

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

JUN 30 2009

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

OXY USA Inc.

16696

3a. Address

P.O. Box 50250, Midland, TX 79710-0250

3b. Phone No. (include area code)

432-685-5717

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)

660 FNL 990 FEL NENE(A) Sec 28 T23S R31E

5. Lease Serial No.

NM40659

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

Pure Gold D Fed 13

9. API Well No

30-015-35800

10. Field and Pool, or Exploratory Area

Sand Dunes Delaware, West

11. County or Parish, State

Eddy NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- |  |   |  |  |
|--|---|--|--|
| <input type="checkbox"/> Acidize                 | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                |
| <input type="checkbox"/> Alter Casing            | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>Amend</u> |
| <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>Drilling Plan</u>                                   |
| <input type="checkbox"/> Convert to Injection    | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |  |

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

See attached.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

David Stewart

Title

Sr. Regulatory Analyst

Date

6/16/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

APPROVED

JUN 24 2009

Date

WESLEY W. INGRAM  
PETROLEUM ENGINEER

**OXY USA Inc.**  
**Pure Gold D # 13**  
**660 FNL 990 FEL NENE(A) Sec 28 T23S R31E**  
**Lat N 32.280761°N Long W103.776929°W**  
**Eddy County, New Mexico**  
**DRILLING PROGRAM**

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**1. Geologic Name of Surface Location:**

A. Permian

**2. Estimated Tops of Geological Markers and Depth of Anticipated Fresh Water, Oil or Gas:**

Formation	Depth	Expected Fluid
Rustler	480'	
Top Salt	820'	
Bottom Salt	4012'	
Delaware	4230'	
Bell Canyon	4250'	
Cherry Canyon	5140'	
Brushy Canyon	6340'	
Bone Spring	8060'	Oil
TD	8300'	

Only the target Bone Spring Sands are expected to yield oil or gas in measurable quantities. All freshwater sands will be protected by setting 11 3/4" casing @ 570', 20" into the Rustler formation, and circulating cement. The salt section will be protected by setting 8 5/8" intermediate casing @ 4250', 20" into the Delaware formation, and circulating cement to surface. Production casing will be 5 1/2" and the cement will be circulated to surface.

**3. Casing Program. Design criteria and casing load assumptions:**

Hole Size	Depth Interval	Casing OD	Weight PPF	Grade	Conn
14 3/4"	0' - 570'	11 3/4"	42	H-40	STC
10 5/8"	0' - 4250'	8 5/8"	32	J-55	LTC
7 7/8"	0' - 8300'	5 1/2"	17	J-55	LTC

All pipe will be new and manufactured to API specs.

### Surface Casing

- Tension: A 1.6 design factor utilizing the effects of buoyancy (8.34ppg)
- Collapse: A 1.125 design factor with full internal evacuation and a collapse force equal to the mud gradient in which the casing will be run (0.433 psi/ft). The effects of axial load on collapse will be considered.
- Burst: A 1.2 design factor with a surface pressure equal to the fracture gradient at setting depth less a gas gradient to the surface. Internal burst force at the shoe will be fracture pressure at that depth. Back up pressure will be formation pore pressure.

### Intermediate Casing:

- Tension: A 1.6 design factor utilizing the effects of buoyancy (10.0 ppg)
- Collapse: A 1.125 design factor with full internal evacuation, and a collapse force equal to the mud gradient in which the casing will be run (0.478 psi/ft). The effects of axial load on collapse will be considered.
- Burst: A 1.2 design factor with a surface pressure equivalent to the fracture gradient at setting depth less a gradient to the surface to 0.1 psi/ft. Internal burst force at the shoe will be fracture pressure at that depth. Back pressure will be formation pore pressure.

### Production Casing:

- Tension: A 1.6 design factor utilizing the effects of buoyancy (8.6 ppg)
- Collapse: A 1.125 design factor with full internal evacuation, and a collapse force equal to the mud gradient in which the casing will be run (0.447 psi/ft). The effects of axial load on collapse will be considered.
- Burst: A 1.2 design factor with a surface pressure equivalent to the fracture gradient at setting depth less a gradient to the surface to 0.1 psi/ft. Internal burst force at the shoe will be fracture pressure at that depth. Back pressure will be formation pore pressure.

## **4. Cementing Program:**

Interval	Amount sx	Ft of Fill	Type	Gal/Sx	PPG	Ft3/sx
<b>Surface (TOC: Surface)</b>						
<b>Lead:</b> 0'-270' (150% Excess)	170	270'	Halliburton Premium Plus + 4% Bentonite, 2% Calcium Chloride, 0.125 pps Poly-E-Flake	9.18	13.5	1.75
<b>Tail</b> 270' – 570 (150% Excess)	270	300'	Halliburton Premium Plus + 2% CaCl <sub>2</sub>	6.39	14.8	1.35

<b>Intermediate (TOC: Surface)</b>						
<b>Lead:</b> 0' – 3,771' (150% Excess)	980	3,771'	Halliburton Light Premium Plus cement + 5 pps Gilsonite, 0.125 pps Poly-E-Flake, 5% Salt	9.57	12.9	1.88
<b>Tail:</b> 3,771' – 4,250' (150% Excess)	200	479'	Halliburton Premium Plus	6.34	14.8	1.33
<u>Two Stage DV Tool @ 4,300' and Circulate Cement to Surface</u>						
<b>Production (TOC: 4,300')</b>						
<b>1<sup>st</sup> Stage</b>						
<b>Lead:</b> 4,300' – 6,000' (150% Excess)	270	1,700'	Halliburton Interfill H + 5 pps Gilsonite, and 0.125 pps Poly-E-Flake	16.26	11.5	2.80
<b>Tail:</b> 6,000' – 8,300' (100% Excess)	490	2,300'	Halliburton Super H Cement containing 0.5% LAP-1, 0.4% CFR-3, 0.25 pps D-Air 3000, and 5 pps Gilsonite	8.10	13.2	1.66
<b>Production (TOC: Surface)</b>						
<b>2<sup>nd</sup> Stage</b>						
<b>Lead:</b> 0' – 3,987' (15% Excess)	300	3,987'	Halliburton Interfill C + 0.5% LAP-1, 0.25 pps D-AIR 3000	16.64	11.5	2.79
<b>Tail:</b> 3,987' – 4,300' (150% Excess)	100	313'	Halliburton premium Plus	6.34	14.8	1.33

**Cement Summary:** ← See COA

Casing	Hole Size	Interval	TOC	Comp.Strength (24 hrs)
11 3/4" 42# H-40, STC	14 3/4"	0' – 570'	Surface	689 psi Lead 2500 psi Tail
8 5/8" 32# J-55, LTC	10 5/8"	0' – 4,250'	Surface	650 psi Lead 1343 psi Tail
5 1/2" 17# J-55, LTC	7 7/8"	0' – 8,300'	Surface	118 psi Lead 1528 psi Tail

## 5. Pressure Control Equipment

Based on the maximum expected BHP of 3500 psi at 8300' TD (MASP= 2670 psi, 7 7/8" hole size), the blowout prevention equipment will have a working pressure rating of 5000 psi (11") and will consist of (1) a double ram blowout preventer (BOP) with the bottom rams as the blinds and the top rams sized for 4 1/2" drill pipe; (2) annular preventer; (3) rotating head; and (4) choke manifold. Both the ram and annular preventer will be hydraulically operated.

The 11" 5000 psi blowout prevention equipment will be installed and operational after setting the 11 3/4" surface casing; 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. All equipment will be tested to 1000 psi (high), and 250 psi (low). (MASP + 500 = 841 psi)

See COA

The BOP and ancillary BOPE will be tested by a third party upon installation to the 85/8" 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).

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.

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. Mud Program

Interval	Type	MW	PV	FL
0 – 570'	FW – Gel Spud	8.4 – 8.8	2-4	NC
570' – 4250'	Brine w/ sweeps	9.8 – 9.9	2-3	NC
4250' – 8000'	Fresh Water/Gel	8.4 – 8.5	1	NC
8000' – 8300'	Fresh Water/Gel	8.5 – 8.6	6-8	15-20

The necessary mud products for weight addition and lost circulation control will be on location at all times.

## 7. Auxiliary Well Control and Monitoring Equipment:

- An upper and lower top drive valve will be in the Top Drive at all times.
- A full opening drill pipe safety valve having the correct connections for the string in use will be on the floor at all times.
- Hydrogen Sulfide monitoring equipment will be installed and operational before drilling out the surface casing shoe and remain operational until production casing is cemented. A H<sub>2</sub>S Contingency Plan was included with the original permit filing.

## 8. Logging, Coring & Testing Program

← see COA

- No drill stem testing is planned.
- Open Hole Logging: Total Depth to Intermediate Casing Shoe: Dual Laterlog – Microguard, DS Neutron / Spectral Density log with GR and Caliper.
- No conventional coring operations are planned.

## 9. Potential Hazards

No abnormally high pressured zones are expected. Hydrogen Sulfide is not expected to be encountered in this wellbore, however should this occur operations will comply with the provisions of Onshore Oil and Gas Order No. 6.

## 10. Anticipated Starting Date and Duration of Operations

Road and location construction have been completed. Commencement of operations will be dependent upon the availability of suitable equipment but may begin as early as the fourth week of June, 2009. Drilling operations are expected to require 19 days from spud to rig release. An additional 30 days may be needed for completion operations and construction of surface production facilities.

30-015-35800

ATS-07-514

EA-07-1005

Form 310-3  
(November 1983)  
(formerly 310-3)

R-III-POTASH OCD-ARTESIA

SUBMIT IN TRI "ATE"  
(Other instruct. on reverse side)Form approved  
Budget Bureau No. 1004-0136  
Expires August 31, 1985UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

E-14

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL WELL ☒GAS WELL ☐OTHER ☐SINGLE ZONE ☒MULTIPLE ZONE ☐

## 2. NAME OF OPERATOR

POGO PRODUCING COMPANY

## 3. ADDRESS OF OPERATOR

P.O. BOX 10340, MIDLAND, TEXAS 79702

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

660' FNL AND 990' FEL OF SECTION 28

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

18 MILES EAST OF LOVING, NEW MEXICO

## 16. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

660'

## 16. NO. OF ACRES IN LEASE

640

## 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1320'

## 19. PROPOSED DEPTH

8300'

## 17. NO. OF ACRES ASSIGNED TO THIS WELL

BLM Bond #

40 WYB 000 238

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3365' GR

## 22. APPROX. DATE WORK WILL START

UPON APPROVAL

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5#	550' <i>CON</i>	SUFFICIENT TO CIRCULATE/WITNESS
11"	8-5/8"	24# & 32#	4100'	SUFFICIENT TO CIRCULATE/WITNESS
7-7/8"	5-1/2"	15.5# & 17#	8300'	SUFFICIENT TO CIRCULATE (SEE STIPS)

AFTER SETTING PRODUCTION CASING, PAY ZONE WILL BE PERFORATED AND STIMULATED AS NECESSARY.

SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA  
BOP SKETCH  
SURFACE USE AND OPERATIONS PLANRECEIVED  
FEB 22 6 13 AM '93SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Richard I. Wright TITLE Division Operations Supr. DATE February 16, 1993  
(This space for Federal or State office use)

NOS REC'D: 2/5/93

PERMIT NO.

APPROVAL DATE

APPROVED BY

Jesse J. Juen

TITLE STATE DIRECTOR

DATE

9-507

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

APPROVAL FOR TWO YEARS

\*See Instructions On Reverse Side

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS

AND SPECIAL STIPULATIONS

ATTACHED

and to NMCD's R-III-P  
file in this Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the  
also, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## DISTRICT I

1625 N. FRENCHE DR., HORBS, NM 88240

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

## State of New Mexico

Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30 015 35800</b>	Pool Code <b>S3815</b>	Pool Name <b>Sand Dunes; Delaware, West</b>
Property Code <b>36735</b>	Property Name <b>PURE GOLD D</b>	Well Number <b>13</b>
OGRID No. <b>233194</b>	Operator Name <b>POGO PRODUCING COMPANY</b>	Elevation <b>3367'</b>

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	23-S	31-E		660	NORTH	990	EAST	EDDY

## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
40									
Dedicated Acres <b>40</b>	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=466304.1 N X=671955.8 E</p> <p>LAT = 32.280761° N LONG = 103.776929° W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>[Signature]</i> 6/12/07 Signature Date</p> <p><i>[Printed Name]</i> Printed Name</p>
		<p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</p>
		<p>Date Surveyed: 6/12/07</p> <p>Signature &amp; Seal of Professional Surveyor: <i>[Signature]</i></p>
		<p>Certificate No: GARY EIDSON 12641 RONALD J EIDSON 3239</p>

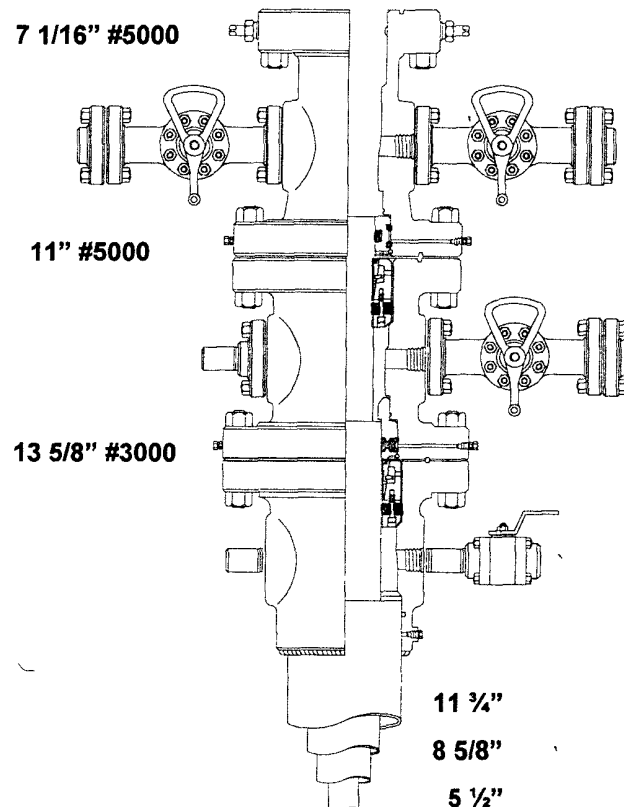




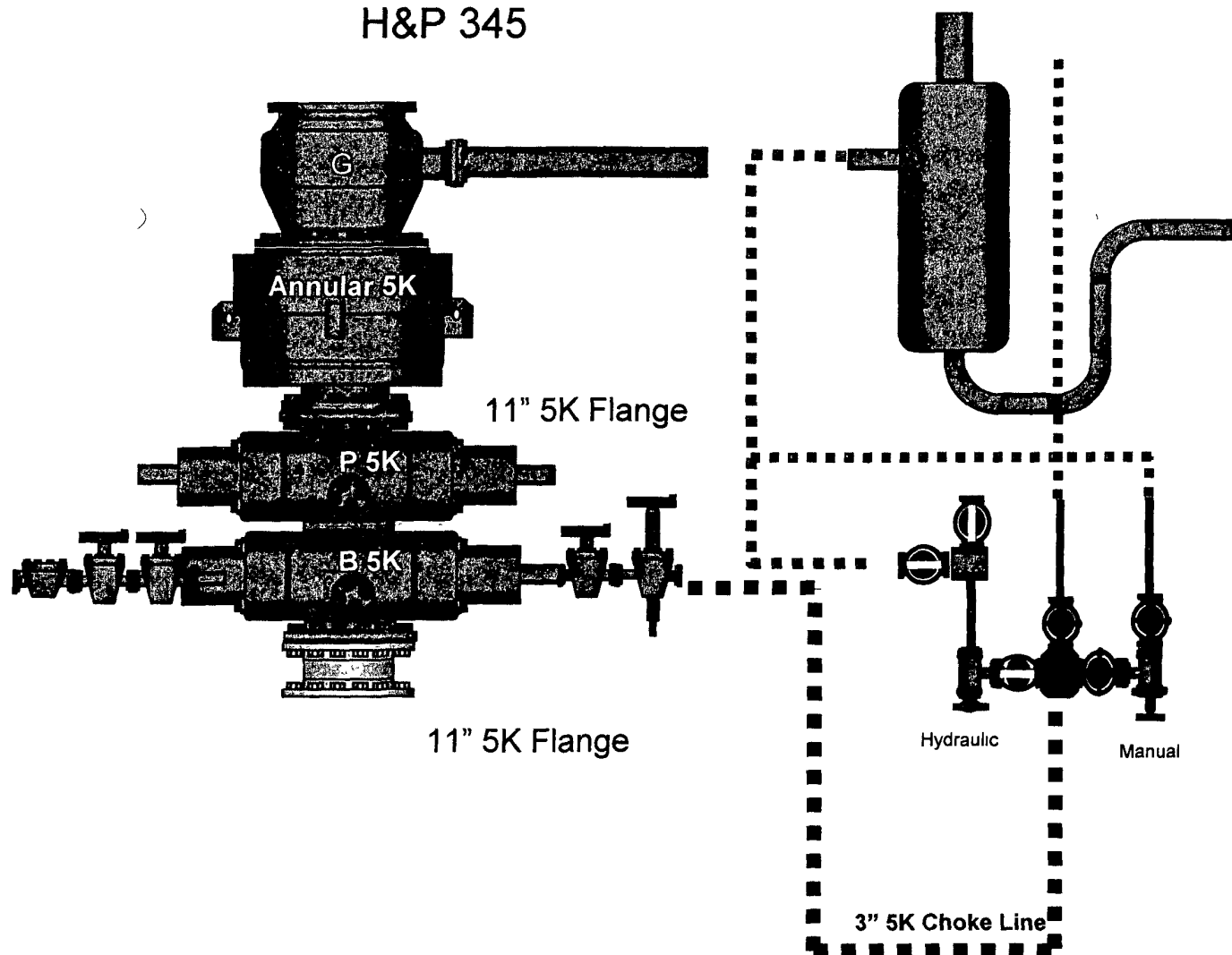
**CUSTOMER: OXY USA**

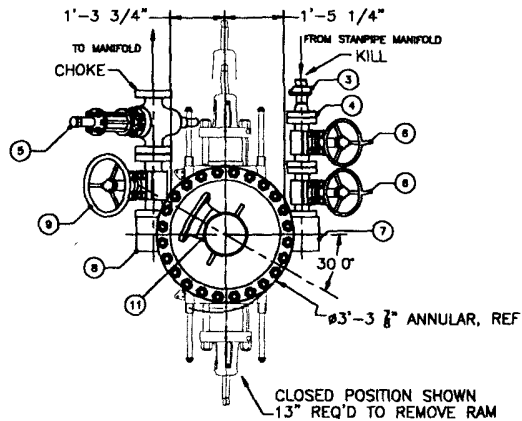
**WELL: Pure Gold Federal Unit**

**RIG: H&P #345**



Class III (11" 5K) BOP  
H&P 345

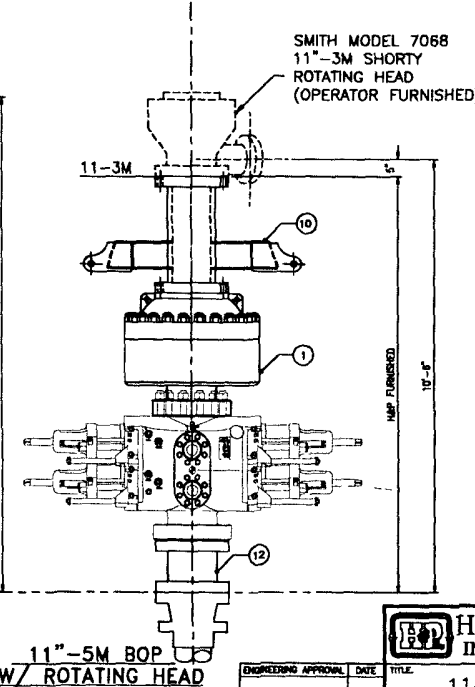
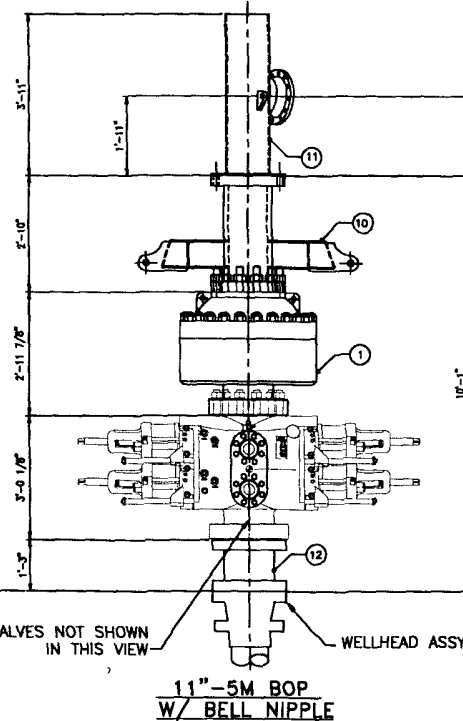
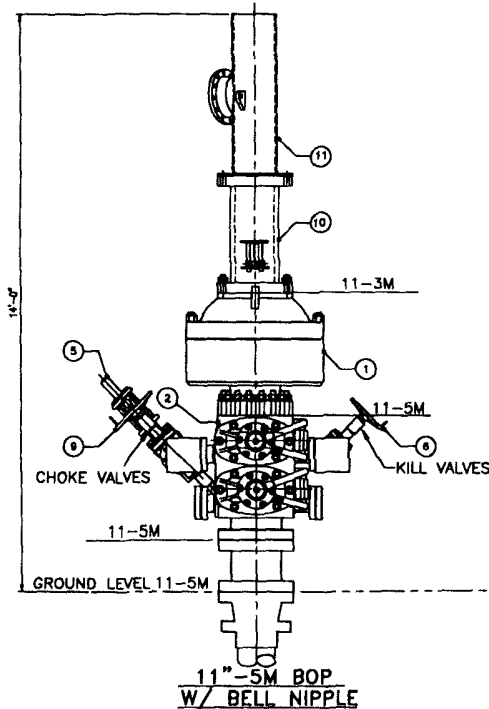




PROPER TORQUE FOR BOLTS				
COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE	(FT/LBS)
			CF=0.07	CF=0.13
SPOOLS, ANNUAL & RAMS	11"x5M	1 7/8" DIA.	1090	3330
BLOCKS	3 1/8x5M	1 1/8" DIA.	401	696
CHOKE VALVES	3 1/8x5M	1 1/8" DIA.	401	696
ROLL VALVES	2 1/16x5M	7/8" DIA.	188	319

BILL OF MATERIAL				
ITEM NO.	QTY.	DESCRIPTION	PART NUMBER	WEIGHT
		11-5M BOP ASSEMBLY		
1	1	ANNULAR, 11-5M BOLTED TYPE		8005
2	1	BOP DOUBLE RAM		7800
4		RAM ELEMENTS		444
3	1	HAMMER LINK, 2-15022 X34 (HW)		5
5	1	FLANGE, W/ 2 1/8-5M API		42
5	1	VALVE, GATE FLS-HCR 3 1/8-5M		395
8	2	WALVE, GATE 2 1/8-5M		360
7	1	80" STUDDED BLOCK, 3 1/8-5M X 2 1/8-5M		240
8	1	80" STUDDED BLOCK, 3 1/8-5M X 3 1/8-5M		250
9	2	VALVE, GATE 3 1/8-5M		780
10	1	BELL NIPPLE BOP LIFTING SECTOR	MS, F84-8-316L/2A	720
11	1	BELL NIPPLE EXTENSION	MS, F84-8-316L/2A	396
12	1	11"-5M x 11"-5M x 1'-3" LONG SPACER		800
		SPOOL - WORKING PRESSURE 5000 PSI		

HARDWARE				
ITEM NO.	QTY.	DESCRIPTION	PART NUMBER	WEIGHT
1	1	RINGS AND BOLTS		400



APPROX. TOTAL WEIGHT = 16,228 LBS.

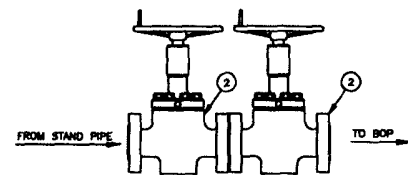
**ISSUED FOR FABRICATION**  
August-09-2006  
DRAFTSMAN  
ENGINEER

**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.

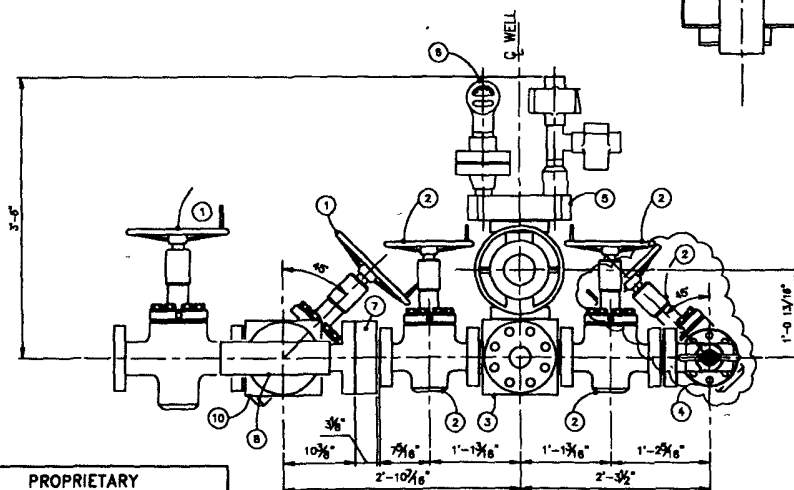
**NOTES:**  
1 ALL BOP RAMS SHOWN ARE SHAFFER MODEL LXT  
11-5M PSI WP - FLANGED BOTTOM AND STUDDED TOP

REV	DATE	DESCRIPTION	BY
1	01/06/08	ADDED 1 OF 4 WITH 100 1 OF 3	DNJ
2	07/29/08	SHEET 1 OF 3 THIS 1 OF 3	DNJ

ENGINEERING APPROVAL		DATE	TITLE
1	01/06/08	01/06/08	11-5M BOP EQUIPMENT GENERAL ARRANGEMENT
CUSTOMER: OXY-PERMAN		PROJECT: F4M	DRAWN: DJOHNSON
SCALE: NTS		SHEET: 1 OF 4	DWG. NO.: F4M-H-320

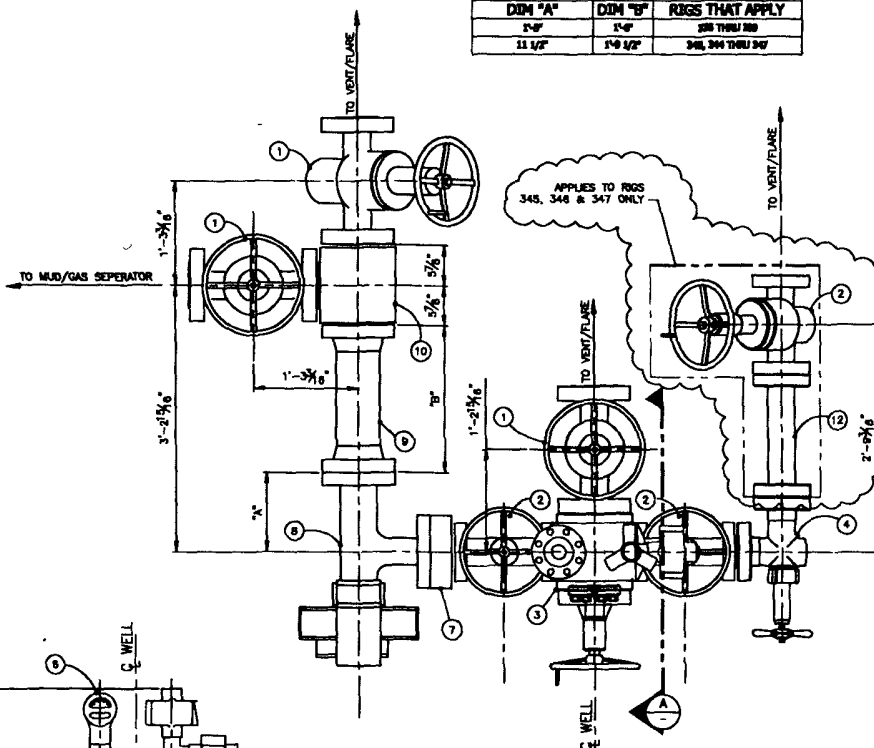


BOP SIDE OUTLET VALVES

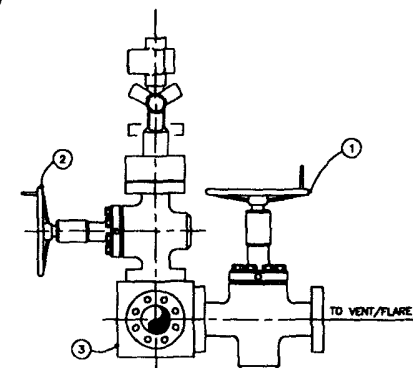


ELEVATION VIEW

DIMENSION NOTATION		
DIM "A"	DIM "B"	ROGS THAT APPLY
1'-0"	1'-0"	200 THRU 200
11 1/2"	1'-0 1/2"	201, 204 THRU 207



PLAN VIEW  
CHOKE MANIFOLD



VIEW A-A

### 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

**ISSUED FOR FABRICATION**  
October 17 2006  
DRAFTSMAN \_\_\_\_\_  
ENGINEER \_\_\_\_\_

**HELMERICH & PAYNE**  
INTERNATIONAL DRILLING CO.

CHOKE MANIFOLD  
DETAIL ARRANGEMENT

CUSTOMER: OXY SOUTH AMERICA

PROJECT	\$4M
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DATE 01/07/08	DWG. NO.
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OX-D0079

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**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,  
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RIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

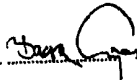
## CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.  
Equipment : 8 pcs. Choke and Kill Hose with installed couplings  
Type : 3" x 10,67 m 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 18 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

certified Rubber  
Industrial ISO  
Quality Control Dept.

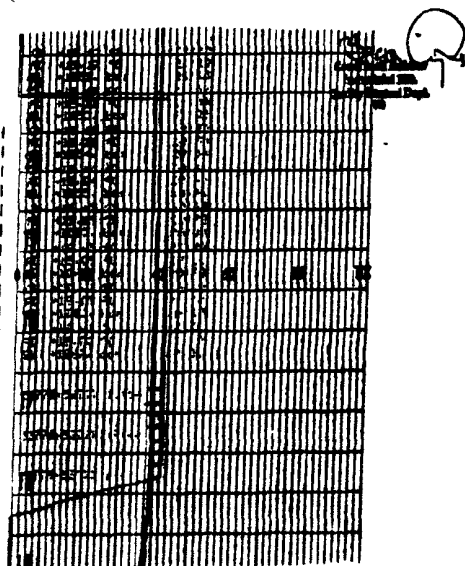
Date: 04. April. 2008

PHOENIX Beattie		Material Identification Certificate							
PA No	008330	Client	HELMERICH & PAYNE INT'L DRILLING	Client Ref	370-388-001	Page	1		
Part No	Description	Material Desc	Material Spec	Qty	WO No	Batch No	Test Cert No	Bin No	Org No
WPCB-35-05	3" 10.67 m WP 10000 psi x 10.67 m			1	2008	00277/0000		00000	
WPCB-35-05	LIFTING & SAFETY HANGER 10			1	2008	00000		00000	
WPCB-35-05	SAFETY CLAMP 10000 PSI	CHROME STEEL		1	2008	00000		00000	
WPCB-35-05	SAFETY CLAMP 10000 PSI	CHROME STEEL		1	2008	00000		00000	

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.



<b>QUALITY CONTROL INSPECTION AND TEST CERTIFICATE</b>		CERT. NO: 748	
PURCHASER: Phoenix Seattle Co.		P.O. NO: 002481	
CONTITECH ORDER NO: 412538	HOSE TYPE: 3" ID	Choke and Kill Hose	
HOSE SERIAL NO: 52777	NOMINAL / ACTUAL LENGTH: 10.87 ft		
W.P. 66,98 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Durability: 80 min.	
Pressure test with water at ambient temperature  <p style="text-align: center;">See attachment. (1 page)</p>			
↑ 10 mm = 10 Mts. → 10 mm = 25 MPa			
<b>COUPLINGS</b>			
Type	Serial NO	Quality	Heat NO
3" coupling with 4 1/16" Flange end	817 813	API 4130 API 4130	T7988A 28984
<b>INFOCHIP INSTALLED</b>		API Spec 18 C Temperature rate: "B"	
All metal parts are Stainless			
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 Rubber Inspected By: Quality Control Dept. 10	



**Delivery Note**

Customer Order Number	378-388-001	Delivery Note Number	063878	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1487 SOUTH BOWLER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - Rm 378 13688 INDUSTRIAL ROAD HOUSTON, TX 77055			

Customer Acc No	Phoenix Beattle Contract Manager	Phoenix Beattle Reference	Date
001	J.L.	06388	05/23/2008

Item No	Beattle Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP13000-35-4F1 3" 10K 10C COK HOSE x 35% OH. CH 4 1/16" API SPEC FLANGE E/ End 1: 4 1/16" 100psi API Spec 6A Type GBK Flange End 2: 4 1/16" 100psi API Spec 6A Type GBK Flange c/w 8X150 Standard ring groove at each end Suitable for HES Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 10C Part 1 specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1	1	0
2	SECKS-HYD LIFTING & SAFETY EQUIPMENT TO SUIT HP13000-35-F1 2 x 180mm ID Safety Clamps 2 x 24mm ID Lifting Collars & element C's 2 x 7% Stainless Steel wire rope 3/4" OD 4 x 7.70K Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7 2ST C/S GALVANIZED	1	1	0

**Delivery Note**

Customer Order Number	378-388-001	Delivery Note Number	063878	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1487 SOUTH BOWLER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - Rm 378 13688 INDUSTRIAL ROAD HOUSTON, TX 77055			

Customer Acc No	Phoenix Beattle Contract Manager	Phoenix Beattle Reference	Date
001	J.L.	06388	05/23/2008

Item No	Beattle Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4	SC725-130CS SAFETY CLAMP 130MM 7 2ST C/S GALVANIZED C/W BOLTS	1	1	0
5	ORCERT-HYD HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	ORCERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	CONFREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK (INCLUDING THE PURCHASE ORDER, Rm NUMBER TO ENSURE PROPER PAYMENT)	1	1	0

Phoenix Beattle Inspection Signature: 

Received in Good Condition: Signature 

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

All goods remain the property of Phoenix Beattle until paid for in full. Any damage or shortage on this delivery must be advised within 8 days. Returns may be subject to a handling charge.

75'

40'

SCOMI OILTOOLS DEWATERING SYSTEM

POLYMER TANK

ACID TANK

SCOMI OILTOOLS DE-1000

SCOMI OILTOOLS DE-1000

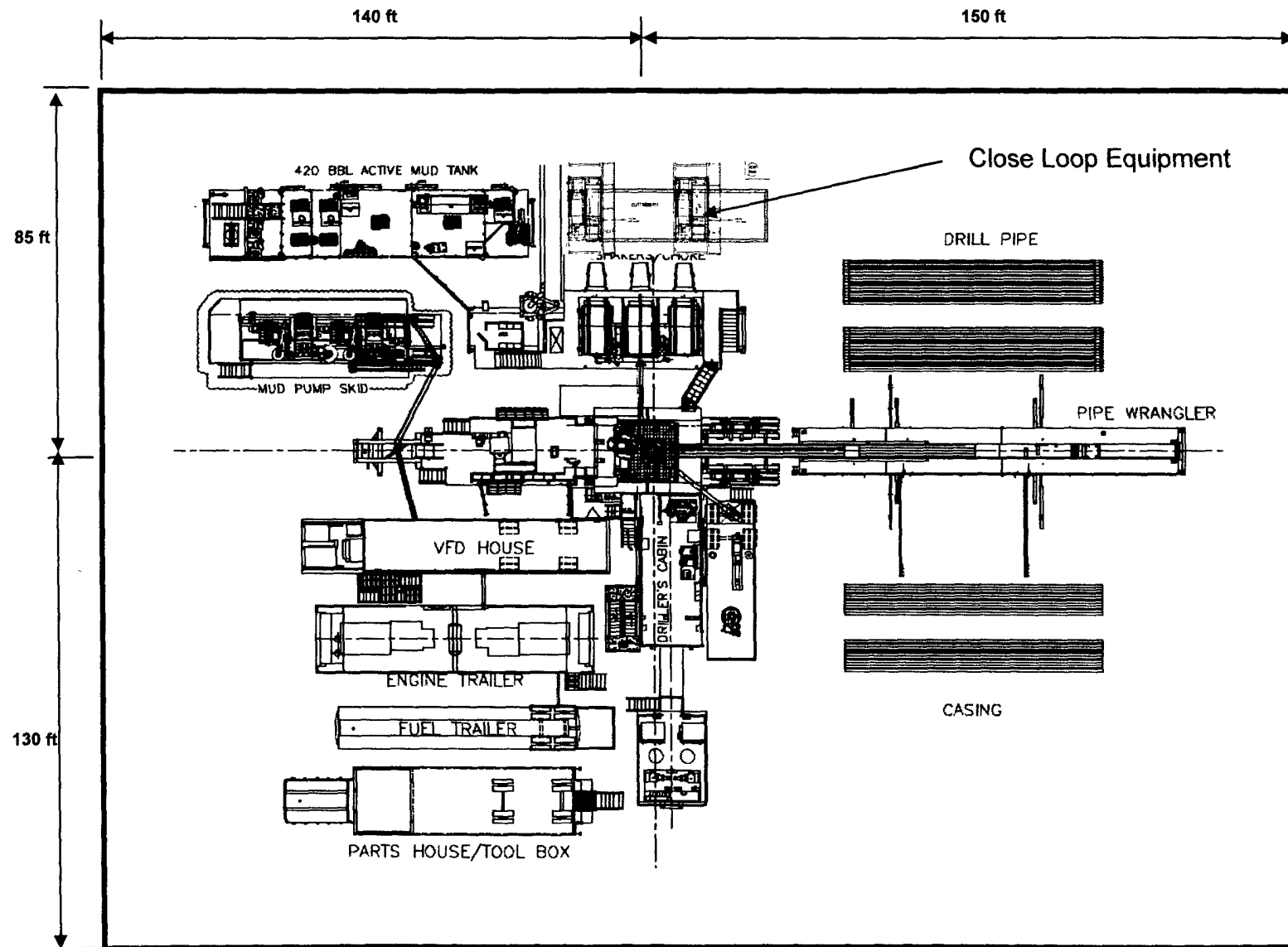
CRI ROLLOFF BOX

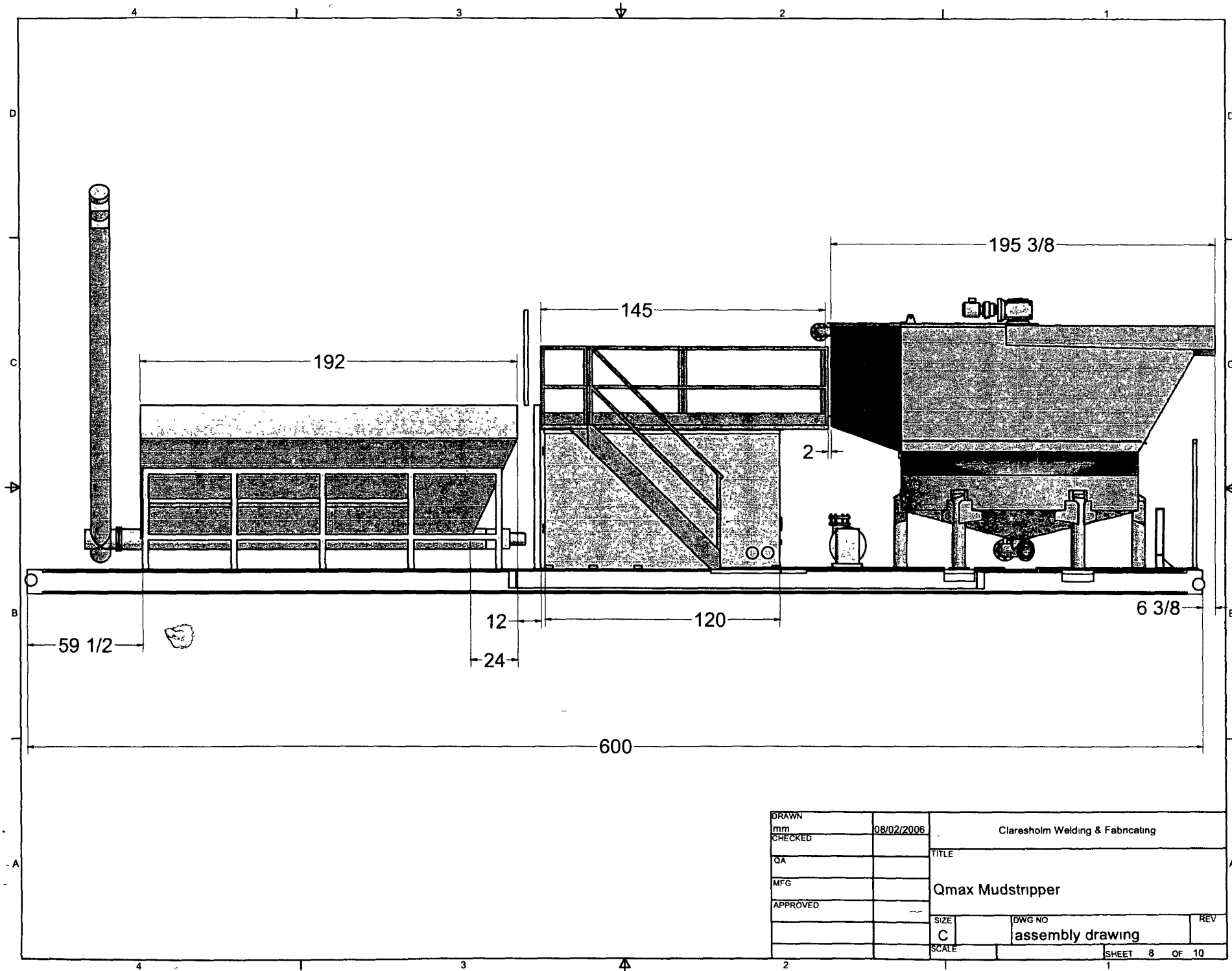
# Scomi



# OXY FLEX IV PAD (Closed Loop System)

Revised 05/14/2009





DRAWN	mm	08/02/2006	Claresholm Welding & Fabricating	
CHECKED			TITLE	
QA			Qmax Mudstripper	
MFG			assembly drawing	
APPROVED			SIZE	REV
			C	
			SCALE	
			SHEET	8 OF 10

## PECOS DISTRICT CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>OXY USA, Inc.</b>
<b>LEASE NO.:</b>	<b>NMNM-40659</b>
<b>WELL NAME &amp; NO.:</b>	<b>Pure Gold D #13</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>0660' FNL &amp; 0990' FEL</b>
<b>LOCATION:</b>	<b>Section 28, T. 23 S., R 31 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>

### I. DRILLING

#### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

1. **Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
4. **Gamma-Ray/Neutron logs shall be run from the base of the Salado formation to the surface. The logs shall be run at a speed which allows the logs to be legible and no faster than manufacturer of the logging tools recommended speed. (R-111-P area only)**

## **B. CASING**

**Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.**

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

**Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.**

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

**Possible lost circulation in the Delaware and Bone Spring formations.**

**Possible water flows in the Salado, Castile, Delaware, and Bone Spring formations.**

1. The 11-3/4 inch surface casing shall be **set at approximately 570 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt)** and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing **(which is to be set in the Lamar Limestone)** is:
  - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - a. First stage to DV tool, cement shall:
    - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.
  - b. Second stage above DV tool, cement shall:
    - ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Additional cement may be required to circulate to surface as excess for second stage calculates to 27%.**
4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

#### **C. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. **Variance approved to use flex line from BOP to choke manifold. Check condition of 3" x 35' flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends.**
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8" intermediate casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. The tests shall be done by an independent service company.
  - b. The results of the test shall be reported to the appropriate BLM office.
  - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
  - e. **Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.**

#### **D. DRILL STEM TEST**

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

**WWI 062409**