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ABOVE THIS LINE FOR DIVISION USE NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

| T | HIS CHECKLIST IS M | ANDATORY FOR ALL ADMINISTRATIVE APPL WHICH REQUIRE PROCESSING | | | GULATIONS |
|--------|--------------------|--|--|--|-----------|
| Applic | cation Acronym | | AT THE DIVISION LEVEL IN SAI | NIAFE | |
| | [DHC-Dow [PC-Po | ndard Location] [NSP-Non-Standar nhole Commingling] [CTB-Lease ol Commingling] [OLS - Off-Leas [WFX-Waterflood Expansion] [P [SWD-Salt Water Disposal] lified Enhanced Oil Recovery Certi | Commingling] [PLC-lee Storage] [OLM-Off- MX-Pressure Maintenan [IPI-Injection Pressure | Pool/Lease Comminglir Lease Measurement] Ice Expansion] Increase] | ng] |
| [1] | TYPE OF AF | PPLICATION - Check Those Whic Location - Spacing Unit - Simulta NSL NSP SD | | OCCUPANTAL | PERMAN L |
| | Check [B] | One Only for [B] or [C] Commingling - Storage - Measure DHC CTB PLC | | OCCUPATION PIGLET ST SO-015- OLM CIS Congression PPR 7950 | 40820 |
| | [C] | Injection - Disposal - Pressure Inc | crease - Enhanced Oil Re D IPI EOR | ecovery PPR 7950 | -8850 |
| | [D] | Other: Specify | | | |
| [2] | NOTIFICAT [A] | TION REQUIRED TO: - Check Th Working, Royalty or Overrice | | | |
| | [B] | Offset Operators, Leasehold | ers or Surface Owner | | |
| | [C] | Application is One Which R | equires Published Legal | Notice | |
| | [D] | Notification and/or Concurr U.S. Bureau of Land Management - Commi | ent Approval by BLM or ssioner of Public Lands, State Land C | r SLO Office | |
| | [E] | For all of the above, Proof of | of Notification or Publica | ntion is Attached, and/or | -, |
| | [F] | Waivers are Attached | | | |
| [3] | | CCURATE AND COMPLETE IN ATION INDICATED ABOVE. | FORMATION REQU | IRED TO PROCESS | ТНЕ ТҮРЕ |
| | oval is accurate | ATION: I hereby certify that the intant and complete to the best of my kno required information and notification | wledge. Talso understar | nd that <mark>no action</mark> will b | |
| | Not | e: Statement must be completed by an in | dividual with managerial and | d/or supervisory capacity. | |
| Prin | t or Type Name | Signature | Title | | Date |
| | | | e-mail A | ddress | |

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

| I. | PURPOSE:Secondary RecoveryPressure MaintenancexDisposalStorage Application qualifies for administrative approval?YesNo |
|--------|--|
| II. | OPERATOR: _OCCIDENTAL PERMIAN LIMITED PARTNERSHIP |
| | ADDRESS:PO BOX 4294, HOUSTON, TX 77210 |
| | CONTACT PARTY:Jennifer DuartePHONE: _713-513-6640 |
| III. | WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary. |
| IV. | Is this an expansion of an existing project?YesxNo If yes, give the Division order number authorizing the project: |
| V. | Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. |
| VI. | Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. |
| VII. | Attach data on the proposed operation, including: |
| | Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). |
| *VIII. | Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. |
| IX. | Describe the proposed stimulation program, if any. |
| *X. | Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). |
| *XI. | Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. |
| XII. | Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. |
| XIII. | Applicants must complete the "Proof of Notice" section on the reverse side of this form. |
| XIV. | Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. |
| | SIGNATURE: OMNING QUARTE DATE: 10/22/12 |
| * | E-MAIL ADDRESS: 1911 CONNECTION OF THE CONNECTION OF THE PROPERTY OF THE PROPE |

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

| OPERATOR: OCCIDENTAL PERMIAN LTD (15 | 57984) | | · · · · · · · · · · · · · · · · · · · | · · · |
|---|------------------|----------------------|---------------------------------------|---------------------------------------|
| WELL NAME & NUMBER: Piglet State SWD | 1 | | | · · · · · · · · · · · · · · · · · · · |
| WELL LOCATION: 2270' FSL & 2016' FEL FOOTAGE LOCATION | J UNIT LETTER | 21 SECTION | 17S TOWNSHIP | 28E RANGE |
| WELLBORE SCHEMATIC | | WELL CO Surface C | NSTRUCTION DA' | <u>TA</u> |
| | Hole Size: | 17.5" | Casing Size: | 13.375" |
| | Cemented with: | 830 sx. | or | ft ³ |
| | Top of Cement: | Surface | Method Determine | ed: |
| | | Intermediate | e Casing | |
| | Hole Size: | 12.25" | Casing Size: | 9.625" |
| · | Cemented with: | sx. | or | ft ³ |
| | Top of Cement: | Surface | Method Determine | ed: |
| | | Production | Casing | , |
| | Hole Size: | 8.75" | Casing Size: | 7.625" |
| | Cemented with: | 550' sx. | or | ft ³ |
| | Top of Cement: | 1600' | Method Determine | ed: |
| | Total Depth: | 7950' | | , |
| | · | Injection I | nterval | |
| | · | _7950'feet | to8850° | |
| | | (Open Hole from 7 | 950' to 9500') | |

INJECTION WELL DATA SHEET

| Pac | cker Setting Depth: _7900" |
|-----|--|
| Otl | ner Type of Tubing/Casing Seal (if applicable): |
| | Additional Data |
| 1. | Is this a new well drilled for injection?XYesNo |
| | If no, for what purpose was the well originally drilled? |
| 2. | Name of the Injection Formation:Cisco & Canyon |
| 3. | Name of Field or Pool (if applicable): |
| 4. | Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) usedN/A |
| 5. | Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: |

C-108 Application Occidental Permian Limited Partnership Piglet State SWD # 1 2270' FSL & 2016' FEL (Unit J) Section 21, T-17S, R-28E Eddy County, New Mexico

- I. The Purpose of the application is to request approval to drill to Piglet State SWD # 1 and complete as salt water disposal well in the Cisco and Canyon formations.
- II. Occidental Permian Limited Partnership
 P.O. Box 4294
 Houston, TX 77210
 Contact Party: Jennifer Duarte (713-513-6640)
- III. Well data
 - a. Attachment A
 - b. See below
 - (1) Cisco and Canyon
 - (2) Injection Interval Intended to be from 7,950' to 8,850'
 - (3) Well is to be drilled for injection purposes
 - (4) There are no other perforated intervals in this wellbore
 - (5) Higher zone: Wolfcamp Lower zone: Strawn
- IV. This is not an expansion of an existing well
- V. Map of area of review Attachment B
- VI. List of wells within area of review and data Attachment C
- VII. Data on proposed operation:
 - a. Plan to inject an anticipated daily rate of 15,000 bwpd and a maximum daily rate of 30,000 bwpd
 - b. Closed System
 - c. Average injection pressure is anticipated to be 1,200 psi with a maximum pressure of 1,400 psi (maintaining 0.2 psi/ft to be in compliance with NMOCD assigned gradient). If a higher injection pressure is later deemed necessary, Occidental Permian LTD will conduct the necessary step rate injection test to determine the fracture gradient of the injected formations
 - d. Sources of produced water to inject from the Paddock and Blinebry formations, and Morrow formation. Analysis of injection fluid Attachment D
 - e. Analysis of water of disposal zone not available at this time. Injection is to occur in the Cisco and Canyon formations which are non-productive
- VIII. Lithology: limestone and dolomite

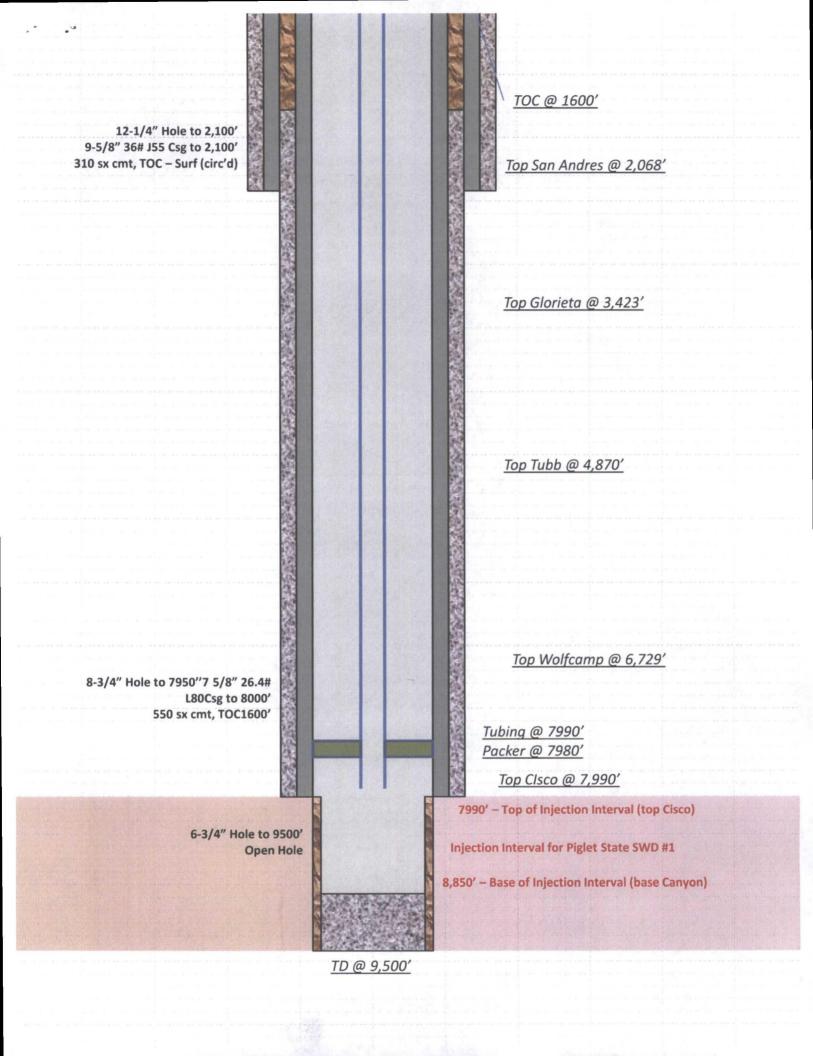
Geologic name: Cisco & Canyon

Thickness of proposed interval: 900' (8800'-7900')

Depth: top of proposed interval 7900'- base of proposed interval: 8800'

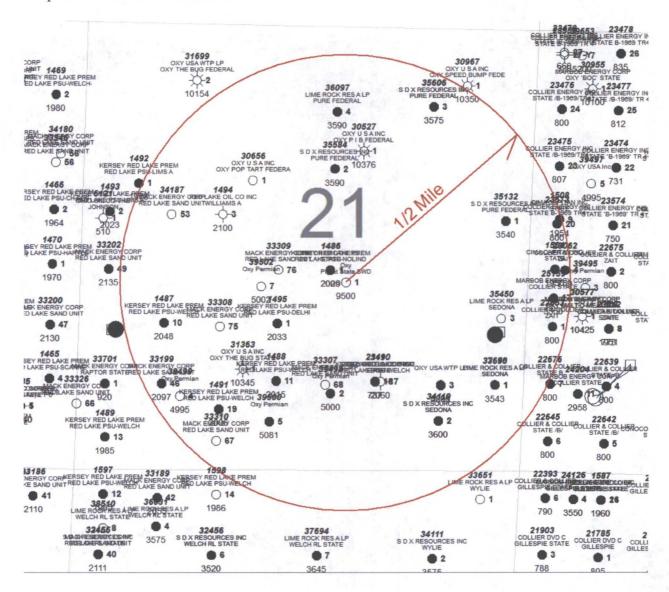
Fresh water zone: Rustler, estimated interval: 180'-330'

- IX. Propose to acid stimulate injection interval with 15% NEFE acid
- X. Logs will be submitted after drilling
- XI. Water wells (2 or more) Attachment D (Continued)
- XII. Affirmative statement Attachment E
- XIII. Proof of notice Attachment F

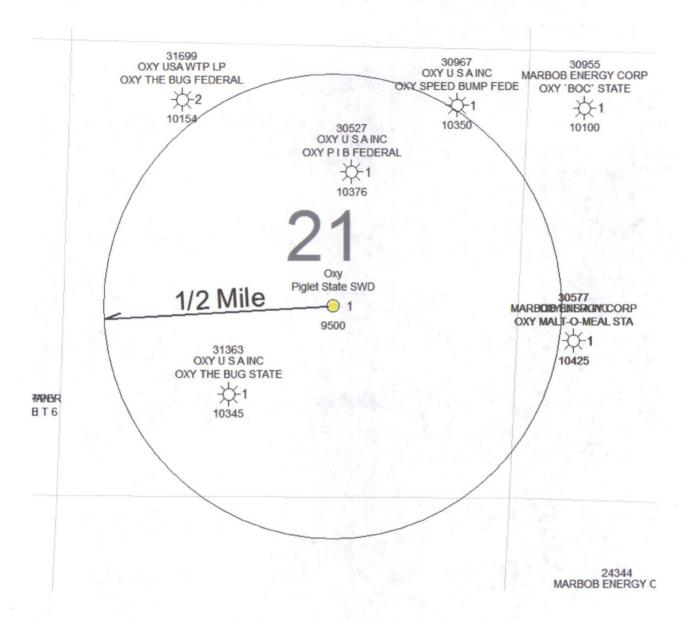


ATTACHMENT B

• Map of all wells within 2 miles



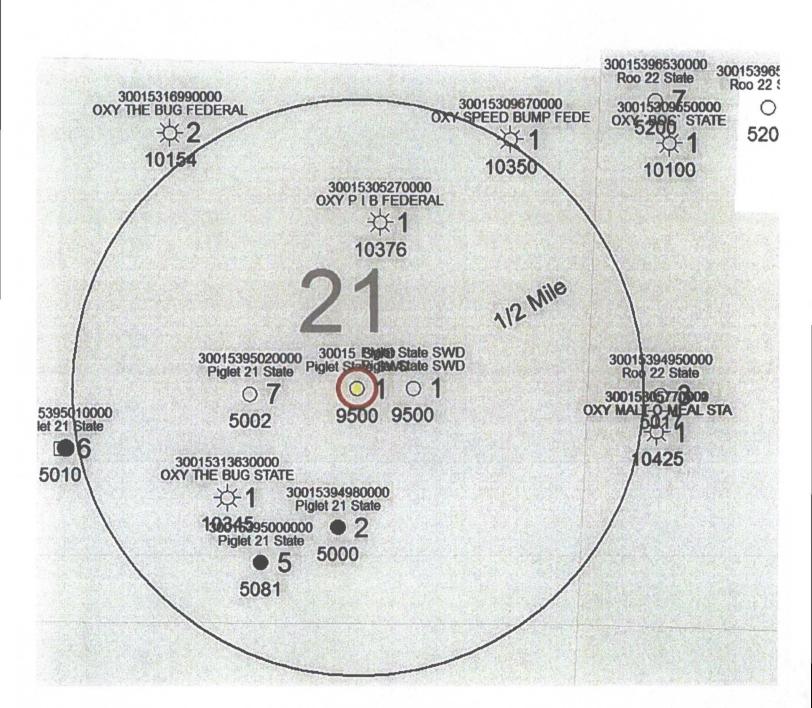
• Map of well within ½ mile that penetrate the proposed injection zone



Wells within ½ mile of proposed Oxy SWD well that reached the Cisco Fm.:

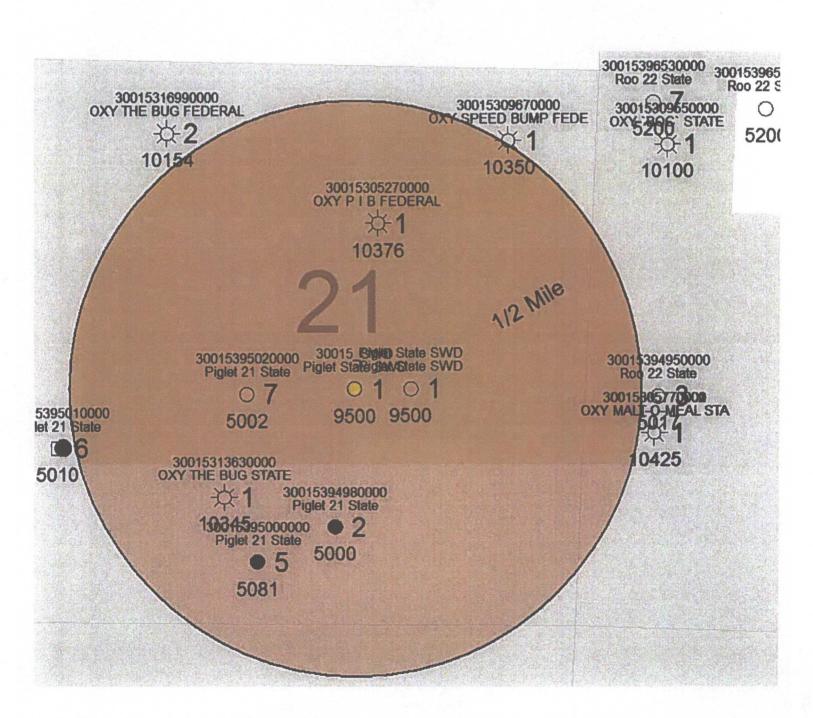
30-015-30527 Oxy, Oxy PIB Federal #1 30-015-31363 Oxy, Oxy the Bug State #1

Piglet State SWD #1

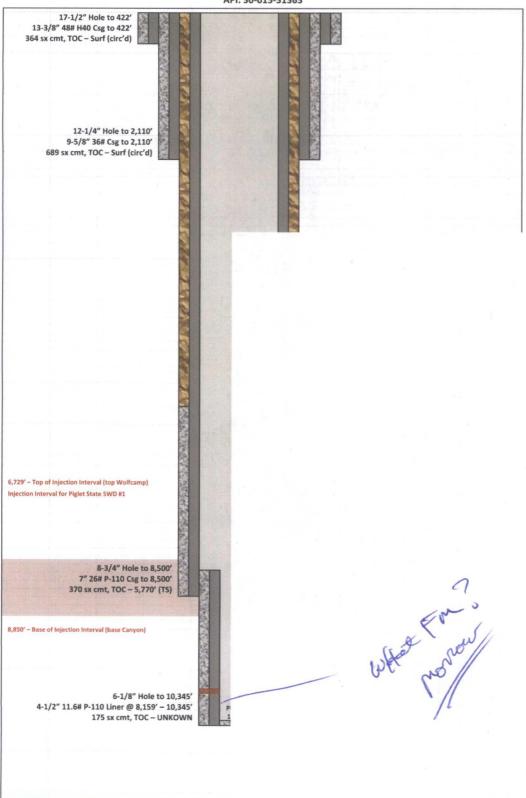


Piglet State SWD #1

Within a 0.5 mile radius:



Oxy The Bug State #1 API: 30-015-31363



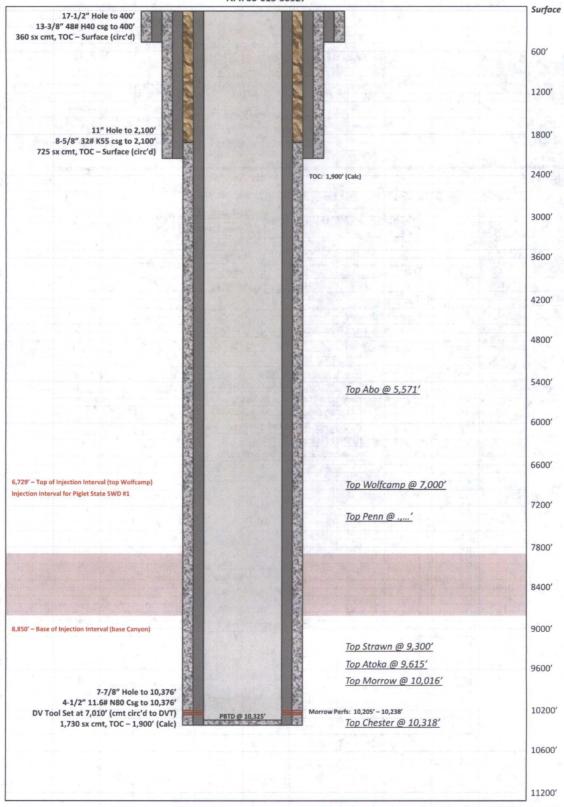
ATTACHMENT C

• Wells data within area of review

Wells within 1/2 Mile of proposed SWD well

| Well Name | API | OPERATOR | SEC | UNIT | TWN | RNG | N/S DIR | E/W DIR | WELL TYPE | STATUS | DEPTH | COMPLETION DATE |
|-------------------|--------------|-------------|-----|------|-----|-----|-----------|-----------|--------------|--------|---------|-----------------|
| PIB Federal # 1 | 30-015-30527 | OXY USA WTP | 21 | G | 175 | 28E | 2440 FNL | 1980' FEL | GAS | ACTIVE | 10,376' | 1/22/1998 |
| The Bug State # 1 | 30-015-31363 | OXY USA WTP | 21 | N | 175 | 28E | 1160' FSL | 1937' FWL | GAS | ACTIVE | 10,345' | 12/11/2000 |

Oxy PIB Federal #1 API: 30-015-30527



ATTACHMENT D

Water test results

Paddock and Blinebry:



Water Analysis Report

6/28/2012

Address:

Lease: Roo 22 St

Formation:

Salesman: John Vie

Customer: OXY USA Attention: Van Barton

CC: Jerry Harrison

Target Name: Roo 22 St. 4

Sample Point: Roo 22 St. 4

Sample Date: 06/21/2012 Test Date: 06/25/2012

| Water Analysis(mg/L) | | |
|------------------------|--------|---|
| Calcium | 5432 | T |
| Magnesium | 1010 | |
| Barium | 0.08 | ī |
| Strontium | 159.4 | |
| Sodium(calc.) | 65669 | |
| Bicarbonate Alkalinity | 732 | |
| Sulfate | 3412 | |
| Chloride | 111000 | |
| Designativity | 0.0044 | |

| Appended Data(mg/L) | | |
|---------------------|-------|--|
| CO2 | 570 | |
| H2S | 205.2 | |
| Iron | 6.451 | |
| Oxygen | | |
| Manganese | .114 | |

| Physical Properties | | |
|----------------------|------|--|
| Ionic Strength(calc. | 3.43 | |
| pH(calc.) | 6.39 | |
| Temperature(°F) | 90 | |
| Pressure(psia) | 50 | |
| Density | 9.42 | |

| Inuition | 109.4 | |
|------------------------|--------|---|
| Sodium(calc.) | 65669 | |
| Bicarbonate Alkalinity | 732 | |
| Sulfate | 3412 | 1 |
| Chloride | 111000 | 7 |
| Resistivity | 0.0341 | 1 |

| Additional Data | |
|------------------------------|--------|
| Specific Gravity | 1.13 |
| Total Dissolved Solids(Mg/L) | 187421 |
| Total Hardness(CaCO3 Eq Mg/ | 17719 |

Celestite (Strontium Sulfate)

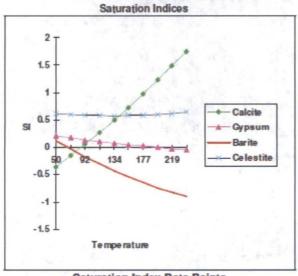
| Dew Point | |
|------------------|-----|
| Lead | 172 |
| Zinc | |

84.80

| Calculation Method | Value |
|--------------------|-------|
| CO2 in Brine(mg/L) | 570 |

| Remarks: | Potassium-787.7 | |
|----------|-----------------|--|
| | | |
| | | |

| SI & PTB Results | 100 | |
|-------------------------------|------|-----------|
| Scale Type | SI | PTB |
| Calcite (Calcium Carbonate) | 0.03 | 13.10 |
| Gypsum (Calcium Sulfațe) | 0.14 | 467.40 |
| Hemihydrate (Calcium Sulfate) | 0.10 | 289.00 |
| Anhydrite (Calcium Sulfate) | 0.20 | 492.90 |
| Darito (Darium Sulfato) | 0.17 | 1 1 1 2 2 |



| Saturation Index Data Points | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 50 | 71 | 92 | 113 | 134 | 156 | 177 | 198 | 219 | 240 |
| Calcite | -0.37 | -0.16 | 0.05 | 0.27 | 0.50 | 0.73 | 0.98 | 1.23 | 1.49 | 1.75 |
| Gypsum | 0.21 | 0.17 | 0.13 | 0.10 | 0.07 | 0.04 | 0.02 | -0.01 | -0.03 | -0.05 |
| Barite | 0.12 | -0.04 | -0.18 | -0.31 | -0.44 | -0.55 | -0.65 | -0.75 | -0.83 | -0.90 |
| Celestite | 0.62 | 0.61 | 0.59 | 0.59 | 0.58 | 0.59 | 0.60 | 0.61 | 0.63 | 0.66 |



Water Analysis Report

9/5/2012

Address:

Customer: OXY USA Attention: Van Barton CC: Jerry Harrison Lease: Spurck

Formation:

Salesman: Mike Arnold

Target Name: Spurck 15 St Com #2

Sample Point: Spurck 15 St Com #2

Sample Date: 08/29/2012

Test Date: 09/04/2012

| Water Analysis(mg/L) | |
|------------------------|--------|
| Calcium | 889.5 |
| Magnesium | 137.3 |
| Barium | 0.537 |
| Strontium | 89.63 |
| Sodium(calc.) | 12109 |
| Bicarbonate Alkalinity | 610 |
| Sulfate | 493 |
| Chloride | 20000 |
| Resistivity | 0.1864 |

| Appended Data | (mg/L) |
|---------------|--------|
| CO2 | 550 |
| H2S | 17.1 |
| Iron | 102.3 |
| Oxygen | |
| Manganese | 7.102 |

| Physical Properties | arm of a |
|----------------------|----------|
| Ionic Strength(calc. | 0.62 |
| pH(calc.) | 5.78 |
| Temperature(°F) | 90 |
| Pressure(psia) | 50 |
| Density | 8.53 |

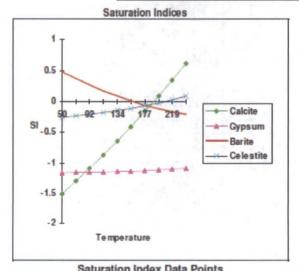
| Additional Data | |
|------------------------------|-------|
| Specific Gravity | 1.02 |
| Total Dissolved Solids(Mg/L) | 34431 |
| Total Hardness(CaCO3 Eq Mg/ | 2786 |

| Dew Point | 3" Buk |
|-----------|--------------|
| Lead | I per her is |
| Zinc | All ACT |

| Calcite | Calculation Information | |
|---------|-------------------------|-------|
| 14 (14) | Calculation Method | Value |
| | CO2 in Brine(mg/L) | 550 |

| Remarks: | | |
|----------|--|--|
| 1 | | |
| | | |

| Scale Type | SI | PTB |
|-------------------------------|-------|-----------|
| Calcite (Calcium Carbonate) | -1.11 | |
| Gypsum (Calcium Sulfate) | -1.16 | 100 |
| Hemihydrate (Calcium Sulfate) | -1.09 | 1 1 1 1 1 |
| Anhydrite (Calcium Sulfate) | -1.38 | |
| Barite (Barium Sulfate) | 0.28 | 0.10 |
| Celestite (Strontium Sulfate) | -0.21 | |



| | | | | Satu | ation inde | x Data Poi | กเร | | | |
|-----------|-------|-------|-------|-------|------------|------------|-------|-------|-------|-------|
| | 50 | 71 | 92 | 113 | 134 | 156 | 177 | 198 | 219 | 240 |
| Calcite | -1.51 | -1.30 | -1.09 | -0.87 | -0.64 | -0.41 | -0.16 | 0.09 | 0.35 | 0.61 |
| Gypsum | -1.17 | -1.16 | -1.16 | -1.15 | -1.14 | -1.14 | -1.13 | -1.12 | -1.10 | -1.09 |
| Barite | 0.48 | 0.37 | 0.27 | 0.17 | 0.09 | 0.01 | -0.06 | -0.12 | -0.17 | -0.21 |
| Celestite | -0.25 | -0.23 | -0.21 | -0.18 | -0.14 | -0.11 | -0.06 | -0.02 | 0.03 | 0.09 |

ATTACHMENT D (continued) Surrounding water well analysis

| P.O. BOX 98 MIDLAND, TX. 79702 | Martin Water Labora | atories, Inc. | | 709 W. INDIANA MIDLAND, TEXAS 797 |
|--|--|---------------------|-------------------|--------------------------------------|
| PHONE (432) 683-4521 | RESULT OF WATER | NALYSES | | FAX (432) 682-8819 |
| | 1 | ABORATORY NO | | 912-77 |
| TO: Dusty Weaver | | AMPLE RECEIVED _ | | 8-30-12 |
| 6 Desta Drive, Suite 6000, Midla | - J TV BOSOS | ESULTS REPORTED_ | | 9-7-12 |
| | | | | CAN'T SHIP |
| COMPANY Occidental Permian Ltd | i. LE | ASEMo | Ham 34 State # | 1 |
| SECTION BLOCK SURVEY | COUNTY F | ddy STATI | E 1 | MM |
| SOURCE OF SAMPLE AND DATE TAKEN | d- | JIA! | | N/N |
| NO. 1 Section 22, T/S-17S, R | ange 28E. 8-29-12 | | | |
| Section 23 T/S-17C D | ange 28F 8-29-12 | | | |
| | | 77 | | |
| NO. 3 | | | | |
| NO. 4 | | | | |
| REMARKS: | The second second second | | | 4800 |
| | CHEMICAL AND PHYSICA | L PROPERTIES | | |
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1.0028 | 1.0025 | T. Kirolin M. | West of the second |
| pH When Sampled | The Contract of the Contract o | 2070 | 256 1 | |
| pH When Received | 8.30 | 7,90 | | 1 |
| Bicarbonate as HCO ₃ | 122 | 283 | | |
| Superseturation as CaCO, | | | | |
| Undersaturation as CaCO, | | | | |
| Total Hardness as CaCO, | 900 | 1,000 | 1,118 | |
| Calcium as Ca | 276 | 312 | 1 15000 | 1.5 |
| Magnesium as Mg | 51 | 53 | 4 % | |
| Sodium and/or Potassium | 90 | 1,106 | | |
| Sulfate as SO, | 718 | 202 | | |
| Chronide as CI | 178 | 2,102 | | |
| Iron as Fe | 0.15 | 0.15 | | |
| Barium as Ba | . 0 | 0 | | |
| Turbidity, Electric | | | | |
| Color as Pt | | A171 | | |
| Total Solids, Calculated | 1,435 | 4,058 | | |
| Temperature 'F. | and the first course | | | |
| Carbon Droxide, Calculated | | | | |
| Dissolved Oxygen, | | | | |
| Hydrogen Sullide | 0.0 | 0.0 | | |
| Resistivity, ohme/m at 77* F. | 5.090 | 1.438 | | |
| Suspended Oil Filtrable Solids as mg/l | | | | |
| | | | | |
| Volume Filtered, mi | | | | |
| 1 | | - | | |
| | | | | |
| | Results Reported As Milligra | ms Per Liter | | |
| Additional Determinations And Remarks | The undersigned ce | | he true and com | act to the best |
| of his knowledge and belief. | | turies inc above to | DE TITLE AIRT CON | ect to the best |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | 100 |
| | | | • | |

Greg Ogden, B.S.

LATHAM PRINTING CO: - 333-1292

| Submit 1 Copy To Appropriate District State of New Mexico | Form C-103 |
|--|---|
| Office District 1 = (575) 393-6161 Eight y, Minerals and Natural Resources | Revised August 1, 2011 |
| 1625 N French Dr., Hobbs. NM 88240 <u>District II</u> - (575) 748-1283 | WELL API NO. 30-015-40820 |
| 811 S. First St., Artesia, NM 88210 OIL CONSERVATION DIVISION | 5. Indicate Type of Lease |
| District III - (505) 334-6178 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 | STATE S FEE |
| District IV - (505) 476-3460 Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM | 6. State Oil & Gas Lease No. B0-1969 |
| 87505 | |
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name |
| DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH | PIGLET STATE SWD |
| PROPOSALS.) 1. Type of Well: Oil Well Gas Well Other SWD | 8. Well Number #1 |
| 2. Name of Operator | 9. OGRID Number |
| OCCIDENTAL PERMIAN LTD | 157984 |
| 3. Address of Operator | 10. Pool name or Wildcat |
| PO BOX 4294; HOUSTON, TX 77210 | SWD; CISCO-CANYON (96186) |
| 4. Well Location | foot from the line |
| Unit Letter J :feet from the line and Section Township Range | feet from theline NMPM County |
| Section Township Range 11. Elevation (Show whether DR, RKB, RT, GR, etc. | |
| | |
| | · |
| 12. Check Appropriate Box to Indicate Nature of Notice | , Report or Other Data |
| NOTICE OF INTENTION TO: SUE | SSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL WOR | |
| - | RILLING OPNS. P AND A |
| PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN | IT JOB |
| DOWNHOLE COMMINGLE | |
| OTHER: | |
| 13. Describe proposed or completed operations. (Clearly state all pertinent details, a | nd give pertinent dates, including estimated date |
| of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Co | ompletions: Attach wellbore diagram of |
| proposed completion or recompletion. | |
| | · |
| | |
| | |
| | |
| Occidental Permian LTD request to make changes to the propsed drilling plan for the abo | ve mentioned well. Please see the attached |
| documents that will outline the changes. If you have any questions or need any additional | information, please feel free to contact us at |
| any time. | |
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| | |
| I hereby certify that the information above is true and complete to the best of my knowled | lge and belief. |
| 1 1/0 1 | |
| SIGNATURE TITLE_Regulatory Analyst | DATE_11/09/2012 |
| | |
| Type or print nameJenlefer Duarte E-mail address: _jennifer_duarte@oxy.com_ For State Use Only | PHONE: _/13-313-0040 |
| | |
| APPROVED BY: | DATE |
| Conditions of Approval (if any): | |

OXY USA Inc Piglet State SWD 1 Sundry Information

OPERATOR NAME / NUMBER: OCCIDENTAL PERMIAN LIMITED PARTNERSHIP

LEASE NAME / NUMBER: Piglet State SWD 1

STATE: NM

COUNTY: Eddy

SURFACE LOCATION:

2270' FSL & 2016' FEL, Sec 21, T17S, R28E

C-102 PLAT APPROX GR ELEV: 3653.5'

EST KB ELEV: 3670' (16.5' KB)

1. SUMMARY OF CHANGES

- a. Changed the casing program/hole sizes to allow us to drill with a smaller rig (Flex 4, H&P 344).
- b. Adjusted cement program with smaller casing sizes/hole sizes.
- c. We will install our BOPE for the Intermediate Secion instead of having to use a diverter.
- d. Mud Logging: Intermediate (2100') to TD (9500').
- e. Two Open Hole Logs as follows: Open Hole Triple Combo Intermediate Hole Section (2100') to TD (7950'). Open Hole Triple Combo Open Hole Section (7950') to TD (9500').

2. CASING PROGRAM (All casing is in NEW CONDITION)

Surface Casing: 11.75" casing set at ± 500' MD/ 500' TVD in a 14.75" hole filled with 8.4 ppg mud

| Interval | Length | Wt | Gr | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|----------|--------|----|------|------|-------------------------|--------------------------|-------------------|------------|---------------|------------|-------------|-----------|
| 0'- 500' | 500' | 42 | H-40 | ST&C | 1070 | 1980 | 307 | 11.084 | 10.92 8 | 7.94 | 2.80 | 20.97 |

Intermediate Casing: 9.625" casing set at ± 2100' MD/ 2100' TVD in a 10.625" hole filled with 10 ppg mud

| Interval | Length | Wt | Gr | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|----------|--------|----|------|--------|-------------------------|--------------------------|-------------------|------------|---------------|------------|-------------|-----------|
| 0'-2100' | 2100' | 36 | J-55 | Ult-FJ | 2020 | 3520 | 523.2 | 8.842 | 8.75 | 2.86 | 2.68 | 3.19 |

Production Casing: 7.625" casing set at ± 7950'MD / 7950'TVD in a 8.75" hole filled with 9.2 ppg mud

| Interval | Length | Wt | Gr | Cplg | Coll Rating (psi) | Burst Rating (psi) | Jt Str (M-lbs) | ID (in) | Drift (in) | SF Coll | SF Burst | SF Ten |
|--------------|--------|------|------|--------|-------------------------|--------------------------|-------------------|------------|---------------|------------|-------------|-----------|
| 0'- 7950' | 7950' | 26.4 | L-80 | Ult-FJ | 3400 | 6020 | 424 | 6.975 | 6.844 | 1.84 | 3.80 | 1.51 |

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

Open Hole: 6.75" hole filled with 9.2 ppg mud from $\pm 7950' - \pm 9500'$ the wellbore will be exposed. (Open Hole Completion). Before moving the rig, a second barrier will be installed in the well.

3. CEMENT PROGRAM:

Surface Interval

| Interval | Amount sx | Ft of Fill | Туре | Gal/Sk | PPG | Ft³/sk | 24 Hr Comp |
|--|--------------|---------------|--|--------|------|--------|---------------|
| Surface (TOC | 0' - 500') | | | | | | |
| Tail: 0' - 500' (150% Excess) | 430 | 500' | Premium Plus Cement: 94 lbm/sk Premium Plus Cement, 2 % Calcium Chloride - Flake | 6.39 | 14.8 | 1.35 | 2500 psi |

Intermediate Interval

| Interval | Amount sx | Ft of Fill | Туре | Gal/Sk | PPG | Ft³/sk | 24 Hr Comp |
|--|--------------|---------------|---|--------|------|--------|---------------|
| Intermediate (| TOC: 0' - 2 | 100') | | | | | |
| Lead: 0' - 1600' (150 % Excess) | 210 | 1600' | Halliburton Light Premium Plus with 5% Salt, 3 lbm/sk Kol-Seal 0.125 lb/sx Poly-E-Flake | 9.95 | 12.9 | 1.89 | 530 psi |
| Tail: 1600' - 2100' 150 % Excess) | 150 | 500' | 50/50 Poz Premium Plus with 3% Salt, 0.4% Halad®-322, 0.125 lbm/sk Poly-E-Flake | 5.64 | 14.5 | 1.24 | 1045 psi |

Production Interval

| Interval | Amount sx | Ft of Fill | Туре | Gal/Sk | PPG | Ft³/sk | 24 Hr Comp |
|---|--------------|---------------|--|--------|------|---------|---------------|
| Production (T | OC: 1600' - | 7950') | | | L | <u></u> | |
| Lead: 0' - 6230' (65 % Excess) | 380 | 6230' | Interfill H: 2 lbm/sk Kol-Seal, 0.3% CFR-3 | 14.34 | 11.9 | 2.50 | 509 psi |
| Tail: 6230' - 7950' (65 % Excess) | 190 | 1720' | Super H Cement with 0.4% Halad®-322, 0.3% CFR-3, 2 lbm/sk Kol-Seal, 1 lbm/sk Salt, 0.2% HR-601 | 5.69 | 14.5 | 1.25 | 1044 psi |

Description of Cement Additives: Cal-Seal 60 (Accelerator), Poly-E-Flake (Lost Circulation Additive), Kol-Seal (Lost Circulation Additive), Calcium Chloride - Flake (Accelerator), CFR-3 (Dispersant), Halad®-322 (Low Fluid Loss Control), HR-601 (Retarder)

PRESSURE CONTROL EQUIPMENT

Surface: 0' - 500' None.

Intermediate: 500' - 2100' 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" 5M two ram stack w/ 3M annular preventer, & 3M Choke Manifold.

- a. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 11 3/4" surface casing and the 11 3/4" SOW x 13 5/8" 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 11 3/4"H-40 42ppf surface easing. All equipment will be tested to 250/1386 (70% of easing burst) psi for 30 minutes with

third party and charted. 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 easing when the BOP and easing are not isolated

Production: 2100' - 9500' Production hole will be drilled be drilled with a 11" 5M two ram stack w/ 3M annular preventer, & 5M Choke Manifold.

- a. The BOP and ancillary BOPE will be tested by a third party upon installation to the 9 5/8" intermediate casing at 2100". All equipment will be tested to 3000 psi (high) and 250 psi (low) except the annular, which will be tested to 70% of its rated working pressure (high) and also to 250 psi (low). All test will performed with the implementation of a test type plug.
- b. 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 5000 psi WP rating. Oxy requests that the system be tested at 5,000 psi.
- c. Oxy requests a variance if H&P 344 is used to drill this well to use a co-flex line between the BOP and choke manifold. See attached schematic.

Manufacturer: ContiTech Beattie Co.

Serial Number: 60220

Length: 25' Size: 3"

Ends: flanges

WP rating: 5000 psi

Anchors required by manufacturer: No

d. See attached BOP & Choke manifold diagrams.

4. LOGGING / CORING AND TESTING PROGRAM:

- A. Mud Logging: Intermediate (2100') to TD (9500').
- B. DST's: None.
- C. Open Hole Logs as follows: Open Hole Triple Combo Intermediate Hole Section (2100') to TD (7950').

 Open Hole Triple Combo Open Hole Section (7950') to TD (9500').

5. 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 4275 psi.
- C. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is 0.45 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.

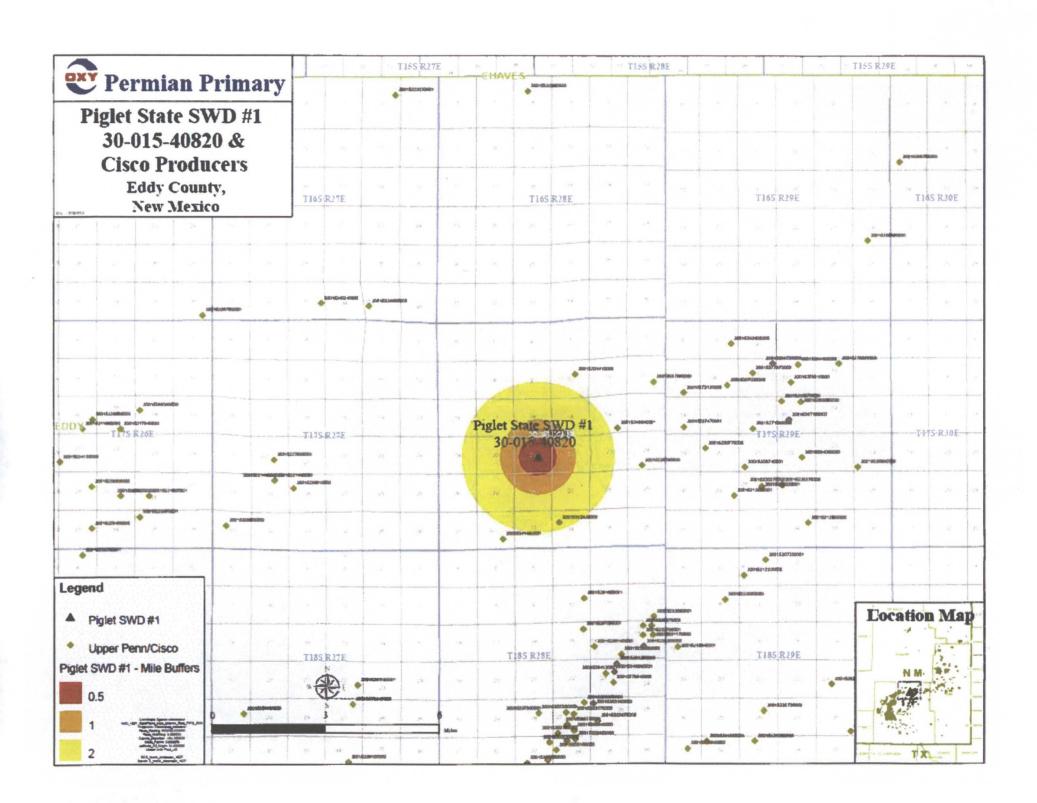
Piglet State SWD # 1

Productivity potential and nearest production from proposed injecting interval:

According to the NMOCD records of nearby production in the Canyon-Cisco formation, RKI Exploration & Production LLC has a well located two miles from the proposed location of the Piglet State SWD #1. The Geronimo 34 State Com # 1Y (API: 30-015-31293) produced from the Cisco formation until 2007 with minimal production until 2010, when the well has reported no production. In 2008, the Geronimo 34 State Com # 1Y filed intent to be converted to SWD, but no records show injection being done currently. The approval of the conversion is pending a change of operatorship to (GSWD LLC).

Attachments:

- 1. Map of nearby wells showing 0.5, 1 and 2 mile radius including surrounding Cisco producer wells.
- Memo form RKI Exploration & Production LLC stating intent to change operator and application to conversion of Geronimo 34 State Com # 1Y into a SWD well



RKI Exploration & Production LLC

3817 NW Expressway, Suite 950, Oklahoma City, OK 73112 405-949-2221 Fax 405-949-2223

December 1, 2008

NMOCD

Attn: SWD Permitting Dept. 1301 W. Grand Avenue Artesia, NM 88210

Re:

Geronimo 34 State Com #1Y API #3001531293 E-Section 34-17S-28E Eddy County, NM

Gentlemen:

Regarding the subject well, please be advised that your office will soon receive from Geronimo SWD, LLC ("GSWD") an Application for Authorization to Inject for saltwater disposal purposes. RKI Exploration & Production, LLC ("RKI") is the operator of the subject property and has entered into negotiations with GSWD to sell the subject wellbore to GSWD; accordingly, RKI is aware of and approves GSWD's application.

Should you have any questions or need anything further from RKI, please do not hesitate to contact me by phone at (405) 996-5767 or via email at creid@rkixp.com.

Sincerely,

Cody Reid Sr. Landman No Approval will be granted pensing of change of approval of change of operator



November 29,2012

Dear Customer:

The following is the proof-of-delivery for tracking number 469500890085.

Delivery Information:

Status:

Delivered

C.GONZALEZ

Delivered to:

Receptionist/Front Desk

Delivery location:

310 OLD SANTA FE TRL **SANTA FE, NM 87501**

Service type:

Signed for by:

FedEx Priority Overnight

Delivery date:

Special Handling

Deliver Weekday

Oct 23, 2012 10:20



Shipping Information:

Tracking number:

469500890085

Ship date:

Oct 22, 2012

Weight:

0.5 lbs/0.2 kg

Recipient:

PETE MARTINEZ **NEW MEXICO STATE LAND OFFICE** 310 OLD SANTA FE TRAIL SANTA FE, NM 87501 US

Reference

Shipper:

MAILROOM **OXY INC**

5 GREENWAY PLAZA STE 110 HOUSTON, TX 77046 US

JENNIFER DUARTE

Thank you for choosing FedEx.



5 Greenway Plaza, Suite 110, Houston, Texas 77046 P.O. Box 4294, Houston, Texas 77210-4294 Direct: 713.513.6640 Fax: 713.985.8849 Jennifer_duarte@oxy.com

November 5, 2012

Re: Application for Authorization to Inject

Piglet State SWD #1

30-015-40820

SL: 2270' FSL & 2016' FEL

J, Sec 21, T17S, R28E

Eddy County, New Mexico

Occidental Permian LTD ("OXY") would like to include this proof of publication in the application for authorization to inject (C108) for the above mentioned well. Should you have any questions or need any additional information, please feel free to contact me at any time.

Thank you in advance for your time.

Occidental Permian LTD

ennifer Duarte

Regulatory Analyst

Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Kathy McCarroll, being first duly sworn, on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

October 25

2012

That the cost of publication is \$50.08 and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this

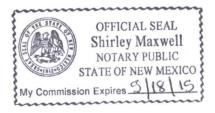
30th day of Datober

2012

Shirley naturel

My commission Expires on may 18, 2015

Notary Public



October 25, 2012

Notice Of Application For Fluid Disposal

Applicant: Occidental Permian Limited Partnership P.O. Box 4294 Houston, TX 77210 ATTN: Jennifer Duarte 713-513-6640

Purpose - Well:
Disposal of Produced Water Into A Zone Productive of Oil & Gas
Piglet State SWD #1
2270 FSL 2016 FEL
NWSE(J) Sec 21 T17S
R28E
Eddy County, NM

Formation: Cisco - Canyon 7950' - 8850' Maximum Injection Rate -30,000 BWPD Maximum Injection Pressure - 1400 psi

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505 within 15 days of this application. THOT



November 29.2012

Dear Customer:

The following is the proof-of-delivery for tracking number 469500890085

Delivery Information:

Status: Signed for by: Delivered C.GONZALEZ

Delivered to: **Delivery location:** Receptionist/Front Desk 310 OLD SANTA FE TRL

Service type:

FedEx Priority Overnight

Delivery date:

SANTA FE, NM 87501

Special Handling

Deliver Weekday

Oct 23, 2012 10:20



Shipping Information:

Tracking number:

469500890085

Ship date: Weight:

Oct 22, 2012 0.5 lbs/0.2 kg

Recipient: PETE MARTINEZ NEW MEXICO STATE LAND OFFICE 310 OLD SANTA FE TRAIL SANTA FE, NM 87501 US

Reference

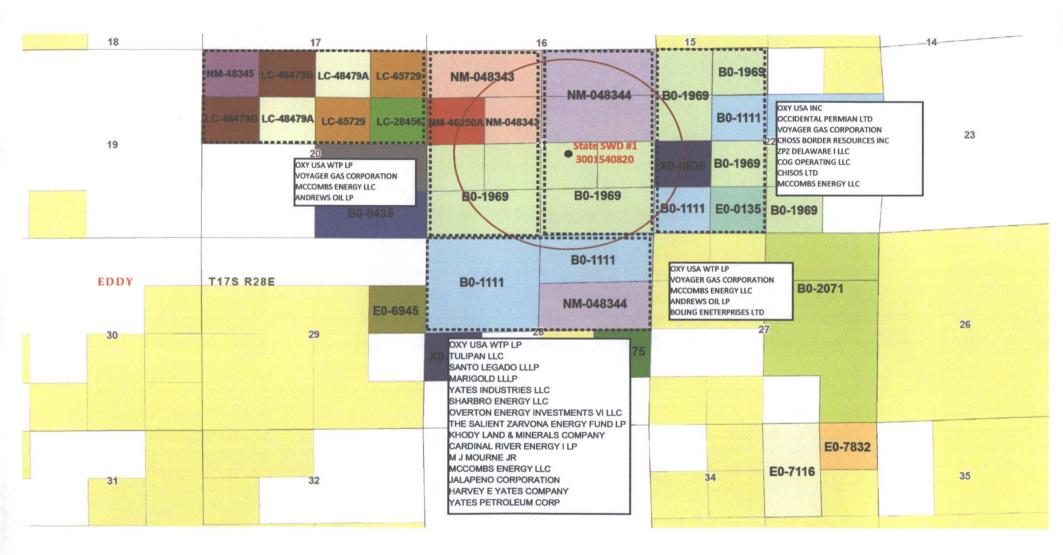
Shipper: MAILROOM **OXY INC**

5 GREENWAY PLAZA STE 110 HOUSTON, TX 77046 US JENNIFER DUARTE

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5 Greenway Plaza, Suite 110, Houston, Texas 77046 P.O. Box 4294, Houston, Texas 77210-4294 Direct: 713.513.6680 Fax: 713.985.4917 Tiffany_Pollock@oxy.com

October 23, 2012

Re: Piglet State Saltwater Disposal Well #1

SL: 2270' FSL & 2016' FEL Section 21: NWSE Township 17 South, Range 28 East

Eddy County, New Mexico

OXY USA WTP Limited Partnership, (hereinafter "OXY") is filing with the New Mexico Oil Conservation Division (hereinafter 'NMOCD") to drill the subject well for produced water disposal. Produced water will be disposed into the Cisco and Canyon formations between approximately 7,950' and 8,850'.

As per the NMOCD requirements, a copy of the C-108 application is attached.

All interested parties opposing the aforementioned must file objections with the NMOCD, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within fifteen (15) days.

Should you have any questions regarding this proposal, please feel free to contact me.

OXY USA WTP Limited Partnership,

Tiffany C. Pollock, CPL

Landman

OFFSET OPERATORS

Alamo Permian Resources LLC 415 West Wall Street Suite 500 Midland, TX 79701 CFM Oil LLC 422 West Main Street Artesia, NM 88210 COG Operating LLC One Concho Center 600 West Illinois Avenue Midland, TX 79701 **Hughes Drilling Company** 31 Jerry Drive Artesia, NM 88210 Legacy Resources Operating, LP 303 West Wall Street Midland, TX 79701 LRE Operating LLC 1111 Bagby Suite 4600 Houston, TX 77002



5 Greenway Plaza, Suite 110, Houston, Texas 77046 P.O. Box 4294, Houston, Texas 77210-4294 Direct: 713.513.6680 Fax: 713.985.4917 Tiffany Pollock@oxy.com

January 7, 2013

Re: Piglet State Saltwater Disposal Well #1

SL: 2270' FSL & 2016' FEL Section 21: NWSE Township 17 South, Range 28 East

Eddy County, New Mexico

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OXY USA WTP Limited Partnership,

Tiffany C. Pollock, CPL Landman

OFFSET OPERATORS

Alamo Permian Resources LLC 415 West Wall Street Suite 500 Midland, TX 79701

> CFM Oil LLC 422 West Main Street Artesia, NM 88210

COG Operating LLC One Concho Center 600 West Illinois Avenue Midland, TX 79701

Hughes Drilling Company 31 Jerry Drive Artesia, NM 88210

Legacy Resources Operating, LP 303 West Wall Street Midland, TX 79701

> LRE Operating LLC 1111 Bagby Suite 4600 Houston, TX 77002

WORKING INTEREST OWNERS

McCombs Energy, LLC 5599 San Felipe Suite 1200 Houston, TX 77056

Voyager Gas Corporation c/o White Oak Operating Co., LLC 12941 North Freeway, Ste. 550 Houston, Texas 77060

Andrews Oil LP c/o DJA LLC General Partner Suite 300-A 1015 Bee Cave Woods Drive Austin, TX 78746

WORKING INTEREST OWNERS CONTINUED

Boling Enterprises LTD P.O. Box 2563 Roswell, NM 88202-2563

Mark Wilson Family Partnership 4501 Green Tree Blvd Midland, TX 79707

Cross Border Resources, Inc. 2515 McKinney Avenue Suite 900 Dallas, TX 75201

ZPZ Delaware I LLC 303 Veterans Airpark Lane, Suite 3000 Midland, Texas 79705

> Chisos, Ltd. 670 Dona Ana Rd SW Deming, NM 88030

Tulipan LLC P.O. Box 1020 Artesia, NM 88211

Santo Legado LLLP P.O. Box 1020 Artesia, NM 88211

Marigold LLLP P.O. Box 1290 Artesia, NM 88211

Yates Industries LLC P.O. Box 1091 Artesia, NM⁵88211

Sharbro Energy LLC 423 West Main Street Artesia, NM 88210

Overton Energy Investments VI LLC 4265 San Felipe Suite 1040 Houston, TX 77027

WORKING INTEREST OWNERS CONTINUED

The Salient Zarvona Energy Fund LP 4265 San Felipe Suite 1040 Houston, TX 77027

Khody Land & Minerals Company 3817 NW Expressway Suite 950 Oklahoma City, OK 73112

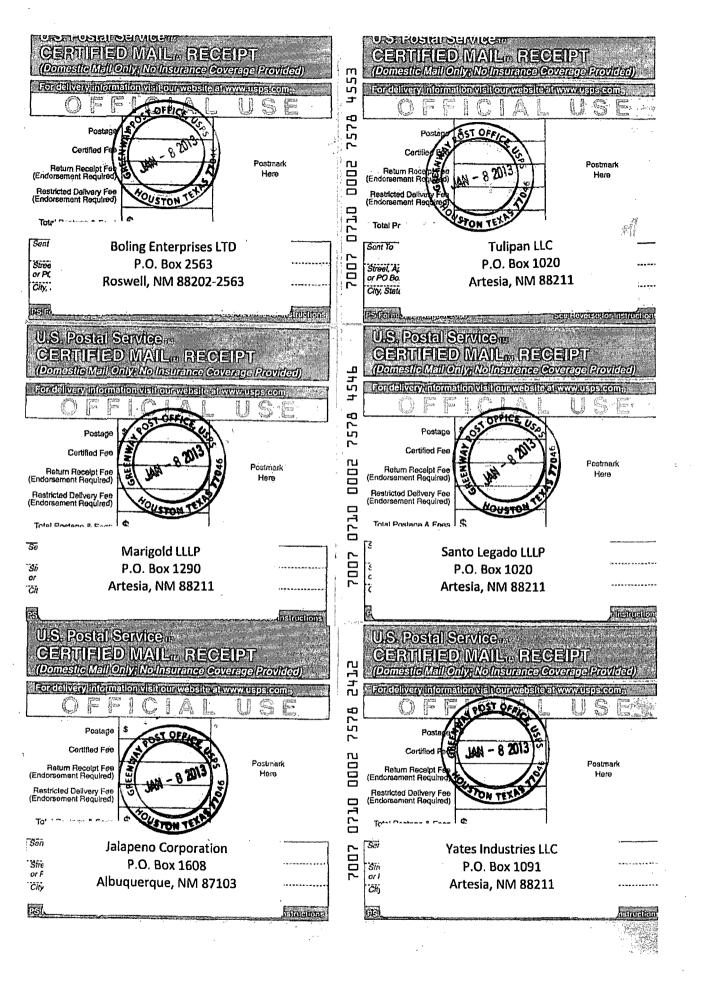
> Cardinal River Energy I LP 210 Park Avenue Suite 1140 Oklahoma City, OK 73102

MJ Mourne Jr. 605 Canon Ridge Trail Canon City, CO 81212

Jalapeno Corporation P.O. Box 1608 Albuquerque, NM 87103

Harvey E. Yates Company P.O. Box 1933 Roswell, NM 88201

Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210



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| FedEx Acct No. Erg. Check Clerck No. Quees | |
| Total Packages Total Weight Total Declared Value* | ¥\$ |
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| Your facility is depland to \$100 onless you declare a higher vidue. See back for denate. By using this Artibil you agree to the service conditions on the back of this Airtibil and in the current Fedia Service Outlide, including terms that the outlier had not lead to the Airtibil and in the current Fedia Service Outlide, including terms. | (B) |

MUR4

From:

Jones, William V., EMNRD

Sent:

Saturday, November 17, 2012 3:21 PM

To:

'jennifer_duarte@oxy.com'

Cc:

Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hewig, Lori, EMNRD; Inge, Richard,

EMNRD

Subject:

Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820

Cisco/Canyon 7950 to 8850 OH

Attachments:

EddyNM_NASH_53_SWD.pdf

Hello Jennifer,

Thank you for the application,

I reviewed it today and have some comments/questions,

AREA DETERMINED

a. It seems we have three registered OGRID registered names-for OXY or Occidental and each of these have multiple wells assigned and separate bonding. Would you explain how you know which wells to assign to which entity?

DK-

- b. Your C-108 form shows two separate operator names and the Division in Artesia has chosen Occidental Permian LTD (OGRID 157984) for this well, so that is what I will use until you tell me differently.
- c. The "Injection Well Datasheet" has discrepancies with the Well Bore Diagram. Would you send a new "Injection Well Datasheet" with corrected data?
- The wellbore diagram shows the open hole extending to 9500 feet and your application states 8850 will be the bottom of disposal depths please send a new wellbore diagram showing clearly all the internal plugs and also showing the tubing and packer in place in the well. We assume that the entire open hole interval is the actual disposal depth range so if you drill the well deeper, you will need to plug back and tag the plug.
- The APD application lists 8003 as top of Penn, yet the planned open hole starts at 7950 feet up in the Wolfcamp. The application only mentions Cisco/Canyon as the disposal interval, do you want the Wolfcamp to be open for disposal?
- What diagnostic testing will OXY do on the open hole interval? Will a mudlog be run and also logs?

 Would you include a brief paragraph from a geologist as to the productivity potential of this planned disposal interval mentioning nearest production and expected water salinity in units of mg/I TDS. Two main things we must ensure is (a) the insitu waters are greater than 10,000 TDS and (aa) the disposal will not harm productive intervals or harm correlative lights.
- h. If the State Land Office is the surface owner, please send proof they were send a copy of the C-108 application. If they are not the surface owner, let me know who is.
- i. Please ask your Landman to certify that the notices sent were as per the Rule for "affected persons" defined in 19.15.26.7A NMAC instead of just to "offset operators".
- j. Our attorney also asks that your Landman identify the separately owned Tracts within depths of the Cisco/Canyon within or partially within the ½ mile Area of Review and the owners of those tracts. The attached example is one way to show this information.

This all sounds like a lot, but hopefully is not too much of a burden.

Happy Thanksgiving,

William V. Jones, P.E. 505-476-3448W 505-476-3462F Engineering Bureau, Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

As for the questions below about the water being more than 10,000 TDS - We are going to run open hole porosity and resistivity logs and use the correlations to verify the water salinity.

As for the notices and what was sent, please see the attached.

Thank you, Jennifer Duarte

Regulatory Analyst

Room# 15.082

Occidental Permian Ltd. / Oxy USA WTP LP / Oxy USA Inc.

Phone: 713/513-6640, Fax: 713/985-8781

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Wednesday, December 26, 2012 12:44 PM

To: Duarte, Jennifer A

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Hello Jennifer,

Thanks for sending the Shared Facility Agreement.

I don't think the SFA gives up control of the minerals from these parties to OXY.

In contrast the notice for SWD purposes is for concerns as to minerals in place in the proposed disposal interval.

Please go ahead and send a copy of OXY's C-108 proposal along with your answers to my previous questions to the parties identified by your Landman on the plat you sent in response to items I and J of the November 17th email – shown below.

As far as proof of notice, you could either list the parties with the certified mailer number or send a copy of the certified mailer receipt for each party – as long as the dates of notice is visible on the copy.

You said the well will be logged, but as discussed below, did you ask your geologist how OXY will verify waters in the target formation are more than 10,000 TDS?

Thank You,

Will

From: Jennifer Duarte@oxy.com [mailto:Jennifer Duarte@oxy.com]

Sent: Wednesday, December 26, 2012 9:55 AM

To: Jones, William V., EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Mr. Jones,

Attached is the documentation on the agreement that we sent Richard on September 26. Please let me know if this is all that you need.

Thank you, Jennifer Duarte

Regulatory Analyst Room# 15.082

Occidental Permian Ltd. / Oxy USA WTP LP / Oxy USA Inc.

Phone: 713/513-6640, Fax: 713/985-8781

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Friday, December 21, 2012 3:55 PM

To: Duarte, Jennifer A

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Jennifer,

Thanks for this reply and the answers – all good,

I will still need to have that "agreement" you talked about. I can't get it from Richard – he is gone for the holidays. In lieu of that, send me a signed statement from a Landman or Attorney stating that an agreement is in place covering all owners within ½ mile of this well and Oxy is in effect the "operator" for these people and looking out for their oil and gas rights.

I will run it by our attorney here, Mr. David Brooks and see if it suffices.

Thanks Again,

Happy Holidays,

Will

From: Jennifer Duarte@oxy.com [mailto:Jennifer Duarte@oxy.com]

Sent: Thursday, December 20, 2012 3:39 PM

To: Jones, William V., EMNRD

Cc: Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Importance: High

Will.

I believe the attached should answer your questions. Please let me know if you need anything else.

Thank you and Happy Holidays!

Thank you, Jennifer Duarte

Regulatory Analyst

Room# 15.082

Occidental Permian Ltd. / Oxy USA WTP LP / Oxy USA Inc.

Phone: 713/513-6640, Fax: 713/985-8781

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Thursday, December 13, 2012 1:54 PM

To: Duarte, Jennifer A

Cc: Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Hello Jennifer.

Thanks for the reply.

I am looking it over and here are a few more comments as I understand this,

Page 1 of the attachment has the wrong hole size for the 7-5/8 inch casing to fit into. Shouldn't it be 8-3/4 inch?

Page 2 of the attachment has the Wolfcamp being productive down to 7950 feet. Is the WC really productive down to the exact top of your disposal interval?

Page 3 is the Well Diagram. It is missing the Disposal Tubing. Also it still shows the open hole interval being larger than your proposed disposal interval. We consider the open hole to be the complete disposal interval even if only portions of the rock take fluid.

If the base of the Canyon is at 8850 feet. Where is the base of the Strawn? Do you want to drill this well, log it and then plug back to the base of the Canyon, or do you want to send notices out that the disposal interval will be from Wolfcamp to Strawn 7950 feet to 9500 feet deep? If you want to drill, log, and then plug back, put that plug-back in the wellbore diagram.

Page 11 of the attachment is the Geology writeup. The geologist should either state that this proposed open hole WILL be non-productive OR tell us the well will be mudlogged and logged after drilling to test for productivity. Also we need a statement as to the Salinity of Waters over the open hole interval (Cisco-Canyon). The waters must be less than 10,000 TDS. If you don't know, you could run porosity and resistivity logs and use a correlation to estimate this. Or a swab test, but that would be costly.

I see the notice to the State Land Office – thank you.

Page 15 of the attachment is the identification of separately owned tracts within the ½ mile AOR – thank you. Please send proof of notice to the owners of those tracts.

Thank You for the reply - we are getting closer,

Happy Holidays,

Will Jones

From: Jennifer Duarte@oxy.com [mailto:Jennifer Duarte@oxy.com]

Sent: Tuesday, December 11, 2012 10:32 AM

To: Jones, William V., EMNRD

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hewig, Lori, EMNRD; Inge, Richard, EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Mr. Jones,

In response to the comments/questions on your email, please see below and the attached as needed.

For A, Occidental Permian Ltd. holds an interest in all of the leases/wells that the SWD well will service. Therefore the operating entity can be as chosen with Occidental Permian Ltd.

* For B, Please use Occidental Permian Ltd.

For C-J, Please see the attached.

If there are still any questions or you need any additional information, please feel free to let me know.

. . .

Thank you, Jennifer Duarte

Regulatory Analyst

Room# 15.082

Occidental Permian Ltd. / Oxy USA WTP LP / Oxy USA Inc.

Phone: 713/513-6640, Fax: 713/985-8781

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Saturday, November 17, 2012 4:21 PM

To: Duarte, Jennifer A

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hewig, Lori, EMNRD; Inge, Richard, EMNRD

Subject: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950 to

8850 OH

Hello Jennifer,

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I reviewed it today and have some comments/questions,

- a. It seems we have three registered OGRID registered names for OXY or Occidental and each of these have multiple wells assigned and separate bonding. Would you explain how you know which wells to assign to which entity?
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- e. The APD application lists 8003 as top of Penn, yet the planned open hole starts at 7950 feet up in the Wolfcamp. The application only mentions Cisco/Canyon as the disposal interval, do you want the Wolfcamp to be open for disposal?
- f. What diagnostic testing will OXY do on the open hole interval? Will a mudlog be run and also logs?
- g. Would you include a brief paragraph from a geologist as to the productivity potential of this planned disposal interval mentioning nearest production and expected water salinity in units of mg/l TDS. Two main things we must ensure is (a) the insitu waters are greater than 10,000 TDS and (aa) the disposal will not harm productive intervals or harm correlative rights.
- h. If the State Land Office is the surface owner, please send proof they were send a copy of the C-108 application. If they are not the surface owner, let me know who is.
- i. Please ask your Landman to certify that the notices sent were as per the Rule for "affected persons" defined in 19.15.26.7A NMAC instead of just to "offset operators".
- j. Our attorney also asks that your Landman identify the separately owned Tracts within depths of the Cisco/Canyon within or partially within the ½ mile Area of Review and the owners of those tracts. The attached example is one way to show this information.

This all sounds like a lot, but hopefully is not too much of a burden.

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William V. Jones, P.E. 505-476-3448W 505-476-3462F Engineering Bureau, Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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Sent:

Tuesday, December 11, 2012 10:32 AM

To:

Jones, William V., EMNRD

Cc:

Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hewig, Lori, EMNRD; Inge, Richard,

EMNRD

Subject:

RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1

30-015-40820 Cisco/Canyon 7950 to 8850 OH

Attachments:

img-Z11123508-0001.pdf.pdf

Mr. Jones,

In response to the comments/questions on your email, please see below and the attached as needed.

For A, Occidental Permian Ltd. holds an interest in all of the leases/wells that the SWD well will service. Therefore the operating entity can be as chosen with Occidental Permian Ltd.

For B, Please use Occidental Permian Ltd.

For C-J, Please see the attached.

If there are still any questions or you need any additional information, please feel free to let me know.

Thank you, Jennifer Duarte

Regulatory Analyst

Room# 15.082

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Phone: 713/513-6640, Fax: 713/985-8781

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Sent: Saturday, November 17, 2012 4:21 PM

To: Duarte, Jennifer A

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hewig, Lori, EMNRD; Inge, Richard, EMNRD

Subject: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950 to

8850 OH

Hello Jennifer,

Thank you for the application,

I reviewed it today and have some comments/questions,

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From:

Jones, William V., EMNRD

Sent:

Thursday, December 13, 2012 12:54 PM

To:

'Jennifer_Duarte@oxy.com'

Cc:

Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD

Subject:

RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1

30-015-40820 Cisco/Canyon 7950 to 8850 OH

Hello Jennifer,

Thanks for the reply.

I am looking it over and here are a few more comments as I understand this,

Page 1 of the attachment has the wrong hole size for the 7-5/8 inch casing to fit into. Shouldn't it be 8-3/4 inch?

Page 2 of the attachment has the Wolfcamp being productive down to 7950 feet. Is the WC really productive down to the exact top of your disposal interval?

Page 3 is the Well Diagram. It is missing the Disposal Tubing. Also it still shows the open hole interval being larger than your proposed disposal interval. We consider the open hole to be the complete disposal interval even if only portions of the rock take fluid.

If the base of the Canyon is at 8850 feet. Where is the base of the Strawn? Do you want to drill this well, log it and then plug back to the base of the Canyon, or do you want to send notices out that the disposal interval will be from Wolfcamp to Strawn 7950 feet to 9500 feet deep? If you want to drill, log, and then plug back, put that plug-back in the wellbore diagram.

Page 11 of the attachment is the Geology writeup. The geologist should either state that this proposed open hole WILL be non-productive OR tell us the well will be mudlogged and logged after drilling to test for productivity. Also we need a statement as to the Salinity of Waters over the open hole interval (Cisco-Canyon). The waters must be less than 10,000 TDS. If you don't know, you could run porosity and resistivity logs and use a correlation to estimate this. Or a swab test, but that would be costly.

I see the notice to the State Land Office – thank you.

Page 15 of the attachment is the identification of separately owned tracts within the ½ mile AOR – thank you. Please send proof of notice to the owners of those tracts.

Thank You for the reply - we are getting closer,

Happy Holidays,

Will Jones

From: Jennifer_Duarte@oxy.com [mailto:Jennifer_Duarte@oxy.com]

Sent: Tuesday, December 11, 2012 10:32 AM

To: Jones, William V., EMNRD

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Hewig, Lori, EMNRD; Inge, Richard, EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Piglet State SWD#1 (izlzoliz)

Page 1 of the attachment has the wrong hole size for the 7-5/8 inch casing to fit into. Shouldn't it be 8-3/4 inch?

• We have corrected the hole size. Please see the attached.

Page 2 of the attachment has the Wolfcamp being productive down to 7950 feet. Is the WC really productive down to the exact top of your disposal interval?

• 7950' is the base of the Wolfcamp / top of the Cisco. The closed Wolfcamp producer bottom perf is at 7585'.

Page 3 is the Well Diagram. It is missing the Disposal Tubing. Also it still shows the open hole interval being larger than your proposed disposal interval. We consider the open hole to be the complete disposal interval even if only portions of the rock take fluid.

If the base of the Canyon is at 8850 feet. Where is the base of the Strawn? Do you want to drill this well, log it and then plug back to the base of the Canyon, or do you want to send notices out that the disposal interval will be from Wolfcamp to Strawn 7950 feet to 9500 feet deep? If you want to drill, log, and then plug back, put that plug-back in the wellbore diagram.

• We estimate the base of the Strawn at approximately ~9600. We plan on drill the well to the proposed 9500' to allow us to properly log the well and will plug it back to the base of the Canyon depending on the results of the logs at approximately ~8850. We amended the wellbore diagram to show our proposed plug and our disposal tubing.

Page 11 of the attachment is the Geology writeup. The geologist should either state that this proposed open hole WILL be non-productive OR tell us the well will be mudlogged and logged after drilling to test for productivity. Also we need a statement as to the Salinity of Waters over the open hole interval (Cisco-Canyon). The waters must be less than 10,000 TDS. If you don't know, you could run porosity and resistivity logs and use a correlation to estimate this. Or a swab test, but that would be costly.

• The drilling plan was revised to discuss the proposed logging during drilling. I sent you a copy of it on December 11th. Yes we will run the porosity and resistivity logs.

I see the notice to the State Land Office – thank you.

Your welcome!

Page 15 of the attachment is the identification of separately owned tracts within the ½ mile AOR – thank you. Please send proof of notice to the owners of those tracts.

• We have a share facility agreement in place with the working interest owners. It was previously submitted in September to Richard Ezeanyim.

From:

Jones, William V., EMNRD

Sent:

Friday, December 21, 2012 2:55 PM

То:

'Jennifer_Duarte@oxy.com'

Subject:

RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1

30-015-40820 Cisco/Canyon 7950 to 8850 OH

Jennifer,

Thanks for this reply and the answers – all good,

I will still need to have that "agreement" you talked about. I can't get it from Richard – he is gone for the holidays. In lieu of that, send me a signed statement from a Landman or Attorney stating that an agreement is in place covering all owners within ½ mile of this well and Oxy is in effect the "operator" for these people and looking out for their oil and gas rights.

I will run it by our attorney here, Mr. David Brooks and see if it suffices.

Thanks Again,

Happy Holidays,

Will

From: Jennifer_Duarte@oxy.com [mailto:Jennifer_Duarte@oxy.com]

Sent: Thursday, December 20, 2012 3:39 PM

To: Jones, William V., EMNRD

Cc: Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Importance: High

Will.

I believe the attached should answer your questions. Please let me know if you need anything else.

Thank you and Happy Holidays!

Thank you, Jennifer Duarte

Regulatory Analyst

Room# 15.082

Occidental Permian Ltd. / Oxy USA WTP LP / Oxy USA Inc.

Phone: 713/513-6640, Fax: 713/985-8781

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Thursday, December 13, 2012 1:54 PM

To: Duarte, Jennifer A

Cc: Ezeanyim, Richard, EMNRD; Brooks, David K., EMNRD; Shapard, Craig, EMNRD

From:

Jones, William V., EMNRD

Sent:

Wednesday, December 26, 2012 2:19 PM

To: Cc: 'Jennifer_Duarte@oxy.com' Brooks, David K., EMNRD

Subject:

RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1

30-015-40820 Cisco/Canyon 7950 to 8850 OH

Jennifer,

Thanks for the TDS info.

The offset operators are not the only ones that must get notice of an SWD application. (See 19.15.26.7A) However, if only those parties noticed control the minerals in the Cisco/Canyon depths then notice was done correctly. If so, ask your Landman to send me another colored map like the one sent before showing the Area of Review and identify the separately owned tracts of land and identify the owners in each tract.

Previously, your landman identified the owners of tracts on the colored map you sent me, but I don't see notices to those owners listed on that colored map.

If that map is correct, it looks like about 24 entities must be noticed.

If you want, we could have your Landman talk (late next week) to our Landman/Attorney (David Brooks) to make sure the proper notice has been done. David's number is 505-476-3450 or email above. He will be back in after the 1st.

Thanks again,

Will

From: Jennifer_Duarte@oxy.com [mailto:Jennifer_Duarte@oxy.com]

Sent: Wednesday, December 26, 2012 12:29 PM

To: Jones, William V., EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

As for the questions below about the water being more than 10,000 TDS - We are going to run open hole porosity and resistivity logs and use the correlations to verify the water salinity.

As for the notices and what was sent, please see the attached.

Thank you, Jennifer Duarte

Regulatory Analyst Room# 15.082

Occidental Permian Ltd. / Oxy USA WTP LP / Oxy USA Inc.

Phone: 713/513-6640, Fax: 713/985-8781

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Wednesday, December 26, 2012 12:44 PM

To: Duarte, Jennifer A

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950 to 8850 OH

Hello Jennifer,

Thanks for sending the Shared Facility Agreement.

I don't think the SFA gives up control of the minerals from these parties to OXY.

In contrast the notice for SWD purposes is for concerns as to minerals in place in the proposed disposal interval.

Please go ahead and send a copy of OXY's C-108 proposal along with your answers to my previous questions to the parties identified by your Landman on the plat you sent in response to items I and J of the November 17th email – shown below.

As far as proof of notice, you could either list the parties with the certified mailer number or send a copy of the certified mailer receipt for each party – as long as the dates of notice is visible on the copy.

You said the well will be logged, but as discussed below, did you ask your geologist how OXY will verify waters in the target formation are more than 10,000 TDS?

Thank You,

Will

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to 8850 OH

Mr. Jones,

Attached is the documentation on the agreement that we sent Richard on September 26. Please let me know if this is all that you need.

Thank you, Jennifer Duarte

Regulatory Analyst

Room# 15.082

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Phone: 713/513-6640, Fax: 713/985-8781

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Sent: Friday, December 21, 2012 3:55 PM

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Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Jennifer,

Thanks for this reply and the answers – all good,

I will still need to have that "agreement" you talked about. I can't get it from Richard – he is gone for the holidays.

From: Jennifer_Duarte@oxy.com

Sent: Thursday, December 27, 2012 8:33 AM

To: Jones, William V., EMNRD
Cc: Brooks, David K., EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1

30-015-40820 Cisco/Canyon 7950 to 8850 OH

Attachments: Rule 19.15.267A & C-108 Form.pdf

Please see the responses in red from my landman:

The offset operators are not the only ones that must get notice of an SWD application. (See 19.15.26.7A – Per this rule, lessees or mineral owners get noticed in the **absence of an operator**; there is no absence of an operator) However, if only those parties noticed control the minerals in the Cisco/Canyon depths then notice was done correctly (the parties noticed were the parties who control the interest per the operating agreements in place). If so, ask your Landman to send me another colored map like the one sent before showing the Area of Review and identify the separately owned tracts of land and identify the owners in each tract (I sent a map showing the WI owners for each 320; the tracts are identified by the leases and the interest is jointly owned per a JOA, so **all of the owners own jointly in the entire 320**.)

Previously, your landman identified the owners of tracts on the colored map you sent me, but I don't see notices to those owners listed on that colored map.

If that map is correct, it looks like about 24 entities must be noticed. (They don't need to be noticed, because there is an operator in place – See 19.15.26.7A)

If you want, we could have your Landman talk (late next week) to our Landman/Attorney (David Brooks) to make sure the proper notice has been done. David's number is 505-476-3450 or email above. He will be back in after the 1st. (I will be back on the 7th and will be happy to talk with him, but it seems like there is no need per all of the comments above. Every operator has been noticed, and since there are division designated operators, per Rule 19.15.26.7A, no one else should be noticed.)

Thank you, Jennifer Duarte

Regulatory Analyst

Room# 15.082

Occidental Permian Ltd. / Oxy USA WTP LP / Oxy USA Inc.

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From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Wednesday, December 26, 2012 3:19 PM

To: Duarte, Jennifer A

Cc: Brooks, David K., EMNRD

Subject: RE: Disposal application from Occidental Permian LTD: Piglet State SWD #1 30-015-40820 Cisco/Canyon 7950

to 8850 OH

Jennifer,

Thanks for the TDS info.

| | Injection Permit Checklist (11/15/2010) | |
|----------|--|------------|
| | WFXPMXSWD138 Permit Date 1/23 13 UIC Qtr (T/F/W) | |
| | # Wells Well Name(s): PIGLET STate Surp # | |
| | API Num: 30-0 15 - 4-08-20 Spud Date: New/Old (UIC primacy March 7, 1982) | _ |
| | Footages 2270FSL 2016FEL Unit J Sec 21 Tsp 175 Rge 28 E County EDDY | _ |
| | General Location: | <u></u> |
| , | Operator: Occi David Perminter to Father Gontact James Duarte | <u>-</u> . |
| | OGRID: 15 1984 RULE 5.9 Compliance (Wells) 2/638 (Finan Assur) OF 18 5.9 OK? | = |
| | Well File Reviewed & Current Status: Floring APT assigned | |
| 2 | Planned Work to Well: Dull/inject | - |
| and , | Diagrams: Before Conversion After Conversion Elogs in Imaging File: Novel Sizes Setting Stage Cement Determination | _ |
| pour | Well Details: HolePipe Depths Tool Sx or Cf Method New Existing Surface 17/2-13/8 500 500 | |
| | New Existing Interm 12/4-978 2100 \$8900 5mf | |
| | New Existing LongSt 258 7.950 5305 X 1600 | |
| | New_Existing Liner State | _ |
|) | New Existing Openhole 8 1 1136 48 to | |
| | Depths/Formations: Depths, Ft. Formation Tops? | |
| , | Formation(s) Above 8003 - Pena L | \neg |
| 1 | Injection TOP: 7950 Max. PSI 1590 OpenHole Perfs | - |
| KTM. | Injection BOTTOM: 383 Conyon Tubing Size 472 Packer Depth 7900 | |
| | Formation(s) Below 9.300 Stream | |
| | Capiter Reof? (Potash? Noticed?) [WIPP? Noticed?] Salado Top/Bot Cliffstonse? | |
| | Fresh Water: Depths: 80-330 Formation RVSTLER Wells? Handlysis? Affirmative Statement | |
| | Disposal Fluid Analysis? Sources: Portleck Blink morr | |
| | Disposal Interval: Analysis? Production Potential/Testing: | De Co |
| | Notice: Newspaper Date 10/25/17 Surface Owner 5 L Mineral Owner(s) | _ 7 |
| | RULE 26.7(A) Affected Persons: 5 as LIST (0/23/2) where | _ 6 |
| | AOR: Maps? Well List? Producing in Interval? N Wellbore Diagrams? | |
| | Active Wells Z Repairs? OwhichWells? | |
| | | |
| | P&A Wells Pepairs? Which Wells? | _ |