

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

12-1174

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

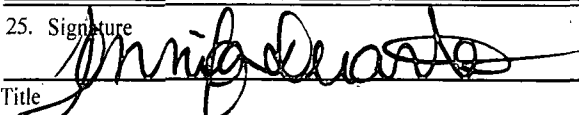
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM 82896 <b>tes</b>
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name. <b>7/24/2013</b>
2. Name of Operator <b>OXY USA INC</b>		7. If Unit or CA Agreement, Name and No.
3a. Address <b>P.O. BOX 4294 HOUSTON, TX 77210</b>		8. Lease Name and Well No. <b>NIMITZ 12 FEDERAL #3H &lt;39655&gt;</b>
3b. Phone No. (include area code) <b>&lt;16696&gt; 713-513-6640</b>		9. API Well No. <b>30-015-41011</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface <b>330' FNL &amp; 2010' FEL</b> At proposed prod. zone <b>330' FSL &amp; 2010' FEL</b>		10. Field and Pool, or Exploratory <b>POKER LAKE; DELAWARE, NW</b>
14. Distance in miles and direction from nearest town or post office* <b>35 Miles SouthEast of Carlsbad, NM</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>B, SEC 12, T24S, R30E</b>
15. Distance from proposed* <b>330'</b> location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease <b>880</b>	17. Spacing Unit dedicated to this well <b>160</b>
18. Distance from proposed location* <b>4300'</b> to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth <b>12224' MD / 7944' TVD</b>	20. BLM/BIA Bond No. on file <b>NMB000862 258000226</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>3489.5'</b>	22. Approximate date work will start* <b>01/01/2013</b>	23. Estimated duration <b>34 DAYS</b>

24. Attachments

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

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature 	Name (Printed/Typed) <b>JENNIFER DUARTE (jennifer_duarte@oxy.com)</b>	Date <b>08/23/2012</b>
Title <b>REGULATORY ANALYST</b>		
Approved by (Signature) <b>/s/ Jesse J. Juen</b>	Name (Printed/Typed) <b>Jesse J. Juen</b>	Date <b>JAN 3 - 2013</b>
Title <b>STATE DIRECTOR</b>		
Office <b>NM STATE OFFICE</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements  
& Special Stipulations Attached

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-41011</b>	Pool Code <b>96046</b>	Pool Name <b>Poker Lake; Delaware Northwest</b>
Property Code <b>39655</b>	Property Name <b>NIMITZ "12" FED.</b>	Well Number <b>3H</b>
OGRID No. <b>116696</b>	Operator Name <b>OXY USA INC.</b>	Elevation <b>3489.5'</b>

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	12	24 SOUTH	30 EAST, N.M.P.M.		330'	NORTH	2010'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	24 SOUTH	30 EAST, N.M.P.M.		330'	SOUTH	2010'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
			3 12224

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Jennifer Duarte</i> Date: <i>8/17/12</i> Printed Name: <i>Jennifer Duarte</i> Email Address: <i>jennifer-duarte@oxy.com</i></p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from reliable surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey: <i>JULY 10, 2012</i> Signature and Seal of Professional Surveyor: <i>Terry J. Paul</i> Certificate Number: <i>15079</i> WO# 120710WL-XY (KA)</p>
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### OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 23rd day of August, 2012.

Name: Peter Lawrence  
Position: Reservoir Management Team Leader  
Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046  
Telephone: 713-215-7644  
E-mail: (optional): peter\_lawrence@oxy.com  
Company: OXY USA Inc.  
Field Representative (if not above signatory): Dusty Weaver  
Address (if different from above): P.O. Box 50250 Midland, TX 79710  
Telephone (if different from above): 432-685-5723  
E-mail (if different from above): calvin\_weaver@oxy.com

**OXY USA Inc**  
**Nimitz 12 Federal 3H**  
**APD Data**

OPERATOR NAME / NUMBER: OXY USA Inc

16696

LEASE NAME / NUMBER: Nimitz 12 Federal 3H

Federal Lease No:

STATE: NM

COUNTY: Eddy

SURFACE LOCATION: 330' FNL & 2010' FEL, Sec 12, T24S, R30E

BOTTOM HOLE LOCATION: 330' FSL & 2010' FEL, Sec. 12, T24S, R30E

C-102 PLAT APPROX GR ELEV: 3489.5' EST KB ELEV: 3513.5' (24' KB)

**1. GEOLOGIC NAME OF SURFACE FORMATION**

a. Permian

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

Formation Tops	TV Depth Top	Expected Fluids
T. Rustler	520	-
T. Salado	940	-
T. Lamar	4250	-
Bell Canyon	4300	-
Cherry Canyon	5150	-
Brushy Canyon	6450	Oil
T. Brushy Canyon A2	7919	Oil
Target TD (TVD)	7944	Oil
B. Brushy Canyon A2	7984	Oil

A. Fresh water has been found above the Rustler. The deepest water zone in the area has been found at 400' per New Mexico State Engineer map.

**GREATEST PROJECTED TD** 12224' MD/ 7944' TVD **OBJECTIVE:** Brushy Canyon A2

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

Surface Casing: 13.375" casing set at  $\pm$  545'MD/ 545'TVD in a 17.5" hole filled with 8.60 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- <del>545'</del>	<del>545</del> 640	48	H-40	ST&C	770	1730	322	12.715	12.559	3.02	6.16	2.64

Intermediate Casing: 9.625" casing set at  $\pm$  4350'MD / 4350'TVD in a 12.25" hole filled with 10.2 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0' - <del>4350'</del>	<del>4350</del> 4125	40	J-55	LT&C	2570	3950	520	8.835	8.75	1.52	1.28	3.49

Production Casing: 5.5" casing set at  $\pm$  12224'MD / 7944'TVD in a 8.75" hole filled with 9.40 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 12204'	12224	17	L-80	BT&C	6290	7740	397	4.892	4.767	1.62	2.51	3.43

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

#### 4. CEMENT PROGRAM:

##### Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
<b>Surface (TOC: 0' - 545')</b>							
<b>Lead:</b> 0' - 214' (165% Excess)	200	214	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 4% Bentonite (Light Weight Additive), 1% Calcium Chlorid - Flake (Accelerator), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	9.14	13.50	1.73	1006 psi
<b>Tail:</b> 214' - 545' (165% Excess)	480	331	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 2% Calcium Chlorid - Flake (Accelerator)	6.39	14.80	1.35	1346 psi

##### Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
<b>Intermediate (TOC: 0' - 4350')</b>							
<b>Lead:</b> 0' - 3518' (105% Excess)	1120	3518	Light Premium Plus Cement: 5% Salt (Salt), 5 lbm/sk Kol Seal (Light Weight Additive), 0.125 lb/sk Poly-E- Flake (Lost Circulation Additive), 0.35% HR-800 (Retarder)	9.88	12.90	1.91	734 psi
<b>Tail:</b> 3518' - 4350' (105% Excess)	410	832	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 3 lbm/sk Kol-Seal (Lost Circulation Additive), 0.5% WellLife 734 (Cement Enhancer)	6.19	14.80	1.35	1849 psi

##### Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
<b>Production (TOC: 0' - 12224')</b>							
<b>St 3 - Lead:</b> 0' - 4016' (10% Excess)	570	4016	Halliburton Light Premium Plus: 3 lbm/sk Salt (Salt)	11.39	12.40	2.05	299 psi
<b>St 3 - Tail:</b> 4016' - 4400' (200% Excess)	100	384	Premium Plus Cement: 94 lbm/sk Premium Cement (Cement), 2 % Calcium Chloride - Flake (Accelerator)	6.36	14.80	1.34	1745 psi
<b>POST TOOL SET AT 4400'</b>							
<b>St 2 - Lead:</b> 4400' - 6766' (125% Excess)	630	2366	Halliburton Light Premium Plus: 5 lbm/sk Salt (Salt), 5 lbm/sk Kol-Seal (Lost Circulation Additive), 0.3 % HR- 601 (Retarder), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	11.78	12.40	2.16	709
<b>St 2 - Tail:</b> 6766' - 7000' (125% Excess)	100	234	Premium Cement: 94 lbm/sk Premium Cement (Cement), 0.15% HR-601 (Retarder)	6.35	14.80	1.33	1361
<b>DV TOOL SET AT 7000'</b>							
<b>St 1 - Lead:</b> 7000' - 12224' (85% Excess)	1510	5224	Super H Cement: 0.5% Halad(R)-344 (Low Fluid Loss Control), 0.4% CFR-3 (Dispersant), 3 lbm/sk Kol-Seal (Lost Circulation Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive), 1 lbm/sk Salt (Salt), 0.3% HR-601 (Retarder)	8.25	13.20	1.63	1275

## 5. DIRECTIONAL PLAN

Please see attached directional plan

## 6. PRESSURE CONTROL EQUIPMENT

**Surface:** 0 – 545' None.

**Intermediate:** 0 - 4350' Intermediate hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 10M Choke Manifold.

**Production:** 0 – 12224' Production hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 10M Choke Manifold. Oxy requires the use of a 5M BOP stack for this well.

- a. All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Wellhead pressure rating will support this test and 13-3/8" casing will be protected from high pressure. Since the wellhead system is a multibowl design, this initial test will cover the requirements prior to drilling out the 9-5/8" casing shoe.
- b. Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5000 psi WP rating. Oxy requests that the system be tested at 5,000 psi WP rating.
- c. Oxy also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose made by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose rated to 5,000 psi working pressure. It has been tested to 10,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps. Please see attached certifications.
- d. See attached BOP & Choke manifold diagrams.

## 7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 545' <del>640</del>	8.4 – 8.6	32 – 34	NC	Fresh Water /Spud Mud
<del>545' – 4350'</del> <del>4125</del>	9.8 – 10.2	28 – 29	NC	Brine Water
<del>4350' – 7000'</del>	8.6 – 8.8	28 - 29	NC	Brine Water
7000' – TD'	8.8 – 9.4	30 - 40	NC	Salt Gel

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

- A. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

## 8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

- a. A Kelly cock will be in the drill string at all times.

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

**9. LOGGING / CORING AND TESTING PROGRAM:** *See CoA*

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

**10. POTENTIAL HAZARDS:**

- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The bottomhole pressure is anticipated to be **3883 psi**.
- C. No abnormal temperatures or pressures are anticipated. **The highest anticipated pressure gradient is 0.49 psi/ft.** All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

**11. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS**

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 35 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

**12. COMPANY PERSONNEL:**

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Carlos Mercado	Drilling Engineer	713-366-5418	281-455-3481
Sebastian Millan	Drilling Engineer Supervisor	713-350-4950	832-528-3268
Roger Allen	Drilling Superintendent	713-215-7617	281-682-3919
Douglas Chester	Drilling Manager	713-366-9124	713-918-9124



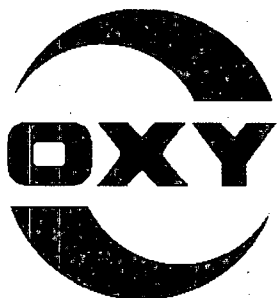
**Weatherford™**

**Drilling Services**

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**Proposal**

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**OCCIDENTAL PERMIAN LTD.**

NIMITZ 12 FEDERAL 3H

EDDY CO., NM

WELL FILE: **PLAN 2**

AUGUST 8, 2012

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**Weatherford International, Ltd.**

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

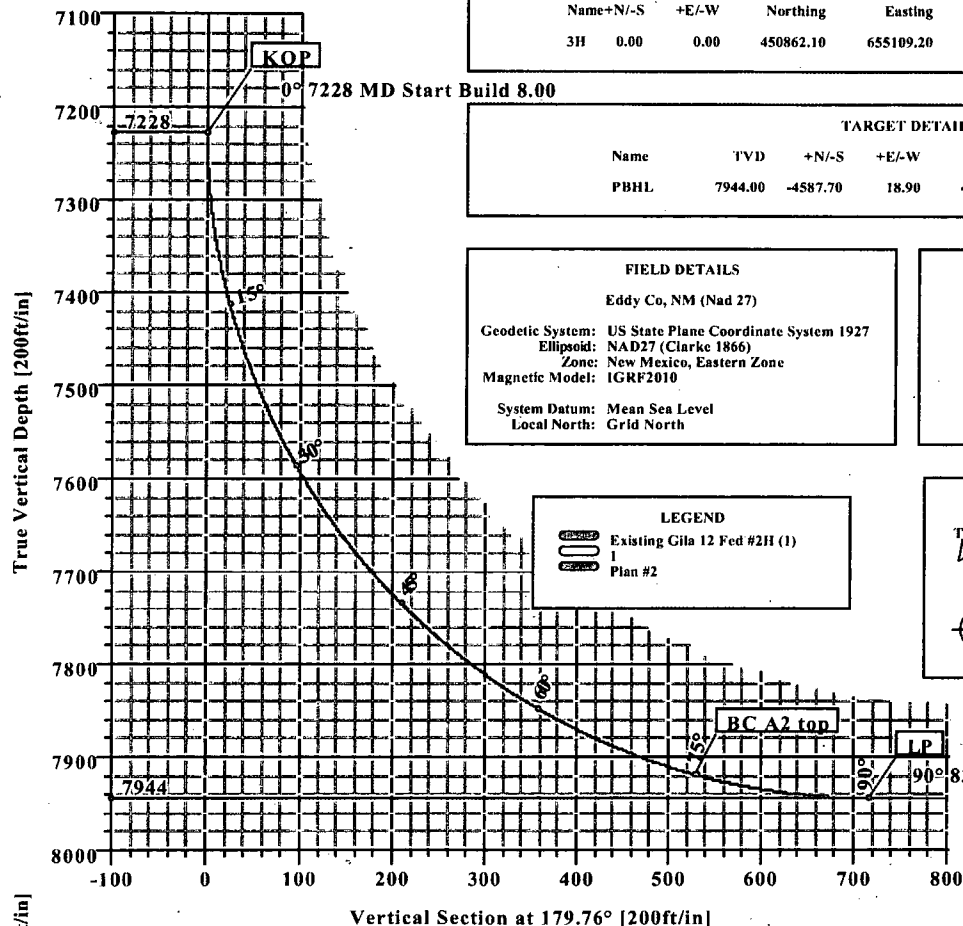
+1.432.561.8895 Fax

[www.weatherford.com](http://www.weatherford.com)

# Occidental Permian Ltd.

## Nimitz 12 Federal 3H Eddy Co, NM

KB ELEV: 3513.50  
GL ELEV: 3489.50



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.76	0.00	0.00	0.00	0.00	0.00	0.00	
2	7227.80	0.00	179.76	7227.80	0.00	0.00	0.00	0.00	0.00	
3	8352.80	90.00	179.76	7944.00	-716.19	2.95	8.00	179.76	716.20	
4	12224.34	90.00	179.76	7944.00	-4587.70	18.90	0.00	0.00	4587.74	PBHL

WELL DETAILS						
Name+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
3H 0.00	0.00	450862.10	655109.20	32°14'18.748N	103°49'54.020W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7944.00	-4587.70	18.90	446274.40	655128.10	Point

**FIELD DETAILS**  
Eddy Co, NM (Nad 27)

Geodetic System: US State Plane Coordinate System 1927  
Ellipsoid: NAD27 (Clarke 1866)  
Zone: New Mexico, Eastern Zone  
Magnetic Model: IGRF2010

System Datum: Mean Sea Level  
Local North: Grid North

**SITE DETAILS**  
Nimitz 12 Federal 3H

Site Centre Northing: 450862.10  
Easting: 655109.20

Ground Level: 3489.50  
Positional Uncertainty: 0.00  
Convergence: 0.27

**LEGEND**

Existing Gila 12 Fed #2H (1)  
Plan #2

**Compass Rose**

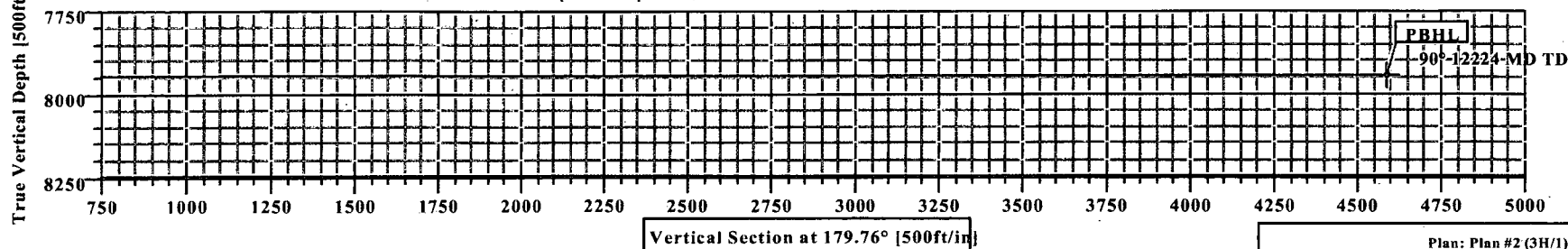
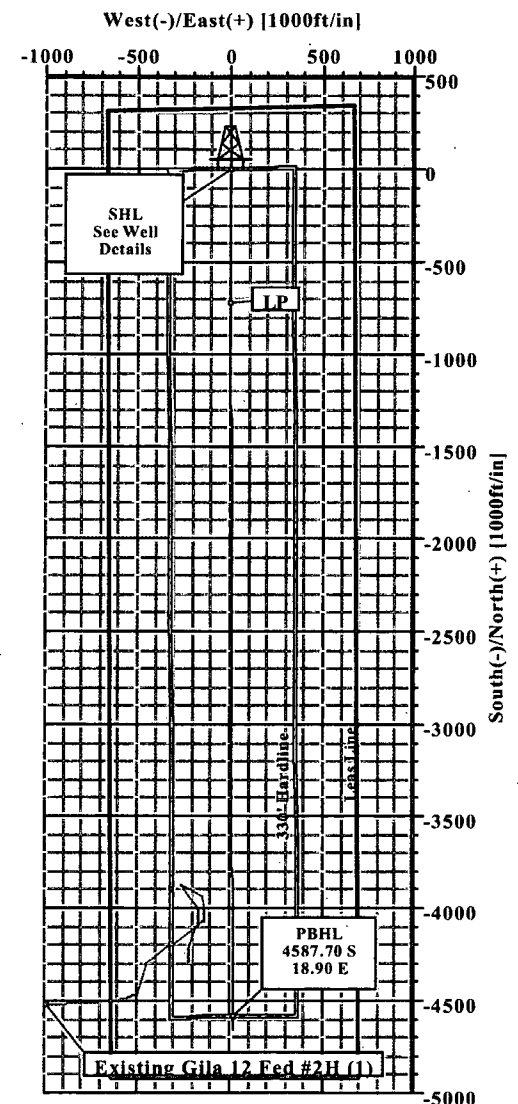
True North: -0.27°  
Magnetic North: 7.26°

Magnetic Field  
Strength: 48476nT  
Dip Angle: 60.12°  
Date: 12/1/2012  
Model: IGRF2010

Total Correction to Grid North: 7.26°



**Weatherford**





# Weatherford International Ltd.

## WFT Plan Report - X & Y's



Weatherford

<b>Company:</b> Occidental Permian Ltd.	<b>Date:</b> 8/8/2012	<b>Time:</b> 14:10:36	<b>Page:</b> 1
<b>Field:</b> Eddy Co, NM (Nad 27)	<b>Co-ordinate(NE) Reference:</b> Well: 3H, Grid North		
<b>Site:</b> Nimitz 12 Federal 3H	<b>Vertical (TVD) Reference:</b> SITE 3513.5		
<b>Well:</b> 3H	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,179.76Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Plan:</b> Plan #2	<b>Date Composed:</b> 8/8/2012
<b>Principal:</b> Yes	<b>Version:</b> 1
	<b>Tied-to:</b> From Surface

**Field:** Eddy Co, NM (Nad 27)

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

**Site:** Nimitz 12 Federal 3H

<b>Site Position:</b>	<b>Northing:</b> 450862.10 ft	<b>Latitude:</b> 32 14 18.748 N
<b>From:</b> Map	<b>Easting:</b> 655109.20 ft	<b>Longitude:</b> 103 49 54.020 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid
<b>Ground Level:</b> 3489.50 ft		<b>Grid Convergence:</b> 0.27 deg

<b>Well:</b> 3H	<b>Slot Name:</b>
<b>Well Position:</b>	
+N/-S 0.00 ft	<b>Northing:</b> 450862.10 ft
+E/-W 0.00 ft	<b>Easting:</b> 655109.20 ft
<b>Position Uncertainty:</b> 0.00 ft	
	<b>Latitude:</b> 32 14 18.748 N
	<b>Longitude:</b> 103 49 54.020 W

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 12/1/2012	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 48476 nT	<b>Declination:</b> 7.53 deg
<b>Vertical Section:</b> Depth From (TVD)	<b>Mag Dip Angle:</b> 60.12 deg
ft	<b>+N/-S</b>
	ft
7944.00	0.00
	0.00
	179.76

### 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	179.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7227.80	0.00	179.76	7227.80	0.00	0.00	0.00	0.00	0.00	0.00	
8352.80	90.00	179.76	7944.00	-716.19	2.95	8.00	8.00	0.00	179.76	
12224.34	90.00	179.76	7944.00	-4587.70	18.90	0.00	0.00	0.00	0.00	PBHL

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7200.00	0.00	179.76	7200.00	0.00	0.00	0.00	0.00	450862.10	655109.20	KOP
7227.80	0.00	179.76	7227.80	0.00	0.00	0.00	0.00	450862.10	655109.20	
7250.00	1.78	179.76	7250.00	-0.34	0.00	0.34	8.00	450861.76	655109.20	
7300.00	5.78	179.76	7299.88	-3.64	0.01	3.64	8.00	450858.46	655109.21	
7350.00	9.78	179.76	7349.41	-10.40	0.04	10.40	8.00	450851.70	655109.24	
7400.00	13.78	179.76	7398.35	-20.60	0.08	20.60	8.00	450841.50	655109.28	
7450.00	17.78	179.76	7446.45	-34.19	0.14	34.19	8.00	450827.91	655109.34	
7500.00	21.78	179.76	7493.49	-51.11	0.21	51.11	8.00	450810.99	655109.41	
7550.00	25.78	179.76	7539.24	-71.26	0.29	71.26	8.00	450790.84	655109.49	
7600.00	29.78	179.76	7583.47	-94.55	0.39	94.56	8.00	450767.55	655109.59	
7650.00	33.78	179.76	7625.97	-120.88	0.50	120.88	8.00	450741.22	655109.70	
7700.00	37.78	179.76	7666.53	-150.10	0.62	150.10	8.00	450712.00	655109.82	
7750.00	41.78	179.76	7704.95	-182.09	0.75	182.09	8.00	450680.01	655109.95	
7800.00	45.78	179.76	7741.04	-216.67	0.89	216.67	8.00	450645.43	655110.09	
7850.00	49.78	179.76	7774.64	-253.69	1.05	253.69	8.00	450608.41	655110.25	
7900.00	53.78	179.76	7805.57	-292.96	1.21	292.96	8.00	450569.14	655110.41	
7950.00	57.78	179.76	7833.68	-334.29	1.38	334.30	8.00	450527.81	655110.58	



# Weatherford International Ltd.

## WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.  
Field: Eddy Co, NM (Nad 27)  
Site: Nimitz 12 Federal 3H  
Well: 3H  
Wellpath: 1

Date: 8/8/2012 Time: 14:10:36 Page: 2  
Co-ordinate(NE) Reference: Well: 3H, Grid North  
Vertical (TVD) Reference: SITE 3513.5  
Section (VS) Reference: Well (0.00N,0.00E,179.76Azi)  
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
8000.00	61.78	179.76	7858.85	-377.49	1.56	377.49	8.00	450484.61	655110.76	
8050.00	65.78	179.76	7880.94	-422.33	1.74	422.34	8.00	450439.77	655110.94	
8100.00	69.78	179.76	7899.84	-468.61	1.93	468.61	8.00	450393.49	655111.13	
8150.00	73.78	179.76	7915.48	-516.09	2.13	516.09	8.00	450346.01	655111.33	
8163.01	74.82	179.76	7919.00	-528.62	2.18	528.62	8.00	450333.48	655111.38	BC A2 top
8200.00	77.78	179.76	7927.76	-564.55	2.33	564.55	8.00	450297.55	655111.53	
8250.00	81.78	179.76	7936.63	-613.74	2.53	613.75	8.00	450248.36	655111.73	
8300.00	85.78	179.76	7942.05	-663.44	2.73	663.44	8.00	450198.66	655111.93	
8352.80	90.00	179.76	7944.00	-716.19	2.95	716.20	8.00	450145.91	655112.15	LP
8400.00	90.00	179.76	7944.00	-763.39	3.14	763.39	0.00	450098.71	655112.34	
8500.00	90.00	179.76	7944.00	-863.39	3.56	863.39	0.00	449998.71	655112.76	
8600.00	90.00	179.76	7944.00	-963.39	3.97	963.39	0.00	449898.71	655113.17	
8700.00	90.00	179.76	7944.00	-1063.39	4.38	1063.39	0.00	449798.71	655113.58	
8800.00	90.00	179.76	7944.00	-1163.38	4.79	1163.39	0.00	449698.72	655113.99	
8900.00	90.00	179.76	7944.00	-1263.38	5.20	1263.39	0.00	449598.72	655114.40	
9000.00	90.00	179.76	7944.00	-1363.38	5.62	1363.39	0.00	449498.72	655114.82	
9100.00	90.00	179.76	7944.00	-1463.38	6.03	1463.39	0.00	449398.72	655115.23	
9200.00	90.00	179.76	7944.00	-1563.38	6.44	1563.39	0.00	449298.72	655115.64	
9300.00	90.00	179.76	7944.00	-1663.38	6.85	1663.39	0.00	449198.72	655116.05	
9400.00	90.00	179.76	7944.00	-1763.38	7.26	1763.39	0.00	449098.72	655116.46	
9500.00	90.00	179.76	7944.00	-1863.38	7.68	1863.39	0.00	448998.72	655116.88	
9600.00	90.00	179.76	7944.00	-1963.38	8.09	1963.39	0.00	448898.72	655117.29	
9700.00	90.00	179.76	7944.00	-2063.38	8.50	2063.39	0.00	448798.72	655117.70	
9800.00	90.00	179.76	7944.00	-2163.38	8.91	2163.39	0.00	448698.72	655118.11	
9900.00	90.00	179.76	7944.00	-2263.38	9.32	2263.39	0.00	448598.72	655118.52	
10000.00	90.00	179.76	7944.00	-2363.37	9.74	2363.39	0.00	448498.73	655118.94	
10100.00	90.00	179.76	7944.00	-2463.37	10.15	2463.39	0.00	448398.73	655119.35	
10200.00	90.00	179.76	7944.00	-2563.37	10.56	2563.39	0.00	448298.73	655119.76	
10300.00	90.00	179.76	7944.00	-2663.37	10.97	2663.39	0.00	448198.73	655120.17	
10400.00	90.00	179.76	7944.00	-2763.37	11.38	2763.39	0.00	448098.73	655120.58	
10500.00	90.00	179.76	7944.00	-2863.37	11.80	2863.39	0.00	447998.73	655121.00	
10600.00	90.00	179.76	7944.00	-2963.37	12.21	2963.39	0.00	447898.73	655121.41	
10700.00	90.00	179.76	7944.00	-3063.37	12.62	3063.39	0.00	447798.73	655121.82	
10800.00	90.00	179.76	7944.00	-3163.37	13.03	3163.39	0.00	447698.73	655122.23	
10900.00	90.00	179.76	7944.00	-3263.37	13.44	3263.39	0.00	447598.73	655122.64	
11000.00	90.00	179.76	7944.00	-3363.37	13.86	3363.39	0.00	447498.73	655123.06	
11100.00	90.00	179.76	7944.00	-3463.37	14.27	3463.39	0.00	447398.73	655123.47	
11200.00	90.00	179.76	7944.00	-3563.36	14.68	3563.39	0.00	447298.74	655123.88	
11300.00	90.00	179.76	7944.00	-3663.36	15.09	3663.39	0.00	447198.74	655124.29	
11400.00	90.00	179.76	7944.00	-3763.36	15.50	3763.39	0.00	447098.74	655124.70	
11500.00	90.00	179.76	7944.00	-3863.36	15.92	3863.39	0.00	446998.74	655125.12	
11600.00	90.00	179.76	7944.00	-3963.36	16.33	3963.39	0.00	446898.74	655125.53	
11700.00	90.00	179.76	7944.00	-4063.36	16.74	4063.39	0.00	446798.74	655125.94	
11800.00	90.00	179.76	7944.00	-4163.36	17.15	4163.39	0.00	446698.74	655126.35	
11900.00	90.00	179.76	7944.00	-4263.36	17.56	4263.39	0.00	446598.74	655126.76	
12000.00	90.00	179.76	7944.00	-4363.36	17.98	4363.39	0.00	446498.74	655127.18	
12100.00	90.00	179.76	7944.00	-4463.36	18.39	4463.39	0.00	446398.74	655127.59	
12200.00	90.00	179.76	7944.00	-4563.36	18.80	4563.39	0.00	446298.74	655128.00	BC A2 target
12224.34	90.00	179.76	7944.00	-4587.70	18.90	4587.74	0.00	446274.40	655128.10	PBHL



# Weatherford International Ltd.

## WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 8/8/2012 Time: 14:10:36 Page: 3  
Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: 3H, Grid North  
Site: Nimitz 12 Federal 3H Vertical (TVD) Reference: SITE 3513,5  
Well: 3H Section (VS) Reference: Well (0.00N,0.00E,179.76Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

### Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL			7944.00	-4587.70	18.90	446274.40	655128.10	32 13 33.348 N	103 49 54.049 W

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
545.00	545.00	0.000	0.000	Sfc Csg
4350.00	4350.00	0.000	0.000	Int Csg

### Annotation

MD ft	TVD ft	
7227.80	7227.80	KOP
8352.80	7944.00	LP
12224.34	7944.00	PBHL

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
8163.01	7919.00	BC A2 top		0.00	0.00
12200.00	7944.00	BC A2 target		0.00	0.00



# Weatherford International Ltd.

## Anticollision Report



Weatherford

Company: Occidental Permian Ltd.  
Field: Eddy Co, NM (Nad 27)  
Reference Site: Nimitz 12 Federal 3H  
Reference Well: 3H  
Reference Wellpath: 1

Date: 8/8/2012

Time: 14:18:43

Page: 1

Co-ordinate(NE) Reference: Well: 3H, Grid North  
Vertical (TVD) Reference: SITE 3513.5

Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria  
Interpolation Method: MD Interval: 100.00 ft  
Depth Range: 30.00 to 12995.93 ft  
Maximum Radius: 10000.00 ft

Reference: Definitive Survey  
Error Model: ISCWSA Ellipse  
Scan Method: Closest Approach 3D  
Error Surface: Circle

### Survey Program for Definitive Wellpath

Date: 8/6/2012 Validated: No

Version: 0

Actual From To Survey  
ft ft

Toolcode

Tool Name

0.00 12224.34 Planned: Plan #2 V1

MWD

MWD - Standard

### Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Exist. Gila 12 Fed #	Existing Gila 12 Fed	1 V0	12130.00	7941.39	1234.78	1136.16	12.52	

Site: Exist. Gila 12 Fed #2H

Well: Existing Gila 12 Fed #2H

Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
30.00	30.00	800.00	660.70	0.01	2.41	182.37	-4080.33	-169.09	4127.95	4125.53	1705.07	
130.00	130.00	800.00	660.70	0.15	2.41	182.37	-4080.33	-169.09	4114.56	4111.99	1602.69	
230.00	230.00	800.00	660.70	0.38	2.41	182.37	-4080.33	-169.09	4103.56	4100.77	1469.54	
330.00	330.00	1200.00	1052.73	0.60	3.39	182.40	-4030.59	-169.20	4093.39	4089.40	1025.79	
430.00	430.00	1200.00	1052.73	0.83	3.39	182.40	-4030.59	-169.20	4077.63	4073.41	967.10	
530.00	530.00	1200.00	1052.73	1.05	3.39	182.40	-4030.59	-169.20	4064.27	4059.83	914.95	
630.00	630.00	1200.00	1052.73	1.28	3.39	182.40	-4030.59	-169.20	4053.33	4048.66	868.43	
730.00	730.00	1200.00	1052.73	1.50	3.39	182.40	-4030.59	-169.20	4044.84	4039.95	826.79	
830.00	830.00	1200.00	1052.73	1.73	3.39	182.40	-4030.59	-169.20	4038.80	4033.69	789.39	
930.00	930.00	1200.00	1052.73	1.95	3.39	182.40	-4030.59	-169.20	4035.24	4029.90	755.74	
1030.00	1030.00	1231.25	1083.98	2.18	3.45	182.40	-4030.40	-169.23	4034.03	4028.41	717.03	
1130.00	1130.00	1332.43	1185.15	2.40	3.66	182.41	-4029.73	-169.33	4033.37	4027.31	665.64	
1230.00	1230.00	1437.12	1289.84	2.63	3.88	182.41	-4029.06	-169.42	4032.74	4026.23	619.59	
1330.00	1330.00	1557.32	1410.04	2.85	4.15	182.41	-4027.79	-169.56	4031.69	4024.68	575.77	
1430.00	1430.00	1673.38	1526.08	3.07	4.42	182.41	-4026.09	-169.55	4030.22	4022.72	537.67	
1530.00	1530.00	1791.87	1644.55	3.30	4.70	182.41	-4023.85	-169.40	4028.33	4020.32	503.40	
1630.00	1630.00	1892.89	1745.55	3.52	4.94	182.41	-4021.68	-169.05	4026.17	4017.70	475.38	
1730.00	1730.00	2004.80	1857.43	3.75	5.21	182.40	-4019.12	-168.49	4023.86	4014.89	448.76	
1830.00	1830.00	2093.00	1945.60	3.97	5.42	182.40	-4017.10	-168.14	4021.56	4012.15	427.50	
1930.00	1930.00	2190.35	2042.93	4.20	5.66	182.39	-4015.05	-167.86	4019.44	4009.57	407.13	
2030.00	2030.00	3300.00	3004.78	4.42	8.45	183.82	-3875.50	-258.72	3997.67	3984.67	307.60	
2130.00	2130.00	3300.00	3004.78	4.65	8.45	183.82	-3875.50	-258.72	3975.19	3961.97	300.70	
2230.00	2230.00	3300.00	3004.78	4.87	8.45	183.82	-3875.50	-258.72	3955.12	3941.68	294.25	
2330.00	2330.00	3300.00	3004.78	5.10	8.45	183.82	-3875.50	-258.72	3937.48	3923.82	288.25	
2430.00	2430.00	3300.00	3004.78	5.32	8.45	183.82	-3875.50	-258.72	3922.32	3908.44	282.68	
2530.00	2530.00	3300.00	3004.78	5.55	8.45	183.82	-3875.50	-258.72	3909.65	3895.56	277.51	
2630.00	2630.00	3300.00	3004.78	5.77	8.45	183.82	-3875.50	-258.72	3899.51	3885.21	272.73	
2730.00	2730.00	3300.00	3004.78	6.00	8.45	183.82	-3875.50	-258.72	3891.91	3877.41	268.33	
2830.00	2830.00	3300.00	3004.78	6.22	8.45	183.82	-3875.50	-258.72	3886.87	3872.17	264.30	
2930.00	2930.00	3325.97	3030.74	6.45	8.50	183.83	-3874.97	-259.24	3884.30	3869.34	259.54	
3030.00	3030.00	3400.00	3104.73	6.67	8.65	183.86	-3873.58	-261.21	3882.65	3867.31	253.14	
3130.00	3130.00	3400.00	3104.73	6.90	8.65	183.86	-3873.58	-261.21	3882.75	3867.20	249.72	
3230.00	3230.00	3400.00	3104.73	7.12	8.65	183.86	-3873.58	-261.21	3885.43	3869.66	246.33	
3330.00	3330.00	3400.00	3104.73	7.35	8.65	183.86	-3873.58	-261.21	3890.68	3874.68	243.20	



# Weatherford International Ltd.

## Anticollision Report



Weatherford

Company: Occidental Permian Ltd.  
Field: Eddy Co, NM (Nad 27)  
Reference Site: Nimitz 12 Federal 3H  
Reference Well: 3H  
Reference Wellpath: 1

Date: 8/8/2012

Time: 14:18:43

Page: 2

Co-ordinate(NE) Reference: Well: 3H, Grid North  
Vertical (TVD) Reference: SITE 3513.5

Db: Sybase

Site: Exist. Gila 12 Fed #2H  
Well: Existing Gila 12 Fed #2H  
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset North ft	Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
3430.00	3430.00	3400.00	3104.73	7.57	8.65	183.86	-3873.58	-261.21	3898.49	3882.26	240.31	
3530.00	3530.00	3400.00	3104.73	7.79	8.65	183.86	-3873.58	-261.21	3908.84	3892.39	237.66	
3630.00	3630.00	3400.00	3104.73	8.02	8.65	183.86	-3873.58	-261.21	3921.71	3905.04	235.23	
3730.00	3730.00	3400.00	3104.73	8.24	8.65	183.86	-3873.58	-261.21	3937.09	3920.19	233.01	
3830.00	3830.00	4000.00	3614.54	8.47	9.25	182.11	-3937.34	-145.09	3947.58	3929.86	222.74	
3930.00	3930.00	4000.00	3614.54	8.69	9.25	182.11	-3937.34	-145.09	3955.03	3937.08	220.37	
4030.00	4030.00	4000.00	3614.54	8.92	9.25	182.11	-3937.34	-145.09	3964.98	3946.81	218.19	
4130.00	4130.00	4000.00	3614.54	9.14	9.25	182.11	-3937.34	-145.09	3977.43	3959.03	216.20	
4230.00	4230.00	4000.00	3614.54	9.37	9.25	182.11	-3937.34	-145.09	3992.34	3973.72	214.39	
4330.00	4330.00	4000.00	3614.54	9.59	9.25	182.11	-3937.34	-145.09	4009.70	3990.85	212.76	
4430.00	4430.00	4000.00	3614.54	9.82	9.25	182.11	-3937.34	-145.09	4029.46	4010.38	211.29	
4530.00	4530.00	4000.00	3614.54	10.04	9.25	182.11	-3937.34	-145.09	4051.59	4032.29	209.97	
4630.00	4630.00	4000.00	3614.54	10.27	9.25	182.11	-3937.34	-145.09	4076.05	4056.53	208.81	
4730.00	4730.00	4900.00	4317.15	10.49	9.95	182.05	-4073.33	-145.61	4099.79	4079.34	200.55	
4830.00	4830.00	4900.00	4317.15	10.72	9.95	182.05	-4073.33	-145.61	4111.76	4091.09	198.95	
4930.00	4930.00	4900.00	4317.15	10.94	9.95	182.05	-4073.33	-145.61	4126.12	4105.23	197.50	
5030.00	5030.00	4900.00	4317.15	11.17	9.95	182.05	-4073.33	-145.61	4142.85	4121.74	196.19	
5130.00	5130.00	4900.00	4317.15	11.39	9.95	182.05	-4073.33	-145.61	4161.92	4140.58	195.02	
5230.00	5230.00	4900.00	4317.15	11.62	9.95	182.05	-4073.33	-145.61	4183.29	4161.72	193.97	
5330.00	5330.00	5995.87	5333.69	11.84	11.39	184.24	-4193.02	-310.97	4204.61	4181.38	180.97	
5430.00	5430.00	6000.00	5337.82	12.07	11.40	184.24	-4193.04	-311.00	4206.30	4182.84	179.27	
5530.00	5530.00	6000.00	5337.82	12.29	11.40	184.24	-4193.04	-311.00	4210.37	4186.68	177.74	
5630.00	5630.00	6000.00	5337.82	12.51	11.40	184.24	-4193.04	-311.00	4216.80	4192.88	176.34	
5730.00	5730.00	6000.00	5337.82	12.74	11.40	184.24	-4193.04	-311.00	4225.58	4201.45	175.06	
5830.00	5830.00	6000.00	5337.82	12.96	11.40	184.24	-4193.04	-311.00	4236.72	4212.35	173.90	
5930.00	5930.00	6000.00	5337.82	13.19	11.40	184.24	-4193.04	-311.00	4250.17	4225.58	172.86	
6030.00	6030.00	6000.00	5337.82	13.41	11.40	184.24	-4193.04	-311.00	4265.93	4241.12	171.93	
6130.00	6130.00	6000.00	5337.82	13.64	11.40	184.24	-4193.04	-311.00	4283.96	4258.93	171.10	
6230.00	6230.00	6000.00	5337.82	13.86	11.40	184.24	-4193.04	-311.00	4304.25	4278.99	170.38	
6330.00	6330.00	6000.00	5337.82	14.09	11.40	184.24	-4193.04	-311.00	4326.75	4301.26	169.76	
6430.00	6430.00	7000.00	6264.09	14.31	12.62	185.94	-4315.78	-449.28	4343.47	4316.54	161.26	
6530.00	6530.00	7000.00	6264.09	14.54	12.62	185.94	-4315.78	-449.28	4349.10	4321.95	160.14	
6630.00	6630.00	7000.00	6264.09	14.76	12.62	185.94	-4315.78	-449.28	4357.02	4329.64	159.11	
6730.00	6730.00	7000.00	6264.09	14.99	12.62	185.94	-4315.78	-449.28	4367.22	4339.61	158.19	
6830.00	6830.00	7000.00	6264.09	15.21	12.62	185.94	-4315.78	-449.28	4379.67	4351.84	157.36	
6930.00	6930.00	7000.00	6264.09	15.44	12.62	185.94	-4315.78	-449.28	4394.37	4366.31	156.62	
7030.00	7030.00	7000.00	6264.09	15.66	12.62	185.94	-4315.78	-449.28	4411.28	4383.00	155.97	
7130.00	7130.00	7000.00	6264.09	15.89	12.62	185.94	-4315.78	-449.28	4430.39	4401.88	155.41	
7230.00	7230.00	7000.00	6264.09	16.11	12.62	6.17	-4315.78	-449.28	4451.66	4422.93	154.94	
7330.00	7329.65	7000.00	6264.09	16.34	12.62	6.03	-4315.78	-449.28	4467.97	4439.01	154.28	
7430.00	7427.32	7000.00	6264.09	16.58	12.62	5.99	-4315.78	-449.28	4472.69	4443.49	153.18	
7530.00	7521.11	7000.00	6264.09	16.84	12.62	6.05	-4315.78	-449.28	4465.78	4436.32	151.60	
7630.00	7609.19	7000.00	6264.09	17.14	12.62	6.21	-4315.78	-449.28	4447.31	4417.55	149.45	
7730.00	7689.85	7000.00	6264.09	17.50	12.62	6.49	-4315.78	-449.28	4417.49	4387.37	146.65	
7830.00	7761.51	7000.00	6264.09	17.96	12.62	6.91	-4315.78	-449.28	4376.70	4346.12	143.13	
7930.00	7822.78	7000.00	6264.09	18.52	12.62	7.51	-4315.78	-449.28	4325.42	4294.27	138.88	
8030.00	7872.48	7820.27	6891.38	19.22	12.99	13.31	-4497.13	-617.86	4260.95	4228.74	132.29	
8130.00	7909.62	7832.00	6900.32	20.04	13.02	16.23	-4498.23	-625.38	4181.08	4148.02	126.48	
8230.00	7933.50	7832.00	6900.32	20.98	13.02	20.61	-4498.23	-625.38	4094.52	4060.52	120.43	
8330.00	7943.64	7842.33	6908.02	22.02	13.06	28.77	-4499.20	-632.19	4002.56	3967.37	113.75	
8430.00	7944.00	7844.55	6909.65	23.15	13.06	31.53	-4499.41	-633.68	3907.76	3871.33	107.25	



# Weatherford International Ltd.

## Anticollision Report



Weatherford

Company: Occidental Permian Ltd.  
Field: Eddy Co, NM (Nad 27)  
Reference Site: Nimitz 12 Federal 3H  
Reference Well: 3H  
Reference Wellpath: 1

Date: 8/8/2012

Time: 14:18:43

Page: 3

Co-ordinate(NE) Reference: Well: 3H, Grid North  
Vertical (TVD) Reference: SITE 3513.5

Db: Sybase

Site: Exist. Gila 12 Fed #2H  
Well: Existing Gila 12 Fed #2H  
Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
8530.00	7944.00	7846.71	6911.24	24.36	13.07	31.62	-4499.62	-635.14	3813.12	3775.36	100.98	
8630.00	7944.00	7848.89	6912.82	25.65	13.08	31.72	-4499.82	-636.62	3718.76	3679.61	94.97	
8730.00	7944.00	7851.07	6914.40	26.99	13.08	31.82	-4500.03	-638.11	3624.69	3584.08	89.25	
8830.00	7944.00	7853.25	6915.97	28.39	13.09	31.91	-4500.24	-639.61	3530.95	3488.82	83.82	
8930.00	7944.00	7863.00	6922.89	29.83	13.12	32.35	-4501.17	-646.41	3437.58	3393.88	78.65	
9030.00	7944.00	7863.00	6922.89	31.32	13.12	32.35	-4501.17	-646.41	3344.54	3299.25	73.84	
9130.00	7944.00	7863.00	6922.89	32.84	13.12	32.35	-4501.17	-646.41	3251.91	3205.00	69.32	
9230.00	7944.00	7863.00	6922.89	34.38	13.12	32.35	-4501.17	-646.41	3159.74	3111.17	65.06	
9330.00	7944.00	7863.00	6922.89	35.96	13.12	32.35	-4501.17	-646.41	3068.05	3017.89	61.17	
9430.00	7944.00	7863.00	6922.89	37.55	13.12	32.35	-4501.17	-646.41	2976.89	2925.04	57.41	
9530.00	7944.00	7870.88	6928.37	39.17	13.15	32.70	-4501.92	-652.03	2886.29	2832.69	53.85	
9630.00	7944.00	7873.83	6930.39	40.80	13.17	32.84	-4502.20	-654.16	2796.34	2740.99	50.52	
9730.00	7944.00	7876.73	6932.37	42.45	13.18	32.97	-4502.46	-656.26	2707.08	2649.97	47.41	
9830.00	7944.00	7879.57	6934.29	44.11	13.19	33.10	-4502.72	-658.33	2618.58	2559.71	44.48	
9930.00	7944.00	7882.35	6936.16	45.78	13.20	33.22	-4502.98	-660.38	2530.94	2470.28	41.73	
10030.00	7944.00	7885.09	6937.98	47.47	13.21	33.35	-4503.22	-662.41	2444.23	2381.79	39.14	
10130.00	7944.00	7894.00	6943.84	49.16	13.25	33.75	-4504.01	-669.08	2358.59	2294.32	36.70	
10230.00	7944.00	7894.00	6943.84	50.87	13.25	33.75	-4504.01	-669.08	2274.07	2208.01	34.43	
10330.00	7944.00	7894.00	6943.84	52.58	13.25	33.75	-4504.01	-669.08	2190.85	2123.00	32.29	
10430.00	7944.00	7897.56	6946.14	54.30	13.26	33.92	-4504.31	-671.78	2109.08	2039.51	30.31	
10530.00	7944.00	7902.83	6949.52	56.02	13.29	34.16	-4504.74	-675.80	2028.93	1957.53	28.42	
10630.00	7944.00	7907.46	6952.46	57.75	13.31	34.37	-4505.09	-679.35	1950.60	1877.37	26.64	
10730.00	7944.00	7911.54	6955.03	59.49	13.33	34.56	-4505.38	-682.51	1874.31	1799.27	24.98	
10830.00	7944.00	7915.17	6957.30	61.23	13.35	34.73	-4505.63	-685.34	1800.33	1723.48	23.43	
10930.00	7944.00	7918.43	6959.32	62.98	13.36	34.88	-4505.84	-687.89	1728.95	1650.31	21.98	
11030.00	7944.00	7921.36	6961.12	64.73	13.37	35.01	-4506.02	-690.19	1660.53	1580.09	20.64	
11130.00	7944.00	7925.00	6963.34	66.48	13.39	35.18	-4506.23	-693.06	1595.43	1513.21	19.41	
11230.00	7944.00	7925.00	6963.34	68.24	13.39	35.18	-4506.23	-693.06	1534.08	1450.19	18.29	
11330.00	7944.00	7925.00	6963.34	70.00	13.39	35.18	-4506.23	-693.06	1476.96	1391.34	17.25	
11430.00	7944.00	7931.01	6966.98	71.76	13.42	35.46	-4506.54	-697.84	1424.55	1337.18	16.30	
11530.00	7944.00	7932.92	6968.13	73.53	13.44	35.55	-4506.64	-699.37	1377.42	1288.35	15.46	
11630.00	7944.00	7934.66	6969.16	75.30	13.45	35.63	-4506.72	-700.76	1336.12	1245.38	14.72	
11730.00	7944.00	7936.24	6970.10	77.07	13.45	35.70	-4506.79	-702.03	1301.20	1208.82	14.09	
11830.00	7944.00	7937.69	6970.96	78.84	13.46	35.77	-4506.85	-703.19	1273.20	1179.21	13.55	
11930.00	7944.00	7939.02	6971.75	80.62	13.47	35.83	-4506.90	-704.27	1252.56	1157.01	13.11	
12030.00	7944.00	7940.26	6972.48	82.40	13.48	35.89	-4506.95	-705.26	1239.68	1142.58	12.77	
12130.00	7944.00	7941.39	6973.15	84.18	13.48	35.94	-4506.99	-706.18	1234.78	1136.16	12.52	

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

GeoDec v5.03

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Report Date: August 07, 2012  
Job Number: \_\_\_\_\_  
Customer: Occidental Permian Ltd.  
Well Name: Nimitz 12 Federal 3H  
API Number: \_\_\_\_\_  
Rig Name: \_\_\_\_\_  
Location: Eddy Co, NM (Nad 27)  
Block: \_\_\_\_\_  
Engineer: KRN

---

US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 450862.100 USFT	Latitude 32.2385412 DEG
East/West 655109.200 USFT	Longitude -103.8316722 DEG
Grid Convergence: .27°	
Total Correction: +7.26°	

---

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.23854° N	32° 14 min 18.748 sec
Longitude =	103.83167° W	103° 49 min 54.020 sec

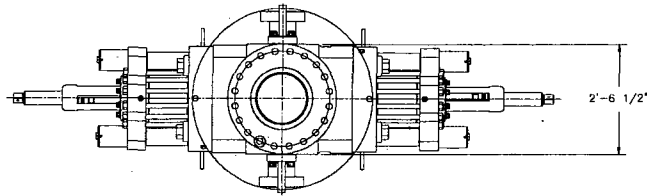
---

Magnetic Declination =	7.53°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6528
Local Field Strength =	48472 nT	Magnetic Vector X = 23940 nT
Magnetic Dip =	60.12°	Magnetic Vector Y = 3164 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42028 nT
Spud Date =	Dec 01, 2012	Magnetic Vector H = 24148 nT

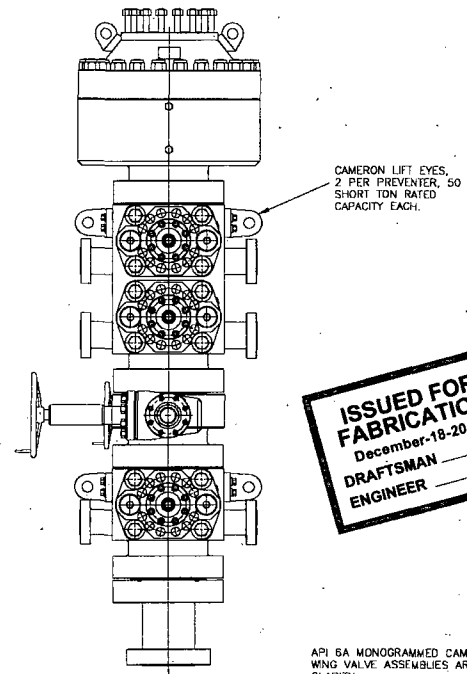
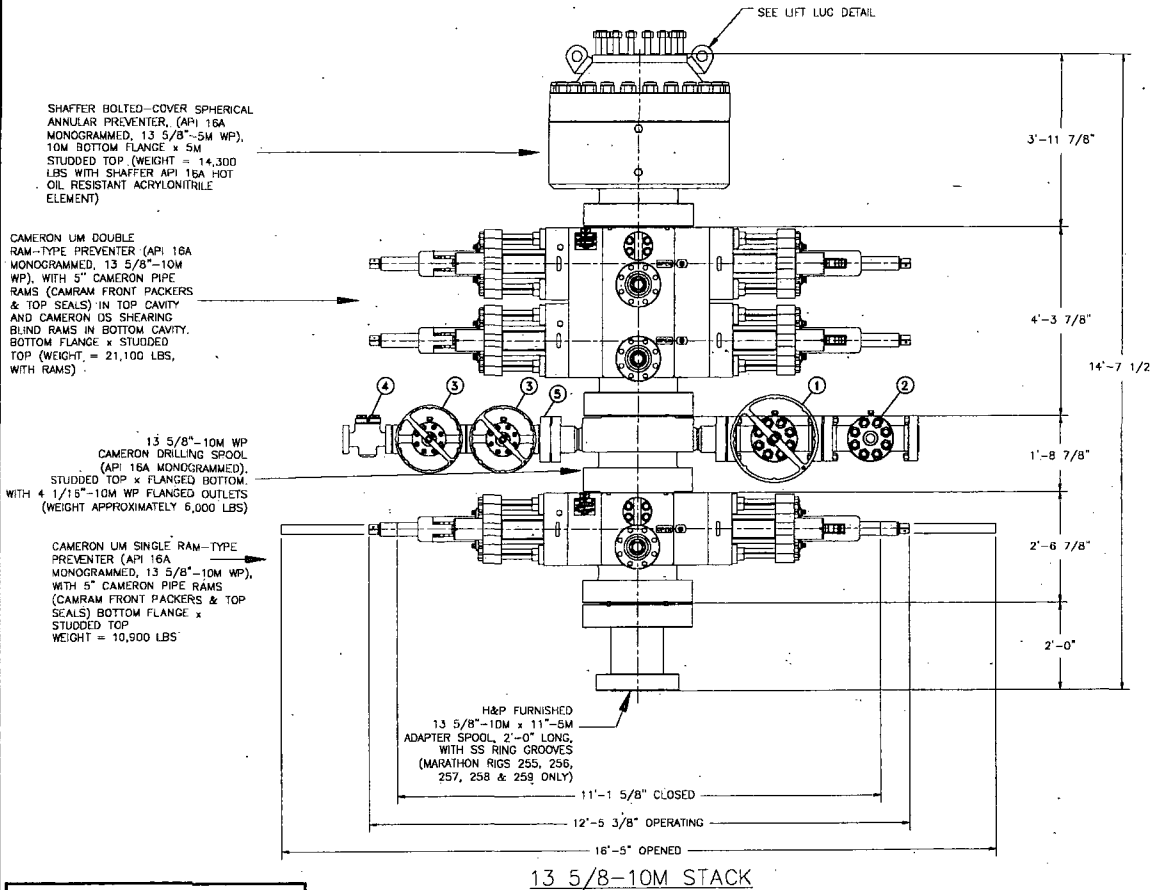
---

Signed: \_\_\_\_\_

Date: \_\_\_\_\_



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



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

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

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

# PROPRIETARY

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

13 5/8\"-10M STACK

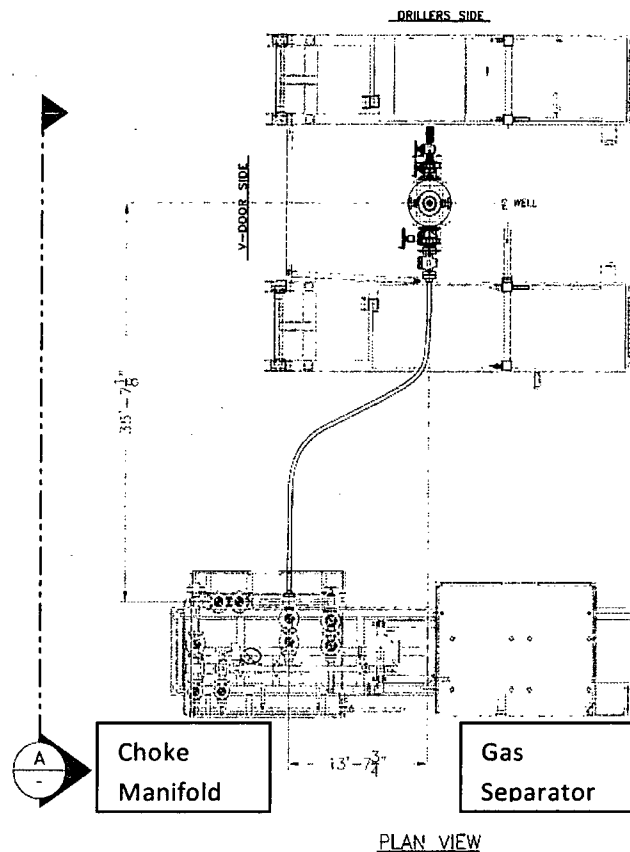
**HELMERICH & PAYNE**  
INTERNATIONAL DRILLING CO.

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

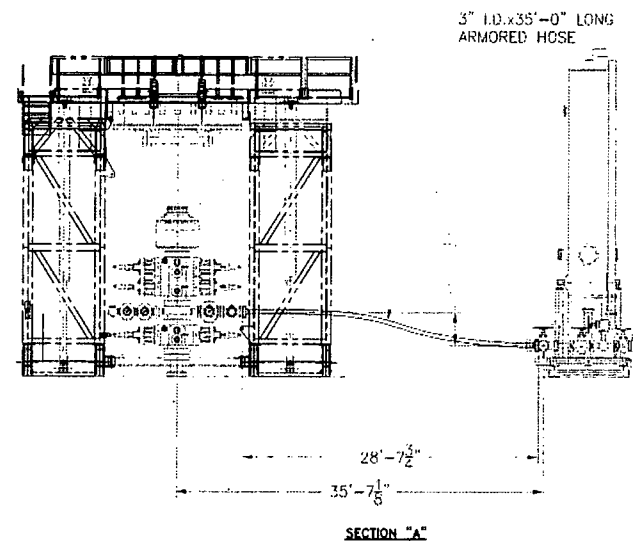
CUSTOMER: H&P  
PROJECT: FLEXRIG3

DRAWN: MTS DATE: 6-5-02 DWG. NO.: 210-P1-07  
SCALE: 3/4\"=1\" SHEET: 1 OF 1

		ENGINEERING APPROVAL		DATE
A	12/18/07	ADDED SHEET 03		JAV
A	4-10-07	ORIENTATION REVERSED DOUBLE STUDDED ADAPTER VALVES 1, 2, & 3, AND 16. USER MUST READ		JBG
A	4-04-07	6" ADDED TO SPACER ADAPTER SPOOL		JBG
B	02-07-07	ADDED ADAPTER SPOOL		WWL
A	08-13-02	CORRECTED BOP STACK		WWL
REV	DATE	DESCRIPTION		BY



→ To Shakers



**ISSUED FOR FABRICATION**  
December-19-2007  
DRAFTSMAN \_\_\_\_\_  
ENGINEER \_\_\_\_\_

**HELMERICH & PAYNE**  
INTERNATIONAL DRILLING CO.

TITLE: CHOKER LINE SYSTEM  
FLEXRIG3

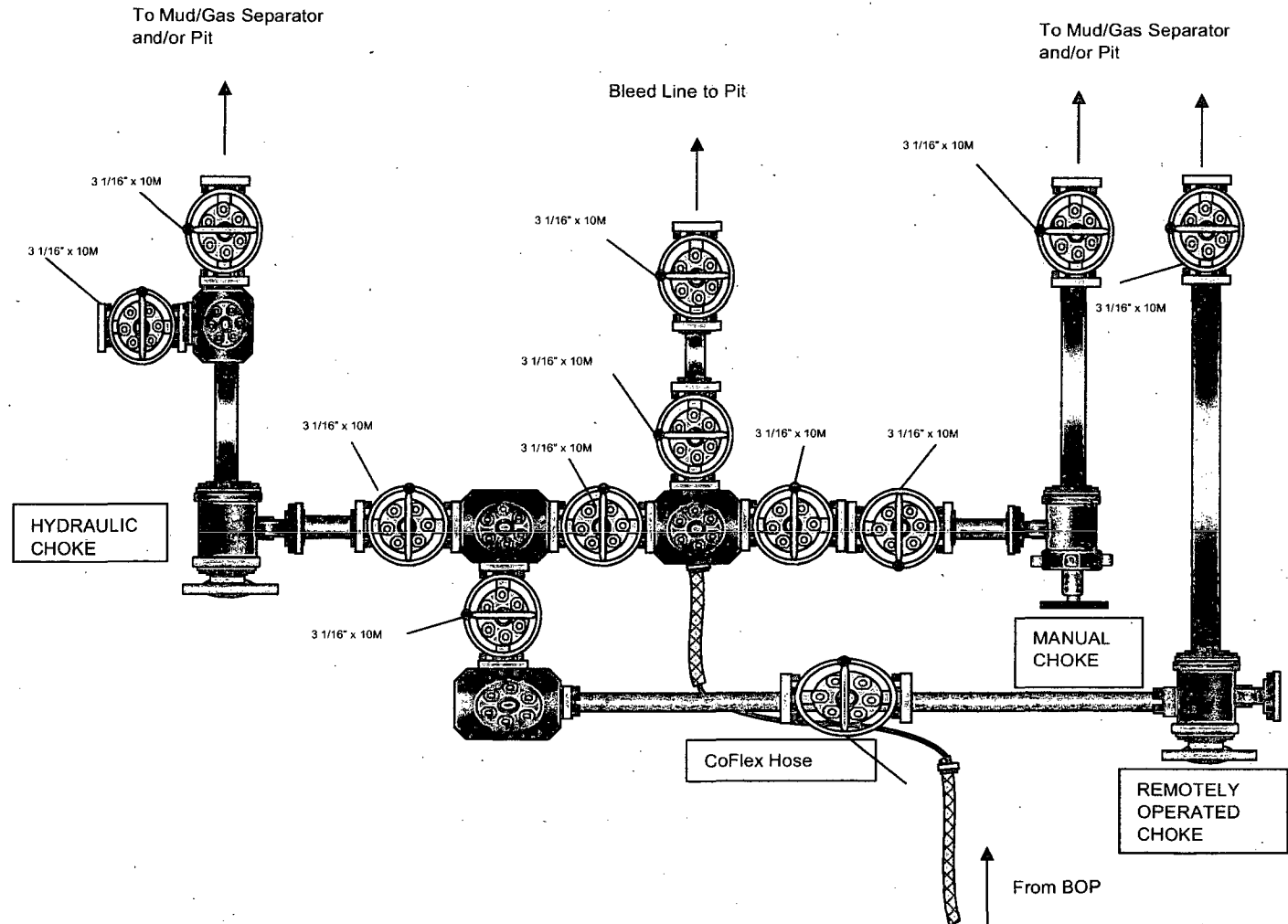
CUSTOMER: \_\_\_\_\_  
PROJECT: \_\_\_\_\_  
DRAWN: JBC DATE: 4-10-07 DWG. NO.: \_\_\_\_\_  
SCALE: 3/16"=1' SHEET: 2 OF 2 210-P1-07 A

**PROPRIETARY**

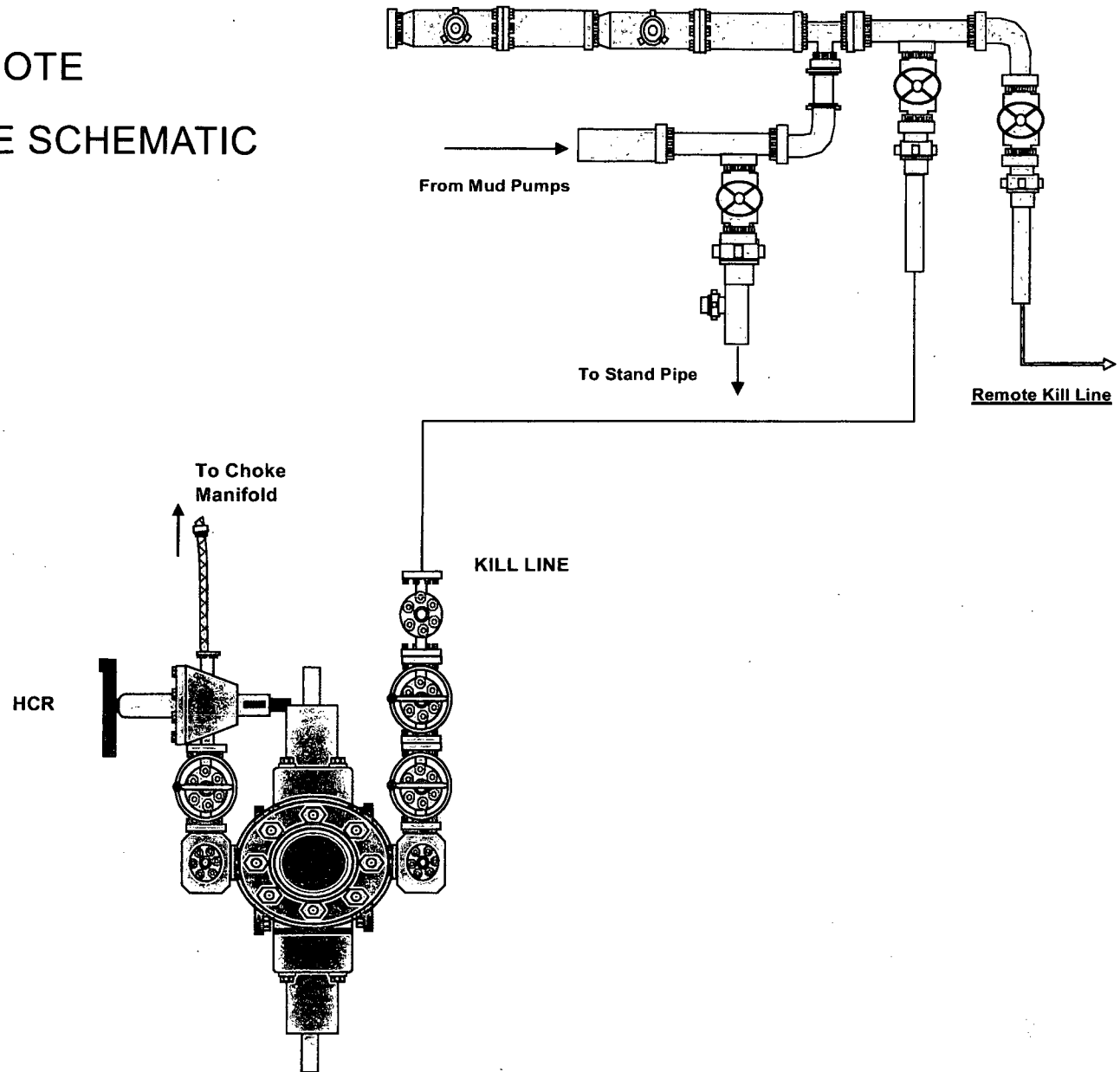
THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER, WITHOUT THE PRIOR WRITTEN CONSENT OF A QUALIFIED OFFICER OF HELMERICH & PAYNE INTL. DRILLING CO.

ENGINEERING APPROVAL		DATE	TITLE	
△			CHOKER LINE SYSTEM	
△			FLEXRIG3	
△			CUSTOMER:	
△			PROJECT:	
△	12/18/07	REMOVED SHEET TOTAL CALLOUT	DRAWN: JBC	DATE: 4-10-07
REV	DATE	DESCRIPTION	BY	SCALE: 3/16"=1'

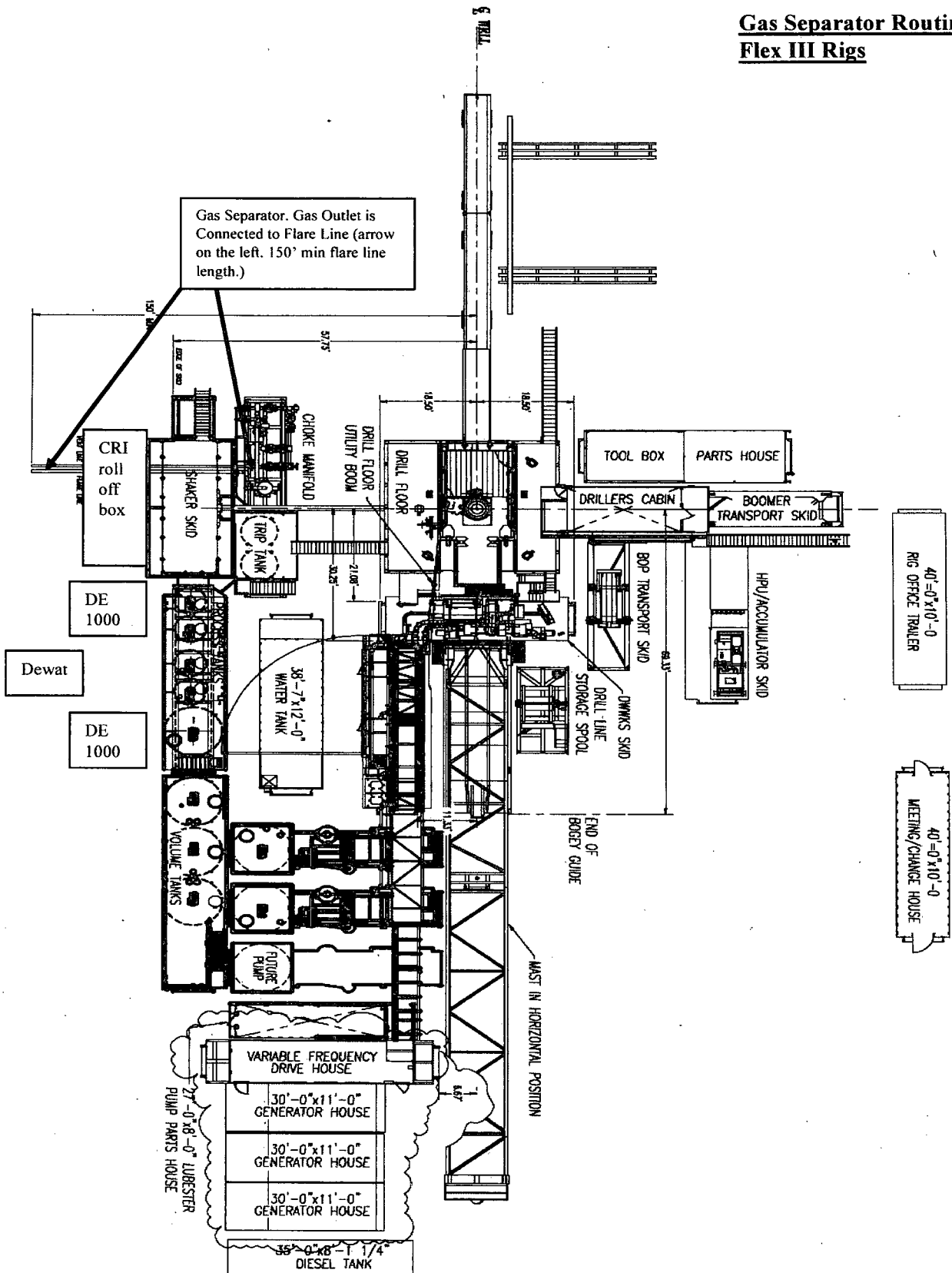
## 10M CHOKE MANIFOLD CONFIGURATION



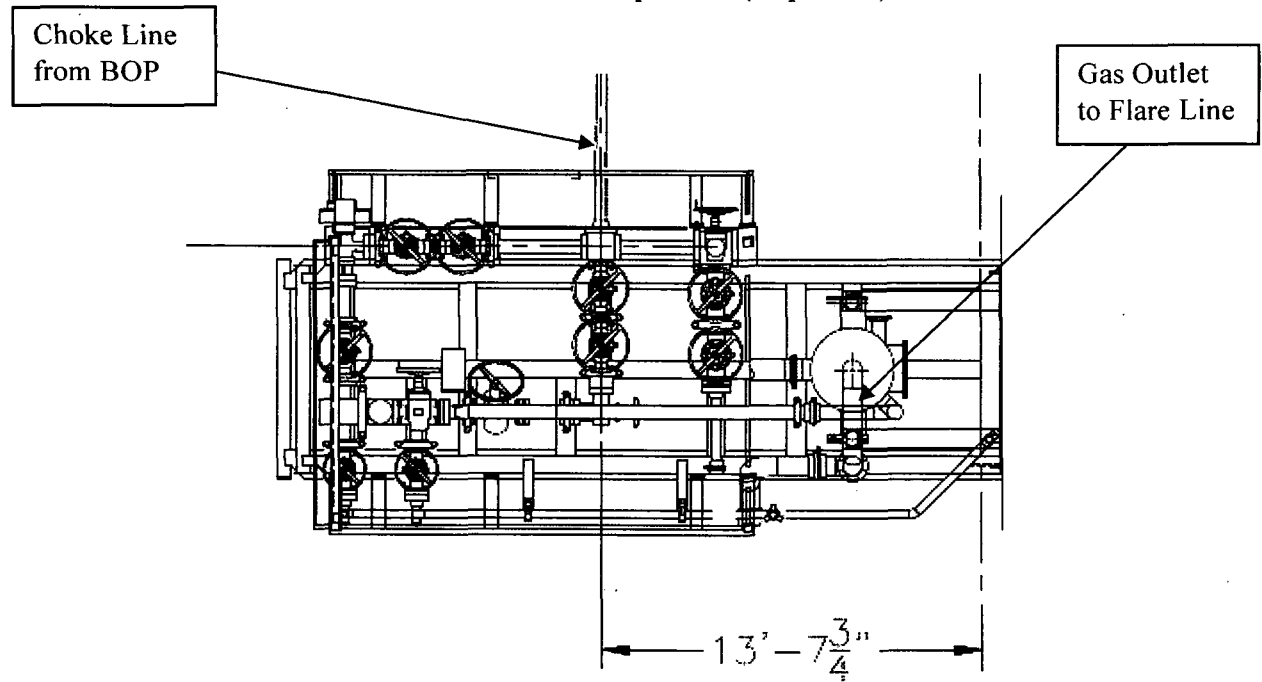
# 10M REMOTE KILL LINE SCHEMATIC



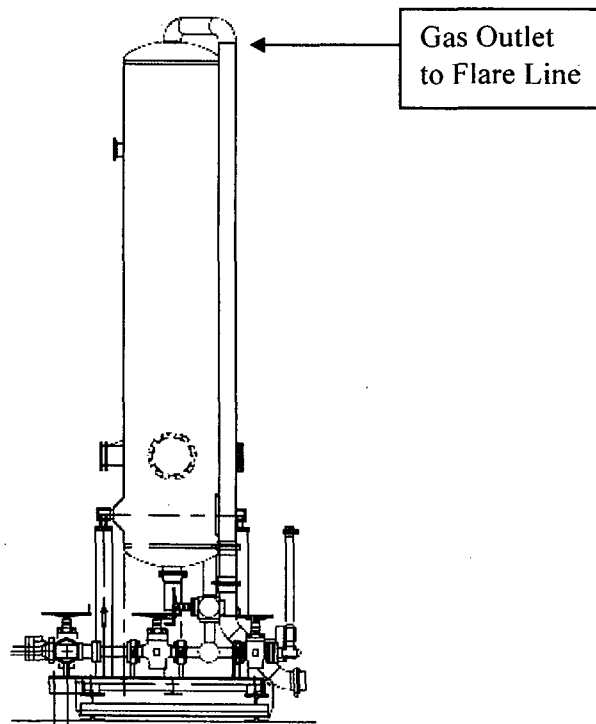
# Gas Separator Routing Flex III Rigs



**Choke Manifold – Gas Separator (Top View)**



**Choke Manifold – Gas Separator (Side View)**



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**CERTIFICATE OF CONFORMITY**

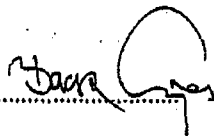
**Supplier** : CONTITECH RUBBER INDUSTRIAL KFT.  
**Equipment** : 6 pcs. Choke and Kill Hose with installed couplings  
**Type** : 3" x 10,67 m WP: 10000 psi  
**Supplier File Number** : 412638  
**Date of Shipment** : April. 2008  
**Customer** : Phoenix Beattie Co.  
**Customer P.o.** : 002491  
**Referenced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

**STATEMENT OF CONFORMITY**

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

**COUNTRY OF ORIGIN HUNGARY/EU**

Signed : .....



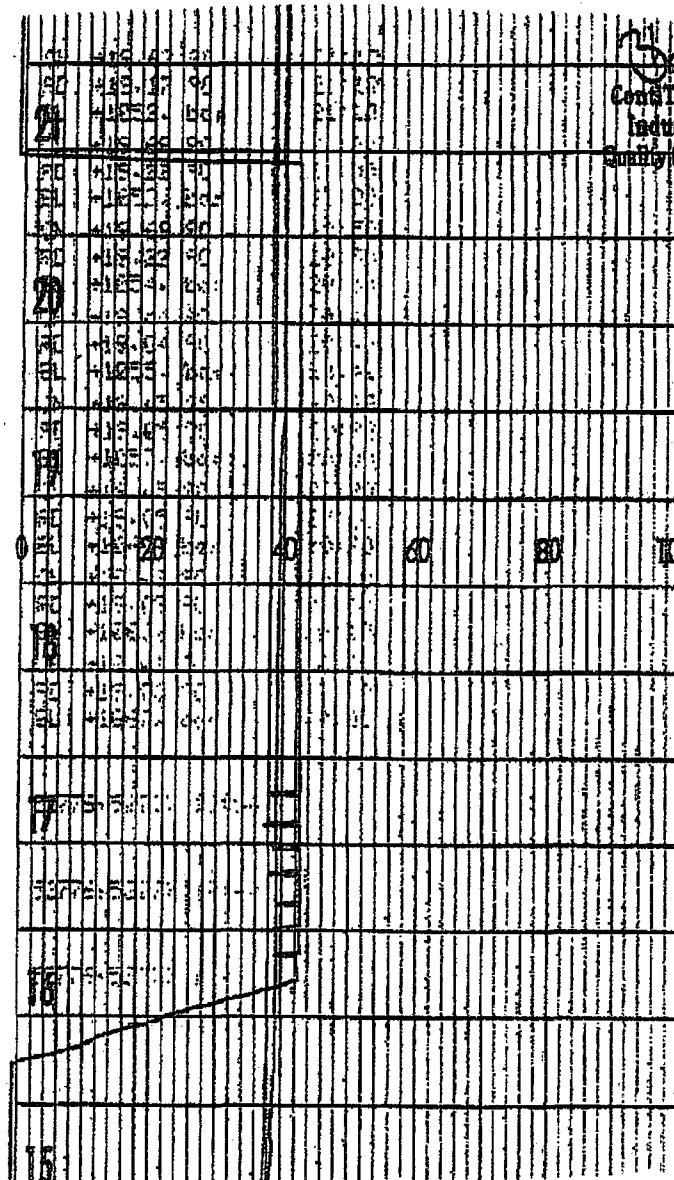
ContiTech Rubber  
Industrial Kft.  
Quality Control Dept.  
(1)

Date: 04. April. 2008

Position: Q.C. Manager

## Coflex Hose Certification

Page: 1/1



[illegible]

05/23/09

## Coflex Hose Certification

# Coflex Hose Certification

Form No 100/12



## Phoenix Beattie Corp

11536 Brittsboro Park Drive  
Houston, TX 77041  
Tel: (832) 327-0141  
Fax: (832) 327-0148  
E-mail: [sa1@phoenixbeattie.com](mailto:sa1@phoenixbeattie.com)  
[www.phoenixbeattie.com](http://www.phoenixbeattie.com)

## Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

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

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

Continued...

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

Coflex Hose Certification



Fluid Technology

Quality Document

<b>QUALITY CONTROL INSPECTION AND TEST CERTIFICATE</b>				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.	
<p>Pressure test with water at ambient temperature</p> <p align="center">See attachment. (1 page)</p> <p>↑ 10 mm = 10 Min. → 10 mm = 25 MPa</p>					
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					

**Coflex Hose Certification**

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittain Park Drive  
Houston, TX 77041  
Tel: (832) 327-0141  
Fax: (832) 327-0148  
E-mail: [sa11@phoenixbeattie.com](mailto:sa11@phoenixbeattie.com)  
[www.phoenixbeattie.com](http://www.phoenixbeattie.com)

**Delivery Note**

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

<b>Customer Acc No</b>	<b>Phoenix Beattie Contract Manager</b>	<b>Phoenix Beattie Reference</b>	<b>Date</b>
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 :

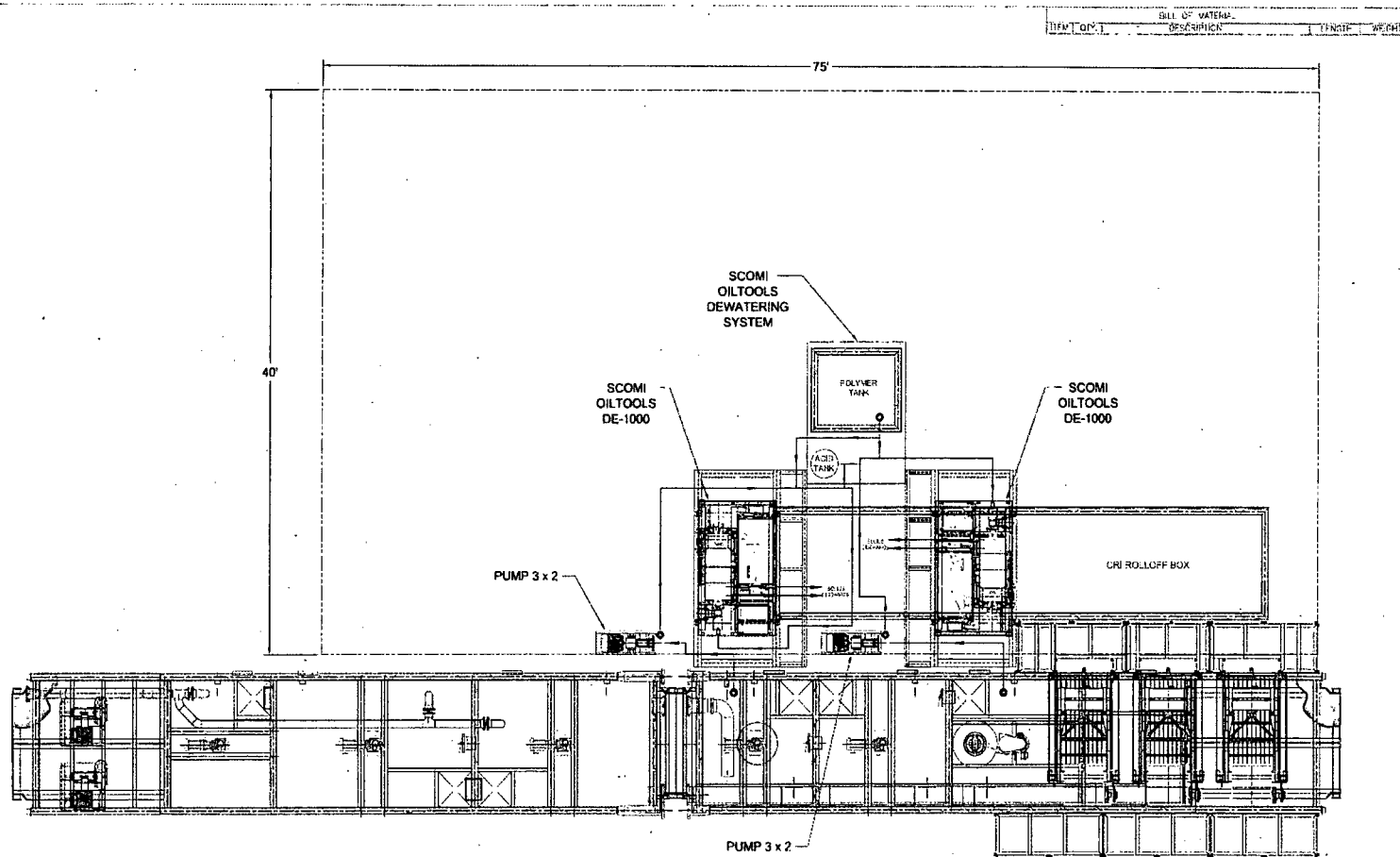
Received In Good Condition : Signature


Print Name

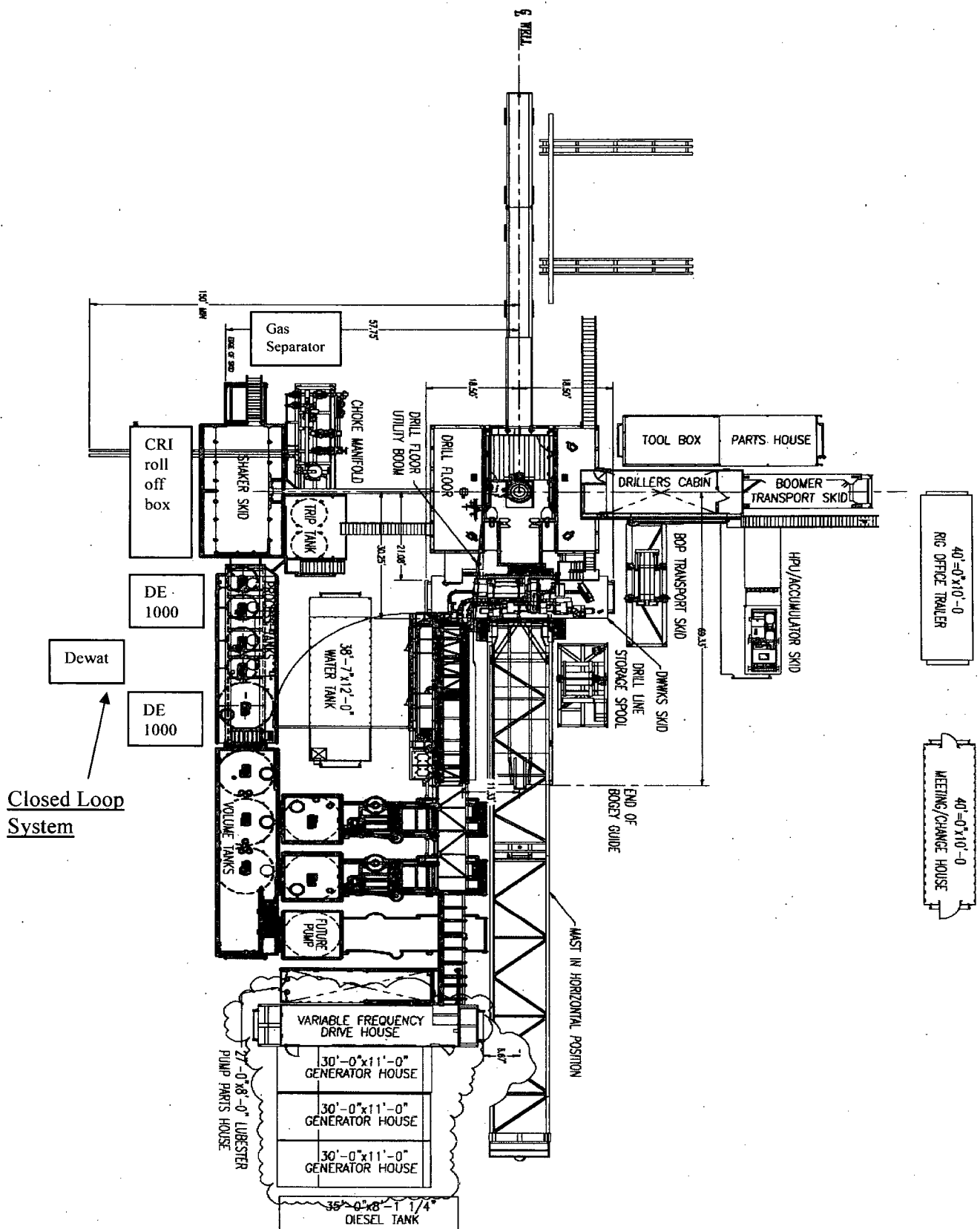
Date

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.

										<p>1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36</p> <p>2. ALL PIPE SCH. 40 MATERIAL SA 105 Gr. B</p> <p>3. ALL FLANGES SHALL BE SCH. 150B &amp; MATERIAL SA 105</p> <p>4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA 254 Gr. AHR</p> <p>5. TANG FABRICATION SHALL BE IN ACCORDANCE WITH API-650</p>										<p>TITLE: CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&amp;P - FLEX RIGS / PG 1 OF 2</p>																													
										<p>The design, information and disclosure on this drawing or copies hereof are the confidential property of Scomi International Limited. It is not to be reproduced or disclosed to others by any means, in any form, or by whatever means or translated into any other language or used for manufacture or any purpose without the written permission of Scomi International Limited. In the event of such permission, any and all fees for the expenses connected with the design and copies shall be returned to Scomi International Limited upon request.</p>										<p>DESIGNED BY: P12</p> <p>DATE: 10/03/02</p>										<p>CHECKED BY: SATE</p> <p>DATE:</p>										<p>321 N. Main Houston Parkway East, Suite 300, Houston, Texas 77060</p> <p>PHONE: (281) 266-6016 FAX: (281) 260-0840</p>									
<p>APPROVED: [Signature]</p> <p>DATE: [Blank]</p> <p>SCALE: NTS</p>																				<p>ACAD: D</p>										<p>JOIN: [Blank]</p> <p>REVISION: [Blank]</p>										<p>521S-014</p> <p>A</p>									



				1. ALL STRUCTURAL MATERIAL SHALL BE A36 STEEL - A709. 2. ALL PIPE SHALL BE MATERIAL SA 106 Gr. B 3. ALL FLANGED SHALL BE SCOME 150# W/ ANTI-SUCK SA 106 4. ALL 150#S SHALL BE MATERIAL SA 106 Gr. B 5. ALL FABRICATION SHALL BE IN ACCORDANCE WITH API-500	<b>CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&amp;P - FLEX RIGS / PG 2 OF 2</b>				
				The designer, manufacturer, and installer shall be responsible for the design and construction of the system and shall be responsible for the safety of the system. The system shall be designed and constructed in accordance with the API-500 standard. The system shall be installed and operated in accordance with the API-500 standard. The system shall be maintained in accordance with the API-500 standard. The system shall be inspected and tested in accordance with the API-500 standard. The system shall be repaired and replaced in accordance with the API-500 standard. The system shall be decommissioned and removed in accordance with the API-500 standard.		221 N. Sam Houston Parkway East, Suite 200 Houston, Texas 77060 PHONE: (281) 595-8019 FAX: (281) 595-9988			
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## **Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico**

### **Scope**

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H<sub>2</sub>S) gas.

While drilling this well, it is possible to encounter H<sub>2</sub>S bearing formations. At all times, the first barrier to control H<sub>2</sub>S emissions will be the drilling fluid, which will have a density high enough to control influx.

### **Objective**

1. Provide an immediate and predetermined response plan to any condition when H<sub>2</sub>S is detected. All H<sub>2</sub>S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
3. Provide proper evacuation procedures to cope with emergencies.
4. Provide immediate and adequate medical attention should an injury occur.

## **Discussion**

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of this well.
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.
Briefing:	This section deals with the briefing of all people involved in the drilling operation.
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.
General information:	A general information section has been included to supply support information.

### **Hydrogen Sulfide Training**

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on the well:

1. The hazards and characteristics of H<sub>2</sub>S.
2. Proper use and maintenance of personal protective equipment and life support systems.
3. H<sub>2</sub>S detection.
4. Proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
5. Proper techniques for first aid and rescue procedures.
6. Physical effects of hydrogen sulfide on the human body.
7. Toxicity of hydrogen sulfide and sulfur dioxide.
8. Use of SCBA and supplied air equipment.
9. First aid and artificial respiration.
10. Emergency rescue.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S on metal components. If high tensile strength tubular is to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling a well, blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan.

H<sub>2</sub>S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H<sub>2</sub>S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H<sub>2</sub>S training has been taken.

#### **Service company and visiting personnel**

- A. Each service company that will be on this well will be notified if the zone contains H<sub>2</sub>S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site briefing

## **Emergency Equipment Requirements**

### **1. Well control equipment**

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as BLM Onshore Order #2.

*Special control equipment:*

- A. Hydraulic BOP equipment with remote control on ground.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

### **2. Protective equipment for personnel**

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
  - Rig floor and trailers.
  - Vehicle.

### **3. Hydrogen sulfide sensors and alarms**

- A. H<sub>2</sub>S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H<sub>2</sub>S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

### **4. Visual Warning Systems**

- A. One sign located at each location entrance with the following language:

**Caution – potential poison gas  
Hydrogen sulfide  
No admittance without authorization**

*Wind sock – wind streamers:*

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

*Condition flags*

- A. One each condition flag to be displayed to denote conditions.

**green – normal conditions**

**yellow – potential danger**

**red – danger, H2S present**

- B. Condition flag shall be posted at each location sign entrance.

5. Mud Program

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

*Mud inspection devices:*

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. Metallurgy

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. Designated area

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H<sub>2</sub>S level above 10 ppm, take the following steps:
  - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
  - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
  - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
  - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
  - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
  - 6. Take steps to determine if the H<sub>2</sub>S level can be corrected or suppressed and, if so, proceed as required.
- B. If uncontrollable conditions occur:
  - 1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
3. Notify public safety personnel of safe briefing / muster area.
4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

1. Designated personnel.
  - a. Shall be responsible for the total implementation of this plan.
  - b. Shall be in complete command during any emergency.
  - c. Shall designate a back-up.

- |                     |   |
|---------------------|---|
| All personnel:      | <ol style="list-style-type: none"> <li>1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw</li> <li>2. Check status of personnel (buddy system).</li> <li>3. Secure breathing equipment.</li> <li>4. Await orders from supervisor.</li> </ol>  |
| Drill site manager: | <ol style="list-style-type: none"> <li>1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.</li> <li>2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).</li> <li>3. Determine H<sub>2</sub>S concentrations.</li> <li>4. Assess situation and take control measures.</li> </ol> |
| Tool pusher:        | <ol style="list-style-type: none"> <li>1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.</li> <li>2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).</li> <li>3. Determine H<sub>2</sub>S concentration.</li> <li>4. Assess situation and take control measures.</li> </ol>          |
| Driller:            | <ol style="list-style-type: none"> <li>1. Don escape unit, shut down pumps, continue rotating DP.</li> </ol>  |

2. Check monitor for point of release.
3. Report to nearest upwind designated safe briefing / muster area.
4. Check status of personnel (in an attempt to rescue, use the buddy system).
5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.

Derrick man  
Floor man #1  
Floor man #2

1. Will remain in briefing / muster area until instructed by supervisor.

Mud engineer:

1. Report to nearest upwind designated safe briefing / muster area.
2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)

Safety personnel:

1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

### **Taking a kick**

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

### **Open-hole logging**

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

### **Running casing or plugging**

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

### **Ignition procedures**

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

1. Human life and property are endangered.
2. There is no hope controlling the blowout under the prevailing conditions at the well.

### **Instructions for igniting the well**

1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
3. Ignite upwind and do not approach any closer than is warranted.
4. Select the ignition site best for protection, and which offers an easy escape route.
5. Before firing, check for presence of combustible gas.
6. After lighting, continue emergency action and procedure as before.
7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

**Remember:** After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. **Do not assume the area is safe after the well is ignited.**

### **Status check list**

Note: All items on this list must be completed before drilling to production casing point.

1. H2S sign at location entrance.
2. Two (2) wind socks located as required.
3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
4. Air packs inspected and ready for use.
5. Cascade system and hose line hook-up as needed.
6. Cascade system for refilling air bottles as needed.
7. Condition flag on location and ready for use.
8. H2S detection system hooked up and tested.
9. H2S alarm system hooked up and tested.
10. Hand operated H2S detector with tubes on location.
11. 1 – 100' length of nylon rope on location.
12. All rig crew and supervisors trained as required.
13. All outside service contractors advised of potential H2S hazard on well.
14. No smoking sign posted and a designated smoking area identified.
15. Calibration of all H2S equipment shall be noted on the IADC report.

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

### **Procedural check list during H2S events**

#### **Perform each tour:**

1. Check fire extinguishers to see that they have the proper charge.
2. Check breathing equipment to ensure that it is in proper working order.
3. Make sure all the H2S detection system is operative.

#### **Perform each week:**

1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
2. BOP skills (well control drills).
3. Check supply pressure on BOP accumulator stand by source.
4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. ( Air quality checked for proper air grade "D" before bringing to location)
6. Confirm pressure on all supply air bottles.
7. Perform breathing equipment drills with on-site personnel.
8. Check the following supplies for availability.
  - A. Emergency telephone list.
  - B. Hand operated H2S detectors and tubes.

### **General evacuation plan**

1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H<sub>2</sub>S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
3. Company or contractor safety personnel that have been trained in the use of H<sub>2</sub>S detection equipment and self-contained breathing equipment will monitor H<sub>2</sub>S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

**Important: Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.**

### **Emergency actions**

#### **Well blowout – if emergency**

1. Evacuate all personnel to “Safe Briefing / Muster Areas” or off location if needed.
2. If sour gas – evacuate rig personnel.
3. If sour gas – evacuate public within 3000 ft radius of exposure.
4. Don SCBA and shut well in if possible using the buddy system.
5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
6. Give first aid as needed.

#### **Person down location/facility**

1. If immediately possible, contact 911. Give location and wait for confirmation.
2. Don SCBA and perform rescue operation using buddy system.

### Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i  
Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	Cl2	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustible above 5% in air	

- 1) threshold limit – concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit – concentration that will cause death with short-term exposure.
- 3) lethal concentration – concentration that will cause death with short-term exposure.

### Toxic effects of hydrogen sulfide

Table ii  
Physical effects of hydrogen sulfide

<u>Percent (%)</u>	<u>Ppm</u>	<u>Concentration</u> Grains <u>100 std. Ft3*</u>	<u>Physical effects</u>
0.001	<10	00.65	Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in 3 – 15 minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

\*at 15.00 psia and 60'f.

### **Use of self-contained breathing equipment (SCBA)**

1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
2. SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
3. Anyone who may use the SCBA's shall be trained in how to insure proper face-piece to face seal. They shall wear SCBA's in normal air and then wear them in a test atmosphere. (note: such items as facial hair {beard or sideburns} and eyeglasses will not allow proper seal.) Anyone that may be reasonably expected to wear SCBA's should have these items removed before entering a toxic atmosphere. A special mask must be obtained for anyone who must wear eyeglasses or contact lenses.
4. Maintenance and care of SCBA's:
  - a. A program for maintenance and care of SCBA's shall include the following:
    1. Inspection for defects, including leak checks.
    2. Cleaning and disinfecting.
    3. Repair.
    4. Storage.
  - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
    1. Fully charged cylinders.
    2. Regulator and warning device operation.
    3. Condition of face piece and connections.
    4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
  - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
6. SCBA's should be worn when:
  - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H<sub>2</sub>S.

- B. When breaking out any line where H<sub>2</sub>S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H<sub>2</sub>S exists.
- D. When working in areas where over 10 ppm H<sub>2</sub>S has been detected.
- E. At any time there is a doubt as to the H<sub>2</sub>S level in the area to be entered.

**Rescue**  
**First aid for H<sub>2</sub>S poisoning**

**Do not panic!**

Remain calm – think!

1. Don SCBA breathing equipment.
2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
3. Briefly apply chest pressure – arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H<sub>2</sub>S gas poisoning – no matter how remote the possibility is.
6. Notify emergency room personnel that the victim(s) has been exposed to H<sub>2</sub>S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012



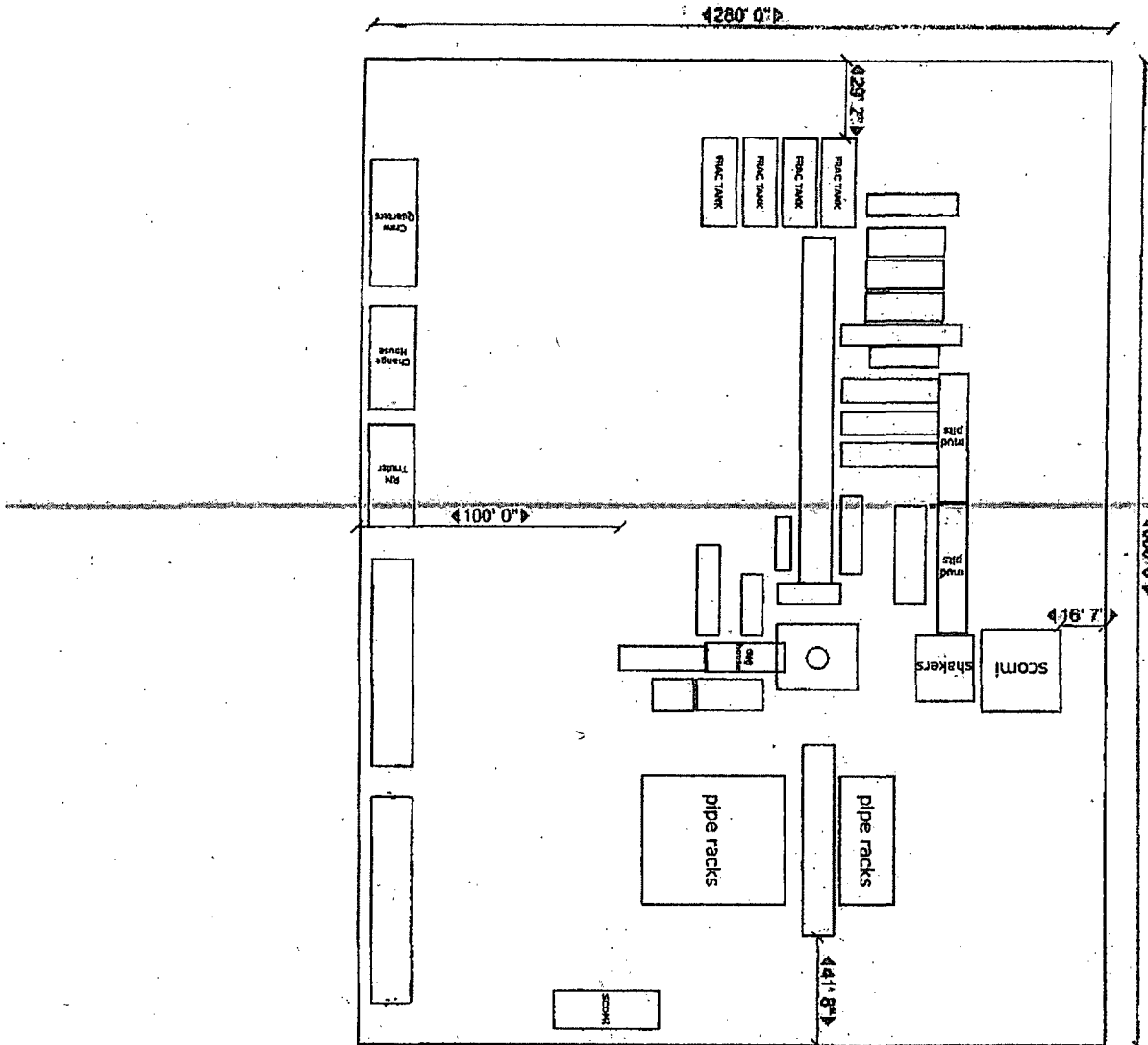
## **Permian Drilling Hydrogen Sulfide Drilling Operations Plan Nimitz 12 Federal #3H**

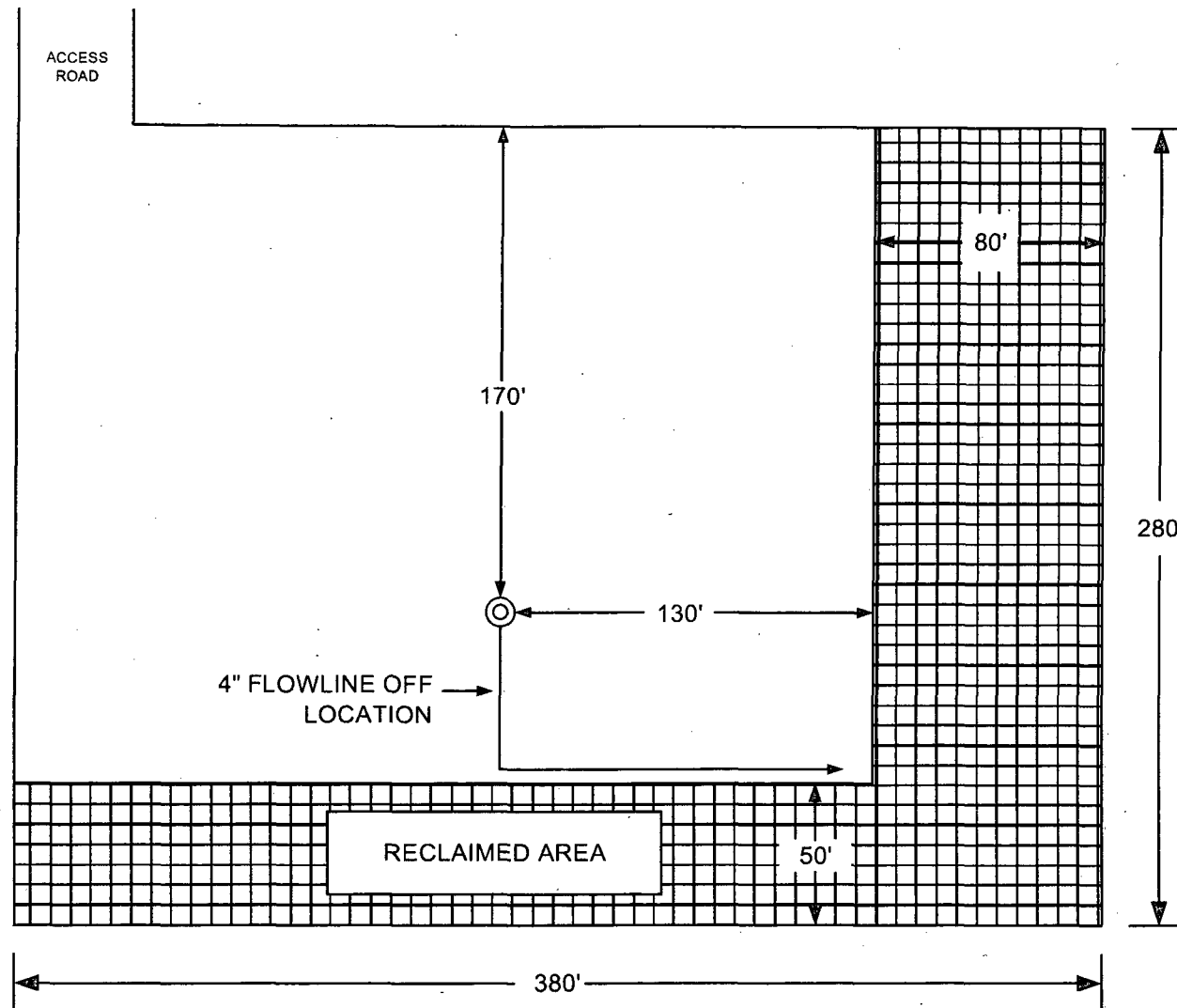
Open drill site. No homes or buildings are near the proposed location.

### **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 Northwest side of the location.  
Personnel need to move to a safe distance and block the entrance to location.

RL-CL-4





REVISION BLOCK						ENGINEERING RECORD		<b>PRODUCTION FACILITY LAYOUT</b> <b>NIMITZ 12 FED #3H</b>  <b>EDDY COUNTY, NEW MEXICO</b>
NO.	DATE	DESCRIPTION	BY	CHK	APP	BY	DATE	
1	7/24/12	PRELIMINARY DRAFT	JMR			DRN: JMR	7/24/12	
						DES:		
						CHK:		
						APP:		
						AFE:		

## PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INC
LEASE NO.:	NM82896
WELL NAME & NO.:	3H-NIMITZ 12 FEDERAL
SURFACE HOLE FOOTAGE:	330'/N. & 2010'/E.
BOTTOM HOLE FOOTAGE:	330'/S. & 2010'/E.
LOCATION:	Section 12, T. 24 S., R. 30 E., NMPM
COUNTY:	Eddy County, New Mexico

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