

HOBBS OCD

APR 22 2013

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
NNMM 86149

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No. 304935
RED TANK 26 FEDERAL #10H9. API Well No.
30-025-4112710. Field and Pool, or Exploratory
RED TANK; BONE SPRING (51683)11. Sec., T. R. M. or Blk. and Survey or Area
C, SEC 26, T22S, R32E12. County or Parish
LEA COUNTY, NM13. State
NM1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator OXY USA INC

3a. Address P.O. BOX 4294
HOUSTON, TX 772103b. Phone No. (include area code)
16696
713-513-6640

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 350' FNL & 2195' FWL

At proposed prod. zone 343' FSL & 2279' FWL

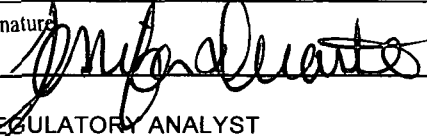
14. Distance in miles and direction from nearest town or post office*
51 MILES NORTHWEST OF JAL, NM15. Distance from proposed* 350'
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)16. No. of acres in lease
32017. Spacing Unit dedicated to this well
4018. Distance from proposed location* 350'
to nearest well, drilling, completed,
applied for, on this lease, ft.19. Proposed Depth
14071' MD / 9828' TVD20. BLM/BIA Bond No. on file
NMB000862
25800022621. Elevations (Show whether DF, KDB, RT, GL, etc.)
3709.4'22. Approximate date work will start*
10/15/201223. Estimated duration
32 DAYS

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature 
Title
REGULATORY ANALYSTName (Printed/Typed)
JENNIFER DUARTE (jennifer_duarte@oxy.com)Date
08/16/2012Approved by (Signature)
/s/George MacDonellName (Printed/Typed)
/s/George MacDonell

Date APR 19 2013

Title
FIELD MANAGEROffice
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)

SEE ATTACHED FOR
CONDITIONS OF APPROVALKZ 04/23/13
Approval Subject to General Requirements
& Special Stipulations Attached

Carlsbad Controlled Water Basin (page 2)

APR 24 2013

OXY USA Inc
Red Tank 26 Federal 10H
APD Data

OPERATOR NAME / NUMBER: OXY USA Inc
LEASE NAME / NUMBER: Red Tank 26 Federal 10H
STATE: NM COUNTY: Lea
SURFACE LOCATION: 350' FNL & 2195' FWL, Sec 26, T22S, R32E
BOTTOM HOLE LOCATION: 343' FSL & 2279' FWL, Sec. 26, T22S, R32E
C-102 PLAT APPROX GR ELEV: 3709.4' EST KB ELEV: 3733.4' (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 Tops	TV Depth Top	Expected Fluids
Rustler	979	-
Salado	1360	-
Lamar (B. Salt)	4793	-
Bell Canyon	4856	-
Brushy Canyon	6994	Oil
Bone Spring	8690	Oil
BSPG1 Target	9828	Oil

A. Fresh water has been found above the Rustler. The deepest water zone in the area has been found at 605' per New Mexico State Engineer map.

GREATEST PROJECTED TD 14071' MD/ 9828' TVD OBJECTIVE: 1st Bone Spring

3. CASING PROGRAM (All Casing is in **NEW CONDITION**)

Surface Casing: 13.375" casing set at ± 1025' MD/ 1025' TVD in a 17.5" hole filled with 8.60 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'-1025'	1025'	48	H-40	ST&C	770	1730	322	12.72	12.56	2.16	4.86	6.54

Intermediate Casing: 9 5/8" casing set at ± 4900' MD/ 4900' TVD in a 12.25" hole filled with 10 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'-4900'	4900'	40	J-55	LT&C	2570	3950	520	8.84	8.75	1.22	1.87	2.65

Production Casing: 5.5" casing set at ± 14071' MD / 9828' TVD in a 8.75" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0-14071'	14071'	17	N-80	BTC	6280	7740	397	4.89	4.77	1.31	2.02	1.84

Collapse and burst loads calculated using Stress Check with actual anticipated loads.

4. CEMENT PROGRAM:

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /s k	24 Hr Comp
Surface (TOC: 0')							
Tail: 0' – 789' (165% Excess)	840	789	Premium Plus cement with 2% Calcium Chloride - Flake, 4% Bentonite, 0.25 lbm/sk Poly-E-Flake	9.16	13.5	1.75	589psi
Tail: 789' – 1025' (165% Excess)	350	236	Premium Plus cement with 2% Calcium Chloride - Flake	6.37	14.8	1.35	1608psi

Intermediate (TOC: 0')							
Lead: 0' – 4098' (105 % Excess)	1260	4098	Light Premium Plus cement with 1% Calcium Chloride - Flake, 0.5% Halad®-344, 0.125 lbm/sk Poly-E- Flake, 3 lbm/sk Kol-Seal, 5 % Salt	9.98	12.9	1.91	734 psi
Tail: 4098' – 4900' (105% Excess)	400	802	Premium Plus cement with 0.5% Well Life 734	6.36	14.8	1.33	2125 psi
Production (TOC: 9000') Stage 1 DV Tool – 9000'							
Lead: 9000–14071 (85 % Excess)	1330	5071	Super H Cement– 0.5% Halad®-344, 0.4% CFR-3, 3 lbm/sk Kol-Seal, 0.125 lbm/sk Poly-E-Flake, 0.3% HR-601, 1lbm/sk Salt	8.26	13.20	1.63	1275 psi
Production (TOC: 4950') Stage 2 PO Stage Tool – 4950'							
Lead: 4950' – 8351' (125 % Excess)	830	3401	Light Premium – 3 lbm/sk Salt, 3lbm/sk Kol-Seal, 0.4% HR-601	11.76	12.40	2.12	283 psi
Tail: 8351' – 9000' (125% Excess)	250	649	Premium Plus cement	6.49	14.80	1.34	1907 psi
Production (TOC: 0') Stage 3							
Lead: 0' – 4315' (10 % Excess)	600	4315	Light Premium Plus – 3 lbm/sk Salt	11.67	12.40	2.08	511 psi
Tail: 4315' – 4950' (10% Excess)	150	635	Premium Plus cement with 2% Calcium Chloride	6.39	14.80	1.35	2025 psi

Description of Cement Additives: Bentonite (Light Weight Additive), Poly-E-Flake (Lost Circulation Additive), Calcium Chloride – Flake (Accelerator), Kol-Seal (Lost Circulation Additive), Well Life 734 (Cement Enhancer), Halad®-344 (Low Fluid Loss Control), CFR – 3 (Dispersant), HR – 601 (Retarder)

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 1025' None.

Intermediate: 0 - 4900' Intermediate hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 10M Choke Manifold.

Production: 0 – 14071' Production hole will be drilled with a 13 5/8" 10M three ram stack w/ 5M annular preventer, & 10M Choke Manifold. Oxy requires the use of a 5M BOP stack for this well.

- a. 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 13 3/8" casing shoe. Wellhead pressure rating will support this test and 13 3/8" casing will be protected from high pressure. Since the wellhead system is a multibowl design, this initial test will cover the requirements prior to drilling out the 9 5/8" casing shoe.
- b. Pipe rams will be operated and checked each 24 hour period and 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. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5,000 psi WP rating. Oxy requests that the system be tested at 5,000 psi WP rating.
- c. Oxy also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose made by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose rated to 5,000 psi working pressure. It has been tested to 10,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps. Please see attached certifications.
- d. See attached BOP & Choke manifold diagrams.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 1025'	8.4 – 8.6	32 – 34	NC	Fresh Water /Spud Mud
1025' – 4900' <i>4900'</i>	9.8 – 10.0	28 – 29	NC	Brine Water
4900' – 9000'	8.6 – 8.8	28 - 29	NC	Brine Water
9000' – TD'	8.8 – 9.2	50 - 50	8 - 15	LSND

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. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM

9. LOGGING / CORING AND TESTING PROGRAM:

See COA

- A. Mud Logger: Base of Intermediate Casing to TD.
- B. DST's: None.
- C. Open Hole Logs as follows: GR-NEU-DEN-RES from curve to surface. MWD-GR from kick-off point to TD.

10. POTENTIAL HAZARDS:

- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The bottomhole pressure is anticipated to be **4600 psi**.
- C. No abnormal temperatures or pressures are anticipated. **The highest anticipated pressure gradient is 0.47 psi/ft.** 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.

11. 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 35 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

12. COMPANY PERSONNEL:

Name	Title	Office Phone	Mobile Phone
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
Douglas Chester	Drilling Manager	713-366-9124	713-918-9124



Weatherford[®]

Drilling Services

Proposal



OCCIDENTAL PERMIAN LTD.

RED TANK 26 FED #10H

LEA CO., NEW MEXICO

WELL FILE: **PLAN 2**

APRIL 23, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

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www.weatherford.com



Red Tank 26 Fed #10H Lea Co, New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	178.56	0.00	0.00	0.00	0.00	0.00	0.00	
2	9072.24	0.00	178.56	9072.24	0.00	0.00	0.00	0.00	0.00	
3	10189.86	89.41	178.56	9788.40	-708.59	17.85	8.00	178.56	708.82	
4	14071.40	89.41	178.56	9828.40	-4588.70	115.60	0.00	0.00	4590.16	PBHL

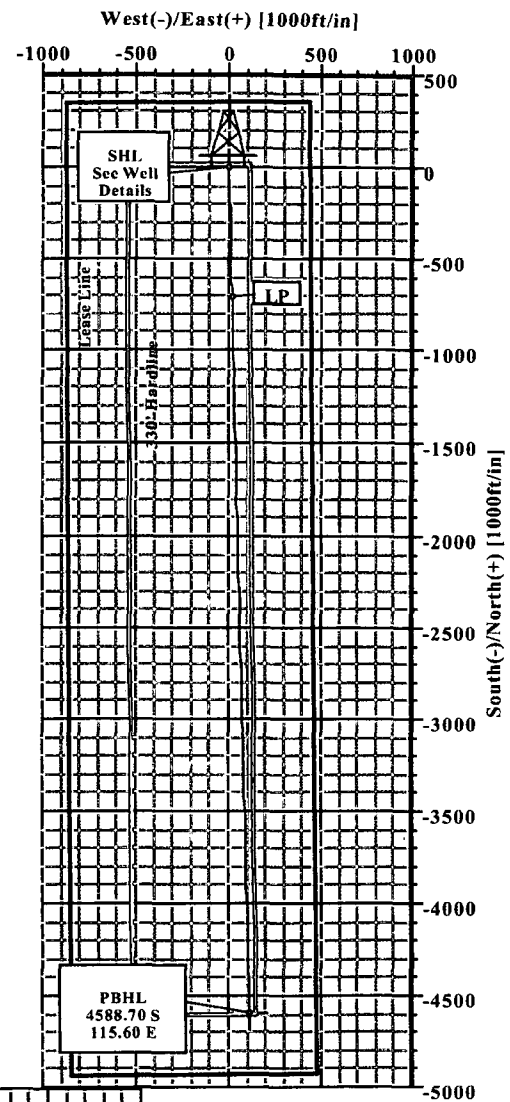
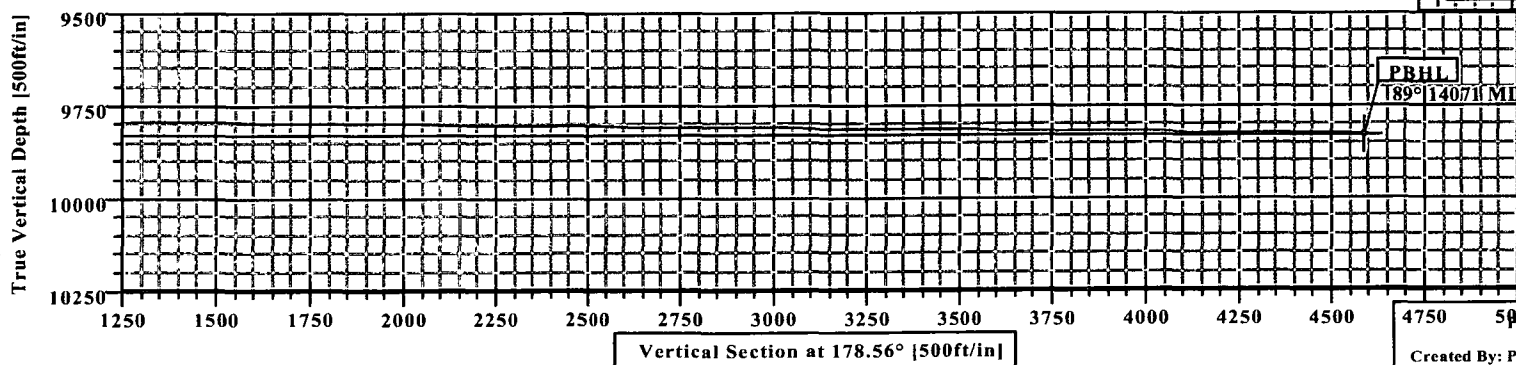
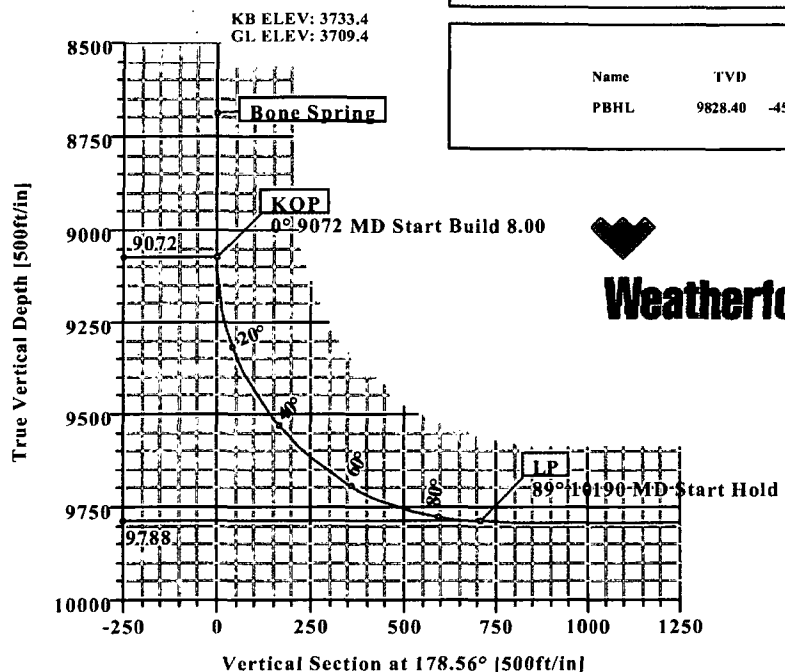
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Red Tank 26 Fed #10H	0.00	0.00	498607.70	712089.40	32°22'08.100N	103°38'47.057W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9828.40	-4588.70	115.60	494019.00	712205.00	Point

SITE DETAILS
 Red Tank 26 Fed #10H
 Site Centre Northing: 498607.70
 Easting: 712089.40
 Ground Level: 3709.40
 Positional Uncertainty: 0.00
 Convergence: 0.37

FIELD DETAILS
 Lea Co, New Mexico (Nad 27)
 Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: New Mexico, Eastern Zone
 Magnetic Model: IGRF2010
 System Datum: Mean Sea Level
 Local North: Grid North

LEGEND
 1 Plan #2
 2 Plan #2





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WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 4/23/2012	Time: 10:41:22	Page: 1
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference: Well: Red Tank 26 Fed #10H, Grid North		
Site: Red Tank 26 Fed #10H	Vertical (TVD) Reference: SITE 3733.4		
Well: Red Tank 26 Fed #10H	Section (VS) Reference: Well (0.00N,0.00E,178.56Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #2	Date Composed: 4/23/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Lea Co, New Mexico (Nad 27)

Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Red Tank 26 Fed #10H

Site Position:	Northing: 498607.70 ft	Latitude: 32 22 8.100 N
From: Map	Easting: 712089.40 ft	Longitude: 103 38 47.057 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3709.40 ft		Grid Convergence: 0.37 deg

Well: Red Tank 26 Fed #10H	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 498607.70 ft
+E/-W 0.00 ft	Easting: 712089.40 ft
Position Uncertainty: 0.00 ft	Latitude: 32 22 8.100 N
	Longitude: 103 38 47.057 W

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 11/1/2012	Above System Datum: Mean Sea Level
Field Strength: 48583 nT	Declination: 7.46 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.27 deg
ft	+N/-S
	ft
0.00	0.00
	0.00
	178.56

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	178.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9072.24	0.00	178.56	9072.24	0.00	0.00	0.00	0.00	0.00	0.00	
10189.86	89.41	178.56	9788.40	-708.59	17.85	8.00	8.00	0.00	178.56	
14071.40	89.41	178.56	9828.40	-4588.70	115.60	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
9000.00	0.00	178.56	9000.00	0.00	0.00	0.00	0.00	498607.70	712089.40	KOP
9072.24	0.00	178.56	9072.24	0.00	0.00	0.00	0.00	498607.70	712089.40	
9100.00	2.22	178.56	9099.99	-0.54	0.01	0.54	8.00	498607.16	712089.41	
9150.00	6.22	178.56	9149.85	-4.22	0.11	4.22	8.00	498603.48	712089.51	
9200.00	10.22	178.56	9199.32	-11.36	0.29	11.37	8.00	498596.34	712089.69	
9250.00	14.22	178.56	9248.18	-21.94	0.55	21.95	8.00	498585.76	712089.95	
9300.00	18.22	178.56	9296.18	-35.90	0.90	35.91	8.00	498571.80	712090.30	
9350.00	22.22	178.56	9343.09	-53.17	1.34	53.19	8.00	498554.53	712090.74	
9400.00	26.22	178.56	9388.68	-73.68	1.86	73.70	8.00	498534.02	712091.26	
9450.00	30.22	178.56	9432.73	-97.31	2.45	97.34	8.00	498510.39	712091.85	
9500.00	34.22	178.56	9475.02	-123.95	3.12	123.99	8.00	498483.75	712092.52	
9550.00	38.22	178.56	9515.35	-153.48	3.87	153.53	8.00	498454.22	712093.27	
9600.00	42.22	178.56	9553.52	-185.75	4.68	185.81	8.00	498421.95	712094.08	
9650.00	46.22	178.56	9589.34	-220.61	5.56	220.68	8.00	498387.09	712094.96	
9700.00	50.22	178.56	9622.65	-257.87	6.50	257.95	8.00	498349.83	712095.90	
9750.00	54.22	178.56	9653.27	-297.37	7.49	297.47	8.00	498310.33	712096.89	
9800.00	58.22	178.56	9681.07	-338.91	8.54	339.02	8.00	498268.79	712097.94	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Red Tank 26 Fed #10H
Well: Red Tank 26 Fed #10H
Wellpath: 1

Date: 4/23/2012 Time: 10:41:22 Page: 2
Co-ordinate(NE) Reference: Well: Red Tank 26 Fed #10H, Grid North
Vertical (TVD) Reference: SITE 3733.4
Section (VS) Reference: Well (0.00N,0.00E,178.56Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

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
9850.00	62.22	178.56	9705.89	-382.28	9.63	382.40	8.00	498225.42	712099.03	
9900.00	66.22	178.56	9727.64	-427.28	10.76	427.42	8.00	498180.42	712100.16	
9950.00	70.22	178.56	9746.18	-473.69	11.93	473.84	8.00	498134.01	712101.33	
10000.00	74.22	178.56	9761.45	-521.28	13.13	521.44	8.00	498086.42	712102.53	
10050.00	78.22	178.56	9773.35	-569.81	14.35	569.99	8.00	498037.89	712103.75	
10100.00	82.22	178.56	9781.84	-619.06	15.60	619.26	8.00	497988.64	712105.00	
10150.00	86.22	178.56	9786.88	-668.78	16.85	668.99	8.00	497938.92	712106.25	
10189.86	89.41	178.56	9788.40	-708.59	17.85	708.82	8.00	497899.11	712107.25	LP
10200.00	89.41	178.56	9788.50	-718.73	18.11	718.96	0.00	497888.97	712107.51	
10300.00	89.41	178.56	9789.53	-818.69	20.62	818.95	0.00	497789.01	712110.02	
10400.00	89.41	178.56	9790.56	-918.66	23.14	918.95	0.00	497689.04	712112.54	
10500.00	89.41	178.56	9791.59	-1018.62	25.66	1018.94	0.00	497589.08	712115.06	
10600.00	89.41	178.56	9792.62	-1118.58	28.18	1118.94	0.00	497489.12	712117.58	
10700.00	89.41	178.56	9793.65	-1218.55	30.70	1218.93	0.00	497389.15	712120.10	
10800.00	89.41	178.56	9794.68	-1318.51	33.22	1318.93	0.00	497289.19	712122.62	
10900.00	89.41	178.56	9795.72	-1418.47	35.73	1418.92	0.00	497189.23	712125.13	
11000.00	89.41	178.56	9796.75	-1518.44	38.25	1518.92	0.00	497089.26	712127.65	
11100.00	89.41	178.56	9797.78	-1618.40	40.77	1618.91	0.00	496989.30	712130.17	
11200.00	89.41	178.56	9798.81	-1718.36	43.29	1718.91	0.00	496889.34	712132.69	
11300.00	89.41	178.56	9799.84	-1818.32	45.81	1818.90	0.00	496789.38	712135.21	
11400.00	89.41	178.56	9800.87	-1918.29	48.33	1918.90	0.00	496689.41	712137.73	
11500.00	89.41	178.56	9801.90	-2018.25	50.84	2018.89	0.00	496589.45	712140.24	
11600.00	89.41	178.56	9802.93	-2118.21	53.36	2118.88	0.00	496489.49	712142.76	
11700.00	89.41	178.56	9803.96	-2218.18	55.88	2218.88	0.00	496389.52	712145.28	
11800.00	89.41	178.56	9804.99	-2318.14	58.40	2318.87	0.00	496289.56	712147.80	
11900.00	89.41	178.56	9806.02	-2418.10	60.92	2418.87	0.00	496189.60	712150.32	
12000.00	89.41	178.56	9807.05	-2518.06	63.44	2518.86	0.00	496089.64	712152.84	
12100.00	89.41	178.56	9808.08	-2618.03	65.95	2618.86	0.00	495989.67	712155.35	
12200.00	89.41	178.56	9809.11	-2717.99	68.47	2718.85	0.00	495889.71	712157.87	
12300.00	89.41	178.56	9810.14	-2817.95	70.99	2818.85	0.00	495789.75	712160.39	
12400.00	89.41	178.56	9811.17	-2917.92	73.51	2918.84	0.00	495689.78	712162.91	
12500.00	89.41	178.56	9812.21	-3017.88	76.03	3018.84	0.00	495589.82	712165.43	
12600.00	89.41	178.56	9813.24	-3117.84	78.55	3118.83	0.00	495489.86	712167.95	
12700.00	89.41	178.56	9814.27	-3217.81	81.06	3218.83	0.00	495389.89	712170.46	
12800.00	89.41	178.56	9815.30	-3317.77	83.58	3318.82	0.00	495289.93	712172.98	
12900.00	89.41	178.56	9816.33	-3417.73	86.10	3418.82	0.00	495189.97	712175.50	
13000.00	89.41	178.56	9817.36	-3517.69	88.62	3518.81	0.00	495090.01	712178.02	
13100.00	89.41	178.56	9818.39	-3617.66	91.14	3618.81	0.00	494990.04	712180.54	
13200.00	89.41	178.56	9819.42	-3717.62	93.66	3718.80	0.00	494890.08	712183.06	
13300.00	89.41	178.56	9820.45	-3817.58	96.17	3818.79	0.00	494790.12	712185.57	
13400.00	89.41	178.56	9821.48	-3917.55	98.69	3918.79	0.00	494690.15	712188.09	
13500.00	89.41	178.56	9822.51	-4017.51	101.21	4018.78	0.00	494590.19	712190.61	
13600.00	89.41	178.56	9823.54	-4117.47	103.73	4118.78	0.00	494490.23	712193.13	
13700.00	89.41	178.56	9824.57	-4217.44	106.25	4218.77	0.00	494390.26	712195.65	
13800.00	89.41	178.56	9825.60	-4317.40	108.77	4318.77	0.00	494290.30	712198.17	
13900.00	89.41	178.56	9826.63	-4417.36	111.28	4418.76	0.00	494190.34	712200.68	
14000.00	89.41	178.56	9827.66	-4517.32	113.80	4518.76	0.00	494090.38	712203.20	
14071.40	89.41	178.56	9828.40	-4588.70	115.60	4590.16	0.00	494019.00	712205.00	PBHL



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Red Tank 26 Fed #10H
Well: Red Tank 26 Fed #10H
Wellpath: 1

Date: 4/23/2012 **Time:** 10:41:22 **Page:** 3
Co-ordinate(NE) Reference: Well: Red Tank 26 Fed #10H, Grid North
Vertical (TVD) Reference: SITE 3733.4
Section (VS) Reference: Well (0.00N,0.00E,178.56Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL			9828.40	-4588.70	115.60	494019.00	712205.00	32 21 22.685 N	103 38 46.053 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1025.00	1025.00	0.000	0.000	Csg
4900.00	4900.00	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
9072.24	9072.24	KOP
10189.86	9788.40	LP
14071.40	9828.40	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1360.00	1360.00	Base Salt		0.00	0.00
4793.00	4793.00	Base Anhydrite		0.00	0.00
4856.00	4856.00	Bell Canyon		0.00	0.00
6994.00	6994.00	Brushy Canyon		0.00	0.00
8690.00	8690.00	Bone Spring		0.00	0.00

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: April 19, 2012
Job Number: _____
Customer: Occidental Permian Ltd.
Well Name: Red Tank 26 Fed #10H
API Number: _____
Rig Name: _____
Location: Lea Co, New Mexico (Nad 27)
Block: _____
Engineer: Patrick Rudolph

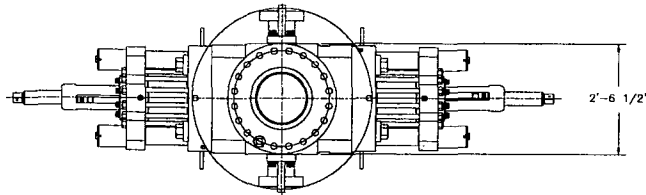
US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 498607.700 USFT	Latitude 32.3689165 DEG
East/West 712089.400 USFT	Longitude -103.6464047 DEG
Grid Convergence: .37°	
Total Correction: +7.09°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.36892° N	32° 22 min 8.099 sec
Longitude =	103.64640° W	103° 38 min 47.057 sec

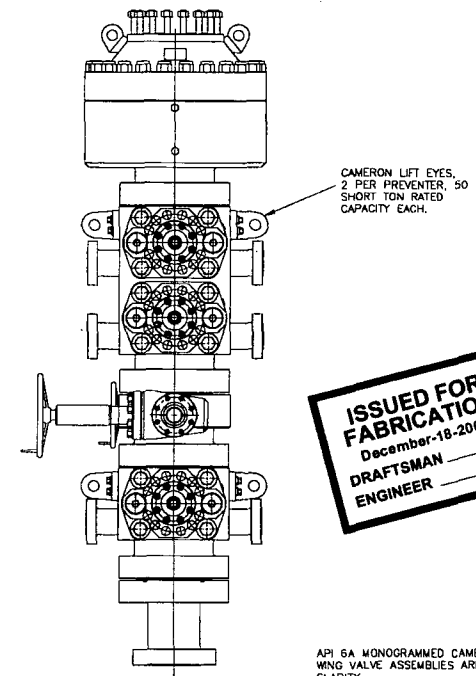
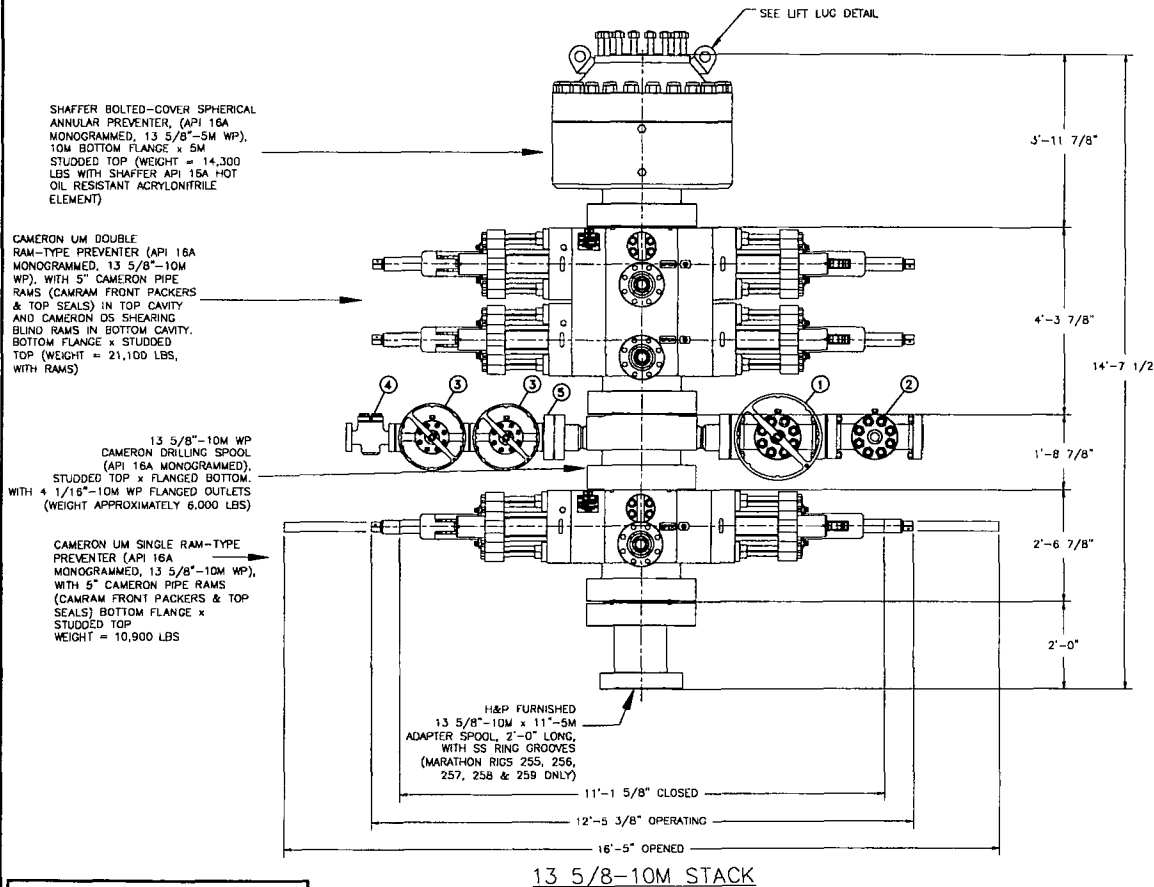
Magnetic Declination =	7.46°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6673
Local Field Strength =	48579 nT	Magnetic Vector X = 23884 nT
Magnetic Dip =	60.27°	Magnetic Vector Y = 3129 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42186 nT
Spud Date =	Nov 01, 2012	Magnetic Vector H = 24088 nT

Signed: _____

Date: _____



- 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



ISSUED FOR FABRICATION
December-18-2007
DRAFTSMAN
ENGINEER

API 6A MONOGRAMMED CAMERON CHOKE AND KILL WING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY

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

PROPRIETARY

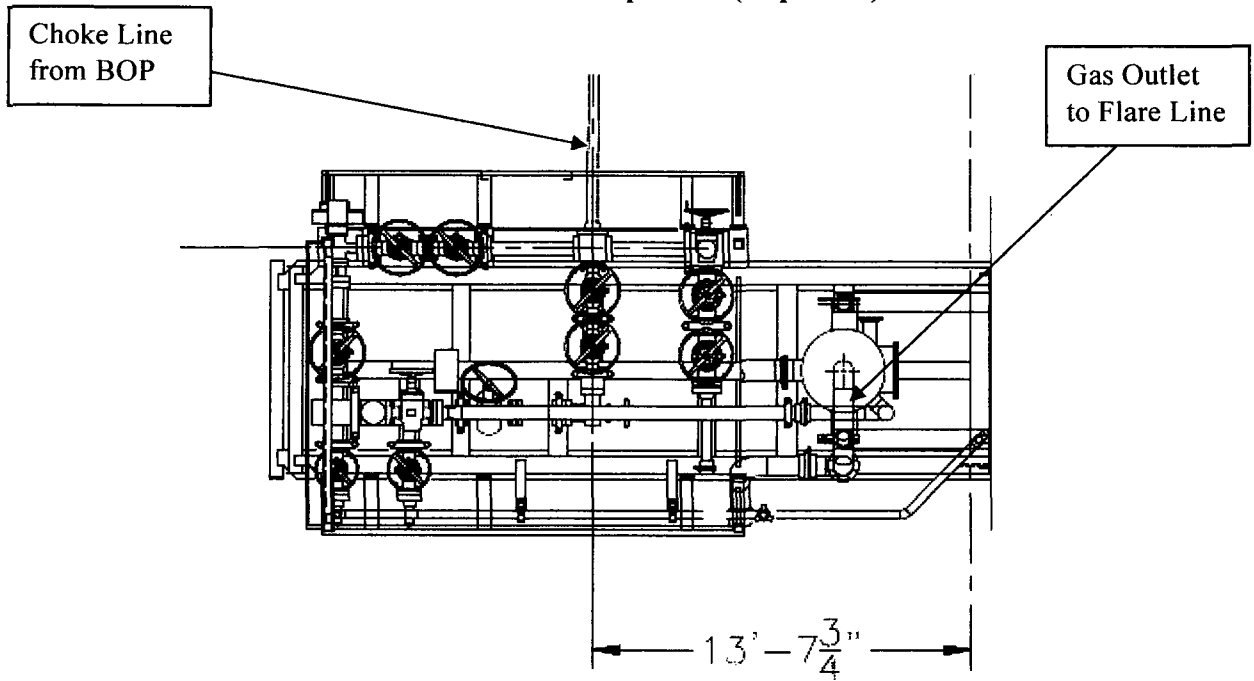
THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER, WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

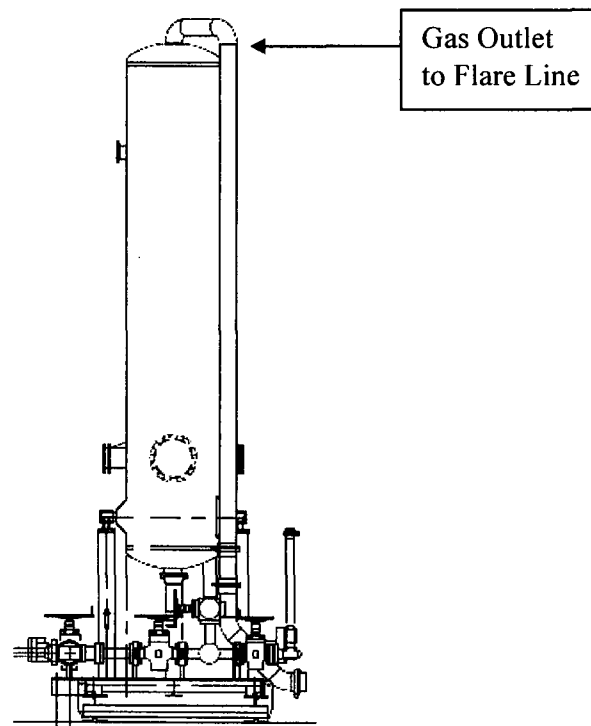
ENGINEERING APPROVAL		DATE	TITLE
12/18/07	ADDED SHEET 03	JAV	13 5/8"-10M BOP 3 RAM STACK FLEXRIG3
4-10-07	ORIGINATOR REVISED DOUBLE STUDDED ADAPTER VALVES 1, 2, 3, 4 AND NO CHECK VALVE ADDED	JBG	CUSTOMER: H&P
4-04-07	5" ADDED TO SPACER ADAPTER SPOOL	JBG	PROJECT: FLEXRIG3
02-07-07	ADDED ADAPTER SPOOL	MWL	DRAWN: MTS
08-13-02	CORRECTED BOP STACK	MWL	DATE: 6-5-02
REV	DATE	DESCRIPTION	BY
SCALE: 3/4"=1'			
SHEET: 1 OF 1			

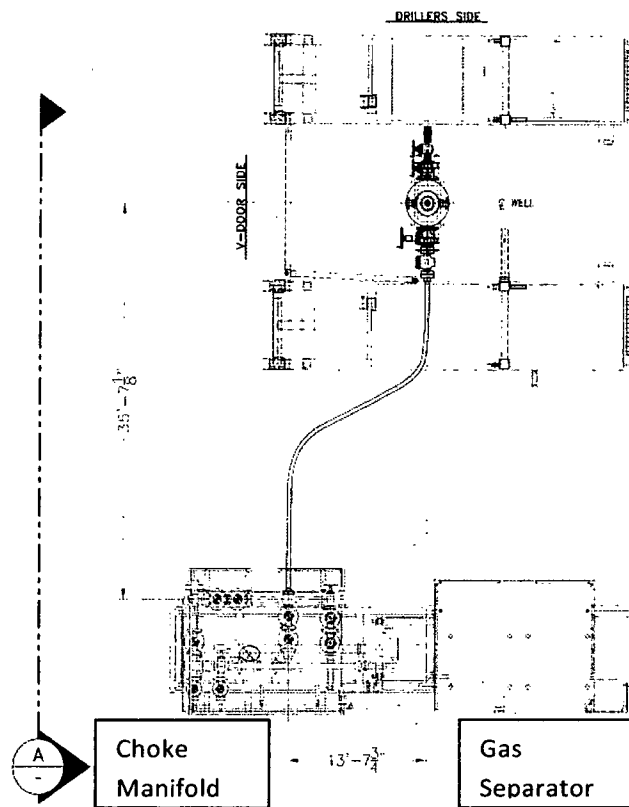
210-P1-07 E

Choke Manifold – Gas Separator (Top View)



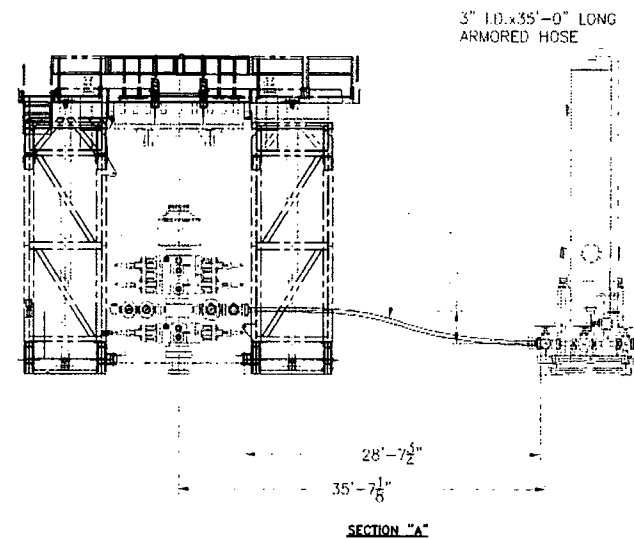
Choke Manifold – Gas Separator (Side View)





PLAN VIEW

→ To Shakers



SECTION "A"

**ISSUED FOR
FABRICATION**
December-19-2007
DRAFTSMAN _____
ENGINEER _____

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

**CHOKE LINE SYSTEM
FLEXRIG3**

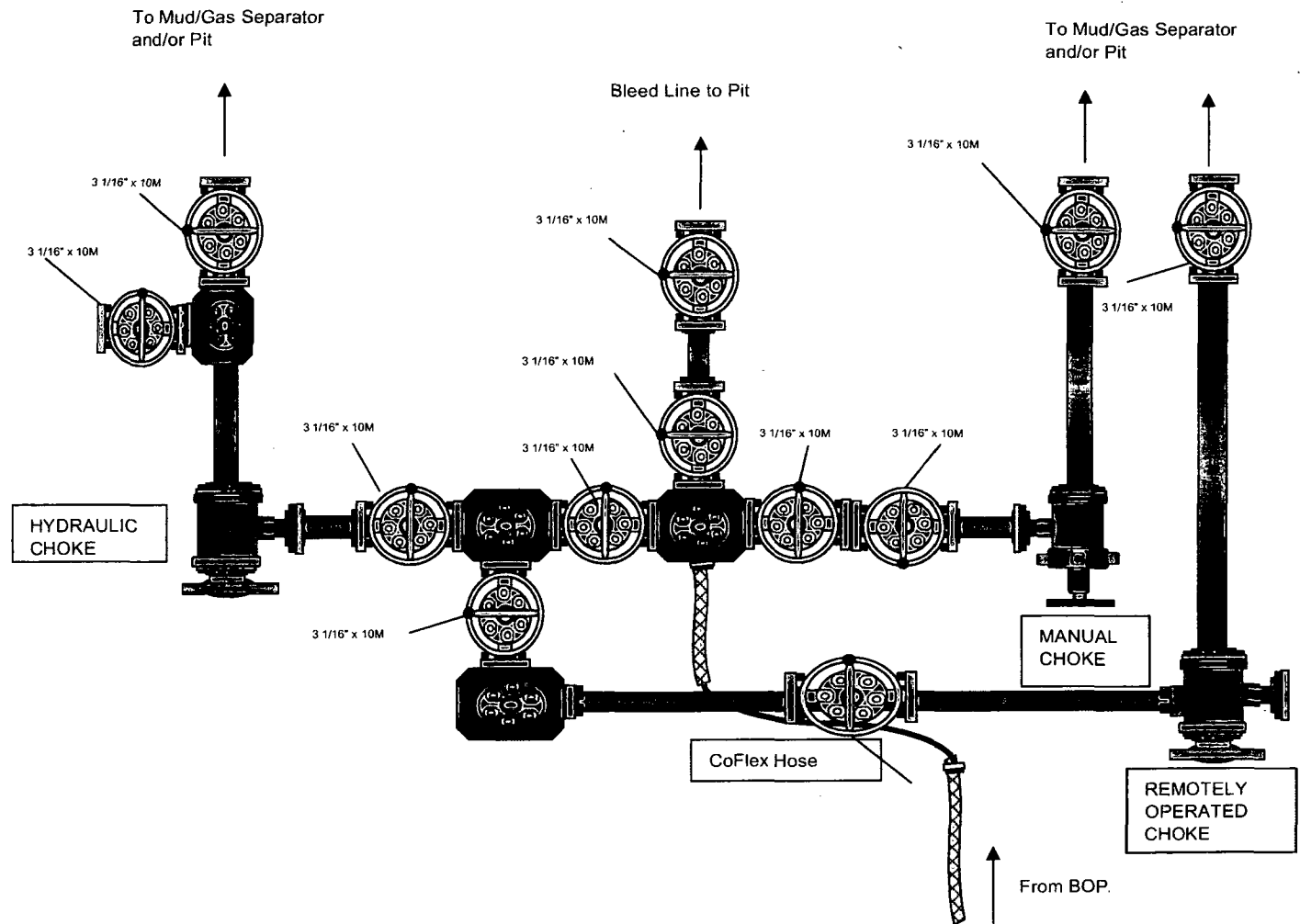
CUSTOMER: _____
PROJECT: _____
DRAWN: JBC DATE: 4-10-07 DWG. NO.: 210-P1-07
SCALE: 3/16"=1' SHEET: 2 OF A

PROPRIETARY

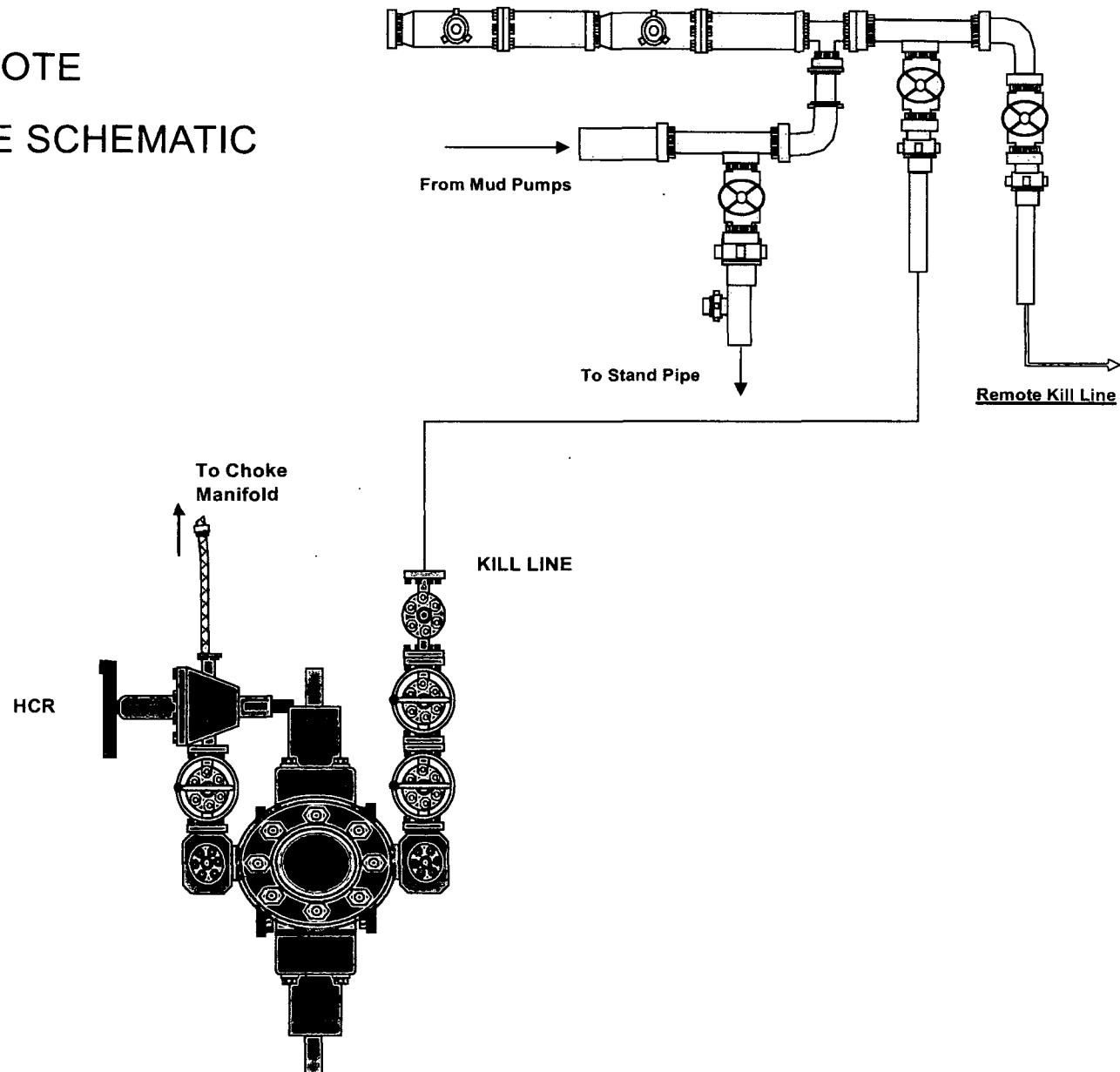
THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED
IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE
REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER,
WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHORIZED
OFFICER OF HELMERICH & PAYNE INTL. DRILLING CO.

ENGINEERING APPROVAL		DATE	TITLE
△			
△			
△			
△			
12/18/07	REMOVED SHEET TOTAL CALLOUT	JAV	DRAWN: JBC DATE: 4-10-07 DWG. NO.: 210-P1-07
REV	DATE	DESCRIPTION	BY

10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL LINE SCHEMATIC



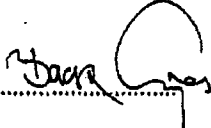
CERTIFICATE OF CONFORMITY

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 : 

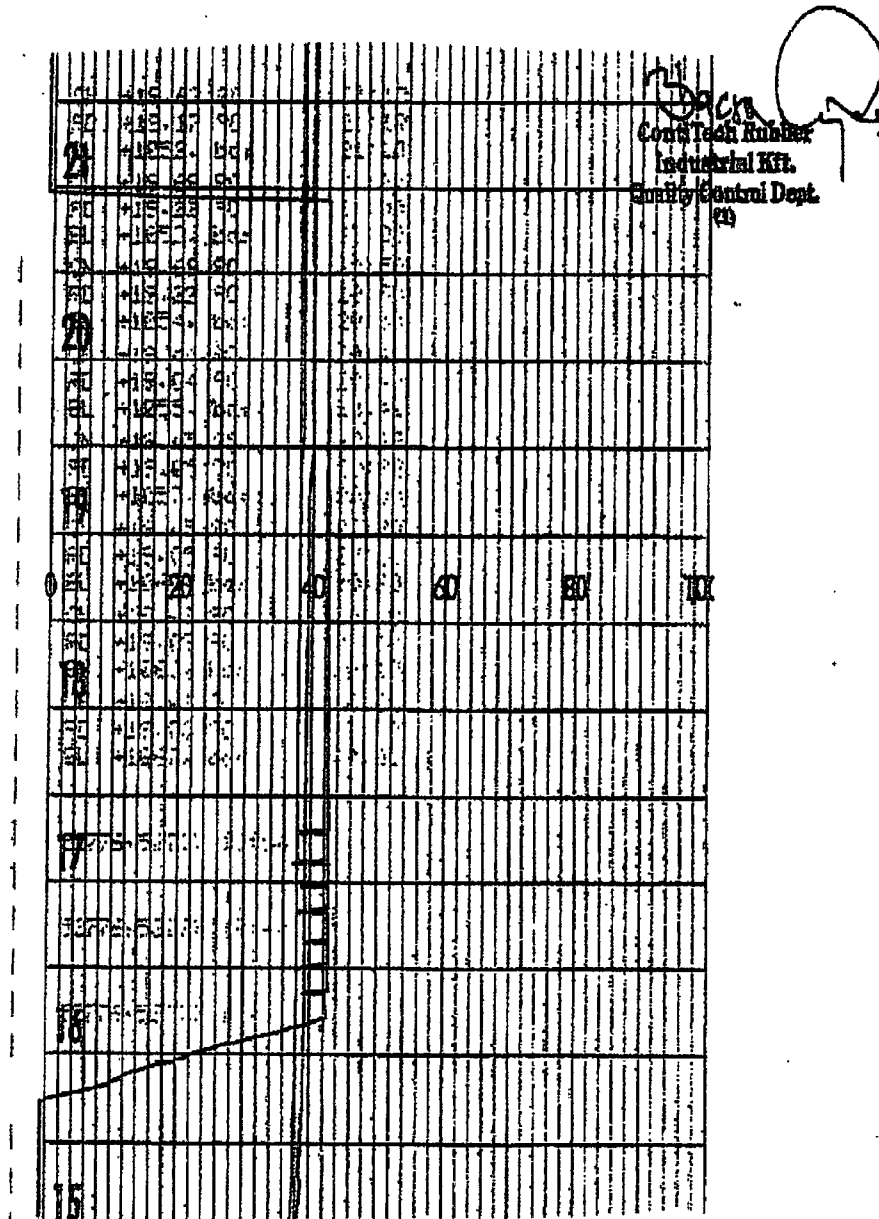
Position: Q.C. Manager

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

Date: 04. April. 2008

Coflex Hose Certification

Page: 1/1



[illegible]

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

05/23/09

Coffex Hose Certification

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittonmoore 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 68X Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 68X 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



Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 746	
PURCHASER: Phoenix Beattie Co.				P.O. N°: 002491	
CONTITECH ORDER N°: 412838		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					



Phoenix Beattie Corp

11535 Brittanore 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	DOCERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	DOCERT-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.

Closed Loop System

Dewat

DE 1000

DE 1000

27'-0"x8'-0" LUBRICANT
PUMP PARTS HOUSE

30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE

35'-0"x8'-1 1/4" DIESEL TANK

38'-7"x12'-0" WATER TANK

TRIP TANK

CHOKE MANIFOLD

SHAKER SKID

CRI roll off box

Gas Separator

DRILL FLOOR
UTILITY BOOM

DRILL FLOOR

END OF BOGEY GUIDE

MAST IN HORIZONTAL POSITION

DRILL LINE STORAGE SPOOL

BOP TRANSPORT SKID

DRILLERS CABIN

TOOL BOX

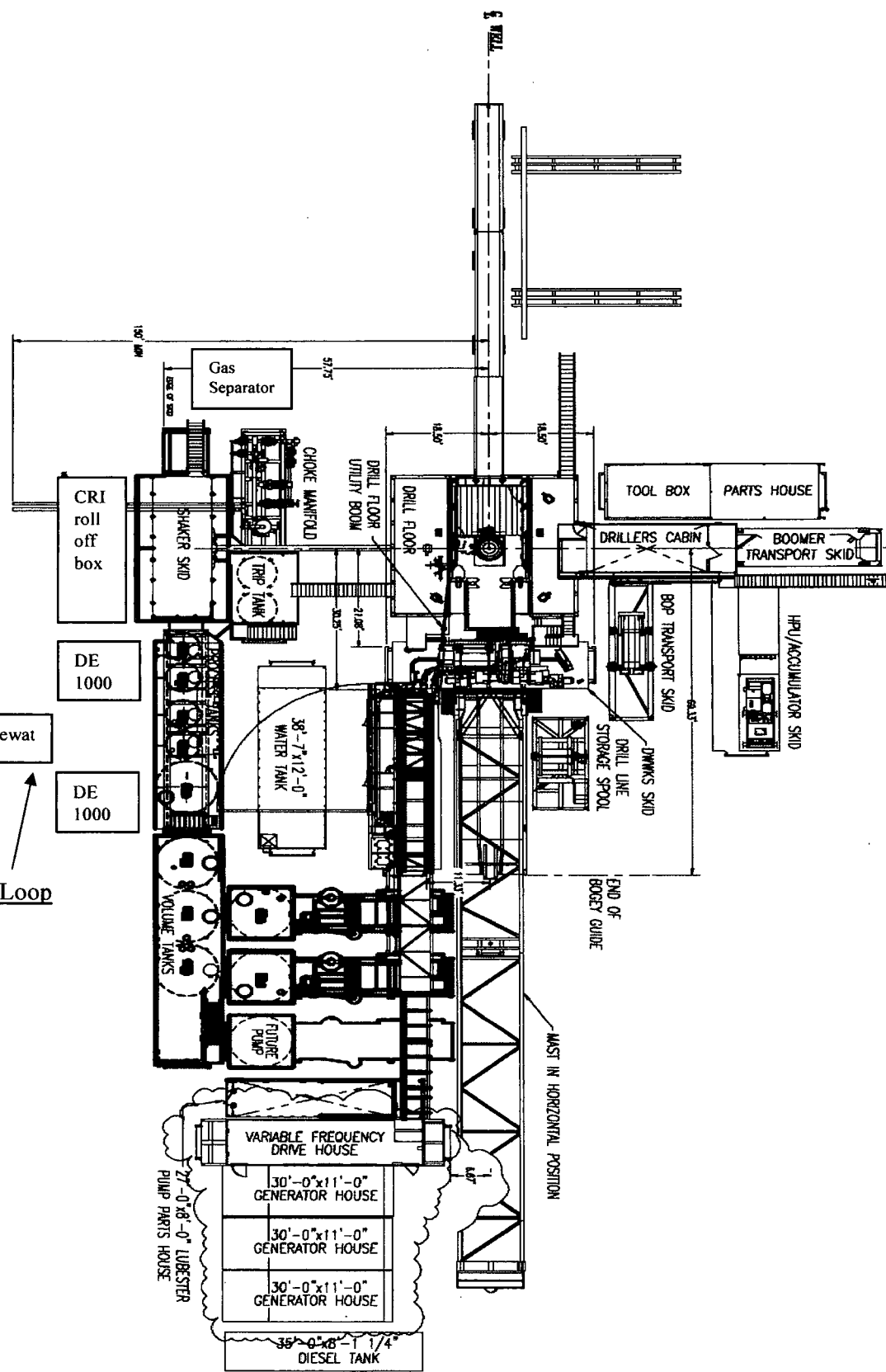
PARTS HOUSE

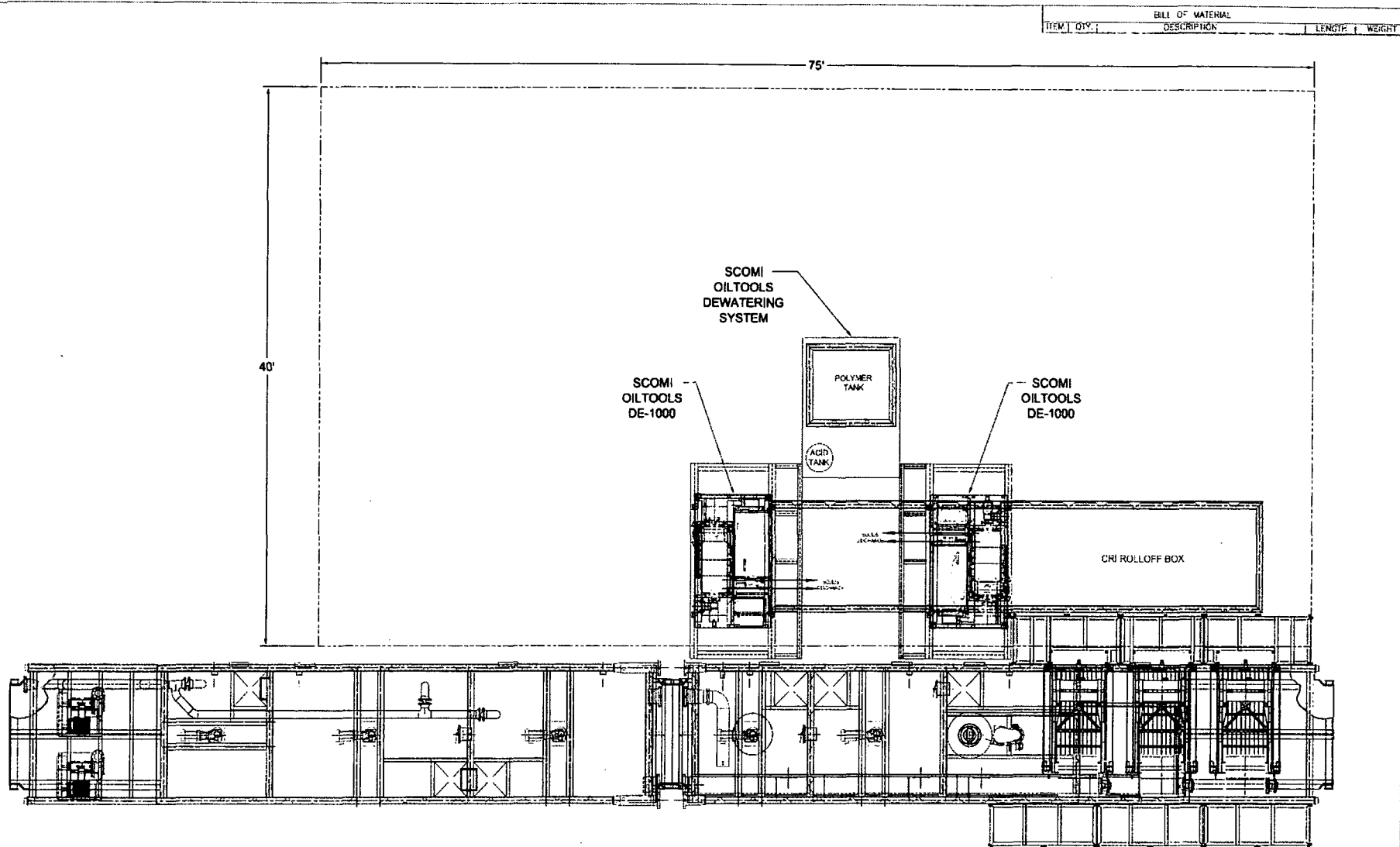
HPU/ACCUMULATOR SKID

BOOMER TRANSPORT SKID

40'-0"x10'-0" RIG OFFICE TRAILER

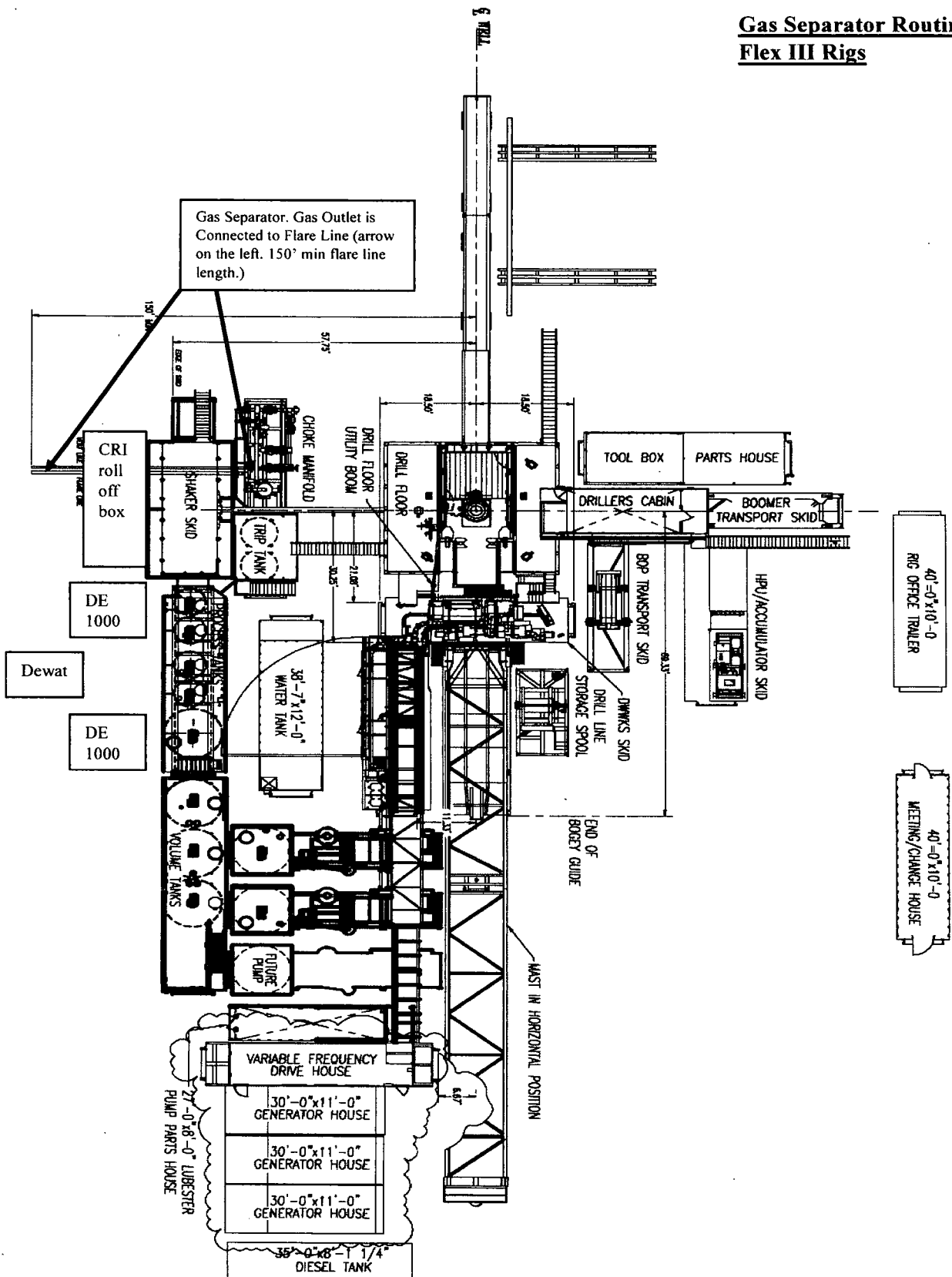
40'-0"x10'-0" MEETING/CHANGE HOUSE





										1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36.										TITLE: 1										CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&P - FLEX RIGS / PG 1 OF 2 Scorm 651 N. Sam Houston Parkway East, Suite 300, Houston, Texas 77060 PHONE: (281)-358-8016, FAX: (281)-358-6969																																																																					
										2. ALL PIPE SCH. 40 MATERIAL SA 105 Gr. B.										DRAWN BY: DATE: 10/30/02																				CHECKED BY: DATE:																																																											
										3. ALL FLANGES SHALL BE 5000, 1500 & MATERIAL SA 105.										APPROVED: DATE: NTS										SCALE: 1" = 10'										REV: D										JOB NO: 521S-014										REV: A																																							
										4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA 234 Gr. W19.																																																																																									
										5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API-650.																																																																																									
										The drawings, information and disclosures on this drawing or copies are the exclusive confidential property of Scorm International Limited and are not to be reproduced or disclosed to others by any means, in any format, or transmitted, or translated into a machine language or used for manufacture or other purpose without the written permission of Scorm International Limited. In receipt of such permission, solely and directly for the purposes permitted. This drawing and any copies shall be returned to Scorm International Limited when required.																																																																																									
A. ADDED PAGE 2 TO SHOW H&P										REV: D										DATE: 10/30/02																																																																															

Gas Separator Routing Flex III Rigs





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.