DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax (575) 393-0720 DISTRICT II 811 S. Frist St., Arresia, 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., Sama 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, New Mexico 87505

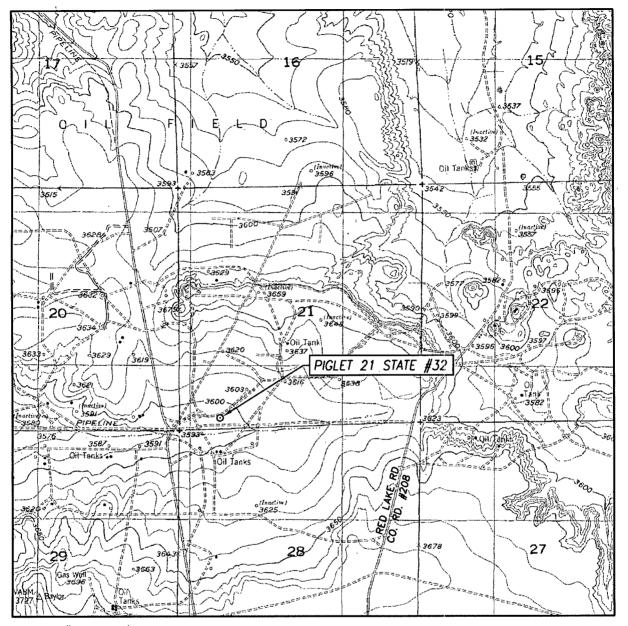
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | VV 1.5.1 | | 1101171 | | TOE DEDICA | 2110111274 | | |
|-----------------|---------------------------------|---|-----------------|-------------------|----------------------------|--|----------------------------|---|---|
| 30-019 | 1 Number | 207 | 96 | Pool Code 2830 | O A | Jesia; | Gloria Gloria | 270x - 40 | esc) |
| 309 G | 02 | · | | P | Property Nam [GLET 21 S | | | We | li Number 32 |
| 1924 | Operator Name OXY U.S.A. WTP LP | | | | | | | 1 | levation 3598' |
| | <i>w</i> | | | | Surface Locati | ion | | | |
| UL or lot No. | Section | Township | Range | Eot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| M | 21 | 17-S | 28-E | | 243 | SOUTH | 875 | WEST | EDDY |
| | | | | Bottom Hole | e Location If Diffe | erent From Surface | | | |
| UL or lot No. | Section | Township | Range | Lot ldn | Feet from the | North/South line | Feet from the | East/West line | County |
| Dedicated Acres | Joint or | Infill C | Consolidation C | ode Ord | er No. | <u></u> | | | |
| -10 | | | | | | | | | |
| NO ALLOWABLE WI | LL BE ASSIGN | NED TO THIS C | OMPLETION UN | TIL ALL INTE | RESTS HAVE BEEN C | CONSOLIDATED OR A N | ION-STANDARD UNI | T HAS BEEN APPROVE | D BY THE DIVISION |
| | | | | | | Section of the sectio | 1 1 | ATOR CERTIFIC | 1 |
| | | | | | | | complete to | the best of my knowledge anization either owns a wo | and belief, and |
| | 1 | | | | . | | unleased mi | neral interest in the land in ottom hole location or has : | cluding the |
| | ! | | | | ! | | of such min | location pursuant to a conti eral or working interest, or | to a voluntary |
| | | | | | | | | cement or a compulsory po entered by the division. | ooling order |
| | | | | | COORDINATES 27 NME | | Ma | Attak | 35/13 |
| · | 1 | | | | LOCATION 0504.0 N | | Signature | no fect | Date) |
| | . | • | | | 5298.3 E | | Printed Na | aine | 0 |
| | <u> </u> | | | | 812978" N 4.185892" W | | A-mail Ac | idress | COM |
| | | | - | | | | SURV | 'EYOR CERTIFIC | CATION |
| | ; | | | 1 | | | was plotted me or under | tify that the well location s from field notes of actual s my supervision, and that to to the best of my belief. | surveys made by |
| | 1 | | | | | | | JANUARY 25, 2 | 2013 |
| | | | | | | | Date of Su Signature & | | Surveyor: |
| | | - | | 1 | | | Signature | ME A CO | A STANDARD OF THE STANDARD OF |
| | ļ | | | | | | RE | 12641 | YOR |
| 875' | 9 217 | | | į į | | | Certificate | Y Wumber Gan G Ronald | Ejdson 12641 Eidson 3239 |
| L | -243' | *************************************** | | 1 | | | ACR III | IIII POFESSION INS | C W.O.: 13.11.0139 |

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

SEC. 21 TWP. 17-S RGE. 28-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 243' FSL & 875' FWL

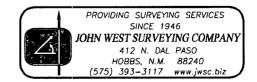
ELEVATION 3598'

OPERATOR OXY U.S.A. WTP LP

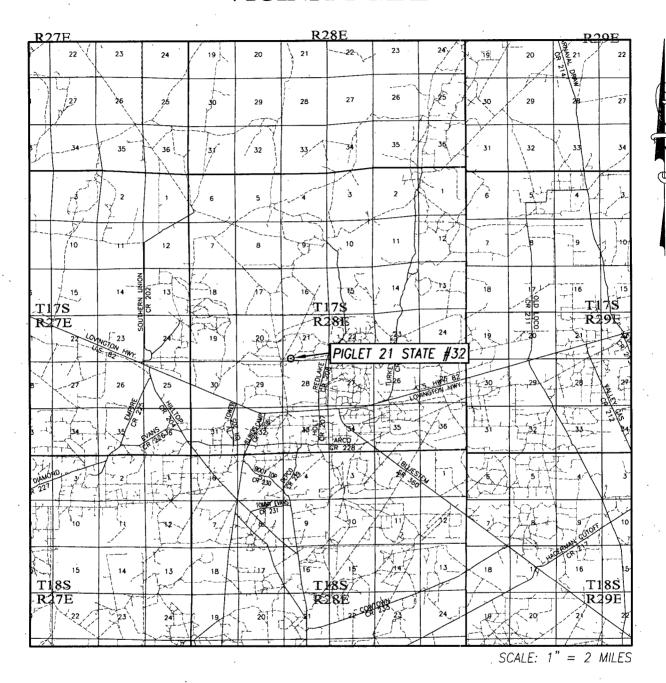
LEASE PIGLET 21 STATE

U.S.G.S. TOPOGRAPHIC MAP

RED LAKE, N.M.



VICINITY MAP



SEC. 21 TWP. 17-S RGE. 28-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 243' FSL & 875' FWL

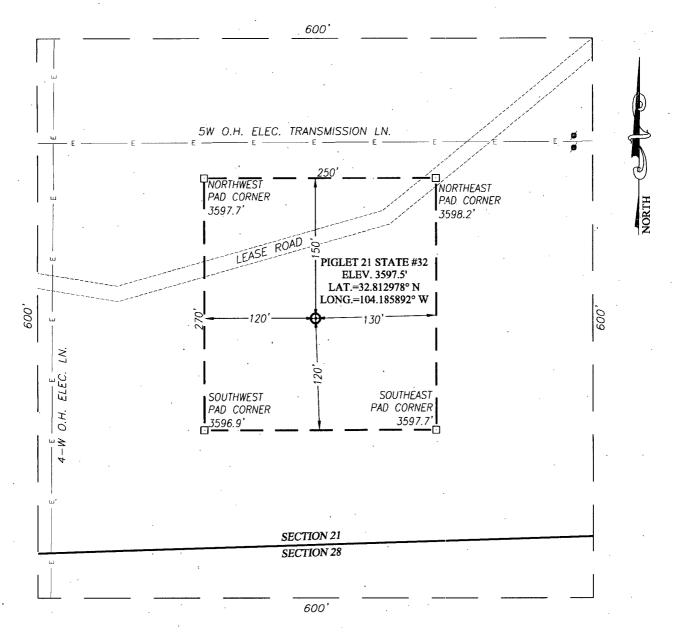
ELEVATION 3598'

OPERATOR OXY U.S.A. WTP LP

LEASE PIGLET 21 STATE



SECTION 21, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY NEW MEXICO

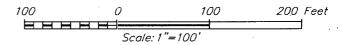


DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. 82 AND CO. RD. #208, GO WEST ON U.S. HWY. 82 APPROX. 0.8 MILES. TURN RIGHT AND GO NORTH APPROX. 1.1 MILE. VEER RIGHT AND GO NORTHEAST APPROX. 0.1 MILE. VEER RIGHT GO EAST—NORTHEAST APPROX. 0.2 MILES. THIS LOCATION IS SOUTH APPROX. 80 FEET.

PROVIDING SURVEYING SERVICES

SINCE 1946



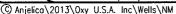
OXY U.S.A. WTP LP

PIGLET 21 STATE #32 WELL LOCATED 243 FEET FROM THE SOUTH LINE AND 875 FEET FROM THE WEST LINE OF SECTION 21, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz

W.O. No.: 13110139 Rev: . Rel. W.O.: Sheet 1 of



APD DATA - DRILLING PLAN -

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: Piglet 21 State 32

STATE: NM

COUNTY: Eddy

SURFACE LOCATION: 243' FSL & 875' FWL, Sec 21, T 17S, R 28E

C-102 PLAT APPROX GR ELEV: 3598'

EST KB ELEV: 3612' (14' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

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

| Formation | TV Depth Top | Expected Fluids |
|---------------------|--------------|------------------------|
| Rustler | Surface | Fresh Water |
| | Outcropping | |
| Yates | 410 | |
| Seven Rivers | 604 | - |
| Queen | 1170 | - |
| Grayburg | 1640 | Oil |
| San Andres | 1749 | Oil/Water |
| Glorietta | 3350 | Oil |
| Paddock | 3440 | Oil |
| Blinebry | 3900 | Oil |
| Tubb – Base of Yeso | 4820 | Oil |
| TD | 5100 | TD |

- A. Based on the State Engineer Website, there no known nearby water wells drilled in the area.
- B. The 16" conductor pipe will be set at 80' prior to spud.

GREATEST PROJECTED TD 5100' MD / 5100' TVD

OBJECTIVE: Yeso

3. CASING PROGRAM

Surface Casing: 8.625" casing set at ± 400 ' MD/ 400' TVD in a 11" hole filled with 8.4 ppg mud

| | Interval | Length | Wt | Gr | Condition | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|---|----------|--------|----|------|-----------|------|-------------------------|--------------------------|-------------------|------------|---------------|------------|-------------|-----------|
| Ĺ | 0'- 400' | 400' | 24 | J-55 | New | ST&C | 1370 | 2950 | 381 | 8.097 | 7.972 | 10.17 | 1.72 | 45.54 |

Production Casing: 5.5" casing set at \pm 5100'MD / 5100'TVD in a 7.875" hole filled 9.6 ppg mud

| Interval | Length | Wt | Gr | Condition | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|--------------|--------|----|------|-----------|------|-------------------------|--------------------------|-------------------|------------|---------------|------------|-------------|-----------|
| 0'- 5100' | 5100' | 17 | L-80 | New | LT&C | 6290 | 7740 | 338 | 4.892 | 4.767 | 2.47 | 3.80 | 4.57 |

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

4. CEMENT PROGRAM:

Surface Interval

| Interval | Amount sx | Ft of Fill | Туре | 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 | Туре | Gal/Sk | PPG | Ft ³ /sk | 24 Hr Comp |
|---|----------------|------------|--|--------|------|---------------------|---------------|
| Production (To | OC: 0' - 5100' |) | | | | | |
| Lead: 0' - 3200' (98 % Excess) | 420 | 3200' | Interfill C: 0.4% HR-800, 0.25% D-AIR 5000 | 14.34 | 11.9 | 2.48 | 327 psi |
| Tail: 3200' - 5100' (98 % Excess) | 440 | 1900' | 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 | 1914 psi |

Description of Cement Additives: Calcium Chloride – Flake (Accelerator), HR-800 (Retarder), D-Air 5000 (Defoamer), Halad ®-344 (Low Fluid Loss Control), WellLife 734 (Cement Enhancer), Microbond (Expander), Econolite (Light Weight Additive), CFR-3 (Dispersant)

If a caliper log is run, cement volumes will be adjusted to caliper volume + 35% excess for the production hole.

5. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 400' None.

Production: 0 - 5100' 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 upon installation to the 8 5/8" surface casing. All equipment will be tested to 250/3000 psi for 10 minutes and charted, except the annular, which will be tested to 70% of working pressure. This is to be in compliance with the Onshore Order # 2 which states the BOPE shall be tested to 70% of the yield of the casing when the BOP and casing are not isolated.
- c. The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3" choke line having a 3000 psi WP rating. Oxy requests that the system be tested at 3,000 psi.

d. Oxy requests a variance if Savanna 415 is used to drill this well to use a co-flex line between the BOP and choke manifold. See attached schematic.

Manufacturer: <u>Hebei Ouya Ltd.</u> Serial Number: <u>1642343-04</u>

Length: 39" Size: 3" Ends: flanges

WP rating: 3000 psi Anchors required by manufacturer: No

e. See attached BOP & Choke manifold diagrams.

6. MUD PROGRAM:

| Depth | Mud Wt ppg | Vis Sec | Fluid Loss | Type System | |
|-----------|---------------|------------|------------|------------------------|--|
| 0 – 400' | 8.4 - 8.8 | 27 – 38 | NC | Fresh Water / Spud Mud | |
| 400' – TD | 9.6 – 10 | 28 – 40 | 10 - 20 | Brine Water / 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.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

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

8. LOGGING / CORING AND TESTING PROGRAM:

- A. Mud Logger: Log from 3000' to TD.
- B. DST's: None.
- C. Cased Hole Logs as follows: Gamma Ray / Neutron from surface casing to TD.

9. 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 2545 psi.
- C. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.50 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.

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 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. COMPANY PERSONNEL:

| Name | Title | Office Phone |
|-------------------|------------------------------|---------------|
| Anthony Tschacher | Drilling Engineer | 713-985-6949 |
| Sebastian Millan | Drilling Engineer Supervisor | 713-350-4950 |
| Roger Allen | Drilling Superintendent | 713- 215-7617 |
| Douglas Chester | Drilling Manager | 713-366-5194 |