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DISTRICT II
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Phone: (505) 748-1283 Fax: (505) 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

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

RECEIVED

SEP 20 2013

CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

COCD ARTESIA

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-41705	Pool Code 966610	Pool Name Empire; Glorieta-Peso, East
Property Code 309604	Property Name TIGGER 9 STATE	Well Number 19
OGRID No. 192463	Operator Name OXY U.S.A. WTPLP	Elevation 3576'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	17-S	29-E		620	SOUTH	2525	WEST	EDDY

Bottom Hole Location If Different From Surface

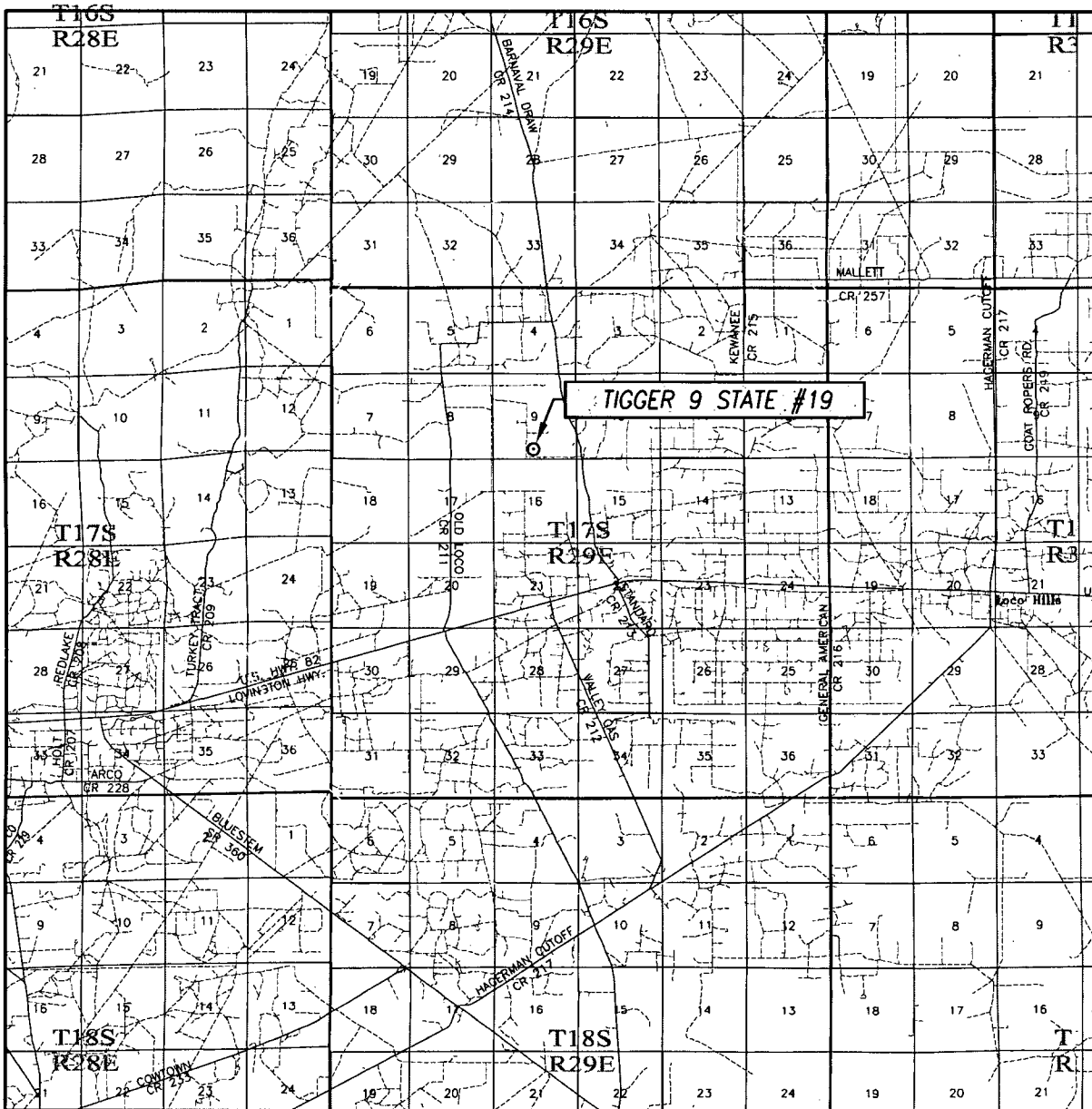
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	9	17-S	29-E		440	SOUTH	1726	EAST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=670643.9 N X=577911.0 E LAT.=32.843428° N LONG.=104.079654° W BOTTOM HOLE LOCATION Y=670469.6 N X=578915.7 E LAT.=32.842942° N LONG.=104.076384° W	CORNER COORDINATES TABLE A - Y=617337.6 N, X=576698.1 E B - Y=671345.3 N, X=578010.0 E C - Y=671352.9 N, X=579324.9 E D - Y=670032.0 N, X=579328.6 E E - Y=670024.6 N, X=578013.6 E F - Y=670017.5 N, X=576700.0 E	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Jennifer Duarte</i> Date: 9/19/13 Printed Name: Jennifer Duarte E-mail Address: jennifer-duarte@oxy.com
		SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 15, 2013 Date of Survey: May 15, 2013 Signature & Seal of Professional Surveyor: <i>Ronald J. Eidson</i> Professional Surveyor: Ronald J. Eidson Certificate Number: 3239 ACK JWSC W.O.: 13.11.0503

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 9 TWP. 17-S RGE. 29-E

SURVEY N.M.P.M.

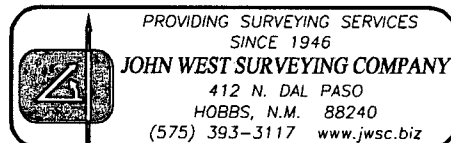
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 620' FSL & 2525' FWL

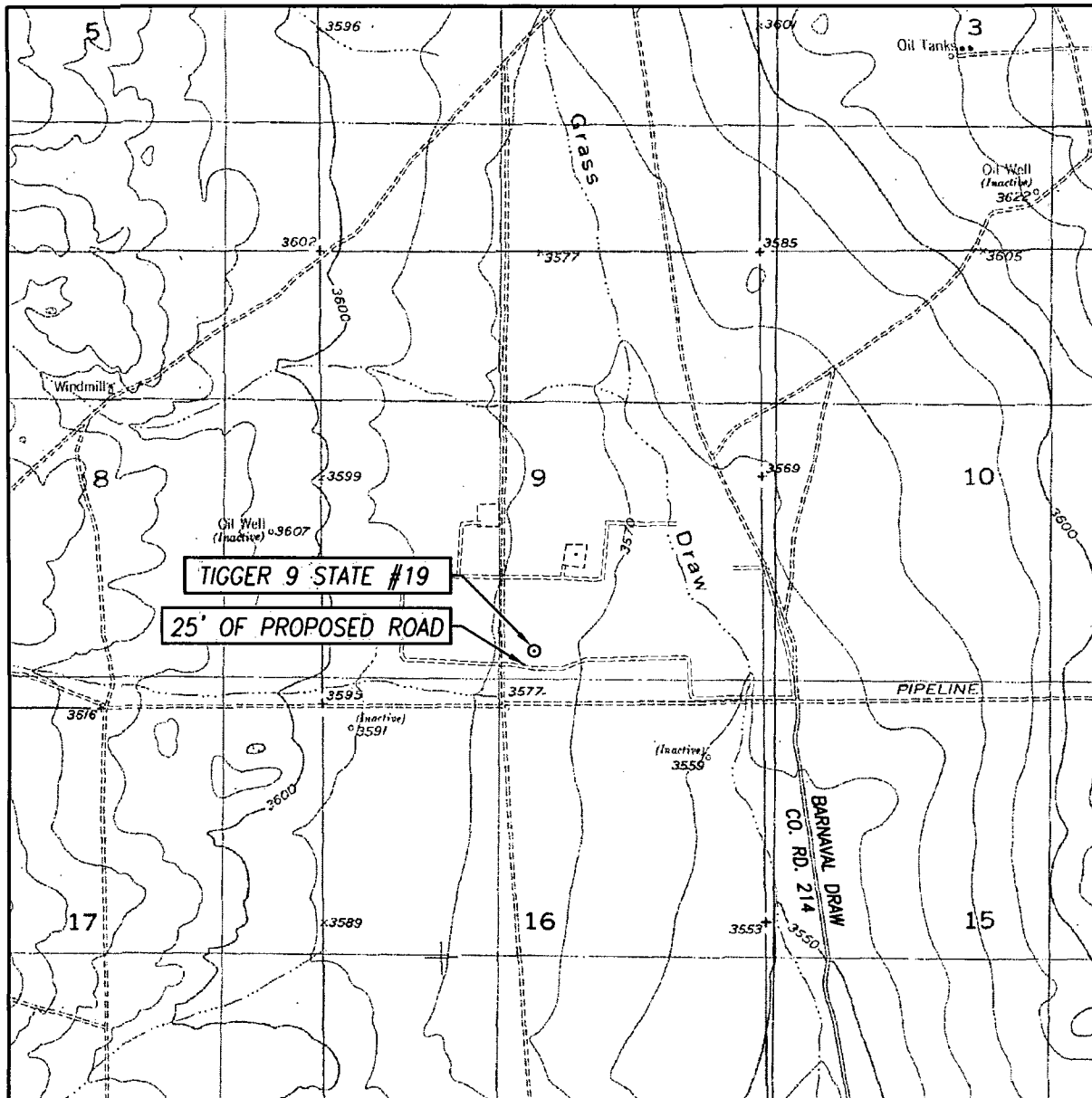
ELEVATION 3576'

OPERATOR OXY U.S.A. WTP LP

LEASE TIGGER 9 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
RED LAKE SE, N.M. - 10'

SEC. 9 TWP. 17-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

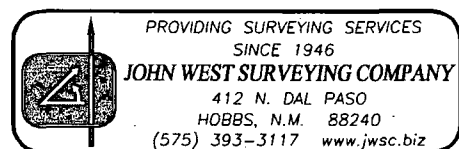
DESCRIPTION 620' FSL & 2525' FWL

ELEVATION 3576'

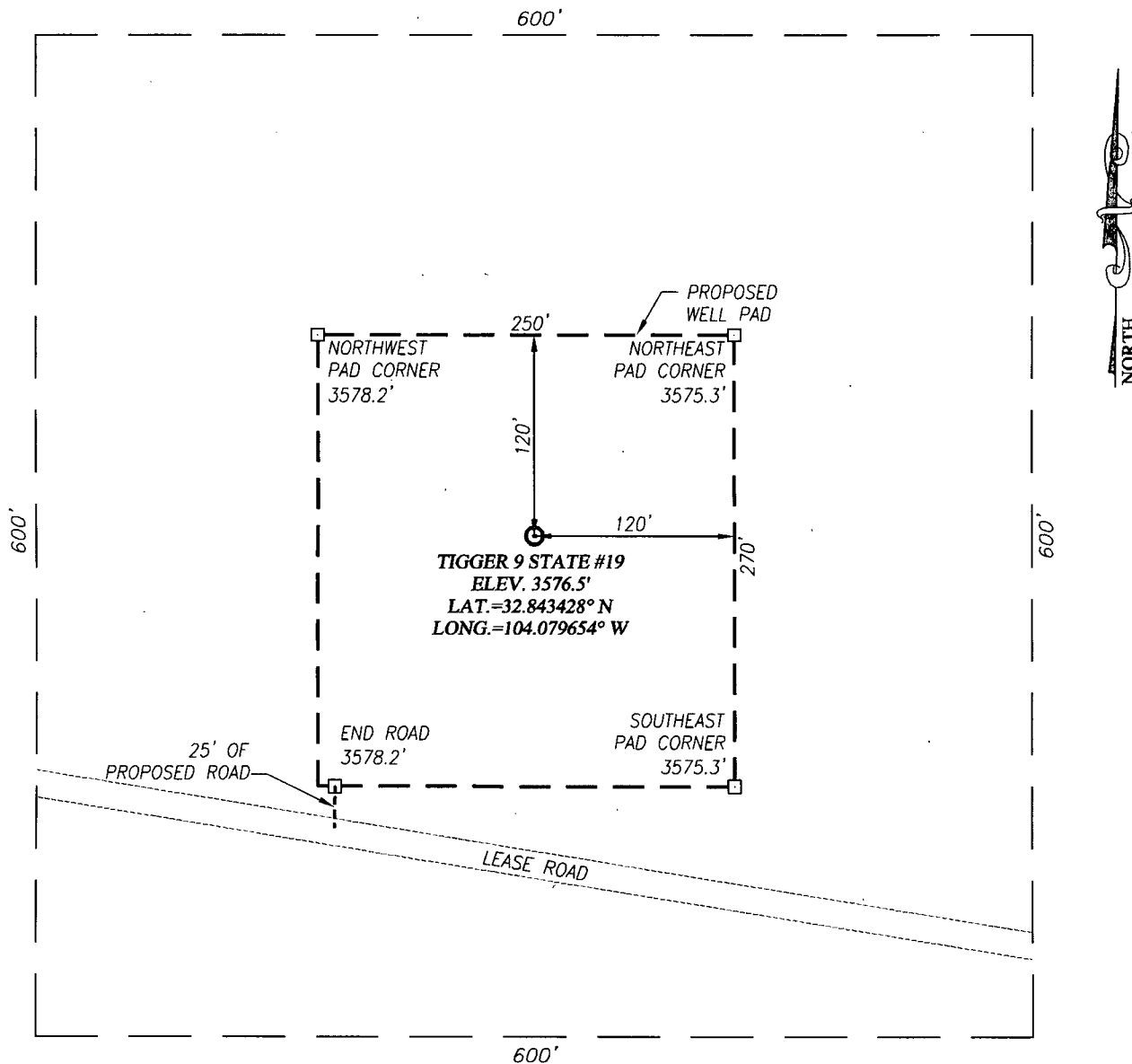
OPERATOR OXY U.S.A. WPP LP

LEASE TIGGER 9 STATE

U.S.G.S. TOPOGRAPHIC MAP
RED LAKE SE, N.M.

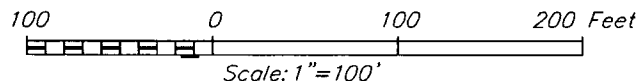


SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY **NEW MEXICO**



DIRECTIONS TO TIGGER 9 STATE #19:

FROM THE INTERSECTION OF U.S. HIGHWAY 82 & CO. RD. 214
(BARNAVAL DRAW RD.) GO NORTH ON CO. RD. 214 APPROX. 1.5
MILES. TURN LEFT AND GO WEST APPROX. 0.2 MILES; TURN RIGHT
AND GO NORTH APPROX. 0.1 MILES; TURN LEFT AND GO WEST
APPROX. 0.4 MILES TO ROAD SURVEY. FOLLOW NORTH 25 FEET
TO THE LOCATION.



OXY U.S.A. WTP LP

**TIGGER 9 STATE #19 WELL
LOCATED 620 FEET FROM THE SOUTH LINE
AND 2525 FEET FROM THE WEST LINE OF SECTION 9,
TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO**



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz

Survey Date: 5/15/13		CAD Date: 6/10/13	Drawn By: ACK
W.O. No.: 13110503	Rev: .	Rel. W.O.:	Sheet 1 of 1

OXY USA WTP LP
APD Data

OPERATOR NAME / NUMBER: OXY USA WTP LP

192463

LEASE NAME / NUMBER: Tigger 9 State # 19

Federal Lease No:

STATE: NM

COUNTY: Eddy

SURFACE HOLE LOCATION:

620' FSL & 2525' FWL, Sec 9, T17S, R29E

BOTTOM HOLE LOCATION:

440' FSL & 1726' FEL, Sec 9, T17S, R29E

APPROX GR ELEV: 3576'

EST KB ELEV: 3590' (14' KB-GL)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

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

Formation Name	TVD	Expected Fluids
Rustler	310	Fresh Water
Salado (Salt)	340	-
Yates	882	-
Queen	1736	-
Grayburg	2165	Oil
San Andres	2438	Oil/Water
Glorietta	3887	Oil
Paddock	3951	Oil
Blinberry	4351	Oil
Tubbs	5300	Oil
TD	5500	TD

A. Fresh Water formation is outcropping and will be covered with the 16" conductor pipe, which will be set at 120' prior to spud.

GREATEST PROJECTED TD: 5644' MD / 5500' TVD

OBJECTIVE: Yeso

3. CASING PROGRAM

Surface Casing set at $\pm 400'$ MD/ $400'$ TVD in a 11" hole filled with 8.8 ppg mud

Interval (MD)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Jt Str (M-lbs)	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
0' - 400'	8.625	24	J55	STC	8.097	New	244	2950	1370	1.42	10.42	2.26

Production Casing set at $\pm 5644'$ MD / $5500'$ TVD in a 7.875" hole filled 9.6 ppg mud

Interval (MD)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Jt Str (M-lbs)	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
0' - 5,644'	5.5	17	L80	BTC	4.892	New	428	7740	6290	1.28	2.20	2.22

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the surface CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the surface CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Production)

- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC: 0' – 400')							
Lead: 0' – 400' (125% Excess)	190	400	Premium Plus Cement: 1% Calcium Chloride – Flake	6.36	14.8	1.34	1608 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (TOC: 0' – 5644')							
Lead: 0' – 3000' (100 % Excess)	400	3000	Interfill C: 0.25 lbm/sk D-AIR 5000	13.88	11.9	2.43	281 psi
Tail: 3000' - 5644' (100 % Excess)	600	2644	Premium Plus Cement: 0.5% Halad ®-344, 0.2% WellLife 734; 5 lbm/sk Microbond, 0.3% Econolite, 0.3% CFR-3	7.72	14.2	1.55	1413 psi

Description of Cement Additives: Calcium Chloride – Flake (Accelerator), D-AIR 5000 (Defoamer), Halad ®-344 (Low Fluid Loss Control), WellLife 734 (Cement Enhancer), Microbond (Expander), Econolite (Light Weight Additive), CFR-3 (Dispersant)

The volumes indicated above may be revised depending on if a caliper measurement.

5. DIRECTIONAL PLAN

See directional plan attached.

6. PRESSURE CONTROL EQUIPMENT

Surface: 0' – 400' None.

Production: 400' MD/TVD – 5644' MD / 5500' TVD The minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi. Operator will be using an 11" 3M two ram stack with 3M annular preventer, & 3M Choke Manifold.

- a. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 8 5/8" surface casing and the 8 5/8" SOW x 11" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.
- b. The BOP and ancillary BOPE will be tested by a third party after setting surface casing. All equipment will be tested to 250/3000 psi for 5 minutes and charted, except the annular, which will be tested to 70% of working pressure.
- c. The BOPE test will be repeated within 21 days of the original test, on the first trip
- d. Other accessory BOP equipment will include a floor safety valve, choke lines, and choke manifold having a 3000 psi working pressure rating and tested to 3000 psi.
- e. The Operator also requests a variance to connect the BOP choke outlet to the choke manifold using a 3" co-flex hose with a working pressure of 3000 psi.
- f. BOP & Choke manifold diagrams attached.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0' – 400'	8.4 – 8.8	27 – 28	NC	Fresh Water / Spud Mud
400' – TD	9.2 – 9.6	28 – 29	NC	Brine Water / Salt Gel / Sweeps

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. 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 full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

9. POTENTIAL HAZARDS:

- a. Hydrogen Sulfide 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. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.5 psi/ft**. Maximum anticipated bottom hole pressure is **2750 psi**.
- c. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after the **NMOCD** has approved the APD. Anticipated spud date will be as soon as possible after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 15 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.

11. WIRELINE LOGGING / MUD LOGGING / LWD

- a. NO open hole wireline logging
- b. Mud logging: None

COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Kacie Cruz	Drilling Engineer	(713)350-4889	(281) 433-6594
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832) 528-3268
Roger Allen	Drilling Superintendent	(713)215-7617	(281) 682-3919
Oscar Quintero	Drilling Manager	(713)985-6343	(713) 689-4946



Weatherford[®]

Drilling Services

Proposal



OCCIDENTAL PERMIAN LTD.

TIGGER 9 STATE #19

EDDY CO., NEW MEXICO

WELL FILE: PLAN 1

SEPTEMBER 13, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



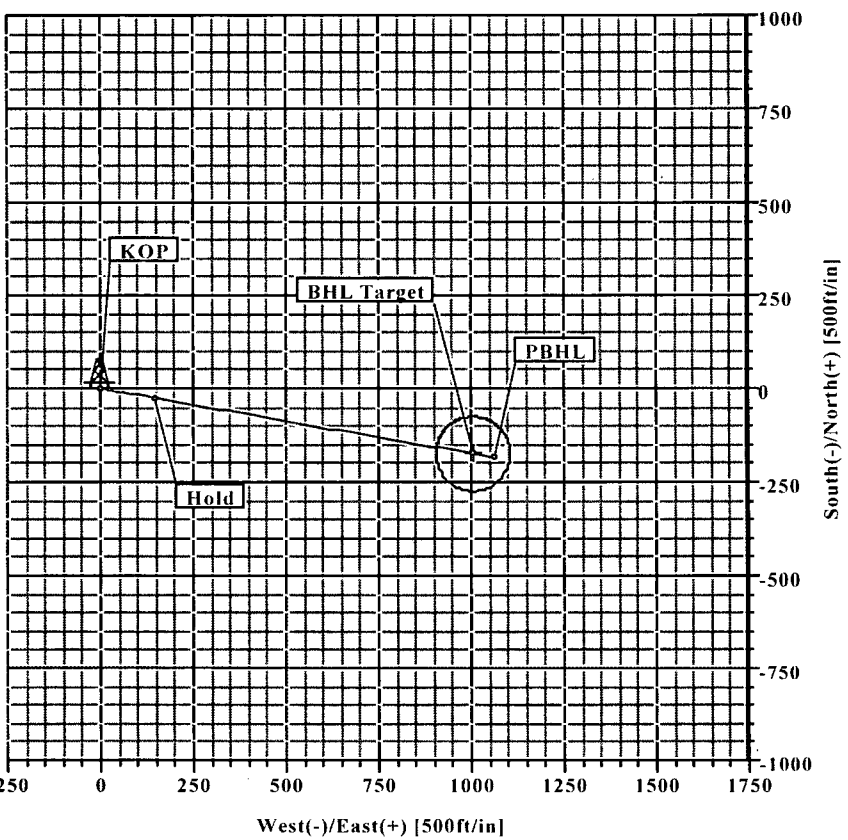
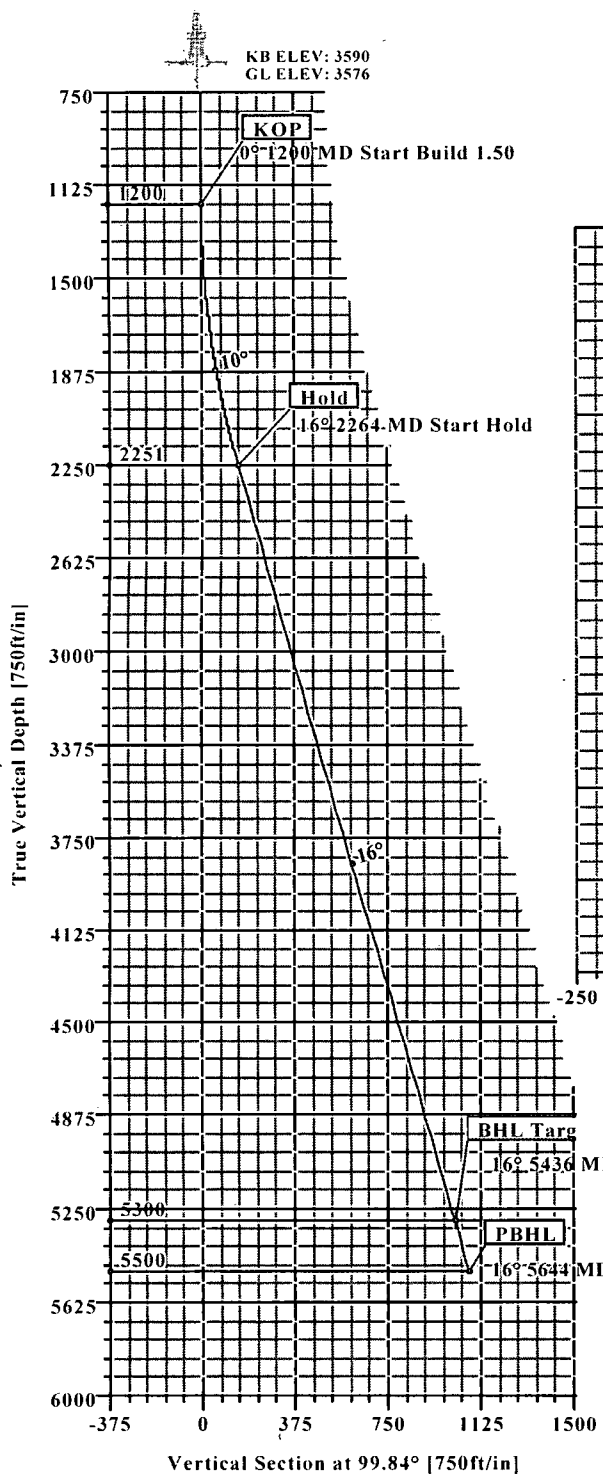
Oxy Tigger 9 State #19 Eddy Co., New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	99.84	0.00	0.00	0.00	0.00	0.00	0.00	
2	1200.00	0.00	99.84	1200.00	0.00	0.00	0.00	0.00	0.00	
3	2264.33	15.96	99.84	2250.61	-25.18	145.16	1.50	99.84	147.33	
4	5436.05	15.96	99.84	5300.00	-174.30	1004.70	0.00	0.00	1019.71	BHL Target
5	5644.08	15.96	99.84	5500.00	-184.08	1061.07	0.00	0.00	1076.92	

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Tigger 9 State #19	0.00	0.00	670643.90	577911.00	32°50'36.341N	104°04'46.755W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL Target	5300.00	-174.30	1004.70	670469.60	578915.70	Circle (Radius: 100)

SITE DETAILS	
Tigger 9 State #19	
Site Centre Northing:	670643.90
Easting:	577911.00
Ground Level:	3576.00
Positional Uncertainty:	0.00
Convergence:	0.14





Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 9/13/2013 Time: 13:37:07 Page: 1
 Field: Eddy Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: Tigger 9 State #19, Grid North
 Site: Tigger 9 State #19 Vertical (TVD) Reference: SITE 3590.0
 Well: Tigger 9 State #19 Section (VS) Reference: Well (0.00N, 0.00E, 99.84Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 9/13/2013
 Principal: Yes Version: 1
 Tied-to: From Surface

Site: Tigger 9 State #19
 Site Position: Northing: 670643.90 ft Latitude: 32 50 36.341 N
 From: Map Easting: 577911.00 ft Longitude: 104 4 46.755 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3576.00 ft Grid Convergence: 0.14 deg

Well: Tigger 9 State #19 Slot Name:
 Well Position: +N/-S 0.00 ft Northing: 670643.90 ft Latitude: 32 50 36.341 N
 +E/-W 0.00 ft Easting: 577911.00 ft Longitude: 104 4 46.755 W
 Position Uncertainty: 0.00 ft

Wellpath: 1
 Current Datum: SITE Height 3590.00 ft
 Magnetic Data: 5/1/2014
 Field Strength: 48670 nT
 Vertical Section: Depth From (TVD) +N/-S
 ft ft
 5300.00 0.00 0.00 99.84

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	99.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	99.84	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2264.33	15.96	99.84	2250.61	-25.18	145.16	1.50	1.50	0.00	99.84	
5436.05	15.96	99.84	5300.00	-174.30	1004.70	0.00	0.00	0.00	0.00	BHL Target
5644.08	15.96	99.84	5500.00	-184.08	1061.07	0.00	0.00	0.00	0.00	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
1200.00	0.00	99.84	1200.00	0.00	0.00	0.00	0.00	670643.90	577911.00	KOP
1300.00	1.50	99.84	1299.99	-0.22	1.29	1.31	1.50	670643.68	577912.29	
1400.00	3.00	99.84	1399.91	-0.89	5.16	5.23	1.50	670643.01	577916.16	
1500.00	4.50	99.84	1499.69	-2.01	11.60	11.77	1.50	670641.89	577922.60	
1600.00	6.00	99.84	1599.27	-3.58	20.62	20.92	1.50	670640.32	577931.62	
1700.00	7.50	99.84	1698.57	-5.59	32.20	32.68	1.50	670638.31	577943.20	
1800.00	9.00	99.84	1797.54	-8.04	46.33	47.03	1.50	670635.86	577957.33	
1900.00	10.50	99.84	1896.09	-10.93	63.02	63.96	1.50	670632.97	577974.02	
2000.00	12.00	99.84	1994.16	-14.27	82.24	83.47	1.50	670629.63	577993.24	
2100.00	13.50	99.84	2091.70	-18.04	103.99	105.54	1.50	670625.86	578014.99	
2200.00	15.00	99.84	2188.62	-22.25	128.24	130.15	1.50	670621.65	578039.24	
2264.33	15.96	99.84	2250.61	-25.18	145.16	147.33	1.50	670618.72	578056.16	Hold
2300.00	15.96	99.84	2284.91	-26.86	154.82	157.14	0.00	670617.04	578065.82	
2400.00	15.96	99.84	2381.05	-31.56	181.92	184.64	0.00	670612.34	578092.92	
2500.00	15.96	99.84	2477.19	-36.26	209.02	212.15	0.00	670607.64	578120.02	
2600.00	15.96	99.84	2573.33	-40.96	236.12	239.65	0.00	670602.94	578147.12	
2700.00	15.96	99.84	2669.48	-45.67	263.23	267.16	0.00	670598.23	578174.23	
2800.00	15.96	99.84	2765.62	-50.37	290.33	294.66	0.00	670593.53	578201.33	
2900.00	15.96	99.84	2861.76	-55.07	317.43	322.17	0.00	670588.83	578228.43	
3000.00	15.96	99.84	2957.91	-59.77	344.53	349.67	0.00	670584.13	578255.53	
3100.00	15.96	99.84	3054.05	-64.47	371.63	377.18	0.00	670579.43	578282.63	
3200.00	15.96	99.84	3150.19	-69.17	398.73	404.68	0.00	670574.73	578309.73	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Eddy Co, NM (Nad 27)
Site: Tigger 9 State #19
Well: Tigger 9 State #19
Wellpath: 1

Date: 9/13/2013 Time: 13:37:07 Page: 2
Co-ordinate(NE) Reference: Well: Tigger 9 State #19, Grid North
Vertical (TVD) Reference: SITE 3590.0
Section (VS) Reference: Well (0.00N,0.00E,99.84Azi)
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
3300.00	15.96	99.84	3246.34	-73.87	425.83	432.19	0.00	670570.03	578336.83	
3400.00	15.96	99.84	3342.48	-78.58	452.93	459.69	0.00	670565.32	578363.93	
3500.00	15.96	99.84	3438.62	-83.28	480.03	487.20	0.00	670560.62	578391.03	
3600.00	15.96	99.84	3534.76	-87.98	507.13	514.70	0.00	670555.92	578418.13	
3700.00	15.96	99.84	3630.91	-92.68	534.23	542.21	0.00	670551.22	578445.23	
3800.00	15.96	99.84	3727.05	-97.38	561.33	569.71	0.00	670546.52	578472.33	
3900.00	15.96	99.84	3823.19	-102.08	588.43	597.22	0.00	670541.82	578499.43	
4000.00	15.96	99.84	3919.34	-106.78	615.53	624.72	0.00	670537.12	578526.53	
4100.00	15.96	99.84	4015.48	-111.49	642.63	652.23	0.00	670532.41	578553.63	
4200.00	15.96	99.84	4111.62	-116.19	669.73	679.73	0.00	670527.71	578580.73	
4300.00	15.96	99.84	4207.77	-120.89	696.83	707.24	0.00	670523.01	578607.83	
4400.00	15.96	99.84	4303.91	-125.59	723.93	734.74	0.00	670518.31	578634.93	
4500.00	15.96	99.84	4400.05	-130.29	751.03	762.25	0.00	670513.61	578662.03	
4600.00	15.96	99.84	4496.19	-134.99	778.13	789.75	0.00	670508.91	578689.13	
4700.00	15.96	99.84	4592.34	-139.69	805.23	817.26	0.00	670504.21	578716.23	
4800.00	15.96	99.84	4688.48	-144.40	832.33	844.76	0.00	670499.50	578743.33	
4900.00	15.96	99.84	4784.62	-149.10	859.43	872.27	0.00	670494.80	578770.43	
5000.00	15.96	99.84	4880.77	-153.80	886.53	899.77	0.00	670490.10	578797.53	
5100.00	15.96	99.84	4976.91	-158.50	913.63	927.28	0.00	670485.40	578824.63	
5200.00	15.96	99.84	5073.05	-163.20	940.73	954.78	0.00	670480.70	578851.73	
5300.00	15.96	99.84	5169.20	-167.90	967.83	982.29	0.00	670476.00	578878.83	
5400.00	15.96	99.84	5265.34	-172.61	994.93	1009.79	0.00	670471.29	578905.93	
5436.05	15.96	99.84	5300.00	-174.30	1004.70	1019.71	0.00	670469.60	578915.70	BHL Target
5500.00	15.96	99.84	5361.48	-177.31	1022.03	1037.30	0.00	670466.59	578933.03	
5600.00	15.96	99.84	5457.62	-182.01	1049.13	1064.80	0.00	670461.89	578960.13	
5644.08	15.96	99.84	5500.00	-184.08	1061.07	1076.92	0.00	670459.82	578972.07	PBHL

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
BHL Target	-Circle (Radius: 100)		5300.00	-174.30	1004.70	670469.60	578915.70	32 50 34.593 N	104 4 34.983 W
	-Plan hit target								

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
1200.00	1200.00	KOP
2264.33	2250.61	Hold
5436.05	5300.00	BHL Target
5644.07	5499.99	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: September 13, 2013
Job Number: _____
Customer: Occidental Permian Ltd.
Well Name: Tigger 9 State #19
API Number: _____
Rig Name: _____
Location: Eddy County, NM(Nad 27)
Block: _____
Engineer: Patrick Rudolph

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 670643.900 USFT	Latitude 32.8434281 DEG
East/West 577911.000 USFT	Longitude -104.0796540 DEG
Grid Convergence: 14°	
Total Correction: +7.50°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.84343° N	32° 50 min 36.341 sec
Longitude =	104.07965° W	104° 4 min 46.755 sec

Magnetic Declination =	7.64°	[True North Offset]
Local Gravity =	.9989 g	Checksum = 6666
Local Field Strength =	48643 nT	Magnetic Vector X = 23677 nT
Magnetic Dip =	60.59°	Magnetic Vector Y = 3177 nT
Magnetic Model =	bggm2013	Magnetic Vector Z = 42373 nT
Spud Date =	May 01, 2014	Magnetic Vector H = 23889 nT

Signed: _____

Date: _____