

HOBBS OCD

Form 3160-3
(March 2012)MAY 16 2013
OCD HobbsFORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

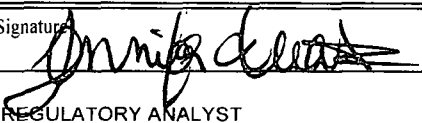
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM 69377
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. <304936> RED TANK 28 FEDERAL #5H
3b. Phone No. (include area code) 713-513-6640		9. API Well No. 30-225-41189
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 295' FNL & 880' FEL At proposed prod. zone 330' FSL & 912' FEL		10. Field and Pool, or Explorator <51689> West Red Tank / Delaware
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk and Survey or Area A, SEC 28, T22S, R32E
15. Distance from proposed* 295' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 320	12. County or Parish LEA COUNTY, NM
17. Spacing Unit dedicated to this well 160	18. Distance from proposed location* 100' to nearest well, drilling, completed, applied for, on this lease, ft.	13. State NM
19. Proposed Depth 12767' MD / 8418' TVD	20. BLM/BIA Bond No. on file NMB000862 / ESB00226	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3623.7'	22. Approximate date work will start* 01/23/2013	23. Estimated duration 30 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 9/12/12
Title REGULATORY ANALYST		
Approved by (Signature) /s/George MacDonell	Name (Printed/Typed)	Date MAY 13 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)

Carlsbad Controlled Water Basin

K2
09/22/13Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAY 23 2013

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

RE: Red Tank "28" Federal #5H
Section 28, T22S-R32E
Lea County, New Mexico

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

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

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

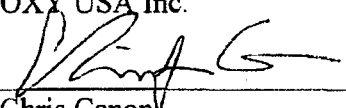
LEASE NO.: NMNM 69377 (320 Acres)

LEGAL DESCRIPTION: SL: 295' FNL & 880' FEL NENE
PBHL: 330' FSL & 912' FEL SESE
Section 28 T22S-R32E
Lea County, New Mexico

FORMATIONS: Brushy Canyon

BOND COVERAGE: Individual and Nationwide

BLM BOND FILE NO.: NMB000862 (Individual), ESB000226 (Nationwide)

AUTHORIZED SIGNATURE: OXY USA Inc.

Chris Canon

TITLE: Land Negotiator

DATE: September 4, 2012

OXY USA Inc
Red Tank 28 Federal 5H
APD Data

OPERATOR NAME / NUMBER: OXY USA Inc
LEASE NAME / NUMBER: Red Tank 28 Federal 5H
STATE: NM COUNTY: Lea
SURFACE LOCATION: 295' FNL & 880' FEL, Sec 28, T22S, R32E
BOTTOM HOLE LOCATION: 330' FSL & 912' FEL, Sec. 28, T22S, R32E
C-102 PLAT APPROX GR ELEV: 3623.7' EST KB ELEV: 3647.7' (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	844	-
Salado	1303	-
Lamar (B. Anhydrite)	4628	-
Bell Canyon	4723	-
Brushy Canyon	6846	Oil
Brushy Canyon A4	8418	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 12767' MD/ 8418' TVD OBJECTIVE: Brushy Canyon A4

3. CASING PROGRAM (All NEW casing)

Surface Casing: 13.375" casing set at ± 900' MD/ 900' 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'-900'	900'	48	H-40	ST&C	770	1730	322	12.72	12.56	2.46	5.54	7.45

Intermediate Casing: 9 5/8" casing set at ± 4750' MD/ 4750' 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'- 4750' ^{4640'} 4750'	4750' 4750'	40	J-55	LT&C	2570	3950	520	8.835	8.75	1.26	1.93	2.74

Production Casing: 5.5" casing set at ± 12767' MD / 8418' 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
0-12767	12767	17	L-80	BTC	6280	7740	348	4.89	4.77	1.23	2.18	1.80

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' - 701' (165% Excess)	740	701	Premium Plus cement with 2% Calcium Chloride, 4% Bentonite, 0.25 lbm/sk Poly-E-Flake	9.16	13.5	1.75	589psi
Tail: 701' - 900' (165% Excess)	300	199	Premium Plus cement with 2% Calcium Chloride	6.37	14.8	1.35	1608psi

Intermediate (TOC: 0')							
Lead: 0' - 4052' (105 % Excess)	1260	4052	Premium Plus cement with 1% Calcium Chloride, 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: 4052' - 4750' (105% Excess)	350	698	Premium Plus cement with 0.5% Well Life 734	6.36	14.8	1.33	2125 psi
Production (TOC: 7500') Stage 1 DV Tool - 7500' <i>see core</i>							
Lead: 7500-12767 (85 % Excess)	1350	5267	Super H - 0.5% Halad®-344, 0.4% CFR-3, 3lbm/sk Kol-Seal, 0.125lbm/sk Poly-E-Flake, 0.2% HR-601, 3lbm/sk Salt	8.45	13.20	1.67	1515 psi
Production (TOC: 4800') Stage 2 PO Stage Tool - 4800' <i>see core</i>							
Lead: 4800' - 6852' (125 % Excess)	500	2052	Light Premium - 3lbm/sk Salt, 3lbm/sk Kol-Seal, 0.3% HR-601	11.75	12.90	2.12	283 psi
Tail: 6852' - 7500' (125% Excess)	250	648	Premium Plus cement	6.49	14.80	1.34	1907 psi
Production (TOC: 0') Stage 3							
Lead: 0' - 4165' (10 % Excess)	580	4165	Light Premium - 3lbm/sk Salt	11.67	12.40	2.08	511 psi
Tail: 4165' - 4750' (10% Excess)	150	585	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 – 900' None.

Intermediate: 0 – ^{4640'}~~4750'~~ Intermediate hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 5M Choke Manifold.

Production: 0 – 12767' Production hole will be drilled with a 13 5/8" 10M three ram stack w/ 5M annular preventer, & 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 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.
 - 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.
 - See COA* 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.
 - See attached BOP & Choke manifold diagrams.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 900' ^{4640'}	8.4 – 8.6	32 – 34	NC	Fresh Water /Spud Mud
900' – 4750'	9.8 – 10.2	28 – 29	NC	Brine Water
4750' – 7500'	8.6 – 8.8	28 - 29	NC	Fresh Water
7500' – TD'	9.0 – 9.2	40 - 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 Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- See COA* 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 con*

- A. Mud Logger: Base of Surface 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 between **4000 and 4100 psi**.
- C. No abnormal temperatures or pressures are anticipated. **The highest anticipated pressure gradient is 0.48 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 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.

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 28 FED #5H

LEA CO., NEW MEXICO

WELL FILE: **PLAN 1**

APRIL 19, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.99	0.00	0.00	0.00	0.00	0.00	0.00	
2	7701.80	0.00	179.99	7701.80	0.00	0.00	0.00	0.00	0.00	
3	8826.80	90.00	179.99	8418.00	-716.20	0.08	8.00	179.99	716.20	
4	12767.31	90.00	179.99	8418.00	-4656.70	0.50	0.00	0.00	4656.70	PBHL

Name	WELL DETAILS						Slot
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
Red Tank 28 Fed #511	0.00	0.00	498572.40	703730.50	32°22'08.271N	103°40'24.518W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8418.00	-4656.70	0.50	493915.70	703731.00	Point

SITE DETAILS

Red Tank 28 Fed #511

Site Centre Northing: 498572.40
Easting: 703730.50

Ground Level: 3623.70
Positional Uncertainty: 0.00
Convergence: 0.35



Azimuths to Grid North
True North: -0.35°
Magnetic North: 7.12°

**Magnetic Field
Strength: 48580nT
Dip Angle: 60.27°
Date: 11/1/2012
Model: IGRF2010**

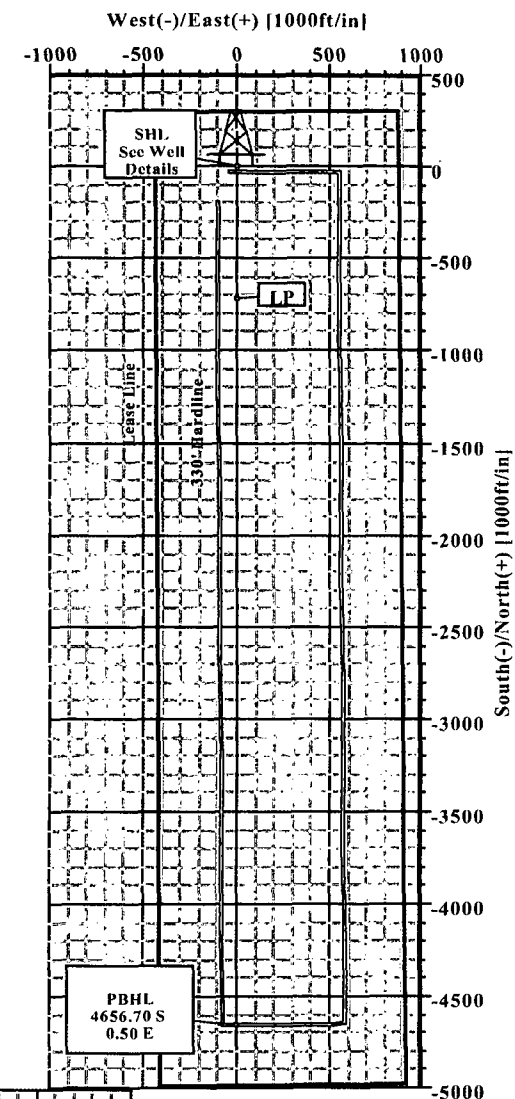
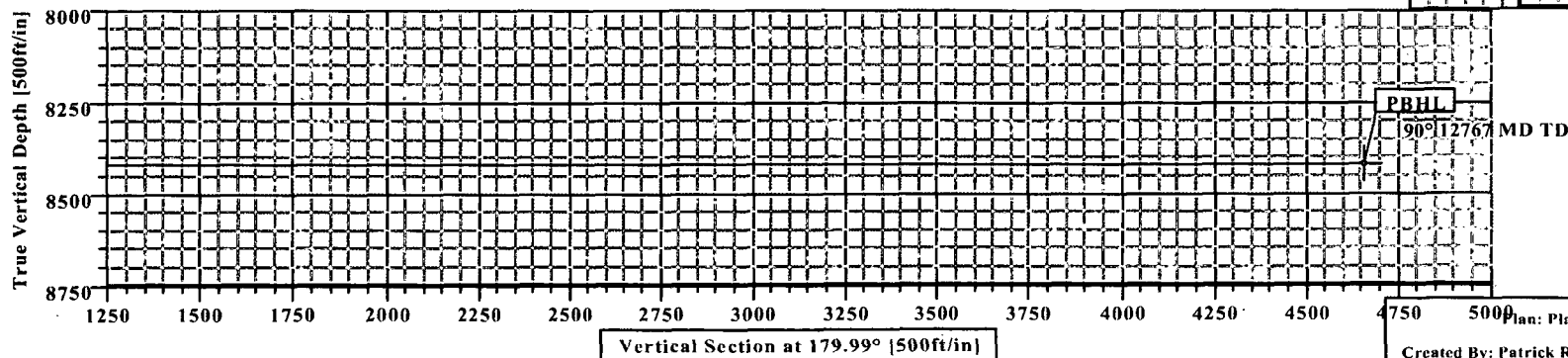
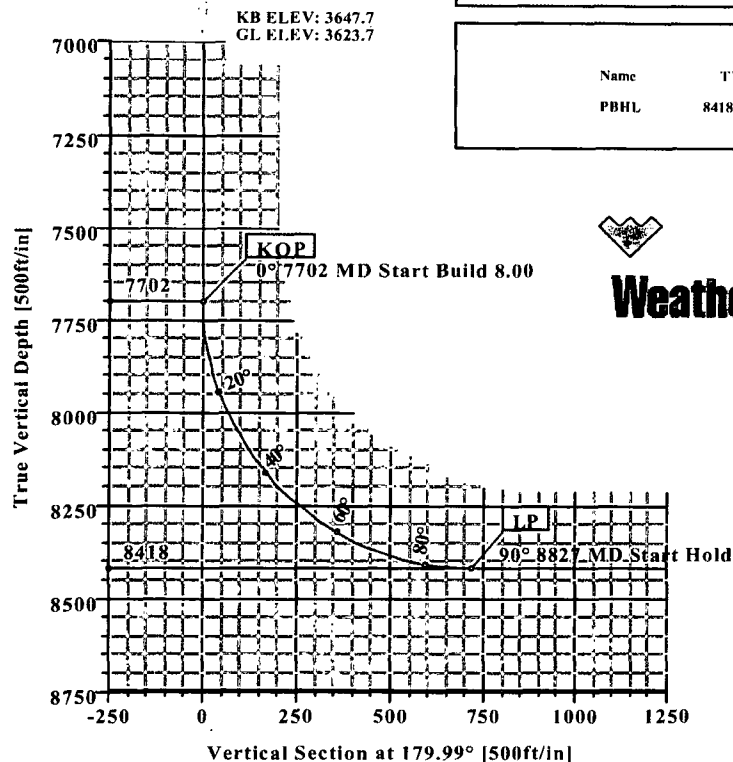
Total Correction to Grid North: 7.12°

FIELD DETAILS

Len 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

Plan #1

750 5000 Plan: Plan #1 (Red Tank 28 Fed #5H/1)

Created By: Patrick Rudolph

Date: 4/19/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Occidental Permian Ltd. Date: 4/19/2012 Time: 10:55:57 Page: 1
Field: Lea Co, New Mexico (Nad 27) Co-ordinate(NE) Reference: Well: Red Tank 28 Fed #5H, Grid North
Site: Red Tank 28 Fed #5H Vertical (TVD) Reference: SITE 3647.7
Well: Red Tank 28 Fed #5H Section (VS) Reference: Well (0.00N,0.00E,179.99Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 4/19/2012
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 28 Fed #5H

Site Position: Northing: 498572.40 ft Latitude: 32 22 8.271 N
From: Map Easting: 703730.50 ft Longitude: 103 40 24.518 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3623.70 ft Grid Convergence: 0.35 deg

Well: Red Tank 28 Fed #5H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 498572.40 ft Latitude: 32 22 8.271 N
+E/-W 0.00 ft Easting: 703730.50 ft Longitude: 103 40 24.518 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3647.70 ft Tie-on Depth: 0.00 ft
Magnetic Data: 11/1/2012 Above System Datum: Mean Sea Level
Field Strength: 48580 nT Declination: 7.48 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 60.27 deg
ft ft ft Direction deg
0.00 0.00 0.00 179.99

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	179.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7701.80	0.00	179.99	7701.80	0.00	0.00	0.00	0.00	0.00	0.00	
8826.80	90.00	179.99	8418.00	-716.20	0.08	8.00	8.00	0.00	179.99	
12767.31	90.00	179.99	8418.00	-4656.70	0.50	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
7701.80	0.00	179.99	7701.80	0.00	0.00	0.00	0.00	498572.40	703730.50	KOP
7750.00	3.86	179.99	7749.96	-1.62	0.00	1.62	8.00	498570.78	703730.50	
7800.00	7.86	179.99	7799.69	-6.72	0.00	6.72	8.00	498565.68	703730.50	
7850.00	11.86	179.99	7848.94	-15.28	0.00	15.28	8.00	498557.12	703730.50	
7900.00	15.86	179.99	7897.48	-27.25	0.00	27.25	8.00	498545.15	703730.50	
7950.00	19.86	179.99	7945.06	-42.58	0.00	42.58	8.00	498529.82	703730.50	
8000.00	23.86	179.99	7991.46	-61.19	0.01	61.19	8.00	498511.21	703730.51	
8050.00	27.86	179.99	8036.44	-82.99	0.01	82.99	8.00	498489.41	703730.51	
8100.00	31.86	179.99	8079.80	-107.87	0.01	107.87	8.00	498464.53	703730.51	
8150.00	35.86	179.99	8121.31	-135.72	0.01	135.72	8.00	498436.68	703730.51	
8200.00	39.86	179.99	8160.78	-166.40	0.02	166.40	8.00	498406.00	703730.52	
8250.00	43.86	179.99	8198.02	-199.76	0.02	199.76	8.00	498372.64	703730.52	
8300.00	47.86	179.99	8232.83	-235.63	0.03	235.63	8.00	498336.77	703730.53	
8350.00	51.86	179.99	8265.06	-273.84	0.03	273.84	8.00	498298.56	703730.53	
8400.00	55.86	179.99	8294.55	-314.21	0.03	314.21	8.00	498258.19	703730.53	
8450.00	59.86	179.99	8321.14	-356.54	0.04	356.54	8.00	498215.86	703730.54	
8500.00	63.86	179.99	8344.72	-400.62	0.04	400.62	8.00	498171.78	703730.54	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Red Tank 28 Fed #5H
Well: Red Tank 28 Fed #5H
Wellpath: 1

Date: 4/19/2012 Time: 10:55:57 Page: 2
Co-ordinate(NE) Reference: Well: Red Tank 28 Fed #5H, Grid North
Vertical (TVD) Reference: SITE 3647.7
Section (VS) Reference: Well (0.00N,0.00E,179.99Azi)
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
8550.00	67.86	179.99	8365.17	-446.23	0.05	446.23	8.00	498126.17	703730.55	
8600.00	71.86	179.99	8382.39	-493.17	0.05	493.17	8.00	498079.23	703730.55	
8650.00	75.86	179.99	8396.29	-541.18	0.06	541.18	8.00	498031.22	703730.56	
8700.00	79.86	179.99	8406.80	-590.06	0.06	590.06	8.00	497982.34	703730.56	
8750.00	83.86	179.99	8413.89	-639.54	0.07	639.54	8.00	497932.86	703730.57	
8800.00	87.86	179.99	8417.50	-689.40	0.07	689.40	8.00	497883.00	703730.57	
8826.80	90.00	179.99	8418.00	-716.20	0.08	716.20	8.00	497856.20	703730.58	LP
8900.00	90.00	179.99	8418.00	-789.39	0.08	789.39	0.00	497783.01	703730.58	
9000.00	90.00	179.99	8418.00	-889.39	0.10	889.39	0.00	497683.01	703730.60	
9100.00	90.00	179.99	8418.00	-989.39	0.11	989.39	0.00	497583.01	703730.61	
9200.00	90.00	179.99	8418.00	-1089.39	0.12	1089.39	0.00	497483.01	703730.62	
9300.00	90.00	179.99	8418.00	-1189.39	0.13	1189.39	0.00	497383.01	703730.63	
9400.00	90.00	179.99	8418.00	-1289.39	0.14	1289.39	0.00	497283.01	703730.64	
9500.00	90.00	179.99	8418.00	-1389.39	0.15	1389.39	0.00	497183.01	703730.65	
9600.00	90.00	179.99	8418.00	-1489.39	0.16	1489.39	0.00	497083.01	703730.66	
9700.00	90.00	179.99	8418.00	-1589.39	0.17	1589.39	0.00	496983.01	703730.67	
9800.00	90.00	179.99	8418.00	-1689.39	0.18	1689.39	0.00	496883.01	703730.68	
9900.00	90.00	179.99	8418.00	-1789.39	0.19	1789.39	0.00	496783.01	703730.69	
10000.00	90.00	179.99	8418.00	-1889.39	0.20	1889.39	0.00	496683.01	703730.70	
10100.00	90.00	179.99	8418.00	-1989.39	0.21	1989.39	0.00	496583.01	703730.71	
10200.00	90.00	179.99	8418.00	-2089.39	0.22	2089.39	0.00	496483.01	703730.72	
10300.00	90.00	179.99	8418.00	-2189.39	0.24	2189.39	0.00	496383.01	703730.74	
10400.00	90.00	179.99	8418.00	-2289.39	0.25	2289.39	0.00	496283.01	703730.75	
10500.00	90.00	179.99	8418.00	-2389.39	0.26	2389.39	0.00	496183.01	703730.76	
10600.00	90.00	179.99	8418.00	-2489.39	0.27	2489.39	0.00	496083.01	703730.77	
10700.00	90.00	179.99	8418.00	-2589.39	0.28	2589.39	0.00	495983.01	703730.78	
10800.00	90.00	179.99	8418.00	-2689.39	0.29	2689.39	0.00	495883.01	703730.79	
10900.00	90.00	179.99	8418.00	-2789.39	0.30	2789.39	0.00	495783.01	703730.80	
11000.00	90.00	179.99	8418.00	-2889.39	0.31	2889.39	0.00	495683.01	703730.81	
11100.00	90.00	179.99	8418.00	-2989.39	0.32	2989.39	0.00	495583.01	703730.82	
11200.00	90.00	179.99	8418.00	-3089.39	0.33	3089.39	0.00	495483.01	703730.83	
11300.00	90.00	179.99	8418.00	-3189.39	0.34	3189.39	0.00	495383.01	703730.84	
11400.00	90.00	179.99	8418.00	-3289.39	0.35	3289.39	0.00	495283.01	703730.85	
11500.00	90.00	179.99	8418.00	-3389.39	0.36	3389.39	0.00	495183.01	703730.86	
11600.00	90.00	179.99	8418.00	-3489.39	0.37	3489.39	0.00	495083.01	703730.87	
11700.00	90.00	179.99	8418.00	-3589.39	0.39	3589.39	0.00	494983.01	703730.89	
11800.00	90.00	179.99	8418.00	-3689.39	0.40	3689.39	0.00	494883.01	703730.90	
11900.00	90.00	179.99	8418.00	-3789.39	0.41	3789.39	0.00	494783.01	703730.91	
12000.00	90.00	179.99	8418.00	-3889.39	0.42	3889.39	0.00	494683.01	703730.92	
12100.00	90.00	179.99	8418.00	-3989.39	0.43	3989.39	0.00	494583.01	703730.93	
12200.00	90.00	179.99	8418.00	-4089.39	0.44	4089.39	0.00	494483.01	703730.94	
12300.00	90.00	179.99	8418.00	-4189.39	0.45	4189.39	0.00	494383.01	703730.95	
12400.00	90.00	179.99	8418.00	-4289.39	0.46	4289.39	0.00	494283.01	703730.96	
12500.00	90.00	179.99	8418.00	-4389.39	0.47	4389.39	0.00	494183.01	703730.97	
12600.00	90.00	179.99	8418.00	-4489.39	0.48	4489.39	0.00	494083.01	703730.98	
12700.00	90.00	179.99	8418.00	-4589.39	0.49	4589.39	0.00	493983.01	703730.99	
12767.31	90.00	179.99	8418.00	-4656.70	0.50	4656.70	0.00	493915.70	703731.00	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 28 Fed #5H
Well: Red Tank 28 Fed #5H
Wellpath: 1

Date: 4/19/2012 Time: 10:55:57 Page: 3
Co-ordinate(NE) Reference: Well: Red Tank 28 Fed #5H, Grid North
Vertical (TVD) Reference: SITE 3647.7
Section (VS) Reference: Well (0.00N,0.00E,179.99Azi)
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			8418.00	-4656.70	0.50	493915.70	703731.00	32 21 22.190 N	103 40 24.847 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
875.00	875.00	0.000	0.000	Csg
4750.00	4750.00	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
7701.80	7701.80	KOP
8826.80	8418.00	LP
12767.30	8418.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1303.00	1303.00	Base Salt		0.00	0.00
4628.00	4628.00	Base Anhydrite		0.00	0.00
4723.00	4723.00	Bell Canyon		0.00	0.00
6846.00	6846.00	Brushy Canyon		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 28 Fed #5H
API Number: _____
Rig Name: _____
Location: Lea Co, New Mexico (Nad 27)
Block: _____
Engineer: Patrick Rudolph

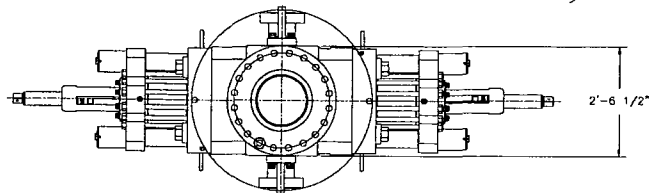
US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 498572.400 USFT	Latitude 32.3689641 DEG
East/West 703730.500 USFT	Longitude -103.6734772 DEG
Grid Convergence: .35°	
Total Correction: +7.13°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.36896° N	32° 22 min 8.271 sec
Longitude =	103.67348° W	103° 40 min 24.518 sec

Magnetic Declination =	7.48°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6607
Local Field Strength =	48576 nT	Magnetic Vector X = 23885 nT
Magnetic Dip =	60.27°	Magnetic Vector Y = 3134 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42182 nT
Spud Date =	Nov 01, 2012	Magnetic Vector H = 24090 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

SHAFFER BOLTED-COVER SPHERICAL ANNUULAR 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 MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) IN TOP CAVITY AND CAMERON DS SHEARING BLIND 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 6,000 LBS)

CAMERON UM SINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" 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 11"-5M
ADAPTER SPOOL, 2'-0" LONG,
WITH SS RING GROOVES
(MARATHON RIGS 255, 256,
257, 258 & 259 ONLY)

SEE LIFT LUG DETAIL

3'-11 7/8"

4'-3 7/8"

14'-7 1/2"

1'-8 7/8"

2'-6 7/8"

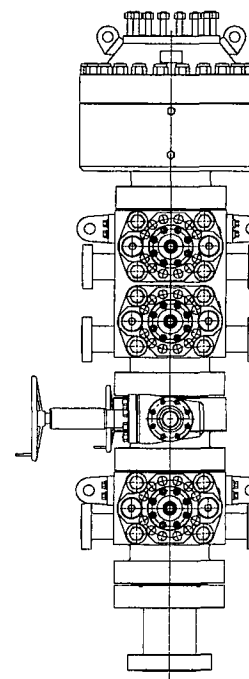
2'-0"

11'-1 5/8" CLOSED

12'-5 3/8" OPERATING

16'-5" OPENED

13 5/8-10M STACK



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

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

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

PROPRIETARY

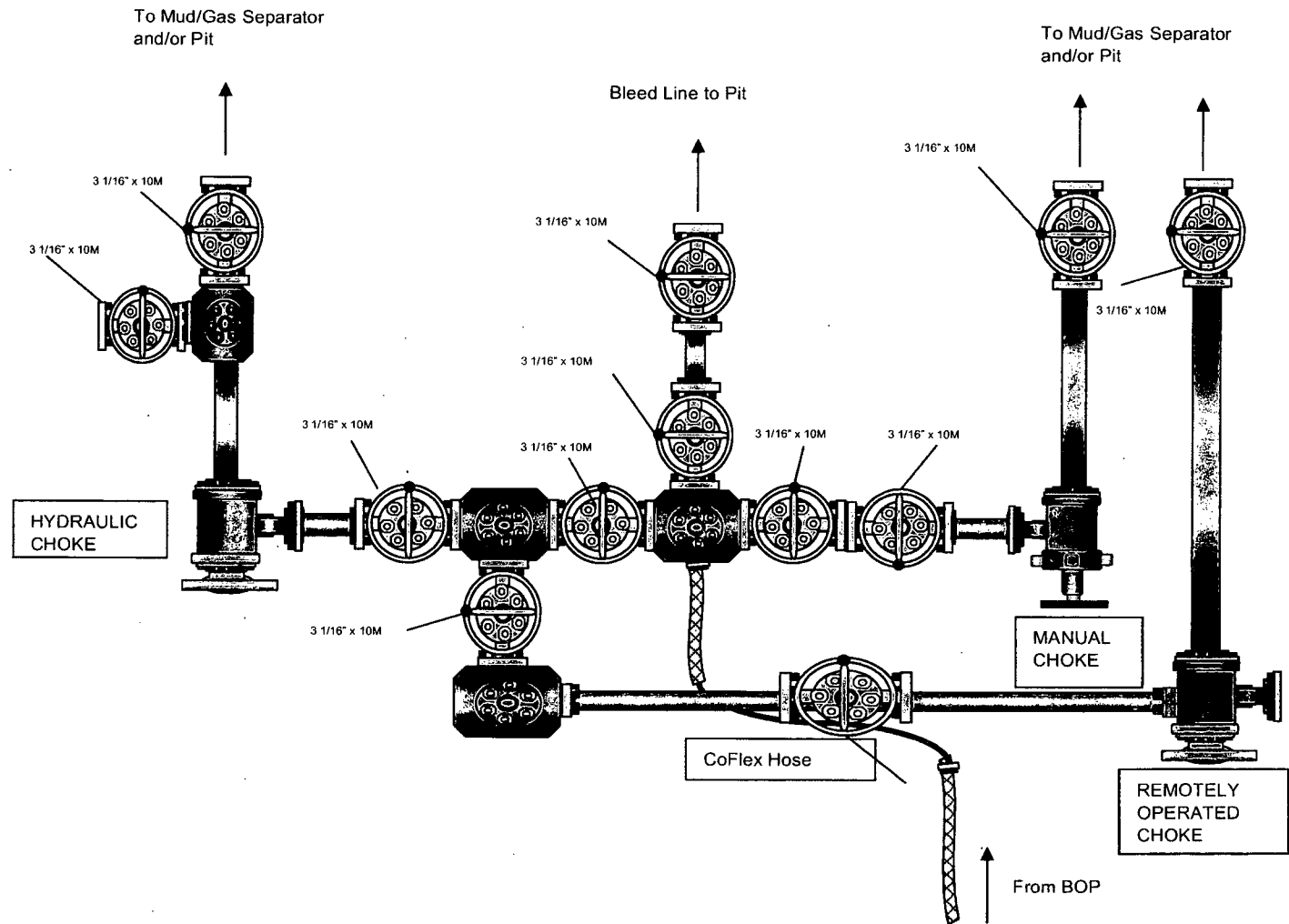
THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER, WITHOUT THE PRIOR WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

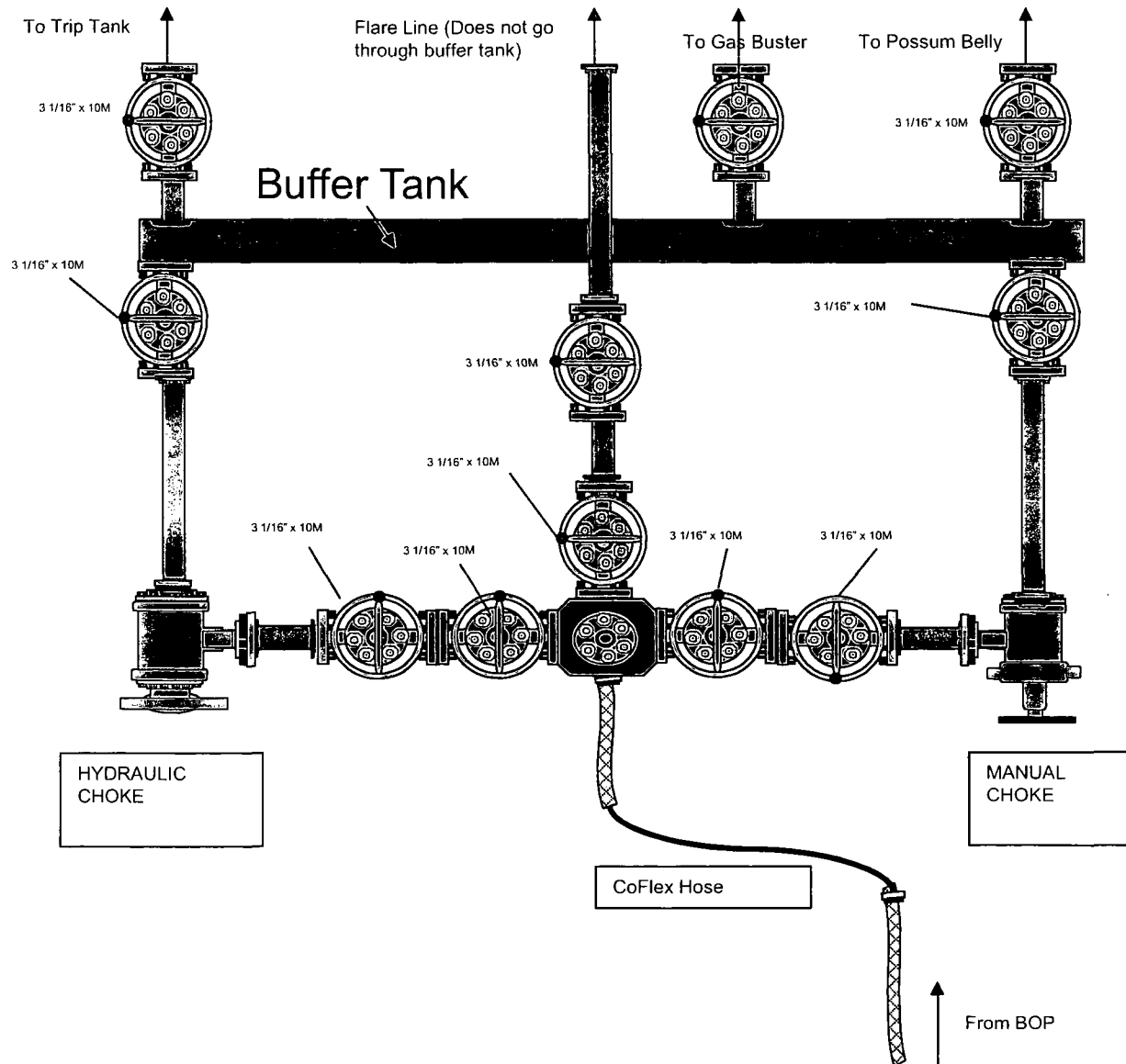
ENGINEERING APPROVAL	DATE	TITLE
JAV	12/18/07	13 5/8"-10M BOP 3 RAM STACK
JBG	4-10-07	FLEXRIG3
JBG	4-04-07	CUSTOMER: H&P
NWL	02-07-07	PROJECT: FLEXRIG3
NWL	06-13-02	DRAWN: MTS
BY		DATE: 6-5-02
		DWG. NO.:
		SCALE: 3/4"=1"
		SHEET: 1 OF 1

210-P1-07 E

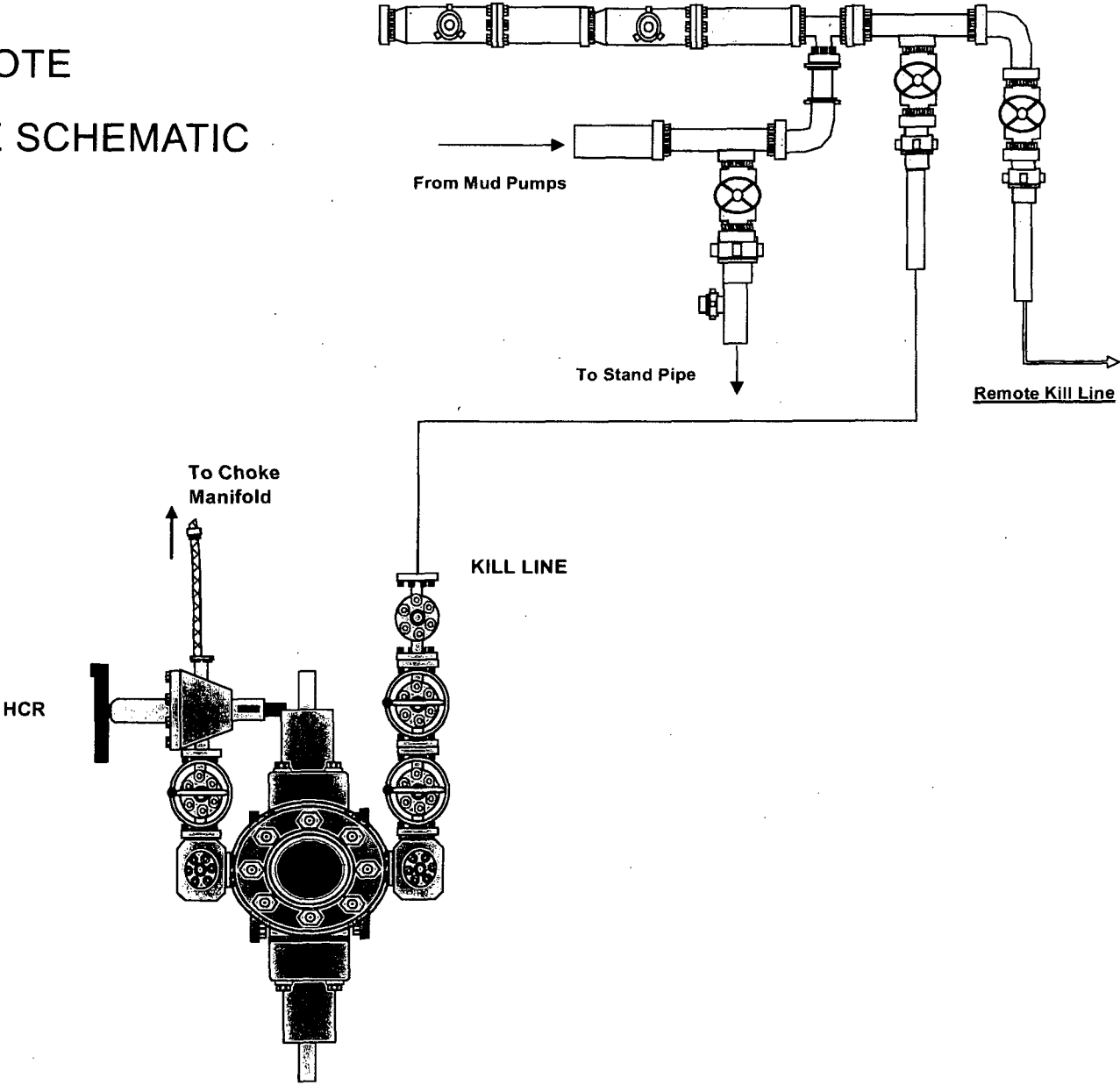
10M CHOKE MANIFOLD CONFIGURATION



FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



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 :

A handwritten signature in black ink, appearing to read "Jack Q.", is written over a dotted line.

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

Date: 04. April. 2008

Position: Q.C. Manager

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					

Page: 1/1

Cont Tech Rubber
Industrial Kft.
Quality Control Dept.
(2)

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittain 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	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 GAL 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**

11536 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: sa1@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

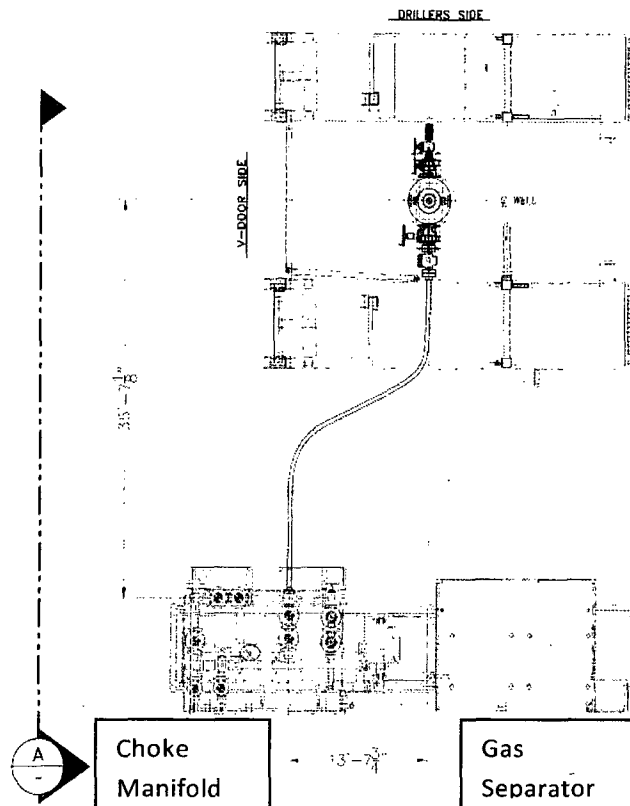
All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days.
Returns may be subject to a handling charge.

[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.

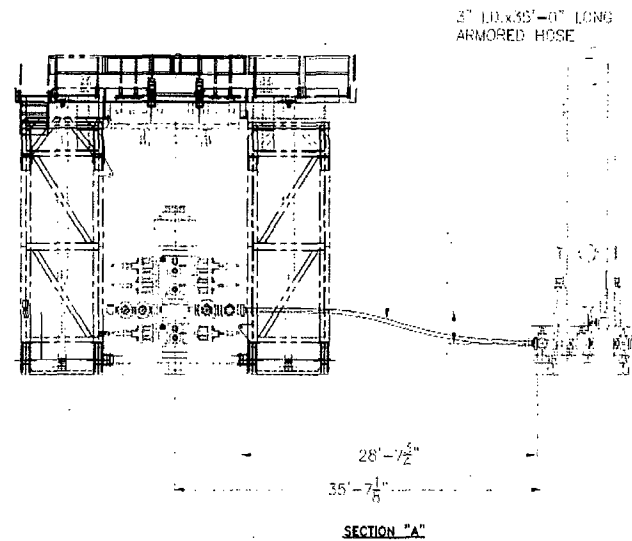
05/23/09

Coflex Hose Certification



PLAN VIEW

→ To Shakers



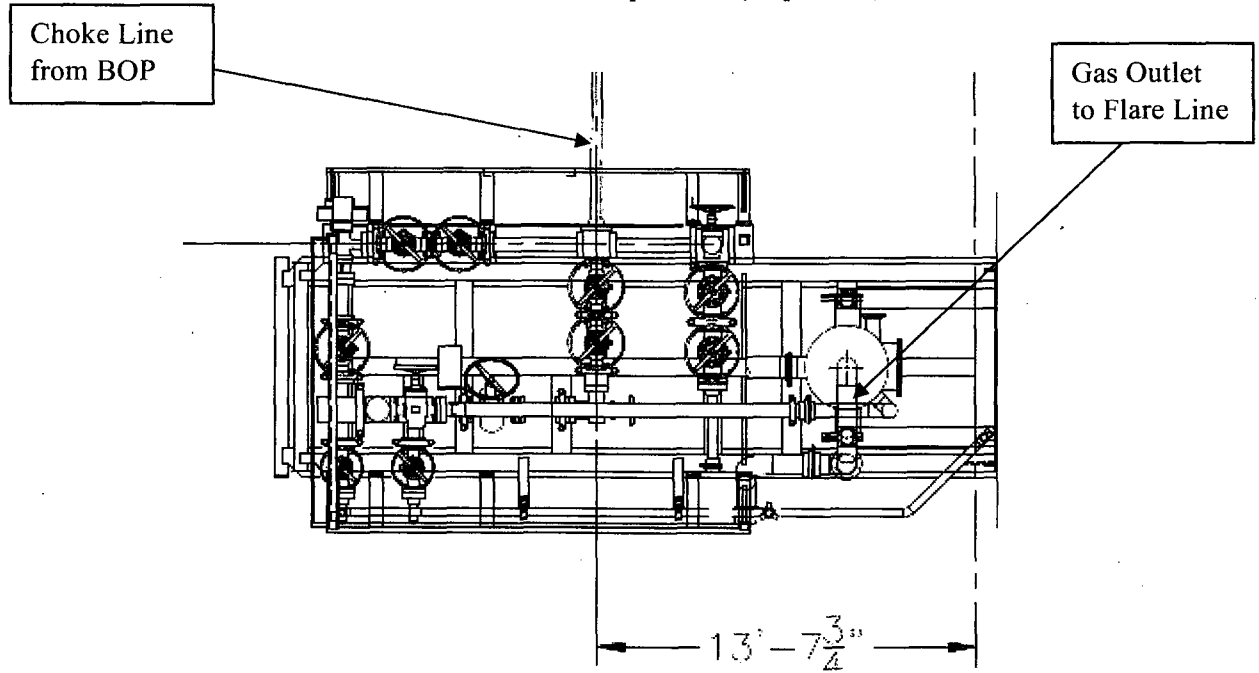
ISSUED FOR FABRICATION
December-19-2007
DRAFTSMAN
ENGINEER

PROPRIETARY
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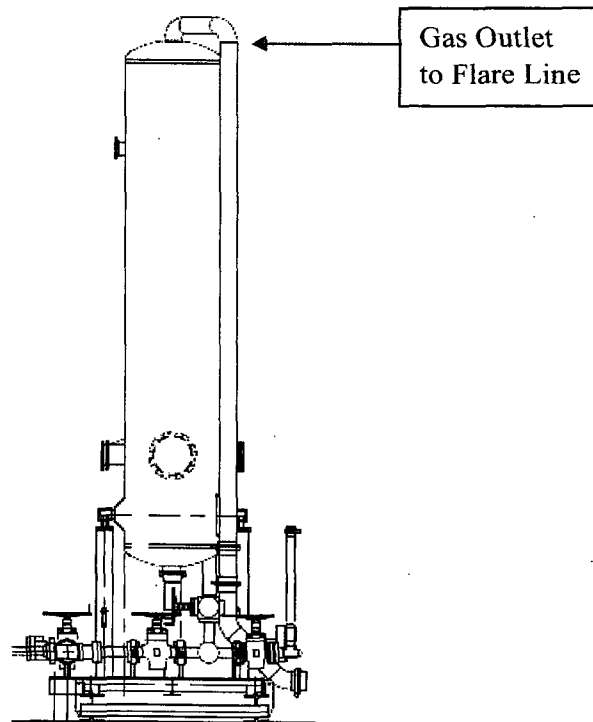
ENGINEERING APPROVAL		DATE	TITLE
△			CHOKE LINE SYSTEM
△			FLEXRIG3
△			CUSTOMER
△			PROJECT
△	12/16/07	REMOVED SHEET TOTAL CALLOUT	DATE: 6-10-07 EWS: MK
REV	DATE	DESCRIPTION	BY
SCALE	3/16"=1'	SHEET: 2 OF	210-P1-07 A

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

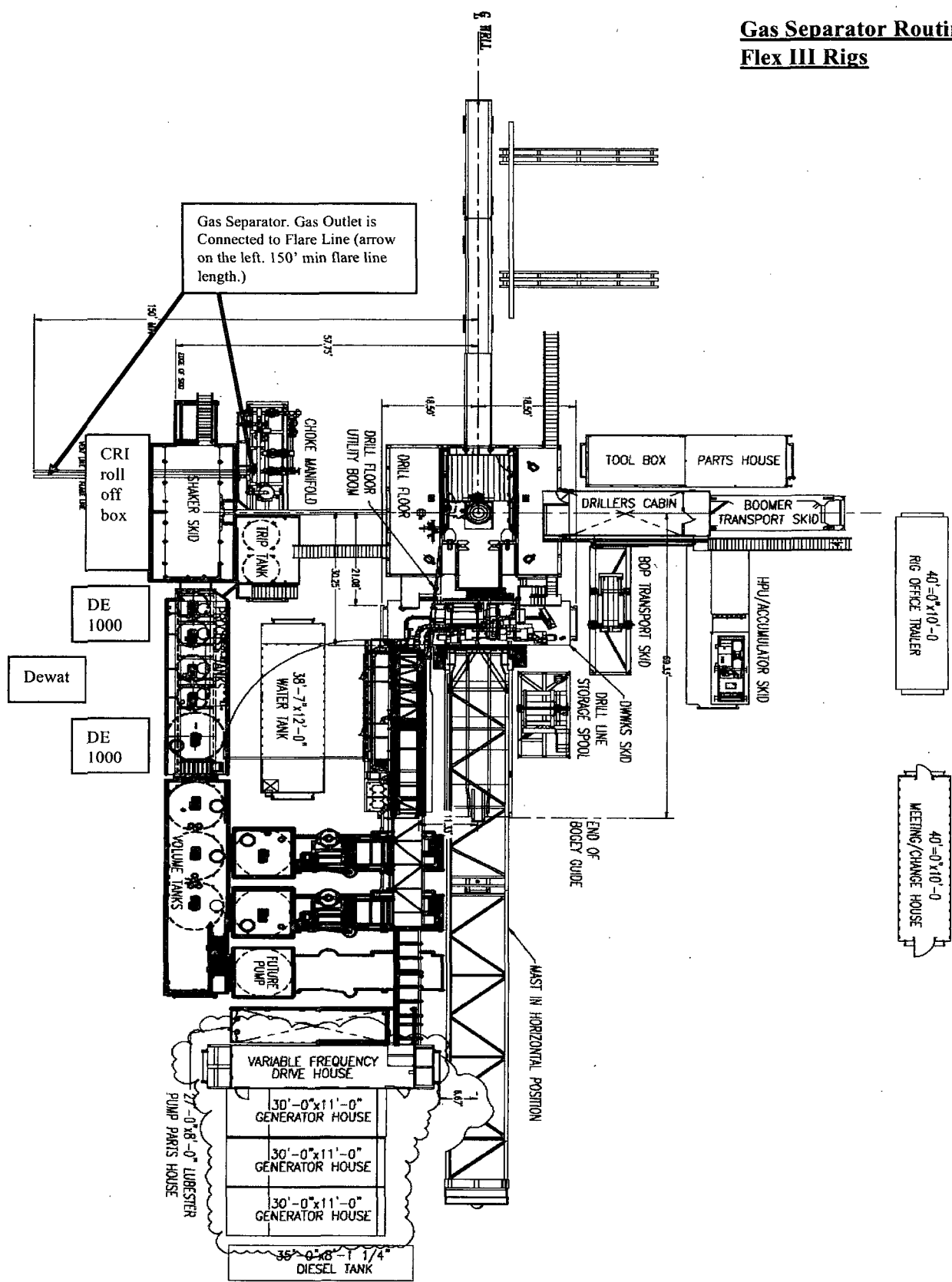
Choke Manifold – Gas Separator (Top View)

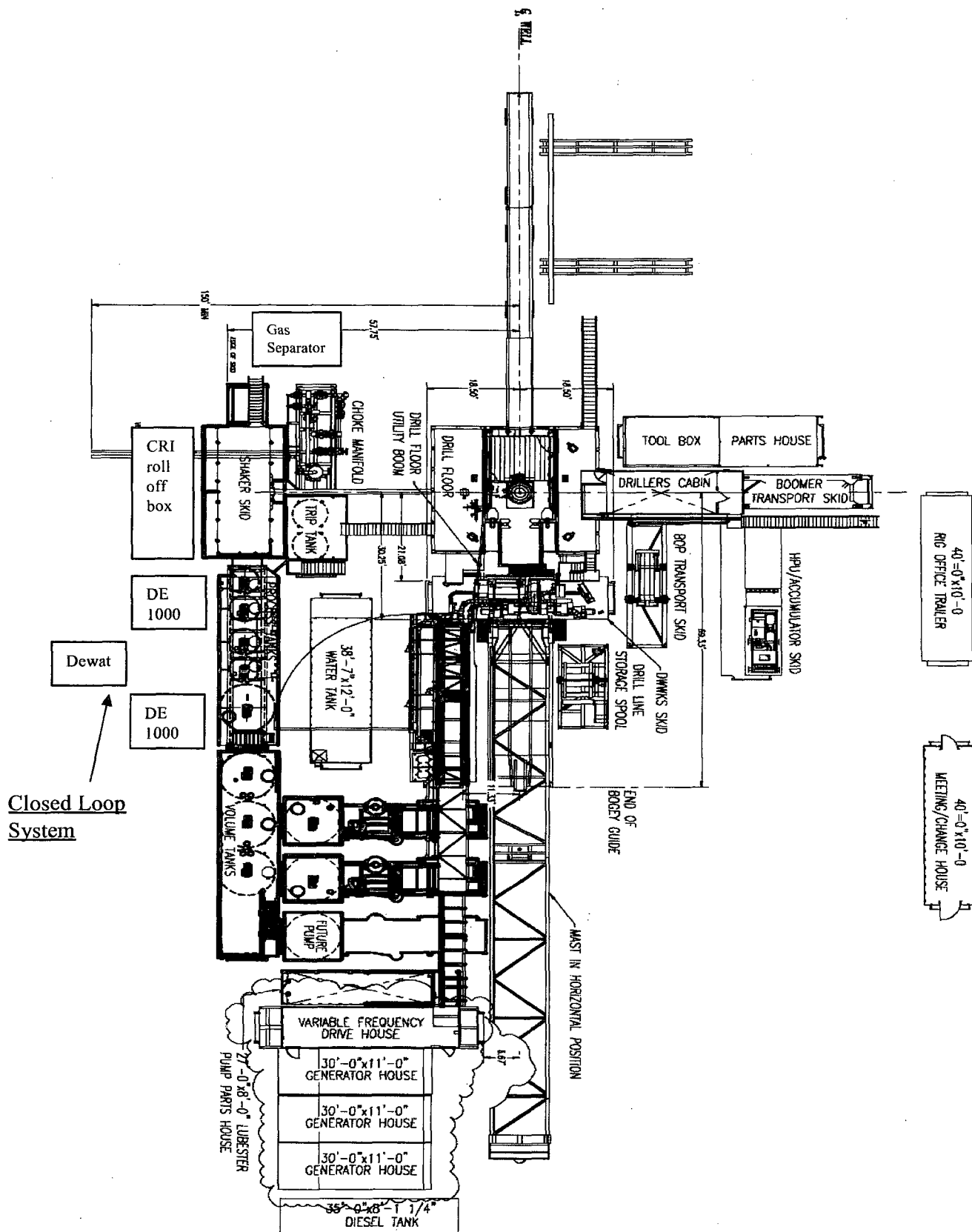


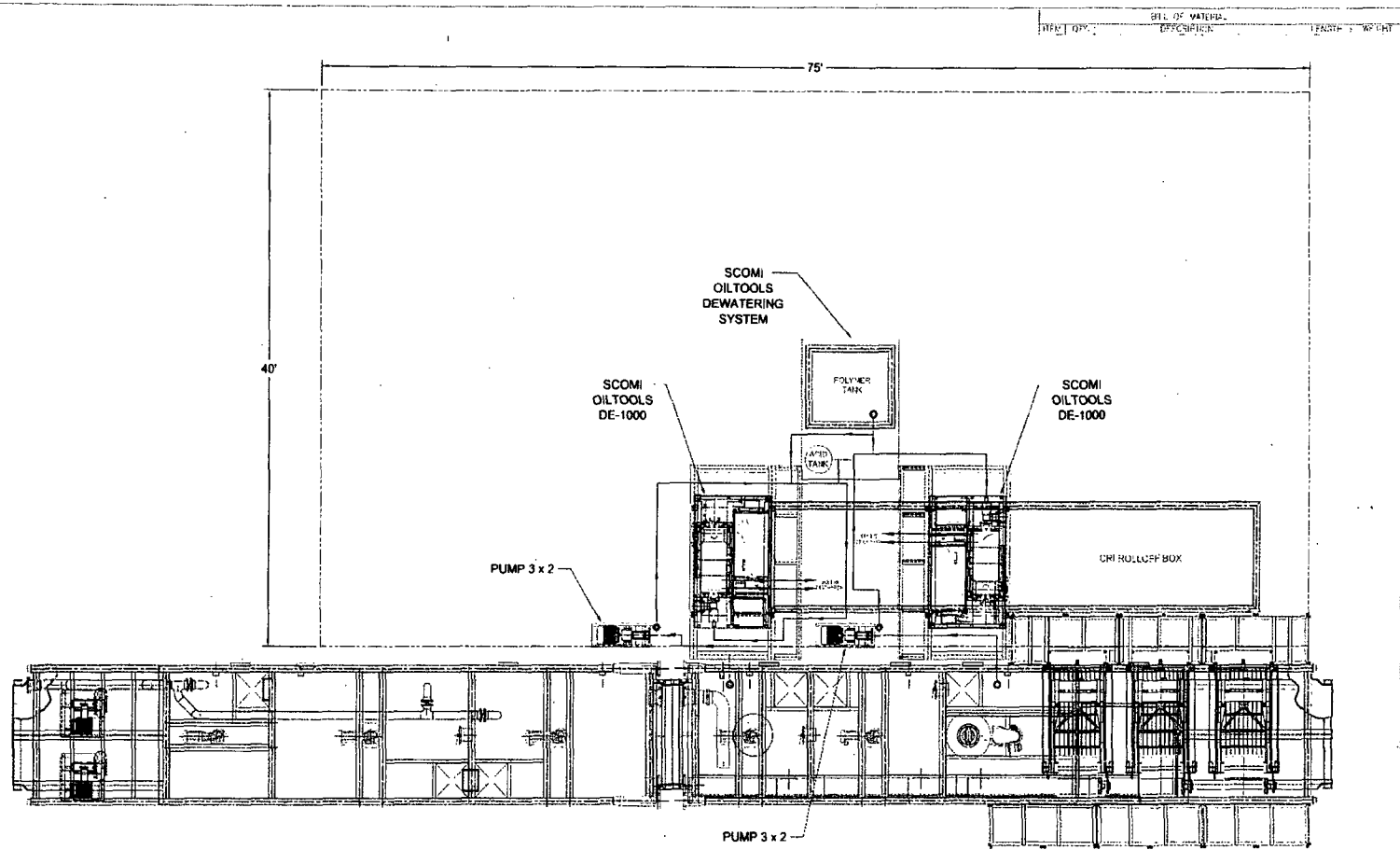
Choke Manifold – Gas Separator (Side View)



Gas Separator Routing
Flex III Rigs

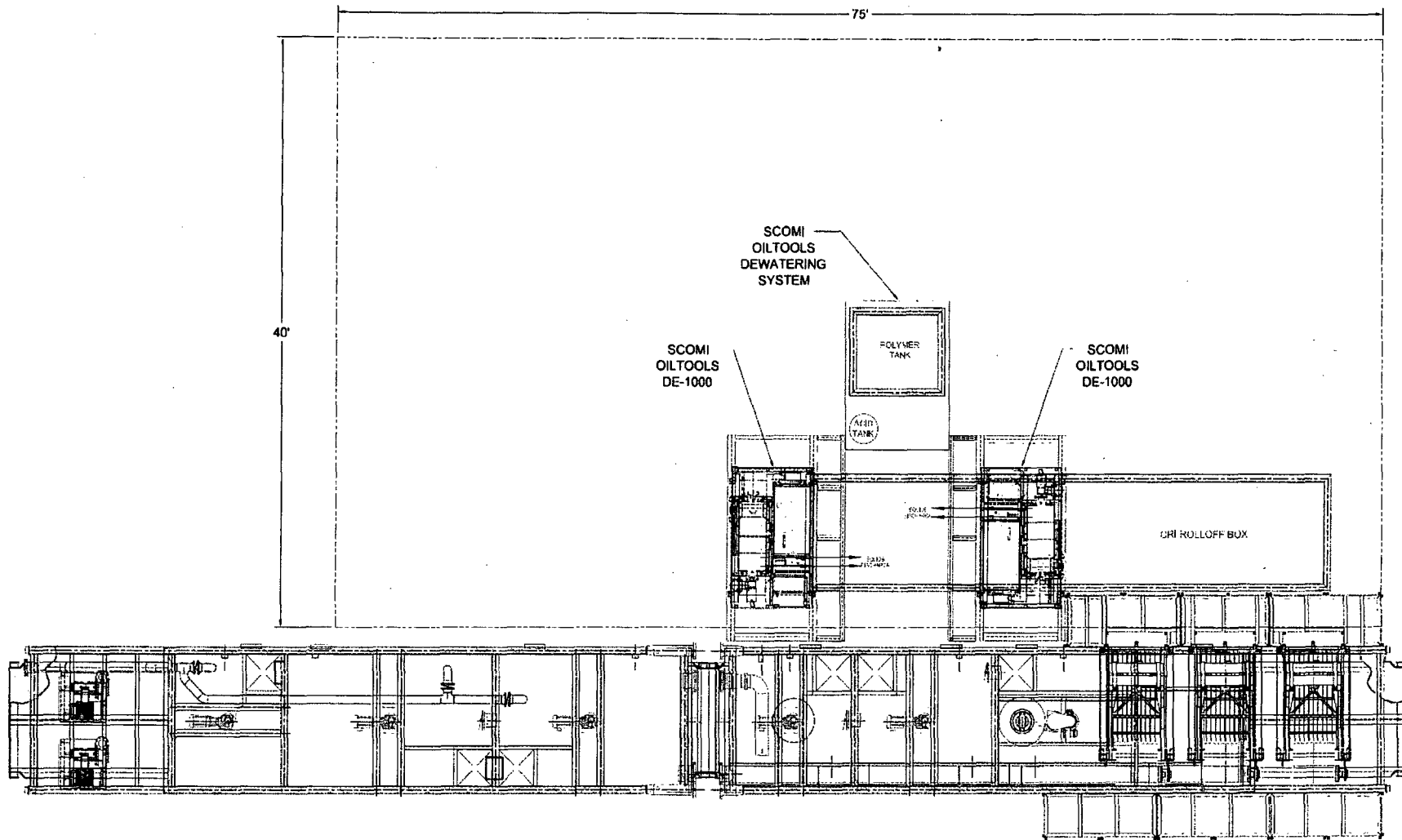






				1. ALL DIMENSIONS SHALL BE IN FEET - INCHES - AND FRACTIONS THEREOF. 2. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 3. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 4. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 5. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 6. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 7. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 8. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 9. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. 10. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED.	DATE: 10/06/06 DESIGNED BY: DATE: APPROVED: DATE: TOTAL: NTS: DRAWING: D	Scomi 301 N. Main Street, Suite 300, Houston, Texas 77002 PHONE: (281) 888-8888 FAX: (281) 888-8888 521S-014 A
--	--	--	--	--	---	---

BILL OF MATERIAL		LENGTH	WEIGHT
ITEM	DESCRIPTION		



				1. ALL STRUCTURAL MATERIAL SHALL BE ASTM A 36. 2. ALL PIPE SHALL BE SCH. 40 MATERIAL SA 106 GR. B. 3. ALL FLANGES SHALL BE SCH. 150W MATERIAL SA 105. 4. ALL WELDS SHALL BE AC MATERIAL SHALL BE SA 256 OR 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 1 OF 2		Scomi 801 H. Sam Houston Parkway East, Suite 300, Houston, Texas 77060 PHONE: (281) 288-8818 FAX: (281) 288-8888	
The design, information and dimensions on this drawing or specification are the sole and exclusive property of Scomi International Limited and are not to be reproduced or disclosed in any form or by any means, in any manner, or for any purpose, without the written permission of Scomi International Limited. In witness whereof, the signatures of the designer and checker are hereby affixed to this drawing.				DRAWN BY: DL DATE: 10/20/00		CHECKED BY: DL DATE: 10/20/00		SCALE: 1/8" = 1'-0" DATE: 10/20/00		JOB NO: 521S-014	
A. ADD 3 PAGES 2 TO 5000 PPMU				APPROVED: DL DATE: 10/20/00		SCALE: 1/8" = 1'-0" DATE: 10/20/00		JOB NO: 521S-014		PLOT: A	



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.