12-1256

HOBBS OCD

MAR 15 2013

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OCD Hobbs

Form 3160-3
(April 2004)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. **NMNM110841**

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

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

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. **Madera 17 Federal #1H** <39768?

2. Name of Operator **OXY USA Inc.** <16696>

9. API Well No. **30-025-** 41059

3a. Address **P.O. Box 50250 Midland, TX 79710**

3b. Phone No. *(include area code)* **432-685-5717**

10. Field and Pool, or Exploratory ~~Undsg~~ **Jabalina Delaware, SW** <97597>

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **330 FNL 2240 FEL NWNE(B)**
At proposed prod. zone **330 FSL 2240 FEL SWSE(O)**

11. Sec., T. R. M. or Blk. and Survey or Area **Sec 17 T26S R35E**

14. Distance in miles and direction from nearest town or post office* **10 miles southwest from Jal, NM**

12. County or Parish **Lea**

13. State **NM**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **330'**

16. No. of acres in lease **280ac**

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 3361'

19. Proposed Depth Pilot Lateral **11000'V 13353'M 9058'V**

20. BLM/BIA Bond No. on file **NMB000862 - 022032304 - ESB00226**

21. Elevations (Show whether DF, KDB, RT, GL, etc.) **3254.2' 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.
2. A Drilling Plan.
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).
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 authorized officer.

25. Signature [signature] Name *(Printed/Typed)* **David Stewart** Date 1/15/13

Title **Regulatory Advisor** **david_stewart@oxy.com**

Approved by *(Signature)* /s/ Don Peterson Name *(Printed/Typed)* Date MAR 15 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.

Approval Subject to General Requirements & Special Stipulations Attached

(Instructions on page 2)

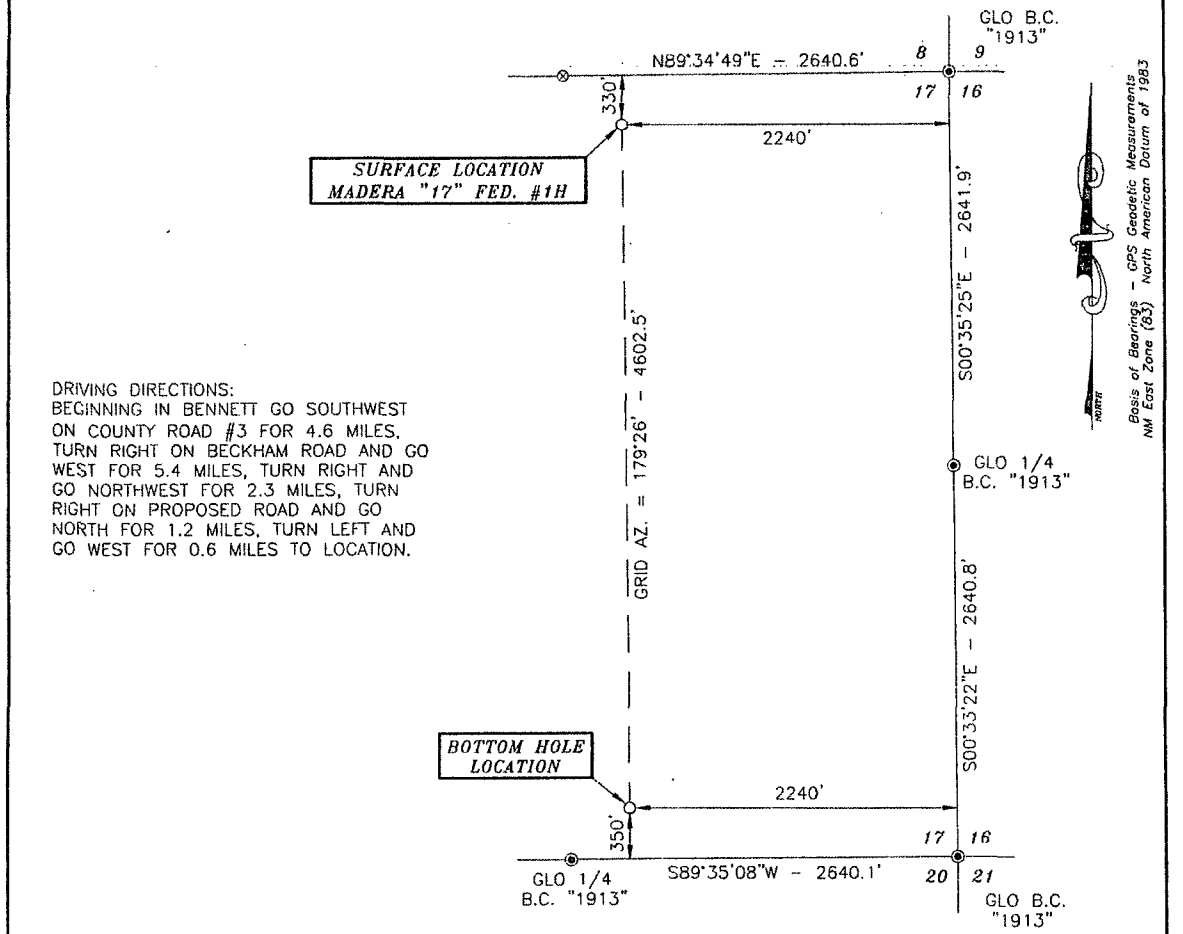
Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

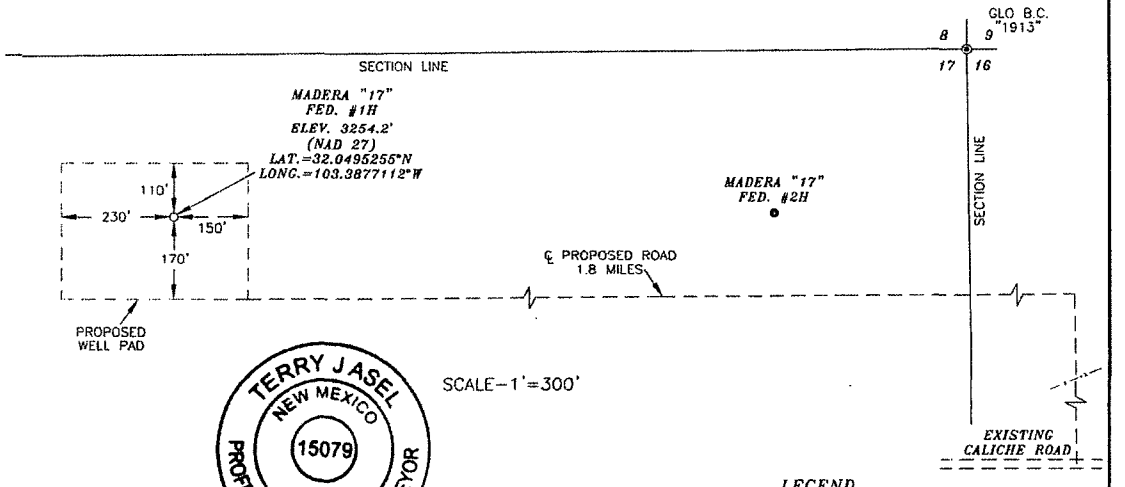
MAR 19 2013

600' x 600'

SECTION 17, TOWNSHIP 26 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY NEW MEXICO



DRIVING DIRECTIONS:
BEGINNING IN BENNETT GO SOUTHWEST ON COUNTY ROAD #3 FOR 4.6 MILES, TURN RIGHT ON BECKHAM ROAD AND GO WEST FOR 5.4 MILES, TURN RIGHT AND GO NORTHWEST FOR 2.3 MILES, TURN RIGHT ON PROPOSED ROAD AND GO NORTH FOR 1.2 MILES, TURN LEFT AND GO WEST FOR 0.6 MILES TO LOCATION.



SCALE-1"=300'

TERRY J ASEL NEW MEXICO 15079 PROFESSIONAL LAND SURVEYOR

LEGEND

◉ - DENOTES FOUND MONUMENT AS NOTED
⊗ - DENOTES CALCULATED CORNER

1000' 0 1000' 2000' FEET
SCALE: 1"=1000'

SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel 11/19/2012
Terry J. Asel N.M. R.P.L.S. No. 15079

Asel Surveying
P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146

OXY USA INC.

MADERA "17" FED. FRAC #1H LOCATED AT 330' FNL & 2240' FEL IN SECTION 17, TOWNSHIP 26 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 10/23/12	Sheet 1 of 1 Sheets	
W.O. Number: 121023WL-a	Drawn By: KA	Rev:
Date: 11/07/12	121023WL-a	Scale:1"=1000'

DRILLING PROGRAM

Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Madera 17 Federal #1H	
Pool Name/Number:	Undesignated Jabalina Delaware, SW	13367
Surface Location:	330 FNL 2240 FEL NWNE(B) Sec 17 T26S R35E	Federal Lease No.NMNM110841
Penetration Point:	612 FNL 2240 FEL NWNE(B) Sec 17 T26S R35E	
Bottom Hole Location:	330 FSL 2240 FEL SWSE(O) Sec 17 T26S R35E	

Proposed TD: Pilot Hole 11000' TVD Horizontal Lateral 9058' TVD 13353' TMD
SL - Lat: 32.0495255 **Long:** 103.3877112 X= 792986.0 Y= 383025.7 NAD - 1927
BH - Lat: 32.0368745 **Long:** 103.3876933 X= 793031.9 Y= 378423.6 NAD - 1927
Elevation: 3254.2' 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	1108'	Formation
b. Top Salt	1518'	Formation
c. Base Salt	5198'	Formation
d. Delaware	5403'	Oil
e. Bell Canyon	5448'	Oil
f. Cherry Canyon	6413'	Oil
g. Brushy Canyon	7978'	Oil
h. 1st Bone Spring	9311'	Oil
i. 2nd Bone Spring	10813'	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
	1190' See COA								
17-1/2"	0-~~1140'~~ 1190'	13-3/8"	48	ST&C	H-40	New	2.12	1.51	12.15
	~~5400'~~			Hole filled with 8.4# Mud			740#	1730#	
12-1/4"	0-~~5500'~~ 5400'	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"	0-13353'	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/ 900sx 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 11000' to +/-10000'.
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 10000' to +/-9000'.
Plug #3 cement w/ 480sx PP cmt w/ .5% CFR-3 + .2% HR-800, 17.5ppg .95 yield 4550# 24hr CS 35% Excess from 9000' to +/-8200'

d. 5-1/2" Production — Cement w/ 480sx 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:

See COA

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'

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.

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 to15000psi 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.

See COA

6. Proposed Mud Circulation System

Depth (see COA)	Mud Wt. ppg	Visc sec	Fluid Loss	Type System
0 - 1140' 1190'	8.5-9.0	28-38	NC	Fresh Water/Spud Mud
1140 - 5500' 5400'	9.8-10.2	28-32	NC	Fresh Water/NaCl Brine
5500 - 11000'	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. 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.

8. Logging, Coring and Testing Program:

a. Drill stem tests are not anticipated but if done will be based on geological sample shows.
b. 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. .
c. No coring program is planned but if done will be sidewall rotary cores.
d. Mud logging will be initiated from the base of intermediate casing to TD.

9. Potential Hazards:

a. No abnormal pressures or temperatures are anticipated. The highest anticipated pressure gradient would be 0.46 psi/ft. Maximum anticipated bottomhole pressure is 5000-5100psi.
b. If H2S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6.
c. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

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.

PR-1

Madera 17 Fed #1H
Lea Co, New Mexico

Weatherford

KB ELEV: 3279.2
GL ELEV: 3254.2

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	11000.00	0.00	0.00	11000.00	0.00	0.00	0.00	0.00	0.00	

SITE DETAILS

Madera 17 Fed #1H

Site Centre Northing: 383025.70
Easting: 792986.00

Ground Level: 3254.00
Positional Uncertainty: 0.00
Convergence: 0.50

WELL DETAILS

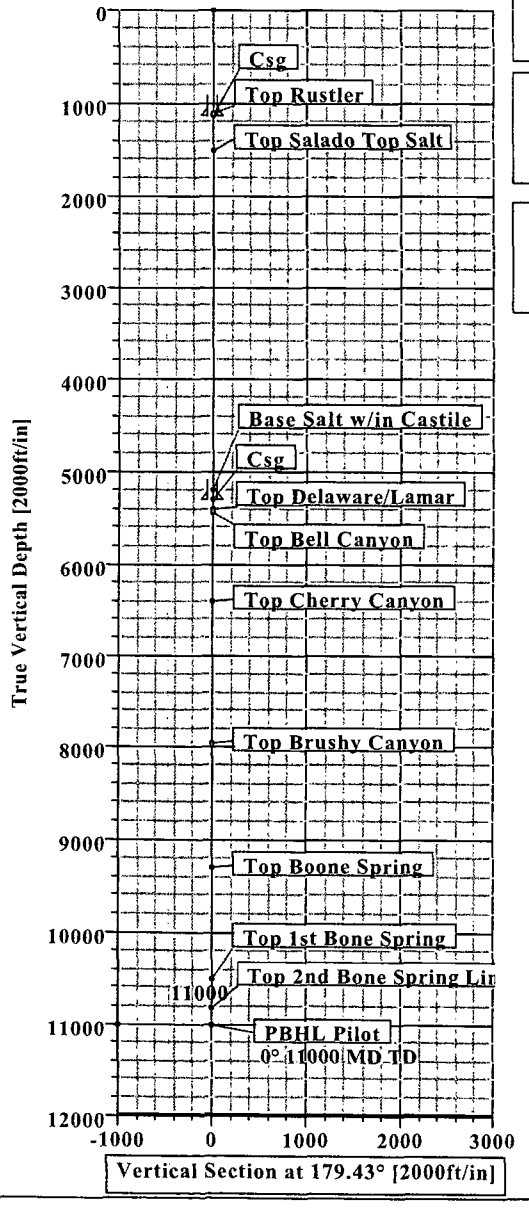
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Madera 17 Fed #1H	0.00	0.00	383025.70	792986.00	32°02'58.292N	103°23'15.761W	N/A

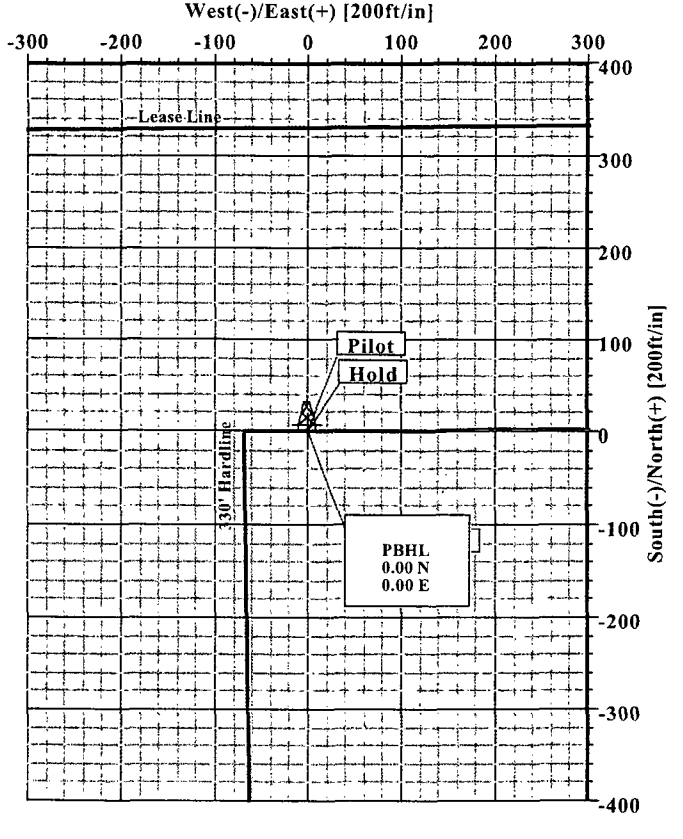
LEGEND

Pilot
Plan #1

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
None						





Plan: Plan #1 (Madera 17 Fed #1H/Pilot)

Created By: Patrick Rudolph Date: 12/17/2012

DP-2

Weatherford International Ltd.

WFT Plan Report - X & Y's

Weatherford

Company:	Occidental Permian Ltd.	**Date:** 12/17/2012 **Time:** 14:26:53	**Page:** 1
Field:	Lea Co, New Mexico (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Madera 17 Fed #1H, Grid North
Site:	Madera 17 Fed #1H	**Vertical (TVD) Reference:**	SITE 3279.2
Well:	Madera 17 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.43Azi)
Wellpath:	Pilot	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

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

Site: Madera 17 Fed #1H

Site Position:		**Northing:**	383025.70 ft	**Latitude:**	32 2 58.292	N
From:	Map	**Easting:**	792986.00 ft	**Longitude:**	103 23 15.761	W
Position Uncertainty:	0.00 ft			**North Reference:**	Grid	
Ground Level:	3254.20 ft			**Grid Convergence:**	0.50	deg

Well: Madera 17 Fed #1H **Slot Name:**

Well Position:	+N/-S 0.00 ft	**Northing:**	383025.70 ft	**Latitude:**	32 2 58.292	N
	+E/-W 0.00 ft	**Easting :**	792986.00 ft	**Longitude:**	103 23 15.761	W
Position Uncertainty:	0.00 ft					

Wellpath:	Pilot			**Drilled From:**	Surface
				Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height**	3279.20 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	3/1/2013			**Declination:**	7.28 deg
Field Strength:	48385 nT			**Mag Dip Angle:**	60.01 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	179.43

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11000.00	0.00	0.00	11000.00	0.00	0.00	0.00	0.00	0.00	0.00	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Hold
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1108.00	0.00	0.00	1108.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top Rustler
1135.00	0.00	0.00	1135.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Csg
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1518.00	0.00	0.00	1518.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top Salado Top Sal
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	

DP-3

Weatherford International Ltd.

WFT Plan Report - X & Y's

Weatherford

Company:	Occidental Permian Ltd.	**Date:**	12/17/2012	**Time:**	14:26:53	**Page:**	2
Field:	Lea Co, New Mexico (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Madera 17 Fed #1H, Grid North				
Site:	Madera 17 Fed #1H	**Vertical (TVD) Reference:**	SITE 3279.2				
Well:	Madera 17 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.43Azi)				
Wellpath:	Pilot	**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
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5198.00	0.00	0.00	5198.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Base Salt w/in Cas
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Csg
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5403.00	0.00	0.00	5403.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top Delaware/Lamar
5448.00	0.00	0.00	5448.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top Bell Canyon
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6413.00	0.00	0.00	6413.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top Cherry Canyon
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	

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Weatherford International Ltd.

WFT Plan Report - X & Y's

Weatherford

Company:	Occidental Permian Ltd.	**Date:** 12/17/2012 **Time:** 14:26:53 **Page:** 3	
Field:	Lea Co. New Mexico (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Madera 17 Fed #1H, Grid North
Site:	Madera 17 Fed #1H	**Vertical (TVD) Reference:**	SITE 3279.2
Well:	Madera 17 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.43Azi)
Wellpath:	Pilot	**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
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
7978.00	0.00	0.00	7978.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top Brushy Canyon
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8600.00	0.00	0.00	8600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8700.00	0.00	0.00	8700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8800.00	0.00	0.00	8800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8900.00	0.00	0.00	8900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9000.00	0.00	0.00	9000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9100.00	0.00	0.00	9100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9200.00	0.00	0.00	9200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9311.00	0.00	0.00	9311.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top Boone Spring
9400.00	0.00	0.00	9400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9600.00	0.00	0.00	9600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9700.00	0.00	0.00	9700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9800.00	0.00	0.00	9800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
9900.00	0.00	0.00	9900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10000.00	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10100.00	0.00	0.00	10100.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10200.00	0.00	0.00	10200.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10300.00	0.00	0.00	10300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10400.00	0.00	0.00	10400.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10500.00	0.00	0.00	10500.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10518.00	0.00	0.00	10518.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top 1st Bone Sprin
10600.00	0.00	0.00	10600.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10700.00	0.00	0.00	10700.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10800.00	0.00	0.00	10800.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
10813.00	0.00	0.00	10813.00	0.00	0.00	0.00	0.00	383025.70	792986.00	Top 2nd Bone Sprin
10900.00	0.00	0.00	10900.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
11000.00	0.00	0.00	11000.00	0.00	0.00	0.00	0.00	383025.70	792986.00	PBHL Pilot

Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	<--- Latitude ---> Deg	Min	Sec	<--- Longitude ---> Deg	Min	Sec
	Dip: Dir.											

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Weatherford International Ltd.

WFT Plan Report - X & Y's

Company:	Occidental Permian Ltd	**Date:**	12/17/2012	**Time:**	14:26:53	**Page:**	4
Field:	Lea Co, New Mexico (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Madera 17 Fed #1H, Grid North				
Site:	Madera 17 Fed #1H	**Vertical (TVD) Reference:**	SITE 3279.2				
Well:	Madera 17 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.43Azi)				
Wellpath:	Pilot	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase		

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1135.00	1135.00	0.000	0.000	Csg
5300.00	5300.00	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
0.01	0.01	Hold
11000.00	11000.00	PBHL Pilot

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1108.00	1108.00	Top Rustler		0.00	0.00
1518.00	1518.00	Top Salado Top Salt		0.00	0.00
5198.00	5198.00	Base Salt w/in Castile		0.00	0.00
5403.00	5403.00	Top Delaware/Lamar		0.00	0.00
5448.00	5448.00	Top Bell Canyon		0.00	0.00
6413.00	6413.00	Top Cherry Canyon		0.00	0.00
7978.00	7978.00	Top Brushy Canyon		0.00	0.00
9311.00	9311.00	Top Boone Spring		0.00	0.00
10518.00	10518.00	Top 1st Bone Spring		0.00	0.00
10813.00	10813.00	Top 2nd Bone Spring Lime		0.00	0.00

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

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Madera 17 Fed #1H
Lea Co, New Mexico

KB ELEV: 3279.2
GL ELEV: 3254.2

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.43	0.00	0.00	0.00	0.00	0.00	0.00	
2	8341.80	0.00	179.43	8341.80	0.00	0.00	0.00	0.00	0.00	
3	9466.80	90.00	179.43	9058.00	-716.16	7.14	8.00	179.43	716.20	
4	13352.93	90.00	179.43	9058.00	-4602.10	45.90	0.00	0.00	4602.33	Pbhl Lat

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Madera 17 Fed #1H	0.00	0.00	383025.70	792986.00	32°02'58.292N	103°23'15.761W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl Lat	9058.00	-4602.10	45.90	378423.60	793031.90	Point

LEGEND

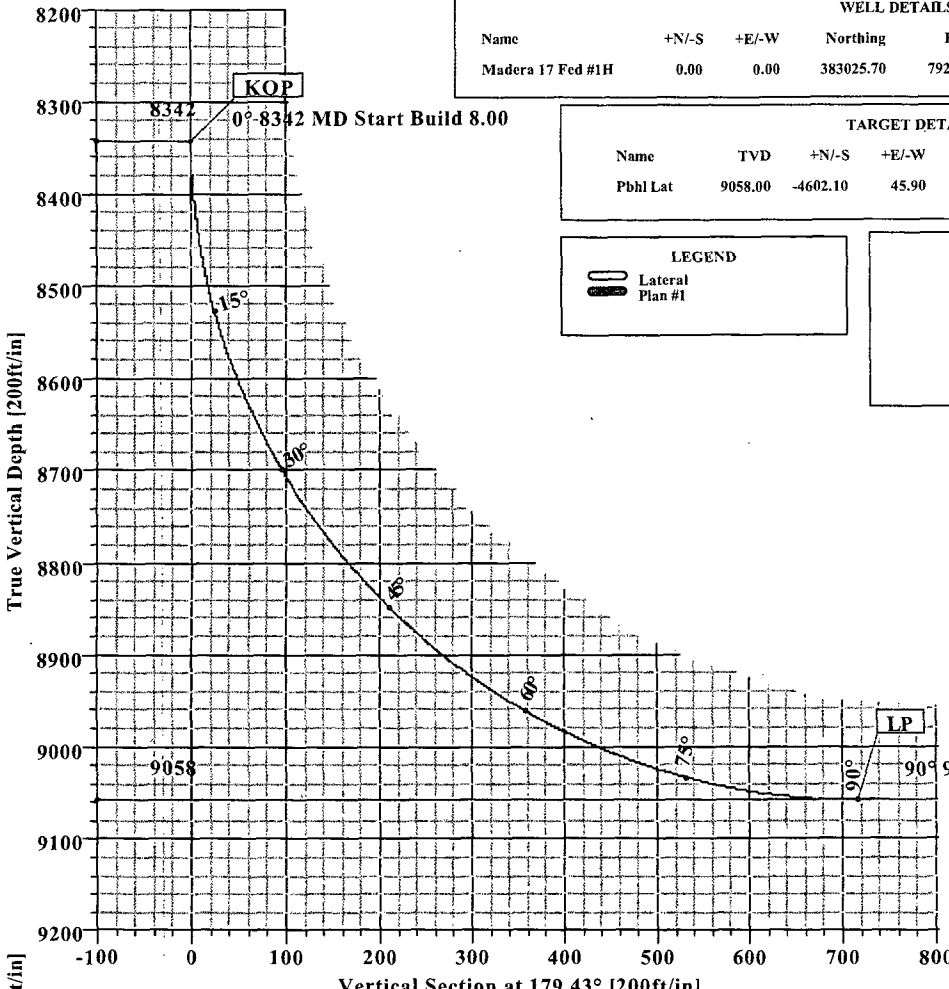
Lateral
Plan #1

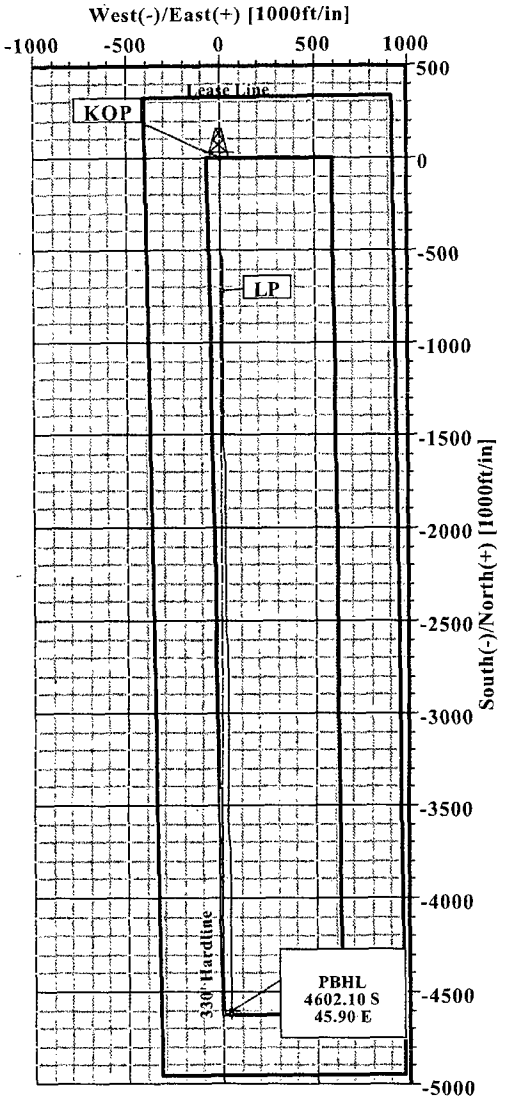
SITE DETAILS

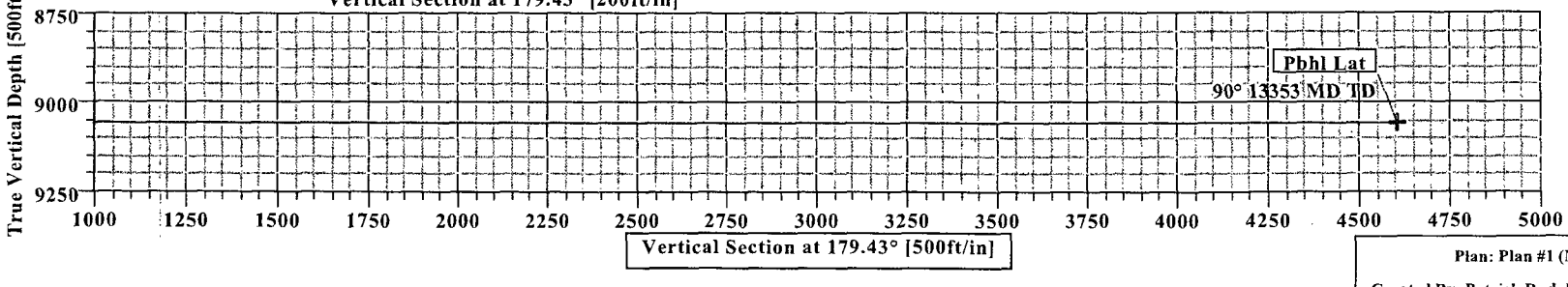
Madera 17 Fed #1H

Site Centre Northing: 383025.70
Easting: 792986.00

Ground Level: 3254.00
Positional Uncertainty: 0.00
Convergence: 0.50







Weatherford

Plan: Plan #1 (Madera 17 Fed #1H/Lateral)

Created By: Patrick Rudolph Date: 12/17/2012

DP-7

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

Company:	Occidental Permian Ltd	**Date:**	12/17/2012	**Time:**	14:27:44	**Page:**	1
Field:	Lea Co, New Mexico (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Madera 17 Fed #1H, Grid North				
Site:	Madera 17 Fed #1H	**Vertical (TVD) Reference:**	SITE 3279.2				
Well:	Madera 17 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.43Azi)				
Wellpath:	Lateral	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase		

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

Site:	Madera 17 Fed #1H								
Site Position:		**Northing:**	383025.70	ft	**Latitude:**	32	2	58.292	N
From:	Map	**Easting:**	792986.00	ft	**Longitude:**	103	23	15.761	W
Position Uncertainty:	0.00 ft				**North Reference:**			Grid	
Ground Level:	3254.20 ft				**Grid Convergence:**			0.50	deg

Well:	Madera 17 Fed #1H				**Slot Name:**				
Well Position:	+N/-S 0.00 ft	**Northing:**	383025.70	ft	**Latitude:**	32	2	58.292	N
	+E/-W 0.00 ft	**Easting :**	792986.00	ft	**Longitude:**	103	23	15.761	W
Position Uncertainty:	0.00 ft								

Wellpath:	Lateral			**Drilled From:**	Pilot
				Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height**	3279.20 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	3/1/2013			**Declination:**	7.28 deg
Field Strength:	48385 nT			**Mag Dip Angle:**	60.01 deg

Vertical Section:	**Depth From (TVD)**	**+N/-S**	**+E/-W**	**Direction**
	ft	ft	ft	deg
	0.00	0.00	0.00	179.43

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	179.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8341.80	0.00	179.43	8341.80	0.00	0.00	0.00	0.00	0.00	0.00	
9466.80	90.00	179.43	9058.00	-716.16	7.14	8.00	8.00	0.00	179.43	
13352.93	90.00	179.43	9058.00	-4602.10	45.90	0.00	0.00	0.00	0.00	Pbhl Lat

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
8300.00	0.00	179.43	8300.00	0.00	0.00	0.00	0.00	383025.70	792986.00	
8341.80	0.00	179.43	8341.80	0.00	0.00	0.00	0.00	383025.70	792986.00	KOP
8350.00	0.66	179.43	8350.00	-0.05	0.00	0.05	8.00	383025.65	792986.00	
8400.00	4.66	179.43	8399.94	-2.36	0.02	2.36	8.00	383023.34	792986.02	
8450.00	8.66	179.43	8449.59	-8.16	0.08	8.16	8.00	383017.54	792986.08	
8500.00	12.66	179.43	8498.72	-17.40	0.17	17.40	8.00	383008.30	792986.17	
8550.00	16.66	179.43	8547.08	-30.05	0.30	30.05	8.00	382995.65	792986.30	
8600.00	20.66	179.43	8594.44	-46.04	0.46	46.04	8.00	382979.66	792986.46	
8650.00	24.66	179.43	8640.58	-65.29	0.65	65.30	8.00	382960.41	792986.65	
8700.00	28.66	179.43	8685.25	-87.72	0.87	87.72	8.00	382937.98	792986.87	
8750.00	32.66	179.43	8728.26	-113.21	1.13	113.21	8.00	382912.49	792987.13	
8800.00	36.66	179.43	8769.38	-141.63	1.41	141.64	8.00	382884.07	792987.41	
8850.00	40.66	179.43	8808.41	-172.85	1.72	172.86	8.00	382852.85	792987.72	
8900.00	44.66	179.43	8845.18	-206.73	2.06	206.74	8.00	382818.97	792988.06	
8950.00	48.66	179.43	8879.49	-243.08	2.42	243.09	8.00	382782.62	792988.42	
9000.00	52.66	179.43	8911.18	-281.74	2.81	281.75	8.00	382743.96	792988.81	
9050.00	56.66	179.43	8940.10	-322.51	3.22	322.53	8.00	382703.19	792989.22	
9100.00	60.66	179.43	8966.11	-365.20	3.64	365.22	8.00	382660.50	792989.64	
9150.00	64.66	179.43	8989.07	-409.60	4.09	409.63	8.00	382616.10	792990.09	
9200.00	68.66	179.43	9008.88	-455.50	4.54	455.52	8.00	382570.20	792990.54	
9250.00	72.66	179.43	9025.44	-502.67	5.01	502.69	8.00	382523.03	792991.01	
9300.00	76.66	179.43	9038.66	-550.87	5.49	550.90	8.00	382474.83	792991.49	
9350.00	80.66	179.43	9048.50	-599.88	5.98	599.91	8.00	382425.82	792991.98	

DP-8

Weatherford International Ltd.

WFT Plan Report - X & Y's

Company:	Occidental Permian Ltd	**Date:** 12/17/2012 **Time:** 14:27:44	**Page:** 2
Field:	Lea Co, New Mexico (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Madera 17 Fed #1H, Grid North
Site:	Madera 17 Fed #1H	**Vertical (TVD) Reference:**	SITE 3279.2
Well:	Madera 17 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.43Azi)
Wellpath:	Lateral	**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
9400.00	84.66	179.43	9054.89	-649.46	6.48	649.49	8.00	382376.24	792992.48	
9450.00	88.66	179.43	9057.80	-699.36	6.98	699.40	8.00	382326.34	792992.98	
9466.80	90.00	179.43	9058.00	-716.16	7.14	716.20	8.00	382309.54	792993.14	LP
9500.00	90.00	179.43	9058.00	-749.36	7.47	749.39	0.00	382276.34	792993.47	
9600.00	90.00	179.43	9058.00	-849.35	8.47	849.39	0.00	382176.35	792994.47	
9700.00	90.00	179.43	9058.00	-949.35	9.47	949.39	0.00	382076.35	792995.47	
9800.00	90.00	179.43	9058.00	-1049.34	10.47	1049.39	0.00	381976.36	792996.47	
9900.00	90.00	179.43	9058.00	-1149.34	11.46	1149.39	0.00	381876.36	792997.46	
10000.00	90.00	179.43	9058.00	-1249.33	12.46	1249.39	0.00	381776.37	792998.46	
10100.00	90.00	179.43	9058.00	-1349.33	13.46	1349.39	0.00	381676.37	792999.46	
10200.00	90.00	179.43	9058.00	-1449.32	14.46	1449.39	0.00	381576.38	793000.46	
10300.00	90.00	179.43	9058.00	-1549.32	15.45	1549.39	0.00	381476.38	793001.45	
10400.00	90.00	179.43	9058.00	-1649.31	16.45	1649.39	0.00	381376.39	793002.45	
10500.00	90.00	179.43	9058.00	-1749.31	17.45	1749.39	0.00	381276.39	793003.45	
10600.00	90.00	179.43	9058.00	-1849.30	18.44	1849.39	0.00	381176.40	793004.44	
10700.00	90.00	179.43	9058.00	-1949.30	19.44	1949.39	0.00	381076.40	793005.44	
10800.00	90.00	179.43	9058.00	-2049.29	20.44	2049.39	0.00	380976.41	793006.44	
10900.00	90.00	179.43	9058.00	-2149.29	21.44	2149.39	0.00	380876.41	793007.44	
11000.00	90.00	179.43	9058.00	-2249.28	22.43	2249.39	0.00	380776.42	793008.43	
11100.00	90.00	179.43	9058.00	-2349.28	23.43	2349.39	0.00	380676.42	793009.43	
11200.00	90.00	179.43	9058.00	-2449.27	24.43	2449.39	0.00	380576.43	793010.43	
11300.00	90.00	179.43	9058.00	-2549.27	25.43	2549.39	0.00	380476.43	793011.43	
11400.00	90.00	179.43	9058.00	-2649.26	26.42	2649.39	0.00	380376.44	793012.42	
11500.00	90.00	179.43	9058.00	-2749.26	27.42	2749.39	0.00	380276.44	793013.42	
11600.00	90.00	179.43	9058.00	-2849.25	28.42	2849.39	0.00	380176.45	793014.42	
11700.00	90.00	179.43	9058.00	-2949.25	29.41	2949.39	0.00	380076.45	793015.41	
11800.00	90.00	179.43	9058.00	-3049.24	30.41	3049.39	0.00	379976.46	793016.41	
11900.00	90.00	179.43	9058.00	-3149.24	31.41	3149.39	0.00	379876.46	793017.41	
12000.00	90.00	179.43	9058.00	-3249.23	32.41	3249.39	0.00	379776.47	793018.41	
12100.00	90.00	179.43	9058.00	-3349.23	33.40	3349.39	0.00	379676.47	793019.40	
12200.00	90.00	179.43	9058.00	-3449.22	34.40	3449.39	0.00	379576.48	793020.40	
12300.00	90.00	179.43	9058.00	-3549.22	35.40	3549.39	0.00	379476.48	793021.40	
12400.00	90.00	179.43	9058.00	-3649.21	36.40	3649.39	0.00	379376.49	793022.40	
12500.00	90.00	179.43	9058.00	-3749.21	37.39	3749.39	0.00	379276.49	793023.39	
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12700.00	90.00	179.43	9058.00	-3949.20	39.39	3949.39	0.00	379076.50	793025.39	
12800.00	90.00	179.43	9058.00	-4049.19	40.39	4049.39	0.00	378976.51	793026.39	
12900.00	90.00	179.43	9058.00	-4149.19	41.38	4149.39	0.00	378876.51	793027.38	
13000.00	90.00	179.43	9058.00	-4249.18	42.38	4249.39	0.00	378776.52	793028.38	
13100.00	90.00	179.43	9058.00	-4349.18	43.38	4349.39	0.00	378676.52	793029.38	
13200.00	90.00	179.43	9058.00	-4449.17	44.37	4449.39	0.00	378576.53	793030.37	
13300.00	90.00	179.43	9058.00	-4549.17	45.37	4549.39	0.00	378476.53	793031.37	
13352.93	90.00	179.43	9058.00	-4602.10	45.90	4602.33	0.00	378423.60	793031.90	Pbhl Lat

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 Lat			9058.00	-4602.10	45.90	378423.60	793031.90	32	2	12.748 N	103	23	15.695 W

DP-9

Weatherford International Ltd.

WFT Plan Report - X & Y's

Company:	Occidental Permian Ltd.	**Date:**	12/17/2012	**Time:**	14:27:44	**Page:**	3
Field:	Lea Co, New Mexico (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Madera 17 Fed #1H, Grid North				
Site:	Madera 17 Fed #1H	**Vertical (TVD) Reference:**	SITE 3279.2				
Well:	Madera 17 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,179.43Azi)				
Wellpath:	Lateral	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase		

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
8341.80	8341.80	KOP
9466.80	9058.00	LP
13352.93	9058.00	PBHL

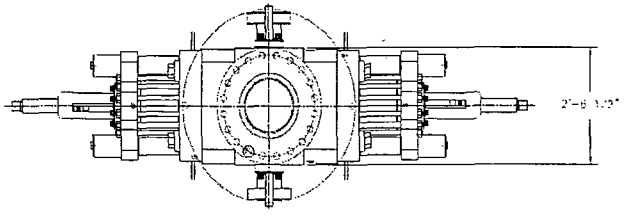
Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

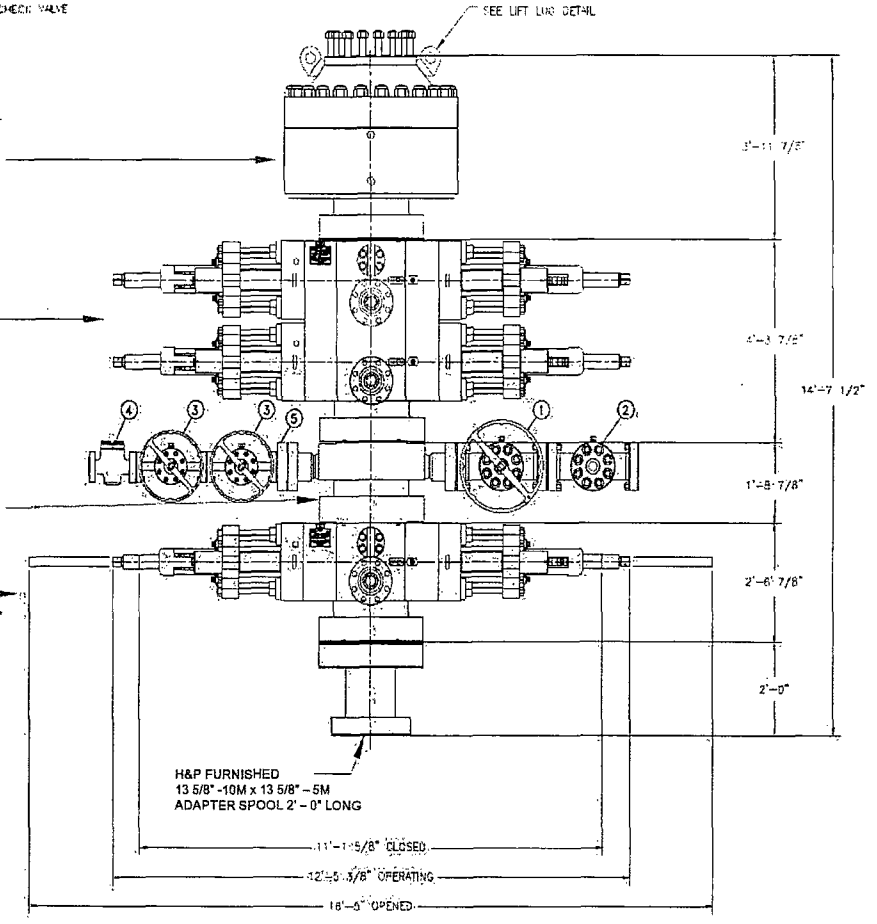
Field: Lea Co, New Mexico (Nad 27)

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

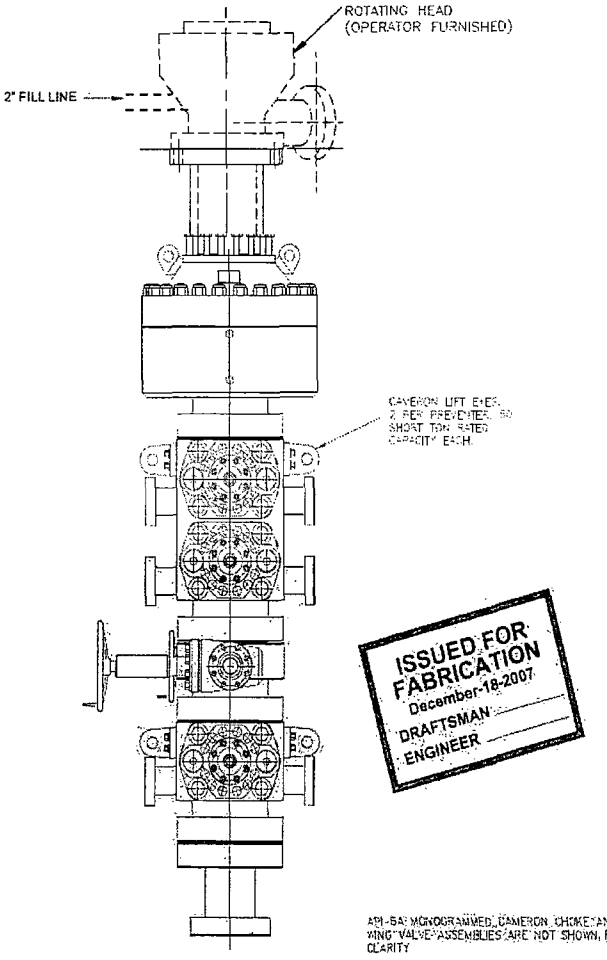
BOP



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 CHECK VALVE
5— DOUBLE STUDDED ADAPTER



13 5/8 – 10M BOP STACK WITH 13 5/8 – 5M ANNULAR



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

REV	DATE	DESCRIPTION	BY
5	12/18/07	ADDED SHEET 03	JAV
4	1-10-07	DIMENSION ADDED, DOUBLE STUDDED ADAPTER, VALVES 1, 2 & 3, AND HCR CHECK VALVE ADDED	JBG
3	12-04-07	5" ADDED TO SPACER ADAPTER SPOOL	JBG
2	09-07-07	ADDED ADAPTER SPOOL	VAL
1	06-13-02	CORRECTED BOP STACK	VAL

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

TITLE: 13 5/8"–10M BOP 3 RAM STACK FLEXRIG3

CUSTOMER: H&P

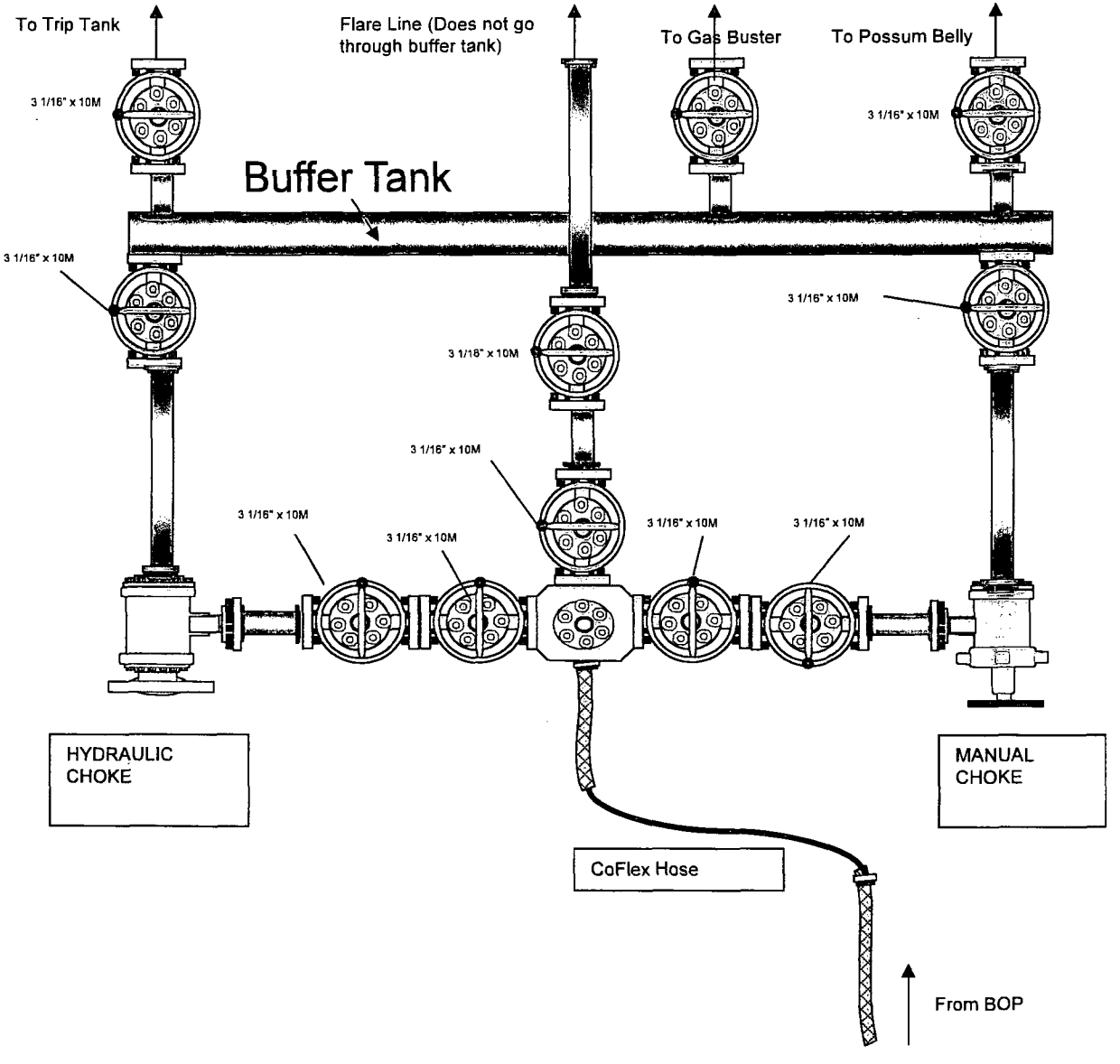
PROJECT: FLEXRIG3

DRAWN: MTS | DATE: 6-5-02 | DWG. NO. 210-P1-07 | REV. E

SCALE: 3/4"=1' | SHEET 1 OF 3

CM-1

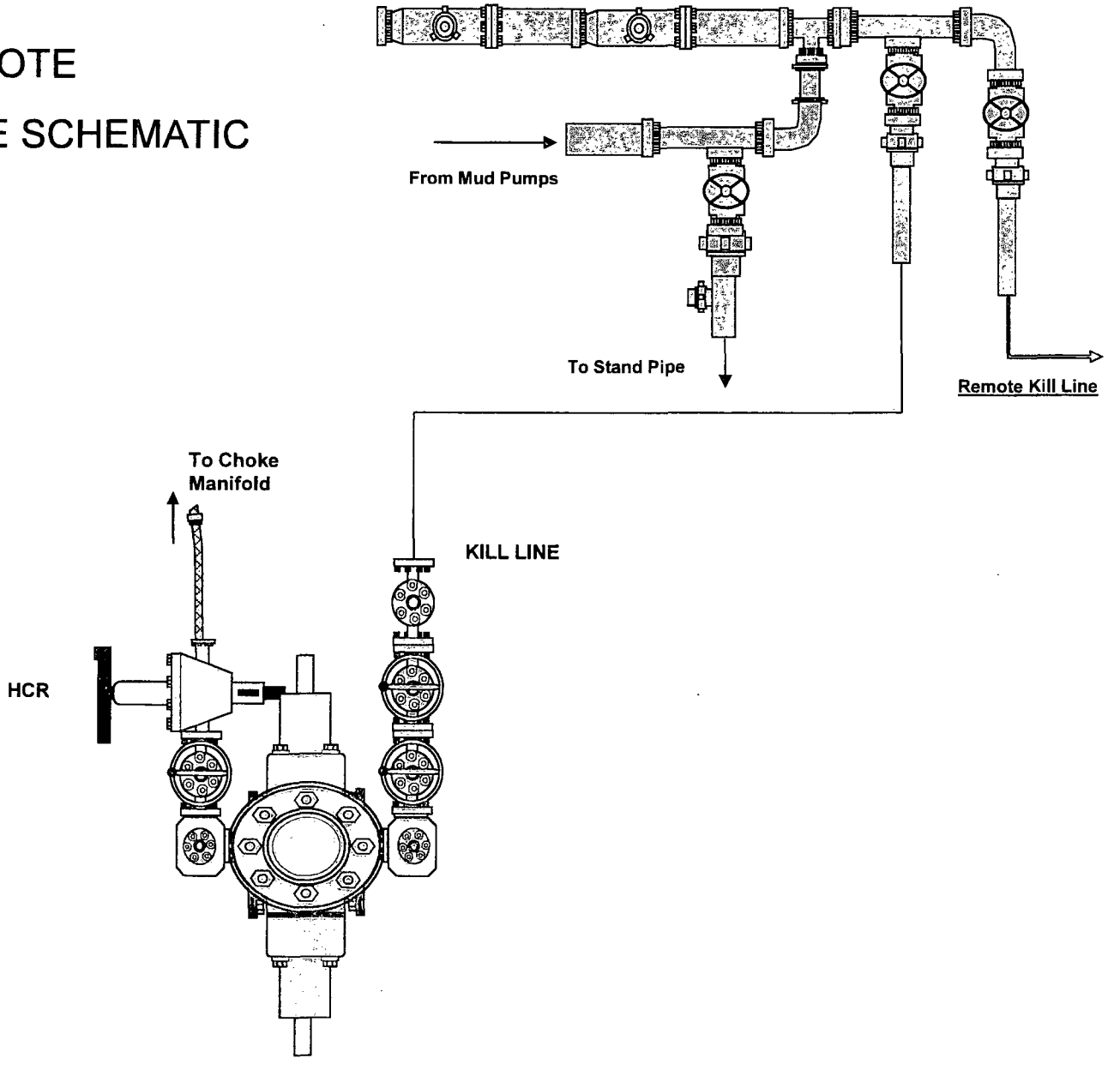
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



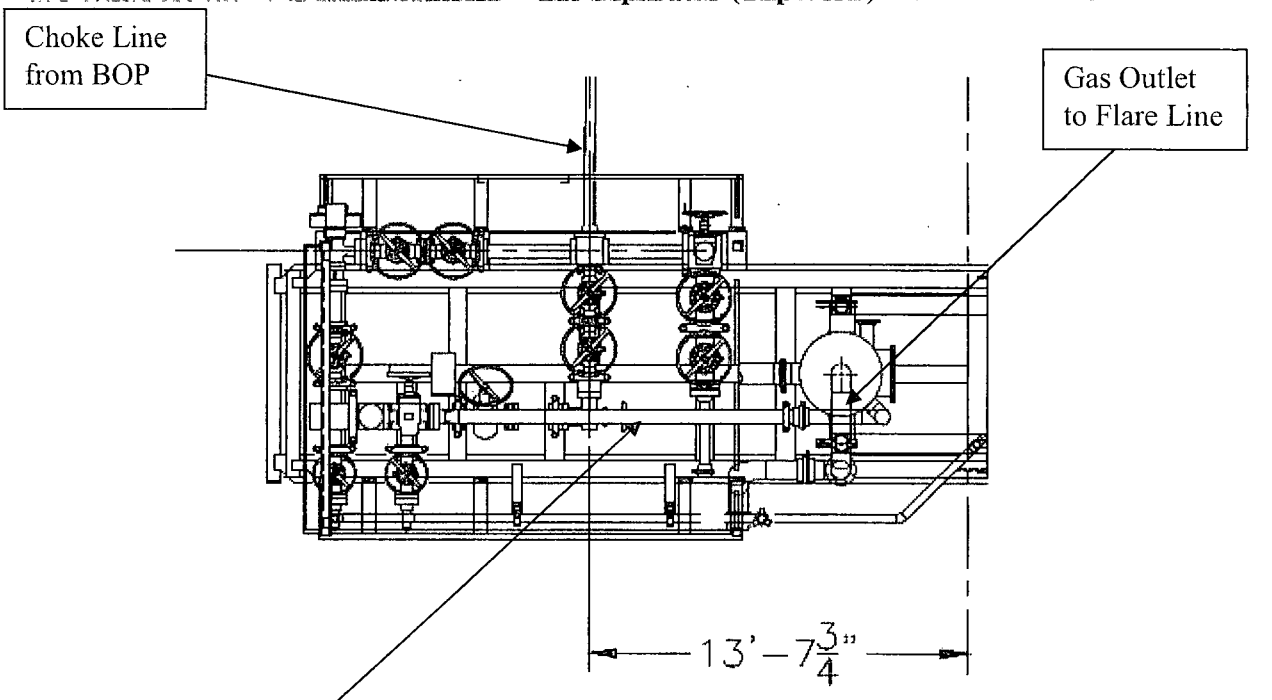
CM-2

10M REMOTE

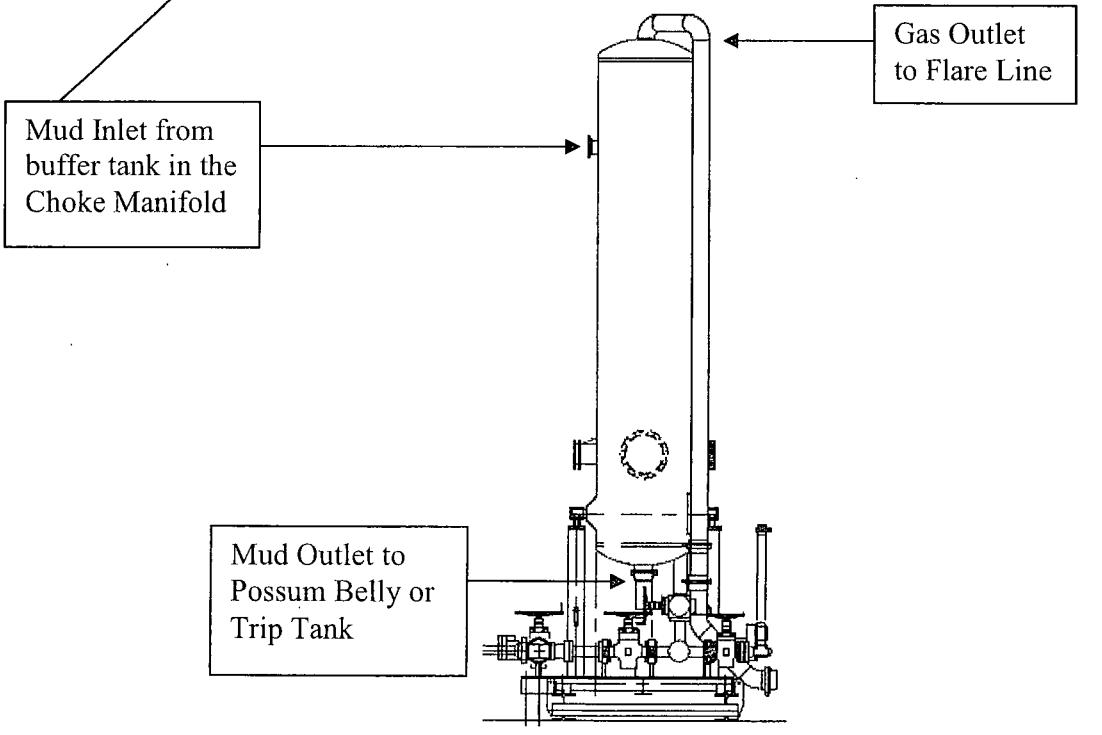
KILL LINE SCHEMATIC



Choke Manifold – Gas Separator (Top View)

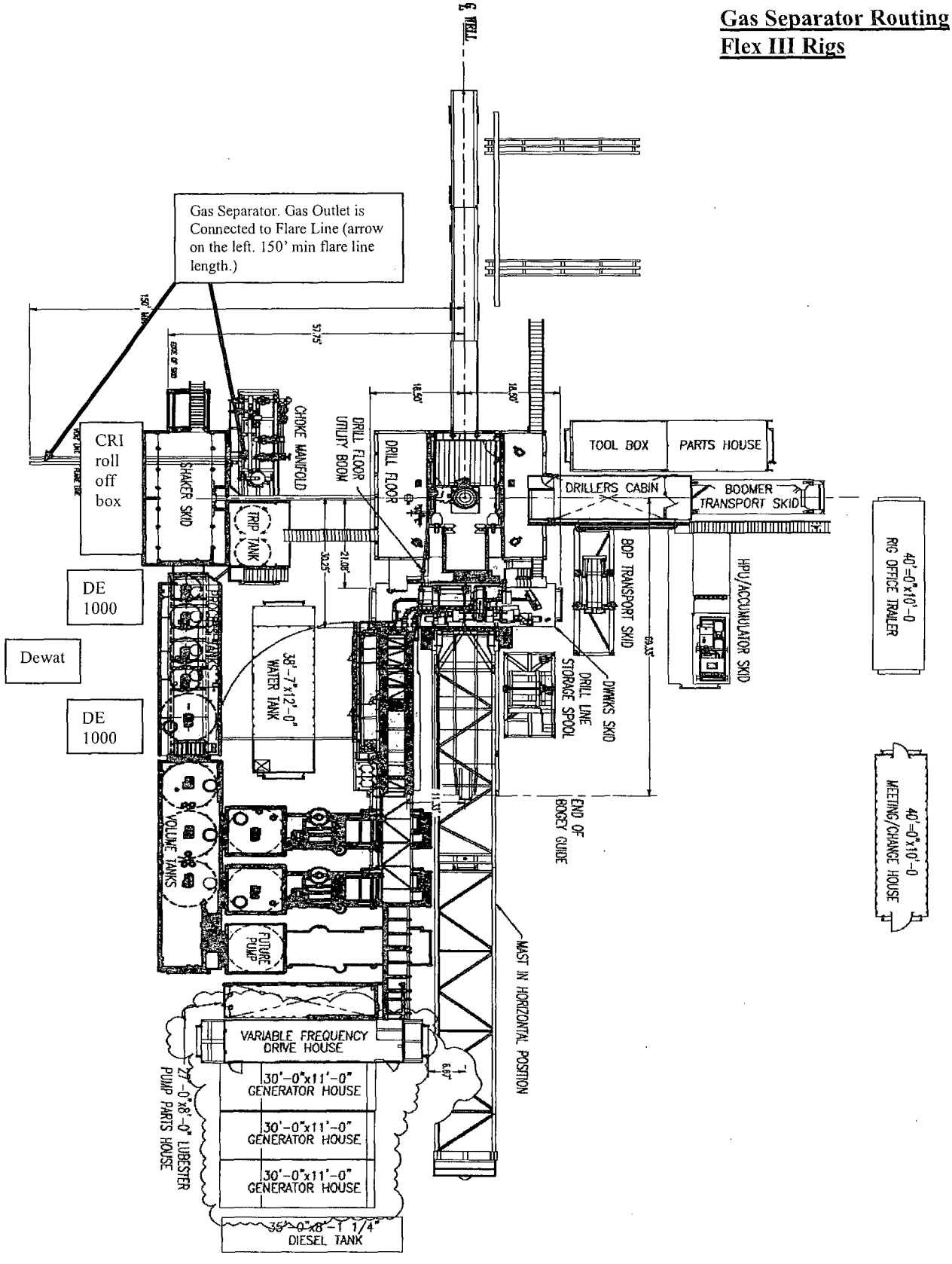


Choke Manifold – Gas Separator (Side View)



CM-4

Gas Separator Routing
Flex III Rigs



Continental CONTITECH

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 : .....

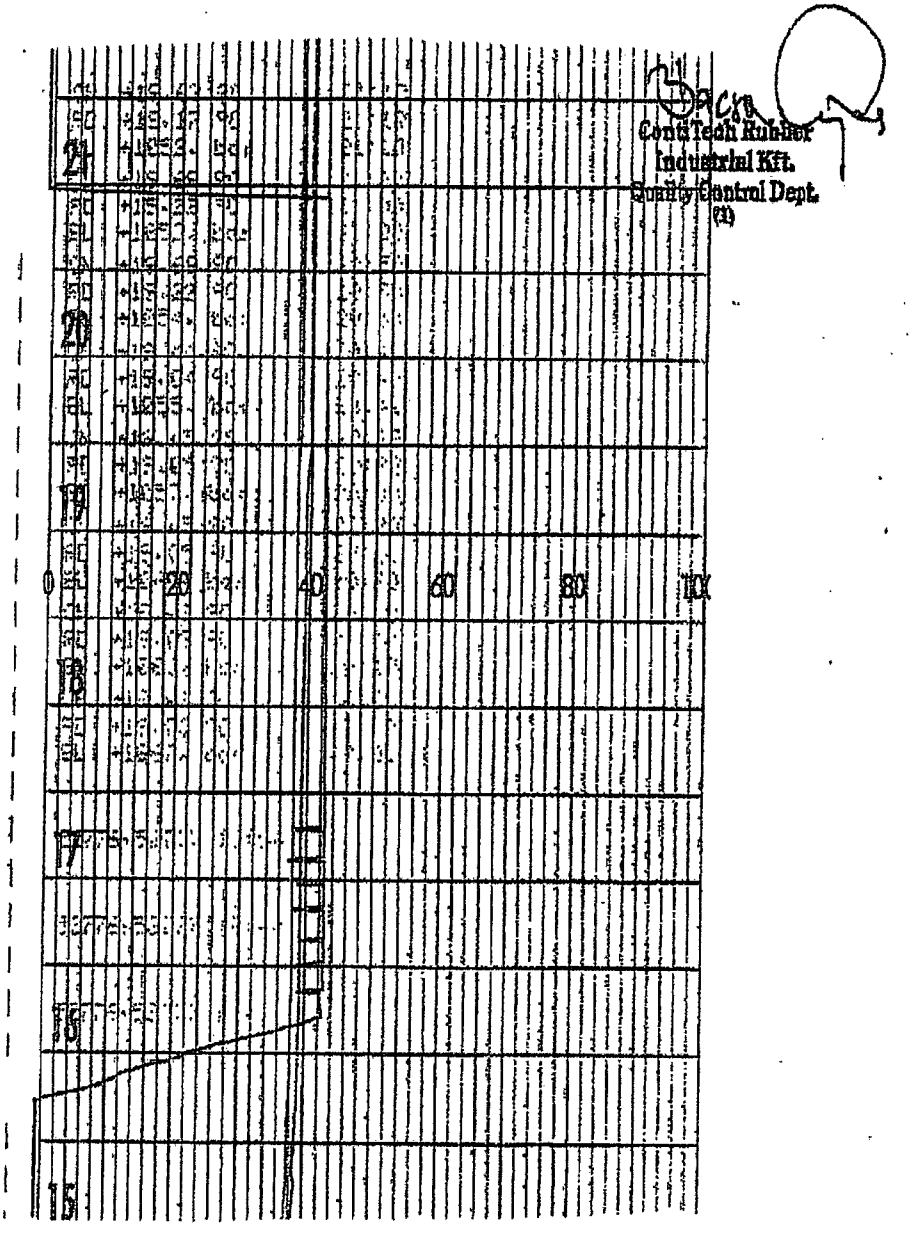
ContiTech Rubber Industrial Kft. Quality Control Dept. (1)

Date: 04. April. 2008

Position: Q.C. Manager

FH-2

Coflex Hose Certification



PHOENIX Beattie

Material Identification Certificate

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

Part No	Description	Material Desc	Material Spec	Qty	WO No	Batch No	Test Cert No	Bin No	Drg No	Issue No
HP10CK3A-35-4F1	3" 10K 16C C&K HOSE x 35ft OAL			1	2491	52777/H884		WATER		
SECK3-HPF3	LIFTING & SAFETY EQUIPMENT TO			1	2440	002440		W/STK		
SC725-200CS	SAFETY CLAMP 200MM 7.25T	CARBON STEEL		1	2519	H665		22C		
SC725-132CS	SAFETY CLAMP 132MM 7.25T	CARBON STEEL		1	2242	H139		22		

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.

05/23/08

Coflex Hose Certification

FH-W

FH-4

Coflex Hose Certification

Form No 100/12

PHOENIX Beattie

Phoenix Beattie Corp
11535 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail mail@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1

Customer / Invoice Address
HELMERICH & PAYNE INT'L DRILLING CO
1437 SOUTH BOULDER
TULSA, OK
74119

Delivery / Address
HELMERICH & PAYNE IDC
ATTN: JOE STEPHENSON - RIG 370
13609 INDUSTRIAL ROAD
HOUSTON, TX
77015

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP10CK3A-35-4F1 3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1	1	0
2	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-20DCS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

FH-5

Coflex Hose Certification

Continental CONTITECH

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	917 913	AISI 4130	T7998A
4 1/16" Flange end		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. (1)

FH-6

Coflex Hose Certification

Form No 100/12

Phoenix Beattie Corp
11535 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail mail@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		**Delivery / Address** HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	00CERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	00CERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	00FREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT	1	1	0

Phoenix Beattie Inspection Signature : _____

Received In Good Condition : Signature _____

Print Name _____

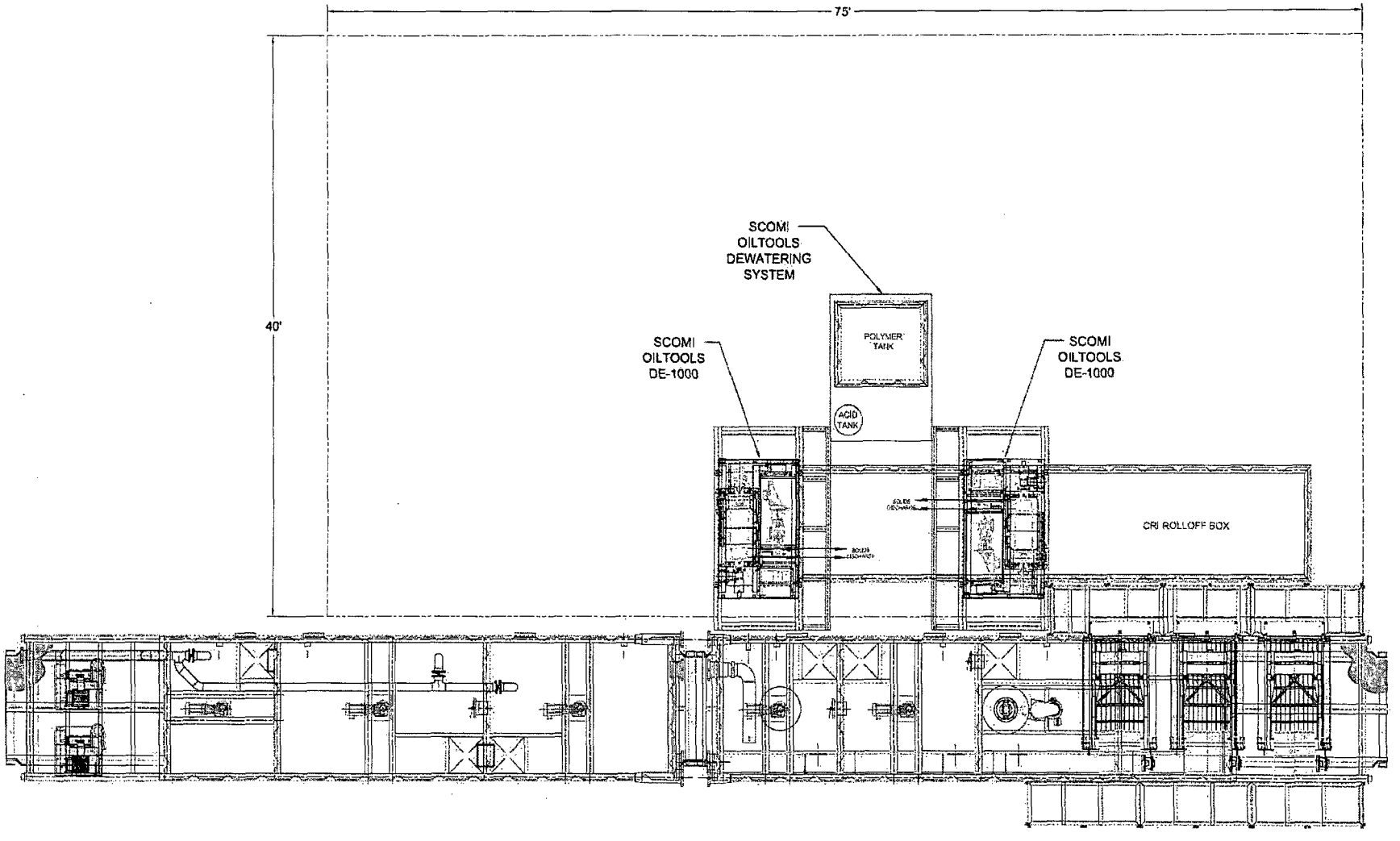
Date _____

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

CLE2-4

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT



NO	REVISION	BY	CHK'D	APP'D	DATE
A	ADDED PAGE 2 TO SHOW P&ID	PDL			9/12/08

1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36.
2. ALL PIPE SCH. 40 MATERIAL SA-106 Gr.B
3. ALL FLANGES SHALL BE SORF, 150# & MATERIAL SA 105.
4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA-234 Gr. WPB.
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

DRAWN BY	DATE	CHECKED BY	DATE
PDL	10/30/08		
APPROVED	DATE	SCALE	ADAD CHG.
		NTS	D

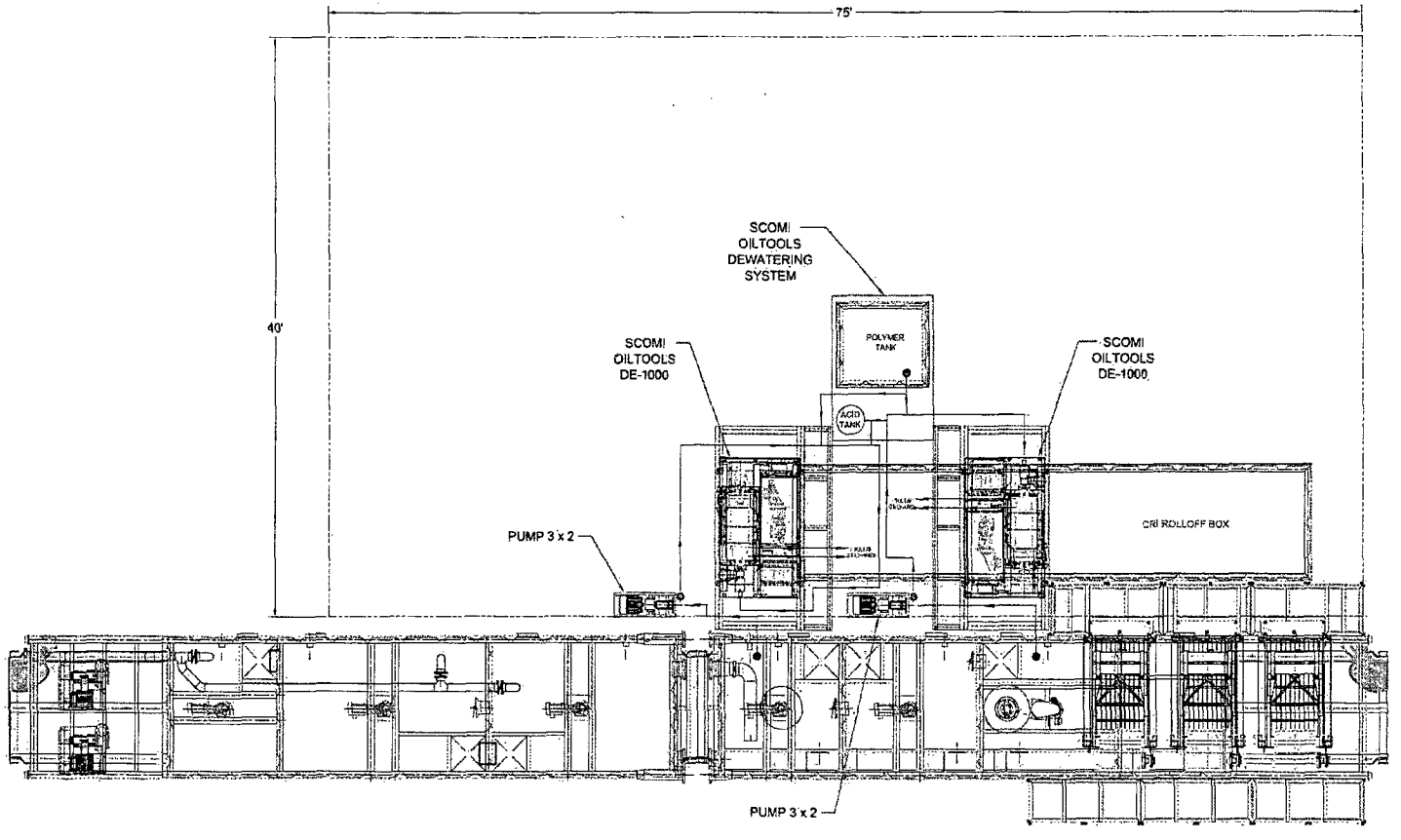
Scomi
621 N. Sam Houston Parkway East, Suite 300,
Houston, Texas 77060
PHONE: (281)-260-8016, FAX: (281)-260-8969

JOB NO.	DRAWING NO.	REV.
	521S-014	A

CLFZ-S

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT



1. ALL STRUCTURAL MATERIAL SHALL BE ASTM – A36.
2. ALL PIPE SCH. 40 MATERIAL SA 106 Gr. B
3. ALL FLANGES SHALL BE SORT, 150# & MATERIAL SA-105
4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA 234 Gr. WPB
5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API-650

NO.	REVISION	PDE BY	BY CHKD	APP'D	DATE
1	ADDED PAGE 2 TO SHOW PIER				5/12/08

TITLE:
CLOSED LOOP SYSTEM
BASIC LAYOUT AND TIE IN
OXY - H&P - FLEX RIGS / PG 2 OF 2

DRAWN BY	DATE	CHECKED BY	DATE
PDK	10/30/06		
APPROVED	DATE	SCALE	SIZE
		NTS	D

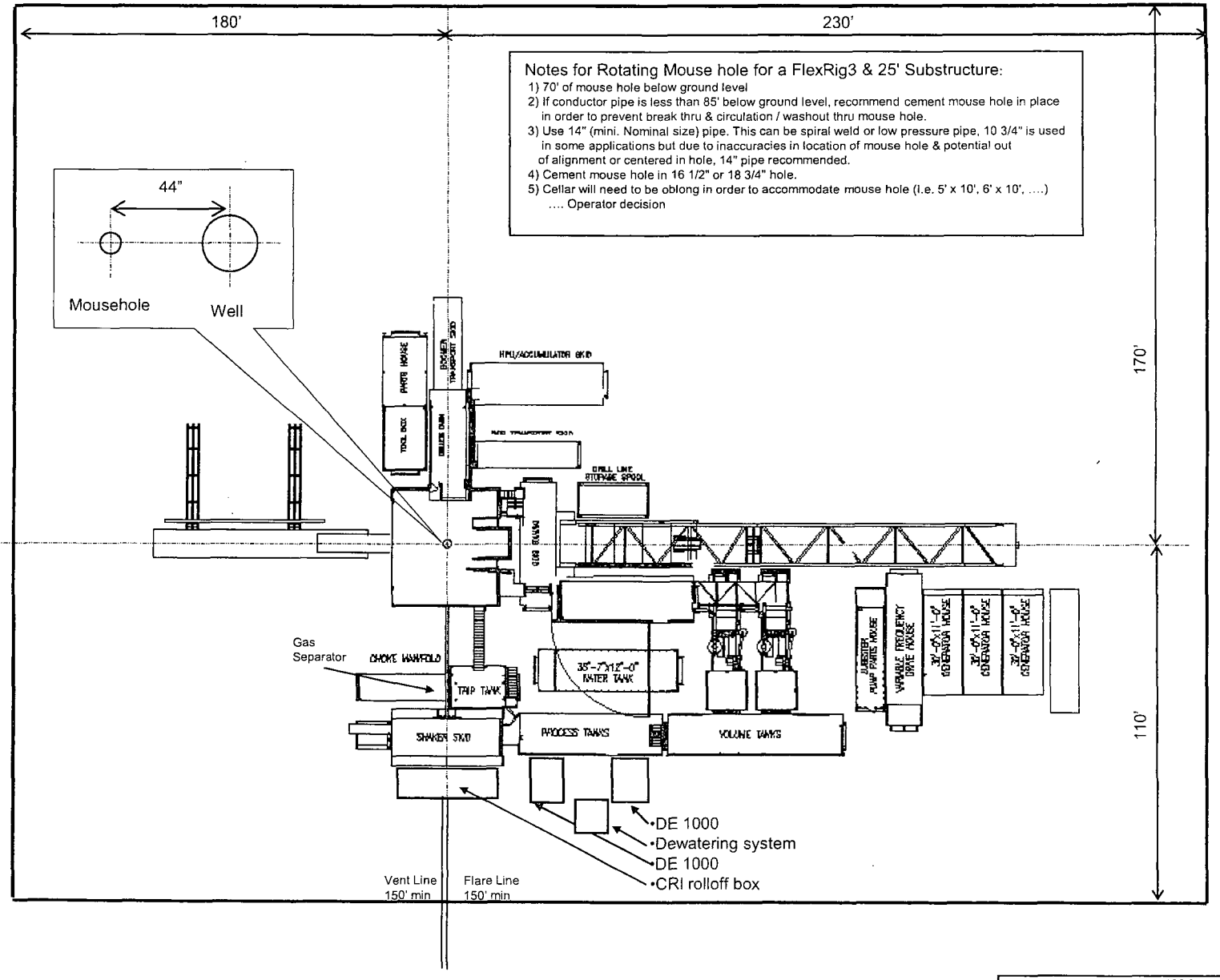
Scomi
521 N. Sam Houston Parkway East, Suite 300,
Houston, Texas 77060
PHONE: (281)-260-0014, FAX: (281)-260-0060

JOB NO.	DRAWING NO.	REV.
	521S-014	A

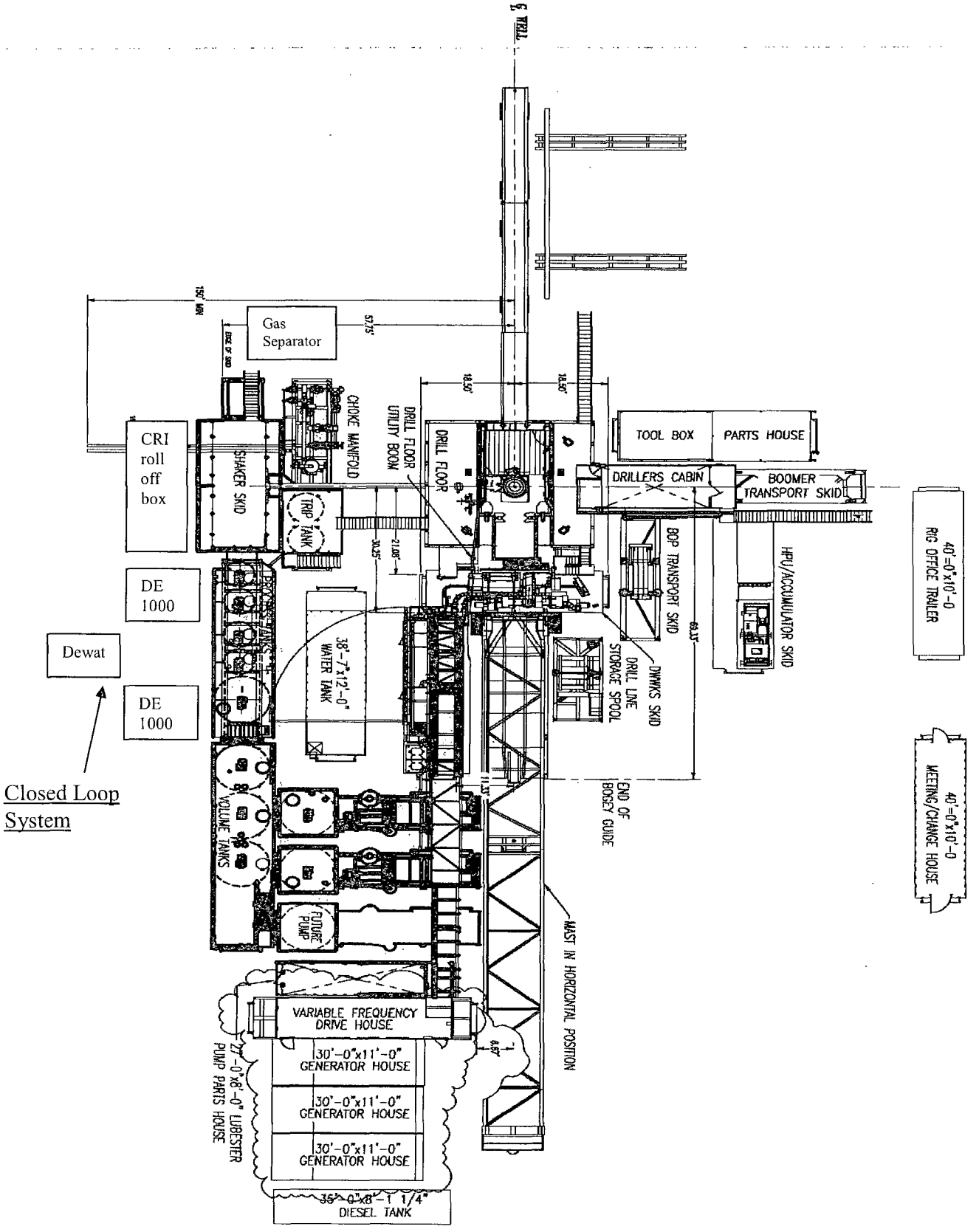
CUEZ-6

OXY FLEX III PAD (SCOMI Closed Loop System)

Level Area-No Caliche-For Offices and Living Quarters .



CLEZ-7


Gas Separator
CRI roll off box
DE 1000
Dewat
DE 1000
Closed Loop System
SHAKER SKID
CHOKE MANIFOLD
TRIP TANK
DRILL FLOOR UTILITY BOOM
DRILL FLOOR
TOOL BOX
PARTS HOUSE
DRILLERS CABIN
BOOMER TRANSPORT SKID
BOP TRANSPORT SKID
HPU/ACCUMULATOR SKID
DRILL LINE STORAGE SPOOL
DWKWKS SKID
38'-7"x12'-0" WATER TANK
VOLUME TANKS
FUTURE PUMP
END OF BOGEY GUIDE
MAST IN HORIZONTAL POSITION
VARIABLE FREQUENCY DRIVE 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
27'-0"x8'-0" LUBESTER PUMP PARTS HOUSE
40'-0"x10'-0 RIG OFFICE TRAILER
40'-0"x10'-0 MEETING/CHANGE HOUSE

CLEZ-3

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.**