RM

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA
JUL 28 2009

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

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

5. Lease Serial No.
NM40659

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Pure Gold D Fed 10

2. Name of Operator
OXY USA Inc. 16696

9 API Well No.
30-015-35799

3a. Address
P.O. Box 50250, Midland, TX 79710-0250

3b. Phone No. *(include area code)*
432-685-5717

10. Field and Pool, or Exploratory Area
Sand Dunes Delaware, West

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
1980 FNL 2310 FEL SWNE(G) Sec 28 T23S R31E

11. County or Parish, State
Eddy NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
[ ] Subsequent Report	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Final Abandonment Notice	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other Amend Drilling Plan
	[X] Change Plans	[ ] Plug and Abandon	[ ] Temporarily Abandon	
	[ ] Convert to Injection	[ ] Plug Back	[ ] Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 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 7/7/09

APPROVED
JUL 24 2009
WESLEY W. INGRAM
PETROLEUM ENGINEER

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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.

Oxy Permian
Pure Gold D # 10

1980 FNL 2310 FEL SWNE(G) Sec 28 T23S R31E

Lat 32° 16' 37.6680"N Long 103° 46' 52.3164"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 113/4 casing @ 570', 25' into the Rustler formation, and circulating cement. The salt section will be protected by setting 8 5/8" intermediate casing @ 4250', 25' into the Delaware formation, and circulating cement to surface. Production casing will be 5½" 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 ¾"	0' - 570'	11 ¾"	42	H-40	STC
10 5/8"	0' - 4250'	8 5/8"	32	J-55	LTC
7 7/8"	0' - 8300'	5½"	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: ← See COA

Interval	Amount sx	Ft of Fill	Type	Gal/Sx	PPG	Ft3/sx
Surface (TOC: Surface)						
Lead: 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
Tail 270' – 570 (150%Excess	270	300'	Halliburton Premium Plus + 2% $CaCl_2$	6.39	14.8	1.35

Intermediate (TOC: Surface)						
Lead: 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
Tail: 3,771' - 4,250' (150% Excess)	200	479'	Halliburton Premium Plus	6.34	14.8	1.33
Two Stage DV Tool @ 4,300' and Circulate Cement to Surface						
Production (TOC: 4,300') **1st Stage**						
Lead: 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
Tail: 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
Production (TOC: Surface) **2nd Stage**						
Lead: 0' – 3,987' (35% Excess)	350	3,987'	Halliburton Interfill C + 0.5% LAP-1, 0.25 pps D-AIR 3000	16.64	11.5	2.79
Tail: 3,987'– 4,300' (150% Excess)	100	313'	Halliburton premium Plus	6.34	14.8	1.33

Cement Summary:

Casing	**Hole Size**	**Interval**	**TOC**	**Comp.Strength** (24 hrs)
11 ¾" 42# H-40, STC	14 ¾"	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 ½" 17# J-55, LTC	7 7/8"	0' – 8,300'	Surface	118 psi Lead 1528 psi Tail

Surface casing will be centralized as per onshore Order 2.III.B.1.f.

Wait on cement time will be 24 hrs, or 500 psi compressive strength whichever is greater.

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 4½" 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 113/4" 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 113/4" surface casing. Using a cup tester, all equipment will be tested to 1386 psi (high) which is 70% of internal yield pressure for the surface casing (11 ¾" H-40 42# LTC) as per Onshore Order 2 related to pressure control on Ram preventer and associated equipment when the BOP stack is not isolated form the casing, and 250 psi (low).

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.

See COA

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:

A. An upper and lower top drive valve will be in the Top Drive at all times.

B. A full opening drill pipe safety valve having the correct connections for the string in use will be on the floor at all times.

C. 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_2S Contingency Plan was included with the original permit filing.

8. Logging, Coring & Testing Program

A. No drill stem testing is planned.

B. Open Hole Logging

Total Depth to Intermediate Casing Shoe: Dual Laterlog – Microguard, DS Neutron / Spectral Density log with GR and Caliper.

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 eligible and no faster than the manufacturer of the logging recommended speed.

C. 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. BLM will be provided measured values and formations.

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 first week of August, 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.

30-015-35799

OCD-ARTESIA

AS-07-510
EA-07-1005

Form 3160-3
(November 1983)
(formerly 9-331C)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

C-55

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM-40659

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER — R-111-POTASH — SINGLE ZONE ☒ MULTIPLE ZONE ☐

8. FARM OR LEASE NAME: PURE GOLD "D"

2. NAME OF OPERATOR: POGO PRODUCING COMPANY

9. WELL NO.: 10

3. ADDRESS OF OPERATOR: P.O. BOX 10340, MIDLAND, TEXAS 79702

10. FIELD AND POOL, OR WILDCAT: UNDESIGNATED DELAWARE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1980' FNL AND 2310' FEL OF SECTION 28

At proposed prod. zone: CARLSBAD CONTROLLED WATER BASIN

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC.28, T.23 S., R.31 E.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* CARLSBAD CONTROLLED WATER BASIN
18 MILES EAST OF LOVING, NEW MEXICO

12. COUNTY OR PARISH: EDDY COUNTY

13. STATE: NEW MEXICO

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1980'	640	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
1240'	8300'	ROTARY

NM B000238
BLM Bond Statewide
CR 7/23/07

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3357.9' 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' CDA	SUFFICIENT TO CIRCULATE
11"	8-5/8"	24# & 32#	4100'	SUFFICIENT TO CIRCULATE
7-7/8"	5-1/2"	15.5# & 17#	8300'	SUFFICIENT TO CIRCULATE

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 PLAN

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

BUREAU OF LAND MANAGEMENT RECEIVED DEC 28 1992 O. C. D. ARTESIA, NM

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.

24.

SIGNED Richard L. Wright TITLE Division Operations Supr. DATE December 23, 1992

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY ReneC Berkhaudt TITLE Acting STATE DIRECTOR DATE 9-6-07

CONDITIONS OF APPROVAL, IF ANY:

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL FOR TWO YEARS
*See Instructions On Reverse Side

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

Title 18 U.S.C. Section 1001, 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.

DISTRICT I
1625 N. FRENCH DR., HOBBS, 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	Pool Code	Pool Name
30-015 35 799	53815	Sand Dunes; Delaware, West

Property Code	Property Name	Well Number
36735	PURE GOLD D	10

OGRID No.	Operator Name	Elevation
233194	POGO PRODUCING COMPANY	3360'

Surface Location

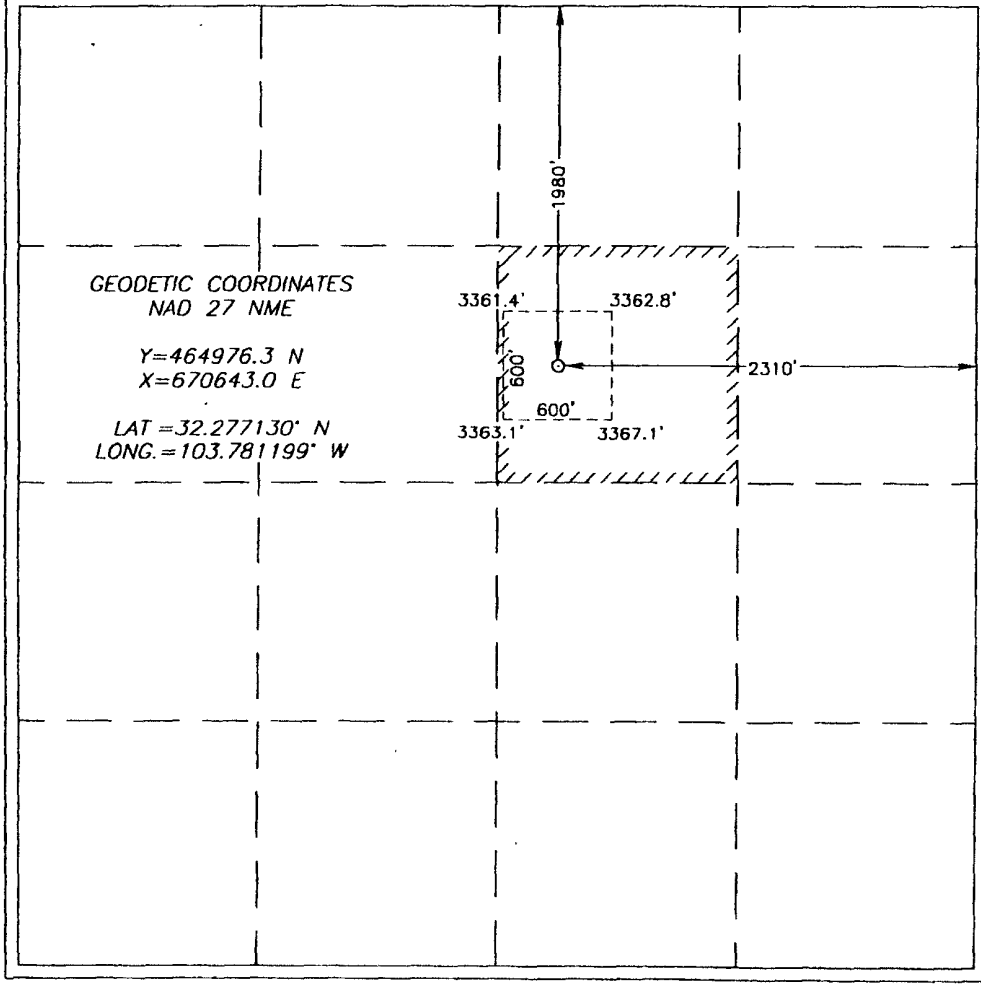
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	28	23-S	31-E		1980	NORTH	2310	EAST	EDDY

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	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



OPERATOR CERTIFICATION

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.

Signature — Date: 10/12/07

R. Scott McDaniel
Printed Name

SURVEYOR CERTIFICATION

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

RONALD J. EIDSON NEW MEXICO 3239 REGISTERED PROFESSIONAL SURVEYOR

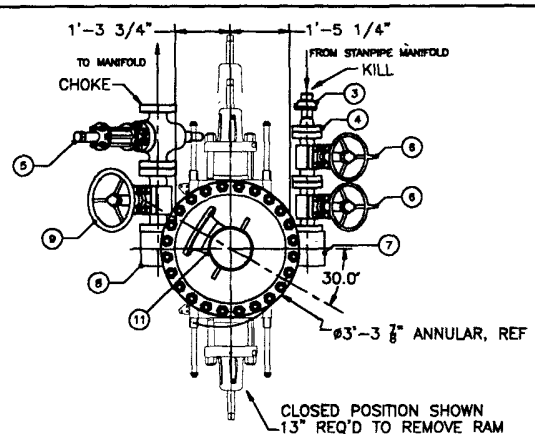
Date Surveyed: MARCH 2007 LA

Signature & Seal of Professional Surveyor

5/16/07

07.11.0588

Certificate No. GARY EIDSON 12641
RONALD J. EIDSON 3239

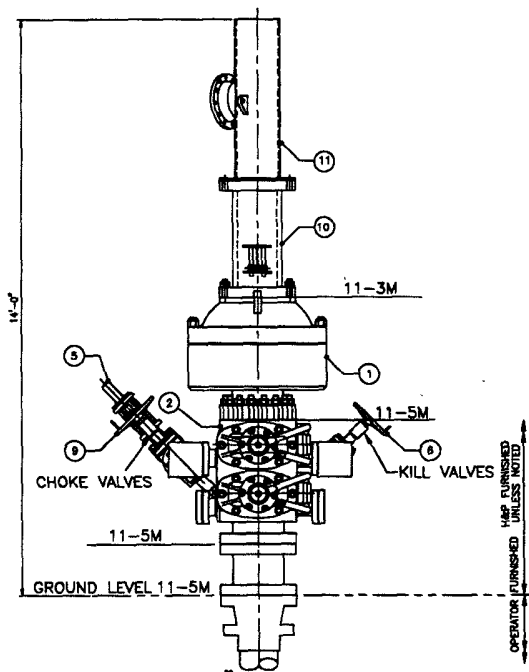


PROPER TORQUE FOR BOLTS				
COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE (FT/LBS) CF=0.07	TORQUE (FT/LBS) CF=0.13
SPOOLS, ANNULAR & RAMS	11"x5M	1 7/8" DIA.	1890	3330
BLOCKS	3 1/8x5M	1 1/8" DIA	401	686
CHOKE VALVES	3 1/8x5M	1 1/8" DIA.	401	686
KILL VALVES	2 1/16x5M	7/8" DIA.	188	319

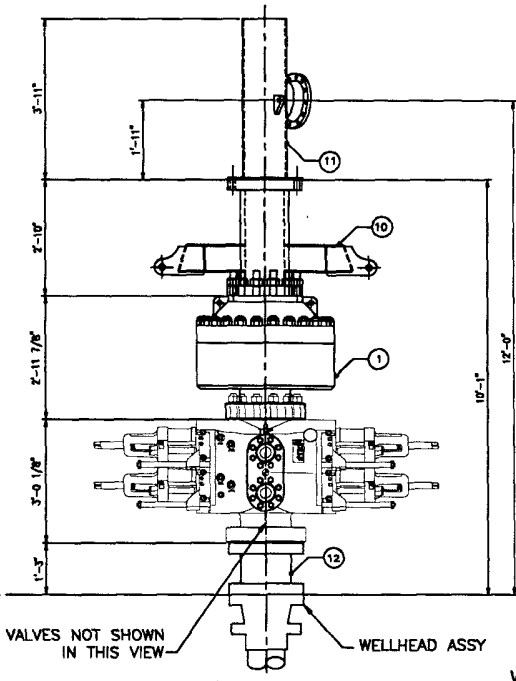
BILL OF MATERIAL				
ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
		11-5M BOP ASSEMBLY		
1	1	ANNULAR, 11x3M BOLTED TYPE		8005
2	1	BOP DOUBLE RAM		7600
	4	RAM ELEMENTS		444
3	1	HAMMER UNION, 2-1502 10H (BW)		5
4	1	FLANGE, WN 2 1/16-5M API		42
5	1	VALVE, GATE FLS-HCR 3 1/8-5M		396
6	2	VALVE, GATE 2 1/16-5M		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	MK FIG-H-318JM	780
11	1	BELL NIPPLE EXTENSION	MK FIG-H-318JM	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

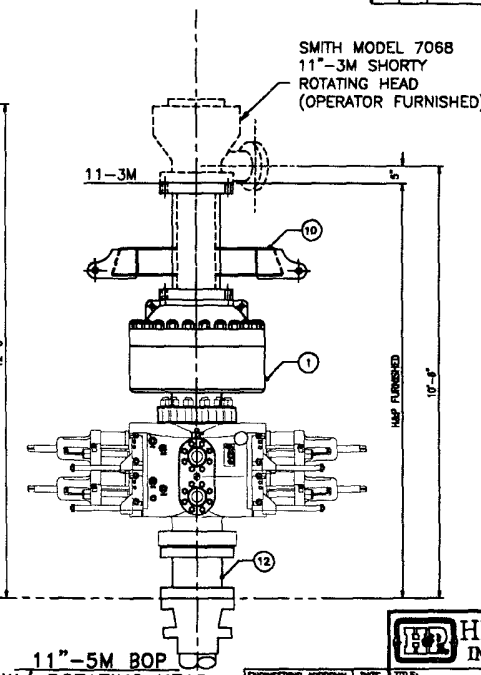
APPROX. TOTAL WEIGHT = 18,228 LBS.



11"-5M BOP
W/ BELL NIPPLE



11"-5M BOP
W/ BELL NIPPLE



11"-5M BOP
W/ ROTATING HEAD

ISSUED FOR FABRICATION
August-08-2008
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

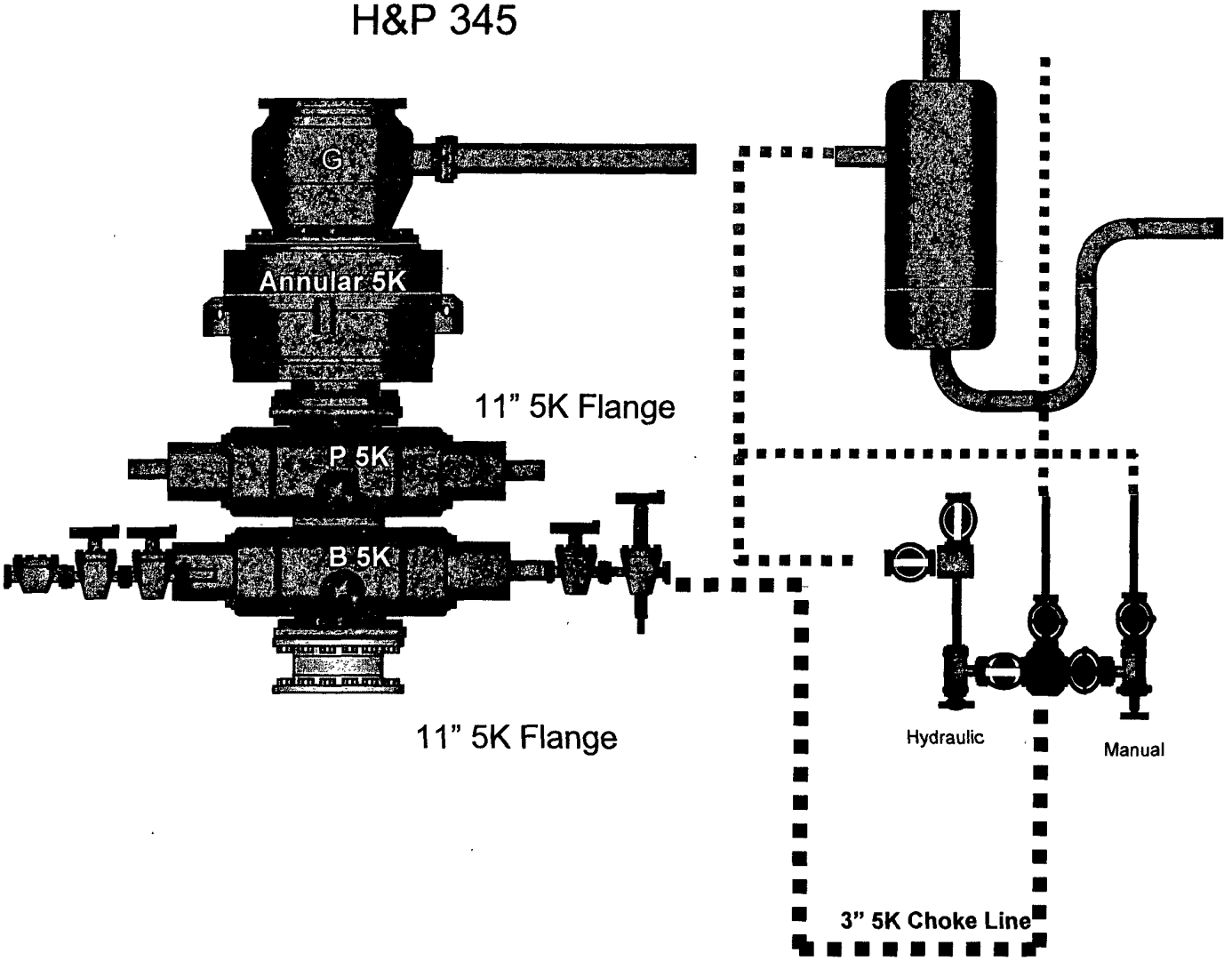
REV	DATE	DESCRIPTION	BY	ENGINEERING APPROVAL	DATE
3					
2					
1	08/08/08	ADDED 1 OF 4 SHTS WAS 1 OF 3	DRJ		
0	07/29/08	SHEET 1 OF 3 WAS 1 OF 5	DRJ		

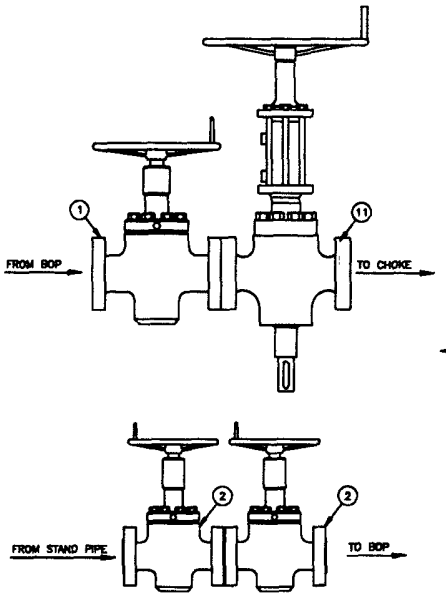
HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

TITLE: 11-5M BOP EQUIPMENT GENERAL ARRANGEMENT

CUSTOMER: OXY-PERMIAN
PROJECT: F4M
DRAWN: DJOHNSON DATE: 07/14/08
SCALE: NTS SHEET 1 OF 4
DWG. NO.: F4M-H-320
REV: B

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



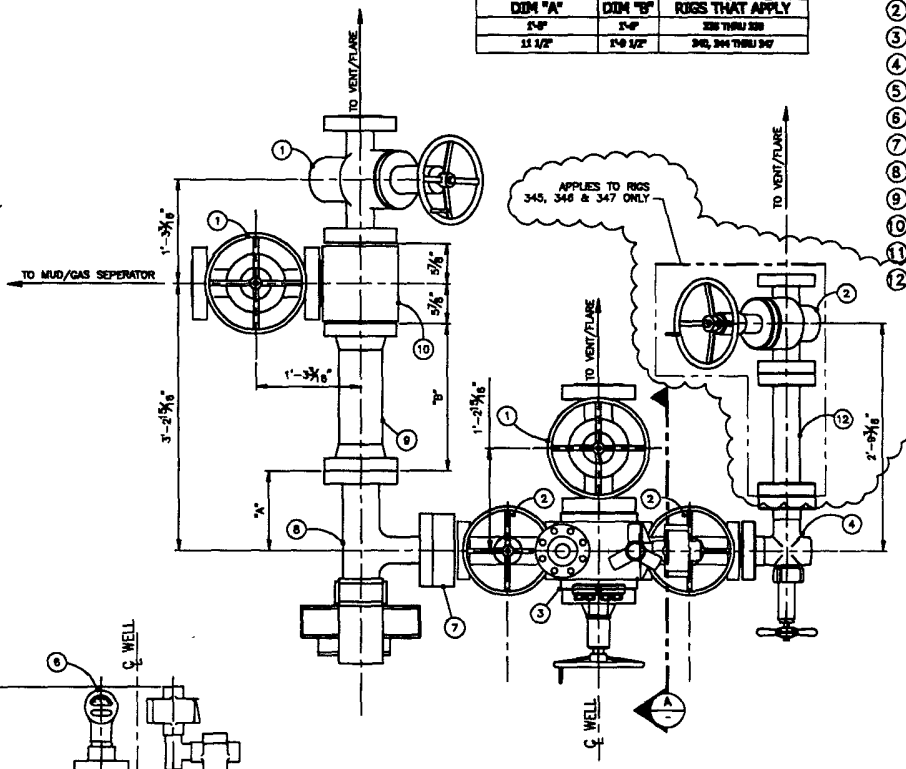


BOP SIDE OUTLET VALVES

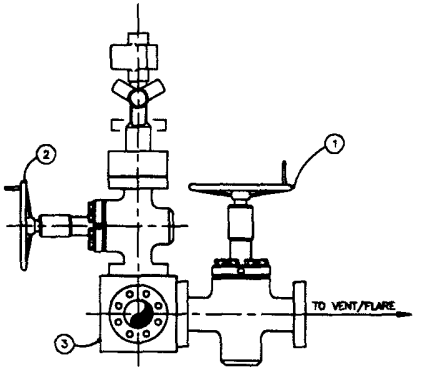
DIMENSION NOTATION		
DIM "A"	DIM "B"	RIGS THAT APPLY
1'-9"	1'-9"	336 THRU 339
11 1/2"	1'-0 1/2"	340, 344 THRU 347

LEGEND

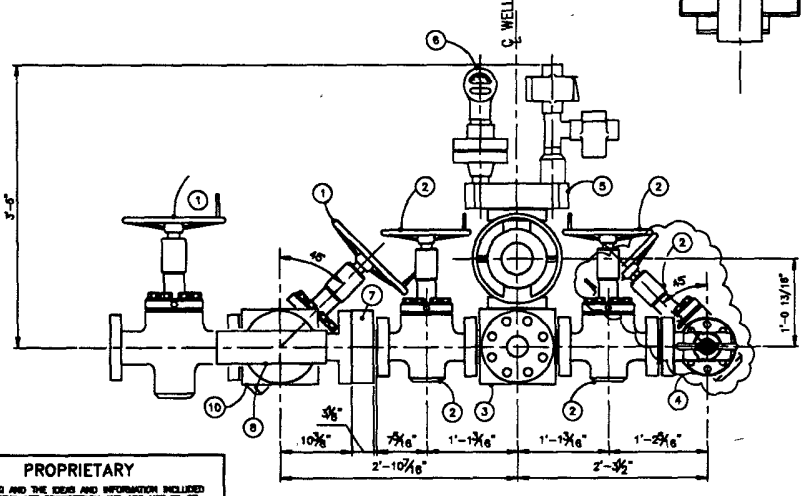
1. 3 1/8"–5M FLANGED END GATE VALVE
2. 2 1/16"–5M FLANGED END GATE VALVE
3. BLOCK WITH TRANSMITTER FLANGE AND PRESSURE GAUGE
4. 2 1/16"–5M ADJUSTABLE CHOKE
5. TRANSMITTER FLANGE
6. PRESSURE GAUGE
7. DSA 2 1/16"–5M x 3 1/16"–10M
8. 3 1/16"–10M HYDRAULIC CHOKE
9. 3 1/8"–5M x 3 1/16"–10M SPOOL
10. 3 1/8"–5M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



ELEVATION VIEW

ISSUED FOR FABRICATION
October-17-2008
DRAFTSMAN
ENGINEER

REV	DATE	DESCRIPTION	BY	ENGINEERING APPROVAL	DATE
5					
4					
3	10-17-08	ADDED QTY (1) ITEM 2 & ITEM 12	MWL		
2	09-29-08	ADD DSA, SUPPORT SIDE FOR DIFFERENT SIDE WALL CHOKE	MWL		
1	5/5/08	REVISED CONFIGURATION ADDING ITEMS 7 – 10	RDM		

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

TITLE: CHOKE MANIFOLD DETAIL ARRANGEMENT

CUSTOMER: OXY SOUTH AMERICA
PROJECT: F4M
DRAWN: JAV | DATE: 01/07/08 | DWG. NO.: OX–D0079 | REV: C
SCALE: 1 1/2"=1' | SHEET: 2 OF

Continental CONTITECH

Fluid Technology

Quality Document

CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.
Equipment : 6 pcs. Choke and Kill Hose with installed couplings
Type : 3" x 10,67 m WP: 10000 psi
Supplier File Number : 412636
Date of Shipment : April. 2008
Customer : Phoenix Beattie Co.
Customer P.o. : 002481
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 : .....

...ntiTech Rubber Industrial Kft. Quality Control Dept.

Date: 04. April. 2008

Position: Q.C. Manager

PHOENIX Beattie — **Material Identification Certificate**

PA No: 006930 | 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	Dwg No	Issue No
[illegible]	[illegible]			1	[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]			1	[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]	[illegible]		1	[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]	[illegible]		1	[illegible]	[illegible]		[illegible]		

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.

Continental
CONTITECH

Fluid Technology
Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE			CERT №: 746
PURCHASER: Phoenix Seattle Co.			P.O. №: 002491
CONTITECH ORDER №: 412638	HOSE TYPE: 3" ID	Choke and Kill Hose	
HOSE SERIAL №: 52777	NOMINAL / ACTUAL LENGTH:	10,67 m	
W.P. 68,95 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Duration: 60 – min.	

Pressure test with water at ambient temperature

See attachment. (1 page)

↑ 10 mm = 10 Min.
→ 10 mm = 25 MPa

COUPLINGS			
Type	Serial №	Quality	Heat №
3" coupling with 4 1/16" Flange end	917 919	AISI 4130	T7998A
		AISI 4130	26884

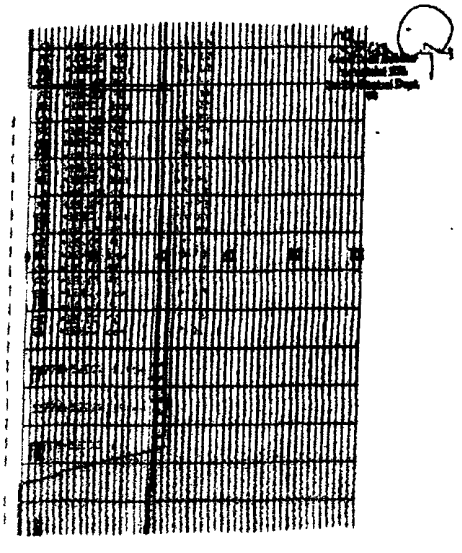
INFOCHIP INSTALLED

API Spec 16 C
Temperature rate: "B"

All metal parts are flawless

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		



Form No 100/12

PHOENIX Beattie

Phoenix Beattie Corp

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1

Customer / Invoice Address	Delivery / Address
HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119	HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP10CK3A-35-4F1 3" 10K 10C CAK HOSE x 35ft OAL CW 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 BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1	1	0
2	SECK3-HPF0 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 264mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Form No 100/12

PHOENIX Beattie

Phoenix Beattie Corp

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	2

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Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	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	00CERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	00CERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	00FREIGHT 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 : ____________

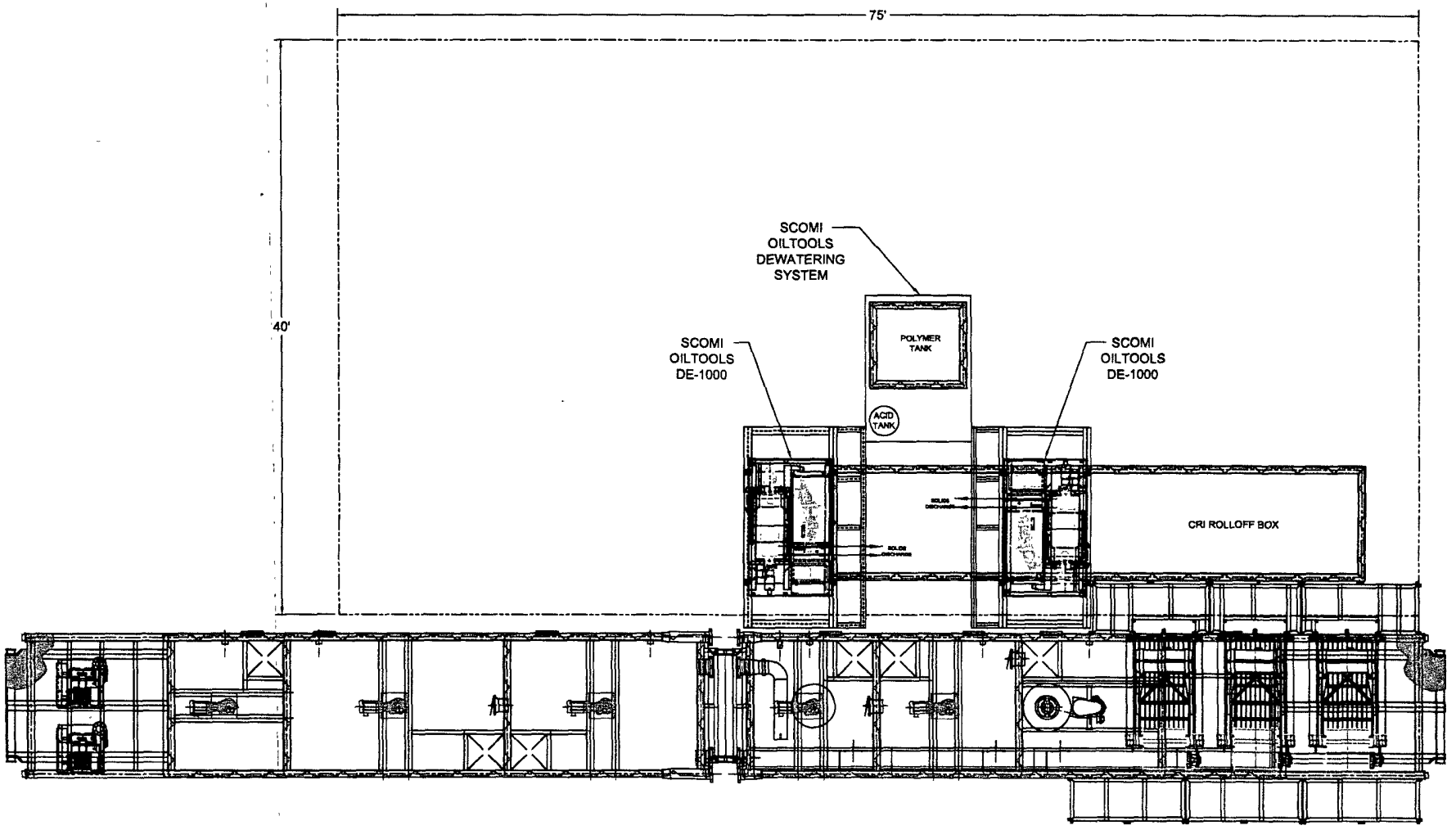
Received in Good Condition : Signature ____________

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 notified within 5 days. Returns may be subject to a handling charge.

BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT



NO.	REVISIONS	BY	CHK'D	APP'D	DATE

1. ALL STRUCTURAL MATERIAL SHALL BE ASTM – A36.
2. ALL PIPE SCH. 40 MATERIAL SA 106 Gr. B
3. ALL FLANGES SHALL BE SORF, 150# & MATERIAL SA 105.
4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA 234 Gr. WPB.
5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API–650.

TITLE :

CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&P - FLEX RIGS

DRAWN BY	DATE	CHECKED BY	DATE
PDL	10/30/08		
APPROVED	DATE	SCALE	ACAD DWG
		NTS	D

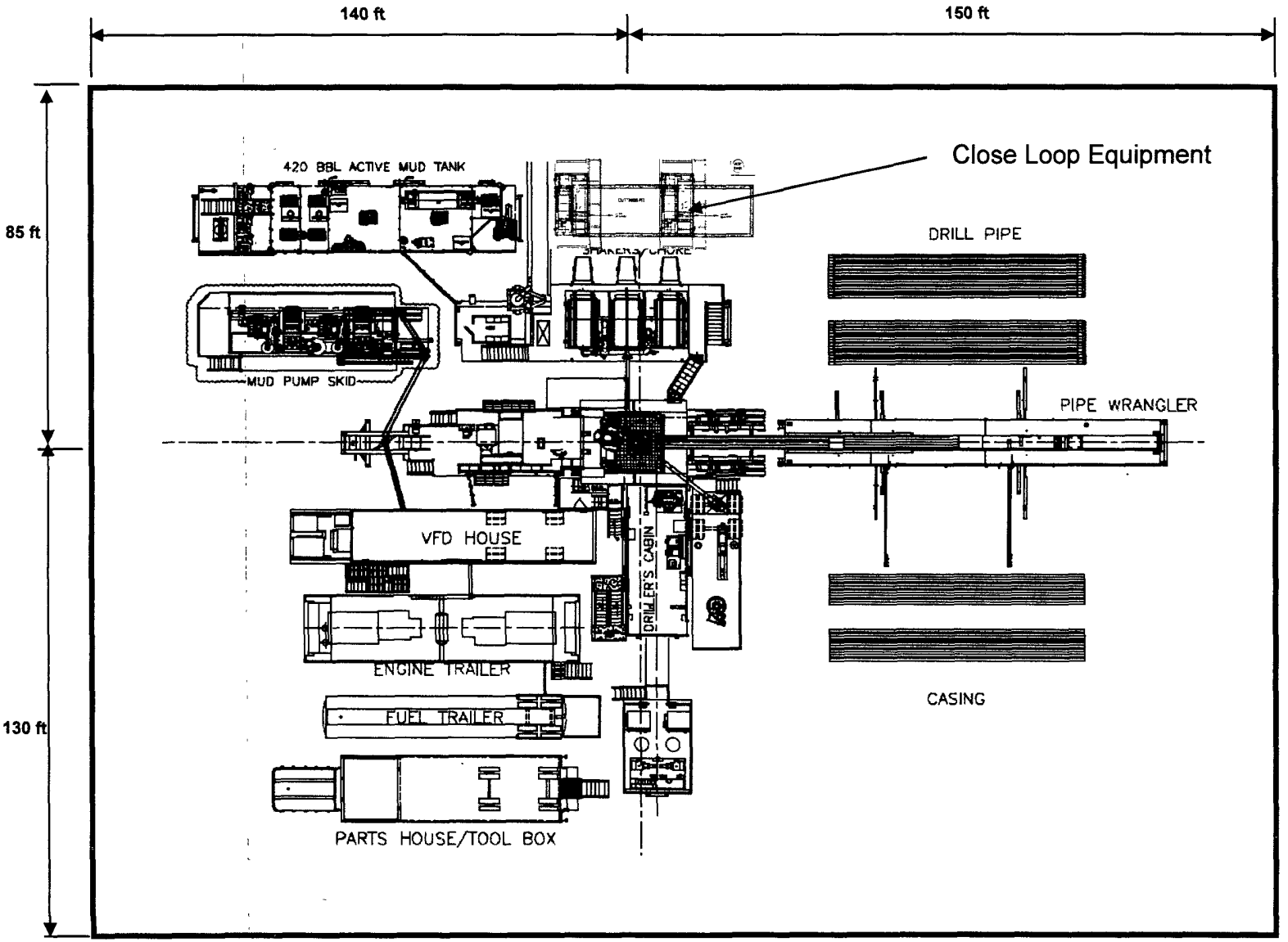
Scomi

601 N. Sam Houston Parkway East, Suite 300,
Houston, Texas 77060
PHONE: (281)-999-9015, FAX: (281)-999-4999

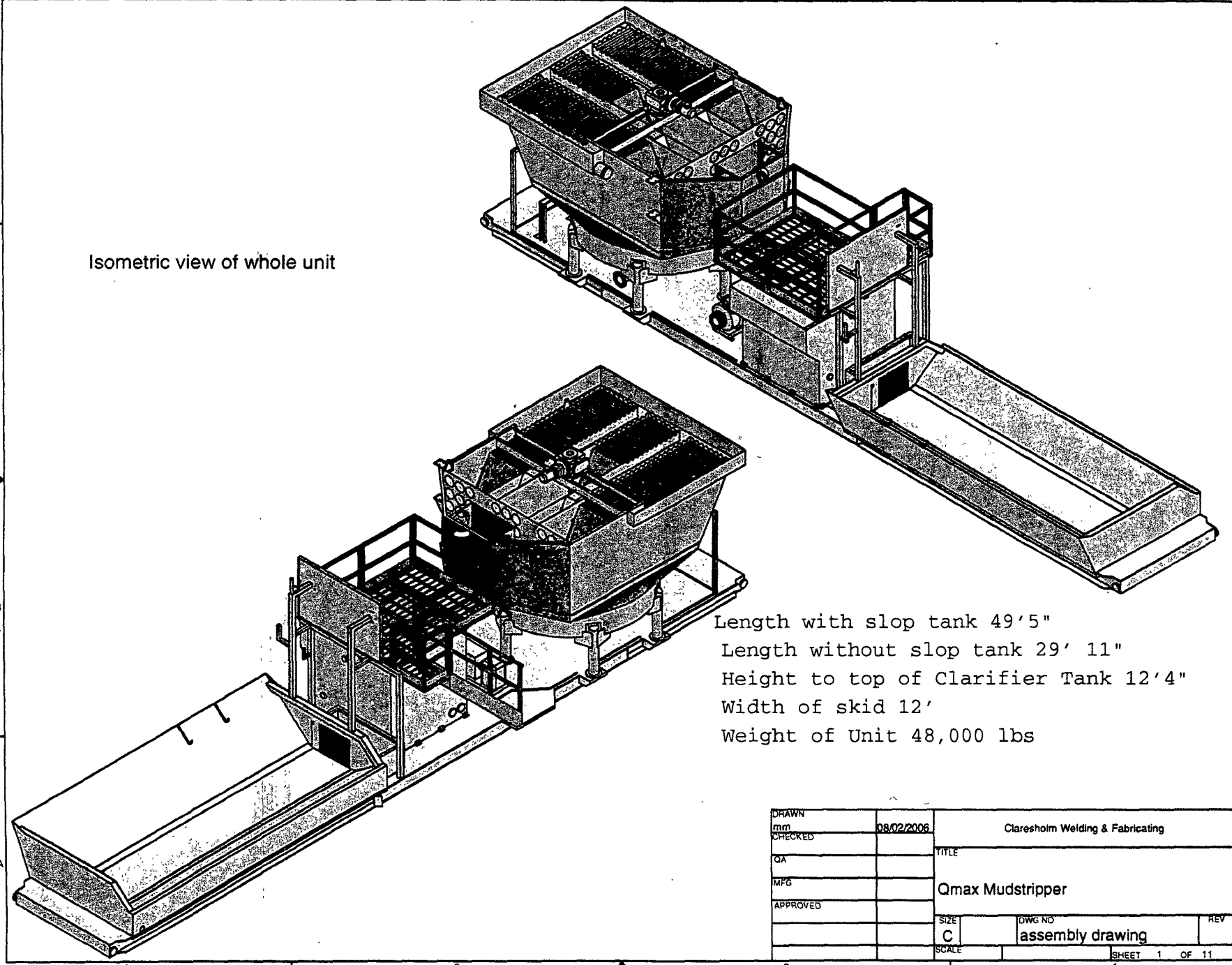
JOB NO.	DRAWING NO.	REV.
	521S-014	

OXY FLEX IV PAD (Closed Loop System)

Revised 05/14/2009

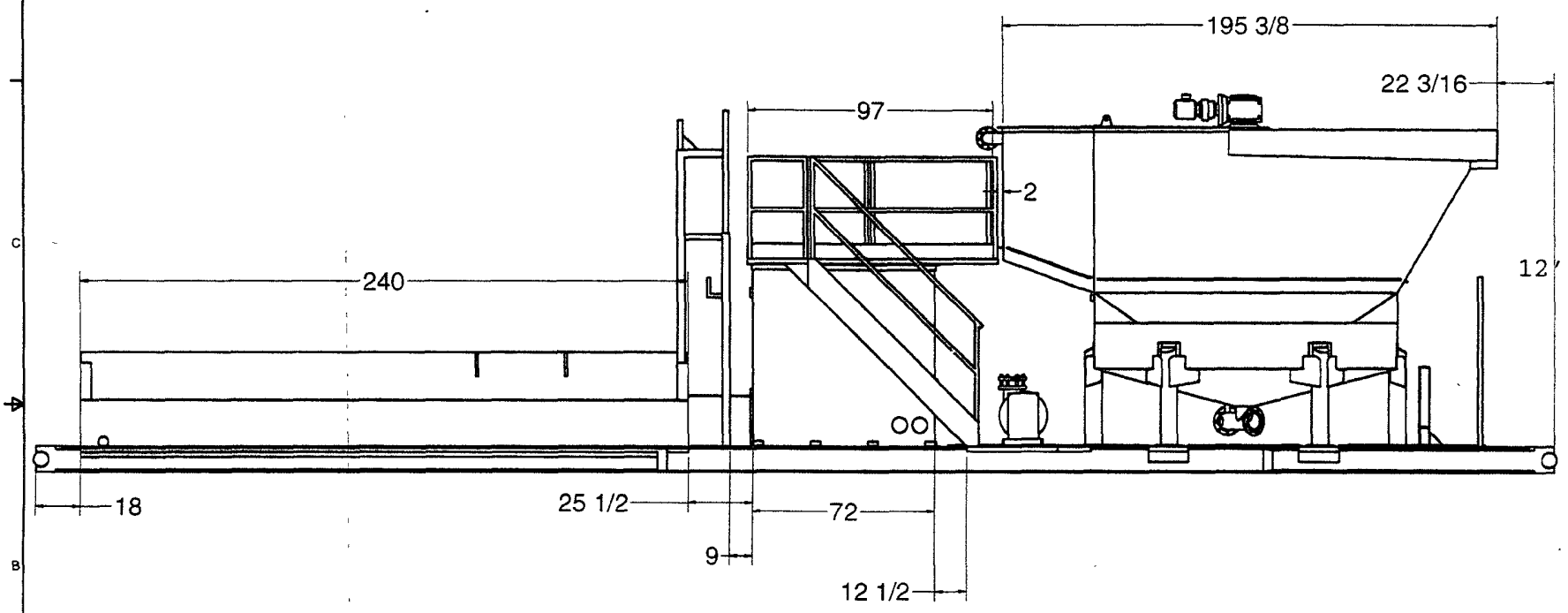


Isometric view of whole unit



Length with slop tank 49'5"
Length without slop tank 29' 11"
Height to top of Clarifier Tank 12'4"
Width of skid 12'
Weight of Unit 48,000 lbs

DRAWN mm	08/02/2006	Claresholm Welding & Fabricating	
CHECKED		TITLE	
QA		Qmax Mudstripper	
MFG			
APPROVED		SIZE C	DWG NO assembly drawing
		SCALE	SHEET 1 OF 11



48,000 lbs

DRAWN mm	08/02/2006	Claresholm Welding & Fabricating	
CHECKED		TITLE	
QA		Qmax Mudstripper	
MFG			
APPROVED		SIZE C	DWG NO assembly drawing
		SCALE	SHEET 11 OF 11

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**OXY USA, Inc.**
LEASE NO.:	**NMNM-40659**
WELL NAME & NO.:	**Pure Gold D Fed #10**
SURFACE HOLE FOOTAGE:	**1980' FNL & 2310' FEL**
LOCATION:	**Section 28, T. 23 S., R 31 E., NMPM**
COUNTY:	**Eddy County, New Mexico**

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, a minimum of 100' and not more than 600' below the salt)** 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.

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. **Pressure test to 1386 psi (70%) by third party is approved.**

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. **Operator to submit copies of test done for each casing string with the subsequent sundry detailing the casing/cementing details.**

    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.

D. DRILL STEM TEST

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

WWI 072409