

APR 01 2013

Form 3160-3
(April 2004)

OCD Hobbs

RECEIVED

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

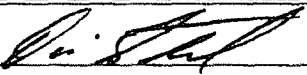
NOV 9/11/12

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM110840
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. <16696>		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. Box 50250 Midland, TX 79710		8. Lease Name and Well No. Madera 35 Federal #1H <39789>
3b. Phone No. (include area code) 432-685-5717		9. API Well No. 30-025-41083
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 400 FNL 329 FWL NWNW(D) At proposed prod. zone 400 FNL 350 FEL NENE(A)		10. Field and Pool, or Exploratory Undsg. Jabalina Delaware, SW <97597>
14. Distance in miles and direction from nearest town or post office* 13 miles southwest from Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 35 T26S R34E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Lease - 350' Drig Unit - 329'	16. No. of acres in lease 1335.19ac	17. Spacing Unit dedicated to this well 160ac
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Lease None Nearest Well 3550'	19. Proposed Depth 11150' V 13547' M 9130' V	20. BLM/BIA Bond No. on file NMB000862 - 022032304 - ESB00226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3226' GL	22. Approximate date work will start* 04/01/2012	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 11/5/13
Title Regulatory Advisor	david_stewart@oxy.com	
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date MAR 27 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.

APPROVAL FOR TWO YEARS

Conditions of approval, if any, are attached.

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.

*(Instructions on page 2)

Carlsbad Controlled Water Basin

K.2
04/02/13SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

APR 03 2013

DRILLING PROGRAM

•Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Madera 35 Federal #1H	
Pool Name/Number:	Undesignated Jabalina Delaware, SW	13367
Surface Location:	400 FNL 329 FWL NWNW(D) Sec 35 T26S R34E	Federal Lease No.NMNM110840
Penetration Point:	400 FNL 556 FWL NWNW(D) Sec 35 T26S R34E	
Bottom Hole Location:	400 FNL 350 FEL NENE(A) Sec 35 T26S R34E	

Proposed TD: Pilot Hole 11150' TVD Horizontal Lateral 9130' TVD 13547' TMD
SL - Lat: 32.4477289 Long: 103.4477289 X= 774519.8 Y= 387007.2 NAD - 1927
BH - Lat: 32.0058824 Long: 103.4328157 X= 779142.9 Y= 367029.8 NAD - 1927
Elevation: 3226.0' GL

1. Geologic Name of Surface Formation:

- a. Permian

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Geological Marker	Depth	Type
a. Rustler	910'	Formation
b. Top Salt	1275'	Formation
c. Base Salt	5110'	Formation
d. Delaware	5370'	Oil
e. Bell Canyon	5405'	Oil
f. Cherry Canyon	6330'	Oil
g. Brushy Canyon	7900'	Oil
h. 1st Bone Spring	9465'	Oil
i. 2nd Bone Spring	10990'	Oil

Fresh water may be present above the Rustler formation. Surface casing will be set below the top of the Rustler, which will cover potential fresh water sources. Per NMSEO website, no fresh water wells were found.

3. Casing Program:

Hole Size	Interval	OD Csg	Weight	Collar	Grade	Condition	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0-940'	13-3/8"	48	ST&C	H-40	New	2.19	1.99	12.2
	5350'			Hole filled with 8.4# Mud			740#	1730#	
12-1/4"	0-5500'	9-5/8"	40	LT&C	J-55	New	2.04	1.29	2.44
				Hole filled with 10.2# Mud			2570#	3950#	
8-3/4"	0-13547'	5-1/2"	20	BT&C	P-110	New	1.6	1.4	2.2
*DVT @ 5600'				Hole filled with 9.6# Mud			7480#	10640#	

Collapse and burst loads calculated using Stress Check with anticipated loads

4. Cement Program

- a. 13-3/8" Surface Circulate cement to surface w/ 700sx PP cmt w/ 4% Bentonite + 1% CaCl₂ + .125#/sx Poly-E-Flake, 13.5ppg 1.73 yield 1006# 24hr CS 165% Excess followed by 440sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield 1326# 24hr CS 165% Excess.
- b. 9-5/8" Intermediate Circulate cement to surface w/ 1530sx HES light PP cmt w/ 5% Salt + .125#/sx Poly-E-Flake + 5#/sx Kol Seal + .35% HR-800, 12.9ppg 1.88 yield 500# 24hs CS 105% Excess followed by 320sx PP cmt w/.5% WellLife-734, 14.8ppg 1.33 yield 1586# 24hr CS 105% Exc.

- c. Pilot Hole Plug Plug #1 cement w/ 460sx 50/50 Poz/Premium cmt w/ .3% CFR-3 + .3% HR-601, 14.4ppg 1.23 yield 1275# 24hr CS 35% excess from 11150' to +/-10150'.
 Plug #2 cement w/ 460sx 50/50 Poz/Premium cmt w/ .3% CFR-3 + .2% HR-601, 14.4ppg 1.22 yield 1275# 24hr CS 35% excess from 10150' to +/-9150'.
 Plug #3 cement w/ 480sx PP cmt w/ .5% CFR-3 + .2% HR-800, 17.5ppg .95 yield 4550# 24hr CS 35% Excess from 9150' to +/-8350'
- d. 5-1/2" Production Cement w/ 510sx 75.2#/sx PP cmt w/ 14.8#/sx Silicalite 50/50 Blend + 15#/sx Scotchlite HGS-6000 + 1#/sx Cal Seal 60 + .5#/sx CFR-3 + .15#/sx WG-17 + 1#/sx Cal-Seal 60 + 1.5#/sx salt + 2% CaCl₂, 10.6ppg 2.69 yield 429# 24hr CS 85% Excess followed by 1170sx Super H w/ 3#/sx salt + .5% Halad-344 + .125#/sx Poly-E-Flake + 3#/sx Kol-Seal + .2% HR-601 + .4% CFR-3, 13.2ppg 1.66 yield 1673# 24hr CS 50% Excess, Calc TOC-5000'

*Contingency Plan - DVT will be set @ 5600'. If returns are not lost during first stage, the DVT cancellation plug will be run and 2nd stage job cancelled. If needed see below for 2nd stage cementing program:
 Cement w/ 100sx HES light PP cmt w/ 3#/sx Salt, 12.4ppg 2.05 yield 450# 24hs CS 85% Excess followed by 100sx PP cmt w/ 1% CaCl₂, 14.8ppg 1.34 yield 1943# 24hr CS 85% Excess, Calc TOC-5000'

See COA

Description of Cement Additives: Calcium Chloride, Cal-Seal 60, Salt (Accelerator); Silicalite (Additive Material); WellLife-734 (Cement Enhancer); CFR-3 (Dispersant); WG-17 (Gelling Agent); Bentonite, Schotchlite HGS-6000 (Light Weight Additive); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-601, HR-800 (Retarder)

The above cement volumes could be revised pending the caliper measurement.

5. Pressure Control Equipment:

Surface: None

Intermediate/Production: 13-5/8" 10M three ram stack w/ 5M annular preventer, 5M Choke Manifold

The 13-5/8" 5000psi blowout prevention equipment will be installed and operational after setting the 13-3/8" surface casing; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.

The BOP and ancillary BOPE will be tested by a third party upon installation of the surface casing. All equipment will be tested to 250/5000psi for 10 minutes and charted, except the annular, which will be tested to 70% of working pressure (250/3500psi). This test will be repeated if the BOP stack is nipped down at some point, or no later than 30days after the first test. This is to be in compliance with the Onshore Order # 2. A multibowl wellhead system will be used. *See COA*

The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3 " choke line having a 5000psi WP rating. Oxy requests that the system be tested at 5000psi WP.

See COA OXY also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose that is manufactured by Contitech Rubber Industrial KFT. It is a 3" ID X 35' flexible hose rated to 10000psi working pressure. It has been tested to 15000psi and is built to API Spec 16C. Once the flex line is installed, it will be tied down with safety clamps, see attached for certifications.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid</u>	<u>Type System</u>
	<u>ppg</u>	<u>sec</u>	<u>Loss</u>	
0 - 940'	8.5-9.0	28-38	NC	Fresh Water/Spud Mud
940 - 5500'	9.8-10.2	28-32	NC	Fresh Water/NaCl Brine
5500 - 11150'	8.8-9.4	28-34	NC	Cut Brine/Sweeps
8000 - TD'	9.2-9.4	32-50	<10	Salt Gel/Starch

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.

7. 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.
- 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.

8. Logging, Coring and Testing Program:

- Drill stem tests are not anticipated but if done will be based on geological sample shows.
- The logging program will consist of a Triple Combo: GR/Den/Neu/Res/Sonic from Pilot TD to base of intermediate, GR/Neu from TD to surface. MWD-GR while drilling from KOP to TD.
- No coring program is planned but if done will be sidewall rotary cores.
- Mud logging will be initiated from the base of intermediate casing to TD.

9. Potential Hazards:

- No abnormal pressures or temperatures are anticipated. The highest anticipated pressure gradient would be 0.46 psi/ft. Maximum anticipated bottomhole pressure is 5000-5200psi.
- If H₂S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6.
- 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.



Madera 35 Fed #1H
Lea Co, New Mexico



Weatherford

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	11150.00	0.00	0.00	11150.00	0.00	0.00	0.00	0.00	0.00	PBHL Pilot

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Madera 35 Fed #1H	0.00	0.00	367007.20	774519.80	32°00'21.331N	103°26'51.824W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL Pilot	11150.00	0.00	0.00	367007.20	774519.80	Point	

SITE DETAILS

Madera 35 Fed #1H

Site Centre Northing: 367007.20

Easting: 774519.80

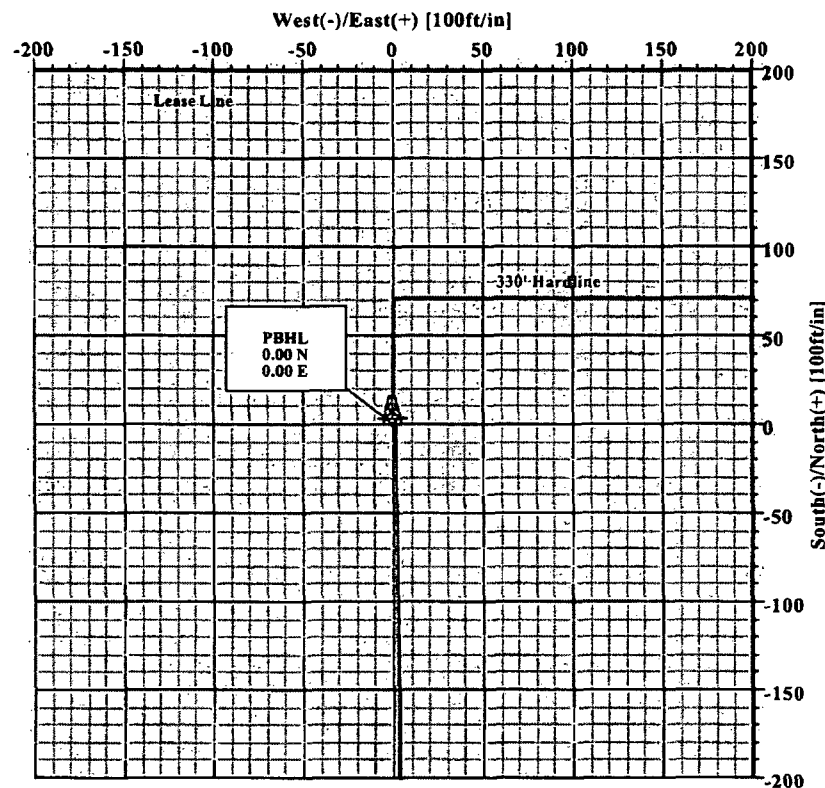
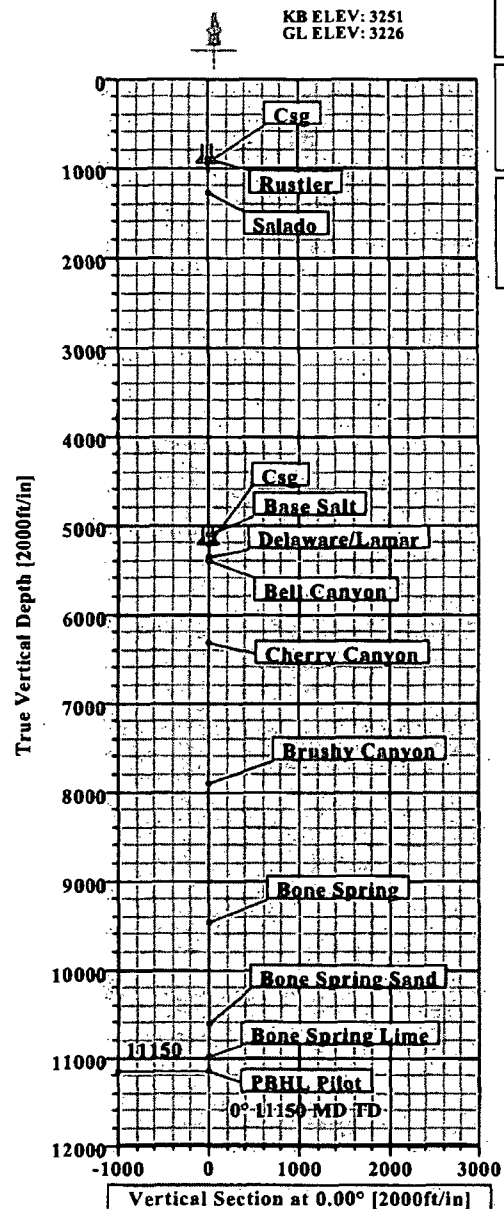
Ground Level: 3226.00

Positional Uncertainty: 0.00

Convergence: 0.47

LEGEND

Pilot
Plan #1



Plan: Plan #1 (Madera 35 Fed #1H/Pilot)

Created By: Patrick Rudolph

Date: 12/17/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

DP-2

Company:	Occidental Permian Ltd.	Date:	12/17/2012	Time:	14:04:19	Page:	1
Field:	Lea Co. New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Madera 35 Fed #1H	Grid North			
Site:	Madera 35 Fed #1H	Vertical (TVD) Reference:	SITE 3251.0				
Well:	Madera 35 Fed #1H	Section (VS) Reference:	Well (0.00N/0.00E/0.00Azi)				
Wellpath:	Pilot	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Plan:	Plan #1	Date Composed:	12/17/2012
Principal:	Yes	Version:	1
		Tied-to:	From Surface

Site:		Madera 35 Fed #1H			
Site Position:		Northing:	367007.20 ft	Latitude:	32 0 21.331 N
From:	Map	Easting:	774519.80 ft	Longitude:	103 26 51.824 W
Position Uncertainty:	0.00 ft			North Reference:	Grid
Ground Level:	3226.00 ft			Grid Convergence:	0.47 deg

Well:	Madera 35 Fed #1H	Slot Name:	
Well Position:	+N-S 0.00 ft	Northing: 367007.20 ft	Latitude: 32 0 21.331 N
	+E-W 0.00 ft	Easting: 774519.80 ft	Longitude: 103 26 51.824 W
Position Uncertainty:	0.00 ft		

Wellpath:	Pilot	Drilled From:	Surface
Current Datum:	SITE	Tie-on Depth:	0.00 ft
Magnetic Data:	3/15/2013	Above System Datum:	Mean Sea Level
Field Strength:	48348 nT	Declination:	7.30 deg
Vertical Section:	Depth From (TVD)	Mag Dip Angle:	59.96 deg
	ft	+N-S	ft
		+E-W	ft
		Direction	deg
	0.00	0.00	0.00

Plan Section Information

MD	Incl	Azim	TVD	+N-S	+E-W	DLS	Buile	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11150.00	0.00	0.00	11150.00	0.00	0.00	0.00	0.00	0.00	0.00	PBHL Pilot

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
910.00	0.00	0.00	910.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Rustler
940.00	0.00	0.00	940.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Csg
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1275.00	0.00	0.00	1275.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Salado
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

DP-3

Company:	Occidental Permian Ltd.	Date:	12/17/2012	Time:	14:04:19	Page:	2
Field:	Lee Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Madera 35 Fed #1H	Grid North			
Site:	Madera 35 Fed #1H	Vertical (TVD) Reference:	SITE 3251.0				
Well:	Madera 35 Fed #1H	Section (VS) Reference:	Well (0.00N 0.00E 0.00Az)				
Wellpath:	Pilot	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5110.00	0.00	0.00	5110.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Base Salt
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5210.00	0.00	0.00	5210.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Csg
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5370.00	0.00	0.00	5370.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Delaware/Lamar
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5405.00	0.00	0.00	5405.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Bell Canyon
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6330.00	0.00	0.00	6330.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Cherry Canyon
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	



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



Weatherford

DP-4

Company:	Occidental Permian Ltd.	Date:	12/17/2012	Time:	14:04:19	Page:	3
Field:	Lea Co., New Mexico (Nad 27)	Co-ordinate(NE)/Reference:	Well: Madera 35/Fed #1H	Grid:	North		
Site:	Madera 35 Fed #1H	Vertical (TVD) Reference:	SITE 32510				
Well:	Madera 35 Fed #1H	Section (VS) Reference:	Well (0.00N:0.00E:0.00Az)				
Wellpath:	Pilot	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD	Incl	Azlm	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Brushy Canyon
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8600.00	0.00	0.00	8600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8700.00	0.00	0.00	8700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8800.00	0.00	0.00	8800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8900.00	0.00	0.00	8900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9000.00	0.00	0.00	9000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9100.00	0.00	0.00	9100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9200.00	0.00	0.00	9200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9400.00	0.00	0.00	9400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9465.00	0.00	0.00	9465.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Bone Spring
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9600.00	0.00	0.00	9600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9700.00	0.00	0.00	9700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9800.00	0.00	0.00	9800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
9900.00	0.00	0.00	9900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10000.00	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10100.00	0.00	0.00	10100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10200.00	0.00	0.00	10200.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10300.00	0.00	0.00	10300.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10400.00	0.00	0.00	10400.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10500.00	0.00	0.00	10500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10600.00	0.00	0.00	10600.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10620.00	0.00	0.00	10620.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Bone Spring Sand
10700.00	0.00	0.00	10700.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10800.00	0.00	0.00	10800.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10900.00	0.00	0.00	10900.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
10990.00	0.00	0.00	10990.00	0.00	0.00	0.00	0.00	367007.20	774519.80	Bone Spring Lime
11000.00	0.00	0.00	11000.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
11100.00	0.00	0.00	11100.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
11150.00	0.00	0.00	11150.00	0.00	0.00	0.00	0.00	367007.20	774519.80	PBHL Pilot



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

DP-5

Company:	Occidental Permian Ltd.	Date:	12/17/2012	Time:	14:04:19	Page:	4
Field:	Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: Madera 35 Fed #1H, Grid North				
Site:	Madera 35 Fed #1H	Vertical (TVD) Reference:	SITE 3251'0"				
Well:	Madera 35 Fed #1H	Section (VS) Reference:	Well (0.00N 0.00E 0.00Azi)				
Wellpath:	Pilot	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude	Longitude
Dip	Dir	ft	ft	ft	ft	ft	Deg Min Sec	Deg Min Sec
PBHL Pilot		11150.00	0.00	0.00	367007.20	774519.80	32 0 21.331 N	103 26 51.824 W
-Plan hit target								

Casing Points

MD	TVD	Diameter	Hole Size	Name
ft	ft	in	in	
940.00	940.00	0.000	0.000	Csg
5210.00	5210.00	0.000	0.000	Csg

Annotation

MD	TVD	
ft	ft	
11150.00	11150.00	PBHL Pilot

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction
ft	ft			deg	deg
910.00	910.00	Rustler		0.00	0.00
1275.00	1275.00	Salado		0.00	0.00
5110.00	5110.00	Base Salt		0.00	0.00
5370.00	5370.00	Delaware/Lamar		0.00	0.00
5405.00	5405.00	Bell Canyon		0.00	0.00
6330.00	6330.00	Cherry Canyon		0.00	0.00
7900.00	7900.00	Brushy Canyon		0.00	0.00
9465.00	9465.00	Bone Spring		0.00	0.00
10620.00	10620.00	Bone Spring Sand		0.00	0.00
10990.00	10990.00	Bone Spring Lime		0.00	0.00

Field: Lea Co, New Mexico (Nad 27)

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

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



Madera 35 Fed #1H
Lea Co, New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	89.72	0.00	0.00	0.00	0.00	0.00	0.00	
2	8514.04	0.00	89.72	8514.04	0.00	0.00	0.00	0.00	0.00	
3	9657.45	91.47	89.72	9230.00	3.59	734.60	8.00	89.72	734.61	
4	13547.28	91.47	89.72	9130.00	22.60	4623.10	0.00	0.00	4623.16	PBHL Lateral

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Madera 35 Fed #1H	0.00	0.00	367007.20	774519.80	32°00'21.331N	103°26'51.824W	N/A

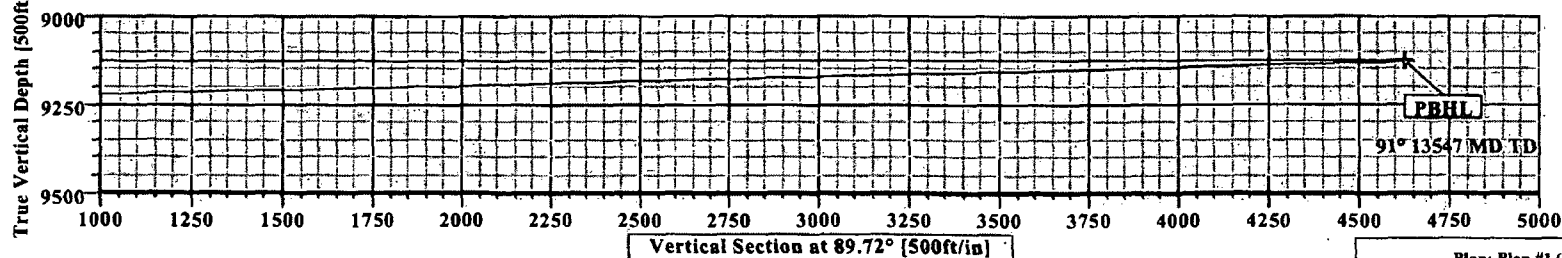
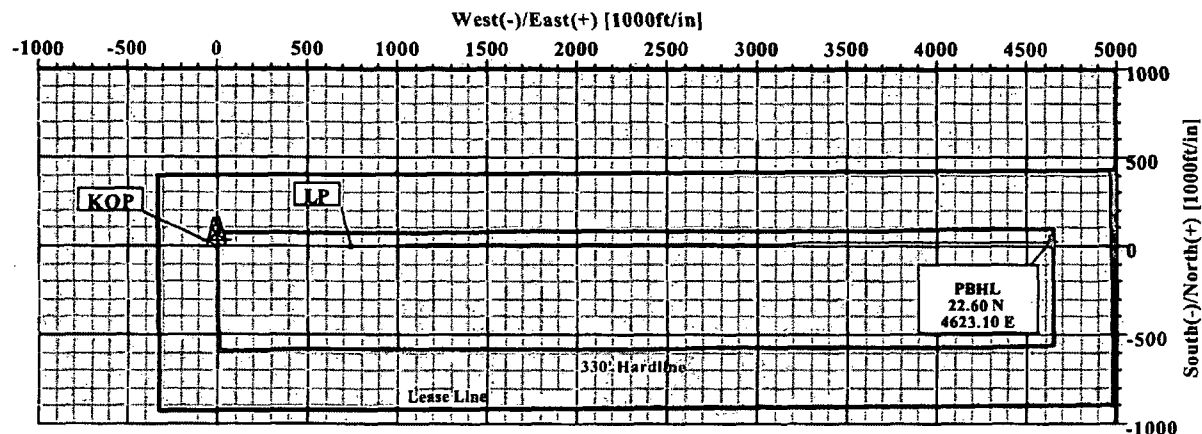
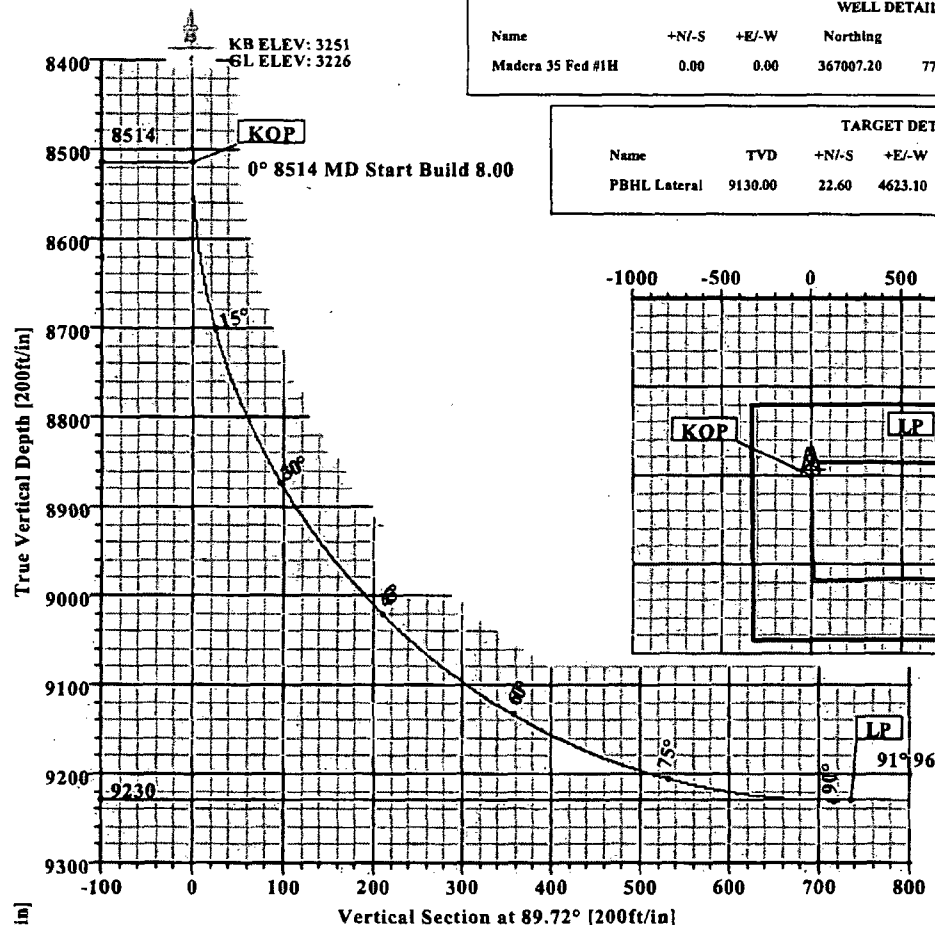
TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL Lateral	9130.00	22.60	4623.10	367029.80	779142.90	Point

SITE DETAILS

Madera 35 Fed #1H
Site Centre Northing: 367007.20
Easting: 774519.80
Ground Level: 3226.00
Positional Uncertainty: 0.00
Convergence: 0.47

LEGEND

Lateral
 Plan #1



Plan: Plan #1 (Madera 35 Fed #1H/Lateral)

Created By: Patrick Rudolph

Date: 12/17/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

DP-7

Company: Occidental Permian Ltd.	Date: 12/17/2012	Time: 14:00:23	Page: 1
Field: Lea Co. New Mexico (Nad 27)	Co-ordinate (NE) Reference: Well: Madera 35 Fed #1H; Grid: North		
Site: Madera 35 Fed #1H	Vertical (TVD) Reference: SITE 3251.0		
Well: Madera 35 Fed #1H	Section (VS) Reference: Well (0.00N:0.00E:89.72Azi)		
Wellpath: Lateral	Survey/Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #1	Date Composed: 12/17/2012
Principal: Yes	Version: 1
	Tied-to: From Surface

Site: Madera 35 Fed #1H	
Site Position: Northing: 367007.20 ft Latitude: 32 0 21.331 N	
From: Map Easting: 774519.80 ft Longitude: 103 26 51.824 W	
Position Uncertainty: 0.00 ft North Reference: Grid	
Ground Level: 3226.00 ft Grid Convergence: 0.47 deg	

Well: Madera 35 Fed #1H	Slot Name:
Well Position: +N/-S 0.00 ft Northing: 367007.20 ft Latitude: 32 0 21.331 N	
+E/-W 0.00 ft Easting: 774519.80 ft Longitude: 103 26 51.824 W	
Position Uncertainty: 0.00 ft	

Wellpath: Lateral	Drilled From: Pilot
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 3/15/2013	Above System Datum: Mean Sea Level
Field Strength: 48348 nT	Declination: 7.30 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 59.96 deg
ft	+N/-S
	+E/-W
	Direction
	deg
9130.00	0.00
	0.00
	89.72

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	89.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8514.04	0.00	89.72	8514.04	0.00	0.00	0.00	0.00	0.00	0.00	
9657.45	91.47	89.72	9230.00	3.59	734.60	8.00	8.00	0.00	89.72	
13547.28	91.47	89.72	9130.00	22.60	4623.10	0.00	0.00	0.00	0.00	PBHL Lateral

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
8500.00	0.00	89.72	8500.00	0.00	0.00	0.00	0.00	367007.20	774519.80	
8514.04	0.00	89.72	8514.04	0.00	0.00	0.00	0.00	367007.20	774519.80	KOP
8550.00	2.88	89.72	8549.98	0.00	0.90	0.90	8.00	367007.20	774520.70	
8600.00	6.88	89.72	8599.79	0.03	5.15	5.15	8.00	367007.23	774524.95	
8650.00	10.88	89.72	8649.18	0.06	12.87	12.87	8.00	367007.26	774532.67	
8700.00	14.88	89.72	8697.92	0.12	24.01	24.01	8.00	367007.32	774543.81	
8750.00	18.88	89.72	8745.75	0.19	38.52	38.52	8.00	367007.39	774558.32	
8800.00	22.88	89.72	8792.46	0.28	56.33	56.33	8.00	367007.48	774576.13	
8850.00	26.88	89.72	8837.81	0.38	77.36	77.36	8.00	367007.58	774597.16	
8900.00	30.88	89.72	8881.59	0.50	101.50	101.51	8.00	367007.70	774621.30	
8950.00	34.88	89.72	8923.57	0.63	128.64	128.64	8.00	367007.83	774648.44	
9000.00	38.88	89.72	8963.56	0.78	158.64	158.64	8.00	367007.98	774678.44	
9050.00	42.88	89.72	9001.36	0.94	191.35	191.36	8.00	367008.14	774711.15	
9100.00	46.88	89.72	9036.78	1.11	226.63	226.63	8.00	367008.31	774746.43	
9150.00	50.88	89.72	9069.66	1.29	264.28	264.29	8.00	367008.49	774784.08	
9200.00	54.88	89.72	9099.83	1.49	304.14	304.14	8.00	367008.69	774823.94	
9250.00	58.88	89.72	9127.15	1.69	346.01	346.01	8.00	367008.89	774865.81	
9300.00	62.88	89.72	9151.47	1.90	389.68	389.68	8.00	367009.10	774909.48	
9350.00	66.88	89.72	9172.70	2.13	434.94	434.94	8.00	367009.33	774954.74	
9400.00	70.88	89.72	9190.71	2.35	481.57	481.57	8.00	367009.55	775001.37	
9450.00	74.88	89.72	9205.43	2.59	529.34	529.35	8.00	367009.79	775049.14	
9500.00	78.88	89.72	9216.78	2.83	578.02	578.03	8.00	367010.03	775097.82	
9550.00	82.88	89.72	9224.71	3.07	627.38	627.39	8.00	367010.27	775147.18	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

DP-8

Company:	Occidental Permian Ltd.	Date:	12/17/2012	Time:	14:00:23	Page:	2
Field:	Lea Co. New Mexico (Nad 27)	Co-ordinate (NE) Reference:	Well: Madera 35 Fed #1H	Grid:	North		
Site:	Madera 35 Fed #1H	Vertical (TVD) Reference:	SITE 3251.0				
Well:	Madera 35 Fed #1H	Section (VS) Reference:	Well (0.00N:0.00E:89.72Azi)				
Wellpath:	Lateral	Survey/Calculation Method:	Minimum Curvature	Db:	Sybase		

Survey

MD	Incl	Azin	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
9600.00	86.88	89.72	9229.17	3.31	677.17	677.18	8.00	367010.51	775196.97	
9650.00	90.88	89.72	9230.15	3.55	727.15	727.16	8.00	367010.75	775246.95	
9657.45	91.47	89.72	9230.00	3.59	734.60	734.61	8.00	367010.79	775254.40	LP
9700.00	91.47	89.72	9228.90	3.80	777.13	777.14	0.00	367011.00	775296.93	
9800.00	91.47	89.72	9226.33	4.29	877.10	877.11	0.00	367011.49	775396.90	
9900.00	91.47	89.72	9223.76	4.78	977.07	977.08	0.00	367011.98	775496.87	
10000.00	91.47	89.72	9221.19	5.27	1077.03	1077.04	0.00	367012.47	775596.83	
10100.00	91.47	89.72	9218.62	5.75	1177.00	1177.01	0.00	367012.95	775696.80	
10200.00	91.47	89.72	9216.05	6.24	1276.96	1276.98	0.00	367013.44	775796.76	
10300.00	91.47	89.72	9213.48	6.73	1376.93	1376.95	0.00	367013.93	775896.73	
10400.00	91.47	89.72	9210.91	7.22	1476.89	1476.91	0.00	367014.42	775996.69	
10500.00	91.47	89.72	9208.34	7.71	1576.86	1576.88	0.00	367014.91	776096.66	
10600.00	91.47	89.72	9205.77	8.20	1676.83	1676.85	0.00	367015.40	776196.63	
10700.00	91.47	89.72	9203.20	8.69	1776.79	1776.81	0.00	367015.89	776296.59	
10800.00	91.47	89.72	9200.63	9.17	1876.76	1876.78	0.00	367016.37	776396.56	
10900.00	91.47	89.72	9198.06	9.66	1976.72	1976.75	0.00	367016.86	776496.52	
11000.00	91.47	89.72	9195.48	10.15	2076.69	2076.71	0.00	367017.35	776596.49	
11100.00	91.47	89.72	9192.91	10.64	2176.65	2176.68	0.00	367017.84	776696.45	
11200.00	91.47	89.72	9190.34	11.13	2276.62	2276.65	0.00	367018.33	776796.42	
11300.00	91.47	89.72	9187.77	11.62	2376.59	2376.61	0.00	367018.82	776896.39	
11400.00	91.47	89.72	9185.20	12.11	2476.55	2476.58	0.00	367019.31	776996.35	
11500.00	91.47	89.72	9182.63	12.60	2576.52	2576.55	0.00	367019.80	777096.32	
11600.00	91.47	89.72	9180.06	13.08	2676.48	2676.52	0.00	367020.28	777196.28	
11700.00	91.47	89.72	9177.49	13.57	2776.45	2776.48	0.00	367020.77	777296.25	
11800.00	91.47	89.72	9174.92	14.06	2876.42	2876.45	0.00	367021.26	777396.22	
11900.00	91.47	89.72	9172.35	14.55	2976.38	2976.42	0.00	367021.75	777496.18	
12000.00	91.47	89.72	9169.78	15.04	3076.35	3076.38	0.00	367022.24	777596.15	
12100.00	91.47	89.72	9167.21	15.53	3176.31	3176.35	0.00	367022.73	777696.11	
12200.00	91.47	89.72	9164.64	16.02	3276.28	3276.32	0.00	367023.22	777796.08	
12300.00	91.47	89.72	9162.06	16.50	3376.24	3376.28	0.00	367023.70	777896.04	
12400.00	91.47	89.72	9159.49	16.99	3476.21	3476.25	0.00	367024.19	777996.01	
12500.00	91.47	89.72	9156.92	17.48	3576.18	3576.22	0.00	367024.68	778095.98	
12600.00	91.47	89.72	9154.35	17.97	3676.14	3676.19	0.00	367025.17	778195.94	
12700.00	91.47	89.72	9151.78	18.46	3776.11	3776.15	0.00	367025.66	778295.91	
12800.00	91.47	89.72	9149.21	18.95	3876.07	3876.12	0.00	367026.15	778395.87	
12900.00	91.47	89.72	9146.64	19.44	3976.04	3976.09	0.00	367026.64	778495.84	
13000.00	91.47	89.72	9144.07	19.93	4076.00	4076.05	0.00	367027.13	778595.80	
13100.00	91.47	89.72	9141.50	20.41	4175.97	4176.02	0.00	367027.61	778695.77	
13200.00	91.47	89.72	9138.93	20.90	4275.94	4275.99	0.00	367028.10	778795.74	
13300.00	91.47	89.72	9136.36	21.39	4375.90	4375.95	0.00	367028.59	778895.70	
13400.00	91.47	89.72	9133.79	21.88	4475.87	4475.92	0.00	367029.08	778995.67	
13500.00	91.47	89.72	9131.22	22.37	4575.83	4575.89	0.00	367029.57	779095.63	
13547.28	91.47	89.72	9130.00	22.60	4623.10	4623.16	0.00	367029.80	779142.90	PBHL Lateral

Targets

Name	Description	TVD	N/S	E/W	Map	Map	Latitude	Longitude
Dip	Dip	ft	ft	ft	Northing	Easting	Deg Min Sec	Deg Min Sec
PBHL Lateral		9130.00	22.60	4623.10	367029.80	779142.90	32 0 21.176 N	103 25 58.137 W



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



Weatherford

DP-9

Company:	Occidental Permian Ltd.	Date:	12/17/2012	Time:	14:00:23	Page:	3
Field:	Lea Co, New Mexico (Nad 27)	Co-ordinate (NE) Reference:	Well: Madera 35 Fed #1H	Grid:	North		
Site:	Madera 35 Fed #1H	Vertical (TVD) Reference:	SITE 3251.0				
Well:	Madera 35 Fed #1H	Section (VS) Reference:	Well (0.00N;0.00E;89.72Az)				
Wellpath:	Lateral	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD	TVD	
ft	ft	
8514.04	8514.04	KOP
9657.45	9230.00	LP
13547.28	9130.00	PBHL

Formations

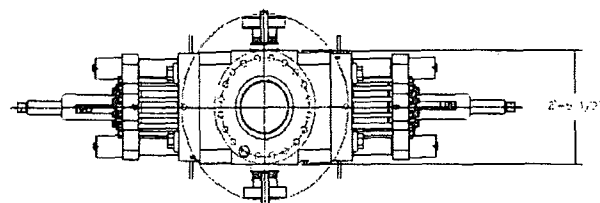
MD	TVD	Formations	Lithology	Dip/Angle	Dip/Direction
ft	ft			deg	deg
	0.00	Top Bone Spring		0.00	0.00

Field: Lea Co, New Mexico (Nad 27)

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

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

BOP



- 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 GATE VALVE
 - ⑤ - DOUBLE STUDDED ADAPTER

SHAFER BOLTED-COVER SPHERICAL ANNULAR PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), 10M BOTTOM FLANGE x 5M STUDDED TOP (HEIGHT = 14,300 LBS WITH SHAFER API 16A NOT OIL RESISTANT AERYPLOMABLE GLEVENT)

CAMERON UM DOUBLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS x TOP SEALS) IN TOP CAVITY AND CAMERON DS SHEATING PLUG RAMS IN BOTTOM CAVITY. BOTTOM FLANGE x STUDDED TOP (HEIGHT = 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 (HEIGHT APPROXIMATELY 8,000 LBS)

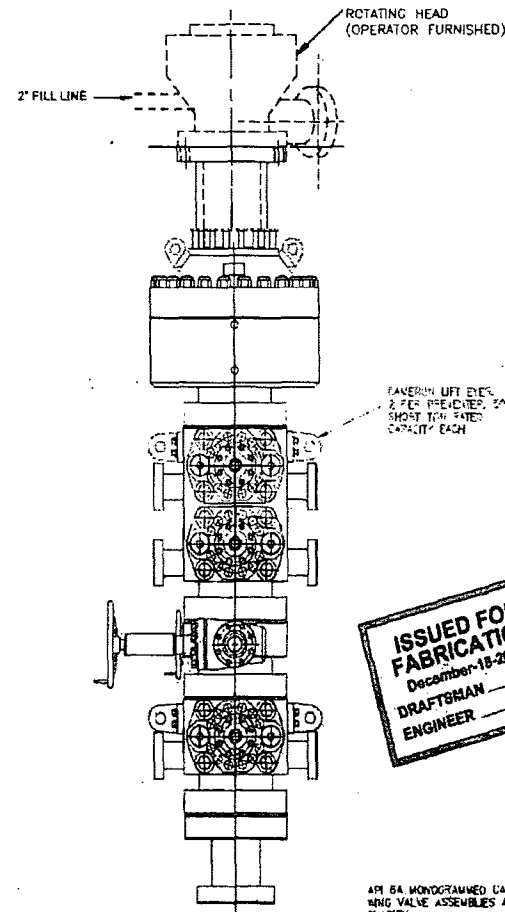
CAMERON UM SINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) BOTTOM FLANGE x STUDDED TOP (HEIGHT = 10,900 LBS)

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 HEREIN ARE THE PROPERTY OF HELMERICH & PAYNE INTERNATIONAL DRILLING CO. AND ARE NOT TO BE REPRODUCED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF A QUALIFIED OFFICER OF HELMERICH & PAYNE INTERNATIONAL DRILLING CO.



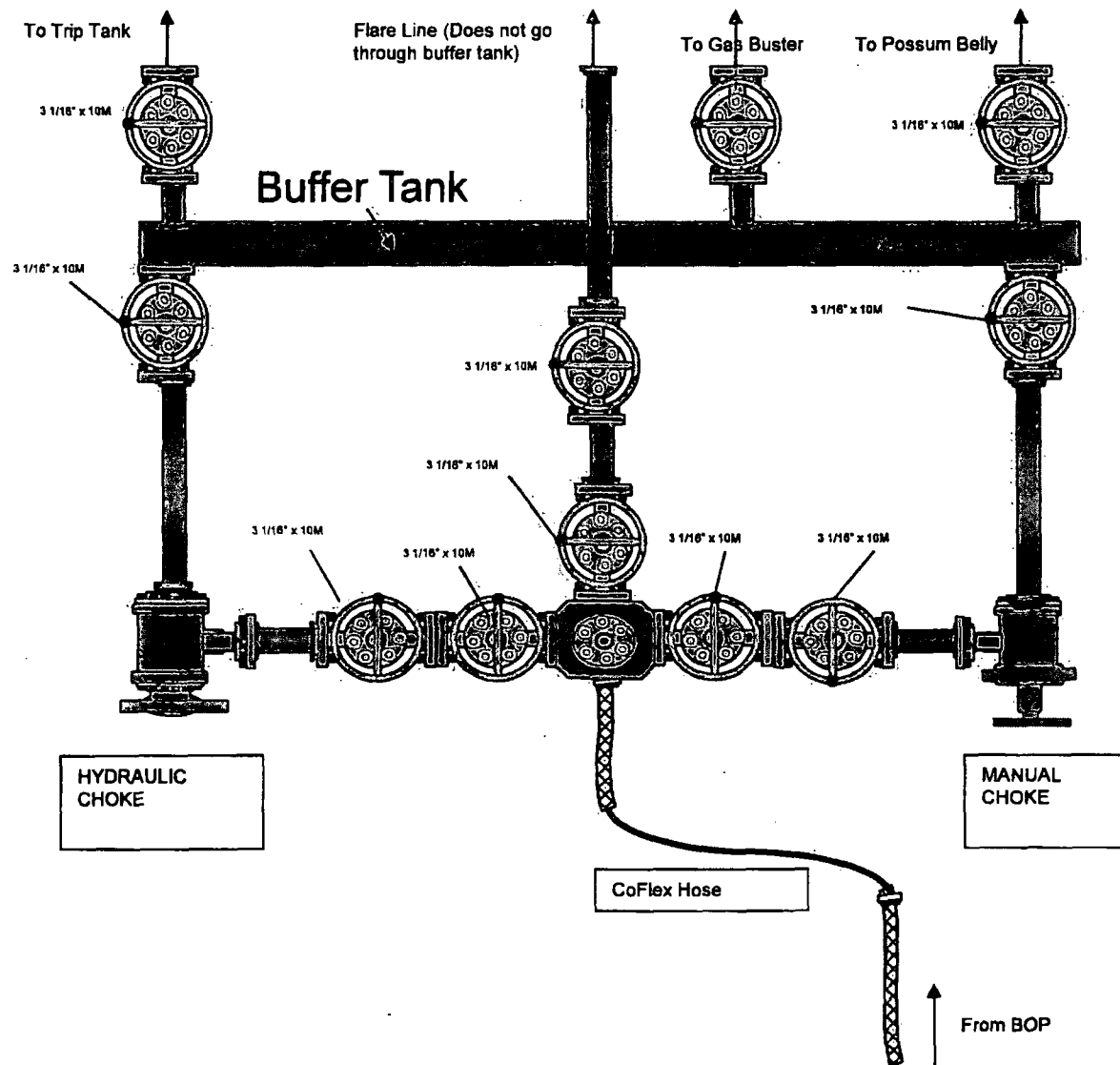
ISSUED FOR
FABRICATION
December-18-2007
DRAFTSMAN
ENGINEER

API 16A MONOGRAMMED CAMERON CHECK AND KILL VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY
WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

ENGINEERING APPROVAL		DATE	FILE
12/18/07	ADDED SHEET 03	JAY	13 5/8"-10M BOP 3 RAM STACK FLEXRIG3
4-10-07	CHANGED SMALL VALVE STACK ADAPTER SPOOLS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	JAY	
4-04-07	ADDED TO SPACER ADAPTER SPOOL	JAY	
22-07-07	ADDED ADAPTER SPOOL	JAY	
06-13-07	CORRECTED BOP STACK	JAY	
REV	DATE	DESCRIPTION	BY
1			

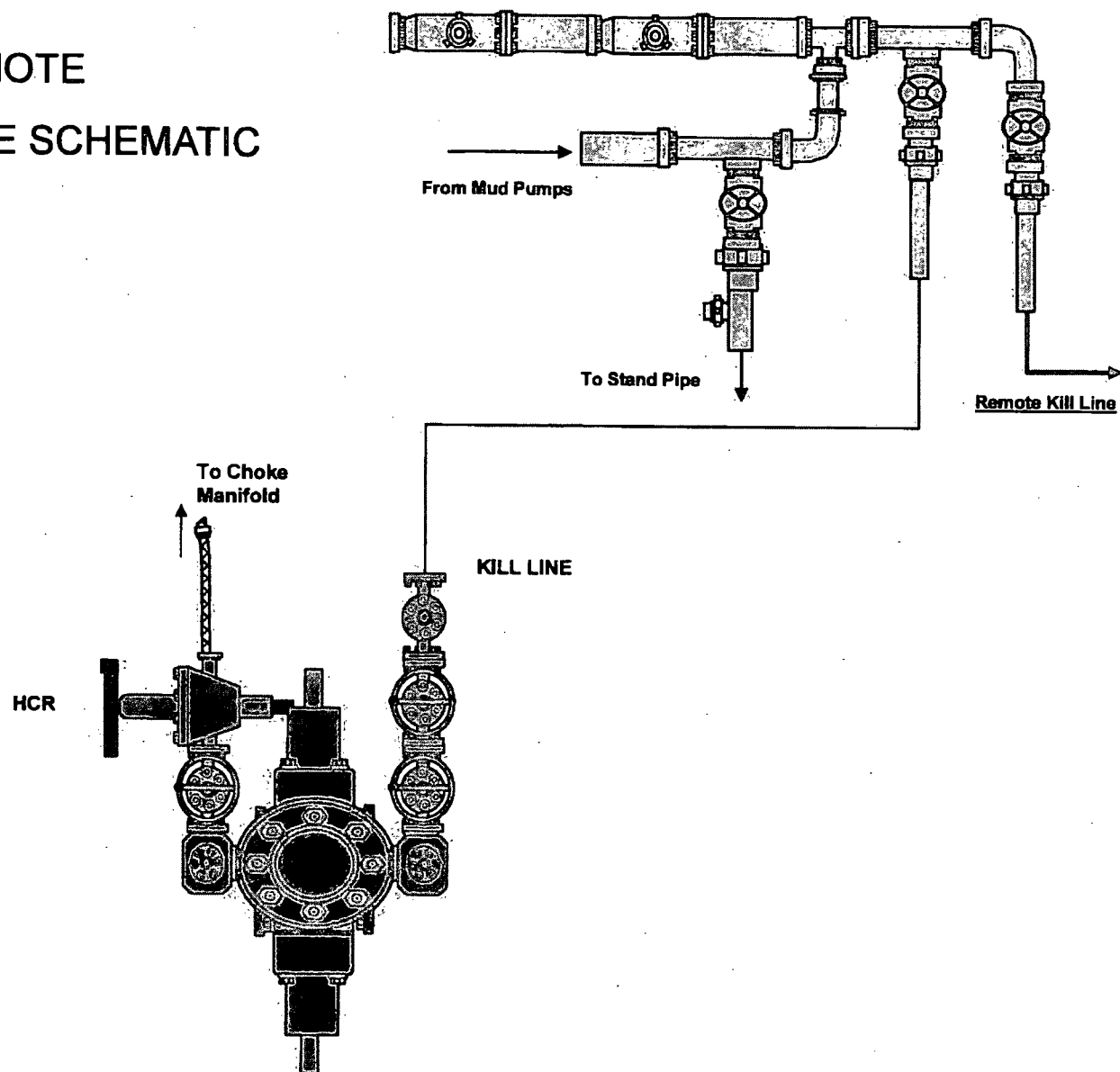
HELMERICH & PAYNE INTERNATIONAL DRILLING CO.	
13 5/8"-10M BOP 3 RAM STACK FLEXRIG3	
CUSTOMER: H&P	
PROJECT: FLEXRIG3	
DRAWN: MTS	DATE: 8-4-07
SCALE: 3/4"=1'	SHEET 1 OF 1
210-P1-07	

FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)

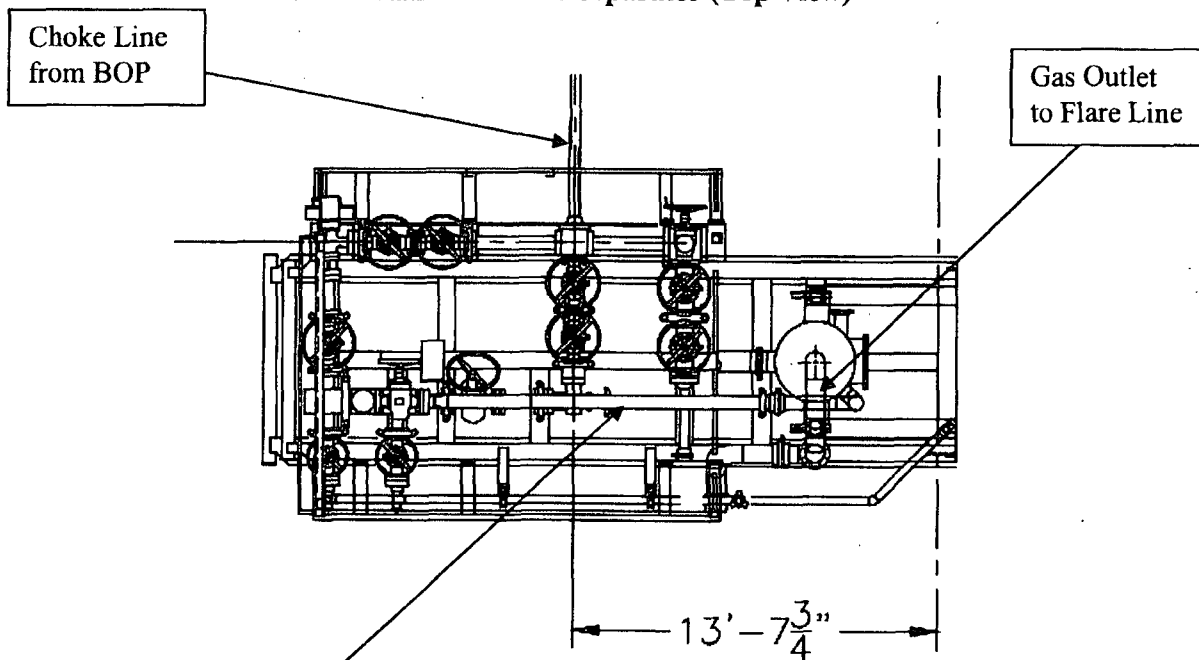


CM-2

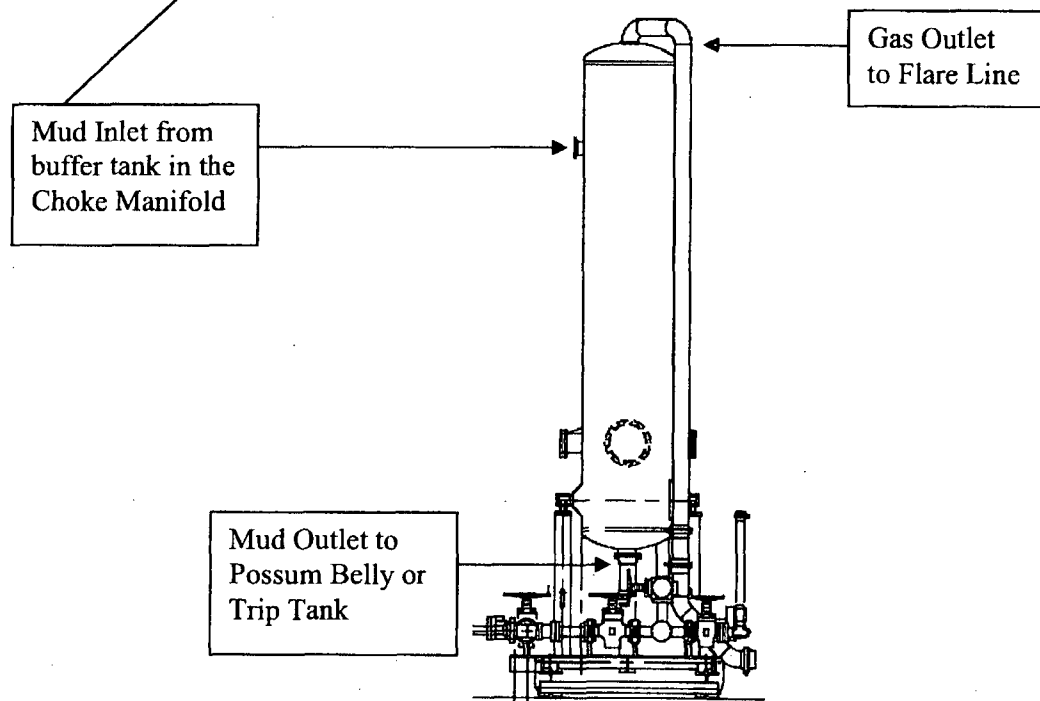
10M REMOTE KILL LINE SCHEMATIC



Choke Manifold – Gas Separator (Top View)

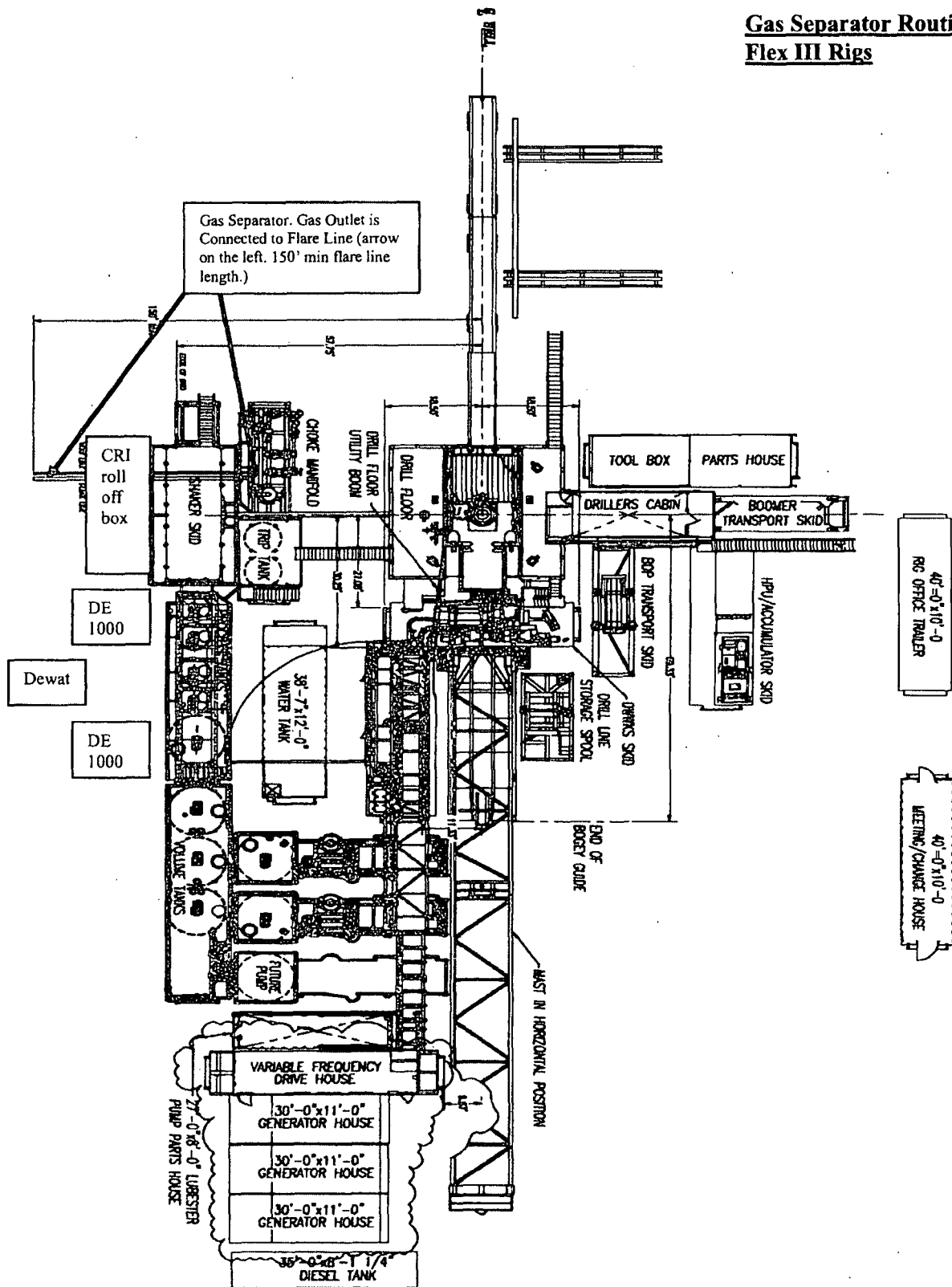


Choke Manifold – Gas Separator (Side View)



CM-4

Gas Separator Routing **Flex III Rigs**





Fluid Technology

Quality Document

CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.
Equipment : 6 pcs. Choke and Kill Hose with installed couplings
Type : 3" x 10,67 m WP: 10000 psi
Supplier File Number : 412638
Date of Shipment : April. 2008
Customer : Phoenix Beattie Co.
Customer P.o. : 002491
Referenced Standards
/ Codes / Specifications : API Spec 16 C
Serial No.: 52754,52755,52776,52777,52778,52782

STATEMENT OF CONFORMITY

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

COUNTRY OF ORIGIN HUNGARY/EU

Signed :

A handwritten signature in black ink, appearing to read "János Gábor".

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

Date: 04. April. 2008

Position: Q.C. Manager

Technical drawing of a ship's hull cross-section, showing the internal structure, including the keel, ribs, and deck. The drawing is oriented vertically, with the bow at the top and the stern at the bottom. The hull is divided into several sections by vertical lines, and the internal structure is shown in a perspective view. The drawing is labeled with various numbers and letters, indicating different parts of the hull. The overall shape is that of a traditional Chinese junk boat.

[illegible]

05/23/09.

Coflex Hose Certification

EH-3

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittonmore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: 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 OAL CH 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.

FH-5

Coflex Hose Certification



Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 746	
PURCHASER: Phoenix Beattie Co.				P.O. N°: 002491	
CONTITECH ORDER N°: 412638		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 52777		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 ~ min.	
Pressure test with water at ambient temperature See attachment. (1 page)					
↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	917	913	AISI 4130	T7998A	
			AISI 4130	26984	
INFOCHIP INSTALLED			API Spec 16 C Temperature rate: "B"		
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date:	Inspector		Quality Control		
04. April. 2008			Contitech Rubber Industrial Kft. Quality Control Dept. <i>[Signature]</i> (U) <i>[Signature]</i>		

Ft-6

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittonshire Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: info@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
HD1	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	DOFREIGHT 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 :

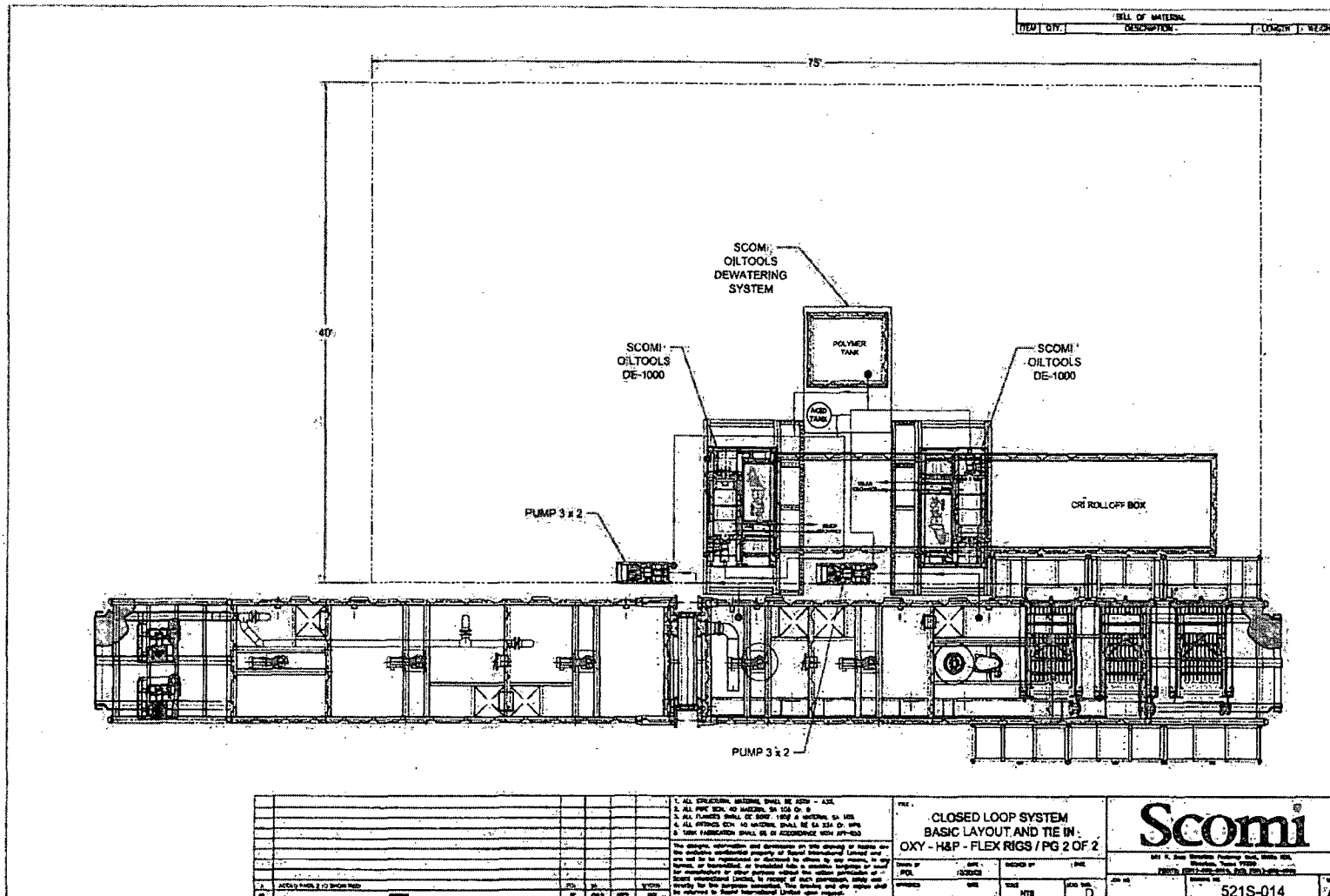
Received in Good Condition : Signature

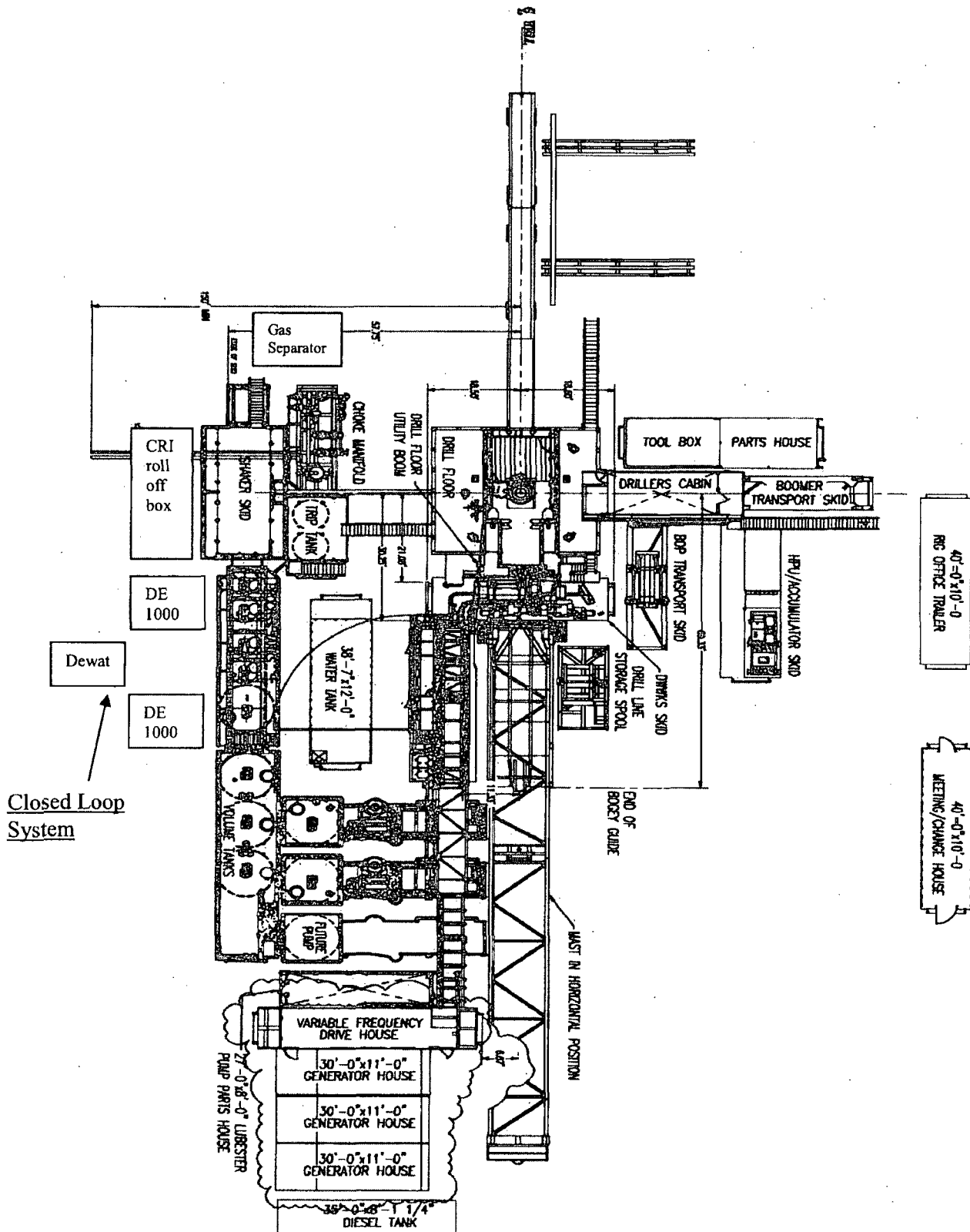
Print Name

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.

5-2377

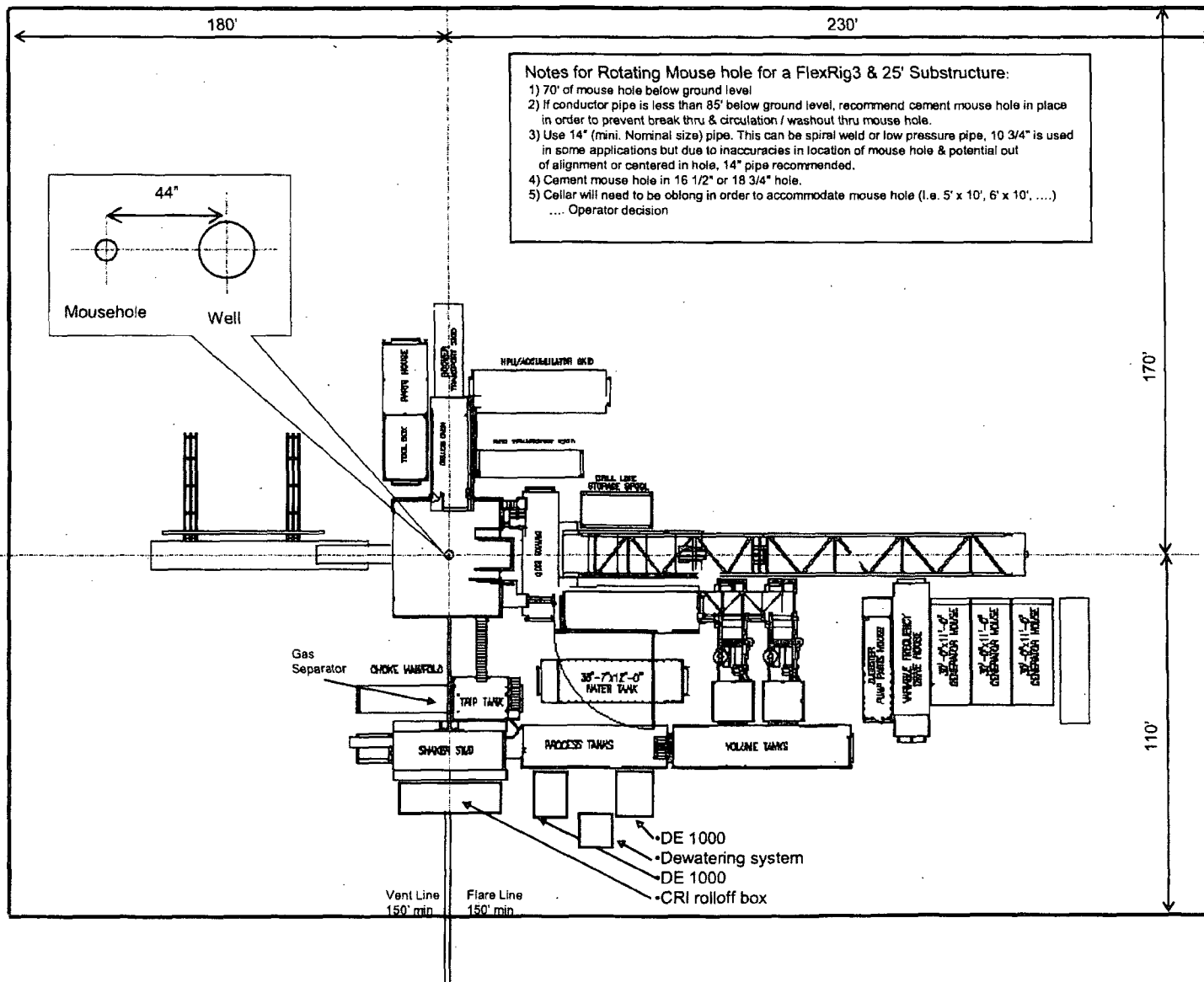




CLE2-7

OXY FLEX III PAD (SCOMI Closed Loop System)

Level Area-No Caliche-For Offices and Living Quarters



H₂S-1



HOBBS OCD

APR 01 2013

RECEIVED

**Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
Madera 35 Federal #1H**

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.

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

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

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

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

Rig Layout

Secondary Briefing Area

Exit to road. Caution sign placed here.

Primary Briefing Area

