

Submit 1 Copy to Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
October 13, 2009

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-39370
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Roo 22 State
8. Well Number 1
9. OGRID Number 192463
10. Pool name or Wildcat Empire-Glorieta Yeso
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3606.4

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
OXY USA WTP LP

3. Address of Operator
P.O. Box 50250 Midland, TX 79710

4. Well Location
Unit Letter **M** : **1289** feet from the **South** line and **693** feet from the **West** line
Section **22** Township **17S** Range **28E** NMPM County **Eddy**

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☒

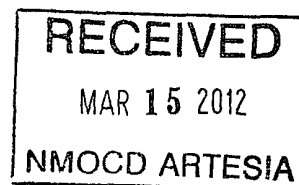
OTHER: **Amend to Directional** ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

OXY USA WTP LP respectfully requests to amend the APD for the Roo 22 State #1, API No. 30-015-39370 with the following changes.

1. Amend from vertical to directional well, 5200'-TVD 5219'-TMD
2. See attached for an amended C-102.
3. See attached for the amended production casing & cementing programs.
4. See attached for the amended proposed directional drilling plan.



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *David Stewart* TITLE Regulatory Advisor DATE 11/18/11

Type or print name David Stewart E-mail address: david_stewart@oxy.com PHONE: 432-685-5717

For State Use Only

APPROVED BY: *J. C. Shepard* TITLE Geologist DATE 3/22/2012

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

RECEIVED
R 15 2012
NMOC D ARTESIA

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39370	Pool Code 96210	Pool Name Empire Glaucoma Yeso
Property Code 309603	Property Name ROO 22 STATE	Well Number 1
OGRI No. 192463	Operator Name OXY USA WTP Limited Partnership	Elevation 3606.4'

Surface Location

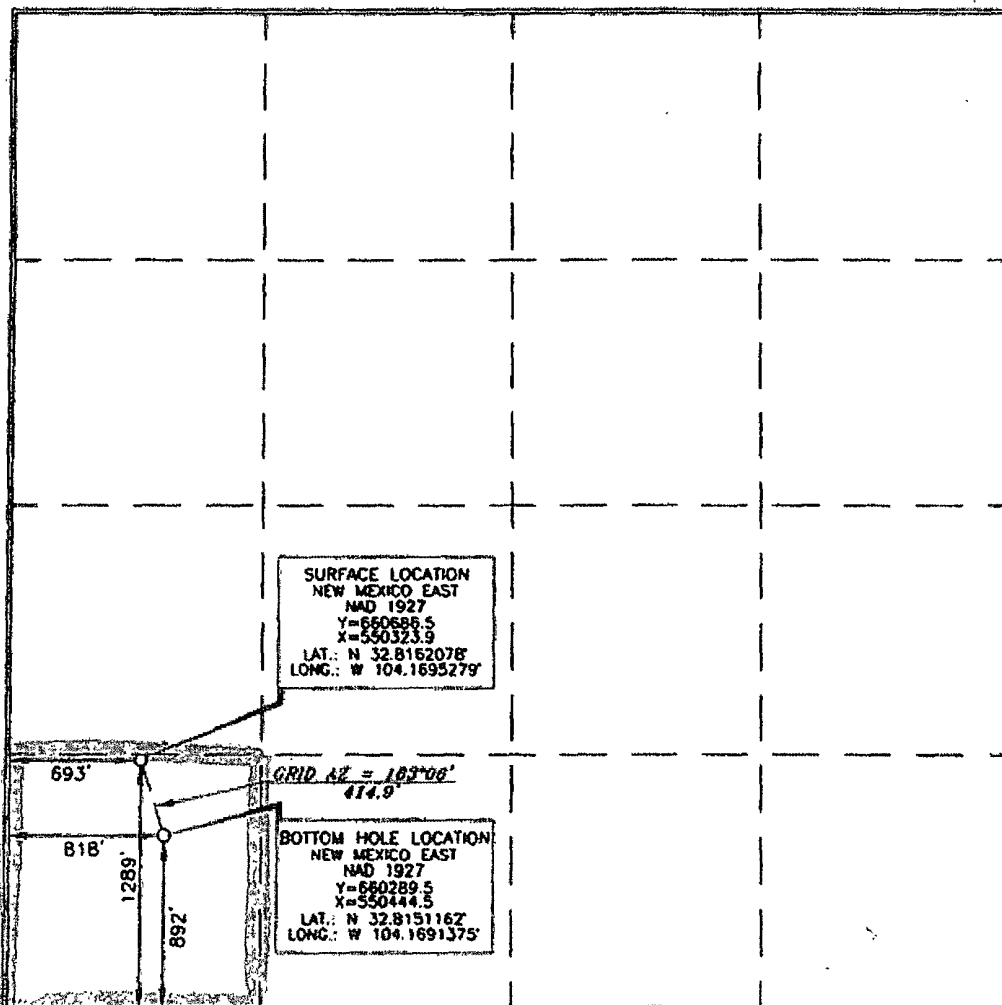
UL or lot no.	Section	Township	Range	Lat. 1st	Feet from the	North/South line	Feet from the	East/West line	County
M	22	17 SOUTH	28 EAST, N.M.P.M.		1289'	SOUTH	693'	WEST	EDDY

Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lat. 1st	Feet from the	North/South line	Feet from the	East/West line	County
M	22	17 SOUTH	28 EAST, N.M.P.M.		892'	SOUTH	818'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40	N		

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.



OPERATOR CERTIFICATION

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.

[Signature] 11/14/11
Signature Date

David Stewart-Roy Advisor
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was derived from field notes of actual survey made by me or under my supervision and that the same is true and correct to the best of my belief.

15079
SEPTEMBER 28 2011
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

10/4/2011
Certificate Number 15079

WOP 110928WL-m (KA)

Amend To Directional

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6181 Fax (505) 393-4020
District II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1263 Fax (505) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87416
Phone (505) 334-6178 Fax (505) 334-6171
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3470 Fax (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 136833

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address OXY USA INC PO Box 4294 Houston, TX 77210		2. OGRID Number 16696
		3. API Number 30-015-39370
4. Property Code 38782	5. Property Name ROO 22 STATE	6. Well No 001

7. Surface Location

UL - Loc	Section	Township	Range	Lot Id	Feet From	N S Line	Feet From	E W Line	County
NI	22	17S	28E	NI	1289	S	693	W	EDDY

8. Pool Information

EMPIRE; GLORIETA-YESO 96230

Additional Well Information

9. Well Type New Well	10. Well Type OIL	11. Cable Rotary	12. Lease Type State	13. Ground Level Elevation 5606
14. Multiple N	15. Proposed Depth 5200	16. Formation Tubb	17. Contractor	18. Spud Date 11/1/2011
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	400	250	0
Prod	8.75	8.5	17	5200	2080	0

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	5000	5000	H&P

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐ . Printed Name: Electronically filed by KAREN M SINARD Title: Email Address: karen_sinard@oxy.com Date: 8/31/2011	OIL CONSERVATION DIVISION	
	Approved By: Randy Dade	
	Title: District Supervisor	
	Approved Date: 9/1/2011	Expiration Date: 9/1/2013
	Conditions of Approval Attached	

Amended Permit

Operator Name/Number:	OXY USA WTP Limited Partnership		192463
Lease Name/Number:	Roo 22 State #1	API No. 30-015-39370	309603
Pool Name/Number:	Empire Glorieta Yeso		96210
Surface Location:	1289 FSL 693 FWL M	Sec 22 T17S R28E	
Bottom Hole Location:	892 FSL 818 FWL M	Sec 22 T17S R28E	

C-102 Plats: 9/28/11 10/4/11 10/20/11 Elevation: 3606.4' GL

Proposed TD: 5200' TVD 5219' TMD
 SL - Lat: 32.8162078 Long: 104.1695279 X= 550323.9 Y= 660686.5 NAD - 1927
 BH - Lat: 32.8151162 Long: 104.1691375 X= 550444.5 Y= 660289.5 NAD - 1927

Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
12-1/4"	400'	9-5/8"	36	ST&C	J-55	New	6.57	1.62	2.21
				Hole filled with 8.4# Mud			2020#	3520#	
8-3/4"	5219'	5-1/2"	17	LT&C	J-55	New	2.25	2.44	2.78
				Hole filled with 10.0# Mud			4910#	5320#	

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program:

- a. 9-5/8" Surface Circulate cement to surface w/ 250sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield
2500# 24hr CS 150% Excess
- b. 5-1/2" Production Circulate Cement w/ 940sx HES Light PP cmt w/ 5% Salt + 5#/sx Gilsonite + 0.125#/sx Poly-E-Flake, 12.9ppg 1.87 yield 530# 24hr CS 150% Excess followed by 1140sx 50/50 Poz/PP cmt w/ 3% salt + 0.4% Halad R-322 + 0.125#/sx Poly-E-Flake, 14.5ppg 1.24 yield
980# 24hr CS 150% Excess.

Proposed Mud Circulation System:

<u>Depth</u>	<u>Mud Wt.</u> <u>ppg</u>	<u>Visc</u> <u>sec</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 - 400'	8.4-8.9	32-34	NC	Fresh Water/Spud Mud
400 - TD	9.8-10.0	28-29	NC	Brine Water

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.

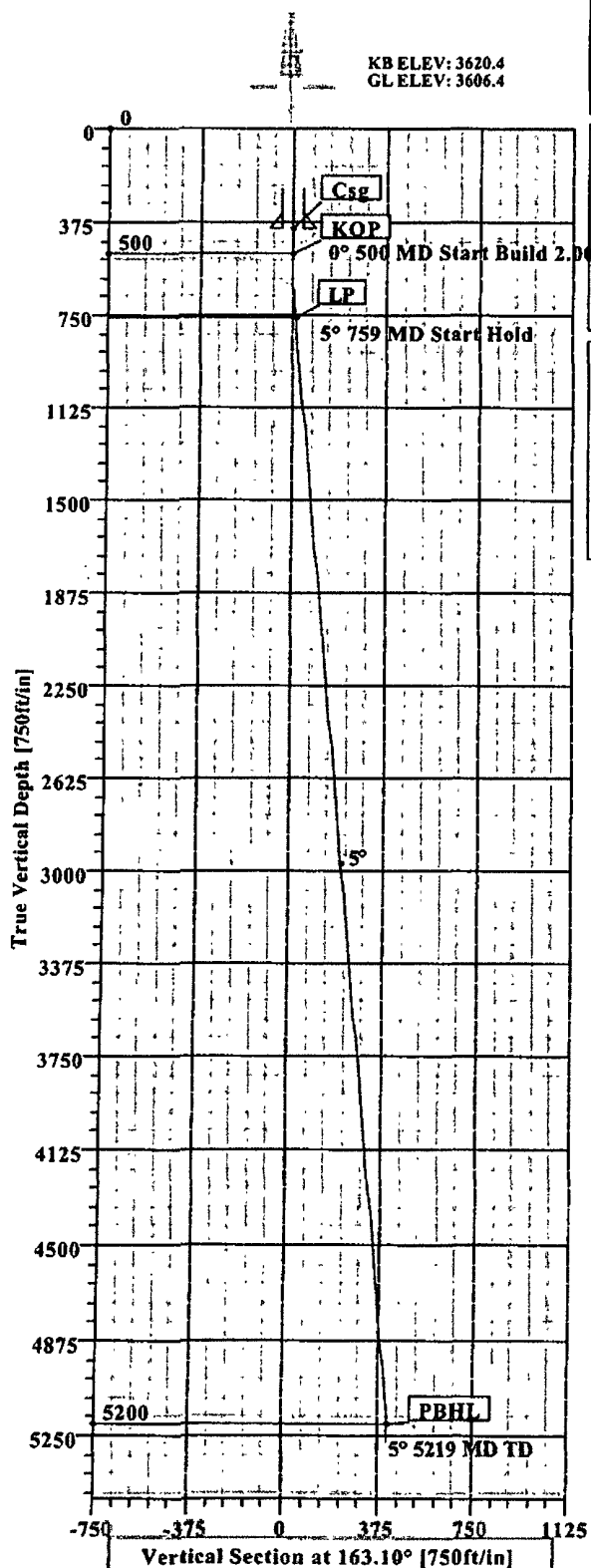
BOP Program (1):

Surface None
 Production 11" X 3M Double Ram, 11" X 3M Annular, 3M Choke Manifold

<u>Geological Marker</u>	<u>Depth</u>	<u>Type</u>	<u>Source</u>
a. Rustler	352'	Formation	Drlg
b. Tansil	498'	Formation	Drlg
c. Yates	625'	Oil/Gas	Drlg
d. Seven Rivers	755'	Oil/Gas	Drlg
e. Queen	1438'	Oil/Gas	Drlg
f. San Andres	2187'	Oil/Gas	Drlg
g. Glorietta	3571'	Oil/Gas	Drlg
h. Yeso	5069'	Oil/Gas	Drlg



ROO 22 State 1 Eddy Co., NM



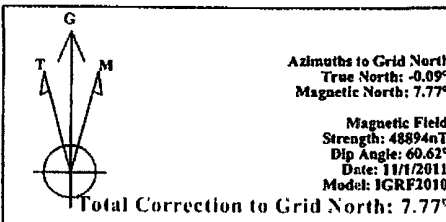
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	163.10	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	163.10	500.00	0.00	0.00	0.00	0.00	0.00	
3	759.37	5.19	163.10	759.02	-11.23	3.41	1.00	163.10	11.73	
4	5218.62	5.19	163.10	5200.00	-397.00	120.60	0.00	0.00	414.91	PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
ROO 22 State 1	0.00	0.00	660686.50	550323.90	32°48'58.349N	104°10'10.300W

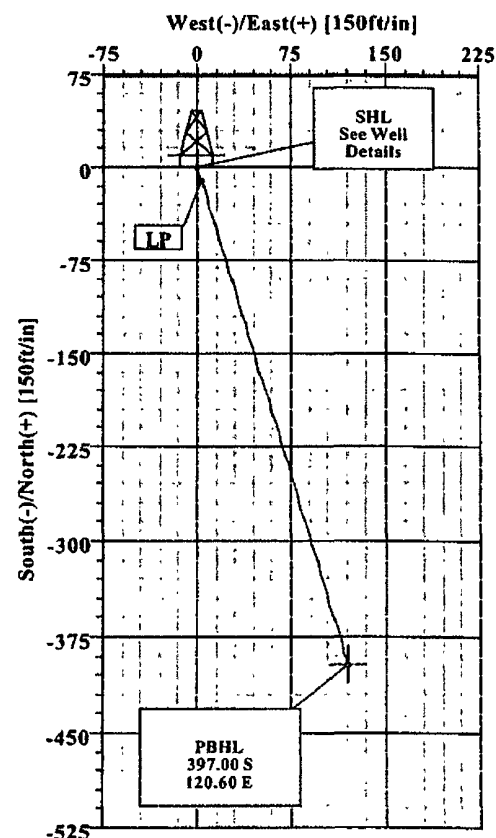
TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	5200.00	-397.00	120.60	660289.50	550444.50	Point

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	
ROO 22 State 1	
Site Centre Northing:	660686.50
Easting:	550323.90
Ground Level:	3606.40
Positional Uncertainty:	0.00
Convergence:	0.09



LEGEND	
1	Plan #1





Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 10/6/2011 Time: 10:44:54 Page: 1
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: ROO 22 State 1, Grid North
 Site: ROO 22 State 1 Vertical (TVD) Reference: SITE 3620.4
 Well: ROO 22 State 1 Section (VS) Reference: Well (0.00N,0.00E,163.10Az)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 10/6/2011
 Principal: Yes Version: 1
 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: ROO 22 State 1
 Site Position: Northing: 660686.50 ft Latitude: 32 48 58.349 N
 From: Map Easting: 550323.90 ft Longitude: 104 10 10.300 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3606.40 ft Grid Convergence: 0.09 deg

Well: ROO 22 State 1 Slot Name:
 Well Position: +N/-S 0.00 ft Northing: 660686.50 ft Latitude: 32 48 58.349 N
 +E/-W 0.00 ft Easting: 550323.90 ft Longitude: 104 10 10.300 W
 Position Uncertainty: 0.00 ft

Wellpath: 1
 Current Datum: SITE Height 3620.40 ft Drilled From: Surface
 Magnetic Data: 11/1/2011 Tie-on Depth: 0.00 ft
 Field Strength: 48894 nT Above System Datum: Mean Sea Level
 Vertical Section: Depth From (TVD) +N/-S ft Mag Dip Angle: 7.86 deg
 ft +E/-W ft Direction deg
 6000.00 0.00 0.00 163.10

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	163.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	163.10	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
759.37	5.19	163.10	759.02	-11.23	3.41	2.00	2.00	0.00	163.10	
5218.62	5.19	163.10	5200.00	-397.00	120.60	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
400.00	0.00	163.10	400.00	0.00	0.00	0.00	0.00	660686.50	550323.90	Csg
500.00	0.00	163.10	500.00	0.00	0.00	0.00	0.00	660686.50	550323.90	KOP
600.00	2.00	163.10	599.98	-1.67	0.51	1.75	2.00	660684.83	550324.41	
700.00	4.00	163.10	699.84	-6.68	2.03	6.98	2.00	660679.82	550325.93	
759.37	5.19	163.10	759.02	-11.23	3.41	11.73	2.00	660675.27	550327.31	LP
800.00	5.19	163.10	799.48	-14.74	4.48	15.41	0.00	660671.76	550328.38	
900.00	5.19	163.10	899.07	-23.39	7.11	24.45	0.00	660663.11	550331.01	
1000.00	5.19	163.10	998.66	-32.04	9.73	33.49	0.00	660654.46	550333.63	
1100.00	5.19	163.10	1098.25	-40.69	12.36	42.53	0.00	660645.81	550336.26	
1200.00	5.19	163.10	1197.84	-49.35	14.99	51.57	0.00	660637.15	550338.89	
1300.00	5.19	163.10	1297.43	-58.00	17.62	60.61	0.00	660628.50	550341.52	
1400.00	5.19	163.10	1397.02	-66.65	20.25	69.66	0.00	660619.85	550344.15	
1500.00	5.19	163.10	1496.61	-75.30	22.87	78.70	0.00	660611.20	550346.77	
1600.00	5.19	163.10	1596.20	-83.95	25.50	87.74	0.00	660602.55	550349.40	
1700.00	5.19	163.10	1695.79	-92.60	28.13	96.78	0.00	660593.90	550352.03	
1800.00	5.19	163.10	1795.38	-101.25	30.76	105.82	0.00	660585.25	550354.66	
1900.00	5.19	163.10	1894.97	-109.90	33.39	114.86	0.00	660576.60	550357.29	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: ROO 22 State 1
Well: ROO 22 State 1
Wellpath: 1

Date: 10/6/2011 Time: 10:44:54 Page: 2
Co-ordinate(NE) Reference: Well: ROO 22 State 1, Grid North
Vertical (TVD) Reference: SITE 3620.4
Section (VS) Reference: Well (0.00N,0.00E,163.10Az)
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
2000.00	5.19	163.10	1994.56	-118.55	36.01	123.90	0.00	660567.95	550359.91	
2100.00	5.19	163.10	2094.15	-127.21	38.64	132.95	0.00	660559.29	550362.54	
2200.00	5.19	163.10	2193.75	-135.86	41.27	141.99	0.00	660550.64	550365.17	
2300.00	5.19	163.10	2293.34	-144.51	43.90	151.03	0.00	660541.99	550367.80	
2400.00	5.19	163.10	2392.93	-153.16	46.53	160.07	0.00	660533.34	550370.43	
2500.00	5.19	163.10	2492.52	-161.81	49.15	169.11	0.00	660524.69	550373.05	
2600.00	5.19	163.10	2592.11	-170.46	51.78	178.15	0.00	660516.04	550375.68	
2700.00	5.19	163.10	2691.70	-179.11	54.41	187.19	0.00	660507.39	550378.31	
2800.00	5.19	163.10	2791.29	-187.76	57.04	196.24	0.00	660498.74	550380.94	
2900.00	5.19	163.10	2890.88	-196.41	59.67	205.28	0.00	660490.09	550383.57	
3000.00	5.19	163.10	2990.47	-205.07	62.29	214.32	0.00	660481.43	550386.19	
3100.00	5.19	163.10	3090.06	-213.72	64.92	223.36	0.00	660472.78	550388.82	
3200.00	5.19	163.10	3189.65	-222.37	67.55	232.40	0.00	660464.13	550391.45	
3300.00	5.19	163.10	3289.24	-231.02	70.18	241.44	0.00	660455.48	550394.08	
3400.00	5.19	163.10	3388.83	-239.67	72.81	250.48	0.00	660446.83	550396.71	
3500.00	5.19	163.10	3488.42	-248.32	75.43	259.53	0.00	660438.18	550399.33	
3600.00	5.19	163.10	3588.01	-256.97	78.06	268.57	0.00	660429.53	550401.96	
3700.00	5.19	163.10	3687.60	-265.62	80.69	277.61	0.00	660420.88	550404.59	
3800.00	5.19	163.10	3787.19	-274.27	83.32	286.65	0.00	660412.23	550407.22	
3900.00	5.19	163.10	3886.78	-282.93	85.95	295.69	0.00	660403.57	550409.85	
4000.00	5.19	163.10	3986.37	-291.58	88.57	304.73	0.00	660394.92	550412.47	
4100.00	5.19	163.10	4085.96	-300.23	91.20	313.77	0.00	660386.27	550415.10	
4200.00	5.19	163.10	4185.55	-308.88	93.83	322.82	0.00	660377.62	550417.73	
4300.00	5.19	163.10	4285.14	-317.53	96.46	331.86	0.00	660368.97	550420.36	
4400.00	5.19	163.10	4384.73	-326.18	99.09	340.90	0.00	660360.32	550422.99	
4500.00	5.19	163.10	4484.33	-334.83	101.71	349.94	0.00	660351.67	550425.61	
4600.00	5.19	163.10	4583.92	-343.48	104.34	358.98	0.00	660343.02	550428.24	
4700.00	5.19	163.10	4683.51	-352.13	106.97	368.02	0.00	660334.37	550430.87	
4800.00	5.19	163.10	4783.10	-360.78	109.60	377.06	0.00	660325.72	550433.50	
4900.00	5.19	163.10	4882.69	-369.44	112.23	386.11	0.00	660317.06	550436.13	
5000.00	5.19	163.10	4982.28	-378.09	114.85	395.15	0.00	660308.41	550438.75	
5100.00	5.19	163.10	5081.87	-386.74	117.48	404.19	0.00	660299.76	550441.38	
5200.00	5.19	163.10	5181.46	-395.39	120.11	413.23	0.00	660291.11	550444.01	
5218.62	5.19	163.10	5200.00	-397.00	120.60	414.91	0.00	660289.50	550444.50	PBHL

Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL	-Plan hit target	5200.00	-397.00	120.60	660289.50	550444.50	32 48 54.418 N	104 10 8.894 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
400.00	400.00	0.000	0.000	Csg



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



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co. NM (Nad 27)
Site: ROO 22 State 1
Well: ROO 22 State 1
Wellpath: 1

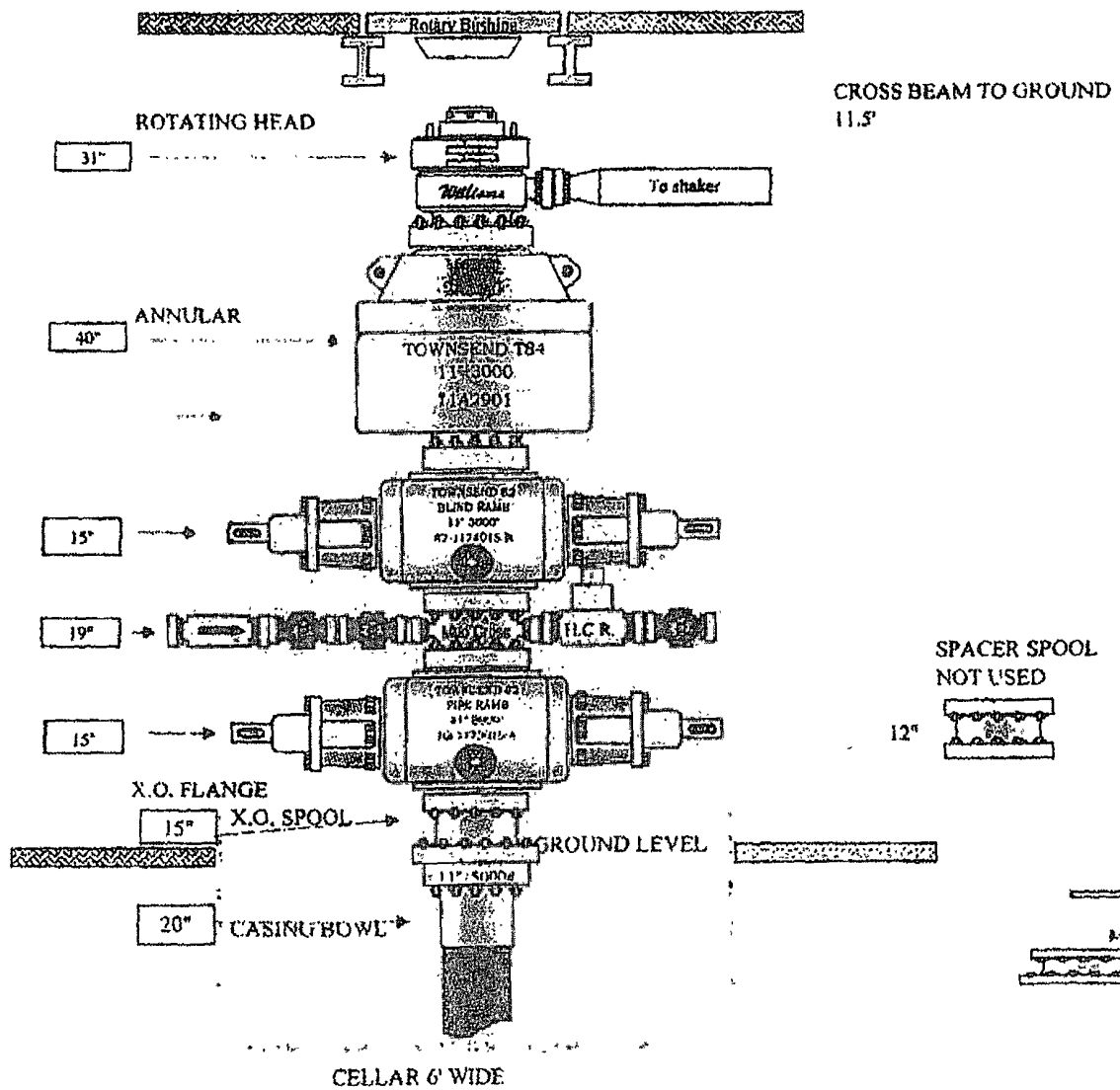
Date: 10/6/2011 Time: 10:44:54 Page: 3
Co-ordinate(NE) Reference: Well: ROO 22 State 1, Grid North
Vertical (TVD) Reference: SITE 3620.4
Section (VS) Reference: Well (0.00N,0.00E,163.10Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

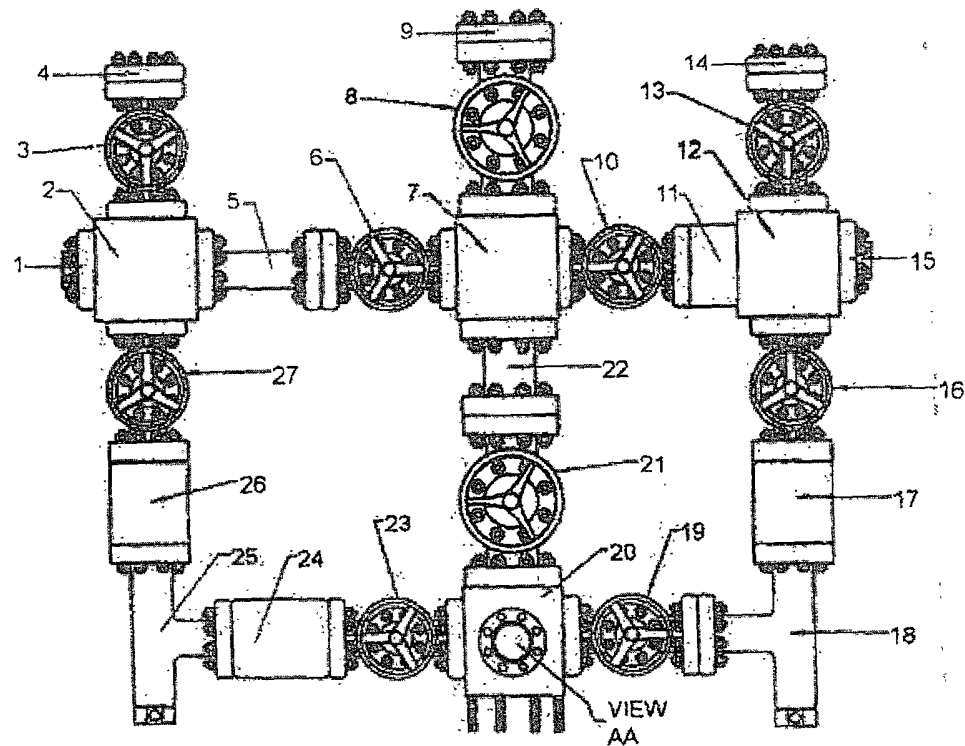
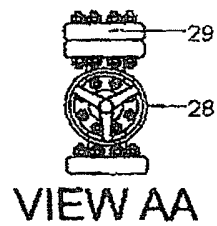
MD ft	TVD ft	
500.00	500.00	KOP
759.37	759.02	LP
5218.61	5199.99	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



RIG #



Scale:	N.T.S	Date:		Description: 3-1/8" x 2-1/16" 3000# NACE TRIM SINGLE GUT CHOKE & KILL MANIFOLD SYSTEM	 PACIFIC VALVE SERVICES INC
Drawn by:	RAVI MANI	DWG#			
Checked by:		REV	00		