Split Estate

12-795

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Form 3160-3
(March 2012)

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

HIGH CAVEKARST

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☑ DRILL ☐ REENTER	5 Lease Serial No. NMNM 99016 — TGS 10/1/2012
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone	6 If Indian, Allotee or Tribe Name
2 Name of Operator OXY USA INC <16696>	7 If Unit or CA Agreement, Name and No
3a Address P.O. BOX 4294 HOUSTON, TX 77210 — 3b Phone No. (include area code) 713-513-6640	8. Lease Name and Well No OSAGE "18" FEE C COM #1H <39485>
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 480' FSL & 840' FWL At proposed prod zone 330' FNL & 940' FWL	9 API Well No. 30-015-40761 — 10 Field and Pool, or Exploratory North Seven Rivers; Glorieta-Yeso <97565> — 11 Sec, T R M or Blk and Survey or Area M, SEC 18, T20S, R25E
14 Distance in miles and direction from nearest town or post office* 20 miles Northwes of Carlsbad, NM	12. County or Parish EDDY — 13 State NM
15 Distance from proposed* 480' location to nearest property or lease line, ft (Also to nearest drig unit line, if any) — 16 No of acres in lease 198.8 — 17 Spacing Unit dedicated to this well 160	
18 Distance from proposed location* 2800' to nearest well, drilling, completed, applied for, on this lease, ft — 19. Proposed Depth 6831' MD / 2600' TVD — 20 BLM/BIA Bond No on file ESB000226	
21 Elevations (Show whether DF, KDB, RT, GL, etc) 3576.4' — 22. Approximate date work will start* 11/15/2012 — 23 Estimated duration 10 DAYS	

24. Attachments

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

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

25 Signature Jennifer Duarte	Name (Printed/Typed) JENNIFER DUARTE (jennifer_duarte@oxy.com)	Date 05/31/2012
Title REGULATORY ANALYST		
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed) /s/ Don Peterson	Date SEP 26 2012
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

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

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

(Continued on page 2)

*(Instructions on page 2)

Roswell Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-40761	97565	North Seven Rivers, Glorieta-Yeso

Property Code	Property Name	Well Number
39485	OSAGE "18" FEE C COM	1H

OGRID No.	Operator Name	Elevation
16696	OXY USA INC.	3576.4

Surface Location

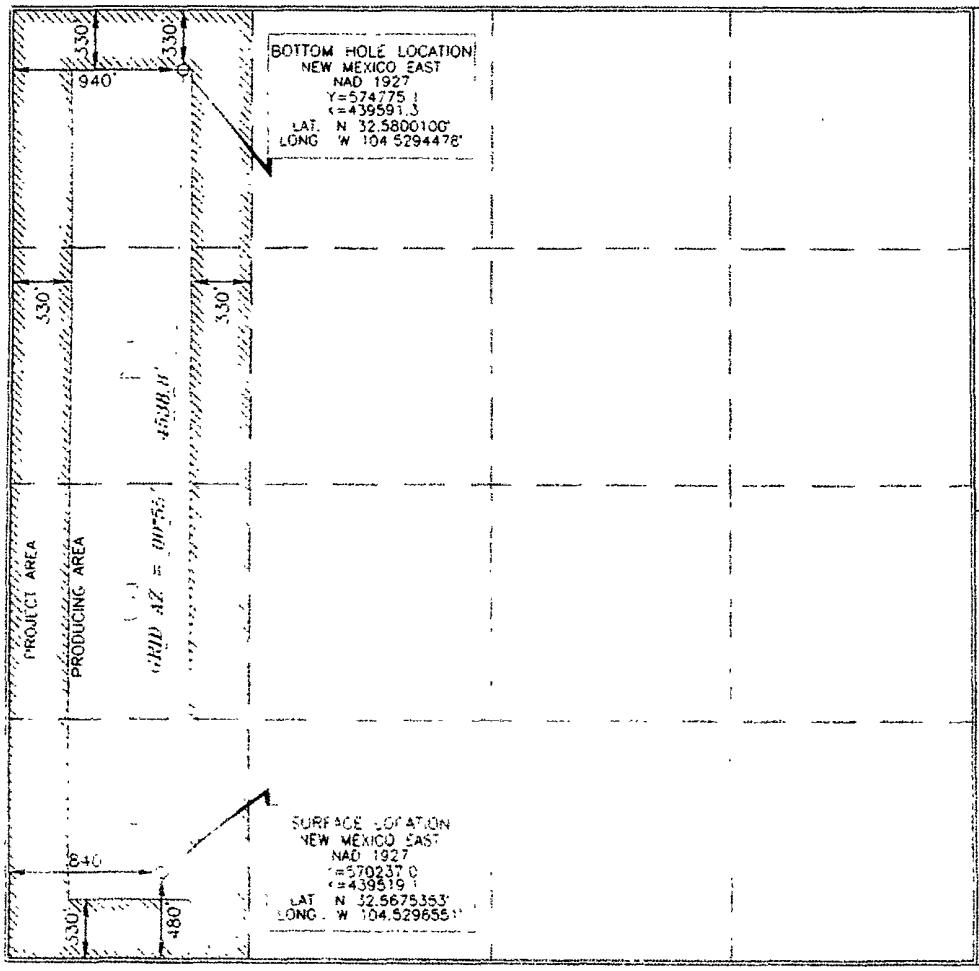
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	18	20 SOUTH	25 EAST, N.M.P.M		480'	SOUTH	840'	WEST	EDDY

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
1	18	20 SOUTH	25 EAST, N.M.P.M		330	NORTH	940'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
163.94			

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. 158.4 per operator email 8/30/12 WWI



OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 7/3/12

Jennifer Duarte
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.

SEPTEMBER 21, 2011
Date of Survey

Signature & Seal of Professional Surveyor

NEW MEXICO — GARY L. JONES — 15079 — PROFESSIONAL LAND SURVEYOR

Certificate Number 15079

WO# 110921WL-2 (Rev A) (KA)

OXY USA Inc.
Box 4294, Houston, TX 77210-4294

Taylor Cann, RPL
Land Negotiator

Phone (713) 366-5119
Cell (832) 291-9168
Fax (713) 985-1859
Taylor_Cann@oxy.com

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220

Attention: Linda Denniston

RE: Osage 18 Fee C Com 1H

Eddy County, New Mexico

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

OPERATOR NAME:	OXY USA Inc.
ADDRESS:	P.O. Box 4294 Houston, Texas 77210-4294

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

LEASE NO.:	**NMNM 99016**
LEGAL DESCRIPTION:	
Surface Location:	480' FSL & 840' FWL
Bottom Hole Location:	330' FNL & 940' FWL Section 18-T20S-R25E Eddy County, New Mexico
FORMATIONS:	None
BOND COVERAGE:	Nationwide
BLM BOND FILE NO.:	ES 0136
AUTHORIZED SIGNATURE:	OXY USA Inc. Taylor Cann
TITLE:	Land Negotiator
DATE:	February 7, 2012

cc: David Stewart

OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 30th day of May, 2012.

Name: David Schellstede

Position: Reservoir Management Team Leader

Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046

Telephone: 713-366-5013

E-mail: (optional): david_schellstede@oxy.com

Company: OXY USA Inc.

Field Representative (if not above signatory): Dusty Weaver

Address (If different from above): P.O. Box 50250 Midland, TX 79710

Telephone (if different from above): 432-685-5723

E-mail (if different from above): calvin_weaver@oxy.com

OXY USA Inc

Osage 18 Fee C Com # 1H
APD Data

OPERATOR NAME / NUMBER: OXY USA Inc 16696

LEASE NAME / NUMBER: **Osage 18 Fee C Com # 1H** **Federal Lease No:**

STATE: **NM** **COUNTY:** **Eddy**

SURFACE LOCATION: **480' FSL & 840' FWL, Sec 18, T20S, R25E**

BOTTOM HOLE LOCATION: **330' FNL & 940' FWL, Sec. 18, T20S, R25E**

C-102 PLAT APPROX GR ELEV: 3576.4'

EST KB ELEV: 3582.9' (16.5' KB)

1. **GEOLOGIC NAME OF SURFACE FORMATION**
   a. Permian

2. **ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS**

Formation	TVD	(SS) ft	Margin of Error	Expected Fluids
T. Grayburg	0	3560	50	Form Water
T. San Andres	265	3295	50	Form Water
T. Glorietta	2270	1292	50	Oil
T. Yeso Target Depth	2600	962	50	Oil
T. BSPG Sands (Base Yeso)	3250	313	50	Oil

A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

B. There is no indication of the presence of fresh water.

LATERAL GREATEST PROJECTED TD 6831' MD/ 2600' TVD **OBJECTIVE**: Yeso

3. CASING PROGRAM

Surface Casing: 9.625" casing set at ± ~~400~~ 1660' MD/ ~~400~~ 1660' TVD in a 12.25" hole filled with 8.40 ppg mud

See COA

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-~~400'~~ 1660'	~~400'~~ 1660'	36	J-55	ST&C	2020	3520	394	8 921	8.765	14.99	3.09	27 36

Production Casing: 5.5" casing set at ± 6831'MD / 2600'TVD in a 8.75" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 6831'	6831'	17	J-55	LT-C	4910	5320	247	4.89	4.77	3 48	4.81	2.23

Collapse and burst loads calculated using Stress Check with actual anticipated loads.
All tubulars are new.

4. CEMENT PROGRAM:

Surface Interval

See COA

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Surface (TOC: 0' – ~~400'~~)							
Tail: 0' – ~~400'~~ (100% Excess)	200	400	Premium Plus cement with 2% Calcium Chloride	6.39	14.80	1 35	1408 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Production (TOC: 0-6831')							
Lead: 0' – 1500' (100 % Excess)	200	1500'	Interfill C with 0.5% LAP-1(Fluid Loss Control) and 0.25% D-AIR 5000 (Defoamer)	14.31	11.90	2.47	262 psi
Tail: 1500' – 6831' (100% Excess)	1490	5317'	50/50 Poz Premium Plus with 0.4% CFR-3 (Dispersant), 0.4% LAP-1 (LFLC), 0.25 lb/sk D-AIR 5000, 0.125 lbm/sk Poly-E-Flake	5.67	14.2	1.26	1317 psi

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 400' None.

Pilot and Production: 0 - 6831' . The minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi . Operator will be using a 11" 5M two ram stack w/ 3M annular preventer, & 5M Choke Manifold.

a. The 11" 5000 psi blowout prevention equipment will be installed and operational after setting the 9 5/8" surface casing and the 9.625" SOW x 11" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.

b. The BOP and ancillary BOPE will be tested by a third party upon installation of the 9 5/8 ", J-55, 36ppf surface casing. All equipment will be tested to 250/3000 psi for 10 minutes and charted, except the annular, which will be tested to 70% of working pressure. This is to be in compliance with the Onshore Order # 2 which states the BOPE shall be tested to full working pressure when isolated from casing (except the annular.)

c. 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 3 " choke line having a 5000 psi WP rating. Oxy requests that the system be tested at 5,000 psi WP.

d. Oxy requests a variance if H&P 344 is used to drill this well to use a co-flex line between the BOP and choke manifold. See attached schematic.
Manufacturer: ContiTech Beattie Co.
Serial Number: 60220
Length: 25' Size: 3" Ends: flanges
WP rating: 5000 psi Anchors required by manufacturer: No

e. See attached BOP & Choke manifold diagrams.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – ~~400'~~ 660	8.4 – 8.8	32 – 38	NC	Fresh Water /Spud Mud
~~400'~~ – 6831'	9.0 – 9.2	28 – 29	NC	Salt Gel

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

8. 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 unobstructed and readily accessible 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. **If Hydrogen Sulfide is encountered , measured amounts and formations will be reported to the BLM**

9. POTENTIAL HAZARDS:

A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
B. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is 0.459 psi/ft. Maximum anticipated bottom hole pressure is 1195 psi.
C. 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 35 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.

See COA

10. WIRELINE LOGGING

Run Gamma/Neutron/Density/Resistivity from TD to Surface casing, with Gamma/Neutron to surface.

COMPANY PERSONNEL:

Name	Title	Office Phone	Mobile Phone
Carlos Mercado	Drilling Engineer	(713)366-5418	(713) 455-3481
Victor Guerra	Drilling Engineer Supervisor	(713)215-7256	(832) 659-3911
Sergio Abauat	Drilling Superintendent	(713)366-5689	(832) 531-5636
Douglas Chester	Drilling Manager	(713)366-5194	(713) 918-9124

Scientific Drilling

OXY

Eddy County, New Mexico: Osage
Osage
Osage 18 Fee C Com 1H

Original Wellbore

Plan: Design #1

Standard Planning Report

08 January, 2012

Scientific Drilling

Project: **Eddy County, New Mexico: Osage**
Site: **Osage**
Well: **Osage 18 Fee C Com 1H**
Wellbore: **Original Wellbore**
Design: **Design #1**

OXY

PROJECT DETAILS: Eddy County, New Mexico Osage

Geodetic System	US State Plane 1927 (Exact solution)
Datum	NAD 1927 (NADCON CONUS)
Ellipsoid	Clarke 1866
Zone	New Mexico East 3001
System Datum	Mean Sea Level

SITE DETAILS: Osage

Northing	570099 80
Easting	442226.80
Elevation	3576 40
KB	@ 3592 90usft (H&P 345)

CASING DETAILS

TVD	MD	Size
400 00	400 00	9-5/8
2600 00	6831 18	5-1/2

SECTION DETAILS

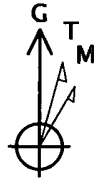
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Target
0 00	0 00	0 00	0 00	0 00	0 00	0.00	0.00	
1883 80	0 00	0 00	1883 80	0 00	0.00	0 00	0 00	
3008.80	90 00	0 91	2600 00	716 11	11 36	8 00	716 20	
6831 18	90.00	0 91	2600 00	4538 00	72 00	0 00	4538 57	BHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
358 40	358 40	T Grayburg
658 40	658 40	T San Andres
2198 40	2209 51	T Glorieta
2338 40	2376 31	T Yeso
2600 00	3008 80	Lateral TGT Window +/- 20'
2600 00	3008 80	T Yeso Target Depth

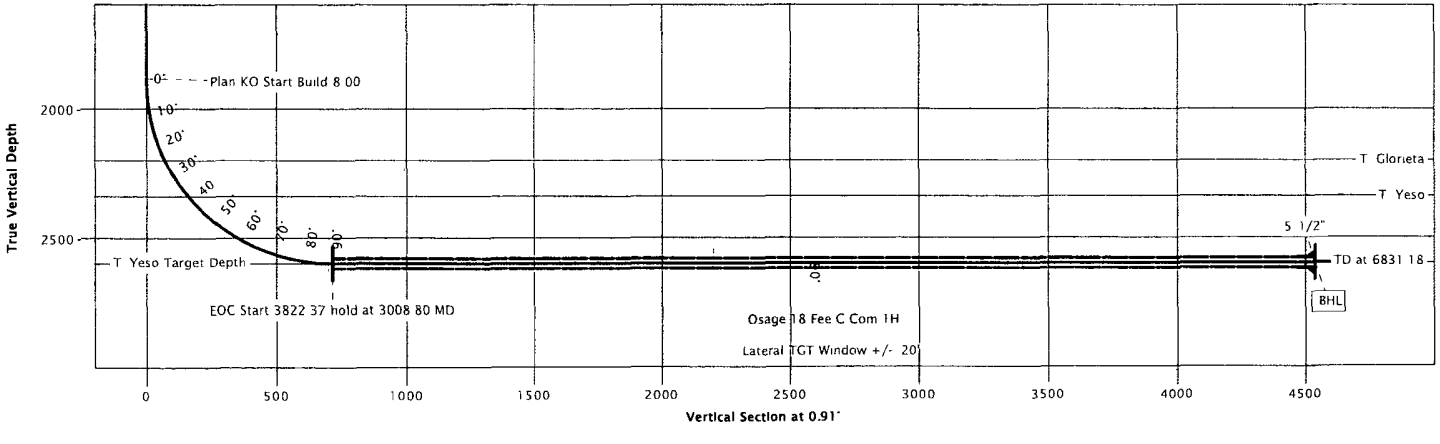
DESIGN TARGET DETAILS

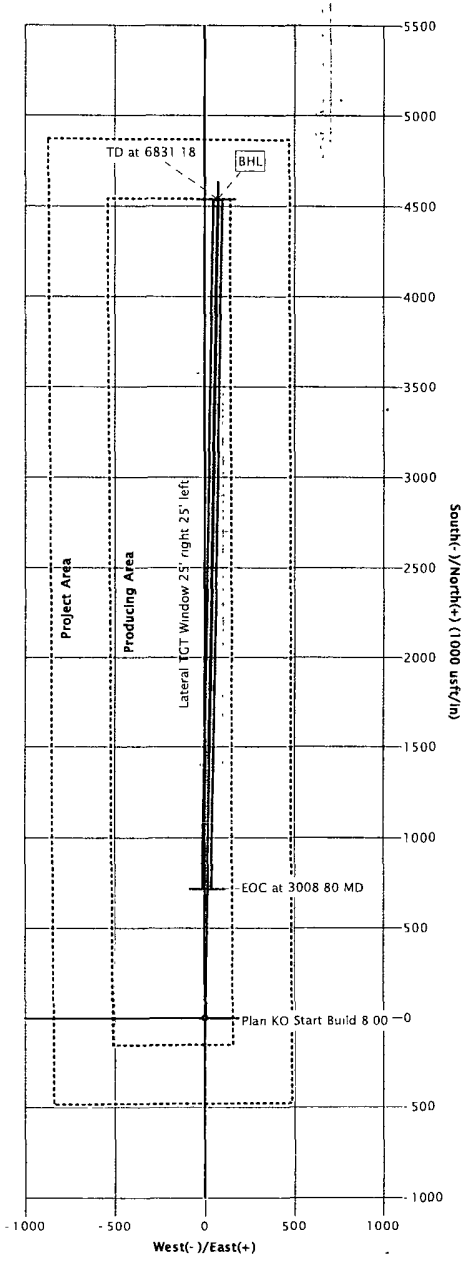
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Lateral TGT Window +/- 20' - plan hits target center	2600 00	716.11	11 36	570953 11	439530.36	Rectangle
Osage Fee C Com 1H BHL - plan hits target center	2600 00	4538 00	72.00	574775 00	439591 00	Point



Azimuths to Grid North
True North 0 11°
Magnetic North 8 09

Magnetic Field
Strength 48656 9snT
Dip Angle 60 32°
Date 01/08/2012
Model IGRF2010





Database:	EDM-OXY-DB	**Local Co-ordinate Reference:**	Well Osage 18 Fee C Com 1H
Company:	OXY	**TVD Reference:**	KB @ 3592.90usft (H&P 345)
Project:	Eddy County, New Mexico. Osage	**MD Reference:**	KB @ 3592.90usft (H&P 345)
Site:	Osage	**North Reference:**	Grid
Well:	Osage 18 Fee C Com 1H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #1		

Project Eddy County, New Mexico: Osage, New Mexico, Osage 18

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Osage

Site Position:		**Northing:**	570,099 80 usft	**Latitude:**	32° 34' 1 817 N
From:	Map	**Easting:**	442,226 80 usft	**Longitude:**	104° 31' 15 114 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0 10 °

Well Osage 18 Fee C Com 1H

Well Position	**+N/-S**	137 20 usft	**Northing:**	570,237.00 usft	**Latitude:**	32° 34' 3 127 N
	+E/-W	-2,707.80 usft	**Easting:**	439,519.00 usft	**Longitude:**	104° 31' 46 759 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,576 40 usft

Wellbore Original Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/08/12	7 98	60 32	48,657

Design Design #1

Audit Notes:

Version:	1	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 00	0 00	0 00	0 91

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0 00	0.00	0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	
1,883 80	0 00	0.00	1,883.80	0.00	0 00	0.00	0.00	0 00	0 00	
3,008 80	90.00	0.91	2,600.00	716.11	11 36	8.00	8 00	0.00	0.91	
6,831 18	90 00	0 91	2,600.00	4,538.00	72 00	0.00	0.00	0 00	0.00	Osage Fee C Com 1H

Database:	EDM-OXY-DB	Local Co-ordinate Reference:	Well Osage 18 Fee C Com 1H
Company:	OXY	TVD Reference:	KB @ 3592.90usft (H&P 345)
Project:	Eddy County, New Mexico: Osage	MD Reference:	KB @ 3592 90usft (H&P 345)
Site:	Osage	North Reference:	Grid
Well:	Osage 18 Fee C Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0 00	0 00	0.00	0.00	0 00	0 00	0.00	0 00	0.00
100.00	0 00	0 00	100 00	0.00	0 00	0.00	0 00	0 00	0 00
200 00	0 00	0.00	200 00	0 00	0.00	0 00	0 00	0.00	0 00
300 00	0 00	0 00	300 00	0 00	0 00	0.00	0 00	0.00	0 00
358 40	0 00	0 00	358 40	0.00	0.00	0.00	0 00	0 00	0 00
T. Grayburg									
400.00	0 00	0 00	400.00	0.00	0 00	0 00	0 00	0 00	0 00
9 5/8"									
500.00	0 00	0 00	500 00	0.00	0.00	0 00	0 00	0 00	0.00
600.00	0 00	0 00	600 00	0.00	0.00	0.00	0 00	0 00	0.00
658 40	0 00	0.00	658.40	0 00	0 00	0 00	0 00	0.00	0.00
T. San Andres									
700.00	0 00	0 00	700 00	0 00	0 00	0 00	0 00	0 00	0.00
800 00	0.00	0 00	800 00	0.00	0 00	0 00	0 00	0 00	0 00
900.00	0 00	0.00	900.00	0 00	0 00	0 00	0 00	0 00	0 00
1,000.00	0 00	0 00	1,000 00	0 00	0 00	0.00	0.00	0 00	0 00
1,100 00	0 00	0 00	1,100 00	0 00	0 00	0.00	0 00	0 00	0 00
1,200 00	0.00	0.00	1,200.00	0 00	0 00	0 00	0.00	0 00	0.00
1,300.00	0 00	0.00	1,300 00	0 00	0 00	0 00	0.00	0 00	0 00
1,400.00	0.00	0.00	1,400.00	0.00	0 00	0 00	0.00	0 00	0 00
1,500 00	0 00	0 00	1,500 00	0 00	0 00	0.00	0 00	0 00	0 00
1,600.00	0 00	0 00	1,600 00	0 00	0.00	0 00	0 00	0.00	0 00
1,700.00	0.00	0 00	1,700.00	0 00	0.00	0 00	0.00	0 00	0 00
1,800 00	0 00	0 00	1,800 00	0 00	0.00	0.00	0 00	0.00	0 00
1,883 80	0.00	0 00	1,883.80	0.00	0 00	0 00	0 00	0 00	0 00
1,900 00	1 30	0 91	1,900.00	0.18	0.00	0 18	8 00	8 00	0.00
1,950.00	5 30	0 91	1,949 91	3.06	0 05	3 06	8 00	8 00	0 00
2,000 00	9 30	0.91	1,999 49	9.40	0 15	9.41	8 00	8 00	0 00
2,050 00	13.30	0.91	2,048 51	19 19	0 30	19.20	8 00	8.00	0 00
2,100 00	17.30	0.91	2,096.73	32 38	0 51	32 38	8 00	8.00	0 00
2,150 00	21.30	0.91	2,143 91	48 90	0 78	48 90	8 00	8 00	0 00
2,200.00	25 30	0 91	2,189 83	68.66	1 09	68.67	8 00	8.00	0 00
2,209.51	26 06	0 91	2,198 40	72 79	1 15	72 79	8 00	8.00	0 00
T. Glorieta									
2,250 00	29 30	0 91	2,234 25	91 59	1.45	91 60	8 00	8.00	0 00
2,300.00	33 30	0 91	2,276 97	117 55	1 87	117 57	8 00	8 00	0 00
2,350.00	37.30	0.91	2,317 77	146 43	2 32	146 45	8 00	8 00	0 00
2,376.31	39 40	0.91	2,338.40	162 75	2.58	162.77	8 00	8 00	0.00
T. Yeso									
2,400 00	41 30	0 91	2,356 45	178.09	2.83	178.11	8 00	8 00	0 00
2,450.00	45 30	0 91	2,392 84	212 36	3.37	212 39	8 00	8 00	0 00
2,500.00	49 30	0 91	2,426.74	249 09	3 95	249 13	8 00	8 00	0 00
2,550.00	53 30	0 91	2,458.00	288.10	4 57	288 14	8 00	8 00	0 00
2,600.00	57 30	0.91	2,486.46	329.19	5 22	329 23	8 00	8.00	0 00
2,650 00	61.30	0 91	2,511 99	372 17	5 90	372.22	8 00	8 00	0 00
2,700.00	65 30	0 91	2,534.45	416.82	6.61	416.87	8.00	8 00	0.00
2,750 00	69.30	0 91	2,553 75	462 93	7 34	462 99	8 00	8 00	0.00
2,800 00	73 30	0 91	2,569.78	510.28	8 10	510 34	8.00	8 00	0.00
2,850 00	77 30	0 91	2,582.47	558.62	8 86	558 69	8 00	8 00	0.00
2,900.00	81 30	0.91	2,591.75	607 74	9 64	607 81	8 00	8 00	0 00
2,950 00	85 30	0.91	2,597.59	657 38	10.43	657.46	8 00	8.00	0 00
3,000.00	89 30	0 91	2,599.95	707 31	11 22	707 39	8 00	8.00	0 00
3,008 81	90 00	0.91	2,600 00	716 11	11 36	716 20	8 00	8.00	0 00

Database:	EDM-OXY-DB	Local Co-ordinate Reference:	Well Osage 18 Fee C Com 1H
Company:	OXY	TVD Reference:	KB @ 3592.90usft (H&P 345)
Project:	Eddy County, New Mexico. Osage	MD Reference:	KB @ 3592.90usft (H&P 345)
Site:	Osage	North Reference:	Grid
Well:	Osage 18 Fee C Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
T. Yeso Target Depth - Lateral TGT Window +/- 20' - Lateral TGT Window +/- 20' (Osage 18 Fee C Com 1H									
3,100 00	90 00	0.91	2,600 00	807.29	12.81	807 39	0.00	0 00	0 00
3,200.00	90.00	0.91	2,600.00	907 28	14 39	907 39	0 00	0 00	0 00
3,300.00	90 00	0 91	2,600 00	1,007 27	15 98	1,007 39	0 00	0 00	0.00
3,400 00	90.00	0.91	2,600.00	1,107 26	17 57	1,107 39	0 00	0.00	0 00
3,500 00	90.00	0.91	2,600 00	1,207 24	19 15	1,207 39	0.00	0 00	0 00
3,600.00	90 00	0 91	2,600 00	1,307 23	20.74	1,307 39	0 00	0.00	0 00
3,700 00	90 00	0 91	2,600.00	1,407 22	22 33	1,407 39	0 00	0 00	0 00
3,800 00	90 00	0.91	2,600.00	1,507 20	23 91	1,507 39	0.00	0 00	0 00
3,900 00	90 00	0.91	2,600 00	1,607 19	25 50	1,607 39	0.00	0 00	0 00
4,000.00	90.00	0.91	2,600.00	1,707 18	27 09	1,707 39	0 00	0 00	0 00
4,100.00	90.00	0 91	2,600.00	1,807 17	28 67	1,807 39	0.00	0 00	0 00
4,200.00	90.00	0 91	2,600.00	1,907 15	30 26	1,907 39	0 00	0 00	0.00
4,300 00	90 00	0 91	2,600.00	2,007 14	31 85	2,007 39	0 00	0 00	0.00
4,400 00	90.00	0.91	2,600.00	2,107 13	33.43	2,107 39	0 00	0.00	0.00
4,500 00	90 00	0 91	2,600.00	2,207 12	35.02	2,207.39	0 00	0 00	0 00
4,600 00	90 00	0 91	2,600.00	2,307 10	36 60	2,307 39	0 00	0 00	0 00
4,700.00	90 00	0 91	2,600.00	2,407.09	38.19	2,407 39	0.00	0 00	0.00
4,800.00	90.00	0.91	2,600 00	2,507 08	39 78	2,507 39	0.00	0 00	0 00
4,900 00	90 00	0 91	2,600.00	2,607 07	41.36	2,607 39	0 00	0.00	0.00
5,000 00	90 00	0 91	2,600 00	2,707.05	42.95	2,707 39	0 00	0 00	0 00
5,100.00	90.00	0 91	2,600 00	2,807.04	44 54	2,807 39	0.00	0 00	0 00
5,200.00	90 00	0 91	2,600 00	2,907 03	46 12	2,907 39	0.00	0 00	0.00
5,300 00	90 00	0 91	2,600 00	3,007 02	47 71	3,007 39	0.00	0 00	0.00
5,400 00	90 00	0.91	2,600.00	3,107.00	49.30	3,107 39	0.00	0 00	0 00
5,500 00	90 00	0 91	2,600 00	3,206.99	50 88	3,207.39	0.00	0 00	0 00
5,600.00	90.00	0 91	2,600.00	3,306 98	52.47	3,307.39	0.00	0 00	0.00
5,700 00	90.00	0.91	2,600.00	3,406.97	54.05	3,407 39	0 00	0 00	0 00
5,800.00	90.00	0 91	2,600.00	3,506 95	55 64	3,507 39	0 00	0 00	0 00
5,900 00	90 00	0 91	2,600 00	3,606 94	57 23	3,607 39	0 00	0 00	0 00
6,000 00	90 00	0.91	2,600.00	3,706.93	58.81	3,707 39	0 00	0 00	0 00
6,100.00	90 00	0.91	2,600.00	3,806.92	60.40	3,807.39	0 00	0.00	0 00
6,200 00	90 00	0 91	2,600 00	3,906 90	61 99	3,907 39	0 00	0.00	0 00
6,300.00	90 00	0.91	2,600 00	4,006 89	63 57	4,007.39	0 00	0.00	0 00
6,400 00	90.00	0 91	2,600 00	4,106 88	65 16	4,107 39	0.00	0 00	0 00
6,500 00	90 00	0 91	2,600.00	4,206.87	66 75	4,207.39	0.00	0.00	0 00
6,600.00	90 00	0 91	2,600 00	4,306 85	68.33	4,307 39	0.00	0.00	0 00
6,700 00	90 00	0 91	2,600.00	4,406.84	69.92	4,407 39	0.00	0 00	0 00
6,800 00	90 00	0 91	2,600.00	4,506.83	71.51	4,507.39	0 00	0 00	0 00
6,831 18	90 00	0 91	2,600 00	4,538 00	72 00	4,538.57	0 00	0 00	0 00
Osage Fee C Com 1H BHL									

Database:	EDM-OXY-DB	Local Co-ordinate Reference:	Well Osage 18 Fee C Com 1H
Company:	OXY	TVD Reference:	KB @ 3592 90usft (H&P 345)
Project:	Eddy County, New Mexico: Osage	MD Reference:	KB @ 3592.90usft (H&P 345)
Site:	Osage	North Reference:	Grid
Well:	Osage 18 Fee C Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #1		

Design Targets

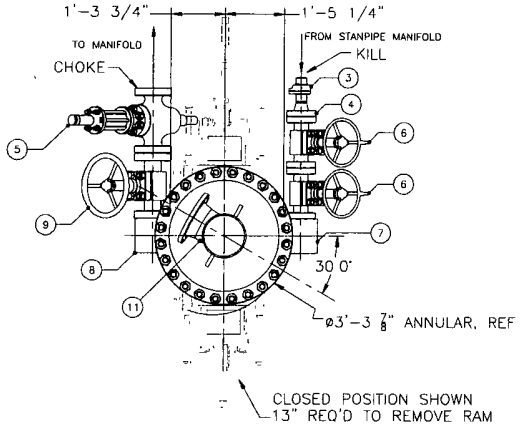
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Lateral TGT Window +/- - plan hits target center - Rectangle (sides W50.00 H3,822.37 D40 00)	0.00	0.91	2,600.00	716.11	11.36	570,953 11	439,530 36	32° 34' 10 213 N	104° 31' 46.642 W
Osage Fee C Com 1H B - plan hits target center - Point	0 00	360 00	2,600 00	4,538.00	72 00	574,775.00	439,591 00	32° 34' 48 035 N	104° 31' 46.016 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
400.00	400.00	9 5/8"	9-5/8	12-1/4
6,831.18	2,600 00	5 1/2"	5-1/2	6

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
358.40	358.40	T Grayburg		0 00	
658.40	658.40	T San Andres		0.00	
2,209 51	2,198 40	T Glorieta		0 00	
2,376 31	2,338 40	T Yeso		0 00	
3,008 80	2,600.00	T Yeso Target Depth		0.00	
3,008.80	2,600.00	Lateral TGT Window +/- 20'		0.00	0.91



PROPER TORQUE FOR BOLTS

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

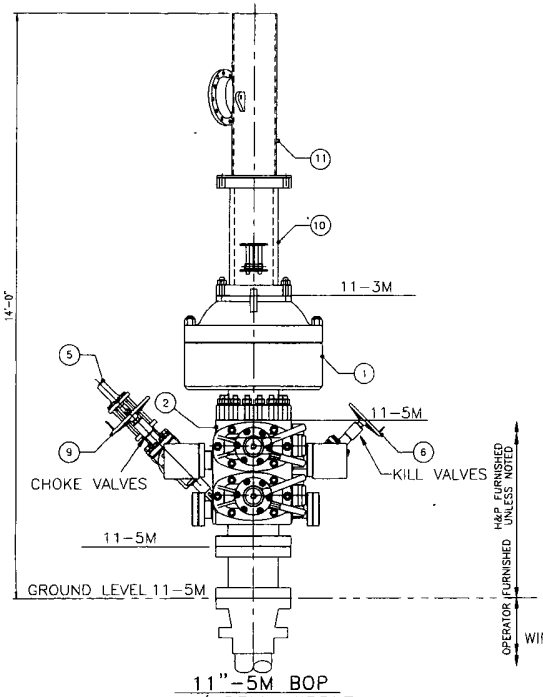
BILL OF MATERIAL

ITEM NO.	QUAN	DESCRIPTION	PART NUMBER	WEIGHT
		11-5M BOP ASSEMBLY		
1	1	ANNULAR, 11x3M BOLTED TYPE		6005
2	1	BOP DOUBLE RAM		7600
	4	RAM ELEMENTS		444
3	1	HAMMER UNION, 2-1502# XXH (BW)		5
4	1	FLANGE, WN 2 1/16-5M API		42
5	1	VALVE, GATE FLS-HCR 3 1/8-5M		396
6	2	VALVE, GATE 2 1/16-5M		350
7	1	90° STUDDED BLOCK, 3 1/8-5M X 2 1/16-5M		240
8	1	90° STUDDED BLOCK, 3 1/8-5M X 3 1/8-5M		250
9	2	VALVE, GATE 3 1/8-5M		720
10	1	BELL NIPPLE BOP LIFTING SECTION	MK F4M-H-318 01A	780
11	1	BELL NIPPLE EXTENSION	MK F4M-H-319 01A	396
12	1	11"-5M x 11"-5M x 1'-3" LONG SPACER		600
		SPOOL- WORKING PRESSURE 5000 PSI		

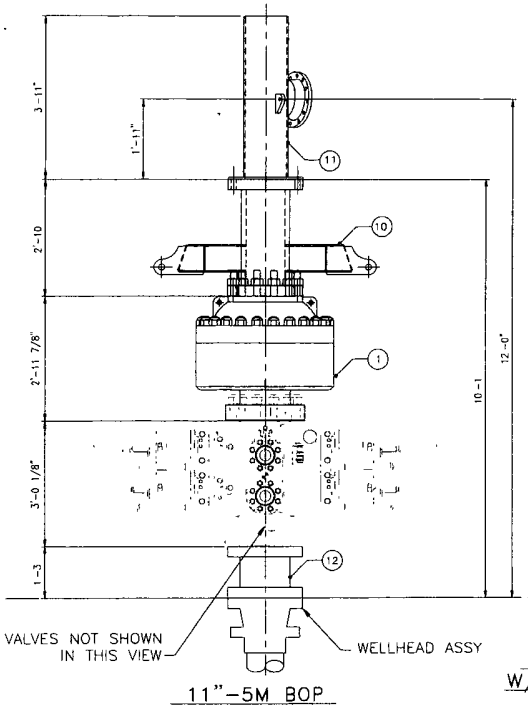
HARDWARE

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

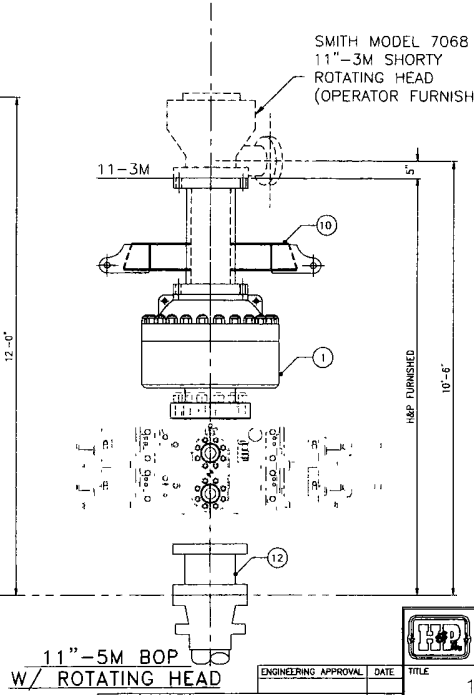
APPROX TOTAL WEIGHT = 18,228 LBS.



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
B	08/08/08	ADDED 1 OF 4 SHTS WAS 1 OF 3	DRJ
B	07/29/08	SHEET 1 OF 3 WAS 1 OF 5	DRJ

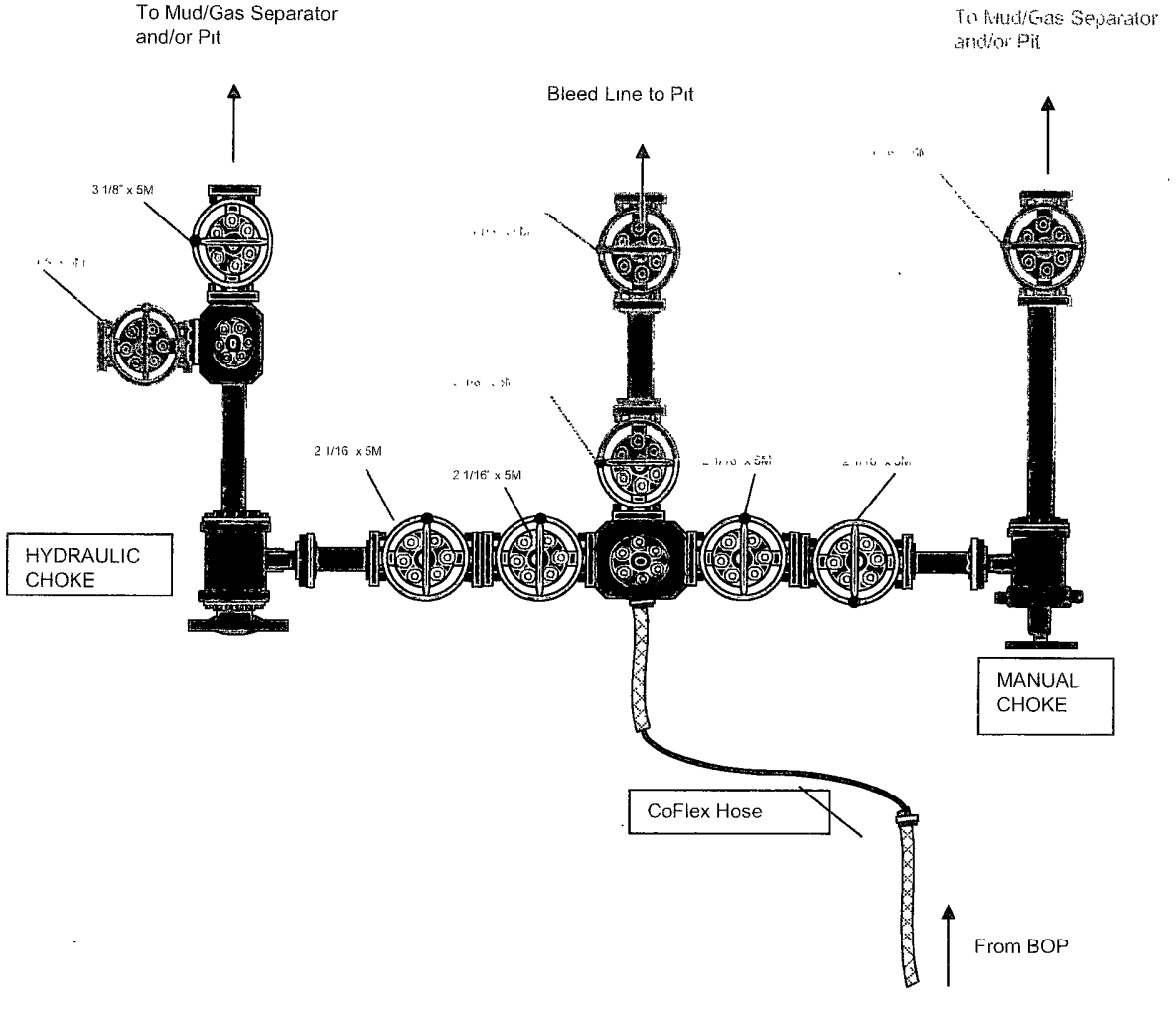
ENGINEERING APPROVAL DATE

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO

TITLE
11-5M BOP EQUIPMENT
GENERAL ARRANGEMENT

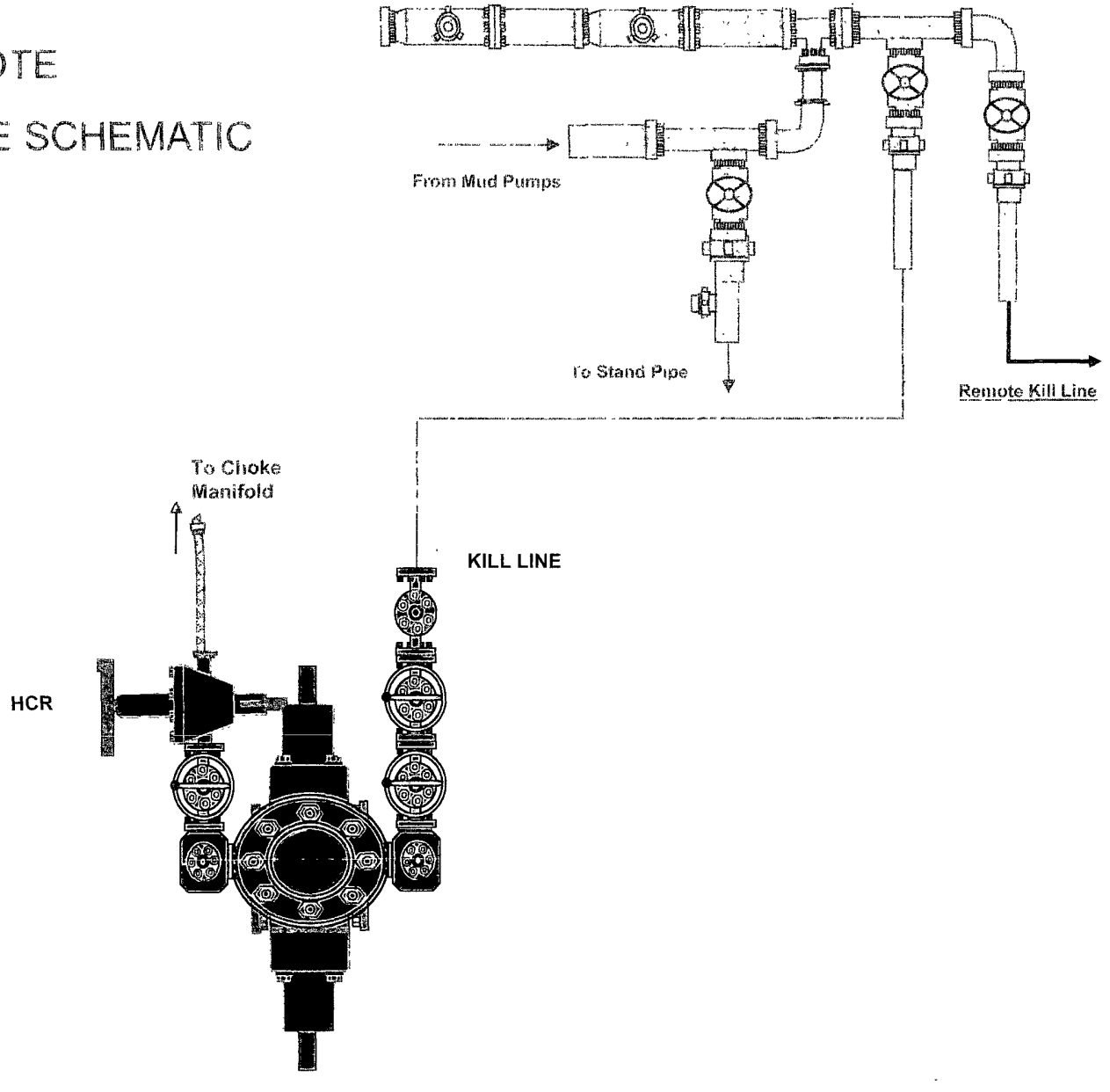
CUSTOMER OXY-PERMIAN
PROJECT F4M
DRAWN DJOHNSON DATE 07/14/08
SCALE NTS SHEET 1 OF 4
DWG NO F4M-H-320
REV B

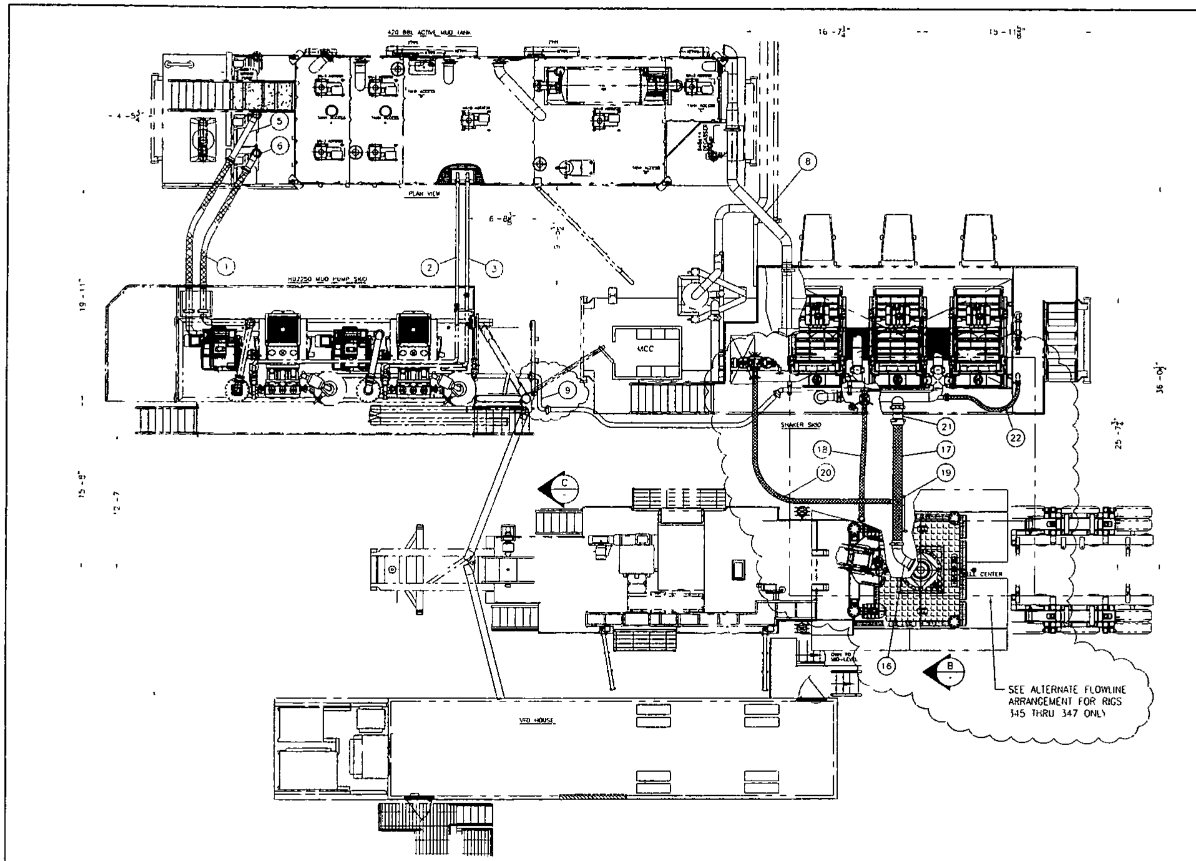
5M CHOKE MANIFOLD CONFIGURATION



5M REMOTE

KILL LINE SCHEMATIC





PARTIAL PLAN VIEW

BILL OF MATERIAL

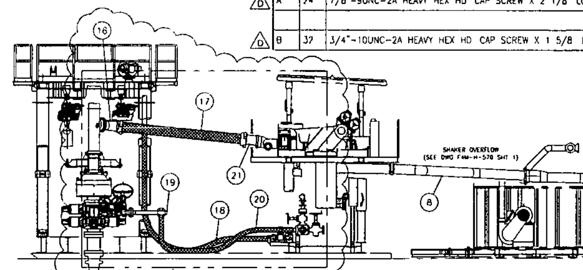
	ITEM NO.	QUAN	DESCRIPTION	PART NUMBER	WT
D	1	2	LOW PRESSURE SPOOL #1	MK F4M-H-570 01F	239
D	2	1	POP-OFF/BLEED SPOOL #1	MK F4M-H-570 01A	157
D	3	1	POP-OFF/BLEED SPOOL #2	MK F4M-H-570 01B	140
D	4		DELETED		
D	5	1	LOW PRESSURE SUCTION SPOOL #1	MK F4M-H-570 01D	199
D	6	1	LOW PRESSURE SUCTION SPOOL #2	MK F4M-H-570 01H	101
D	7	1	HOSE-HIGH PRESSURE	MK F4M-H-570 01G	276
D	8	1	OVERFLOW RETURN SPOOL	MK F4M-H-563 06A	678
D	9	1	MUD PUMP/SHAKER SKID SPOOL	MK F4M-H-570 01E	181
	10	22FT	TS 1 1/2x1 1/2x3/16 (A500)		150
D	11	1	POP-OFF PIPE HANGER SUPPORT	MK F4M-H-570 01C	30
	12	1	L3x3x1/4 (1'-6" LG) (A36)		7
	13	1	L3x3x1/4 (1'-6" LG) (A36)		7
	14	1	PLATE, 1/4" THK 4x2-3 1/4" (A36)		8
	15	1	L3x3x1/4 (4'-11 3/4" LG) (A36)		25
D	16	1	SHAKER FLOWLINE	MK F4M-H-562 02A	230
D	17	1	SHAKER FLOWLINE	MK F4M-H-562 02B	281
D	18	1	HOSE	MK F4M-H-563 03E	
D	19	1	SPOOL #1	MK F4M-H-564 02A	182
D	20	1	HIGH PRESSURE HOSE 3" ID x 29'-0" LG	PHOENIX BEATTY	
			WITH 3 1/8" - 5M FLANGED ENDS		
D	21	1	SHAKER FLOWLINE	MK F4M-H-562 02C	73
D	22	1	SHAKER SPOOL	MK F4M-H-562 03B	177

RIGS 345 - 347 ONLY

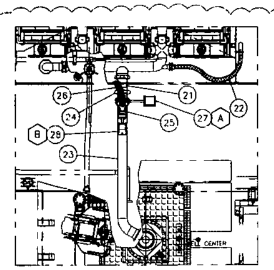
BILL OF MATERIAL

THESE ITEMS REPLACE ITEMS 16 & 17 (items 23–28)

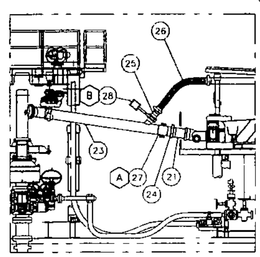
	ITEM NO.	QUAN	DESCRIPTION	PART NUMBER	WT
D	23	1	SHAKER FLOWLINE	MK F4M-H-569-04A	656
D	24	1	SHAKER FLOWLINE	MK F4M-H-569-04B	118
D	25	1	SHAKER FLOWLINE	MK F4M-H-569-04C	67
D	26	1	SHAKER FLOWLINE HOSE	MK F4M-H-569-04D	77
D	27	1	FABRI - 10" AIR ACTUATED KNIFE GATE VALVE		66
D	28	1	FABRI - 6" AIR ACTUATED KNIFE GATE VALVE		52
D			HARDWARE		
D	A	24	7/8"-9UNC-2A HEAVY HEX HD CAP SCREW X 2 1/8" LG		18
D	B	32	3/4"-10UNC-2A HEAVY HEX HD CAP SCREW X 1 5/8 LG		12



SECTION B-B



PARTIAL PLAN VIEW



PARTIAL ELEVATION VIEW

ALTERNATE FLOWLINE ARRANGEMENT
(FOR RIGS 345 THRU 347 ONLY)

ISSUED FOR FABRICATION
October-23-2008
DRAFTSMAN ________
ENGINEER ________

REV	DATE	DESCRIPTION	BY
D	10/23/08	REV'D ITEM 8 WT. PER DCN 344 02- ADD ALT FLOWLINE, ADD ITEMS 18 THRU 28 & HARDWARE A & B; CORRECT MK #'S FOR ITEMS 1 THRU 7, 9 & 11	CC/MWL
C	09/04/08	MOVE MUD TANK CLOSER TO SHAKER UPDATED PIPING	DRJ
B	08/05/08	ADDED SHT 2 & BOM	DRJ
A	07/17/08	ADDED XX-HVY PIPING TO POP-OFF	DRJ

ENGINEERING APPROVAL	DATE

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO

TITLE: MUD SYSTEM
INTERCONNECT PIPING ASSEMBLY

CUSTOMER: OXY PERMIAN

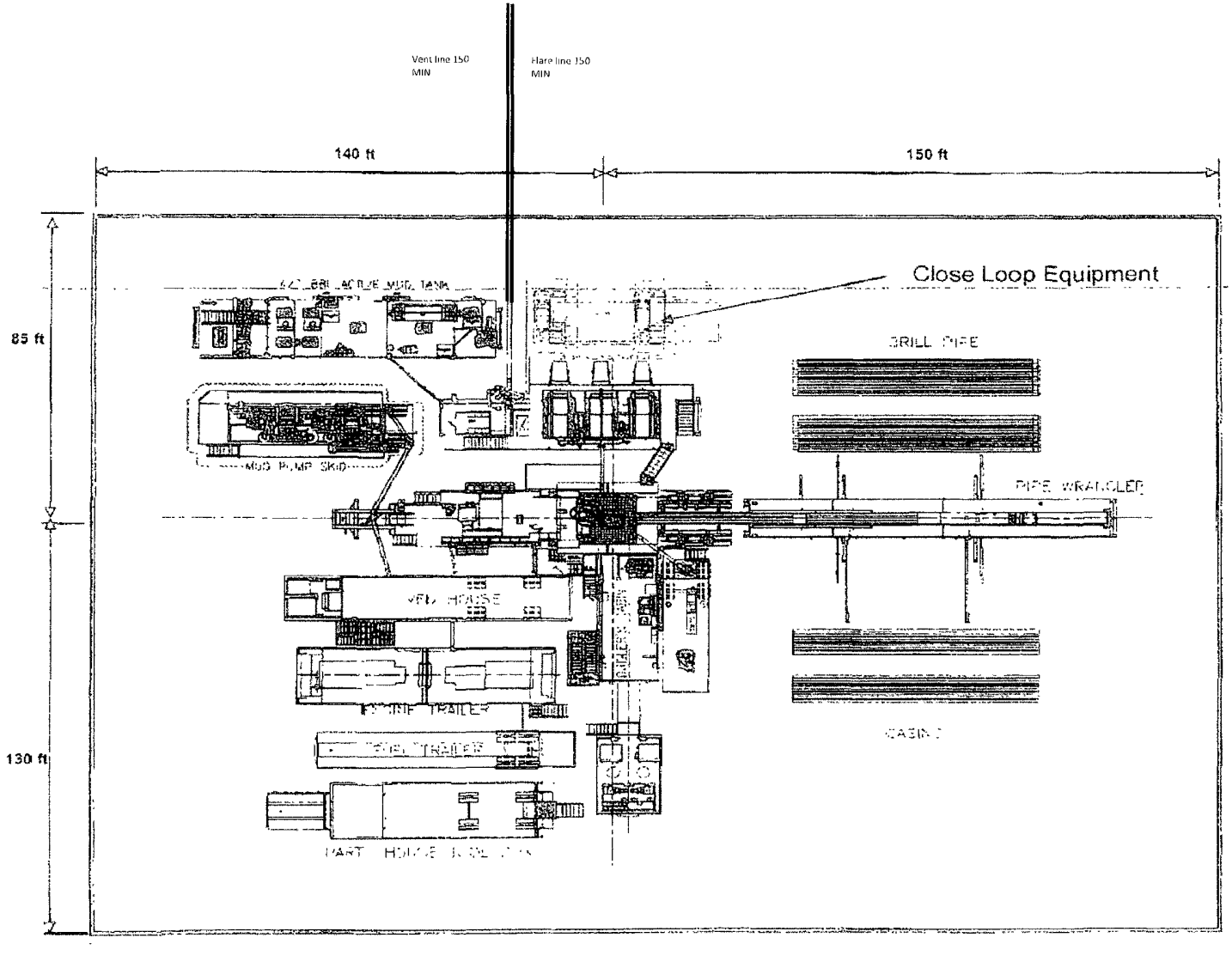
PROJECT: F4M

DRAWN: DJOHNSON | DATE: 07/08/08 | DWG NO: F4M-H-568 | REV: D

SCALE: 3/16"=1'-0" | SHEET 1 OF 2

OXY FLEX IV PAD (Closed Loop System)

Revised 09/14/2009



Continental
CONTITECH

Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

CERT. N°: 128

PURCHASER:	ContiTech Beattie Co	P.O. N°:	004721
CONTITECH ORDER N°:	490278	HOSE TYPE: 3" ID	Choke and Kill Hose
HOSE SERIAL N°:	60220	NOMINAL / ACTUAL LENGTH:	7,62 m / 7,64 m

W P	34,48	MPa	5000	psi	T P	68,9	MPa	10000	psi	Duration	60	min.

Pressure test with water at ambient temperature

See attachment. (1 page)

↑ 10 mm = 10 Min.

→ 10 mm = 20 MPa

COUPLINGS Type	Serial N°		Quality	Heat N°
3" coupling with	160	159	AISI 4130	Y0515A
4 1/16" Flange end			AISI 4130	31694

ASSET NO. : 66-0606

API Spec 16 C

Temperature rate:"B"

All metal parts are flawless

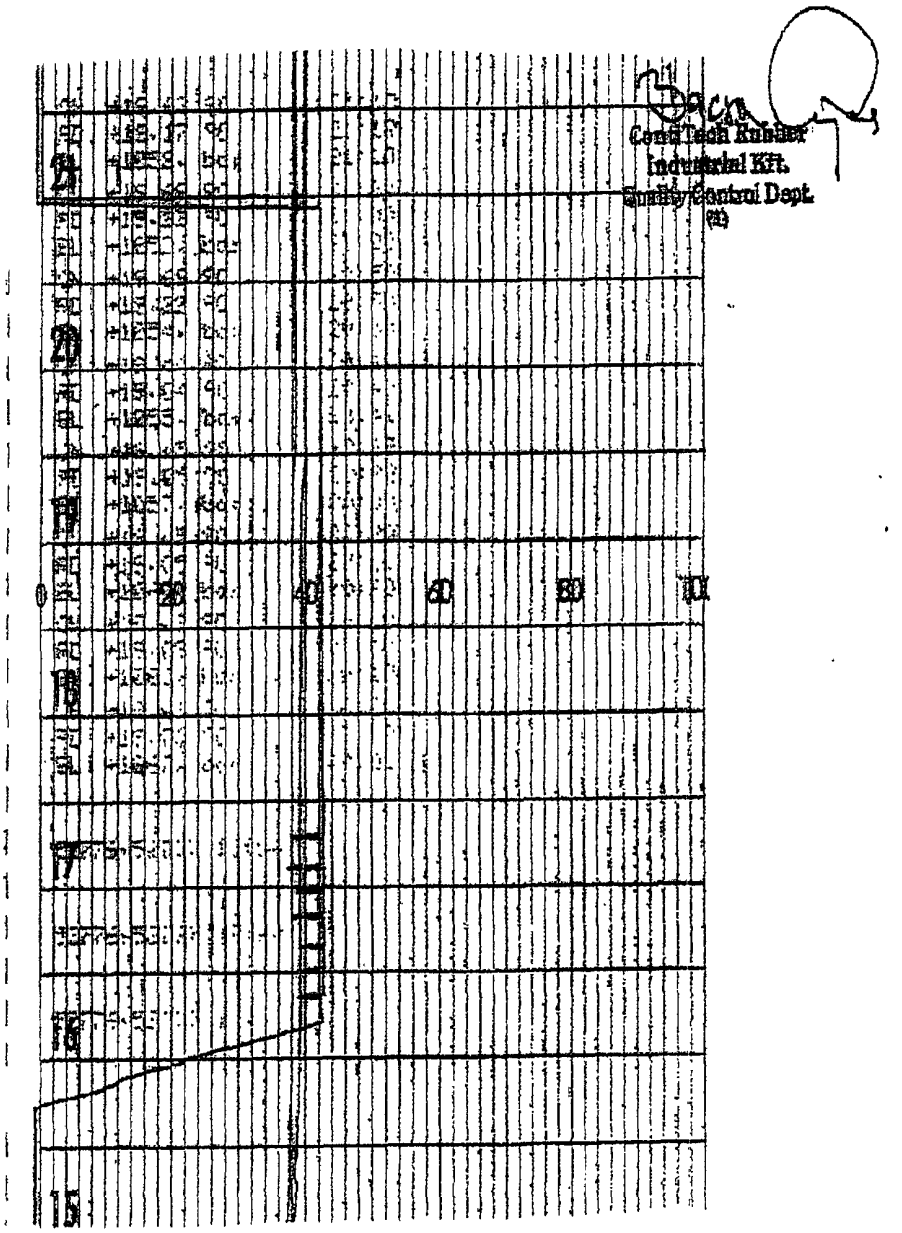
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

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.

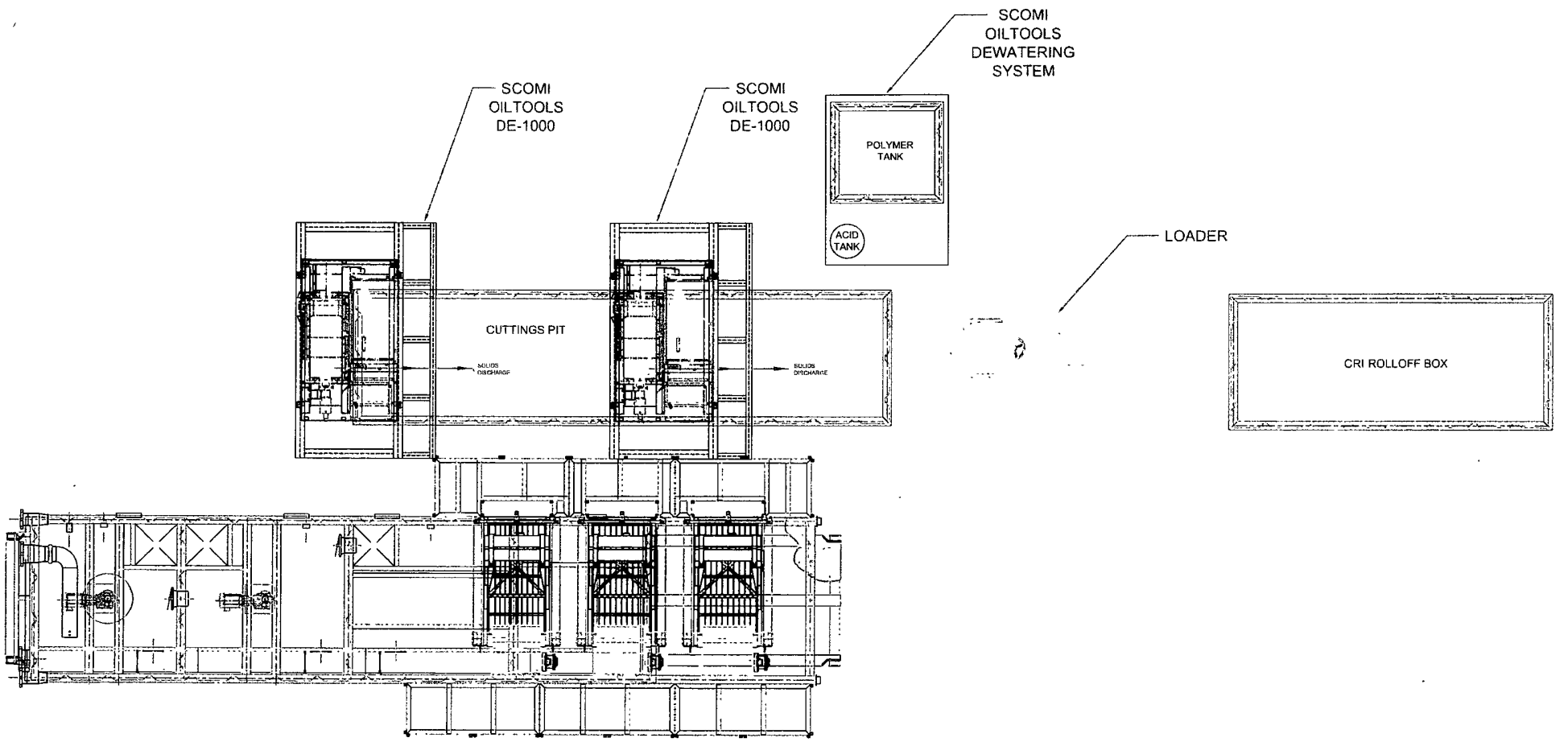
COUNTRY OF ORIGIN HUNGARY/EU

Date	Inspector	Quality Control
07 February 2011		ContiTech Rubber Industrial Kft. Quality Control Dept.

Coflex Hose Certification



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

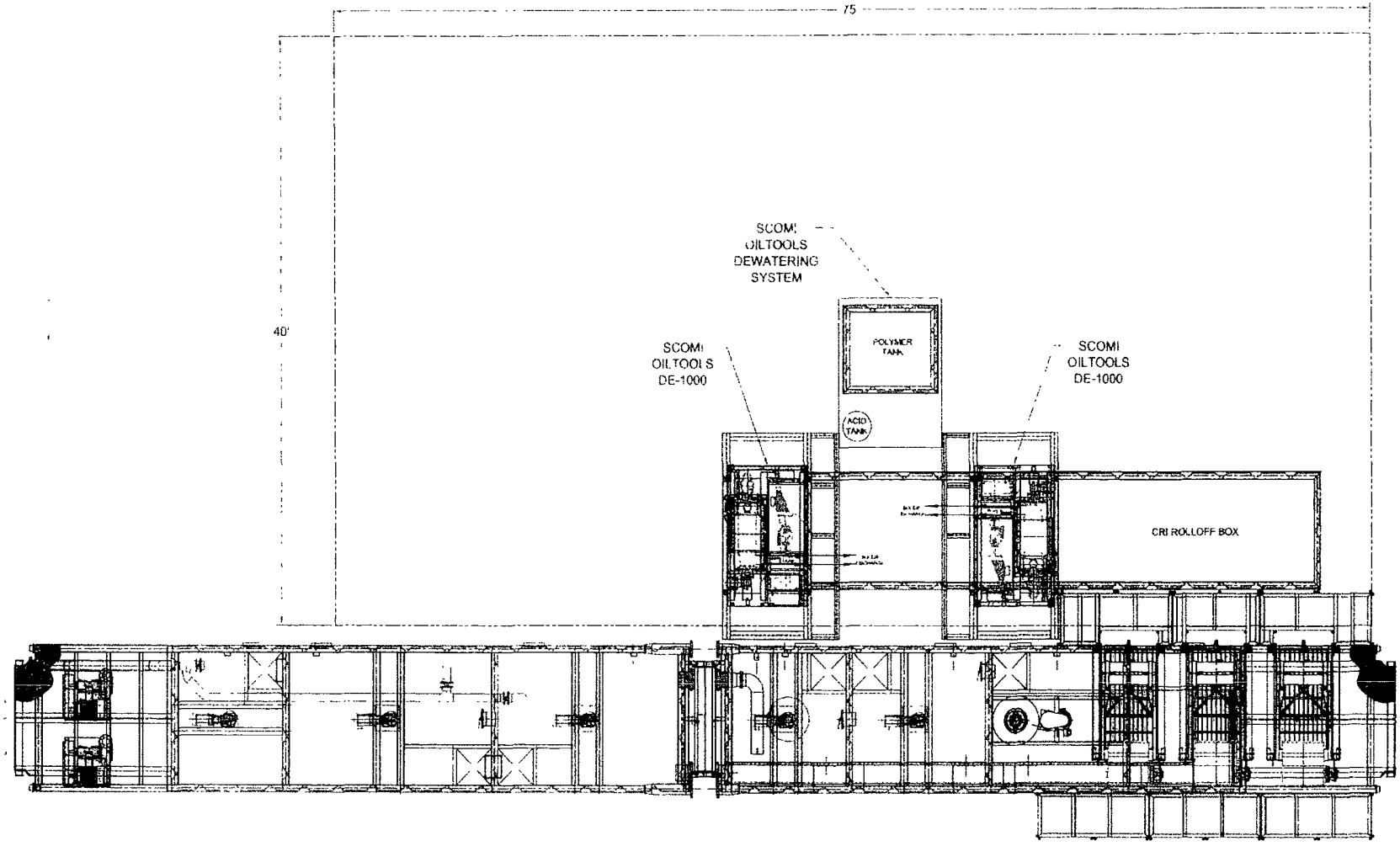
CLOSED LOOP SYSTEM
BASIC LAYOUT
OXY - H&P - FLEX 4 M

DRWN BY	DATE	CHECKED BY	DATE
PDL	3/30/09		
APPROVED	DATE	SCALE	ACAD DWG:
		NTS	D

Scomi
521 N. Sam Houston Parkway East, Suite 300,
Houston, Texas 77060
PHONE: (281)-260-6010, FAX: (281)-260-6069

JOB NO	DRAWING NO	REV
	521S-027	

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	LENGTH	WEIGHT



1. ALL STRUCTURAL MATERIAL SHALL BE A572 Gr. 50
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

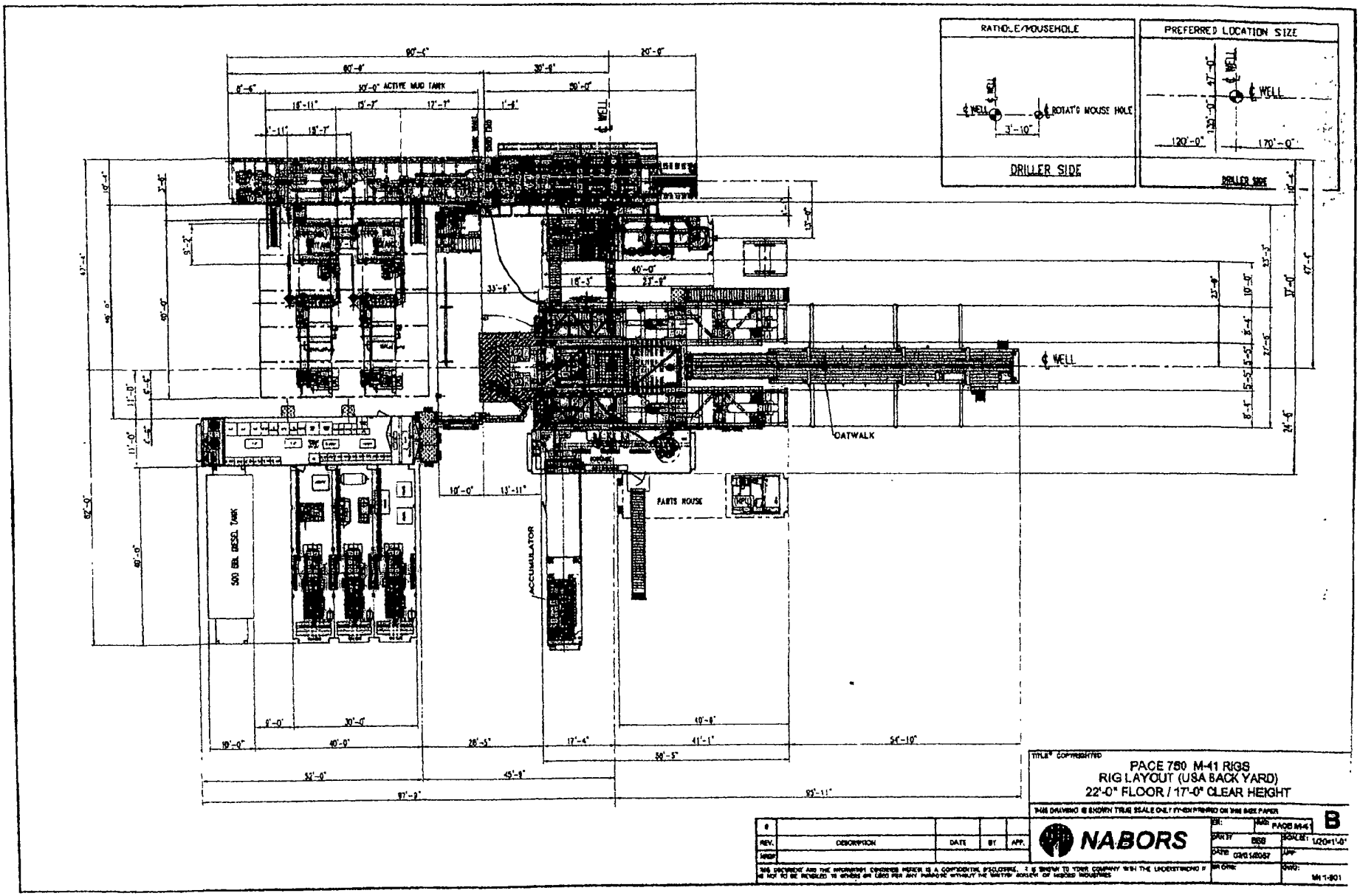
TITLE
CLOSED LOOP SYSTEM
BASIC LAYOUT AND TIE IN
OXY - H&P - FLEX RIGS / PG 1 OF 2

DRAWN BY	DATE	CHECKED BY	DATE
PDI	10/30/08		
APPROVED	DATE	SCALE	SIZE
		NTS	D

Scomi

341 N. Belle Meadow Parkway Road, Belle Vue
Beaumont, Texas 77705
PHONE: (281)-866-8915, FAX: (281)-860-0000

JOB NO	DRAWING NO	REV
	521S-014	A



TITLE® COPYRIGHTED

PACE 750 M-41 RIGS
RIG LAYOUT (USA BACK YARD)
22'-0" FLOOR / 17'-0" CLEAR HEIGHT

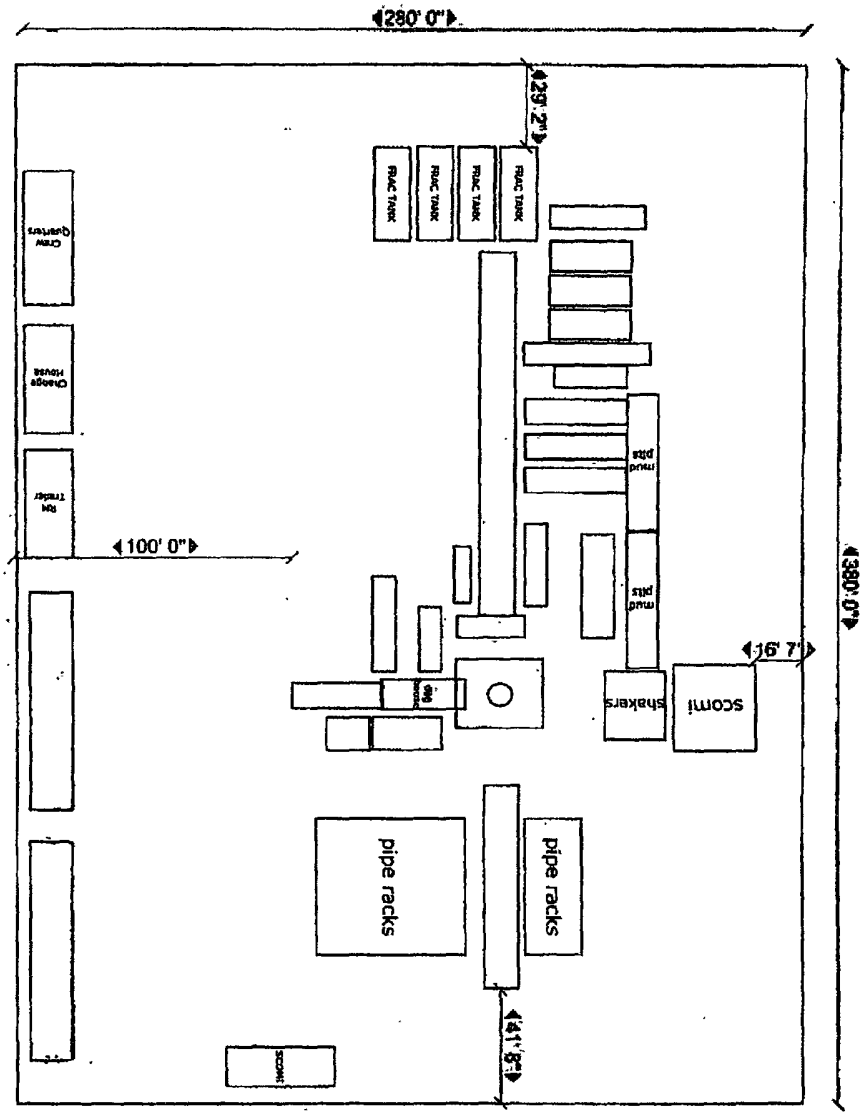
THIS DRAWING IS KNOWN TRUE SCALE ONLY WHEN PRINTED ON THE SIDE PAPER

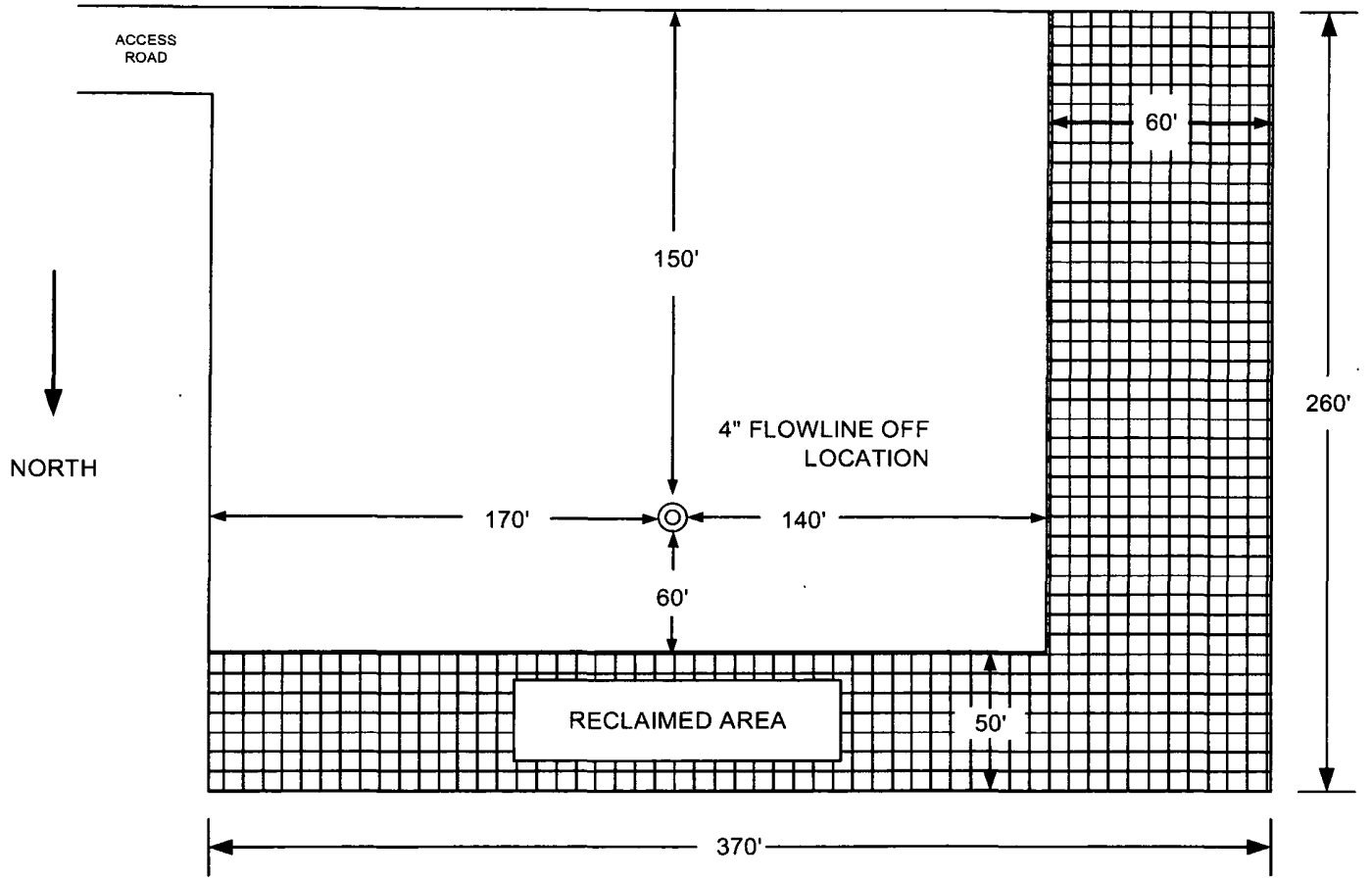
REV.	DESCRIPTION	DATE	BY	APP.
0				
MSP				

NABORS

SIZE:	MODEL: PACE M-41		B
DRAWN BY:	BSB	SCALE:	1/20=1'-0"
DATE:	03/13/2007	APP:	
DRAWING:		DWG:	M41-801

THIS DRAWING AND THE INFORMATION CONTAINED HEREIN IS A CONFIDENTIAL DISCLOSURE ... IS SHOWN TO YOUR COMPANY WITH THE UNDERSTANDING THAT IT WILL NOT BE REVEALED TO ANYONE OUTSIDE YOUR COMPANY WITHOUT THE WRITTEN CONSENT OF NABORS INDUSTRIES


280' 0"
29' 2"
FRAC TANK
FRAC TANK
FRAC TANK
FRAC TANK
Crew quarters
Change house
Rig Tracker
100' 0"
mud pits
mud pits
380' 0"
16' 7"
Shakers
Scomi
pipe racks
pipe racks
41' 8"
scomi



REVISION BLOCK						ENGINEERING RECORD	
NO.	DATE	DESCRIPTION	BY	CHK	APP	BY	DATE
1	7/26/12	Facility Layout for Permiting				DRN: MEE	7/26/12
						DES.	
						CHK.	
						APP:	
						AFE:	

FACILITY LAYOUT
Osage 18 Fee C Com #1H

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA Inc
LEASE NO.:	NM99016
WELL NAME & NO.:	1H Osage 18 Fee C Com
SURFACE HOLE FOOTAGE:	480' FSL & 840' FWL
BOTTOM HOLE FOOTAGE	330' FNL & 940' FWL
LOCATION:	Section 18, T.20 S., R.25 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.