

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

R-111-POTASH

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		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 #16 ✓	
3b. Phone No. (include area code) 432-685-5717		9. API Well No. 30-015-38555	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1930 FNL 990 FWL SWNW(E) ✓ At proposed prod. zone 1813 1818		10. Field and Pool, or Exploratory Sand Dunes Delaware, West ✓	
11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T23S R31E		12. County or Parish Eddy	
13. State NM		14. Distance in miles and direction from nearest town or post office* 20 miles northeast from Loving, NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 990		16. No. of Acres in lease 640	
17. Spacing Unit dedicated to this well 40		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 876'	
19. Proposed Depth 7910' ND 3061' ND 8000' V ✓		20. BLM/BIA Bond No. on file ES0136	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3322.2' GL ✓		22. Approximate date work will start* 8/1/10	
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 (Signature) /s/ Linda C. Rundell	Name (Printed/Typed)	Date FEB 11 2011
Title STATE DIRECTOR	Office NM STATE OFFICE	

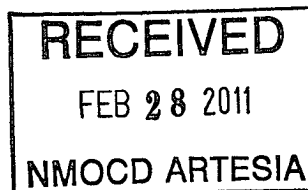
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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



Carlsbad Controlled Water Basin

GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DRILLING PROGRAM

Operator Name/Number: OXY USA Inc. 16696
 Lease Name/Number: Pure Gold B Federal #16 304928 Federal Lease No. NMNM38463
 Pool Name/Number: Sand Dunes Delaware, West 53815
 Surface Location: 1930 FNL 990 FWL SWNW (E) Sec 20 T23S R31E

Proposed TD: 8000' TVD Elevation: 3322.2' GR
 SL - Lat: 32.2917754 Long: 103.8046877 X=663357.3 Y=470267.6 NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

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

<u>Geological Marker</u>	<u>Depth</u>	<u>Type</u>
a. Upper Permian Sand	170'	Water
b. Rustler	462'	
c. Bottom Salt	4022'	
d. Delaware	4068'	Oil
e. Cherry Canyon	4974'	Oil
f. Brushy Canyon	6253'	Oil
g. Bone Springs	7910'	Oil

3. 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>
14-3/4"	500' 470'	11-3/4"	42#	STC	H40	New	5.05	3.93	2.57
10-5/8"	4200' 4050'	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 Pol-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 Pol-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 # 16 Federal Lease No. NMNM38463

Pool Name/Number: Sand Dunes Delaware, West

Surface Location: 1698 FNL 1818 FWL SENW(F) Sec 20 T23S R31E

PBH Location: 1980 FNL 990 FWL SWNW(E) Sec 20 T23S R31E

C-102 Plats: 5/18/10 5/27/10 Elevation: 3325.8' GR

SL - Lat: 32.2924188 Long: 103.8020087 X=664184.0 Y=470505.7 NAD - 1927

PBHL- Lat: 32.2916379 Long: 103.8046873 X=663357.6 Y=470217.6 NAD - 1927

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

Proposed TD: 8061' TMD 7910' 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"	8061' 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/ 450 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.

See COA 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 CR 787 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 south 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
 Replaced 9-10-10
 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 COA

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

5. Pressure Control Equipment:

Surface 0-500'

None

Replaced 5-4-10

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-annulus, 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. The 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.

Proposed Mud Circulation System

Depth	Mud Wt. ppg	Visc sec	Fluid Loss	Type System
0-500' 470'	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: *See COA*

- 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

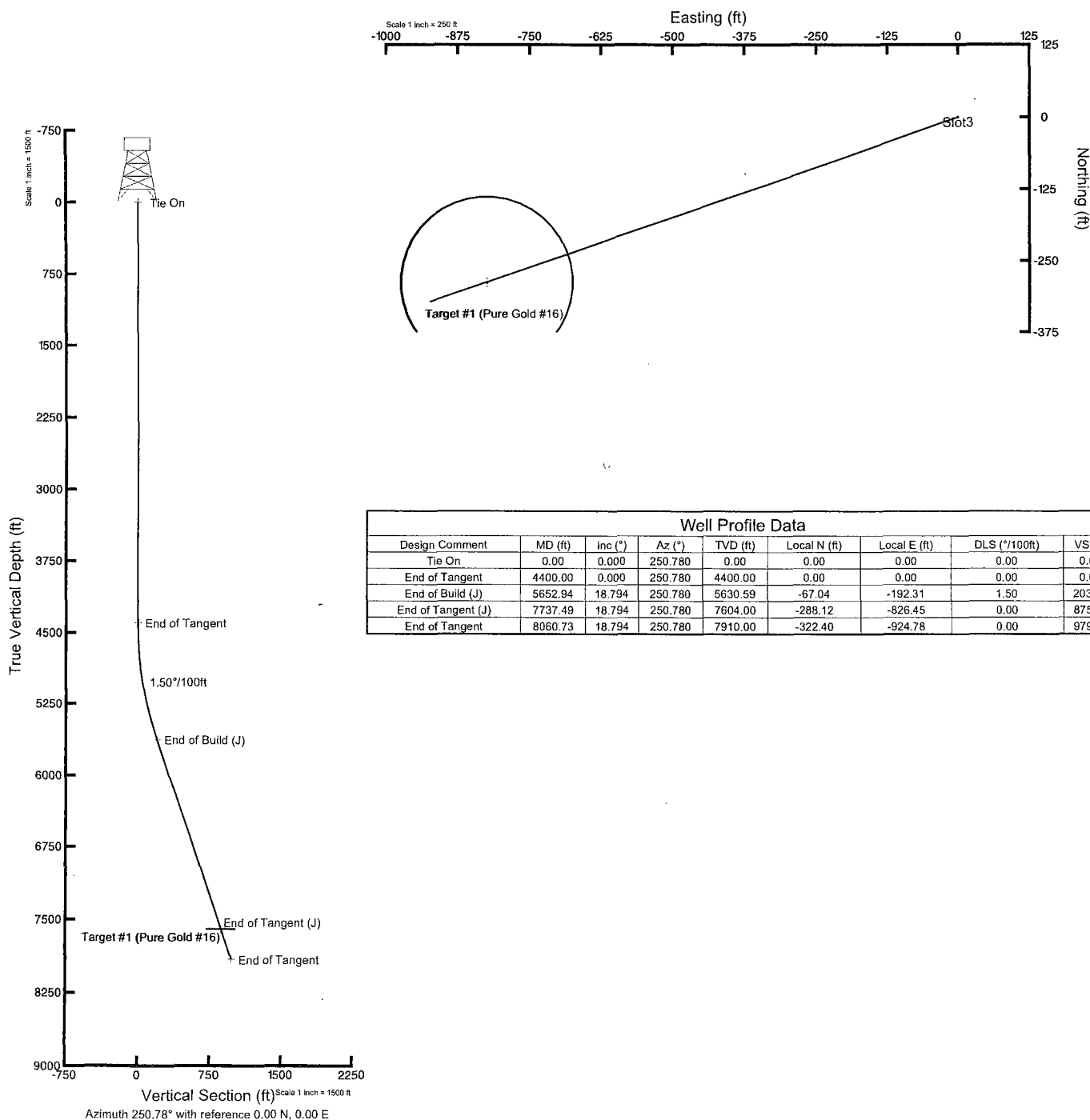
Location: Eddy County - New Mexico
Field: Lost Tank
Facility: TBD

Slot: Slot3
Well: Pure Gold 16
Wellbore: PWP-1



INTEQ

Plot reference wellpath is Pure Gold 16 PWP	
True vertical depths are referenced to Rig on Slot #3 (RT)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on Slot #3 (RT)	North Reference: Grid north
Rig on Slot #3 (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: dumarazi on 6/22/2010





Planned Wellpath Report

Pure Gold 16 PWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot3
Area	Eddy County - New Mexico	Well	Pure Gold 16
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 3:05:41 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	2028.53	-554.43	664184.00	470505.70	32°17'32.707"N	103°48'07.231"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 #3 (RT) to GL (Ground Level)	16.50ft
Horizontal Reference Pt	Slot	Rig on Slot #3 (RT) to Mean Sea Level	3352.50ft
Vertical Reference Pt	Rig on Slot #3 (RT)	GL (Ground Level) to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on Slot #3 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	250.78°



Planned Wellpath Report

Pure Gold 16 PWP

Page 2 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	Slot3
Area	Eddy County - New Mexico	Well	Pure Gold 16
Field	Lost Tank	Wellbore	PWP-1
Facility	TBD		

WELLPATH DATA (84 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	250.780	0.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
100.00†	0.000	250.780	100.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
200.00†	0.000	250.780	200.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
300.00†	0.000	250.780	300.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
400.00†	0.000	250.780	400.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
500.00†	0.000	250.780	500.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
600.00†	0.000	250.780	600.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
700.00†	0.000	250.780	700.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
800.00†	0.000	250.780	800.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
900.00†	0.000	250.780	900.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1000.00†	0.000	250.780	1000.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1100.00†	0.000	250.780	1100.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1200.00†	0.000	250.780	1200.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1300.00†	0.000	250.780	1300.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1400.00†	0.000	250.780	1400.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1500.00†	0.000	250.780	1500.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1600.00†	0.000	250.780	1600.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1700.00†	0.000	250.780	1700.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1800.00†	0.000	250.780	1800.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
1900.00†	0.000	250.780	1900.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2000.00†	0.000	250.780	2000.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2100.00†	0.000	250.780	2100.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2200.00†	0.000	250.780	2200.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2300.00†	0.000	250.780	2300.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2400.00†	0.000	250.780	2400.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2500.00†	0.000	250.780	2500.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2600.00†	0.000	250.780	2600.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2700.00†	0.000	250.780	2700.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2800.00†	0.000	250.780	2800.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
2900.00†	0.000	250.780	2900.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3000.00†	0.000	250.780	3000.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3100.00†	0.000	250.780	3100.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3200.00†	0.000	250.780	3200.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3300.00†	0.000	250.780	3300.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3400.00†	0.000	250.780	3400.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3500.00†	0.000	250.780	3500.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3600.00†	0.000	250.780	3600.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3700.00†	0.000	250.780	3700.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3800.00†	0.000	250.780	3800.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
3900.00†	0.000	250.780	3900.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
4000.00†	0.000	250.780	4000.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
4100.00†	0.000	250.780	4100.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
4200.00†	0.000	250.780	4200.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
4300.00†	0.000	250.780	4300.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00
4400.00†	0.000	250.780	4400.00	0.00	0.00	0.00	664184.00	470505.70	32°17'32.707"N	103°48'07.231"W	0.00



Planned Wellpath Report

Pure Gold 16 PWP

Page 3 of 4



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot3
Area	Eddy County - New Mexico	Well	Pure Gold 16
Field	Lost Tank	Wellbore	PWP-1
Facility	TBD		

WELLPATH DATA (84 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	250.780	4499.99	1.31	-0.43	-1.24	664182.76	470505.27	32°17'32.703"N	103°48'07.245"W	1.50
4600.00†	3.000	250.780	4599.91	5.23	-1.72	-4.94	664179.06	470503.98	32°17'32.691"N	103°48'07.289"W	1.50
4700.00†	4.500	250.780	4699.69	11.77	-3.88	-11.12	664172.88	470501.82	32°17'32.670"N	103°48'07.361"W	1.50
4800.00†	6.000	250.780	4799.27	20.92	-6.89	-19.76	664164.24	470498.81	32°17'32.640"N	103°48'07.462"W	1.50
4900.00†	7.500	250.780	4898.57	32.68	-10.76	-30.86	664153.15	470494.94	32°17'32.602"N	103°48'07.591"W	1.50
5000.00†	9.000	250.780	4997.54	47.03	-15.48	-44.41	664139.60	470490.22	32°17'32.556"N	103°48'07.749"W	1.50
5100.00†	10.500	250.780	5096.09	63.96	-21.06	-60.40	664123.61	470484.65	32°17'32.502"N	103°48'07.936"W	1.50
5200.00†	12.000	250.780	5194.16	83.47	-27.48	-78.82	664105.19	470478.22	32°17'32.439"N	103°48'08.151"W	1.50
5300.00†	13.500	250.780	5291.70	105.54	-34.74	-99.66	664084.35	470470.96	32°17'32.369"N	103°48'08.394"W	1.50
5400.00†	15.000	250.780	5388.62	130.15	-42.85	-122.90	664061.11	470462.86	32°17'32.289"N	103°48'08.665"W	1.50
5500.00†	16.500	250.780	5484.86	157.30	-51.78	-148.53	664035.48	470453.92	32°17'32.202"N	103°48'08.964"W	1.50
5600.00†	18.000	250.780	5580.36	186.95	-61.54	-176.53	664007.48	470444.16	32°17'32.107"N	103°48'09.291"W	1.50
5652.94	18.794	250.780	5630.59	203.66	-67.04	-192.31	663991.71	470438.66	32°17'32.053"N	103°48'09.475"W	1.50
5700.00†	18.794	250.780	5675.14	218.82	-72.03	-206.62	663977.39	470433.67	32°17'32.005"N	103°48'09.642"W	0.00
5800.00†	18.794	250.780	5769.81	251.04	-82.64	-237.04	663946.97	470423.07	32°17'31.901"N	103°48'09.997"W	0.00
5900.00†	18.794	250.780	5864.48	283.25	-93.24	-267.47	663916.55	470412.46	32°17'31.798"N	103°48'10.352"W	0.00
6000.00†	18.794	250.780	5959.15	315.47	-103.85	-297.89	663886.13	470401.86	32°17'31.694"N	103°48'10.707"W	0.00
6100.00†	18.794	250.780	6053.82	347.69	-114.45	-328.31	663855.71	470391.25	32°17'31.591"N	103°48'11.062"W	0.00
6200.00†	18.794	250.780	6148.48	379.90	-125.06	-358.73	663825.29	470380.65	32°17'31.487"N	103°48'11.417"W	0.00
6300.00†	18.794	250.780	6243.15	412.12	-135.67	-389.15	663794.87	470370.04	32°17'31.384"N	103°48'11.772"W	0.00
6400.00†	18.794	250.780	6337.82	444.34	-146.27	-419.57	663764.45	470359.44	32°17'31.281"N	103°48'12.127"W	0.00
6500.00†	18.794	250.780	6432.49	476.55	-156.88	-449.99	663734.04	470348.83	32°17'31.177"N	103°48'12.482"W	0.00
6600.00†	18.794	250.780	6527.16	508.77	-167.48	-480.41	663703.62	470338.23	32°17'31.074"N	103°48'12.837"W	0.00
6700.00†	18.794	250.780	6621.83	540.99	-178.09	-510.83	663673.20	470327.62	32°17'30.970"N	103°48'13.192"W	0.00
6800.00†	18.794	250.780	6716.49	573.20	-188.69	-541.26	663642.78	470317.02	32°17'30.867"N	103°48'13.547"W	0.00
6900.00†	18.794	250.780	6811.16	605.42	-199.30	-571.68	663612.36	470306.41	32°17'30.763"N	103°48'13.902"W	0.00
7000.00†	18.794	250.780	6905.83	637.64	-209.90	-602.10	663581.94	470295.81	32°17'30.660"N	103°48'14.257"W	0.00
7100.00†	18.794	250.780	7000.50	669.85	-220.51	-632.52	663551.52	470285.20	32°17'30.556"N	103°48'14.612"W	0.00
7200.00†	18.794	250.780	7095.17	702.07	-231.11	-662.94	663521.10	470274.60	32°17'30.453"N	103°48'14.967"W	0.00
7300.00†	18.794	250.780	7189.83	734.29	-241.72	-693.36	663490.68	470263.99	32°17'30.349"N	103°48'15.322"W	0.00
7400.00†	18.794	250.780	7284.50	766.50	-252.33	-723.78	663460.26	470253.39	32°17'30.246"N	103°48'15.677"W	0.00
7500.00†	18.794	250.780	7379.17	798.72	-262.93	-754.20	663429.84	470242.79	32°17'30.143"N	103°48'16.032"W	0.00
7600.00†	18.794	250.780	7473.84	830.94	-273.54	-784.62	663399.42	470232.18	32°17'30.039"N	103°48'16.387"W	0.00
7700.00†	18.794	250.780	7568.51	863.16	-284.14	-815.05	663369.00	470221.58	32°17'29.936"N	103°48'16.742"W	0.00
7737.49	18.794	250.780	7604.00†	875.23	-288.12	-826.45	663357.60	470217.60	32°17'29.897"N	103°48'16.875"W	0.00
7800.00†	18.794	250.780	7663.18	895.37	-294.75	-845.47	663338.59	470210.97	32°17'29.832"N	103°48'17.097"W	0.00
7900.00†	18.794	250.780	7757.84	927.59	-305.35	-875.89	663308.17	470200.37	32°17'29.729"N	103°48'17.452"W	0.00
8000.00†	18.794	250.780	7852.51	959.81	-315.96	-906.31	663277.75	470189.76	32°17'29.625"N	103°48'17.807"W	0.00
8060.73	18.794	250.780	7910.00	979.37	-322.40	-924.78	663259.27	470183.32	32°17'29.562"N	103°48'18.022"W	0.00



Planned Wellpath Report

Pure Gold 16 PWP

Page 4 of 4



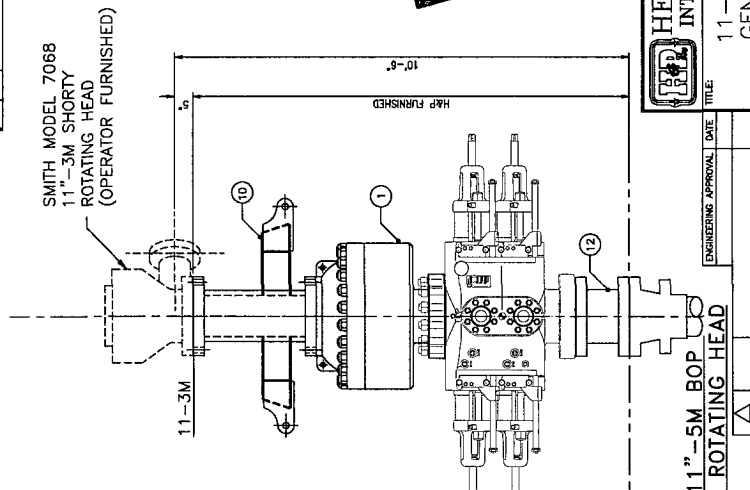
INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot3
Area	Eddy County - New Mexico	Well	Pure Gold 16
Field	Lost Tank	Wellbore	PWP-1
Facility	TBD		

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 #16)	7737.49	7604.00	288.12	826.45	663357.60	470217.60	32°17'29.897"N	103°48'16.875"W	point



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

BILL OF MATERIAL			PART NUMBER	WEIGHT
ITEM NO	QUANTITY	DESCRIPTION		
1	1	11-SM BOP ASSEMBLY		6005
2	1	ANNULAR, 11.25" BOLTED TYPE		7600
3	1	BOP DOUBLE RAM		444
4	1	RAM ELEMENTS		5
5	1	HAMMER UNION, 2-15023 3XH (9M)		42
6	1	FLANGE, WR 2 1/8-SM API		398
7	1	VALVE, DATE FLS-HCR 3 1/8-SM		350
8	1	VALVE, DATE 2 1/8-SM		240
9	1	90° STUBBED BLOCK, 3 1/8-SM X 2 1/16-SM		250
10	1	90° STUBBED BLOCK, 3 1/8-SM X 3 1/8-SM		720
11	1	VALVE, DATE 3 1/8-SM		760
12	1	BELL NIPPLE BOP LIFTING SECTION	MC FM-H-3183DA	395
13	1	BELL NIPPLE EXTENSION	MC FM-H-3183DA	600
14	1	11-SM X 11-SM X 1'-3" LONG SPACER		
15	1	SPIDER - 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 _____

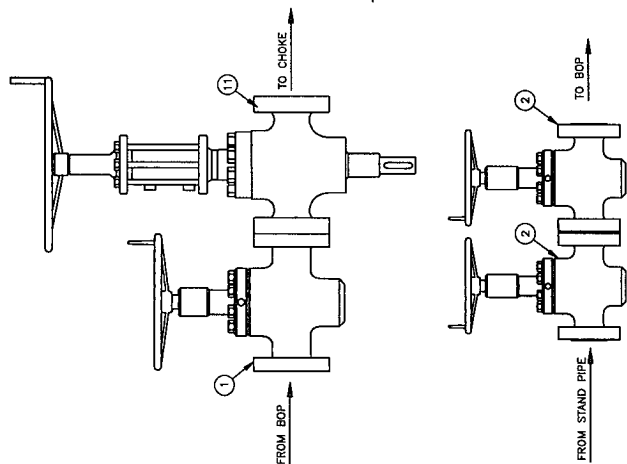
	HELMERT & PAYNE INTERNATIONAL DRILLING CO.	
	11-5M BOP EQUIPMENT GENERAL ARRANGEMENT	
TITLE:		
CUSTOMER: OXY-PERMAN		
PROJECT: FAM		
DRAWN: DUCHINSON DATE:	DES: 07/14/08	INC. NO.: FAM-U-300 REV: 10

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

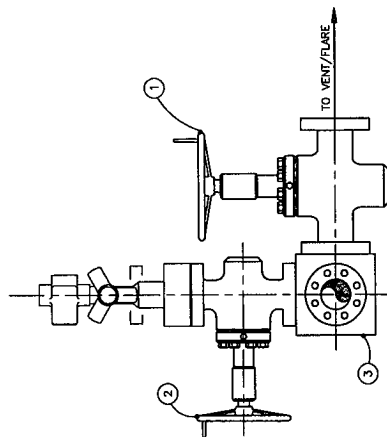
PROPRIETARY

DIMENSION NOTATION		
DIM "A"	DIM "B"	RIGS THAT APPLY
1'-0"	1'-6"	335 TR6U 339
11 1/2"	1'-9 1/2"	340, 344 TR6U 347

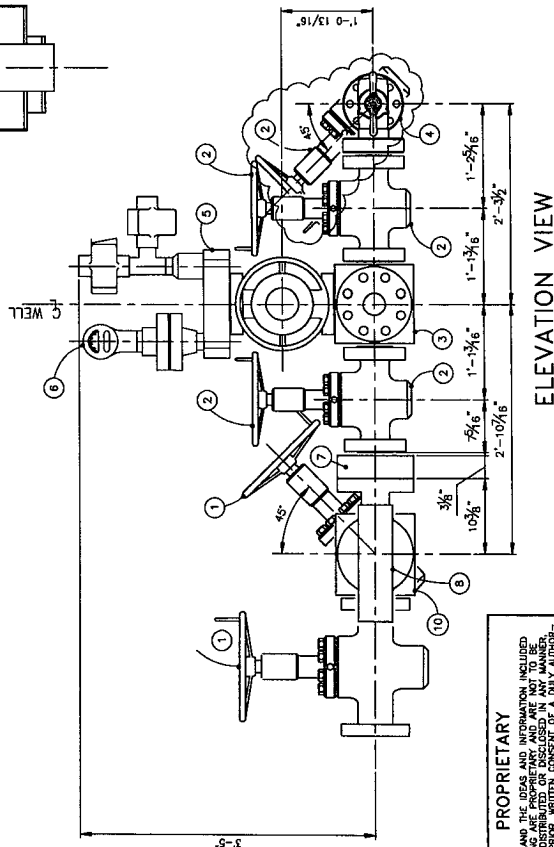
- ①—3 1/8"—5M FLANGED END GATE VALVE
- ②—2 1/16"—5M FLANGED END GATE VALVE
- ③—BLOCK WITH TRANSMITTER FLANGE AND PRESSURE GAUGE
- ④—2 1/16"—5M ADJUSTABLE CHOKE
- ⑤—TRANSMITTER FLANGE
- ⑥—PRESSURE GAUGE
- ⑦—DSA 2 1/16"—5M x 3 1/16"—10M
- ⑧—3 1/16"—10M HYDRAULIC CHOKE
- ⑨—3 1/8"—5M x 3 1/16"—10M SPOOL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



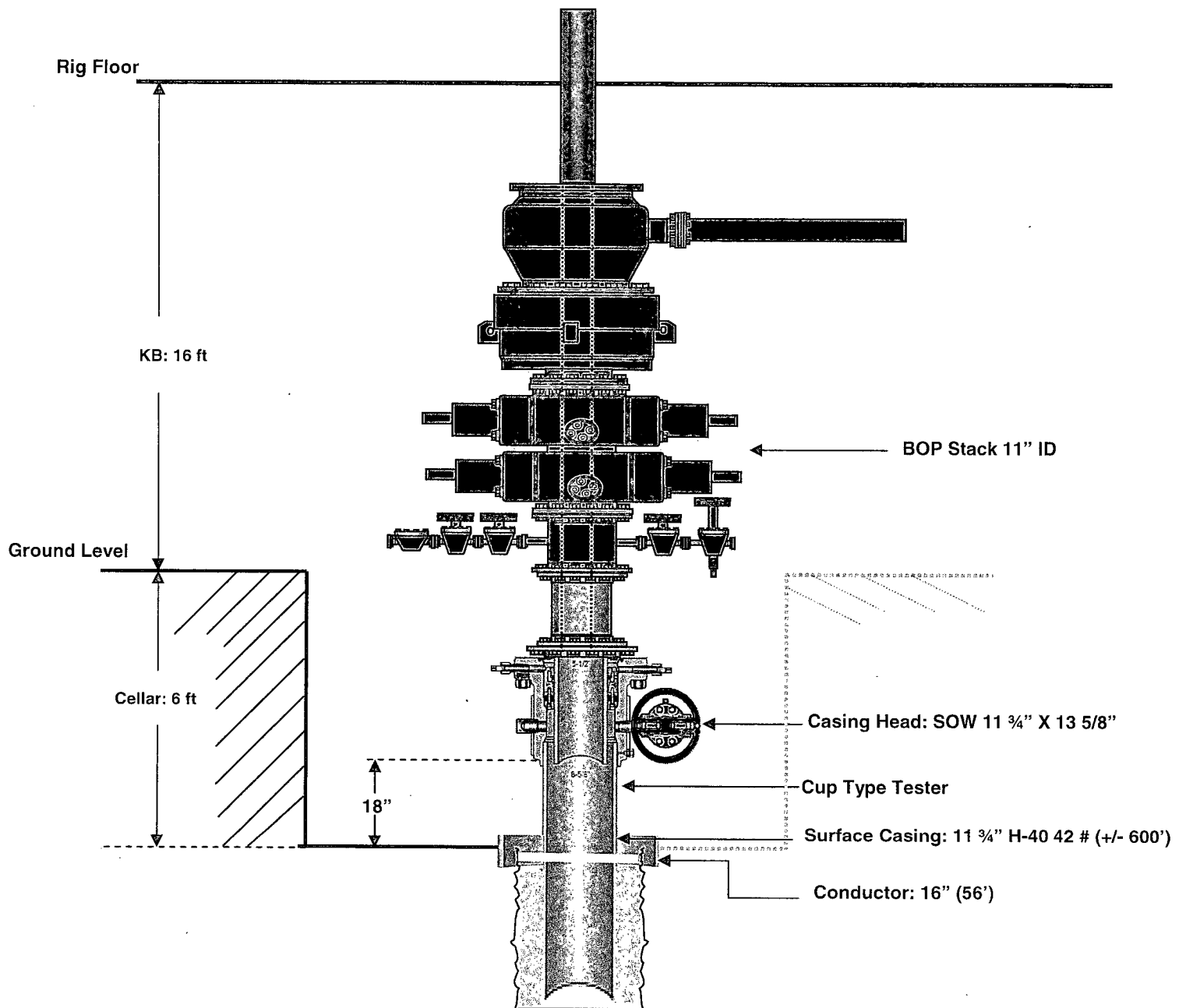
VIEW A-A



ELEVATION VIEW

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED THEREIN ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, COPIED, DISTRIBUTED OR DISCLOSED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF A DULUTH AUTHOR. ANY VIOLATION OF THIS NOTICE SHALL BE SUBJECT TO THE FOLLOWING REMEDY:

[illegible]



CERTIFICATE OF CONFORMITY

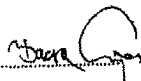
Supplier : CONTITECH RUBBER INDUSTRIAL KFT.
Equipment : 8 pcs. Choke and Kill Hose with installed couplings
Type : 3" x 10,67 m WP: 10000 psi
Supplier File Number : 412638
Date of Shipment : April 2008
Customer : Phoenix Beattie Co.
Customer P.O. : 002491
Referenced Standards
/ Codes / Specifications : 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 :



Continental Rubber
Industrial Kft.
Quality Control Dept.
HU

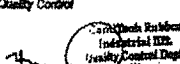
Date: 04. April 2008

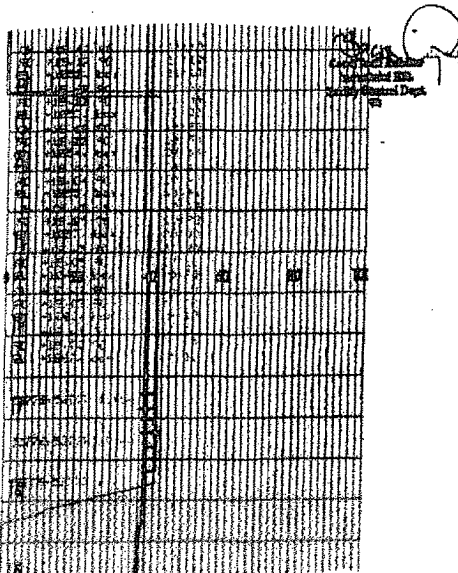
Position: Q.C. Manager

Phoenix Beattie Material Identification Certificate										
PA No	006330	Client	HELMERICH & PAYNE INT'L DRILLING CORP	Ref	370-366-001	Page	1			
Part No	Description	Material Desc	Material Spec	Qty	WFO No	Batch No	Test Cert No	Bin No	Org No	Issue No
WFO00000-00-001	3" 100' LUG CHOKES & KILL HOSE			1	2402	40777/0000		WFO00		
00000-0000	LIFTING & SAFETY EQUIPMENT TO			1	2402	000000		00000		
00000-0000	SAFETY CLAMP 10000 PSI	CHOKER STEEL		1	2402	00000		000		
00000-0000	SAFETY CLAMP 10000 PSI	CHOKER STEEL		1	2402	00000		000		

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°: 746	
PURCHASER: Phoenix Beattie Co.				P.O. N°: 002491	
CONTITECH ORDER N°: 412838		HOSE TYPE: 3" ID		Choice and KBI 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		Duralex 80 - min.	
Problems test with water at ambient temperature See attachment (1 page) ↑ 10 mm = 10 MPa → 10 mm = 28 MPa					
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	917	913	AISI 4130	T7998A	
			AISI 4130	29984	
INFOCHIP INSTALLED				API Spec 16 C Temperature rate: "B"	
All metal parts are finished					
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. 2008		 Continental Contitech Industrial Hose Quality Control Dept. 13			





Phoenix Beattie Corp

12500 Brittonville Park Drive
Houston, TX 77060
Tel: (281) 307-4540
Fax: (281) 307-4540
E-mail: info@phoenixbeattie.com
www.phoenixbeattie.com

Form No 100/12

Delivery Note

Customer Order Number	376-369-001	Delivery Note Number	903878	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1407 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 376 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JUL	006339	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP100C3A-36-AF1 3" 10K 100 CAR HOSE x 36FT OAL CM 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 100psi API Spec 6A Type 6BX Flange End 2: 4.1/16" 100psi API Spec 6A Type 6BX Flange c/w B0156 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 18C Full specification Anchor Guarding: Included Fire Rating: Not Included Temperature rating: -28 Deg C to +108 Deg C	1	1	0
2	SEDC3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP100C3-36-AF1 2 x 180mm ID Safety Clamps 2 x 24mm ID Lifting Collars & 6-1/2" C's 2 x 7/8" Stainless Steel wire rope 3/4" OD 4 x 7/8" Shackles	1	1	0
3	SC725-206CS SAFETY CLAMP 200MM 7.25T C/S GALVANIZED	1	1	0

Form No 100/12



Phoenix Beattie Corp

12500 Brittonville Park Drive
Houston, TX 77060
Tel: (281) 307-4540
Fax: (281) 307-4540
E-mail: info@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	376-369-001	Delivery Note Number	003878	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1407 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 376 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JUL	006339	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4	SC725-138CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	00CERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	00CERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	00FREIGHT ENCLOSURE / 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: Signature

Print Name

Date

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days.
Returns may be subject to a handling charge.