STATE OFFICE	

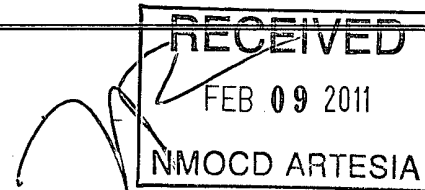
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on Reverse)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL



Approval Subject to General Requirements
& Special Stipulations Attached

CARLSBAD CONTROLLED WATER BASIN

DRILLING PROGRAM

Operator Name/Number: OXY USA Inc. 16696
 Lease Name/Number: Pure Gold B Federal #15 304928 Federal Lease No. NMNM38463
 Pool Name/Number: Sand Dunes Delaware, West 53815
 Surface Location: 1979 FSL 986 FWL NWSW (L) Sec 20 T23S R31E

Proposed TD: 8000' TVD Elevation: 3324.1' GR
 SL - Lat: 32.2880135 Long: 103.8046940 X=663362.1 Y=468899.1 NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

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

Geological Marker	Depth	Type
a. Upper Permian Sand	170'	Water
b. Rustler	464'	
c. Bottom Salt	4024'	
d. Delaware	4070'	Oil
e. Cherry Canyon	4980'	Oil
f. Brushy Canyon	6255'	Oil
g. Bone Springs	7920'	Oil

3. Casing Program:

Hole Size	Interval	OD Csg	Weight	Collar	Grade	Condition	Collapse Design Factor	Burst Design Factor	Tension Design Factor
14-3/4"	500'	11-3/4"	42#	STC	H40	New	5.05	3.93	2.57
10-5/8"	4200'	8-5/8"	32#	LTC	J55	New	2.22	2.64	4.04
7-7/8"	8000'	5-1/2"	17#	LTC	J55	New	1.34	1.37	1.63
	DVT-5900'								
	DVT/ECP-4250'								

4. Cement Program

a. 11-3/4" Surface Circulate cement to Surface w/ 430sx PP w/ 2% CaCl₂, 14.8ppg 1.35yield - 150% Excess

If cement is not circulated, the BLM will be notified, a temperature survey will be run and will be immediately followed by top jobs as necessary to circulate cement to surface.

b. 8-5/8" Intermediate Circulate cement to surface w/ 980sx HES light PP w/ 5% Salt + .125#/sx Poly-E-Flake + 5#/sx Gilsonite, 12.9ppg 1.88yield followed by 200sx PP w/ 1% WL 734, 14.8ppg 1.34yield. 150% Excess

Intermediate -- Contingency

In the event that air pockets are encountered the following alternate cement design will be utilized. Circulate cement to surface w/DV & ECP tool @ +/-600'.

Stage 1: Lead: 620sx Light PP w/ 5% Salt + .25#/sx Poly-E-Flake + 5#/sx Gilsonite
 Gilsonite 12.4ppg 2.12 yield

Tail: 200sx PP w/ 1% CaCl₂ @ 14.8ppg 1.33 yield

Stage 2: Lead: 200sx Light PP w/ 5% Salt + .25#/sx Poly-E-Flake + 5#/sx Gilsonite @ 12.4ppg 2.12 yield

Replaced 9-10-10

Amended Drilling Permit Information

Operator Name/Number: OXY USA Inc. 16696

Lease Name/Number: Pure Gold B Federal # 15 Federal Lease No. NMNM38463

Pool Name/Number: Sand Dunes Delaware, West

Surface Location: 1650 FSL 2360 FWL NESW(K) Sec 20 T23S R31E

PBH Location: 1979 FSL 986 FWL NWSW(L) Sec 20 T23S R31E

C-102 Plats: 5/18/10 5/27/10 Elevation: 3335.4' GR

SL - Lat: 32.2871102 Long: 103.8002473 X=664737.9 Y=468577.3 NAD - 1927

PBHL- Lat: 32.2880135 Long: 103.8046940 X=663362.1 Y=468899.1 NAD - 1927

U.S.G.S Topographic Map: Los Medanos

Proposed TD: 8354' TMD 7920' TVD

Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
7-7/8"	8354' MD	5-1/2"	17#	LTC	J55	New	1.34	1.37	1.63
	DVT-5900' TVD								
	DVT/ECP-4250' TVD								

Cement Program

- c. 5-1/2" Production Cement 1st stage w/ 520 sx Super H w/ .5% Halad R344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx Salt + .3% HR-800, + 0.125 #/sx Ploy-E-Flake 13.2ppg 1.62yield - 100% Excess
Cement 2nd stage w/ 570sx Super H w/ .5% Halad R-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx Salt, + 0.125 #/sx Ploy-E-Flake 13.2ppg 1.62yield - 200% Excess
Cement 3rd stage w/ 410sx HES light PP + 3#/sx Salt, 12.4ppg 2.08 yield followed by 150sx PP + 5#/sx Gilsonite + 0.125 #/sx Poly-E-Flake 14.8ppg 1.33yield - 35% Excess
Estimated TOC @ Surface.

The above cement volumes could be revised pending the caliper measurement.

Plan for improving/maintaining existing road.

Blade and water existing road from location to SH 128 and repair any bad areas of existing road with caliche.

Source of Caliche

Caliche for location and road will come from caliche pit located in Sec 4 T24S R31E, Eddy County, NM

No new electric lines will be required for this well. There is an existing electrical line on north edge of pad.

- c. 5-1/2" Production Cement 1st stage w/ 470sx Super H w/ .5% Halad R344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx Salt + .3% HR-800, 13.2ppg 1.62yield - 100% Excess
 9-10-10
 Replaced
 Cement 2nd stage w/ 540sx Super H w/ .5% Halad R-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx Salt, 13.2ppg 1.62yield - 200% Excess
 Cement 3rd stage w/ 450sx HES light PP, 12.4ppg 2.01yield followed by 100 sx PP, 14.8ppg 1.33yield - 35% Excess
 Estimated TOC @ Surface.

See The above cement volumes could be revised pending the caliper measurement.
 COA

5. Pressure Control Equipment:

Surface 0-500'

None

Production 500-8000'

11" X 5M Double Ram, 11" X 3M Annular, 5M Choke Manifold

The 11" 5000 psi blowout prevention equipment will be installed and operational after setting the 11 3/4" surface casing and the 11 3/4" SOW x 13 5/8" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.

The BOP and ancillary BOPE will be tested by a third party upon installation to the 11 3/4" surface casing with the implementation of a cup tester. All equipment will be tested to 250/2000 psi. To eliminate any risk of exposing cemented surface casing to pressure and potentially creating a micro-annuls, the following actions will be implemented: Wait 24 hours prior to performing test as per Potash R111-P.

The BOP and ancillary BOPE will be tested by a third party upon installation to the 8 5/8" intermediate casing at 4250'. All equipment will be tested to 5000 psi (high) and 250 psi (low), except the annular will be tested to 70% of its rated working pressure (high) and also to 250 psi (low).

Pipe Rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole.

These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 5000 psi WP rating.

entire system be tested as a 5000psi WP rating. These functional tests will be documented on the Daily Driller's Log.

Request variance to connect BOP outlet to the choke manifold a flex line that is manufactured by Contitech Rubber Industrial KFT. It is a 3" ID X 35' flexible hose rated to 10000psi working pressure. It has been tested to 15000psi and is built to API Spec 16C. Once the flex line is installed, it will be tied down with safety clamps, certification attached.

6. Proposed Mud Circulation System

Depth	Mud Wt. ppg	Visc sec	Fluid Loss	Type System
0-500'	8.4-8.8	32-38	NC	Fresh Water/MI Gel Spud Mud
500-4200'	10	28-29	NC	Brine Water
4200-7700'	8.4-8.5	26-28	NC	Fresh Water
7700'-TD	8.5-9.0	32-38	10-15	My-Lo-Jel

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

REPLACEMENT PAGES

Oxy Permian

Potash Drilling Campaign

Eddy County, New Mexico

PURE GOLD B WELL PROGRAM

DRILLING PROGRAM

1. Pressure Control Equipment

The 11" 5000 psi blowout prevention equipment will be installed and operational after setting the 11 3/4" surface casing and the 11 3/4" SOW x 13 5/8" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.

The BOP and ancillary BOPE will be tested by a third party upon installation to the 11 3/4"H-40 42ppf surface casing. All equipment will be tested to 250/1386 (70% of casing burst) psi for 30 minutes, this is to be in compliance with the *Onshore Order # 2* which states the BOPE shall be tested to 70 % of the yield of the casing when the BOP and casing are not isolated.

The BOP and ancillary BOPE will be tested by a third party upon installation to the 8 5/8" intermediate casing at 4250'. All equipment will be tested to 5000 psi (high) and 250 psi (low) except the annular will be tested to 70% of its rated working pressure (high) and also to 250 psi (low). All test will performed with the implementation of a test type plug,

The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log.

Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and valve.

7. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

8. Logging, Coring and Testing Program:

- a. Drill stem tests are not anticipated but if done will be based on geological sample shows.
- b. The open hole electrical logging program consists of triple combo - CNL/LDT/DLL
- c. No coring program is planned but if done will be sidewall rotary cores.
- d. Mud Logging program will be initiated from 4200' to TD.

9. Potential Hazards:

No abnormal pressures, temperatures or H₂S gas are expected. The highest anticipated pressure gradient would be .55 psi/ft or 4400psi. If H₂S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. Anticipated Starting Date and Duration of Operations:

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



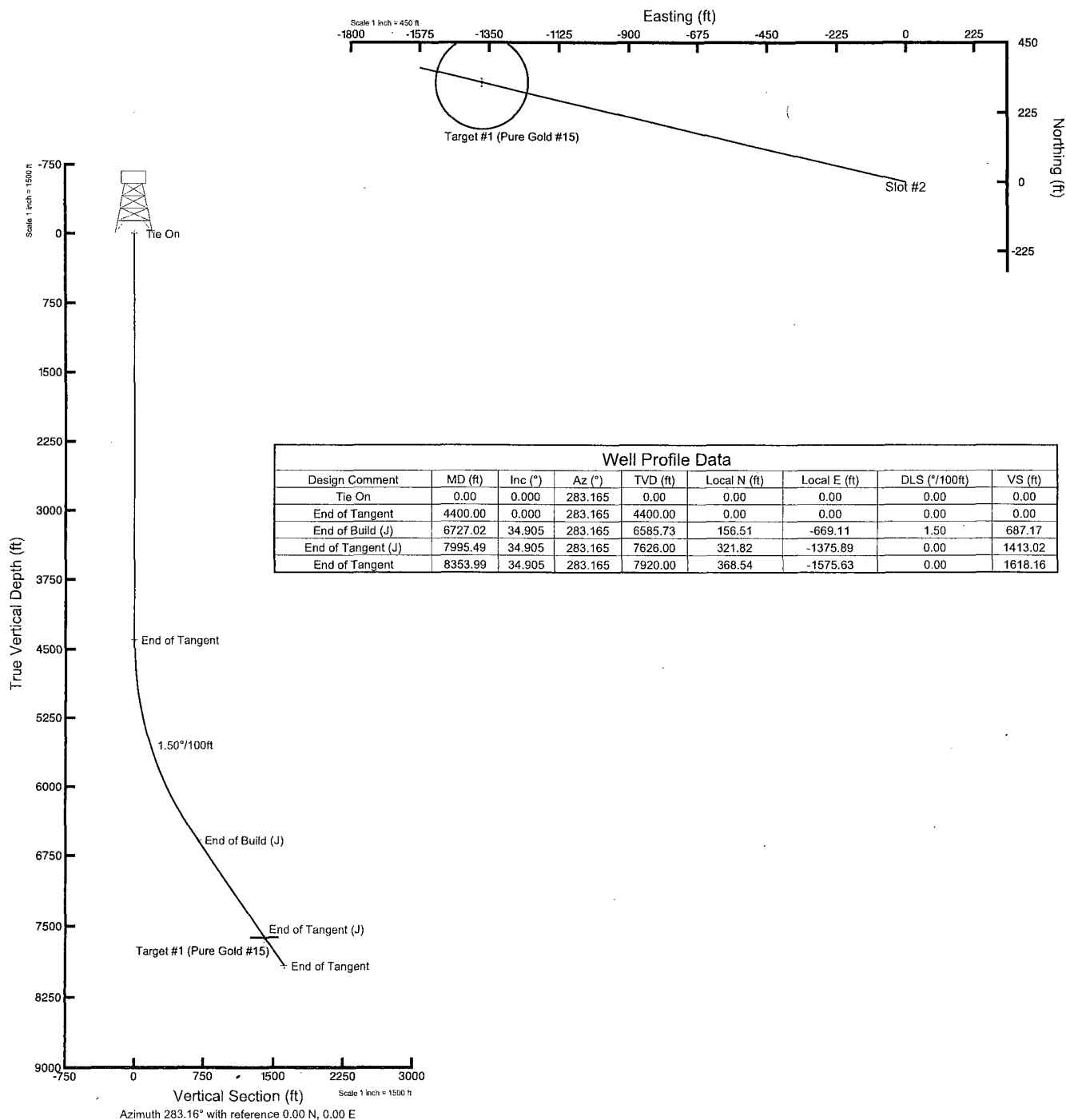
OXY Permian

Location: Eddy County - New Mexico
Field: Lost Tank
Facility: TBD

Slot: Slot #2
Well: Pure Gold #15
Wellbore: #1 PWP



Plot reference wellpath is Pure Gold #15 PWP	
True vertical depths are referenced to Rig on Slot #2 (RT)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on Slot #2 (RT)	North Reference: Grid north
Rig on Slot #2 (RT) to Mean Sea Level: 3352.5 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: TBD): -3336 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: duminazi on 6/22/2010





Planned Wellpath Report

Pure Gold 15 PWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot2
Area	Eddy County - New Mexico	Well	Pure Gold 15
Field	Lost Tank	Wellbore	PWP-1
Facility	TBD		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Dumirazi
Scale	0.99994	Report Generated	6/22/2010 at 3:03:14 PM
Convergence at slot	n/a	Database/Source file	WellArchitectDB/PWP-1.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	100.01	-0.50	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W
Facility Reference Pt			664738.40	468477.30	32°17'12.607"N	103°48'00.890"W
Field Reference Pt			0.00	0.00	30°59'24.512"N	105°55'44.137"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on Slot #2 (RT) to GL (Ground Level)	16.50ft
Horizontal Reference Pt	Slot	Rig on Slot #2 (RT) to Mean Sea Level	3352.50ft
Vertical Reference Pt	Rig on Slot #2 (RT)	GL (Ground Level) to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on Slot #2 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	283.16°



Planned Wellpath Report

Pure Gold 15 PWP

Page 2 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot2
Area	Eddy County - New Mexico	Well	Pure Gold 15
Field	Lost Tank	Wellbore	PWP-1
Facility	TBD		

WELLPATH DATA (87 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
0.00	0.000	283.165	0.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
100.00†	0.000	283.165	100.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
200.00†	0.000	283.165	200.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
300.00†	0.000	283.165	300.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
400.00†	0.000	283.165	400.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
500.00†	0.000	283.165	500.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
600.00†	0.000	283.165	600.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
700.00†	0.000	283.165	700.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
800.00†	0.000	283.165	800.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
900.00†	0.000	283.165	900.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1000.00†	0.000	283.165	1000.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1100.00†	0.000	283.165	1100.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1200.00†	0.000	283.165	1200.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1300.00†	0.000	283.165	1300.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1400.00†	0.000	283.165	1400.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1500.00†	0.000	283.165	1500.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1600.00†	0.000	283.165	1600.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1700.00†	0.000	283.165	1700.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1800.00†	0.000	283.165	1800.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
1900.00†	0.000	283.165	1900.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2000.00†	0.000	283.165	2000.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2100.00†	0.000	283.165	2100.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2200.00†	0.000	283.165	2200.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2300.00†	0.000	283.165	2300.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2400.00†	0.000	283.165	2400.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2500.00†	0.000	283.165	2500.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2600.00†	0.000	283.165	2600.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2700.00†	0.000	283.165	2700.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2800.00†	0.000	283.165	2800.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
2900.00†	0.000	283.165	2900.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3000.00†	0.000	283.165	3000.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3100.00†	0.000	283.165	3100.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3200.00†	0.000	283.165	3200.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3300.00†	0.000	283.165	3300.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3400.00†	0.000	283.165	3400.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3500.00†	0.000	283.165	3500.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3600.00†	0.000	283.165	3600.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3700.00†	0.000	283.165	3700.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3800.00†	0.000	283.165	3800.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
3900.00†	0.000	283.165	3900.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
4000.00†	0.000	283.165	4000.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
4100.00†	0.000	283.165	4100.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
4200.00†	0.000	283.165	4200.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
4300.00†	0.000	283.165	4300.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00
4400.00†	0.000	283.165	4400.00	0.00	0.00	0.00	664737.90	468577.30	32°17'13.597"N	103°48'00.890"W	0.00



Planned Wellpath Report

Pure Gold 15 PWP

Page 3 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

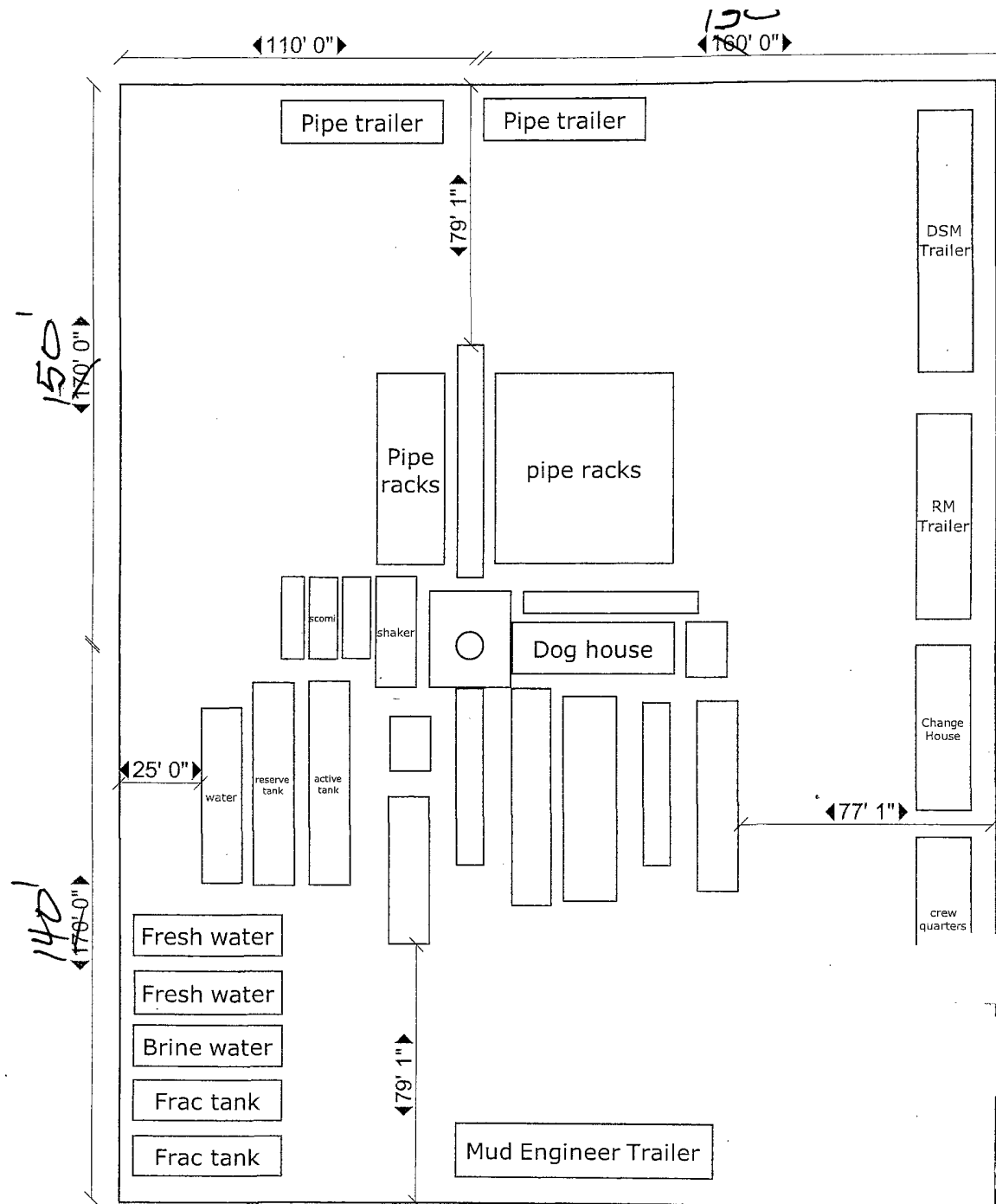
Operator	OXY Permian	Slot	Slot2
Area	Eddy County - New Mexico	Well	Pure Gold 15
Field	Lost Tank	Wellbore	PWP-1
Facility	TBD		

WELLPATH DATA (87 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]
4500.00†	1.500	283.165	4499.99	1.31	0.30	-1.27	664736.63	468577.60	32°17'13.600"N	103°48'00.905"W	1.50
4600.00†	3.000	283.165	4599.91	5.23	1.19	-5.10	664732.80	468578.49	32°17'13.609"N	103°48'00.949"W	1.50
4700.00†	4.500	283.165	4699.69	11.77	2.68	-11.47	664726.44	468579.98	32°17'13.624"N	103°48'01.023"W	1.50
4800.00†	6.000	283.165	4799.27	20.92	4.77	-20.37	664717.53	468582.07	32°17'13.645"N	103°48'01.127"W	1.50
4900.00†	7.500	283.165	4898.57	32.68	7.44	-31.82	664706.08	468584.74	32°17'13.672"N	103°48'01.260"W	1.50
5000.00†	9.000	283.165	4997.54	47.03	10.71	-45.79	664692.11	468588.01	32°17'13.705"N	103°48'01.423"W	1.50
5100.00†	10.500	283.165	5096.09	63.96	14.57	-62.28	664675.62	468591.87	32°17'13.744"N	103°48'01.614"W	1.50
5200.00†	12.000	283.165	5194.16	83.47	19.01	-81.28	664656.63	468596.31	32°17'13.789"N	103°48'01.835"W	1.50
5300.00†	13.500	283.165	5291.70	105.54	24.04	-102.77	664635.14	468601.34	32°17'13.840"N	103°48'02.086"W	1.50
5400.00†	15.000	283.165	5388.62	130.15	29.64	-126.73	664611.17	468606.94	32°17'13.897"N	103°48'02.364"W	1.50
5500.00†	16.500	283.165	5484.86	157.30	35.82	-153.16	664584.75	468613.12	32°17'13.959"N	103°48'02.672"W	1.50
5600.00†	18.000	283.165	5580.36	186.95	42.58	-182.04	664555.87	468619.88	32°17'14.027"N	103°48'03.008"W	1.50
5700.00†	19.500	283.165	5675.05	219.09	49.90	-213.34	664524.58	468627.20	32°17'14.101"N	103°48'03.372"W	1.50
5800.00†	21.000	283.165	5768.86	253.70	57.78	-247.04	664490.88	468635.08	32°17'14.181"N	103°48'03.764"W	1.50
5900.00†	22.500	283.165	5861.74	290.76	66.22	-283.12	664454.80	468643.52	32°17'14.266"N	103°48'04.184"W	1.50
6000.00†	24.000	283.165	5953.62	330.23	75.21	-321.55	664416.37	468652.51	32°17'14.357"N	103°48'04.631"W	1.50
6100.00†	25.500	283.165	6044.43	372.10	84.75	-362.32	664375.60	468662.04	32°17'14.453"N	103°48'05.105"W	1.50
6200.00†	27.000	283.165	6134.12	416.32	94.82	-405.38	664332.54	468672.11	32°17'14.555"N	103°48'05.606"W	1.50
6300.00†	28.500	283.165	6222.61	462.88	105.42	-450.72	664287.21	468682.72	32°17'14.662"N	103°48'06.134"W	1.50
6400.00†	30.000	283.165	6309.86	511.45	116.55	-498.30	664239.63	468693.84	32°17'14.775"N	103°48'06.687"W	1.50
6500.00†	31.500	283.165	6395.80	562.87	128.20	-548.08	664189.85	468705.49	32°17'14.893"N	103°48'07.267"W	1.50
6600.00†	33.000	283.165	6480.37	616.23	140.35	-600.04	664137.90	468717.64	32°17'15.015"N	103°48'07.871"W	1.50
6700.00†	34.500	283.165	6563.51	671.79	153.00	-654.13	664083.81	468730.29	32°17'15.143"N	103°48'08.501"W	1.50
6727.02	34.905	283.165	6585.73	687.17	156.51	-669.11	664068.83	468733.80	32°17'15.179"N	103°48'08.675"W	1.50
6800.00†	34.905	283.165	6645.58	728.93	166.02	-709.78	664028.17	468743.31	32°17'15.275"N	103°48'09.148"W	0.00
6900.00†	34.905	283.165	6727.59	786.15	179.05	-765.49	663972.45	468756.34	32°17'15.406"N	103°48'09.796"W	0.00
7000.00†	34.905	283.165	6809.60	843.38	192.08	-821.21	663916.74	468769.37	32°17'15.538"N	103°48'10.445"W	0.00
7100.00†	34.905	283.165	6891.61	900.60	205.11	-876.93	663861.02	468782.40	32°17'15.670"N	103°48'11.093"W	0.00
7200.00†	34.905	283.165	6973.62	957.82	218.15	-932.65	663805.31	468795.43	32°17'15.801"N	103°48'11.741"W	0.00
7300.00†	34.905	283.165	7055.63	1015.04	231.18	-988.37	663749.59	468808.47	32°17'15.933"N	103°48'12.389"W	0.00
7400.00†	34.905	283.165	7137.64	1072.27	244.21	-1044.09	663693.88	468821.50	32°17'16.065"N	103°48'13.038"W	0.00
7500.00†	34.905	283.165	7219.65	1129.49	257.24	-1099.80	663638.16	468834.53	32°17'16.196"N	103°48'13.686"W	0.00
7600.00†	34.905	283.165	7301.66	1186.71	270.28	-1155.52	663582.45	468847.56	32°17'16.328"N	103°48'14.334"W	0.00
7700.00†	34.905	283.165	7383.67	1243.93	283.31	-1211.24	663526.73	468860.59	32°17'16.460"N	103°48'14.982"W	0.00
7800.00†	34.905	283.165	7465.68	1301.15	296.34	-1266.96	663471.02	468873.62	32°17'16.592"N	103°48'15.631"W	0.00
7900.00†	34.905	283.165	7547.69	1358.38	309.37	-1322.68	663415.30	468886.66	32°17'16.723"N	103°48'16.279"W	0.00
7995.49	34.905	283.165	7626.00	1413.02	321.82	-1375.89	663362.10	468899.10	32°17'16.849"N	103°48'16.898"W	0.00
8000.00†	34.905	283.165	7629.70	1415.60	322.41	-1378.40	663359.59	468899.69	32°17'16.855"N	103°48'16.927"W	0.00
8100.00†	34.905	283.165	7711.70	1472.82	335.44	-1434.11	663303.87	468912.72	32°17'16.987"N	103°48'17.576"W	0.00
8200.00†	34.905	283.165	7793.71	1530.04	348.47	-1489.83	663248.16	468925.75	32°17'17.118"N	103°48'18.224"W	0.00
8300.00†	34.905	283.165	7875.72	1587.27	361.50	-1545.55	663192.44	468938.78	32°17'17.250"N	103°48'18.872"W	0.00
8353.99	34.905	283.165	7920.00	1618.16	368.54	-1575.63	663162.37	468945.82	32°17'17.321"N	103°48'19.222"W	0.00

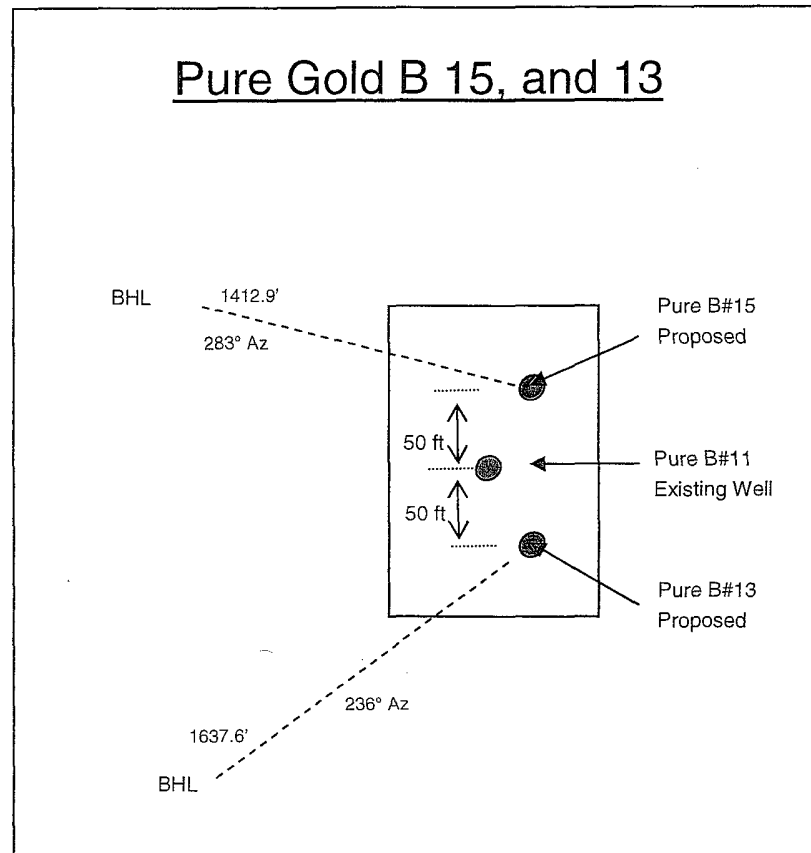
TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) Target #1 (Pure Gold #15)	7995.49	7626.00	321.82	-1375.89	663362.10	468899.10	32°17'16.849"N	103°48'16.898"W	circle

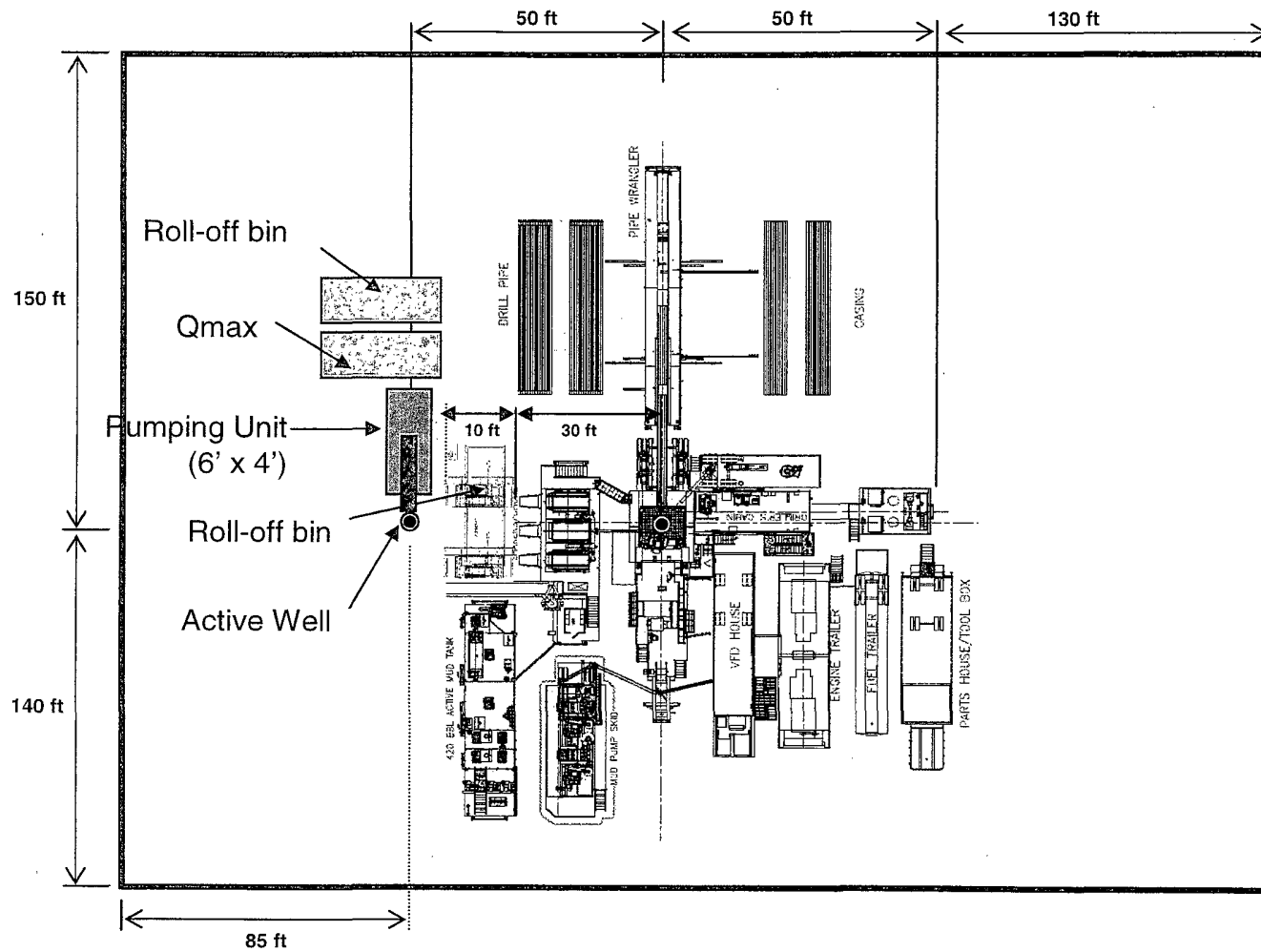


↑
North

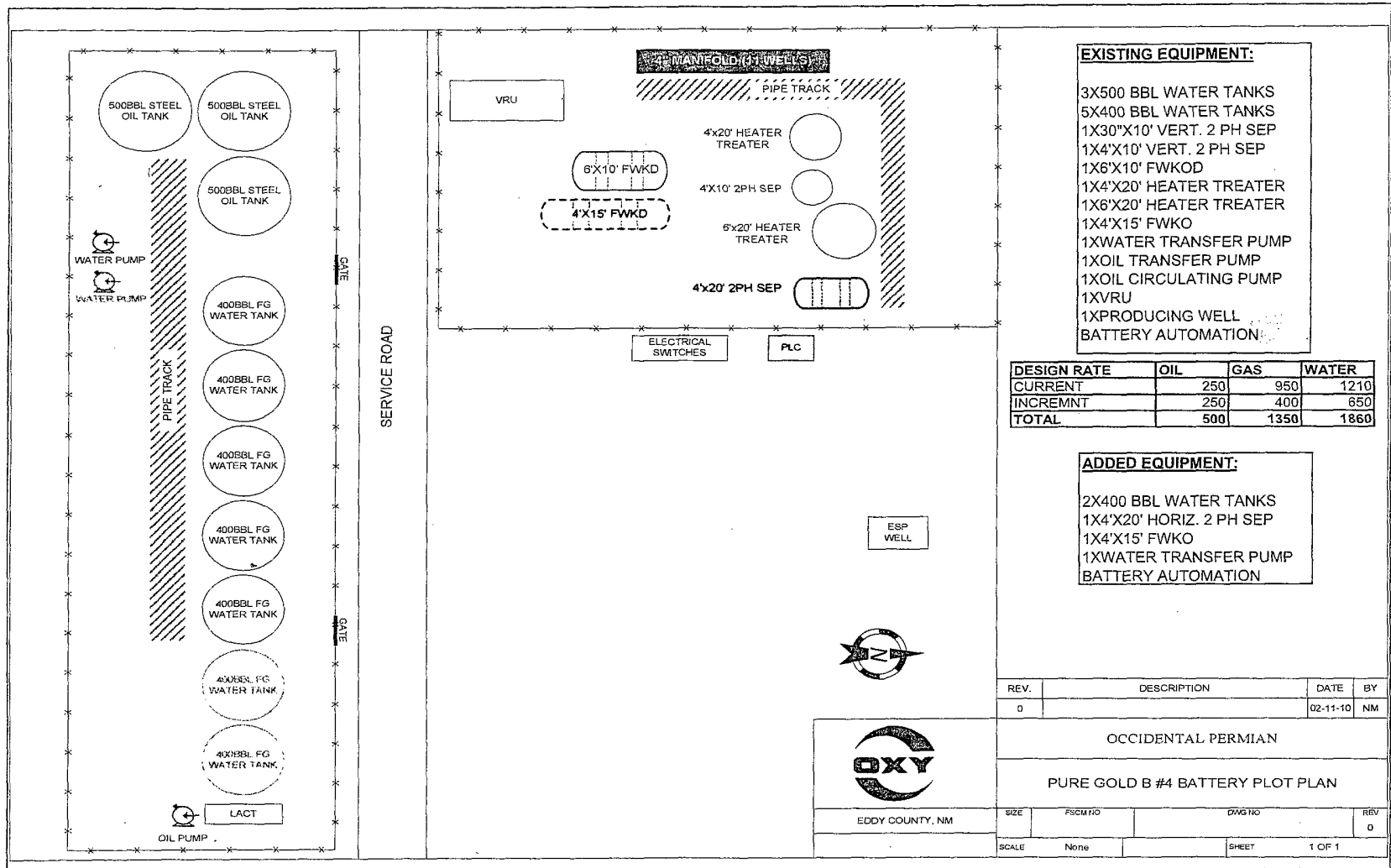
OXY USA Inc
Section 20 Township 23 South, Range 31 East
N.M.P.M., Eddy County, New Mexico

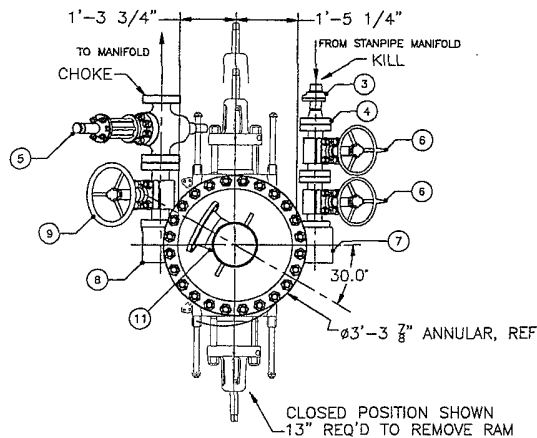


LOCATION FOR MULTIPLE WELLS (POTASH FIELD)



➡ Rig will be moved on this direction





PROPER TORQUE FOR BOLTS

COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE	(FT/LBS)
			CF=0.07	CF=0.13
SPOOLS, ANNULAR & RAMS	11"x5M	1 7/8" DIA.	1890	3330
BLOCKS	3 1/8x5M	1 1/8" DIA.	401	686
CHOKE VALVES	3 1/8x5M	1 1/8" DIA.	401	686
KILL VALVES	2 1/16x5M	7/8" DIA.	188	319

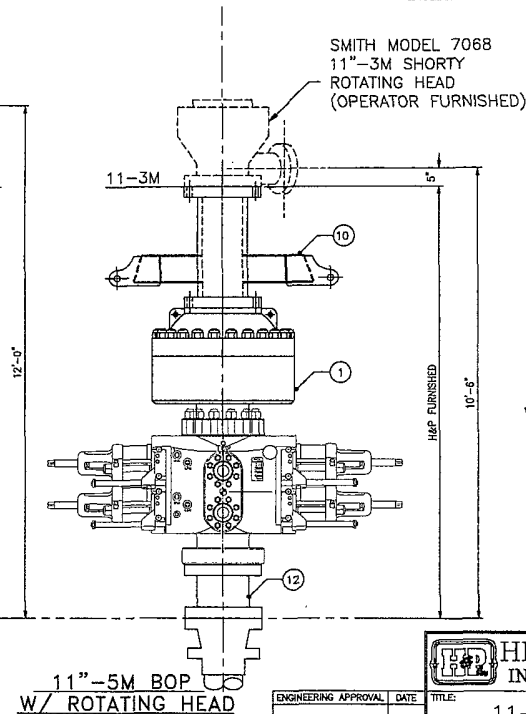
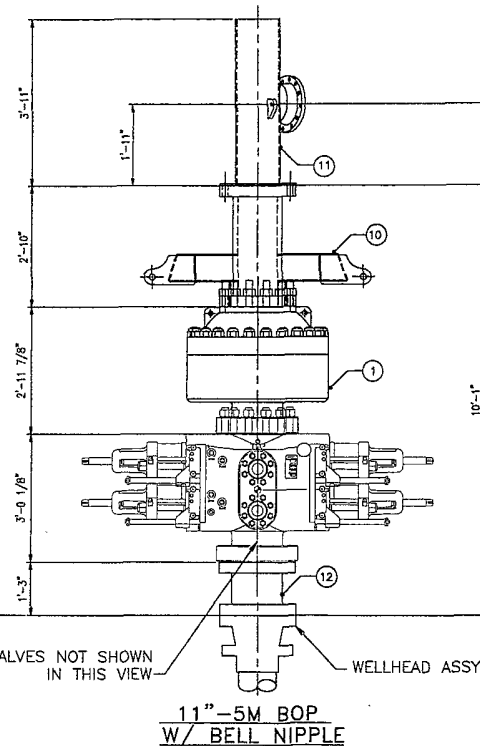
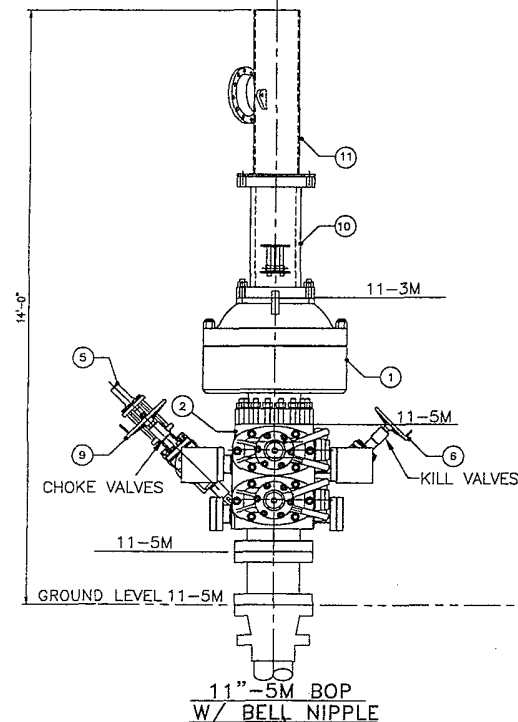
BILL OF MATERIAL

ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
		11-5M BOP ASSEMBLY		
1	1	ANNULAR, 11x3M BOLTED TYPE		6005
2	1	BOP DOUBLE RAM		7600
		RAM ELEMENTS		444
3	1	HAMMER UNION, 2-1502# XXH (BW)		5
4	1	FLANGE, WN 2 1/16-5M API		42
5	1	VALVE, GATE FLS-HCR 3 1/8-5M		396
6	2	VALVE, GATE 2 1/16-5M		350
7	1	90° STUDDED BLOCK, 3 1/8-5M X 2 1/16-5M		240
8	1	90° STUDDED BLOCK, 3 1/8-5M X 3 1/8-5M		250
9	2	VALVE, GATE 3 1/8-5M		720
10	1	BELL NIPPLE BOP LIFTING SECTION	WC FM-H-318.01A	780
11	1	BELL NIPPLE EXTENSION	WC FM-H-319.01A	396
12	1	11"-5M x 11"-5M x 1'-3" LONG SPACER		600
		SPOOL- WORKING PRESSURE 5000 PSI		

HARDWARE

ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
		RINGS AND BOLTS		400

APPROX. TOTAL WEIGHT = 18,228 LBS.



ISSUED FOR
FABRICATION
August-08-2008
DRAFTSMAN
ENGINEER

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

11-5M BOP EQUIPMENT
GENERAL ARRANGEMENT

CUSTOMER: OXY-PERMIAN
PROJECT: F4M
DRAWN: DUJHNSON DATE: 07/14/08 DWG. NO.: F4M-H-320
REV:

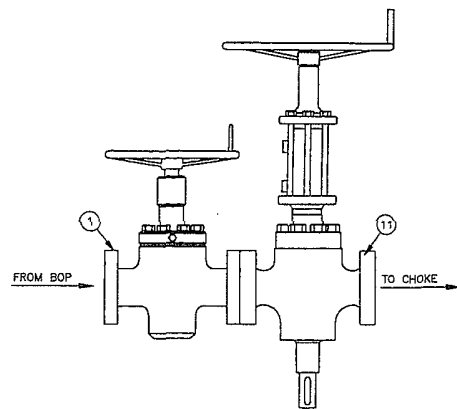
PROPRIETARY

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WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHO-
RIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

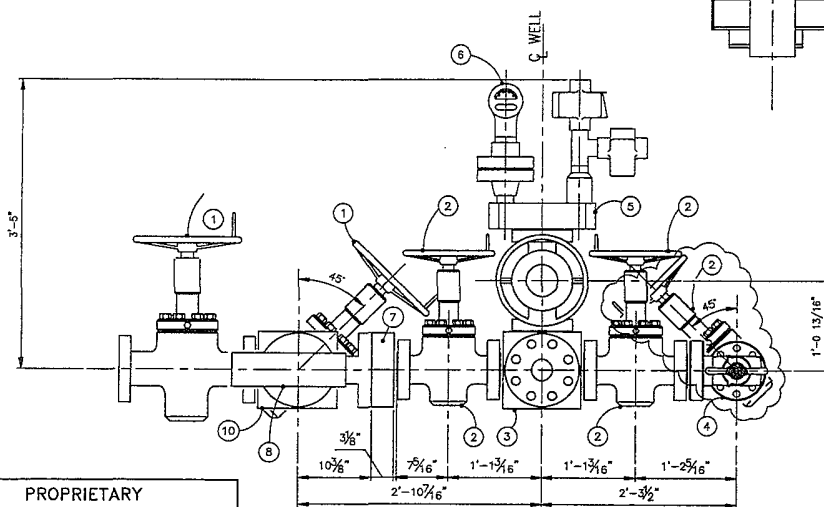
NOTES:

- ALL BOP RAMS SHOWN ARE SHAFFER MODEL LXT
11-5M PSI WP - FLANGED BOTTOM AND STUDDED TOP

ENGINEERING APPROVAL	DATE	TITLE
△		
△		
△	08/08/08	ADDED 1 OF 4 SHITS WAS 1 OF 3
△	07/29/08	SHEET 1 OF 3 WAS 1 OF 5



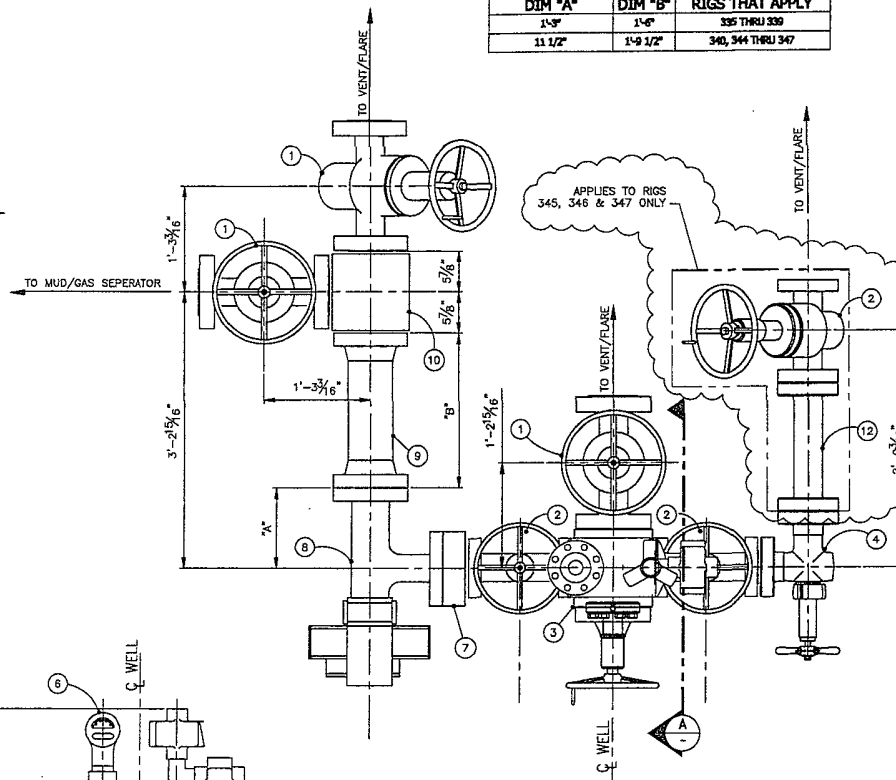
BOP SIDE OUTLET VALVES



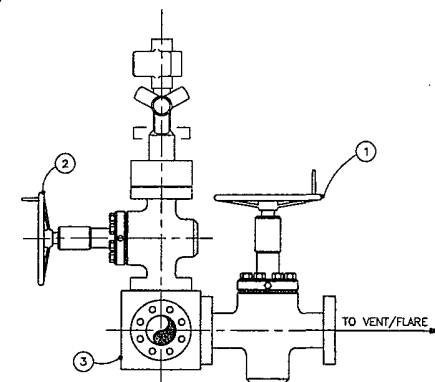
ELEVATION VIEW

DIMENSION NOTATION		
DIM "A"	DIM "B"	RIGS THAT APPLY
1'-0"	1'-0"	335 THRU 339
11 1/2"	1'-0 1/2"	340, 344 THRU 347

- LEGEND**
- ①—3 1/8"-5M FLANGED END GATE VALVE
 - ②—2 1/16"-5M FLANGED END GATE VALVE
 - ③—BLOCK WITH TRANSMITTER FLANGE AND PRESSURE GAUGE
 - ④—2 1/16"-5M ADJUSTABLE CHOKE
 - ⑤—TRANSMITTER FLANGE
 - ⑥—PRESSURE GAUGE
 - ⑦—DSA 2 1/16"-5M x 3 1/16"-10M
 - ⑧—3 1/16"-10M HYDRAULIC CHOKE
 - ⑨—3 1/8"-5M x 3 1/16"-10M SPOOL
 - ⑩—3 1/8"-5M x 3 1/8"-5M STUDDED TEE
 - ⑪—3 1/8"-5M FLANGED END HCR GATE VALVE
 - ⑫—2 1/16"-5M x 2 1/16"-5M SPOOL



PLAN VIEW
CHOKE MANIFOLD



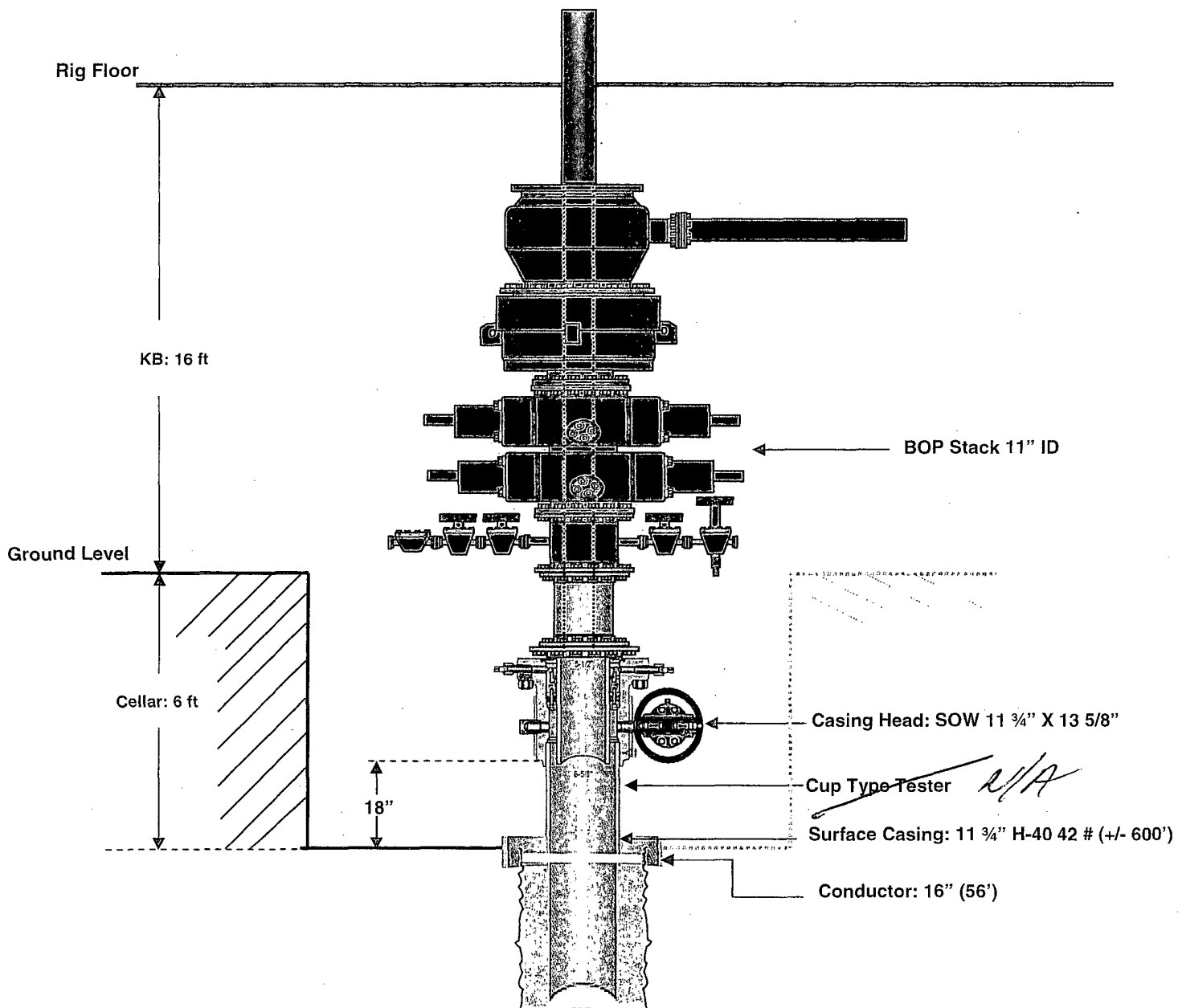
VIEW A-A

ISSUED FOR FABRICATION
October-17-2008
DRAFTSMAN
ENGINEER

ENGINEERING APPROVAL		DATE	TITLE
△			
△			
△	10-17-08	ADDED QTY (1) ITEM 2 & ITEM 12	MNL
△	08-28-08	ADD OIL MEDIUM BOX FOR DIFFERENT SIZE HYD. CHOKE	MNL
△	3/3/08	REVISED CONFIGURATION ADDING ITEMS 7 - 10	RDH

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.	
CHOKE MANIFOLD DETAIL ARRANGEMENT	
CUSTOMER: OXY SOUTH AMERICA	
PROJECT: F4M	
DRAWN: JAV	DATE: 01/07/08
DWG. NO.: 0100070	REV: C

PROPRIETARY
THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER, WITHOUT THE PRIOR WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.



CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.
Equipment : 8 pcs. Choke and Kill Hose with installed couplings
Type : 3" x 10,67 m WPP: 10000 psi
Supplier File Number : 412638
Date of Shipment : April. 2008
Customer : Phoenix Beattie Co.
Customer P.O. : 002491
Referenced Standards
/ Codes / Specifications : API Spec 16 C
Serial No.: 52754,52755,52776,52777,52778,52782

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Signed : 
Position: Q.C. Manager

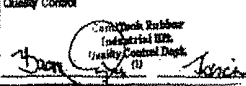
Continental Rubber
Industrial KFT.
Quality Control Dept.
DE

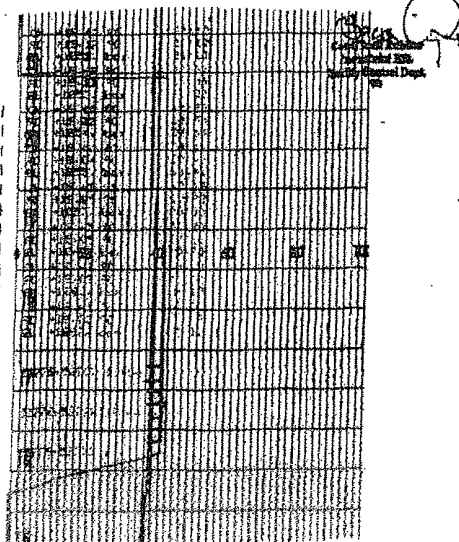
Date: 04. April. 2008

PHOENIX Beattie									
Material Identification Certificate									
PA No	008330	Client	HELMERICH & PAYNE INT'L DRILLING	Client Ref	370-888-001	Page 1			
Part No	Description	Material Desc	Material Spec	Qty	WFO No	Batch No	Test Cert No	Bin No	Drig No
WFO-2-42	1" JIC 10' OF 10' JIC 10'			1	248	4217/REB		2008	
WFO-100	LIFTING & SAFETY EQUIPMENT TO			1	248	4217/REB		2008	
WFO-1000	SAFETY CLAMP 1000 LBS	CARBON STEEL		1	248	4217/REB		2008	
WFO-1000	SAFETY CLAMP 1000 LBS	CARBON STEEL		1	248	4217/REB		2008	

We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattie Corporation.



QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°:	748
PURCHASER: Phoenix Beattie Co.				P.O. N°:	002491
CONTITECH ORDER N°: 412638		HOSE TYPE: 3" ID Choke and KB Hose			
HOSE SERIAL N°: 52777		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Durability: 80 - min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	917 913		AISI 4130 AISI 4130	T7006A 25084	
INFOCHIP INSTALLED				API Spec 18 C Temperature rate: "B"	
All metal parts are fireless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date:	Inspector:	Quality Control:			
04. April. 2009		 Continental Beattie Industrial B2B Quality Control Dept. (1)			



Delivery Note

Customer Order Number	378-369-001	Delivery Note Number	003678	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE 100 ATTN: JOE STEPHENSON - RIG 378 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
R01	J.L.	006338	05/23/2008

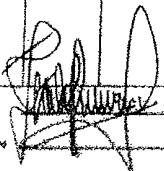
Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP1003A-36-4F1 3" 10K 180 GRK HOSE x 35 FT. OAL. CM 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w B1156 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 18C Full specification Armor Bundling: Included Fire Rating: Not Included Temperature rating: -28 Deg C to +100 Deg C	1	1	0
2	SECK3-HFF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP1003-36-F1 2 x 160mm ID Safety Clamps 2 x 24mm ID Lifting Collars & element C's 2 x 7/16" Stainless Steel wire rope 3/4" OD 4 x 7.75" Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANIZED	1	1	0

Delivery Note

Customer Order Number	378-369-001	Delivery Note Number	003678	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE 100 ATTN: JOE STEPHENSON - RIG 378 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
R01	J.L.	006338	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	OCERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	OCERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	OFFFREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT	1	1	0

Phoenix Beattie Inspection Signature: 

Received in Good Condition: ☒ Signed

Print Name: _____