

OCD Hobbs
HOBBS OCD

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 05 2013

APPLICATION FOR PERMIT TO DRILL OR REENTER

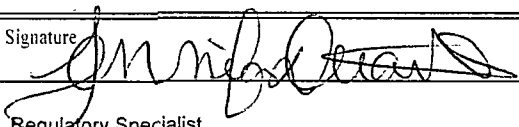
RECEIVED

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM055149; NMLC0029489B	
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 4294 HOUSTON, TX 77210		8. Lease Name and Well No. CORBIN FEDERAL COM #1H	
3b. Phone No. (include area code) 713-513-6640		9. API Well No. 30-025-41314	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 530' FSL & 1750' FWL At proposed prod. zone 970' FSL & 2290' FWL		10. Field and Pool, or Exploratory CORBIN; WOLFCAMP, SOUTH	
14. Distance in miles and direction from nearest town or post office* 37 MILES SOUTHEAST OF LOVINGTON, NM		11. Sec., T. R. M. or Blk. and Survey or Area SHL: N, SEC 9; T18S, R33E BHL: N, SEC 4; T18S, R33E	
15. Distance from proposed* 530' location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)		12. County or Parish LEA	
16. No. of acres in lease 961.19		13. State NM	
17. Spacing Unit dedicated to this well 200			
18. Distance from proposed location* 315' to nearest well, drilling, completed, applied for, on this lease, ft.		20. BLM/BIA Bond No. on file ESB000226 / NMB000862	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3927' GL		22. Approximate date work will start* 01/20/2014	
		23. Estimated duration 20 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:

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

25. Signature 	Name (Printed/Typed) Jennifer Duarte (jennifer_duarte@oxy.com)	Date 04/22/2013
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Approved by (Signature) <i>/s/George MacDonell</i>	Name (Printed/Typed) George MacDonell	Date AUG 1 2013
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)

Capitan Controlled Water Basin

Ka
08/08/13

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

CONDITION OF APPROVAL: Approval for Drilling ONLY.
CANNOT produce without the OCD Santa Fe approval for
Non-Standard Location.

AUG 13 2013

OXY USA Inc
Corbin Federal Com #1H
APD Data

OPERATOR NAME / NUMBER: OXY USA Inc

LEASE NAME / NUMBER: Corbin Federal Com #1H

STATE: NM **COUNTY:** Lea

SURFACE LOCATION: 530' FSL & 1750' FWL, Sec 9, T18S, R33E

BOTTOM HOLE LOCATION: 970' FSL & 2290' FWL, Sec. 4, T18S, R33E

APPROX GR ELEV: 3927.0'

EST KB ELEV: 3951' (24' 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	Expected Fluids
T. Rustler	1507	--
T. Salt	1627	--
T. Tansill (B. Salt)	2882	--
T. Yates	3052	Oil/Gas
T. Seven Rivers	3492	Oil/Gas
T. Queen	4262	Oil/Gas
T. Cherry Canyon	5312	Oil/Gas
T. Brushy Canyon	5897	Oil/Gas
T. 1 st Bone Spring	6827	Oil/Gas
T. 2 nd Bone Spring	8742	Oil/Gas
Target 2 nd Bone Spring Sand	9252	Oil/Gas

Fresh water may be present above the Rustler formation. Surface casing will be set below the top of the Rustler, which will cover potential fresh water sources.

LATERAL GREATEST PROJECTED TD: 14683' MD / 9252' TVD **OBJECTIVE:** 2nd Bone Spring

3. CASING PROGRAM

Surface Casing ran in a 16" 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
16	1560	13.375	48	H40	STC	12.715	New	1730	740	1.71	1.22	1.97

SEA Intermediate Casing ran in a 12.25" hole filled with 10 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	3000	9.625	36	J55	LTC	8.75	New	3520	2020	1.21	2.01	2.18

2950'

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	14683	5.500	17	L80	BTC	4.778	New	7740	6290	1.25	1.49	1.60

Note: All Casing is in new condition

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement + 500 psi)

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

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 1248' (165% Excess)	1380	1248	Premium Plus cement with 4 % Bentonite, 1% Calcium Chloride - Flake and 0.125 lbs/sk Poly-E-Flake	9.14	13.5	1.73	1006 psi
Tail: 1248 - 1560' (165% Excess)	460	312	Premium Plus cement with 2% Calcium Chloride - Flake	6.39	14.8	1.35	1326 psi

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 2364' (125% Excess)	790	2364	Light Premium Plus Cement, with 5% Salt	9.83	12.9	1.85	853 psi
Tail: 2364' - 3000' (125% Excess)	350	636	Premium Plus cement	6.34	14.8	1.33	1571 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 2500' - 8500' (80% Excess)	930	6000	Premium Cement, 14.8 lb/sk Silicalite 50/50 Blend, 15 lb/sk Scotchlite HGS-6000, 0.5 lb/sk CFR-3, 0.15 lb/sk WG-17, 1 lb/sk Cal-Seal 60, 1.5 lb/sk Salt, 2% Calcium Chloride-Flake	12.45	10.6	2.69	646 psi
Tail: 8500' - 14683' (40% Excess)	1350	6110	Super H Cement, 3 lbm/sk Salt, 0.4% CFR 3, 0.5% Halad 344, 0.2% HR-800	8.40	13.2	1.64	1447 psi

Cement Additives: Bentonite (Lightweight Additive), Calcium Chloride (accelerator), Halad-344 (low fluid loss control), HR-800 (retarder), Salt (salt), Silicalite (Additive Material), CFR-3 (Dispersant), Schotchlite HGS 6000 (Light Weight Additive), WG-17 (Gelling Agent), Cal-Seal 60 (Accelerator)

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0' – 1560' None.

Intermediate and Production: 3000' MD/TVD – 14683' MD / 9252' TVD. 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 COA*
- 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 within 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.
 - See COA* 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:

See COA

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 1560' <i>2950'</i>	8.5 – 9.0	28 – 38	NC	Fresh Water / Spud Mud
1560' – 3000'	9.8 – 10.2	28 – 32	NC	Fresh Water / NaCl Brine
3000' – 8500'	8.8 – 9.2	28 – 34	NC	Cut Brine / Sweeps
8500' – 14683'	9.2 – 9.4	32 – 50	< 10	Salt Gel / Starch

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.

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.

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

9. POTENTIAL HAZARDS:

- See COA*
- 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 0.46 psi/ft. Maximum anticipated bottom hole pressure is between 4200 and 4300 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.

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.

10. WIRELINE LOGGING / MUD LOGGING / LWD

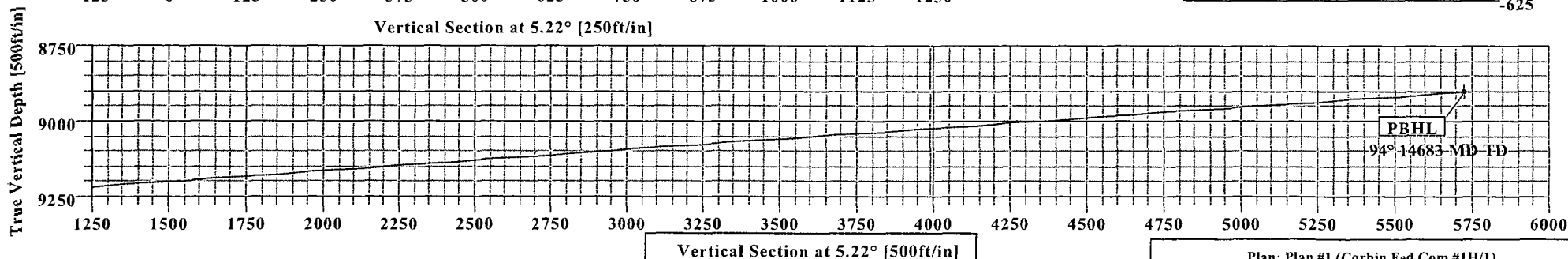
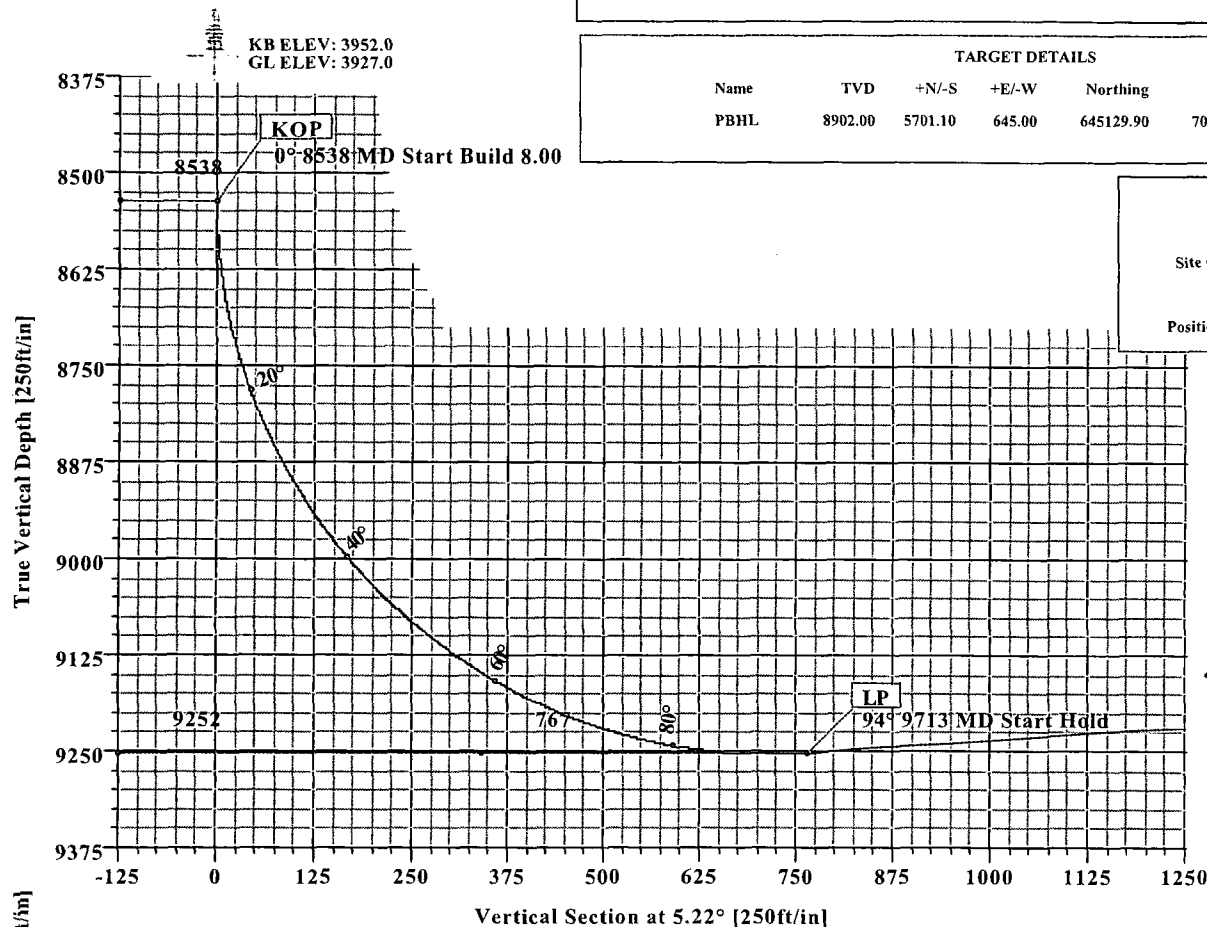
- d. Run wireline – Triple Combo
 - GR, Den, Neu, Res, Sonic from KOP to base of intermediate casing.
 - GR, Neutron from TD to surface
- e. Mud loggers to be rigged up from base of intermediate casing to TD
- f. Acquire MWD/GR while drilling, from KOP to TD

COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Carlos Mercado	Drilling Engineer	(713)366-5418	(281) 455-3481
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832)528-3268
Roger Allen	Drilling Superintendent	(713)215-7617	(281)682-3919
Oscar Quintero	Drilling Manager	(713)985-6343	(713)689-4946



Corbin Fed Com #1H Lea Co, New Mexico



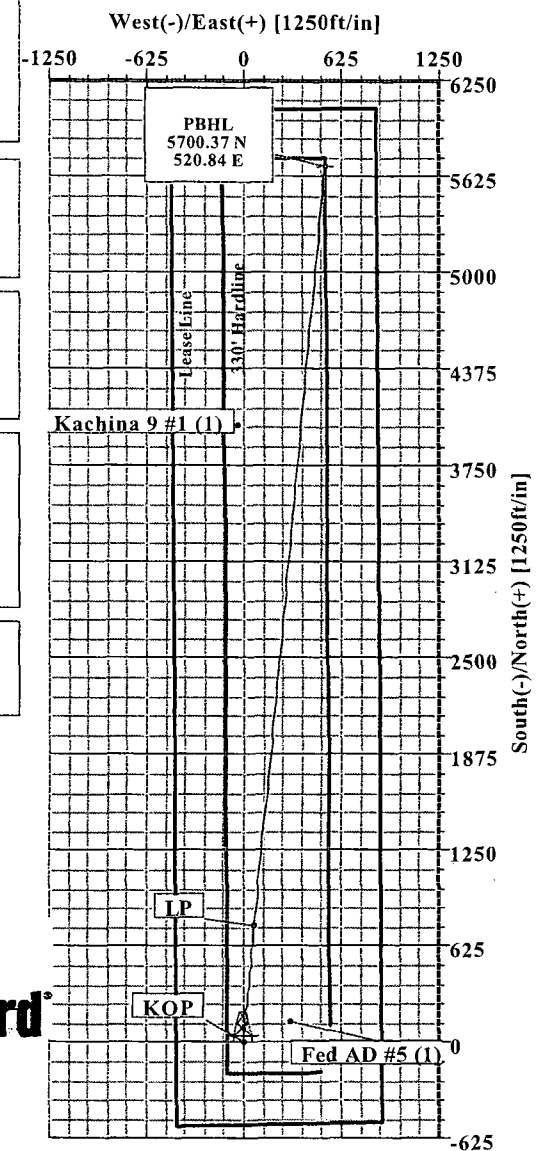
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	5.22	0.00	0.00	0.00	0.00	0.00	0.00	
2	8537.58	0.00	5.22	8537.58	0.00	0.00	0.00	0.00	0.00	
3	9713.06	94.04	5.22	9252.00	763.46	69.76	8.00	5.22	766.64	
4	14682.88	94.04	5.22	8902.00	5700.37	520.84	0.00	0.00	5724.11	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Corbin Fed Com #1H	0.00	0.00	639428.80	703782.80	32°45'22.067N	103°40'13.682W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8902.00	5701.10	645.00	645129.90	704427.80	Point

SITE DETAILS	
Corbin Fed Com #1H	
Site Centre Northing:	639428.80
Easting:	703782.80
Ground Level:	3927.00
Positional Uncertainty:	0.00
Convergence:	0.36

LEGEND	
	Fed AD #5 (1)
	Kachina 9 #1 (1)
	1
	Plan #1



OXY CORBIN FED COM #1H P1 SVY

Weatherford International Ltd.
WFT Plan Report - X & Y's

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Corbin Fed Com #1H
Well: Corbin Fed Com #1H
Wellpath: 1

Date: 1/21/2013 Time: 10:16:52
Co-ordinate(NE) Reference: Well: Corbin Fed Com #1H
Vertical (TVD) Reference: SITE 3952.0
Section (VS) Reference: Well (0.00N,0.00E,5.22Azi)
Survey Calculation Method: Minimum Curvature

Plan: Plan #1

Date Composed: 1/21/2013
Version: 1
Tied-to: From Surface

Principal: Yes

Site: Corbin Fed Com #1H

Site Position:		Northing:	639428.80 ft	Latitude:	32 45	22.067 N
From: Map		Easting:	703782.80 ft	Longitude:	103 40	13.682 W
Position Uncertainty:	0.00 ft			North Reference:		Grid
Ground Level:	3927.00 ft			Grid Convergence:		0.36 deg

Well: Corbin Fed Com #1H

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	639428.80 ft	Latitude:	32 45	22.067 N
	+E/-W	0.00 ft	Easting:	703782.80 ft	Longitude:	103 40	13.682 W
Position Uncertainty:		0.00 ft					

Wellpath: 1

Current Datum:	SITE		Height	3952.00 ft	Drilled From:	Surface
Magnetic Data:	7/1/2013				Tie-on Depth:	0.00 ft
Field Strength:	48746 nT				Above System Datum:	Mean Sea Level
Vertical Section:Depth From (TVD)		+N/-S			Declination:	7.42 deg
	ft	ft			Mag Dip Angle:	60.61 deg
	8902.00	0.00			+E/-W	Direction
					ft	deg
					0.00	5.22

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	5.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8537.58	0.00	5.22	8537.58	0.00	0.00	0.00	0.00	0.00	0.00	
9713.06	94.04	5.22	9252.00	763.46	69.76	8.00	8.00	0.00	5.22	

14682.88 94.04 5.22 8902.00 5700.37 OXY CORBIN FED COM #1H P1 SVY 0.00 0.00 0.00 0.00 PBHL

Survey

MD Comment	Incl ft	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	
8500.00	0.00	5.22	8500.00	0.00	0.00	0.00	0.00	639428.80	703782.80	
8537.57	0.00	5.22	8537.57	0.00	0.00	0.00	0.00	639428.80	703782.80	KOP
8537.58	0.00	5.22	8537.58	0.00	0.00	0.00	0.00	639428.80	703782.80	
8550.00	0.99	5.22	8550.00	0.11	0.01	0.11	8.00	639428.91	703782.81	
8600.00	4.99	5.22	8599.92	2.71	0.25	2.72	8.00	639431.51	703783.05	
8650.00	8.99	5.22	8649.54	8.77	0.80	8.81	8.00	639437.57	703783.60	
8700.00	12.99	5.22	8698.61	18.26	1.67	18.34	8.00	639447.06	703784.47	
8750.00	16.99	5.22	8746.90	31.14	2.85	31.27	8.00	639459.94	703785.65	
8800.00	20.99	5.22	8794.17	47.34	4.33	47.54	8.00	639476.14	703787.13	
8850.00	24.99	5.22	8840.19	66.79	6.10	67.07	8.00	639495.59	703788.90	
8900.00	28.99	5.22	8884.73	89.39	8.17	89.76	8.00	639518.19	703790.97	
8950.00	32.99	5.22	8927.58	115.02	10.51	115.50	8.00	639543.82	703793.31	
9000.00	36.99	5.22	8968.53	143.57	13.12	144.17	8.00	639572.37	703795.92	
9050.00	40.99	5.22	9007.39	174.90	15.98	175.62	8.00	639603.70	703798.78	
9100.00	44.99	5.22	9043.95	208.84	19.08	209.71	8.00	639637.64	703801.88	
9150.00	48.99	5.22	9078.05	245.25	22.41	246.27	8.00	639674.05	703805.21	
9200.00	52.99	5.22	9109.51	283.93	25.94	285.11	8.00	639712.73	703808.74	
9250.00	56.99	5.22	9138.19	324.71	29.67	326.06	8.00	639753.51	703812.47	
9300.00	60.99	5.22	9163.94	367.38	33.57	368.91	8.00	639796.18	703816.37	
9350.00	64.99	5.22	9186.64	411.73	37.62	413.45	8.00	639840.53	703820.42	
9400.00	68.99	5.22	9206.18	457.55	41.81	459.46	8.00	639886.35	703824.61	
9450.00	72.99	5.22	9222.46	504.62	46.11	506.72	8.00	639933.42	703828.91	
9500.00	76.99	5.22	9235.40	552.71	50.50	555.01	8.00	639981.51	703833.30	
9550.00	80.99	5.22	9244.95	601.57	54.97	604.08	8.00	640030.37	703837.77	
9600.00	84.99	5.22	9251.05	650.98	59.48	653.70	8.00	640079.78	703842.28	
9650.00	88.99	5.22	9253.67	700.70	64.02	703.62	8.00	640129.50	703846.82	
9700.00	92.99	5.22	9252.80	750.47	68.57	753.60	8.00	640179.27	703851.37	
9712.92	94.03	5.22	9252.01	763.32	69.74	766.50	8.00	640192.12	703852.54	LP
9713.06	94.04	5.22	9252.00	763.46	69.76	766.64	8.00	640192.26	703852.56	
9800.00	94.04	5.22	9245.88	849.82	77.65	853.36	0.00	640278.62	703860.45	
9900.00	94.04	5.22	9238.83	949.16	86.72	953.11	0.00	640377.96	703869.52	
10000.00	94.04	5.22	9231.79	1048.50	95.80	1052.86	0.00	640477.30	703878.60	
10100.00	94.04	5.22	9224.75	1147.83	104.88	1152.61	0.00	640576.63	703887.68	
10200.00	94.04	5.22	9217.71	1247.17	113.95	1252.37	0.00	640675.97	703896.75	
10300.00	94.04	5.22	9210.66	1346.51	123.03	1352.12	0.00	640775.31	703905.83	
10400.00	94.04	5.22	9203.62	1445.85	132.11	1451.87	0.00	640874.65	703914.91	
10500.00	94.04	5.22	9196.58	1545.18	141.18	1551.62	0.00	640973.98	703923.98	
10600.00	94.04	5.22	9189.54	1644.52	150.26	1651.37	0.00	641073.32	703933.06	
10700.00	94.04	5.22	9182.49	1743.86	159.33	1751.12	0.00	641172.66	703942.13	
10800.00	94.04	5.22	9175.45	1843.20	168.41	1850.88	0.00	641272.00	703951.21	

OXY CORBIN FED COM #1H P1 SVY									
10900.00	94.04	5.22	9168.41	1942.54	177.49	1950.63	0.00	641371.34	703960.29
11000.00	94.04	5.22	9161.37	2041.87	186.56	2050.38	0.00	641470.67	703969.36
11100.00	94.04	5.22	9154.32	2141.21	195.64	2150.13	0.00	641570.01	703978.44
11200.00	94.04	5.22	9147.28	2240.55	204.72	2249.88	0.00	641669.35	703987.52
11300.00	94.04	5.22	9140.24	2339.89	213.79	2349.63	0.00	641768.69	703996.59
11400.00	94.04	5.22	9133.20	2439.23	222.87	2449.39	0.00	641868.03	704005.67
11500.00	94.04	5.22	9126.15	2538.56	231.95	2549.14	0.00	641967.36	704014.75
11600.00	94.04	5.22	9119.11	2637.90	241.02	2648.89	0.00	642066.70	704023.82
11700.00	94.04	5.22	9112.07	2737.24	250.10	2748.64	0.00	642166.04	704032.90
11800.00	94.04	5.22	9105.03	2836.58	259.18	2848.39	0.00	642265.38	704041.98
11900.00	94.04	5.22	9097.98	2935.92	268.25	2948.15	0.00	642364.72	704051.05
12000.00	94.04	5.22	9090.94	3035.25	277.33	3047.90	0.00	642464.05	704060.13
12100.00	94.04	5.22	9083.90	3134.59	286.40	3147.65	0.00	642563.39	704069.20
12200.00	94.04	5.22	9076.86	3233.93	295.48	3247.40	0.00	642662.73	704078.28
12300.00	94.04	5.22	9069.81	3333.27	304.56	3347.15	0.00	642762.07	704087.36
12400.00	94.04	5.22	9062.77	3432.61	313.63	3446.90	0.00	642861.41	704096.43
12500.00	94.04	5.22	9055.73	3531.94	322.71	3546.66	0.00	642960.74	704105.51
12600.00	94.04	5.22	9048.69	3631.28	331.79	3646.41	0.00	643060.08	704114.59
12700.00	94.04	5.22	9041.64	3730.62	340.86	3746.16	0.00	643159.42	704123.66
12800.00	94.04	5.22	9034.60	3829.96	349.94	3845.91	0.00	643258.76	704132.74
12900.00	94.04	5.22	9027.56	3929.29	359.02	3945.66	0.00	643358.09	704141.82
13000.00	94.04	5.22	9020.52	4028.63	368.09	4045.41	0.00	643457.43	704150.89
13100.00	94.04	5.22	9013.47	4127.97	377.17	4145.17	0.00	643556.77	704159.97
13200.00	94.04	5.22	9006.43	4227.31	386.25	4244.92	0.00	643656.11	704169.05
13300.00	94.04	5.22	8999.39	4326.65	395.32	4344.67	0.00	643755.45	704178.12
13400.00	94.04	5.22	8992.35	4425.98	404.40	4444.42	0.00	643854.78	704187.20
13500.00	94.04	5.22	8985.30	4525.32	413.47	4544.17	0.00	643954.12	704196.27
13600.00	94.04	5.22	8978.26	4624.66	422.55	4643.92	0.00	644053.46	704205.35
13700.00	94.04	5.22	8971.22	4724.00	431.63	4743.68	0.00	644152.80	704214.43
13800.00	94.04	5.22	8964.18	4823.34	440.70	4843.43	0.00	644252.14	704223.50
13900.00	94.04	5.22	8957.13	4922.67	449.78	4943.18	0.00	644351.47	704232.58
14000.00	94.04	5.22	8950.09	5022.01	458.86	5042.93	0.00	644450.81	704241.66
14100.00	94.04	5.22	8943.05	5121.35	467.93	5142.68	0.00	644550.15	704250.73
14200.00	94.04	5.22	8936.01	5220.69	477.01	5242.43	0.00	644649.49	704259.81
14300.00	94.04	5.22	8928.96	5320.03	486.09	5342.19	0.00	644748.83	704268.89
14400.00	94.04	5.22	8921.92	5419.36	495.16	5441.94	0.00	644848.16	704277.96
14500.00	94.04	5.22	8914.88	5518.70	504.24	5541.69	0.00	644947.50	704287.04
14600.00	94.04	5.22	8907.84	5618.04	513.32	5641.44	0.00	645046.84	704296.12
14682.88	94.04	5.22	8902.00	5700.37	520.84	5724.11	0.00	645129.17	704303.64 PBHL

Targets

					Map		Map		<---- Latitude			--<---- Longitude		
---	Name	Description	TVD	+N/-S	+E/-W	Northing	Easting		Deg	Min	Sec	Deg	Min	Sec
		Dip. Dir.	ft	ft	ft	ft	ft							
	PBHL		8902.00	5700.37	520.84	645129.17	704303.64		32	46	18.439 N	103	40	7.164 W

OXY CORBIN FED COM #1H P1 SVY

Annotation

MD	TVD	
ft	ft	
8537.57	8537.57	KOP
9712.92	9252.01	LP
14696.19	0.00	PBHL

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



SHAFFER BOLTED-COVER SPHERICAL
ANNULAR PREVENTER. (API 16A
MONOGRAMMED, 13 5/8"-5M WP).
10M BOTTOM FLANGE x 5M.
STUDDED TOP (WEIGHT ~ 14,300
LBS WITH SHAFFER API 16A HOT
OIL RESISTANT ACRYLONITRILE
ELEMENT)

CAMERON UM DOUBLE
RAM-TYPE PREVENTER (API 16A
MONODRUMMED, 13 5/8"-10M
WP), WITH 5" CAMERON PIPE
RAMS (CAMRAM FRONT PACKERS
& TOP SEALS) IN TOP CAVITY
AND CAMERON 35 SHEARING
BLIND RAMS IN BOTTOM CAVITY.
BOTTOM FLANGE IS STUDDED
TOP (WEIGHT = 21,100 LBS;
WITH RAMS)

13 5/8" - 10M W/ CAMERON DRILLING SPOOL (API 18A MONOGRAMMED), STUDDED TOP & FLANGED BOTTOM WITH 4 1/16" - 10M W/ FLANGED OUTLETS (WEIGHT APPROXIMATELY 8,000 LBS)

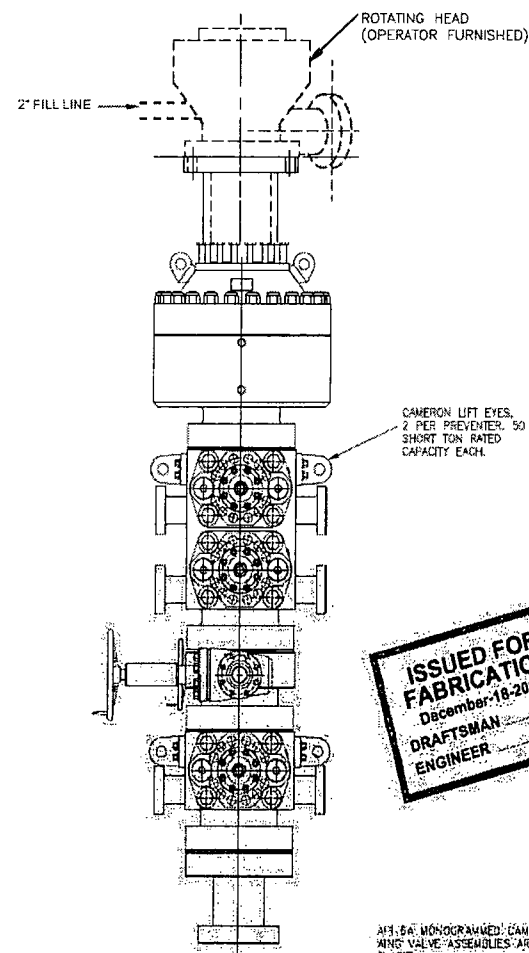
CAMERON 11M SINGLE-RAM-TYPE
PREVENTER (API 18A)
MONODRAWN, 13 5/8" - 10M WP
WITH 5" CAMERON PIPE RAMS
(CAMRAM FRONT PACKERS & TOP
SEALS) BOTTOM FLANGE
STUDDED TOP
WEIGHT = 10,900 LBS

H&P FURNISHED
13 5/8" - 10M x 13 5/8" - 5M
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
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 author-
ized officer of HELMICH & PAYNE, NTL BUILDING CO.



ISSUED FOR FABRICATION
December-18-2007
DRAFTSMAN _____
ENGINEER _____

AF 5A MONOGRAMMED CAMERON CHOKE AND KILLING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY

WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS
OR QUICK CONNECT FITTINGS.



13 5/8"-10M BOP 3 RAM STACK
FLEXRIG3

CUSTOMER: H63

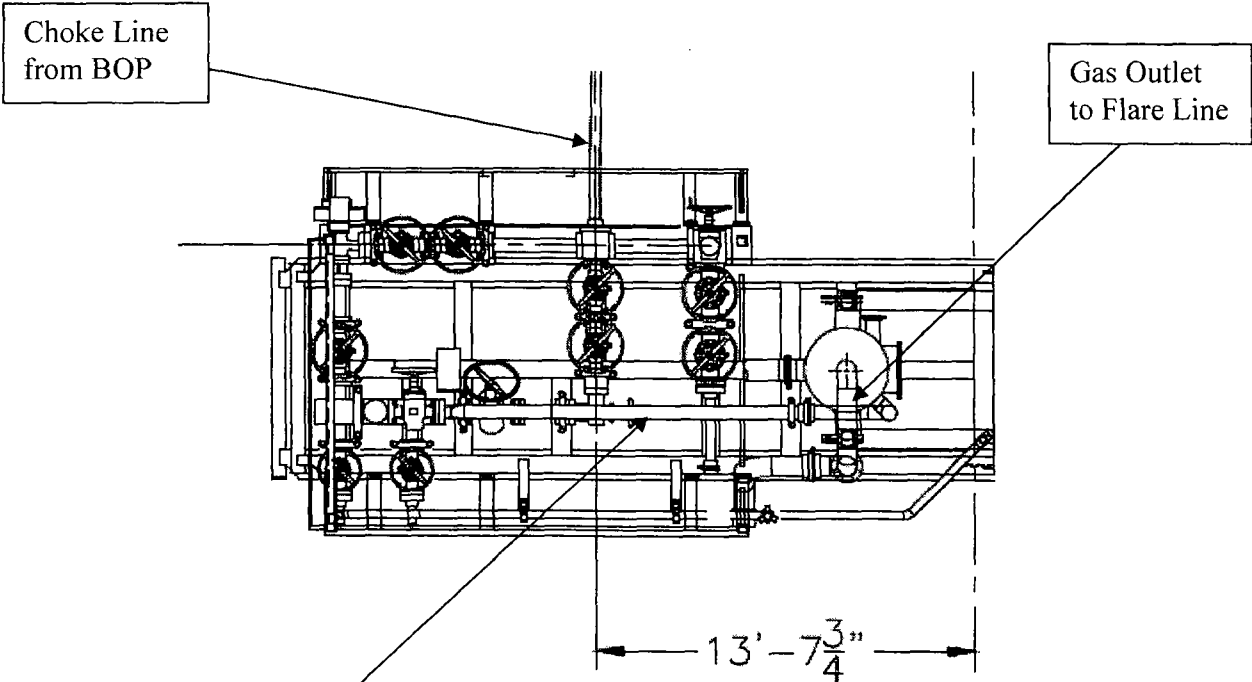
PROJECT: FLEXRIGS

FROM	QTS
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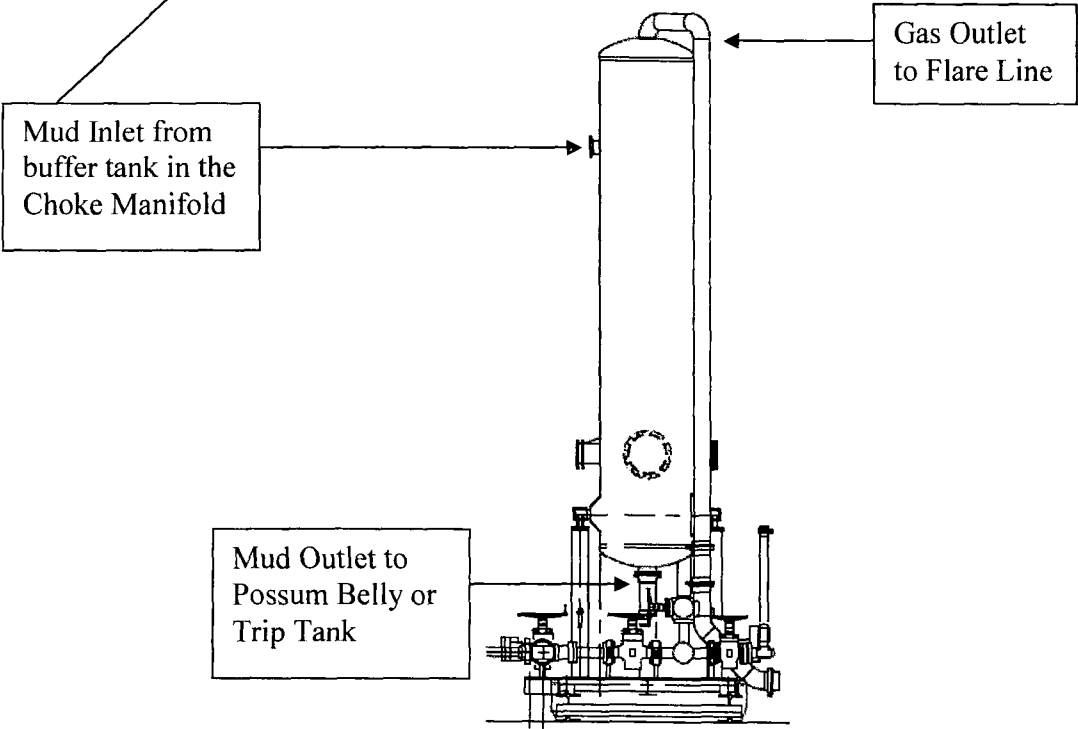
SCALE: 3/4" = 1'

100

Choke Manifold – Gas Separator (Top View)



Choke Manifold – Gas Separator (Side View)

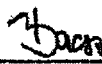
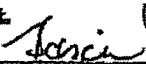


Coflex Hose Certification



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 KIL Quality Control Dept. (1)		

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittonmore 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 QAL 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.

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittanore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: sales@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.



Material Identification Certificate

PA No	006330	Client	HELMERICH & PAYNE INT'L DRILLING	Client Ref	370-389-001	Page	1
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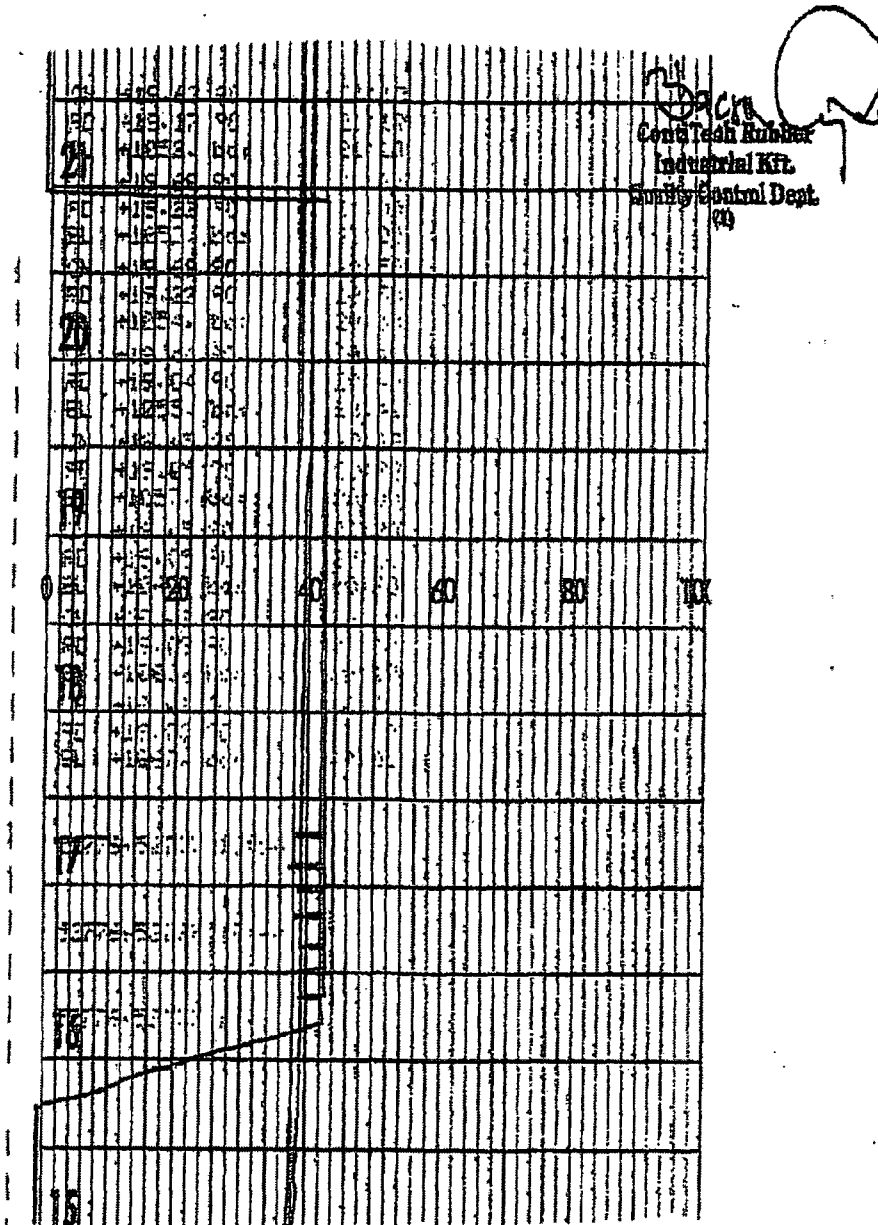
We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattie Corporation.

05/23/09.

Coflex Hose Certification

Coflex Hose Certification

Page: 1/1



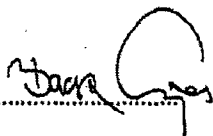
CERTIFICATE OF CONFORMITY

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

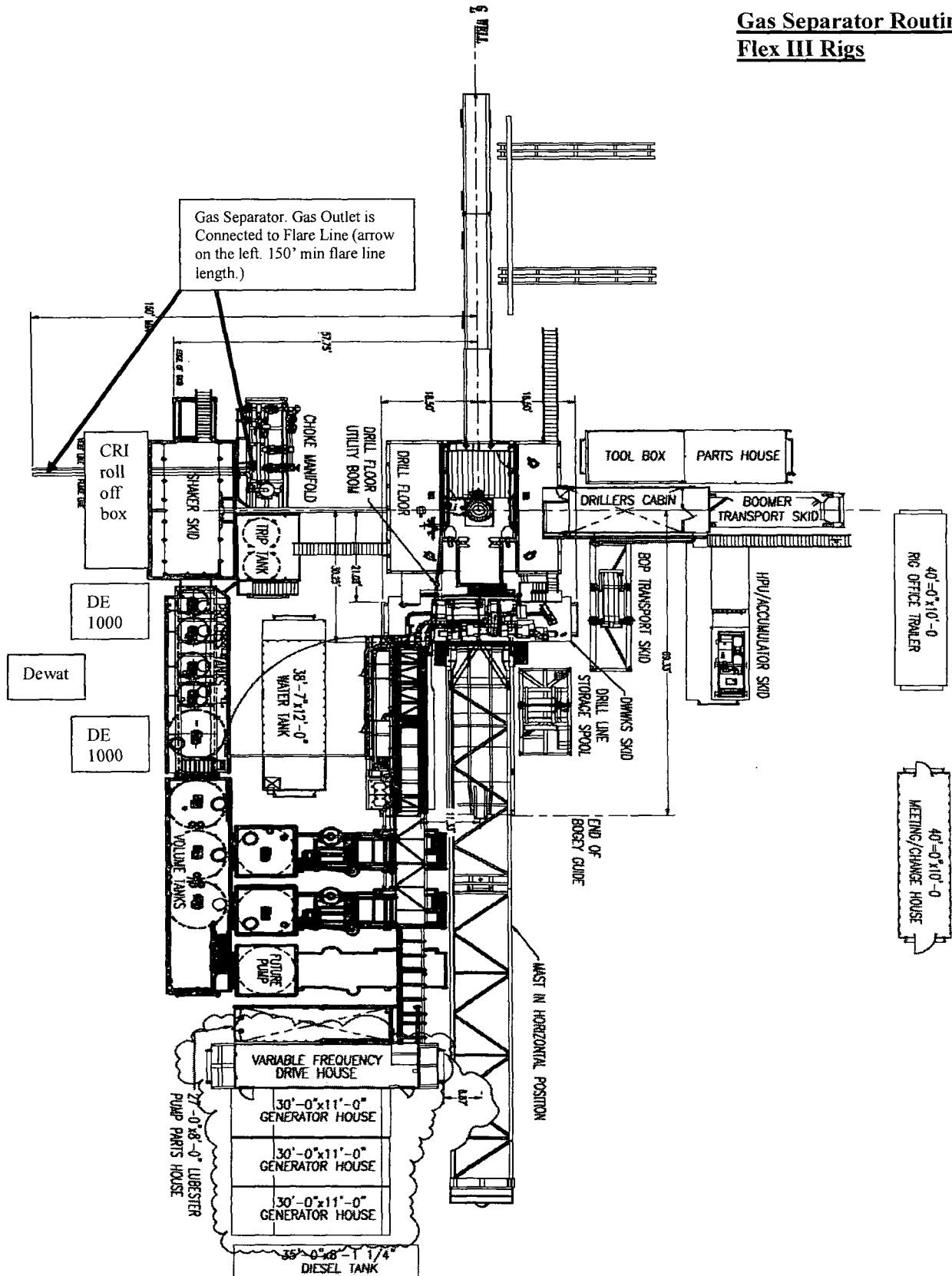
Signed : 

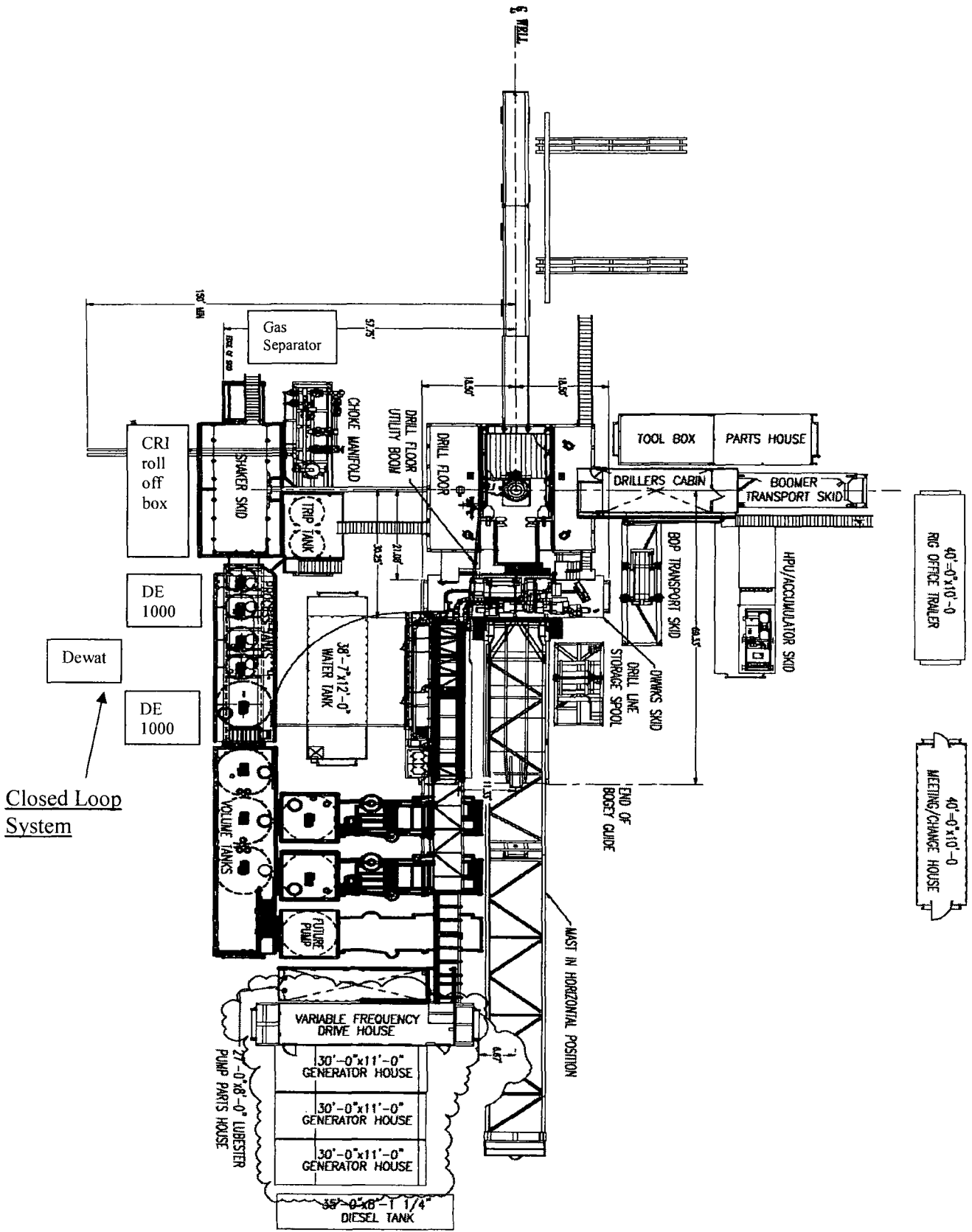
Position: Q.C. Manager

ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(1)

Date: 04. April. 2008

Gas Separator Routing Flex III Rigs



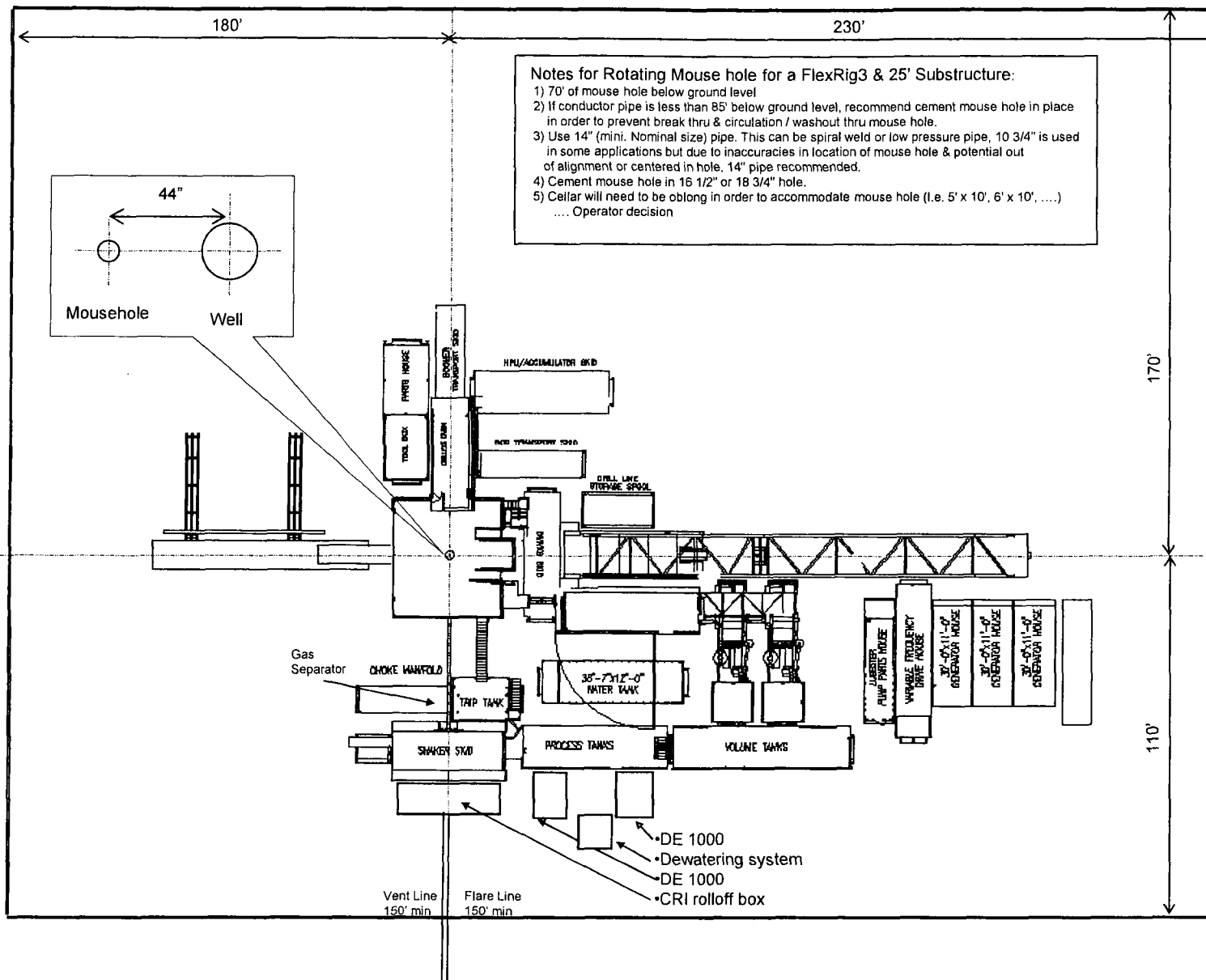


Closed Loop System

Dewat

OXY FLEX III PAD (SCOMI Closed Loop System)

Level Area-No Caliche-For Offices and Living Quarters





New Mexico Drilling Daily Circulating System Inspection
For Closed Loop Systems

Wellname:		Permit #:		Rig Mobe 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.