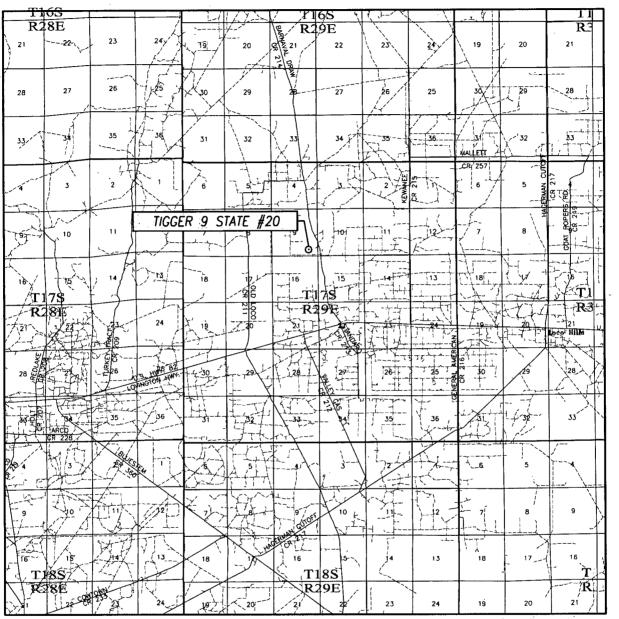
| • | | | | | | | | |
|--|---|---------------|---|---|---------------------------|--|--|---|
| DISTRICT 1 1625 N. French Dr., Hobbs, NM 88 Phone: (575) 393-6161 Fax: (575) DISTRICT II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 7 DISTRICT III 1000 Rio Brazos Roud, Aztec, NM Phone: (505) 334-6178 Fax: (505) 7 DISTRICT IV 1720 S. St. Francis Dr., Saina Fe, N Phone: (505) 476-3460 Fax: (505) 7 | 18-9720 37410 34-6170 | C | DIL CON 1220 Santa I | SERVATIC South St. Fr Fe, New Me | | N REC | EIVED ^{1.01} | Form C-16 wised August 1, 20 e copy to appropria District Offi ENDED REPOR |
| 3D-015-4 | · · · · · · · · · · · · · · · · · · · | 96 | Pool Code |) En | noice: C | Pool Nam | a-4050. | East |
| 309600- | 1 | | T | Property Nam IGGER 9 S | ΓΑΤΕ | . ~ | We | ell Number |
| 192463 | | | C | Operator Nam DXY U.S.A. | · · ~ | ı . | 1 | Elevation 3570' |
| | | | | Surface Locat | ón | | | |
| UL or lot No. Sectio | Township | Range 29-E | Lot Idn | Feel from the 940 | North/South line SOUTH | Feet from the 2220 | East/West line EAST | County EDDY |
| | 17-5 | | Pattam Hal | | rent From Surface | | LANDI | |
| UL or lot No. Section | n Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| NAL SURFA Y=6 X=5 LAT.=3 | SIGNED TO THIS C COORDINATES 27 NME CE LOCATION 70966.8 N 784 19.2 E 2.844312* N 04,077997* W | OMPLETION UN | I I <t< td=""><td>RESTS HAVE BEEN (</td><td>ONSOLIDATED OR A 1</td><td>OPER I hereby cer complete to that this org unleased m proposed b well at this of such mir pooling agr hererofore of Signature Printed N E-mail Ac</td><td>THAS BEEN APPROVE</td><td>CATION erein is true and erein is true and orking interest or neluding the a right to drill this tract with an owner or to a voluntary pooling order A 9/18/ Date Date COXY</td></t<> | RESTS HAVE BEEN (| ONSOLIDATED OR A 1 | OPER I hereby cer complete to that this org unleased m proposed b well at this of such mir pooling agr hererofore of Signature Printed N E-mail Ac | THAS BEEN APPROVE | CATION erein is true and erein is true and orking interest or neluding the a right to drill this tract with an owner or to a voluntary pooling order A 9/18/ Date Date COXY |
| | | | 940' | | | I bereby cen was plotted me or unde and correct Date of Su Signature | tify that the well location from field notes of actual rmy supervision, and that to the best of my belief. APRIL 9, 20 rvey essel of the test of my belief. APRIL 9, 20 rvey (12641) (12641) | shown on this plat surveys made by the same is true 13 Surveyor: S |

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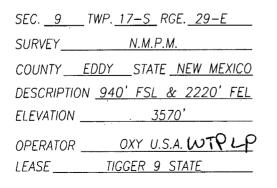
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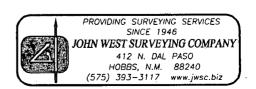
VICINITY MAP

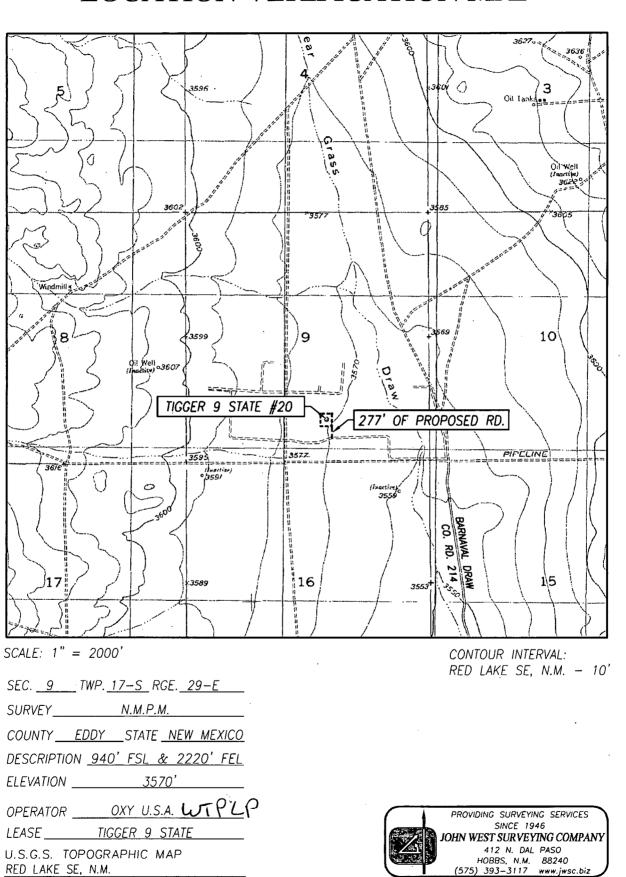


SCALE: 1'' = 2 MILES

NORTH



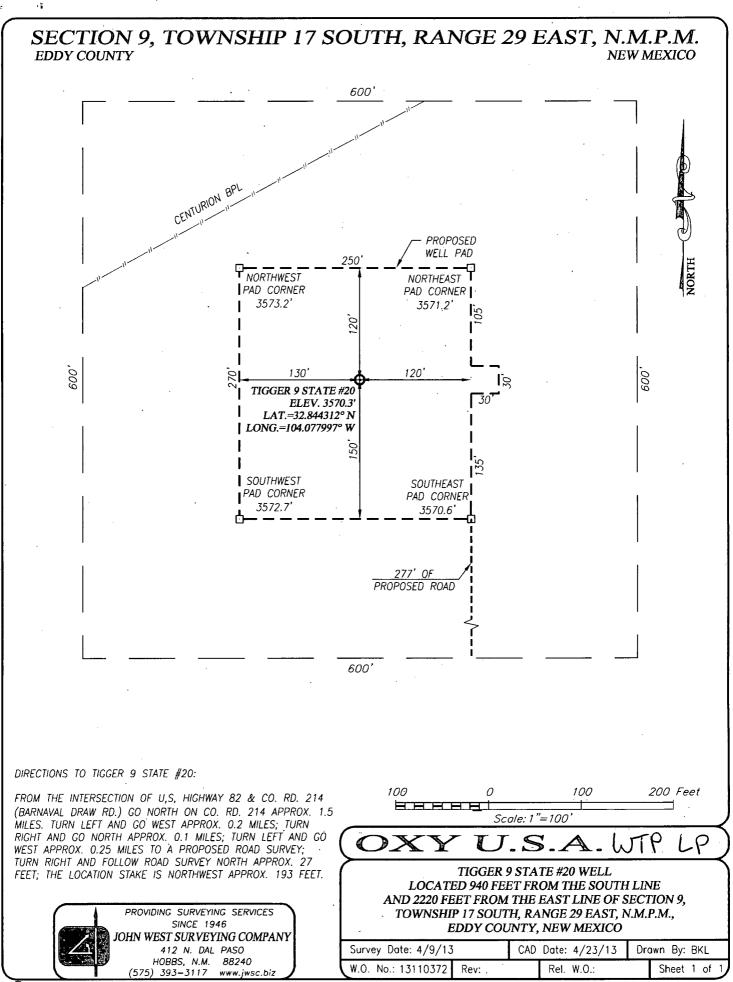




LOCATION VERIFICATION MAP

11

NORTH



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OXY USA WTPLP APD Data

OPERATOR NAME / NUMBER: OXY USA WTPLP 192463

LEASE NAME / NUMBER: <u>Tigger 9 State # 20</u>

Federal Lease No:

STATE: <u>NM</u> COUNTY: <u>Eddy</u>

SURFACE LOCATION:

940' FSL & 2220' FEL, Sec 9, T17S, R29E

APPROX GR ELEV: <u>3570'</u>

EST KB ELEV: <u>3584' (14' KB-GL)</u>

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 |
| Blinebry | 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: 5500' MD / 5500' TVD

OBJECTIVE: <u>Yeso</u>

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 5500'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'- 5,500' | 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 + <u>80%</u> 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 | 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 | A mount sx | Ft of Fill | Туре | Gal/Sk | PPG | Ft ³ /sk | 24 Hr Comp |
|---|---------------|---------------|---|--------|------|---------------------|---------------|
| Production (| TOC: 0' – | 5500') | | | | | |
| 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' - 5500' (100 % Excess) | .560 | 2500 | 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

Vertical well: No directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: <u>0' - 400'</u> None.

Production: <u>400' MD/TVD – 5500' MD / 5500' TVD</u> 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 <u>5</u> 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 | 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 |

<u>Remarks</u>: 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 **<u>NMOCD</u>** 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> | Title | Office Phone | <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 | |