



HOBBS OCD
JUN 24 2013

ATS-12-1299

Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM077060
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA Inc.		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. Box 50250 Midland, TX 79710		8. Lease Name and Well No. <399767> Red Tank 33 Federal #1H
3b. Phone No. (include area code) 432-685-5717		9. API Well No. 30-0 25-41237
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 330 FSL 330 FEL SESE(P) At proposed prod. zone 330 FNL 700 FEL NENE(A)		10. Field and Pool, or Exploratory <51689> Under Red Tank Delaware, West
14. Distance in miles and direction from nearest town or post office* 23 miles northeast from Loving, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 33 T22S R32E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'	16. No. of acres in lease 1160	12. County or Parish Lea
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1461'	19. Proposed Depth 12792'M 8422'V	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3636.6' GL	22. Approximate date work will start* 08/15/2013	17. Spacing Unit dedicated to this well 160
23. Estimated duration 35 days		20. BLM/BIA Bond No. on file NMB000862 ESB000226

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) David Stewart	Date 3/25/13
Title Regulatory Advisor		david_stewart@oxy.com
Approved by (Signature) /s/ James Stovall	Name (Printed/Typed)	Date JUN 12 2013
Title	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.

Title 18 U.S.C. Section 1
States any false, fictitious

*(Instructions on page

CONDITIONS OF APPROVAL- 24 Hour call in for Spud, Casing, Cement and all other 24 Hour notices to be reported to the Office phone 575-393-6161 ext 102, 120 or 107

****Leave message if no one answers****

EMERGENCY ONLY PHONE 575-370-3186

APPROVAL FOR TWO YEARS

ake to any department or agency of the United

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

JUN 26 2013

OXY USA Inc
Red Tank 33 Fed #1H
APD Data

OPERATOR NAME / NUMBER: OXY USA Inc

16696

LEASE NAME / NUMBER: Red Tank 33 Fed #1H

Federal Lease No:

STATE: NM

COUNTY: Lea

SURFACE LOCATION: 330' FSL & 330' FEL, Sec 33, T22S, R32E

BOTTOM HOLE LOCATION: 330' FNL & 700' FEL, Sec 33, T22S, R32E

APPROX GR ELEV: 3636.6'

EST KB ELEV: 3661.6' (25' KB-GL)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

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

Formation	TVD - RKB	Expected Fluids
T. Rustler	1082	--
T. Salt	1442	--
B. Salt	4672	--
T. Lamar / B. Anhydrite	4722	--
T. Bell Canyon	4782	Form Water
T. Cherry Canyon	5632	Oil/Gas
T. Brushy Canyon	6922	Oil/Gas
Target Brushy Canyon A4 Sand	8466.6	Oil/Gas
T. Bone Spring	8632'	Oil/Gas

There is no indication of the presence of fresh water.

LATERAL GREATEST PROJECTED TD: 12792' MD / 8421.6' TVD

The well will be drilled from south (down-dip) to north (up-dip), with a toe-up geometry with a landing point TVD of 8466.6' TVD RKB and a bottom hole TD at 8421.6' TVD RKB.

OBJECTIVE: Brushy Canyon Sands

3. CASING PROGRAM

Surface Casing ran in a 17.5" hole filled with 8.40 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
17.5	1100	13.375	48	H40	STC	12.715	New	1730	740	1.69	1.79	2.22

1130

Intermediate Casing ran in a 12.25" hole filled with 10.2 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
12.25	4800	9.625	40	J55	LTC	8.835	New	3950	2570	1.32	1.61	1.98

4695

Production Casing ran in a 8.75" hole filled with 9.4 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
8.75	12792	5.500	17	L80	BTC	4.892	New	7738	6285	1.24	1.52	1.78

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software, using maximum anticipated loads.

4. CEMENT PROGRAM:

Surface Interval

13 3/8"

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 800' (125% Excess)	730	800	Premium Plus cement with 4 % Bentonite (Light Weight Additive), 1% Calcium Chloride - Flake (Accelerator) and 0.25 lbs/sk Poly-E-Flake (Lost Circulation additive)	9.12	13.5	1.73	1069
Tail: 800' - 1100' (125% Excess)	380	300	Premium Plus cement with 2% Calcium Chloride - Flake (Accelerator)	6.37	14.8	1.35	1425

Intermediate Interval

9 5/8"

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 4200' (105% Excess)	1330	4200	Halliburton Light Premium Plus Cement with 5% Salt (Salt) and 0.35 % HR-800 (Retarder)	9.84	12.9	1.85	734
Tail: 4200' - 4800' (105% Excess)	310	600	Premium Plus cement	6.34	14.8	1.33	1849

Production Interval

5 1/2"

Interval	Amount t sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 4200' - 7800' (85% Excess)	660	3600	Halliburton Interfill H with 2 lbm/sk Kol-Seal (Lost Circulation Additive), 0.25 lbm/sk D-AIR 5000 (Defoamer) and 0.2 % HR-800 (Retarder)	13.94	11.9	2.46	390 (500psi in 37hrs)
Tail: 7800' - 12792' (50% Excess)	1190	4992	Super H Cement with 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.4 % CFR-3 (Dispersant), 3 lbm/sk Kol-Seal (Lost Circulation Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive), 0.1 % HR-601 (Retarder)	8.09	13.2	1.60	1477

DV Tool will be spaced out at 6800' for contingency. A 2nd stage will be pumped if losses are experienced during 1st stage. If returns are not lost during 1st stage, DV cancellation plug will be run and 2nd stage cancelled. Contingency recipe for 2nd stage as follows:

Interval	Amount t/sk	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 4200' – 6450' (85% Excess)	430	2250	Halliburton Interfill H with 2 lbm/sk Kol-Seal (Lost Circulation Additive), 0.25 lbm/sk D-AIR 5000 (Defoamer) and 0.2 % HR-800 (Retarder)	13.94	11.9	2.46	390 (500psi in 37hrs)
Tail: 6450' – 6800' (50% Excess)	100	350	Premium Plus Cement with 1 % Calcium Chloride - Flake (Accelerator)	6.36	14.8	1.34	1943

The volumes indicated above may be revised depending on caliper measurement.

5. DIRECTIONAL PLAN

Please see attached directional plan.

6. PRESSURE CONTROL EQUIPMENT

Surface: 0' – 1100' None.

Intermediate and Production: 1100' – 12792'M / 8421.6'V

Intermediate and Production hole will be drilled with a 13-5/8" 10M three ram stack with a 5M annular preventer and a 5M Choke Manifold

- See CCA*
- All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the surface casing shoe. A multibowl wellhead system will be used in this well therefore the BOPE test will cover the test requirements for the Intermediate and Production sections
 - The Surface and Intermediate casings strings will be tested to 70% of their burst rating for 30 minutes. This will also test the seals of the lock down pins that hold the pack-off in place in the multibowl wellhead system
 - Pipe rams will be function tested every 24 hours and blind rams will be tested each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP.
 - The BOPE test will be repeated after 21 days of the original test, on the first trip, if drilling the intermediate or production section takes more time than planned
 - Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5000 psi working pressure rating and tested to 5000 psi
 - The Operator also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose manufactured by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose with a 10,000 psi working pressure. It has been tested to 15,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps (certifications attached)
 - BOP & Choke manifold diagrams attached

7. MUD PROGRAM:

Depth	Mud Wt Ppg	Vis Sec	Fluid Loss	Type System
0 – 1100' <i>1130</i>	8.5 – 9.0	28 – 38	NC	Fresh Water / Spud Mud
1100' – 4800' <i>4695</i>	9.8 – 10.2	28 – 32	NC	Fresh Water / NaCl Brine
4800' – 7700'	8.8 – 9.5	28 – 34	NC	Cut Brine / Sweeps
7700' – 12792'	9.2 – 9.6	32 – 50	< 18	Duo Vis / Salt Gel / Starch / PAC

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- a. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- b. 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
- b. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.466 psi/ft**. Maximum anticipated bottom hole pressure is **3925 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.

11. WIRELINE LOGGING / MUD LOGGING / LWD *See COA*

- a. Wireline Logging: Triple Combo, from intermediate casing shoe to LP.
- b. Mud loggers to be rigged up from surface casing shoe to TD.
- c. Acquire GR while drilling, from intermediate casing shoe to TD.

COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Anar Khalilov	Drilling Engineer	(713)985-6959	(832) 205-6365
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832) 528-3268
Roger Allen	Drilling Superintendent	(713)215-7617	(281) 682-3919
Douglas Chester	Drilling Manager	(713)366-5194	(713) 918-9124



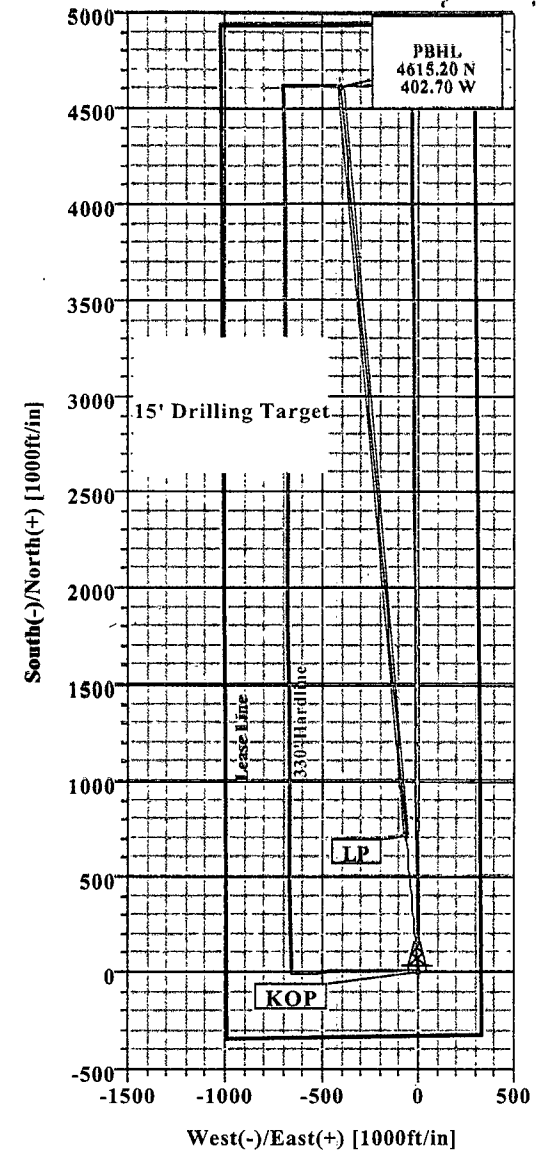
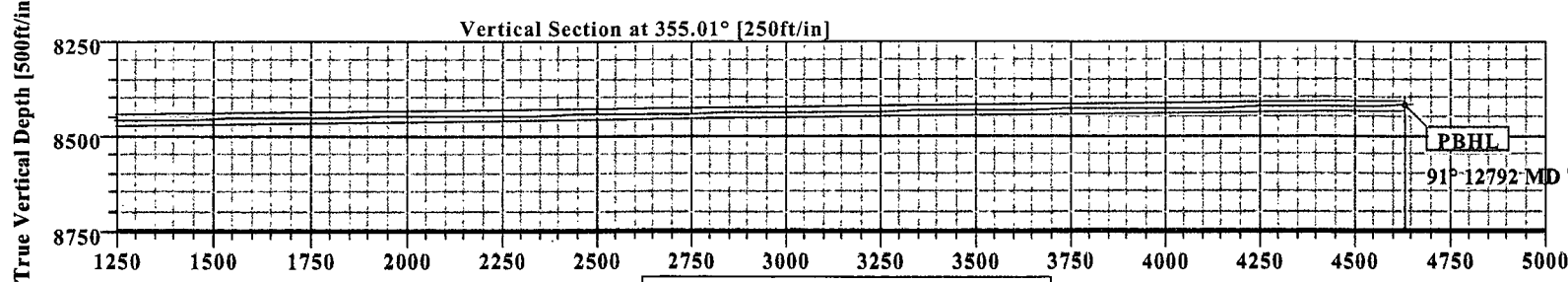
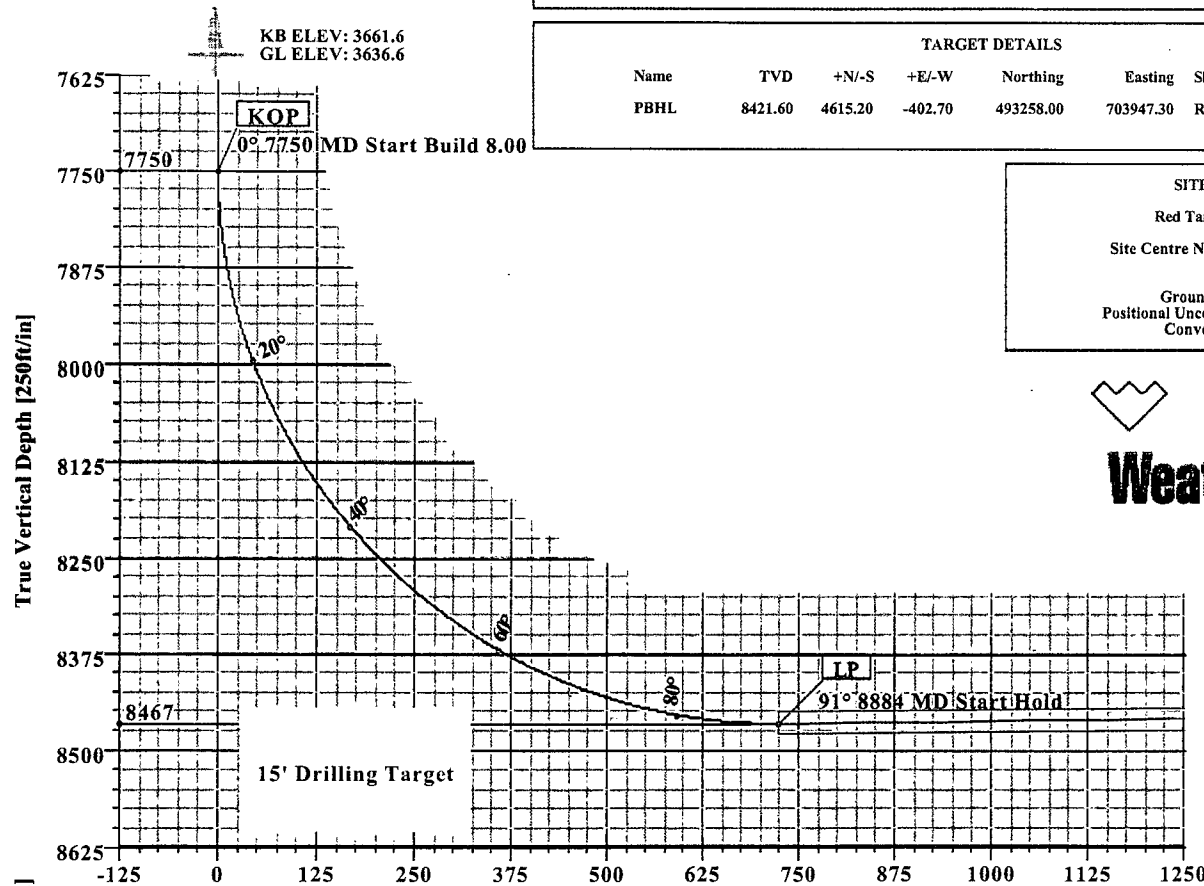
Red Tank 33 Fed #1H Lea Co, New Mexico

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	355.01	0.00	0.00	0.00	0.00	0.00	0.00
2	7750.45	0.00	355.01	7750.45	0.00	0.00	0.00	0.00	0.00
3	8883.70	90.66	355.01	8466.60	721.70	-62.97	8.00	355.01	724.44
4	12792.25	90.66	355.01	8421.60	4615.20	-402.70	0.00	0.00	4632.74 PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Red Tank 33 Fed #1H	0.00	0.00	488642.80	704350.00	32°20'29.974N	103°40'18.011W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8421.60	4615.20	-402.70	493258.00	703947.30	Rectangle (3908x30)

SITE DETAILS						
Red Tank 33 Fed #1H						
Site Centre Northing: 488642.80						
Easting: 704350.00						
Ground Level: 3636.60						
Positional Uncertainty: 0.00						
Convergence: 0.35						



LEGEND	
1	Plan #1



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

DP-2

Company: Occidental Permian Ltd.	Date: 2/14/2013	Time: 10:14:16	Page: 1
Field: Lea Co. New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Red Tank 33 Fed #1H, Grid North	
Site: Red Tank 33 Fed #1H	Vertical (TVD) Reference:	SITE 3661.6	
Well: Red Tank 33 Fed #1H	Section (VS) Reference:	Well: (0.00N, 0.00E, 355.01Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #1	Date Composed: 2/14/2013
Principal: Yes	Version: 1
	Tied-to: From Surface

Site:	Red Tank 33 Fed #1H								
Site Position:		Northing:	488642.80	ft	Latitude:	32	20	29.974	N
From: Map		Easting:	704350.00	ft	Longitude:	103	40	18.011	W
Position Uncertainty:	0.00	ft			North Reference:			Grid	
Ground Level:	3636.60	ft			Grid Convergence:			0.35	deg

Well: Red Tank 33 Fed #1H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 20 29.974 N
+E/-W 0.00 ft	Longitude: 103 40 18.011 W
Position Uncertainty: 0.00 ft	

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3661.60 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 10/1/2013		Above System Datum: Mean Sea Level	
Field Strength: 48472 nT		Declination: 7.36 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.22 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	355.01

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	355.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7750.45	0.00	355.01	7750.45	0.00	0.00	0.00	0.00	0.00	0.00	
8883.70	90.66	355.01	8466.60	721.70	-62.97	8.00	8.00	0.00	355.01	
12792.25	90.66	355.01	8421.60	4615.20	-402.70	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7700.00	0.00	355.01	7700.00	0.00	0.00	0.00	0.00	488642.80	704350.00	
7750.45	0.00	355.01	7750.45	0.00	0.00	0.00	0.00	488642.80	704350.00	KOP
7800.00	3.96	355.01	7799.96	1.71	-0.15	1.71	8.00	488644.51	704349.85	
7850.00	7.96	355.01	7849.68	6.88	-0.60	6.91	8.00	488649.68	704349.40	
7900.00	11.96	355.01	7898.92	15.50	-1.35	15.56	8.00	488658.30	704348.65	
7950.00	15.96	355.01	7947.43	27.52	-2.40	27.62	8.00	488670.32	704347.60	
8000.00	19.96	355.01	7994.98	42.87	-3.74	43.04	8.00	488685.67	704346.26	
8050.00	23.96	355.01	8041.34	61.50	-5.37	61.73	8.00	488704.30	704344.63	
8100.00	27.96	355.01	8086.29	83.30	-7.27	83.62	8.00	488726.10	704342.73	
8150.00	31.96	355.01	8129.60	108.18	-9.44	108.59	8.00	488750.98	704340.56	
8200.00	35.96	355.01	8171.06	136.00	-11.87	136.52	8.00	488778.80	704338.13	
8250.00	39.96	355.01	8210.47	166.63	-14.54	167.27	8.00	488809.43	704335.46	
8300.00	43.96	355.01	8247.64	199.93	-17.45	200.69	8.00	488842.73	704332.55	
8350.00	47.96	355.01	8282.39	235.74	-20.57	236.63	8.00	488878.54	704329.43	
8400.00	51.96	355.01	8314.54	273.87	-23.90	274.91	8.00	488916.67	704326.10	
8450.00	55.96	355.01	8343.95	314.14	-27.41	315.33	8.00	488956.94	704322.59	
8500.00	59.96	355.01	8370.47	356.35	-31.09	357.71	8.00	488999.15	704318.91	
8550.00	63.96	355.01	8393.97	400.31	-34.93	401.83	8.00	489043.11	704315.07	
8600.00	67.96	355.01	8414.33	445.79	-38.90	447.49	8.00	489088.59	704311.10	
8650.00	71.96	355.01	8431.46	492.58	-42.98	494.45	8.00	489135.38	704307.02	
8700.00	75.96	355.01	8445.27	540.44	-47.16	542.49	8.00	489183.24	704302.84	
8750.00	79.96	355.01	8455.69	589.15	-51.41	591.39	8.00	489231.95	704298.59	
8800.00	83.96	355.01	8462.68	638.46	-55.71	640.88	8.00	489281.26	704294.29	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

DP-4

Company: Occidental Permian Ltd.	Date: 2/14/2013	Time: 10:14:16	Page: 3
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Red Tank 33 Fed #1H, Grid North	
Site: Red Tank 33 Fed #1H	Vertical (TVD) Reference:	SITE 3661.6	
Well: Red Tank 33 Fed #1H	Section (VS) Reference:	Well (0.00N,0.00E,355.01Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7750.45	7750.45	KOP
8883.70	8466.60	LP
12792.24	8421.60	PBHL

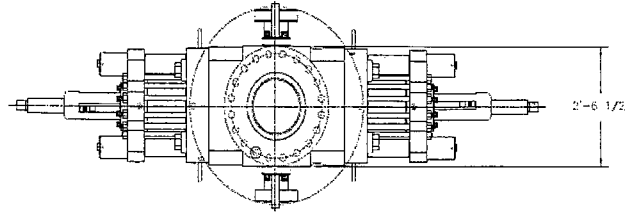
Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Field: Lea Co, New Mexico (Nad 27)

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010



- LEGEND
- ① - 1 1/16" - 10M FLANGED END GATE VALVE
 - ② - 1 1/16" - 10M FLANGED END GATE VALVE WITH DOUBLE ACTING HYDRAULIC ACTUATOR
 - ③ - 1 1/16" - 10M FLANGED END GATE VALVE
 - ④ - 1 1/16" - 10M FLANGED END CHECK VALVE
 - ⑤ - DOUBLE STICKED RAMPIER

SEE LIFT LUG DETAIL

CHAFFER BOLTED-COVER SPHERICAL
ANNULAR PREVENTER (API 16A
MONOGRAMMED, 13 5/8"-10M WP,
10M BOTTOM FLANGE & 5M
STUCCO TOP (WEIGHT = 14,300
LBS WITH CHAFFER AND 194 WCT
OIL RESISTANT ACRYLONITRILE
ELEMENTS)

CAMERON 10M DOUBLE
RAM-TYPE PREVENTER (API 16A
MONOGRAMMED, 13 5/8"-10M
WP, WITH 5" CAMERON PIPE
RAMS (CAMERON FRONT PACKERS
& TOP SEALS) IN TOP CAVITY
AND CAMERON 10S SHEARING
BUNG RAMS IN BOTTOM CAVITY.
BOTTOM FLANGE & STUCCO
TOP (WEIGHT = 21,100 LBS
WITH RAMS)

13 5/8"-10M WP
CAMERON DRILLING SPOOL
(API 16A MONOGRAMMED)
STUCCO TOP & FLANGED BOTTOM
WITH 4 1 1/16"-10M WP FLANGED OUTLETS
(WEIGHT APPROXIMATELY 6,000 LBS)

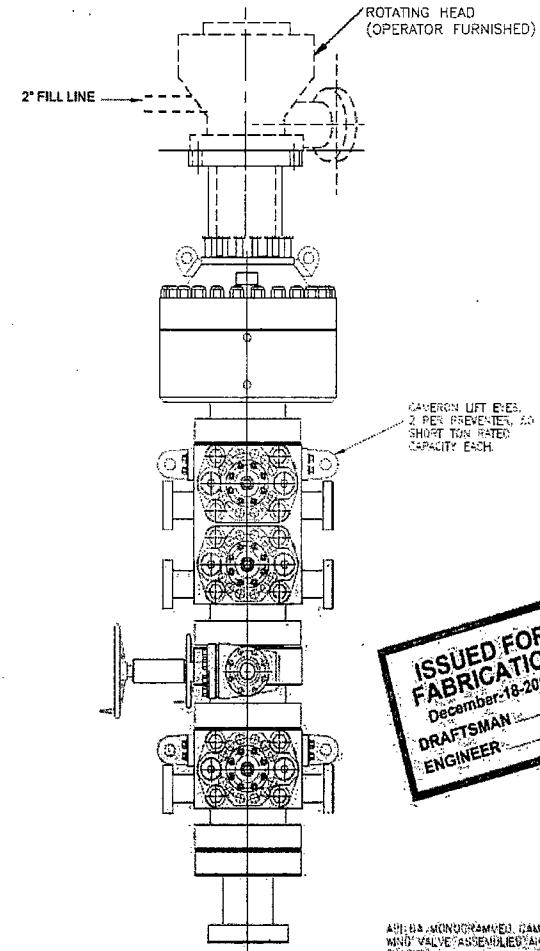
CAMERON 10M SINGLE RAM-TYPE
PREVENTER (API 16A
MONOGRAMMED, 13 5/8"-10M WP,
WITH 5" CAMERON PIPE RAMS
(CAMERON FRONT PACKERS & TOP
SEALS) BOTTOM FLANGE &
STUCCO TOP
WEIGHT = 10,000 LBS

HAP FURNISHED
13 5/8"-10M x 13 5/8"-6M
ADAPTER SPOOL 2'-0" LONG

13 5/8 - 10M BOP STACK WITH 13 5/8 - 5M ANNULAR

PROPRIETARY

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



ISSUED FOR
FABRICATION
December 18-2007
DRAFTSMAN
ENGINEER

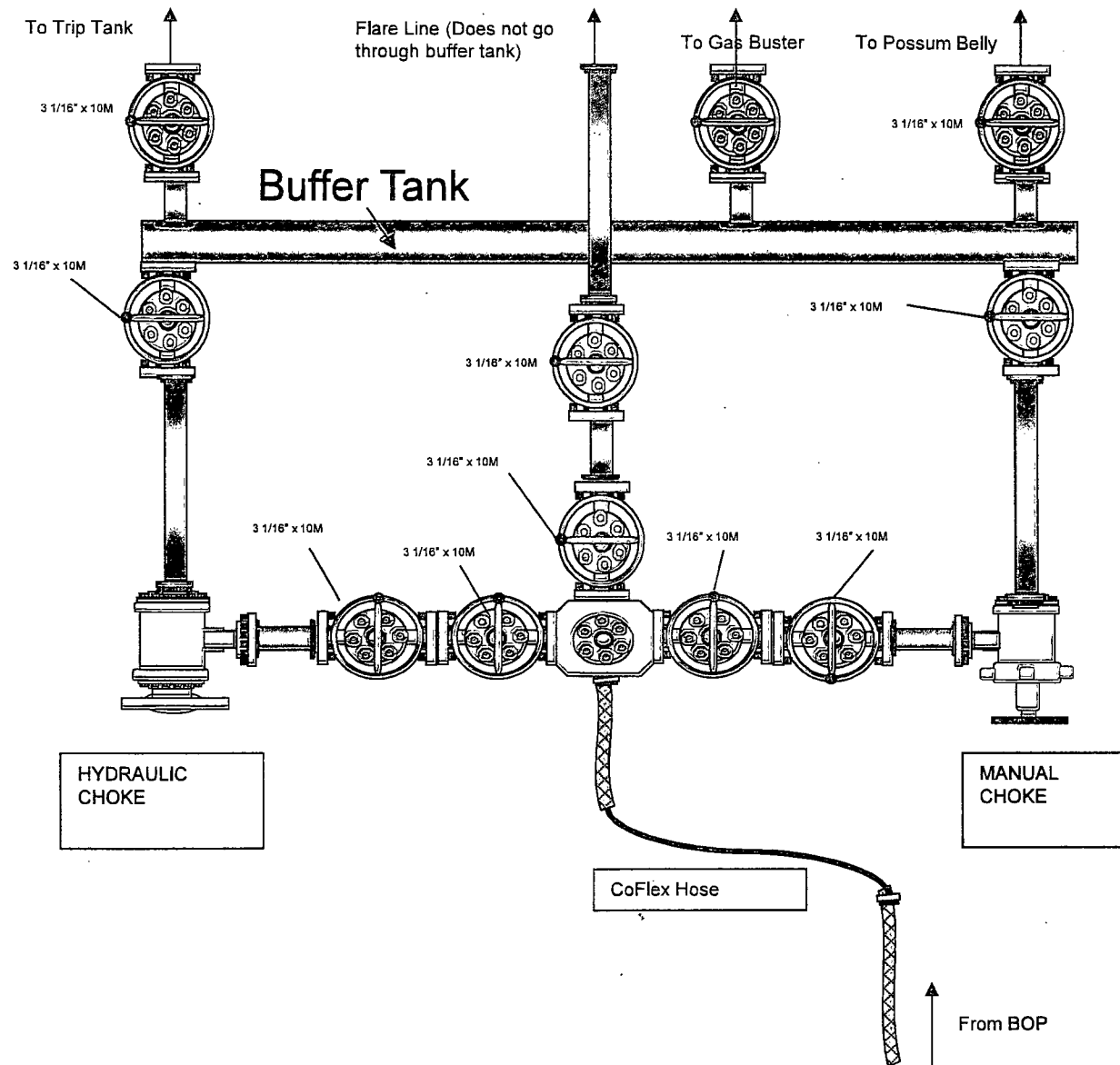
API 16A MONOGRAMMED CAMERON CHOKER AND KILL
AND VALVE ASSEMBLIES ARE NOT SHOWN FOR
CLARITY
WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS
OR OTHER CONNECTING FITTINGS

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

ENGINEERING		DATE	TITLE		
			13 5/8"-10M BOP 3 RAM STACK 'FLEXRIG'		
12/18/07	ADDED CHOKER AND	JAV	CUSTOMER: HOB PROJECT: 'FLEXRIG'		
4-10-07	ADAPTER SPOOL ADDED	JAV			
12-24-07	8" ADDED TO SPACER/ADAPTER SPOOL	JAV			
09-07-07	ADDED ADAPTER SPOOL	JAV			
06-15-02	CORRECTED BOP STACK	JAV			
REV	DATE	DESCRIPTION	BY	ISSUED: 09/21/07 SCALE: 3/4"=1' SHEET: 1 OF 3	REV: 09/21/07 E

BOP

FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)

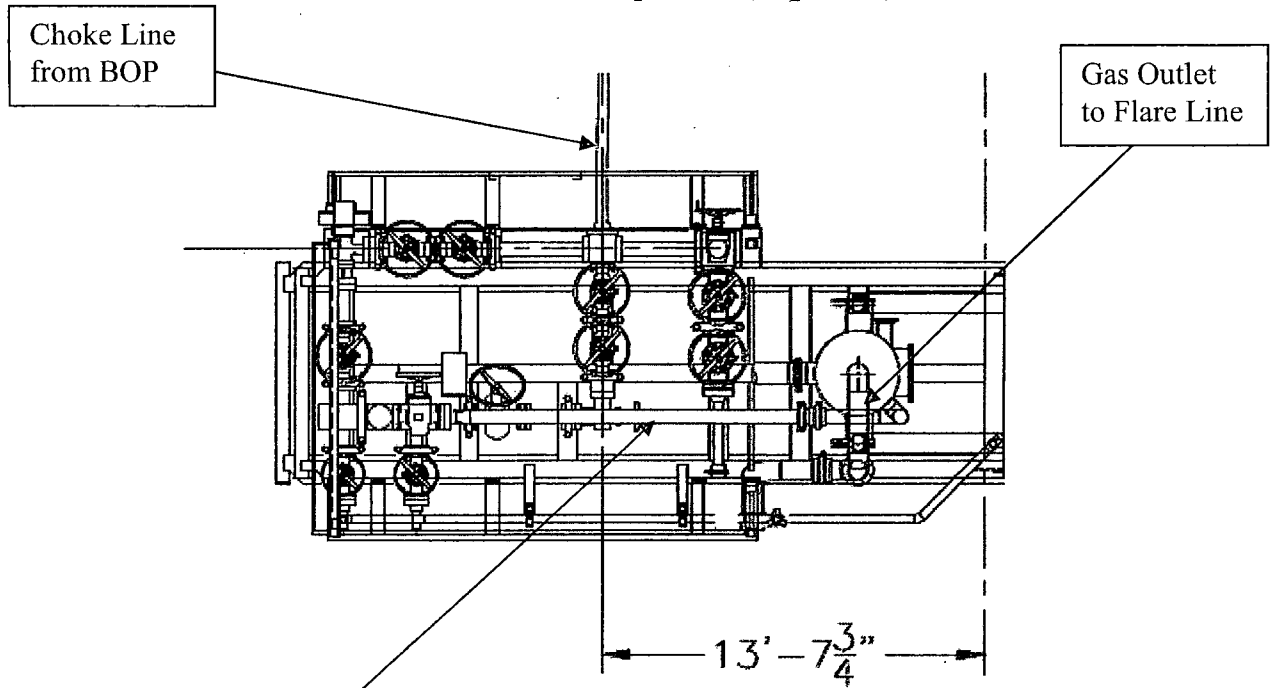


KILL LINE SCHEMATIC

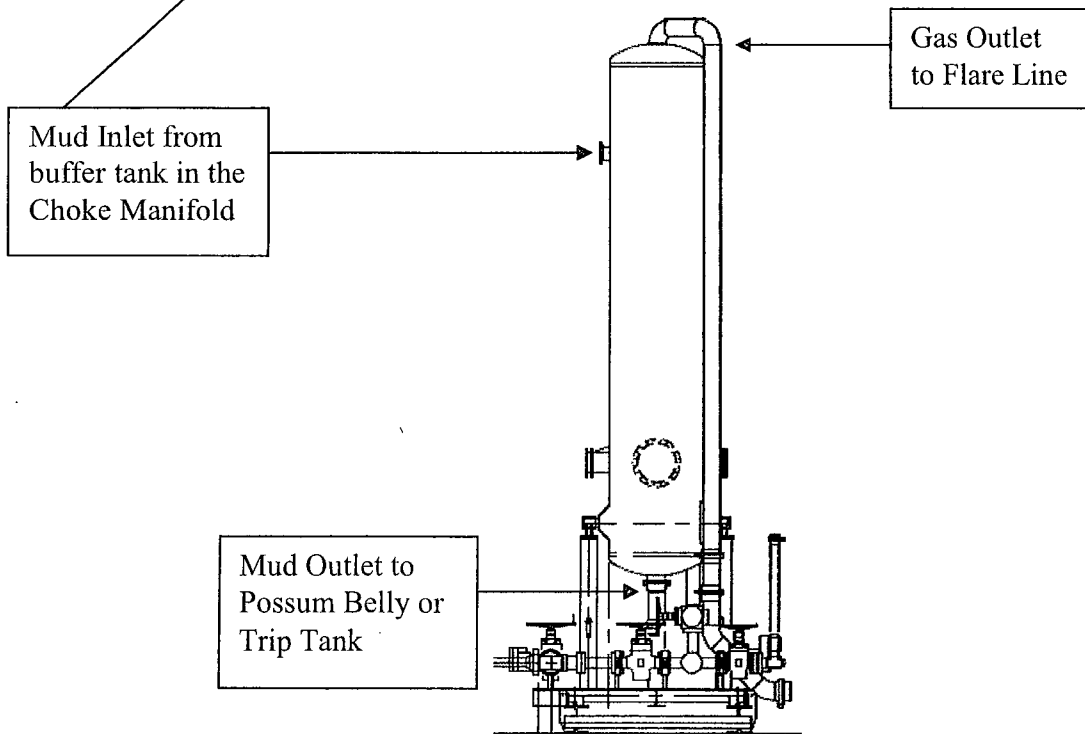


CM-2

Choke Manifold – Gas Separator (Top View)

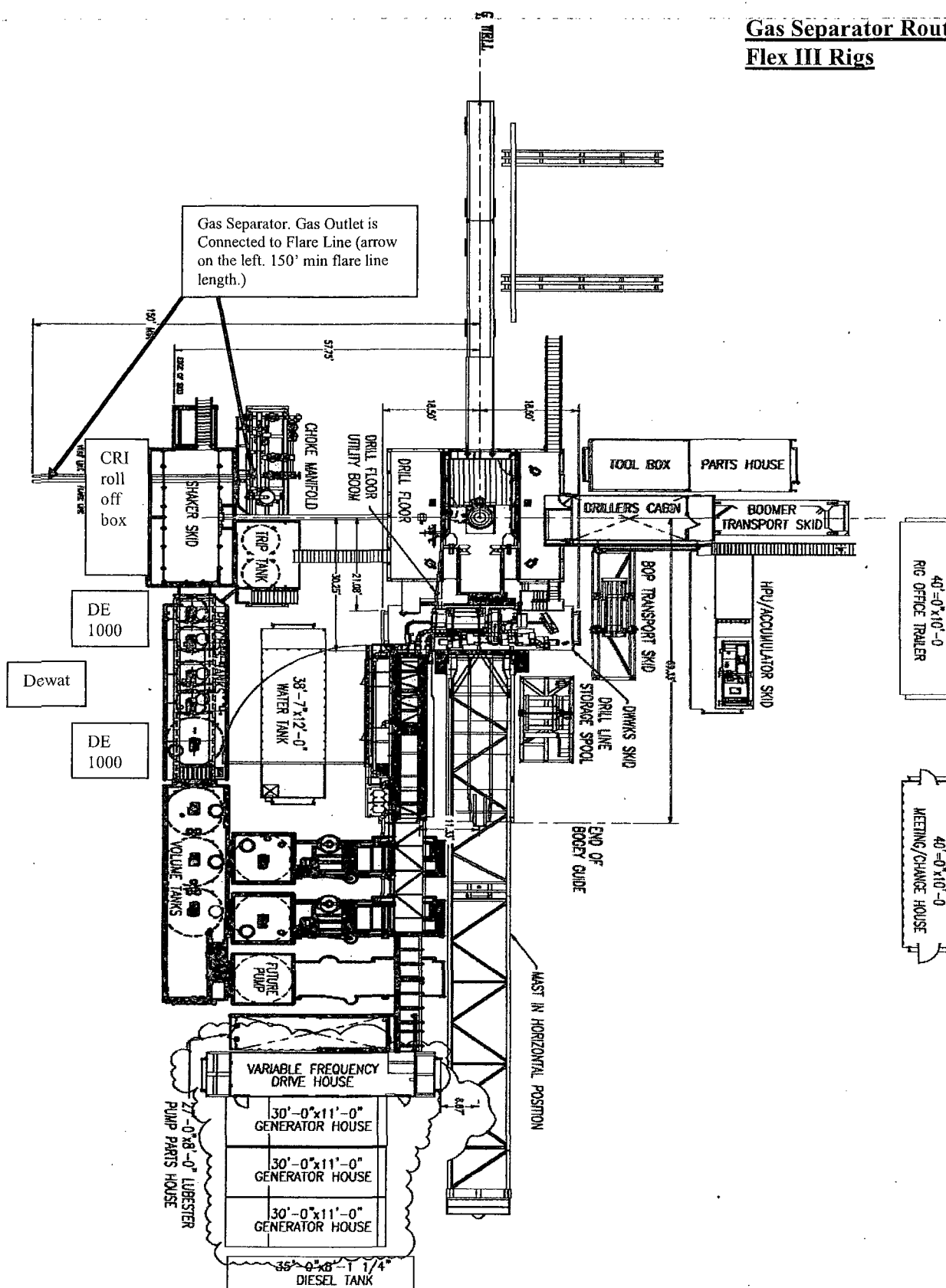


Choke Manifold – Gas Separator (Side View)



Gas Separator Routing

Flex III Rigs





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 : 412638
Date of Shipment : April. 2008
Customer : Phoenix Beattie Co.
Customer P.o. : 002491
Referenced Standards
/ Codes / Specifications : API Spec 16 C
Serial No.: 52754,52755,52776,52777,52778,52782

STATEMENT OF CONFORMITY

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

COUNTRY OF ORIGIN HUNGARY/EU

Signed :

A handwritten signature in black ink, appearing to read "János Gábor", written over a dotted line.

ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(3)

Date: 04. April. 2008

Position: Q.C. Manager



Coflex Hose Certification

05/23/08

FFW

FH-4

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: mail@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address 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 16C C&K 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-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm 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

Continued...

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



Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 746	
PURCHASER: Phoenix Beattie Co.				P.O. N°: 002491	
CONTITECH ORDER N°: 412638		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 52777		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		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 N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	917 913		AISI 4130	T7998A	
			AISI 4130	26984	
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			ContiTech Rubber Industrial Kit. Quality Control Dept.  (1) 		



Phoenix Beattie Corp

11535 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: sa11@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address 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
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 advised within 5 days.
Returns may be subject to a handling charge.

Page: 1/1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Continental Rubber
Industrial Kft.
Quality Control Dept.



New Mexico Drilling Daily Circulating System Inspection For Closed Loop Systems

Wellname:		Permit #:		Rig Move Date:	
County:				Rig Demobe Date:	

Inspection Date	Time	By Whom	Any drips or leaks from steel tanks, lines or pumps not contained?* Explain.	Has any hazardous waste been disposed of in system?

All circulating systems to be inspected DAILY during drilling operations.

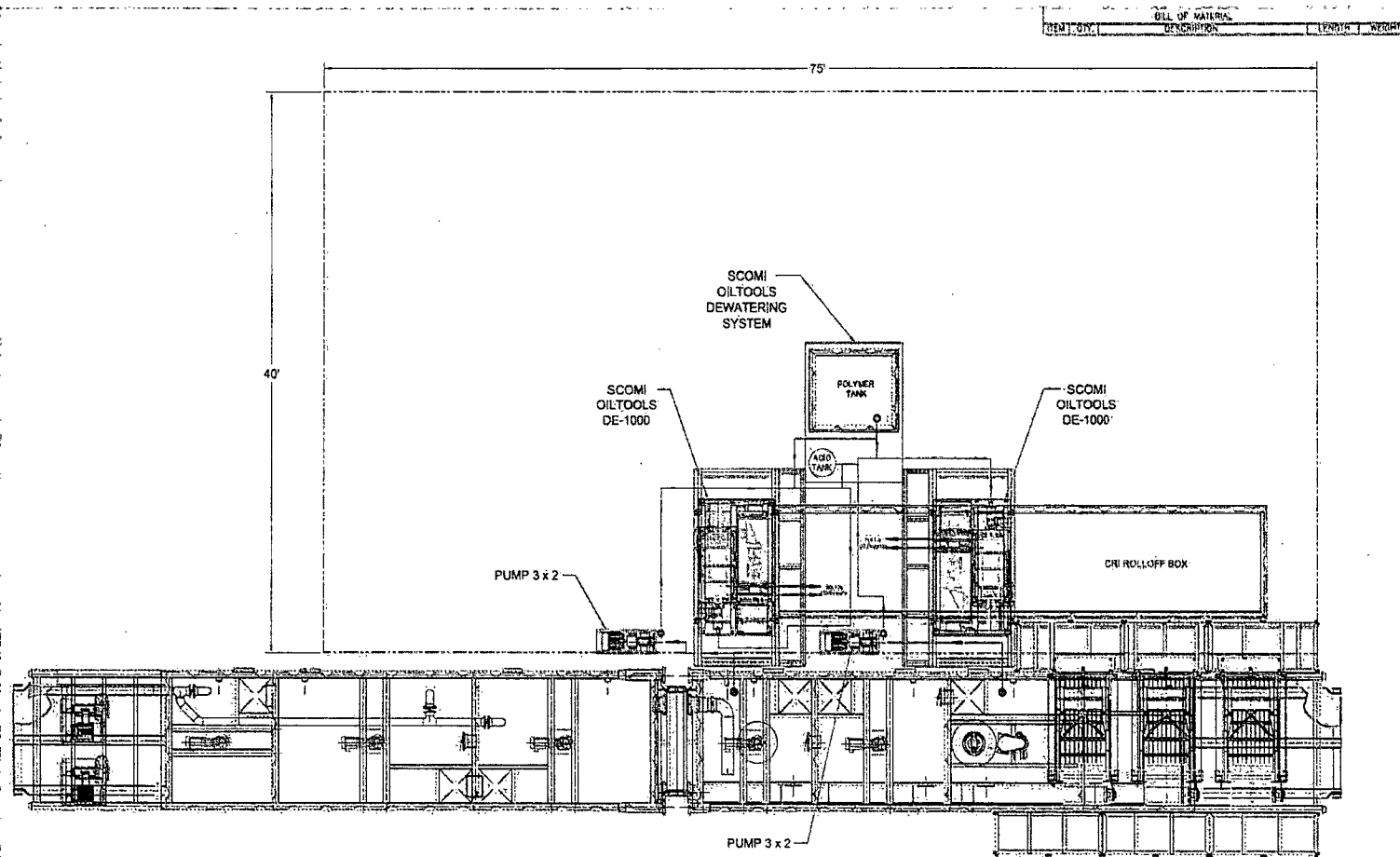
*Any leak of the steel tanks, lines or pumps shall be reported to the NMOCD and repaired within 48 hours.

Technical drawing of a mobile unit layout, showing various equipment and dimensions. The drawing includes a large rectangular area with dimensions 75' (width) and 40' (height). The layout includes the following components:

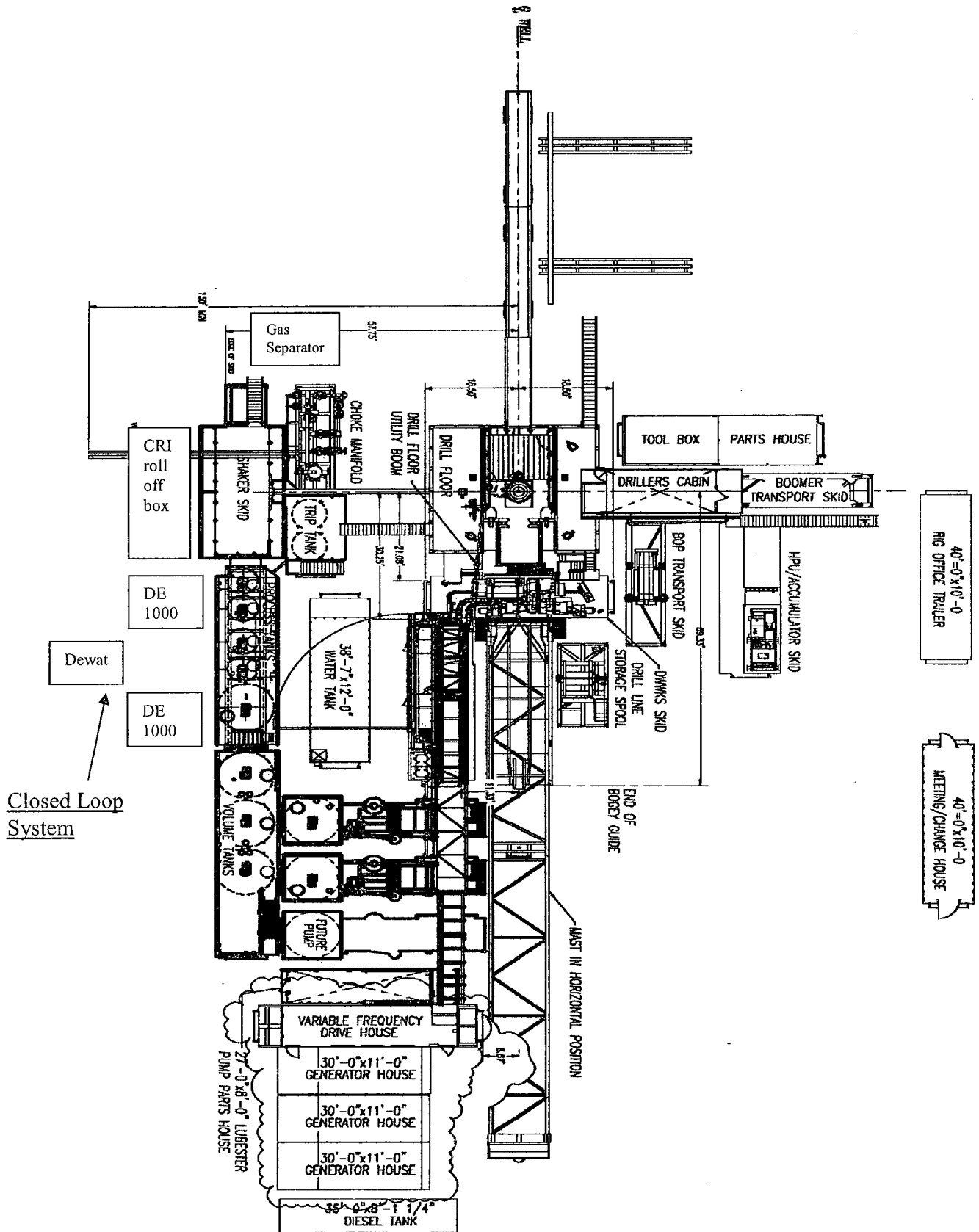
- SCOM OILTOOLS DEWATERING SYSTEM
- POLYMER TANK
- ACID TANK
- SCOM OILTOOLS DE-1000
- SCOM OILTOOLS DE-1000
- GRI ROLLOFF BOX
- ROLL OFF TANKS
- ROLL OFF TANKS

The drawing also shows a detailed view of the unit's structure, including various tanks, pipes, and structural elements.

[illegible]

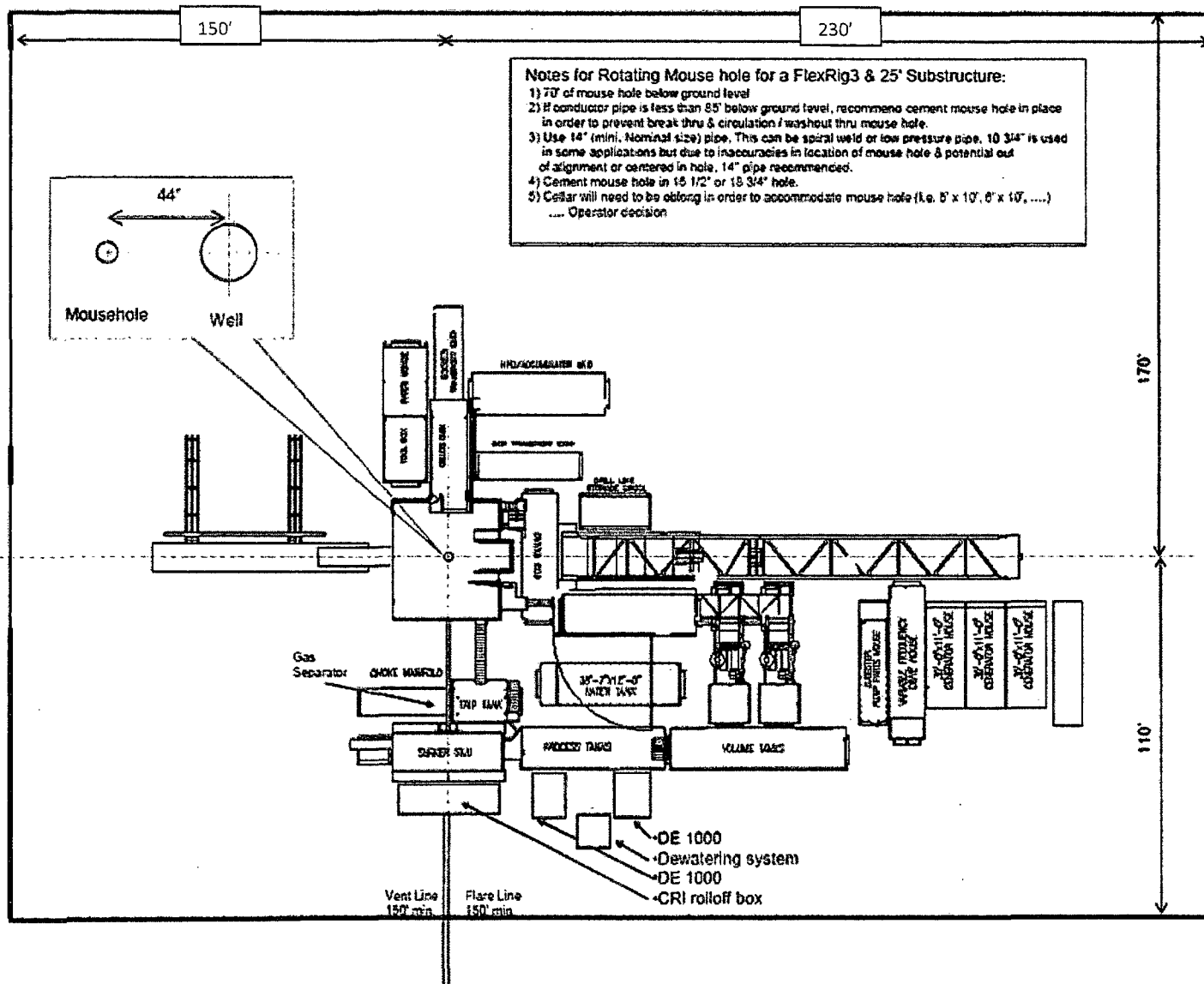


										1. ALL STRUCTURAL MATERIAL SHALL BE A572 - A572. 2. ALL PIPES SHALL BE 40 WATSON, SA 100 D-18. 3. ALL FLANGES SHALL BE SCRF, 150# & NATURAL SA 100. 4. ALL FITTINGS 80 - 40 WATSON SHALL BE SA 100 D-18. 5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API-650.										NOTE: CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&P - FLEX RIGS / PG 2 OF 2										Scomi 801 N. 2nd Street, Suite 100, Dallas, TX 75201 PHONE: (214) 398-0011 FAX: (214) 398-0040									
The designer, manufacturer and distributor on this drawing or copies are not to be responsible or held liable for any errors, omissions, or misstatements, or for any consequences or damages resulting from the use of this drawing or copies, or for any consequences or damages resulting from the use of this drawing or copies, or for any consequences or damages resulting from the use of this drawing or copies.																																							
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OXY FLEX III PAD (SCOMI Closed Loop System)

Level Area-No Caliche-For Offices and Living Quarters



CLE2-7

▲ H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

● Briefing Areas. At least two briefing areas will be placed, 90 deg off.

■ Wind direction indicators. Visible from rig floor and from the mud pits area.

A gas buster is connected to both the choke manifold and flowline outlets.

Rig Layout

Secondary Briefing Area

Exit to road. Caution sign placed here.

Primary Briefing Area

