

HOBBS OCD

ATS-13-822

Form 3160-3
(April 2004)

NOV 10 2014

SECRETARY'S PG TASH

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007RECEIVED UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

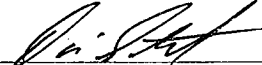
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM109758
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. NM126140X
3a. Address P.O. Box 50250 Midland, TX 79710		8. Lease Name and Well No. <39664> Speak Easy Federal Unit #4H
3b. Phone No. (include area code) 432-685-5717		9. API Well No. 30-025- 42266
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1980 FNL 330 FWL SWNW (E) At proposed prod. zone 1980 FNL 330 FEL SENE (H)		10. Field and Pool, or Exploratory <6925> Bootleg Ridge Delaware, NW
14. Distance in miles and direction from nearest town or post office* 28 miles east from Eunice, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 1 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 559.68ac	17. Spacing Unit dedicated to this well 160ac
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1500'-40306 660'-40095	19. Proposed Depth 12852'M 8537'V	20. BLM/BIA Bond No. on file NMB000862 - ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3642.2' GL	22. Approximate date work will start* 12/10/2013	23. Estimated duration 35 days

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 5/21/13
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Title Sr. Regulatory Advisor	david_stewart@oxy.com
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Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date NOV - 6 2014
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Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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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.

OCD CONDITION OF APPROVAL;

Operator must be in compliance with NMOCD Rule 5.9 prior to transporting or selling product.

Carlsbad Controlled Water Basin

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**
NOV 14 2014

Approval Subject to General Requirements
& Special Stipulations Attached

OXY USA Inc.
Speak Easy Federal Unit #4H
APD Drilling Data (3)

OPERATOR NAME / NUMBER: OXY USA Inc.

LEASE NAME / NUMBER: Speak Easy Federal Unit #4H - Federal Unit No. NM126140X

STATE: NM **COUNTY:** Lea

POOL NAME/NUMBER: Bootleg Ridge Delaware, NW 6925

SURFACE LOCATION: 1980 FNL 330 FWL SWNW(E) Sec 1 T22S R32E-NMNM109758

SL: LAT: 32.4225228N LONG:103.6353911W X:715362.6 Y:518131.2 NAD: 27

BOTTOM HOLE LOCATION: 1980 FNL 330 FEL SENE(H) Sec 1 T22S R32E-NMNM109758

BH: LAT: 32.4225762N LONG:103.6204102W X:719985.3 Y:518181.1 NAD: 27

C-102 PLAT APPROX GR ELEV: 3642.2' EST KB ELEV: 3667.2' (25' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

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

Formation Tops	TV Depth Top	Expected Fluids
T. Rustler	1042	None
Salado (T. Salt)	1287	None
Base of Salt	4712	None
T. Lamar (B. Anhydrite)	4762	None
Bell Canyon	4827	Oil, Gas
Cherry Canyon	5667	Oil, Gas
Brushy Canyon	6897	Oil, Gas
Brushy Canyon A4 Sand LP	8537	Oil, Gas
Brushy Canyon A4 Sand BHL	8537	Oil, Gas
Top Bone Springs	8734	

Fresh water may be present above the Rustler. Surface casing will be set inside the Rustler to isolate any potential fresh water. 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.

GREATEST PROJECTED TD 12,852 MD / 8,537' TVD **OBJECTIVE:** Brushy Canyon A4 Sand

3. CASING PROGRAM

Surface Casing: New 13.375" casing set at $\pm$ 1075' MD / 1075' TVD in a 16" hole filled with 8.6 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' - 1075' ^{1100'}	1075'	48	H-40	STC	770	1730	322	12.715	12.559	1.90	2.33	2.29

Intermediate Casing: New 9.625" casing set at $\pm$ 4860' MD / 4860' TVD in a 12.25" hole filled with 10.2 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' - 4860' ^{4700'}	4860'	40	J-55	LTC	2570	3950	520	8.835	8.75	1.61	1.32	1.99

Production Casing: New 5.5" casing set at $\pm$ 12852' MD / 8537' TVD in a 8.5" hole filled with 9.2 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'- 12852'	12852'	17	L-80	BTC	6290	7740	397(tbg)	4.892	4.767	1.51	1.25	1.76

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
Surface (TOC: 0' -1075')							
Lead: 0' - 759' (125% Excess)	420	759	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 4% Bentonite (Light Weight Additive), 1% Calcium Chloride - Flake (Accelerator), 0.25 lbm/sk Poly-E-Flake (Lost Circulation Additive)	9.12	13.5	1.73	1069 psi
Tail: <i>1100</i> 759' - 1075' (125% Excess)	250	316	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 2% Calcium Chloride - Flake (Accelerator)	6.37	14.8	1.35	1425 psi

See COA

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Intermediate (TOC: 0' -4860')							
Lead: 0' - 4250' (105% Excess)	1350	4250	Light Premium Plus Cement: 5% Salt (Salt), 0.35% HR-800 (Retarder)	9.84	12.9	1.85	734 psi
Tail: <i>4700</i> 4250' - 4860' (105 % Excess)	310	610	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement)	6.34	14.8	1.33	1849 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ / sk	24 Hr Comp
Production (0'-12852) 1st Stage							
Lead: 0' - 7880' (100 % Excess)	1050	7880	Tuned Light TM System 3 lbm/sk Kol-Seal (Light Weight Additive) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	12.04	10.5	2.68	940 psi 500 psi @ 13h 35min
Tail: 7880' - 12852' (40 % Excess)	980	4972	Super H Cement: 0.5% Halad(R)-344 (Low Fluid Loss Control), 0.4% CFR-3 (Dispersant) 2 lbm/sk Kol-Seal (Lost Circulation Additive), 3 lbm/sk Salt (Salt) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 0.1% HR-601 (Retarder)	8.42	13.2	1.65	1275 psi
<u>DV Tool @ 4910'</u>							
Production (TOC: 0') 2nd Stage							
Lead: 0' - 4418' (10% Excess)	620	4418	Light Premium Plus: 3 lbm/sk Salt (Salt)	11.39	12.4	2.05	450 psi 500#- 29hr
Tail: 4418' - 4910' (10% Excess)	100	492	Premium Cement: 94 lbm/sk Premium Cement (Cement)	6.34	14.8	1.33	1849 psi

Note: If losses are encountered while drilling the intermediate hole, a multiple stage cement job will be performed using stage tools. A Sundry will be sent in with the stage tool depths and revised cement plan prior to pumping the cement job.

Note: Contingency second stage will be pumped if lost circulation is present during the first stage and cement is not brought to surface. If good cement returns are seen after cementing the first stage of the production casing a cancelation plug will be pumped and no 2nd stage cement job will be performed.

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 1075' None.

Intermediate & Production: 1075 - 12852' 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.

MUD PROGRAM:

See COA

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 1075' ^{1100'}	8.4 – 8.9	32 – 36	NC	Fresh Water /Spud Mud
1075' – 4860' ^{4700'}	9.8 – 10.2	28 – 35	NC	Brine Water
4860' – 7000'	8.8 – 9.2	26 - 32	NC	Cut Brine
7000' – TD'	9.2 – 9.4	32 - 50	<10	Salt Gel/Duo Vis

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.

7. 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.
 - 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**
- See COA*

8. LOGGING / CORING AND TESTING PROGRAM:

- Mud Logger: Base of Surface Casing to TD.

B. DST's: None.

C. Open Hole Logs as follows: No wireline logs. MWD GR from base of Intermediate casing to TD.

9. POTENTIAL HAZARDS:

See COA
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. The bottom hole pressure is anticipated to be **4040 psi**.

C. No abnormal temperatures or pressures are anticipated. **The highest anticipated pressure gradient is 0.473 psi.** 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. COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Brad Brown	Drilling Engineer	713-985-6950	713-376-8417
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



Planned Wellpath Report

Rev-A.0

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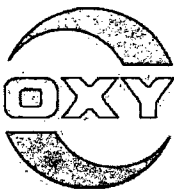
REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	Slot #4H
Area	Lea County, New Mexico	Well	No. 4H
Field	(Speakeasy) Sec 2, T22S, R32E	Wellbore	No. 4H (PWB)
Facility	Speakeasy No. 4H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Lemachrl
Scale	0.999962	Report Generated	2/13/2013 at 1:30:36 PM
Convergence at slot	0.37° East	Database/Source file	WA_Midland/No. 4H_PWB .xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W
Facility Reference Pt			715362.60	518131.20	32°25'21.082"N	103°38'07.409"W
Field Reference Pt			0.00	0.00	30°59'24.512"N	105°55'44.137"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on Slot #4H (RT) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Rig on Slot #4H (RT) to Mean Sea Level	3667.20ft
Vertical Reference Pt	Rig on Slot #4H (RT)	Rig on Slot #4H (RT) to Mud Line at Slot (Slot #4H)	25.00ft
MD Reference Pt	Rig on Slot #4H (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.38°

DP-1



Planned Wellpath Report

Rev-A.0

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REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot #4H
Area	Lea County, New Mexico	Well	No. 4H
Field	(Speakeasy) Sec 2, T22S, R32E	Wellbore	No. 4H (PWB)
Facility	Speakeasy No. 4H		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00	0.000	89.382	0.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
100.00†	0.000	89.382	100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
200.00†	0.000	89.382	200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
300.00†	0.000	89.382	300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
400.00†	0.000	89.382	400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
500.00†	0.000	89.382	500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
600.00†	0.000	89.382	600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
700.00†	0.000	89.382	700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
800.00†	0.000	89.382	800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
900.00†	0.000	89.382	900.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1000.00†	0.000	89.382	1000.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1100.00†	0.000	89.382	1100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1200.00†	0.000	89.382	1200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1300.00†	0.000	89.382	1300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1400.00†	0.000	89.382	1400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1500.00†	0.000	89.382	1500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1600.00†	0.000	89.382	1600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1700.00†	0.000	89.382	1700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1800.00†	0.000	89.382	1800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
1900.00†	0.000	89.382	1900.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2000.00†	0.000	89.382	2000.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2100.00†	0.000	89.382	2100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2200.00†	0.000	89.382	2200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2300.00†	0.000	89.382	2300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2400.00†	0.000	89.382	2400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2500.00†	0.000	89.382	2500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2600.00†	0.000	89.382	2600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2700.00†	0.000	89.382	2700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2800.00†	0.000	89.382	2800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
2900.00†	0.000	89.382	2900.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00

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REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	Slot #4H
Area	Lea County, New Mexico	Well	No. 4H
Field	(Speakeasy) Sec 2, T22S, R32E	Wellbore	No. 4H (PWB)
Facility	Speakeasy No. 4H		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
3000.00†	0.000	89.382	3000.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3100.00†	0.000	89.382	3100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3200.00†	0.000	89.382	3200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3300.00†	0.000	89.382	3300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3400.00†	0.000	89.382	3400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3500.00†	0.000	89.382	3500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3600.00†	0.000	89.382	3600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3700.00†	0.000	89.382	3700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3800.00†	0.000	89.382	3800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
3900.00†	0.000	89.382	3900.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4000.00†	0.000	89.382	4000.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4100.00†	0.000	89.382	4100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4200.00†	0.000	89.382	4200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4300.00†	0.000	89.382	4300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4400.00†	0.000	89.382	4400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4500.00†	0.000	89.382	4500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4600.00†	0.000	89.382	4600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4700.00†	0.000	89.382	4700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4800.00†	0.000	89.382	4800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
4900.00†	0.000	89.382	4900.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5000.00†	0.000	89.382	5000.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5100.00†	0.000	89.382	5100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5200.00†	0.000	89.382	5200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5300.00†	0.000	89.382	5300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5400.00†	0.000	89.382	5400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5500.00†	0.000	89.382	5500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5600.00†	0.000	89.382	5600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5700.00†	0.000	89.382	5700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5800.00†	0.000	89.382	5800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
5900.00†	0.000	89.382	5900.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00

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REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	Slot #4H
Area	Lea County, New Mexico	Well	No. 4H
Field	(Speakeasy) Sec 2, T22S, R32E	Wellbore	No. 4H (PWB)
Facility	Speakeasy No. 4H		

WELLPATH DATA (132 stations) * = interpolated/extrapolated station													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
6000.00†	0.000	89.382	6000.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6100.00†	0.000	89.382	6100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6200.00†	0.000	89.382	6200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6300.00†	0.000	89.382	6300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6400.00†	0.000	89.382	6400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6500.00†	0.000	89.382	6500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6600.00†	0.000	89.382	6600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6700.00†	0.000	89.382	6700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6800.00†	0.000	89.382	6800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
6900.00†	0.000	89.382	6900.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7000.00†	0.000	89.382	7000.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7100.00†	0.000	89.382	7100.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7200.00†	0.000	89.382	7200.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7300.00†	0.000	89.382	7300.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7400.00†	0.000	89.382	7400.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7500.00†	0.000	89.382	7500.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7600.00†	0.000	89.382	7600.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7700.00†	0.000	89.382	7700.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7800.00†	0.000	89.382	7800.00	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7820.80	0.000	89.382	7820.80	0.00	0.00	0.00	715362.60	518131.20	32°25'21.082"N	103°38'07.409"W	0.00	0.000	0.00
7900.00†	6.336	89.382	7899.84	4.37	0.05	4.37	715366.97	518131.25	32°25'21.083"N	103°38'07.358"W	4.37	89.382	8.00
8000.00†	14.336	89.382	7998.14	22.30	0.24	22.30	715384.90	518131.44	32°25'21.083"N	103°38'07.148"W	22.30	89.382	8.00
8100.00†	22.336	89.382	8092.98	53.73	0.58	53.73	715416.33	518131.78	32°25'21.085"N	103°38'06.782"W	53.73	89.382	8.00
8200.00†	30.336	89.382	8182.53	98.06	1.06	98.06	715460.65	518132.26	32°25'21.087"N	103°38'06.265"W	98.06	89.382	8.00
8300.00†	38.336	89.382	8265.04	154.42	1.67	154.41	715517.00	518132.87	32°25'21.089"N	103°38'05.607"W	154.42	89.382	8.00
8400.00†	46.336	89.382	8338.90	221.71	2.39	221.70	715584.29	518133.59	32°25'21.092"N	103°38'04.822"W	221.71	89.382	8.00
8500.00†	54.336	89.382	8402.68	298.63	3.22	298.61	715661.20	518134.42	32°25'21.095"N	103°38'03.925"W	298.63	89.382	8.00
8600.00†	62.336	89.382	8455.13	383.67	4.14	383.65	715746.24	518135.34	32°25'21.099"N	103°38'02.933"W	383.67	89.382	8.00
8700.00†	70.336	89.382	8495.23	475.19	5.13	475.16	715837.75	518136.33	32°25'21.102"N	103°38'01.865"W	475.19	89.382	8.00
8800.00†	78.336	89.382	8522.21	571.40	6.17	571.37	715933.94	518137.37	32°25'21.106"N	103°38'00.743"W	571.40	89.382	8.00

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REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot #4H
Area	Lea County, New Mexico	Well	No. 4H
Field	(Speakeasy) Sec 2, T22S, R32E	Wellbore	No. 4H (PWB)
Facility	Speakeasy No. 4H		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
8900.00†	86.336	89.382	8535.54	670.43	7.24	670.39	716032.96	518138.44	32°25'21.111"N	103°37'59.588"W	670.43	89.382	8.00
8945.80	90.000	89.382	8537.00	716.20	7.73	716.16	716078.73	518138.93	32°25'21.113"N	103°37'59.054"W	716.20	89.382	8.00
9000.00†	90.000	89.382	8537.00	770.39	8.32	770.35	716132.92	518139.52	32°25'21.115"N	103°37'58.421"W	770.39	89.382	0.00
9100.00†	90.000	89.382	8537.00	870.39	9.39	870.34	716232.91	518140.59	32°25'21.119"N	103°37'57.255"W	870.39	89.382	0.00
9200.00†	90.000	89.382	8537.00	970.39	10.47	970.34	716332.90	518141.67	32°25'21.123"N	103°37'56.088"W	970.39	89.382	0.00
9300.00†	90.000	89.382	8537.00	1070.39	11.55	1070.33	716432.89	518142.75	32°25'21.127"N	103°37'54.922"W	1070.39	89.382	0.00
9400.00†	90.000	89.382	8537.00	1170.39	12.63	1170.33	716532.88	518143.83	32°25'21.132"N	103°37'53.755"W	1170.39	89.382	0.00
9500.00†	90.000	89.382	8537.00	1270.39	13.71	1270.32	716632.87	518144.91	32°25'21.136"N	103°37'52.589"W	1270.39	89.382	0.00
9600.00†	90.000	89.382	8537.00	1370.39	14.79	1370.31	716732.86	518145.99	32°25'21.140"N	103°37'51.422"W	1370.39	89.382	0.00
9700.00†	90.000	89.382	8537.00	1470.39	15.87	1470.31	716832.85	518147.07	32°25'21.144"N	103°37'50.255"W	1470.39	89.382	0.00
9800.00†	90.000	89.382	8537.00	1570.39	16.95	1570.30	716932.84	518148.15	32°25'21.148"N	103°37'49.089"W	1570.39	89.382	0.00
9900.00†	90.000	89.382	8537.00	1670.39	18.03	1670.30	717032.83	518149.23	32°25'21.152"N	103°37'47.922"W	1670.39	89.382	0.00
10000.00†	90.000	89.382	8537.00	1770.39	19.11	1770.29	717132.82	518150.31	32°25'21.157"N	103°37'46.756"W	1770.39	89.382	0.00
10100.00†	90.000	89.382	8537.00	1870.39	20.19	1870.29	717232.81	518151.39	32°25'21.161"N	103°37'45.589"W	1870.39	89.382	0.00
10200.00†	90.000	89.382	8537.00	1970.39	21.27	1970.28	717332.80	518152.47	32°25'21.165"N	103°37'44.423"W	1970.39	89.382	0.00
10300.00†	90.000	89.382	8537.00	2070.39	22.35	2070.27	717432.79	518153.55	32°25'21.169"N	103°37'43.256"W	2070.39	89.382	0.00
10400.00†	90.000	89.382	8537.00	2170.39	23.43	2170.27	717532.78	518154.63	32°25'21.173"N	103°37'42.089"W	2170.39	89.382	0.00
10500.00†	90.000	89.382	8537.00	2270.39	24.51	2270.26	717632.77	518155.71	32°25'21.177"N	103°37'40.923"W	2270.39	89.382	0.00
10600.00†	90.000	89.382	8537.00	2370.39	25.59	2370.26	717732.76	518156.78	32°25'21.182"N	103°37'39.756"W	2370.39	89.382	0.00
10700.00†	90.000	89.382	8537.00	2470.39	26.67	2470.25	717832.75	518157.86	32°25'21.186"N	103°37'38.590"W	2470.39	89.382	0.00
10800.00†	90.000	89.382	8537.00	2570.39	27.74	2570.24	717932.74	518158.94	32°25'21.190"N	103°37'37.423"W	2570.39	89.382	0.00
10900.00†	90.000	89.382	8537.00	2670.39	28.82	2670.24	718032.73	518160.02	32°25'21.194"N	103°37'36.257"W	2670.39	89.382	0.00
11000.00†	90.000	89.382	8537.00	2770.39	29.90	2770.23	718132.72	518161.10	32°25'21.198"N	103°37'35.090"W	2770.39	89.382	0.00
11100.00†	90.000	89.382	8537.00	2870.39	30.98	2870.23	718232.71	518162.18	32°25'21.202"N	103°37'33.923"W	2870.39	89.382	0.00
11200.00†	90.000	89.382	8537.00	2970.39	32.06	2970.22	718332.70	518163.26	32°25'21.206"N	103°37'32.757"W	2970.39	89.382	0.00
11300.00†	90.000	89.382	8537.00	3070.39	33.14	3070.22	718432.69	518164.34	32°25'21.210"N	103°37'31.590"W	3070.39	89.382	0.00
11400.00†	90.000	89.382	8537.00	3170.39	34.22	3170.21	718532.68	518165.42	32°25'21.215"N	103°37'30.424"W	3170.39	89.382	0.00
11500.00†	90.000	89.382	8537.00	3270.39	35.30	3270.20	718632.67	518166.50	32°25'21.219"N	103°37'29.257"W	3270.39	89.382	0.00
11600.00†	90.000	89.382	8537.00	3370.39	36.38	3370.20	718732.66	518167.58	32°25'21.223"N	103°37'28.091"W	3370.39	89.382	0.00
11700.00†	90.000	89.382	8537.00	3470.39	37.46	3470.19	718832.65	518168.66	32°25'21.227"N	103°37'26.924"W	3470.39	89.382	0.00

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REFERENCE WELLPATH IDENTIFICATION			
Operator	OXY Permian	Slot	Slot #4H
Area	Lea County, New Mexico	Well	No. 4H
Field	(Speakeasy) Sec 2, T22S, R32E	Wellbore	No. 4H (PWB)
Facility	Speakeasy No. 4H		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station													
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
11800.00†	90.000	89.382	8537.00	3570.39	38.54	3570.19	718932.64	518169.74	32°25'21.231"N	103°37'25.757"W	3570.39	89.382	0.00
11900.00†	90.000	89.382	8537.00	3670.39	39.62	3670.18	719032.63	518170.82	32°25'21.235"N	103°37'24.591"W	3670.39	89.382	0.00
12000.00†	90.000	89.382	8537.00	3770.39	40.70	3770.17	719132.62	518171.90	32°25'21.239"N	103°37'23.424"W	3770.39	89.382	0.00
12100.00†	90.000	89.382	8537.00	3870.39	41.78	3870.17	719232.62	518172.98	32°25'21.243"N	103°37'22.258"W	3870.39	89.382	0.00
12200.00†	90.000	89.382	8537.00	3970.39	42.86	3970.16	719332.61	518174.05	32°25'21.247"N	103°37'21.091"W	3970.39	89.382	0.00
12300.00†	90.000	89.382	8537.00	4070.39	43.94	4070.16	719432.60	518175.13	32°25'21.252"N	103°37'19.924"W	4070.39	89.382	0.00
12400.00†	90.000	89.382	8537.00	4170.39	45.01	4170.15	719532.59	518176.21	32°25'21.256"N	103°37'18.758"W	4170.39	89.382	0.00
12500.00†	90.000	89.382	8537.00	4270.39	46.09	4270.15	719632.58	518177.29	32°25'21.260"N	103°37'17.591"W	4270.39	89.382	0.00
12600.00†	90.000	89.382	8537.00	4370.39	47.17	4370.14	719732.57	518178.37	32°25'21.264"N	103°37'16.425"W	4370.39	89.382	0.00
12700.00†	90.000	89.382	8537.00	4470.39	48.25	4470.13	719832.56	518179.45	32°25'21.268"N	103°37'15.258"W	4470.39	89.382	0.00
12800.00†	90.000	89.382	8537.00	4570.39	49.33	4570.13	719932.55	518180.53	32°25'21.272"N	103°37'14.092"W	4570.39	89.382	0.00
12852.76	90.000	89.382	8537.00	4623.15	49.90	4622.88	719935.30	518181.10	32°25'21.274"N	103°37'13.476"W	4623.15	89.382	0.00

BP-6



Planned Wellpath Report

Rev-A.0

Page 7 of 7



REFERENCE WELLPATH IDENTIFICATION

Operator	OXY Permian	Slot	Slot #4H
Area	Lea County, New Mexico	Well	No. 4H
Field	(Speakeasy) Sec 2, T22S, R32E	Wellbore	No. 4H (PWB)
Facility	Speakeasy No. 4H		

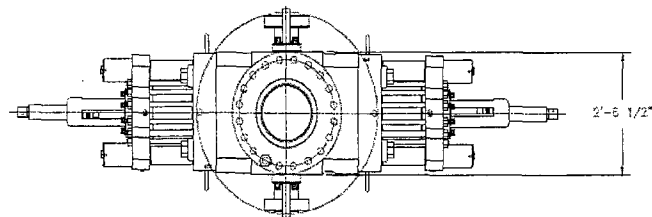
TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Speakeasy No. 4H PBHL: Rev-1	12852.76	8537.00	49.90	4622.88	719985.30	518181.10	32°25'21.274"N	103°37'13.476"W	point
Speakeasy No. 4H PP: Rev-1		8537.00	4.70	450.02	715812.60	518135.90	32°25'21.100"N	103°38'02.159"W	point
No. 4H Hard Line		9000.00	328.01	-4.60	715358.00	518459.20	32°25'24.328"N	103°38'07.437"W	polygon
No. 4H Lease Line		9000.00	658.03	-334.11	715028.50	518789.20	32°25'27.615"N	103°38'11.256"W	polygon

SURVEY PROGRAM - Ref Wellbore: No. 4H (PWB) Ref Wellpath: Rev-A.0

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	7000.00	Generic gyro - northseeking (Standard)		No. 4H (PWB)
7000.00	12852.76	NaviTrak (Standard)		No. 4H (PWB)

02-7



LEGEND

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

SEE LIFT LUG DETAIL

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 UNICOUPLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 6" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) IN TOP CAVITY AND CAMERON DS SHEARING BUND RAMS IN BOTTOM CAVITY. BOTTOM FLANGE x STUDDED TOP (WEIGHT = 21,100 LBS WITH RAMS)

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

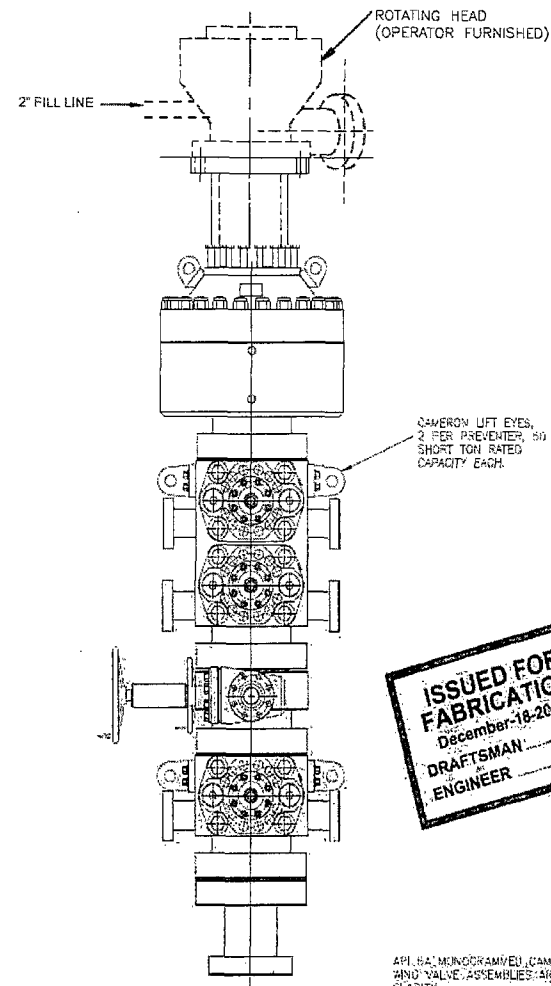
CAMERON UNASINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 6" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) BOTTOM FLANGE x STUDDED TOP (WEIGHT = 10,900 LBS)

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 DATA AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTION, COPIED, OR IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF A FULLY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.



CAMERON LIFT EYES,
2 PER PREVENTER, 50
SHORT TON RATED
CAPACITY EACH

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

API 16A MONOGRAMMED, CAMERON CHECK AND KILL AND VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY

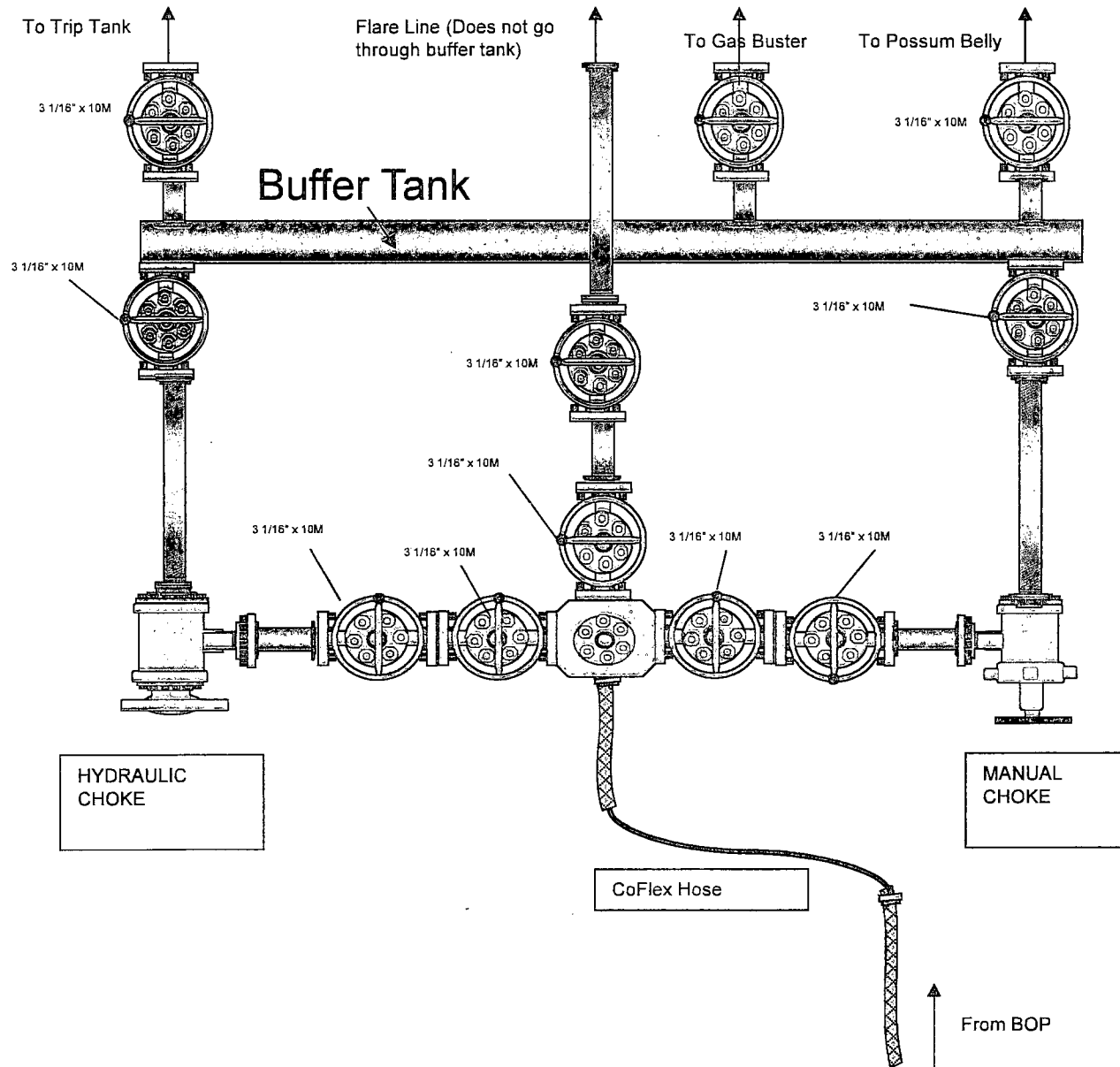
WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

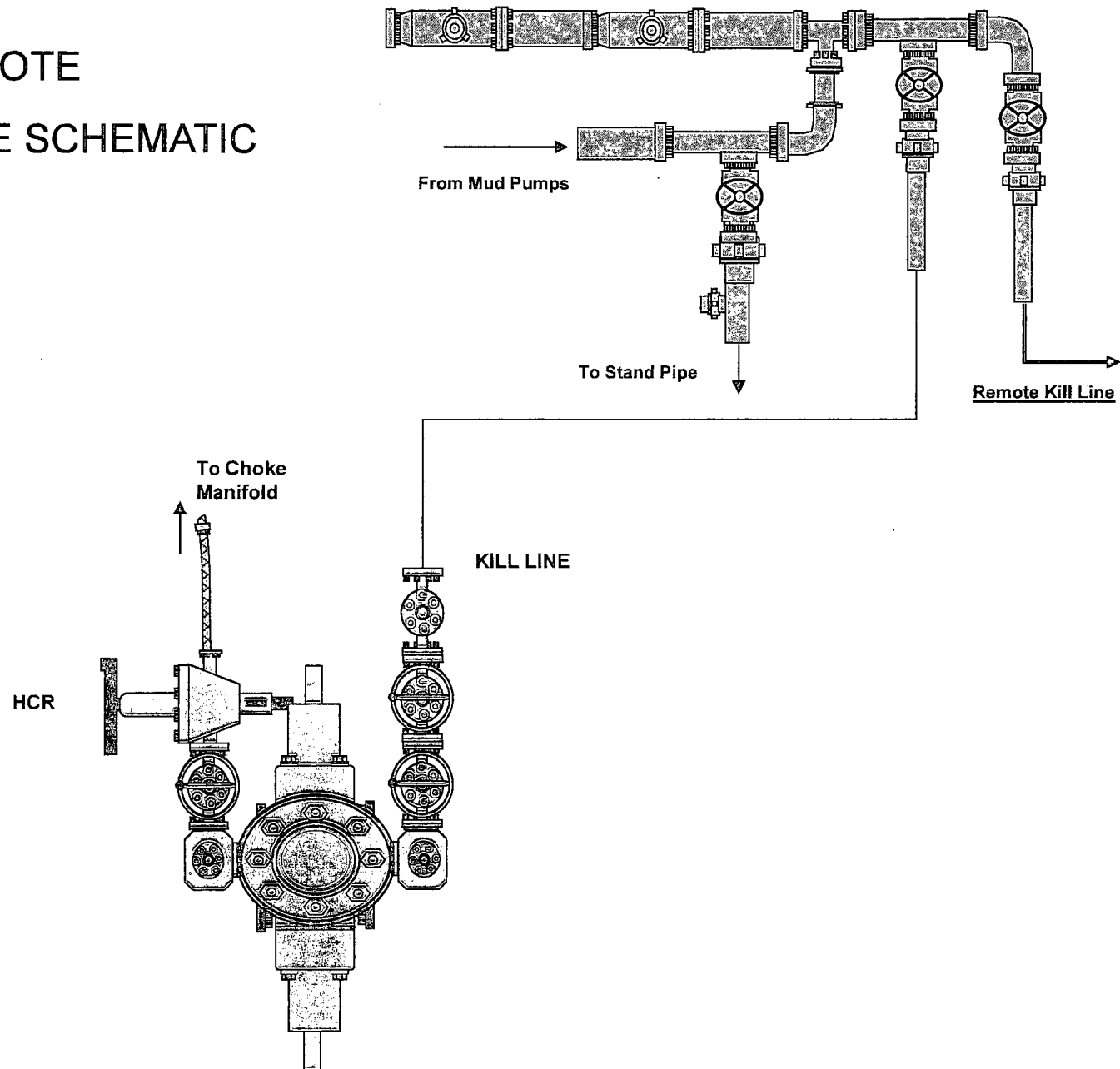
ENGINEERING/REVISION		DATE	TITLE
12/18/07	ADDED SHEET 02	JAY	13 5/8" - 10M BOP 3 RAM STACK
4-10-07	CHANGED SPOUT DOUBLE STUDDED ADAPTER SPOOLS 13 5/8" - 5M TO 10M	JND	FLEXRIG 3
6-24-07	8" ADDED TO SPOUT ADAPTER SPOOL	JND	CUSTOMER: H&P
12-07-07	ADDED ADAPTER SPOOL	JND	PROJECT: FLEXRIG 3
06-13-08	COMPLETED BOP STACK	JND	REVISION: N/A
REV	DATE	DESCRIPTION	BY
SCALE	1/4"=1'	SHEET	1 OF 1
DATE	2008-05-02	PROJECT NO.	210-PT-07
SCALE	1/4"=1'	SHEET	1 OF 1

BOP

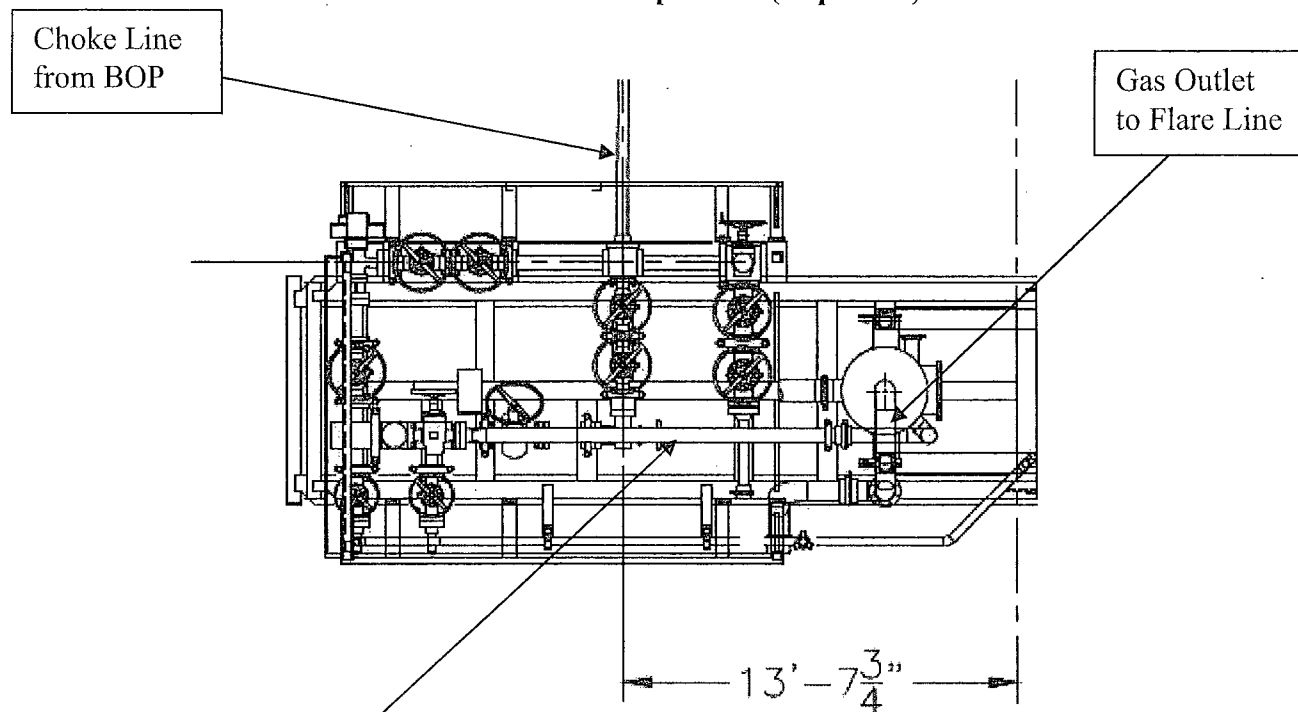
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



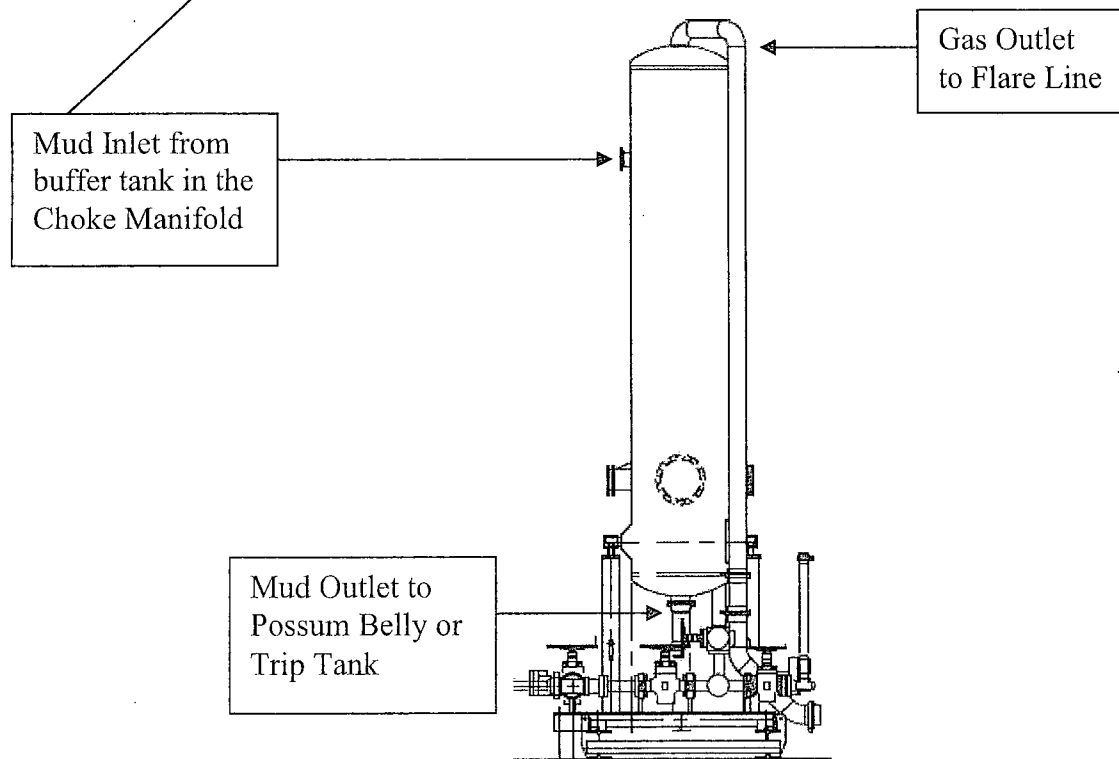
10M REMOTE KILL LINE SCHEMATIC



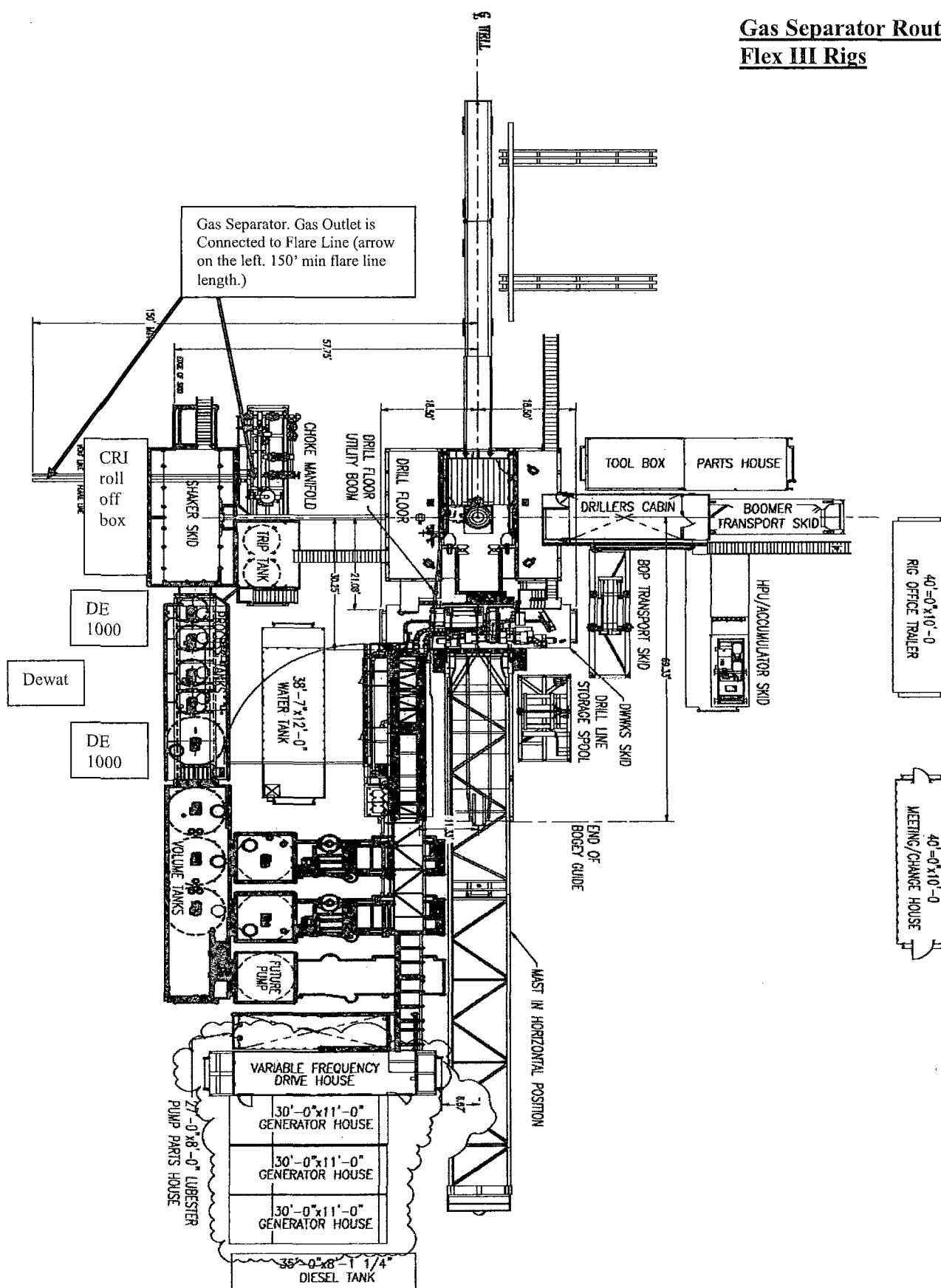
Choke Manifold – Gas Separator (Top View)



Choke Manifold – Gas Separator (Side View)



Gas Separator Routing **Flex III Rigs**



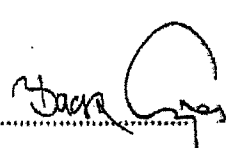
CERTIFICATE OF CONFORMITY

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 : 

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

Date: 04. April. 2008

Position: Q.C. Manager

Coflex Hose Certification

Page: 1/1

[illegible]



Material Identification Certificate

PA No	006330	Client	HELMERICH & PAYNE INT'L DRILLING	Cont Ref	370-369-001	Page	1
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[illegible]

We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattle Corporation.

05/23/09.

Coflex Hose Certification

Flt-3

Coflex Hose Certification

FH-4

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 AISI 4130	T7998A 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 Kft. Quality Control Dept. (1)		

Coflex Hose Certification

FH-6

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	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 :

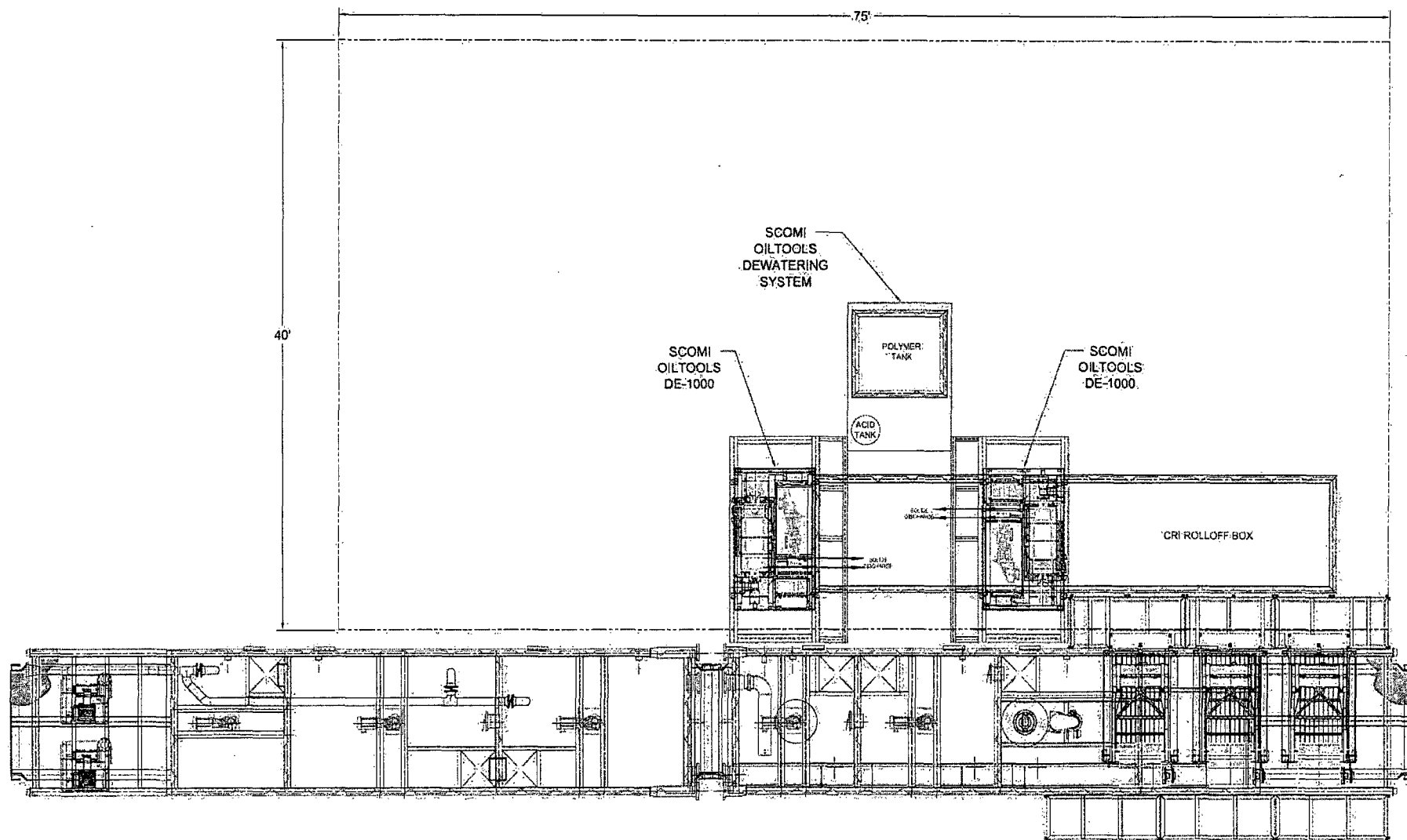
Received In Good Condition : Signature

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.

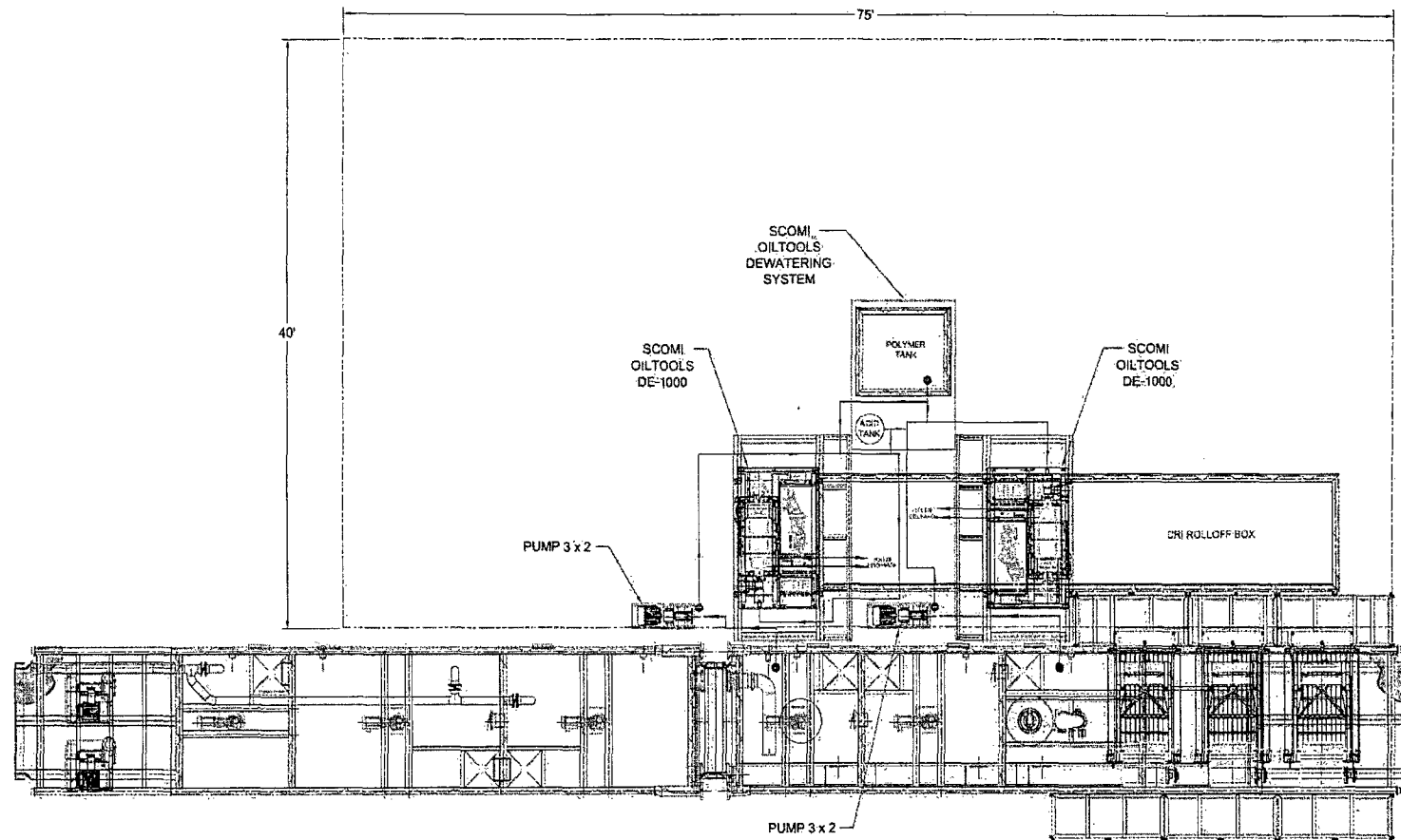
BILL OF MATERIAL			
ITEM	QTY.	DESCRIPTION	LENGTH WEIGHT



				1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36. 2. ALL PIPE SCH. 40 MATERIAL, SA-105 OR D. 3. ALL FLANGES SHALL BE SCH. 150 1/2" MATERIAL, SA-105. 4. ALL FITTINGS, SCH. 40 MATERIAL, SHALL BE SA-234 OR WPB. 5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API-650.	FILE # CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY-H&P-FLEX RIGS / PG 1 OF 2	Scomi 621 N. Bark Houston Parkway East, Suite 300, Houston, Texas 77062 PHONE: (281) 280-0010 FAX: (281) 280-0009
				THE DESIGN, INFORMATION AND DISCLOSURE ON THIS DRAWING OR COPIES ARE THE EXCLUSIVE CONFIDENTIAL PROPERTY OF SCOMI INTERNATIONAL. UNLESS OTHERWISE SPECIFIED, NO PART OF THIS DRAWING OR COPIES SHALL BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF SCOMI INTERNATIONAL. LIMITS TO THE USE OF THIS INFORMATION, SAFETY AND PROTECTIVE PURPOSES ONLY. THIS DRAWING AND ANY COPIES SHALL BE RETURNED TO SCOMI INTERNATIONAL LIMITED UPON REQUEST.	CHW BY: PDL DATE: 10/03/02 CHECKED BY: DATE: 10/03/02 APPROVED BY: DATE: 10/03/02 SCALE: NTS. 4000 DWS: D	JOB NO. 521S-014 REV. A

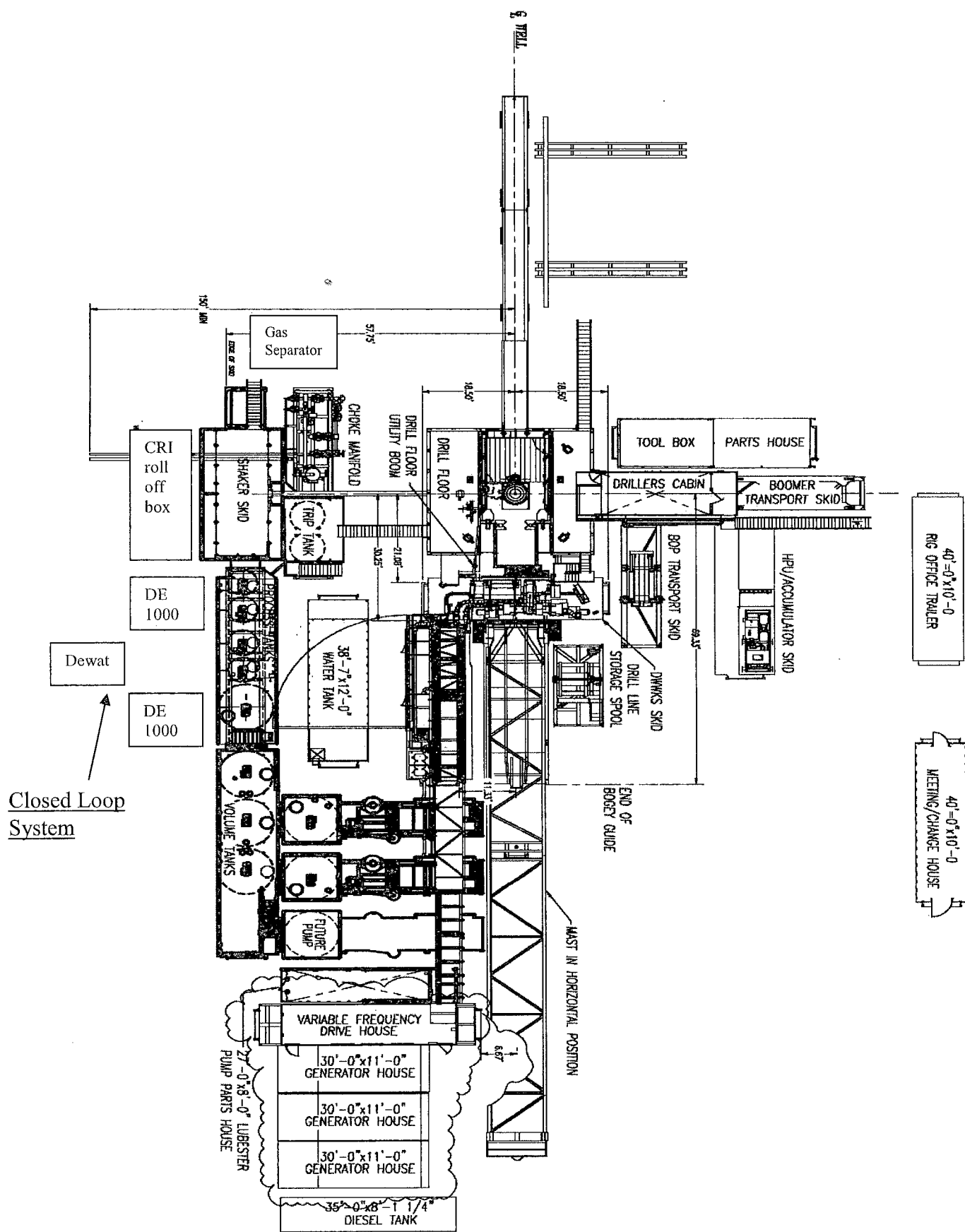
CLF2-7

BILL OF MATERIALS			
ITEM	QTY	DESCRIPTION	LENGTH



				1. ALL STRUCTURAL MATERIAL SHALL BE AISC - A36. 2. ALL PIPE SHALL BE MATERIAL SA 105 GR. B. 3. ALL FLANGES SHALL BE SORT. 150# MATERIAL SA 105. 4. ALL FITTINGS SHALL BE MATERIAL SA 204 GR. WPS. 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 2 OF 2	
				The design, fabrication and distribution of this drawing is subject to the customer's approval and acceptance. The customer shall be responsible for the design, fabrication and distribution of this drawing. The customer shall be responsible for the design, fabrication and distribution of this drawing.	DRAWN BY: DATE: 10/20/00 CHECKED BY: DATE: 10/20/00 APPROVED BY: DATE: 10/20/00 SEAL: NTS SIGN: D	JOB NO.: 521S-014 REV: A

CLE2-5





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.

CLF2-3