Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

R-111-POTASH

WIPP

ATS-11-785

FORM APPROVED
OMB NO. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

5 Lease Serial No. NMNM62590-S NMNM62589-BH

1a. Type of Work: ✓ [X] DRILL [ ] REENTER

6. If Indian, Allotee or Tribe Name

1b Type of Well: [X] Oil Well [ ] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

7 Unit or CA Agreement Name and No.

2. Name of Operator: OXY USA Inc. ✓ 16696

8. Lease Name and Well No.: Federal 23 #7H ✓

3a. Address: P.O. Box 50250 Midland, TX 79710-0250

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

9. API Well No.: 30-015- 39436

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

UNORTHODOX LOCATION

10. Field and Pool, or Exploratory: Livingston Ridge Delaware

At surface: 590 FNL 1955 FWL NENW(C) Sec 26

11 Sec., T., R., M., or Blk. and Survey or Area

At proposed prod. zone: 330 FNL 2080 FWL NWNW(C) Sec 23

S-Sec 26 BH-Sec 23 T22S R31E

14. Distance in miles and direction from nearest town or post office*: 20 miles northeast from Loving, NM

12. County or Parish: Eddy

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg unit line, if any)	16 No of Acres in lease	17. Spacing Unit dedicated to this well
590'	640	160

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No on file
176'	13539'M 8228'V	ES0136

21 Elevations (Show whether DF, KDB, RT, GL, etc.	22 Approximate date work will start*	23. Estimated duration
3567.8' ✓	9/1/11	30

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.

RECEIVED
SEP 22 2011
NMOCD ARTESIA

25. Signature	Name (*Printed/Typed*)	Date
	David Stewart	6/13/11

Title: Regulatory Advisor

Approved by (Signautre)	Name (*Printed/Typed*)	Date
/s/ Jesse J. Juen		SEP 12 2011

Title	Office
ACTING STATE DIRECTOR	NM STATE 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 knowlingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on Reverse)

Carlsbad Controlled Water Basin

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

SEE ATTACHED FOR CONDITIONS OF APPROVAL

DRILLING PROGRAM

Operator Name/Number:	**OXY USA Inc.**	**16696**
Lease Name/Number:	**Federal 23 #7H**	**304816**
Pool Name/Number:	**Livingston Ridge Delaware**	**39360**
Surface Location:	**590 FNL 1955 FWL NENW(C) Sec 26 T22S R31E**	**Federal Lease No. NMNM62590**
Bottom Hole Location:	**330 FNL 2080 FWL NENW(C) Sec 23 T22S R31E**	**Federal Lease No. NMNM62589**

Proposed TD: 8228' TVD 13539' TMD **Elevation: 3567.8' GL**
SL - Lat: 32.3679868 Long: 103.7503323 X= 680003.1 Y= 498079.1 NAD - 1927
BH - Lat: 32.3832268 Long: 103.7499315 X= 680096.6 Y= 503623.9 NAD - 1927

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	770'	---
b.	Top Salt	969'	---
c.	Salado	1100'	---
d.	Bottom Salt	4187'	---
e.	Delaware	4474'	---
f.	Bell Canyon	4500'	Oil
g.	Cherry Canyon	5605	Oil
h.	Brushy Canyon	6611'	Oil

3. Casing Program:

See COA

Hole Size	Interval	OD Csg	Weight	Collar	Grade	Condition	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	~~840'~~ 865	13-3/8"	48	ST&C	H-40	New	1.98	4.62	2.38
				Hole filled with 8.4# Mud			770#	1730#	
12-1/4"	~~4250'~~ 4450	9-5/8"	40	LT&C	J-55	New	1.16	1.21	2.12
				Hole filled with 10# Mud			2750#	3950#	
8-3/4"	13533' M	5-1/2"	17	BTC	N-80	New	1.6	2.69	1.89
DVT @ 6000' - POST @ 4300'				Hole filled with 9.2# Mud			6280#	7740#	

Collapse and burst loads calculated using Stress Check with anticipated loads

4. Cement Program

a. 13-3/8" Surface Circulate cement to surface w/ + 630sx PP cmt w/ 4% Bentonite + .125#/sx Poly-E-Flake + 2% CaCl2, 13.5ppg, 1.75 yield, 840# 24hr CS, 150% Excess followed by 300sx PP cmt w/ 2% CaCl2, 14.8ppg, 1.35 yield, 2500#-24hr CS, 150% Excess

b. 9-5/8" Intermediate Circulate cement to surface w/ 1310sx HES light PP cmt w/ 5% Salt + .125#/sx Poly-E-Flake + 5#/sx Gilsonite + 0.5% Halad-344 + 1% CaCl2 + 0.3% CFR-3, 12.9ppg, 1.89 yield, 840# 24hr CS, 125% Excess followed by 200sx PP cmt w/ 0.5% WellLife 734, 14.8ppg, 1.34 yield, 1343#-24hr CS, 125% Excess

c.	5-1/2"	Production	Cement 1st stage w/ 2190sx Super H w/ .5% Halad-344 + .4% CFR-3 + 3#/sx Gilsonite + .3% HR-800, 13.2ppg, 1.62 yield, 1817# 24 CS, 85% Excess, Calc TOC-5995' Cement 2nd stage w/ 600sx HES light PP cmt w/ 1#/sx Salt + .125#/sx Pheno Seal + 5#/sx Gilsonite + 0.4% CFR-3 + 0.3% HR-800, 13.2ppg, 1.61 yield, 1536# 24hr CS, 125% Excess, Calc TOC-3075' Cement 3rd stage w/ 640sx HES Light PP cmt w/ 3#/sx Salt, 12.4ppg, 2.08 yield, 560# 24CS, 35% Excess followed by 150sx PP cmt w/ .125#/sx Poly-E-Flake + 5#/sx Gilsonite, 14.8ppg, 1.33 yield, 1750# 24CS, 35% Excess, Circ Surface

5. Pressure Control Equipment:

Surface	None
Production	13-5/8" 10M two ram stack w/ 5M annular preventer, 10M Choke Manifold

All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Wellhead pressure rating will support this test and 13-3/8" casing will be protected from high pressure. Since the wellhead system is a multibowl design, this initial test will cover the requirements prior to drilling out the 9-5/8" casing shoe.

Pipe Rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 5000 psi WP rating.
OXY requests that the entire system be tested as a 5000psi WP rating.

OXY also requests a variance to connect the BOP 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.

6. Proposed Mud Circulation System

Depth	Mud Wt. ppg	Visc sec	Fluid Loss	Type System
0 - 840' 865	8.4-8.9	32-34	NC	Fresh Water/Spud Mud
840 - 4250' 4450	9.8-10.0	28-29	NC	Brine Water
4250 - 7600'	8.6-8.8	28-29	NC	Fresh Water
7600 - TD'	9.0-9.2	50-50	8-15	LSND

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.

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 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.

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 open hole electrical logging program will consist of GR from kick-off point to TD.
c. No coring program is planned but if done will be sidewall rotary cores.
d. No mudloggers are currently programmed for this well.

9. Potential Hazards:

No abnormal pressures, temperatures or H_2S gas are expected. The highest anticipated pressure gradient would be 0.54psi/ft or 3700psi. If H_2S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No lost circulation is expected to occur. 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 45 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.

Occidental Permian Ltd.
Federal 23 7H
Eddy Co, NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	
2	7665.50	0.00	0.96	7665.50	0.00	0.00	0.00	0.00	0.00	
3	8566.73	90.12	0.96	8238.46	574.11	9.59	10.00	0.96	574.19	
4	8872.66	90.12	0.96	8237 80	880.00	14.70	0.00	0.00	880.12	Tgt
5	13538.14	90.12	0.98	8227.80	5544.80	93.50	0.00	89.95	5545.59	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
7H	0.00	0.00	498079.10	680003.10	32°22'04.753N	103°45'01.196W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8227.80	5544.80	93.50	503623.90	680096.60	Point
Tgt	8237.80	880.00	14.70	498959.10	680017.80	Point

KB ELEV: 3592.30
GL ELEV: 3567.80

SITE DETAILS

Federal 23 7H

Site Centre Northing: 498079.10
Easting: 680003.10

Ground Level: 3567.80
Positional Uncertainty: 0.00
Convergence: 0.31

FIELD DETAILS

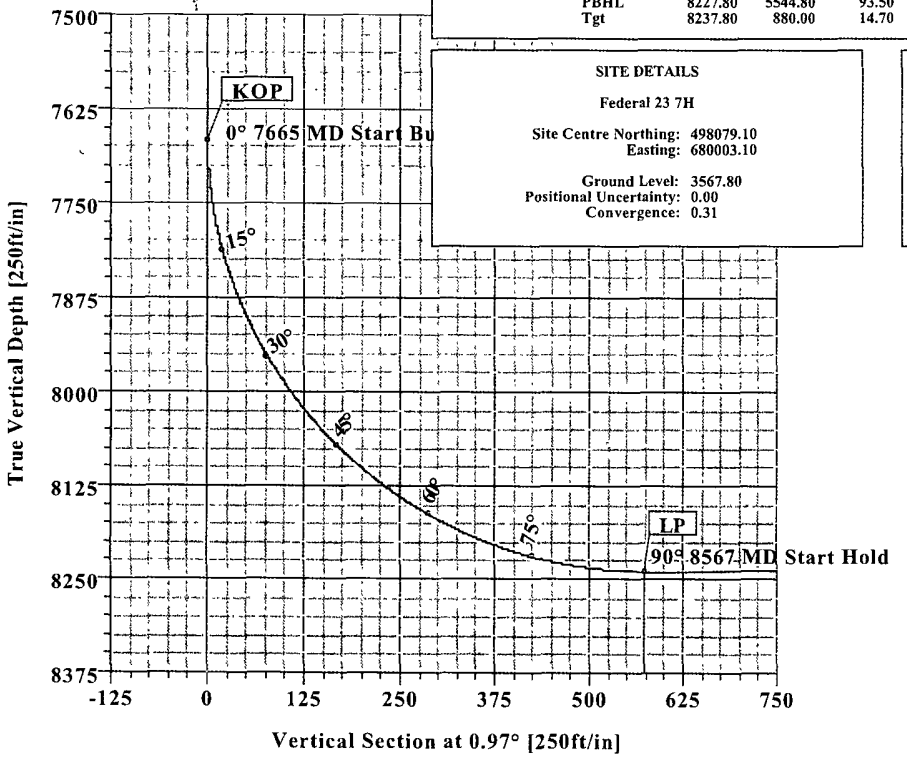
Eddy Co, NM (Nad 27)

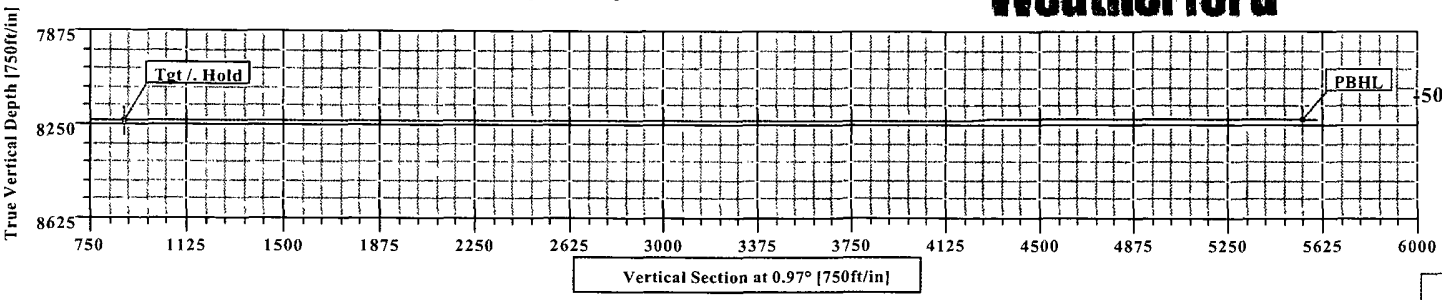
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

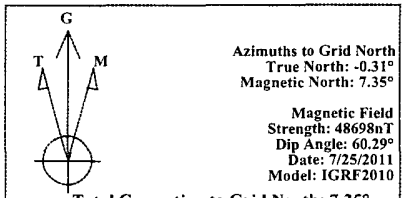
System Datum: Mean Sea Level
Local North: Grid North

LEGEND

#11H (1)
1
Plan #1







Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.35°

Magnetic Field
Strength: 48698nT
Dip Angle: 60.29°
Date: 7/25/2011
Model: IGRF2010

Total Correction to Grid North: 7.35°

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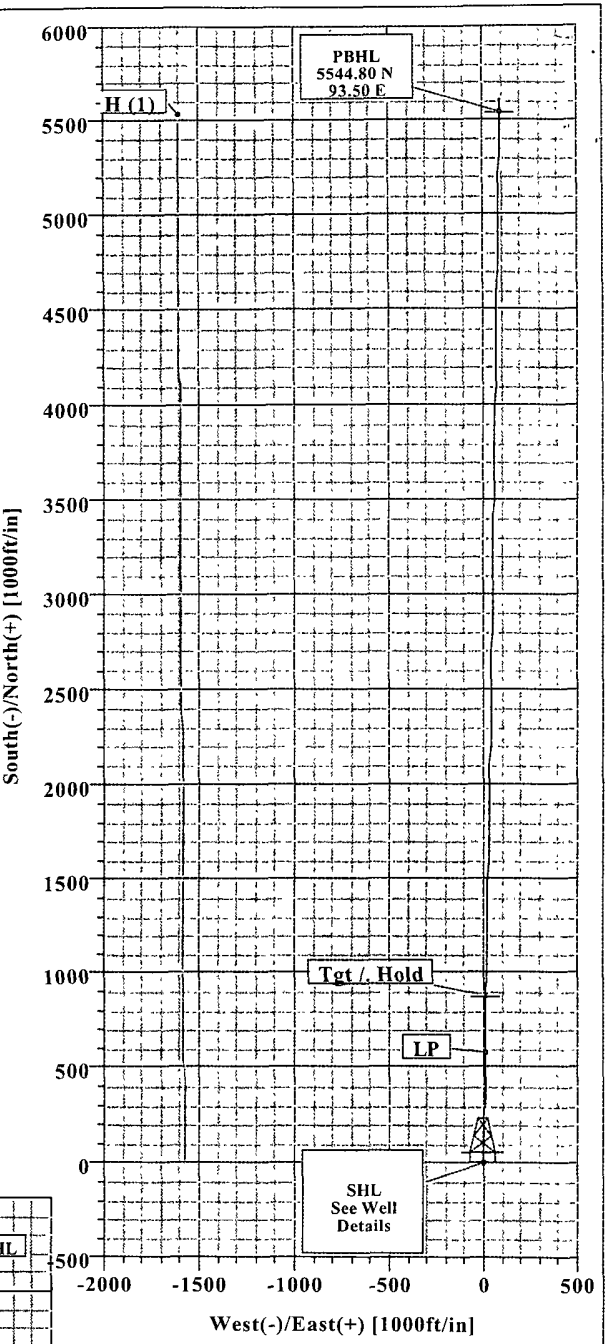

Plan: Plan #1 (7H/1)

Created By: Keith Noack Date: 4/19/2011

Weatherford International Ltd.

WFT Plan Report - X & Y's

Weatherford

Company:	Occidental Permian Ltd.	**Date:** 4/19/2011 **Time:** 09:09:43	**Page:** 1
Field:	Eddy Co, NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: 7H, Grid North
Site:	Federal 23 7H	**Vertical (TVD) Reference:**	SITE 3592.3
Well:	7H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.97Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Plan:	Plan #1	**Date Composed:**	4/14/2011
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Field: Eddy Co, NM (Nad 27)

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

Site: Federal 23 7H

Site Position:		**Northing:**	498079.10 ft	**Latitude:**	32 22	4.753	N
From:	Map	**Easting:**	680003 10 ft	**Longitude:**	103 45	1.196	W
Position Uncertainty:	0.00 ft			**North Reference:**		Grid	
Ground Level:	3567.80 ft			**Grid Convergence:**		0.31	deg

Well: 7H **Slot Name:**

Well Position:	**+N/-S**	0.00 ft	**Northing:**	498079.10 ft	**Latitude:**	32	22	4.753 N
	+E/-W	0.00 ft	**Easting :**	680003.10 ft	**Longitude:**	103	45	1.196 W
Position Uncertainty:		0.00 ft						

Wellpath: 1

Drilled From:	Surface				
Tie-on Depth:	0.00 ft				
Current Datum:	SITE	**Height** 3592.30 ft	**Above System Datum:**	Mean Sea Level	
Magnetic Data:	4/14/2011		**Declination:**	7.70 deg	
Field Strength:	48726 nT		**Mag Dip Angle:**	60.29 deg	

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	0.97

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	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7665 50	0.00	0.96	7665.50	0.00	0.00	0.00	0.00	0.00	0.00	
8566.73	90.12	0.96	8238.46	574.11	9.59	10.00	10.00	0.00	0.96	
8872.66	90.12	0.96	8237.80	880.00	14.70	0.00	0.00	0.00	0.00	Tgt
13538.14	90.12	0.98	8227.80	5544.80	93.50	0.00	0.00	0 00	89.95	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
7600.00	0.00	0.96	7600.00	0.00	0 00	0.00	0.00	498079.10	680003.10	
7665.50	0.00	0.96	7665.50	0.00	0.00	0.00	0.00	498079 10	680003.10	KOP
7700.00	3.45	0.96	7699.98	1.04	0.02	1.04	10.00	498080.14	680003.12	
7800.00	13.45	0.96	7798.77	15.71	0.26	15.71	10.00	498094.81	680003.36	
7900.00	23.45	0.96	7893.51	47.32	0.79	47.32	10.00	498126.42	680003 89	
8000.00	33.45	0.96	7981.32	94.89	1.59	94.90	10.00	498173.99	680004.69	
8100.00	43.45	0.96	8059.54	156.98	2.62	157.01	10.00	498236.08	680005.72	
8200.00	53.45	0.96	8125.78	231.72	3.87	231.75	10.00	498310.82	680006.97	
8300.00	63.45	0.96	8178.04	316.81	5.29	316.86	10.00	498395.91	680008.39	
8400.00	73.45	0.96	8214.72	409.69	6.84	409.75	10.00	498488.79	680009.94	
8500.00	83.45	0.96	8234.72	507.53	8.48	507.60	10.00	498586.63	680011.58	
8566.73	90.12	0.96	8238.46	574.11	9.59	574.19	10.00	498653.21	680012.69	LP
8600 00	90.12	0.96	8238.38	607.37	10.15	607.46	0 00	498686.47	680013.25	
8700.00	90.12	0.96	8238.17	707.36	11.82	707.46	0.00	498786.46	680014 92	
8800.00	90.12	0.96	8237.96	807.35	13.49	807.46	0.00	498886.45	680016 59	
8872.66	90.12	0.96	8237.80	880.00	14.70	880.12	0.00	498959.10	680017.80	Tgt

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WFT Plan Report - X & Y's

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Company:	Occidental Permian Ltd.	**Date:**	4/19/2011	**Time:** 09:09:43	**Page:** 2
Field:	Eddy Co. NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: 7H, Grid North		
Site:	Federal 23 7H	**Vertical (TVD) Reference:**	SITE 3592.3		
Well:	7H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.97Azi)		
Wellpath:	1	**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
8900.00	90.12	0.96	8237.74	907.33	15.16	907.46	0.00	498986.43	680018.26	
9000.00	90.12	0.96	8237.53	1007.32	16.83	1007.46	0.00	499086.42	680019.93	
9100.00	90.12	0.96	8237.31	1107.30	18.50	1107.46	0.00	499186.40	680021.60	
9200.00	90.12	0.96	8237.10	1207.29	20.17	1207.46	0.00	499286.39	680023.27	
9300.00	90.12	0.96	8236.88	1307.27	21.84	1307.46	0.00	499386.37	680024.94	
9400.00	90.12	0.96	8236.67	1407.26	23.52	1407.46	0.00	499486.36	680026.62	
9500.00	90.12	0.96	8236.46	1507.25	25.19	1507.46	0.00	499586.35	680028.29	
9600.00	90.12	0.96	8236.24	1607.23	26.87	1607.46	0.00	499686.33	680029.97	
9700.00	90.12	0.96	8236.03	1707.22	28.55	1707.46	0.00	499786.32	680031.65	
9800 00	90.12	0.96	8235.81	1807.20	30.22	1807.46	0.00	499886.30	680033.32	
9900.00	90.12	0.96	8235.60	1907.19	31.90	1907.46	0.00	499986.29	680035.00	
10000.00	90.12	0.96	8235.38	2007.17	33.58	2007.46	0.00	500086.27	680036.68	
10100.00	90.12	0.96	8235.17	2107.16	35.26	2107.46	0.00	500186.26	680038.36	
10200.00	90.12	0 96	8234.96	2207.15	36.94	2207.45	0.00	500286.25	680040.04	
10300.00	90.12	0.96	8234.74	2307.13	38.62	2307.45	0.00	500386.23	680041.72	
10400.00	90.12	0.96	8234.53	2407.12	40 30	2407.45	0.00	500486.22	680043.40	
10500.00	90.12	0.96	8234.31	2507.10	41.99	2507.45	0.00	500586.20	680045.09	
10600.00	90.12	0.96	8234.10	2607.09	43.67	2607.45	0.00	500686.19	680046.77	
10700.00	90.12	0.97	8233.88	2707.07	45.35	2707.45	0.00	500786.17	680048.45	
10800.00	90.12	0.97	8233.67	2807.06	47.04	2807.45	0.00	500886.16	680050.14	
10900.00	90.12	0.97	8233.45	2907.04	48.73	2907.45	0.00	500986.14	680051.83	
11000.00	90.12	0.97	8233.24	3007.03	50.41	3007.45	0.00	501086.13	680053.51	
11100.00	90.12	0.97	8233.03	3107.02	52.10	3107.45	0.00	501186.12	680055.20	
11200.00	90.12	0.97	8232.81	3207.00	53.79	3207.45	0.00	501286.10	680056.89	
11300.00	90.12	0.97	8232.60	3306.99	55.48	3307.45	0.00	501386 09	680058.58	
11400.00	90.12	0.97	8232.38	3406.97	57.17	3407.45	0.00	501486.07	680060.27	
11500.00	90.12	0.97	8232.17	3506.96	58.86	3507.45	0.00	501586.06	680061.96	
11600.00	90.12	0.97	8231.95	3606.94	60.55	3607.45	0.00	501686.04	680063.65	
11700.00	90.12	0.97	8231.74	3706.93	62.24	3707.45	0.00	501786.03	680065.34	
11800.00	90.12	0.97	8231.53	3806.91	63.94	3807.45	0.00	501886.01	680067.04	
11900.00	90.12	0.97	8231.31	3906.90	65.63	3907.45	0.00	501986.00	680068.73	
12000.00	90.12	0.97	8231.10	4006.89	67.33	4007.45	0.00	502085.99	680070.43	
12100 00	90.12	0.97	8230.88	4106.87	69.02	4107.45	0.00	502185.97	680072.12	
12200.00	90.12	0.97	8230.67	4206.86	70.72	4207.45	0.00	502285.96	680073.82	
12300.00	90.12	0.97	8230.45	4306.84	72.42	4307.45	0.00	502385.94	680075.52	
12400.00	90 12	0.97	8230 24	4406.83	74.12	4407.45	0 00	502485.93	680077.22	
12500.00	90.12	0.97	8230.03	4506.81	75 81	4507.45	0.00	502585.91	680078.91	
12600.00	90 12	0.97	8229.81	4606.80	77.51	4607.45	0.00	502685.90	680080.61	
12700.00	90.12	0.97	8229.60	4706.78	79.21	4707.45	0 00	502785.88	680082.31	
12800.00	90.12	0.98	8229.38	4806.77	80.92	4807.45	0.00	502885.87	680084.02	
12900.00	90.12	0.98	8229.17	4906.75	82.62	4907.45	0.00	502985.85	680085.72	
13000.00	90.12	0.98	8228.95	5006.74	84.32	5007.45	0.00	503085.84	680087.42	
13100.00	90.12	0.98	8228.74	5106.72	86.03	5107.45	0.00	503185.82	680089.13	
13200.00	90.12	0.98	8228.52	5206.71	87.73	5207.45	0.00	503285.81	680090.83	
13300.00	90.12	0.98	8228 31	5306.69	89.44	5307.45	0.00	503385.79	680092.54	
13400.00	90.12	0.98	8228.10	5406.68	91.14	5407.45	0.00	503485.78	680094.24	
13500.00	90.12	0.98	8227.88	5506.66	92.85	5507.45	0.00	503585.76	680095.95	
13538.14	90.12	0.98	8227.80	5544.80	93.50	5545.59	0.00	503623.90	680096.60	PBHL

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

Company:	Occidental Permian Ltd.	**Date:**	4/19/2011	**Time:**	09:09:43	**Page:**	3
Field:	Eddy Co, NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: 7H, Grid North				
Site:	Federal 23 7H	**Vertical (TVD) Reference:**	SITE 3592.3				
Well:	7H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.97Azi)				
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase		

Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	<-- Latitude -->			<-- Longitude -->		
	Dip. Dir.	ft	ft	ft	ft	ft	Deg	Min	Sec	Deg	Min	Sec
PBHL		8227.80	5544.80	93.50	503623.90	680096.60	32	22	59.617 N	103	44	59.753 W
Tgt		8237.80	880.00	14.70	498959.10	680017.80	32	22	13.460 N	103	45	0.968 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

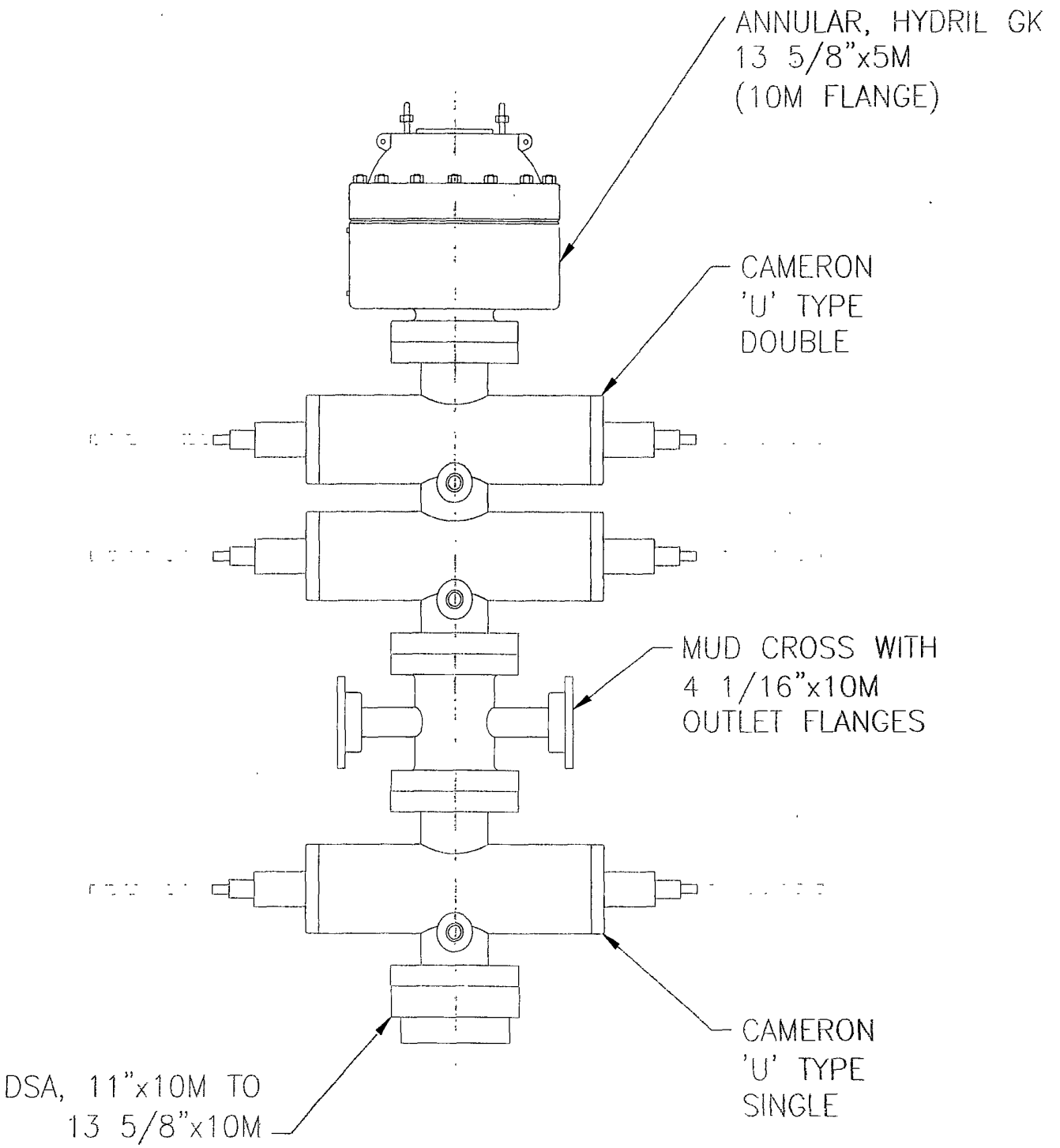
Annotation

MD	TVD	
ft	ft	
7665.50	7665.50	KOP
8566.73	8238.46	LP
8872.66	8237.80	Tgt /. Hold
13538.14	8227.80	PBHL

Formations

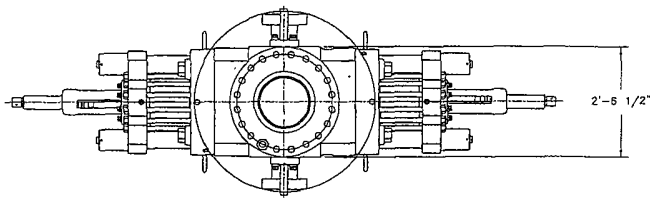
MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

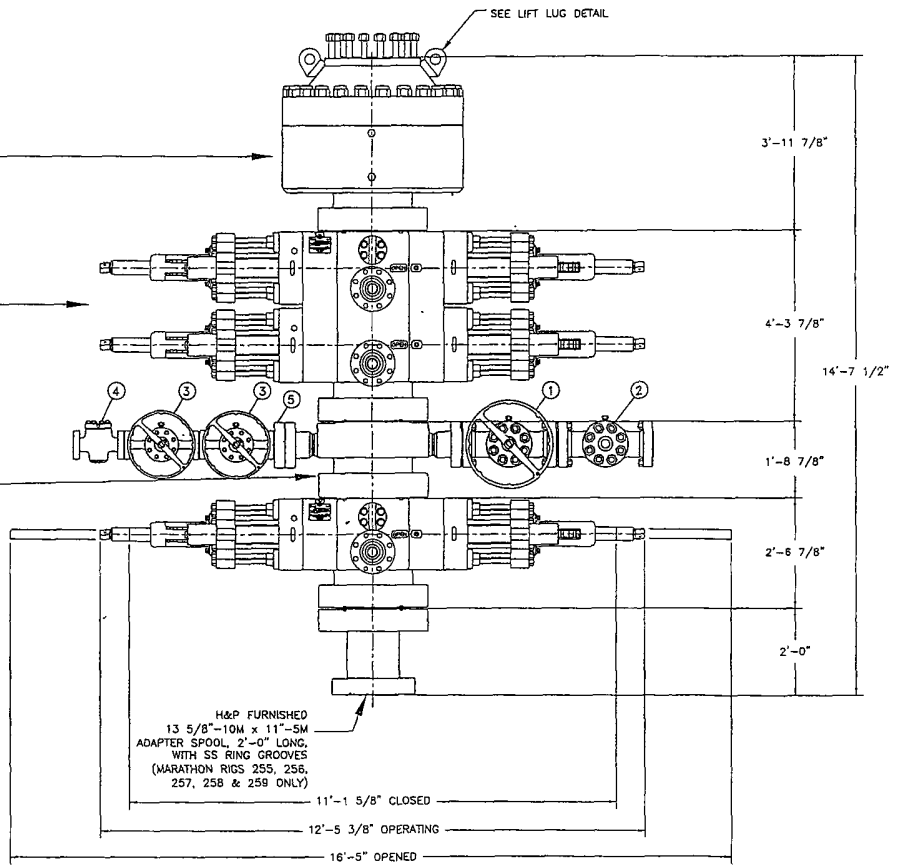
BOP Diagram



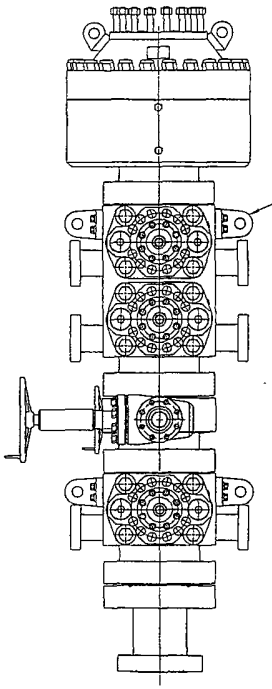
BOP STACK

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 STACK



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
E	12/18/07	ADDED SHEET 03	JAV
D	4–10–07	ORIENTATION REVISED, DOUBLE STUDDED ADAPTER, VALVES 1, 2, & 3, AND HS CHECK VALVE ADDED	JBC
C	4–04–07	6" ADDED TO SPACER ADAPTER SPOOL	JBC
B	02–07–07	ADDED ADAPTER SPOOL	MWL
A	06–13–02	CORRECTED BOP STACK	MWL

ENGINEERING APPROVAL | DATE

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 1