| 15 Multes EAST OF ARTESIANM EDDY COUNTY, NM 15. Distance from proposed* 553' location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 16. No. of acres in lease 400 17. Spacing Unit dedicated to this well 40 18. Distance from proposed location* to nearest well, drilling, completed, 403' applied for, on this lease, ft. 19. Proposed Depth 5100' MD / 5100' TVD 20. BL//BIA Bond No. on file ESB000226 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3593.6' 22. Approximate date work will start* 05/30/2013 23. Estimated duration 10 DAYS 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: 4. Bond to cover the operations unless covered by an existing be ltem 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing be ltem 20 above). 25. Signature Name (PrintedTyped) JENNIFER DUARTE (jennifer_duarte@oxy.com) Date 01/15/2 7. Here D MANAGERR Name (PrintedTyped) Date 01/15/2 7. Title YAY YAY | ribe Name | ease Serial No. | | | | | | | Form 3160 -3 (March 2012) |
|--|------------------------|---|------------------|--|---|-----------------------------|--|--|--|
| APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe N ia. Type of work: DRILL REENTER 7. If Unit or CA Agreement, Nar ib. Type of work: OIL Well Gas Well Other Single Zone Multiple Zone ARTESIA VESO FEDERAL 2. Name of Operator OXY USA WIP LIMITED PARTNERSHIP 9. API Well No. 8. Lease Name and Well NG. ARTESIA VESO FEDERAL 3a. Address P.O. BOX 4294 T13-513-6640 RATESIA VESO FEDERAL 9. API Well No. 30 | | /////////////////////////////////////// | | | | INTERIOR | MENT OF THE | DEPARTM | |
| 1a. Type of Wolt: | it, Name and | | | | | | | | |
| Ib. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone ARTESIA YESO FEDERAT 2. Name of Operator OXY USA WTP LIMITED PARTNERSHIP 9. API Well No. 300.15 4/13 3a. Address P.O. BOX 4294 3b. Phone No. (include area code) 10. Field and Pool, or Exploration 4. Location of Well (Report location clearly and in accordance with any Suar requirements ') AI. Sec. T. R. M. or Bik and Sur A; surface 553' FNL & 1207' FEL 4. I cotation of Well (Report location clearly and in accordance with any Suar requirements ') II. Sec., T. R. M. or Bik and Sur A; surface 553' FNL & 1207' FEL 4. I proposed prod. zone 12. County or Parish EDDY COUNTY, NM 15. Distance from proposed focation* 16. No. of acres in lease 17. Spacing Unit dedicated to this well 400 400 40 40 18. Distance from proposed location* 19. Proposed Depth 20. BLMBIA Bond No. on file 5100' MD / 5100' TVD 20. BLMBIA Bond No. on file ESB000226 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3593.6' 24. Attachments 4. Bond to cover the operations unless covered by an existing be time 20 above), 5. Operator certification 3. A surface USP | 1 | Jnit or CA Agreement, Na | 7 If Unit or | | <u> </u> | ER | REEN | DRILL | la. Type of work: |
| 3a. Address P.O. BOX 4294 HOUSTON, TX 77210 3b. Phone No. (include area code) 713-513-6640 10. Field and Pool, or Exploratory ARTESIA; GLORITA- YESD AT proposed prod. Zone 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 553' FNL & 1207' FEL At proposed prod. Zone 11. Sec, T. R. M. or Bik and Sun A: SEC 21, T17S, R28E 14. Distance in miles and direction from nearest town or post office* 12. County or Parish EDDY COUNTY, NM 15. Distance from proposed '553' location to nearest property or lease line, ft (Also to nearest drg: unit line, if any) 16. No. of acres in lease 17. Spacing Unit dedicated to this well 400 18. Distance from proposed location* to nearest well, drilling, completed, 403' applied for, on this lease, ft. 19. Proposed Depth 5100' MD / 5100' TVD 20. BLM/BIA Bond No. on file ESB000226 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 05/30/2013 23. Estimated duration 10 DAYS 24. Attachments 4. Attachments 4. Bond to cover the operations unless covered by an existing by BUPO' must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations and/or plans as may be te BUPO' must be filed with the appropriate Forest Service Office). 25. Signature REGULATORY ANALYST Name (Printed/Typed) Date 01/15/2 Approved by (Signature' /S/George MacDonell Name (Printed/Typed) Date 01/15/2 Title /S/Geor | | | | le Zone | ngle Zone 🔲 Multip | v s | Vell Other | 🖌 Oil Well 🔲 Gas W | lb. Type of Well: |
| HOUSTON, TX 77210 713-513-6640 ARTESIA; GLORITA: YESC 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Bik and Sum A; SEC 21, T17S, R28E At proposed prod. zone 11. Sec., T. R. M. or Bik and Sum A; SEC 21, T17S, R28E 14. Distance in miles and direction from nearest town or post office* 12. County or Parish EDDY COUNTY, NM 15. Distance from proposed * 553' 16. No. of acres in lease 17. Spacing Unit dedicated to this well 400 18. Distance from proposed * 553' 16. No. of acres in lease 17. Spacing Unit dedicated to this well 400 18. Distance from proposed * 553' 19. Proposed Depth 5100' MD / 5100' TVD 20. BL/WBIA Bond No. on file ESB000226 19. Distance from proposed clation* 10. DAYS 23. Estimated duration 10 DAYS 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 10 DAYS 23. Signature 24. Attrachments 10 DAYS 24. Attrachments 11. Well plat certified by a registered surveyor. 2. A Duriling Plan. 4. Bond to cover the operations unless covered by an existing b Item 20 above). 5. Operator certification 6. Such ther site specific information and/or plans as may be re BLM. 25. Signature Mame (Printed/Typed) Date 11/15/2 | 1333 | PI Well No. | 9. API Wel | | | HP | TED PARTNER | tor OXY USA WTP LIMI | 2. Name of Operate |
| At surface 553 FNL & 1207 FEL A: SEC 21, T17S, R28E At proposed prod. zone I2. County or Parish 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 16. MileS EAST OF ARTESIA,NM EDDY COUNTY, NM 15. Distance from proposed* 553' 16. No. of acres in lease 17. Spacing Unit dedicated to this well 400 40 18. Distance from proposed location* 19. Proposed Depth 19. Distance from proposed location* 19. Proposed Depth 10. MD / 5100' TVD 20. BLM/BIA Bond No. on file ESB000226 ESB000226 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3593.6' 05/30/2013 10 DAYS 24. Attachments 4. Bond to cover the operations unless covered by an existing be 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing be 25. Signature Name (PrintedTyped) 0 25. Signature /s/George MacDonell Name (PrintedTyped) Date 01/15/2 Title PFELD MANAGER Name (PrintedTyped) Date 071/15/2 <td>. /</td> <td>· •</td> <td></td> <td>i</td> <td></td> <td></td> <td></td> <td></td> <td></td> | . / | · • | | i | | | | | |
| 14. Distance in miles and direction from nearest town or post office* 12. County or Parish EDDY COUNTY, NM 15. Distance from proposed* 553' 16. No. of acres in lease 17. Spacing Unit dedicated to this well 400 40 18. Distance from proposed location* 19. Proposed Depth 19. Distance from proposed location* 19. Proposed Depth 10. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Stimated duration 10 DAYS 24. Attachments 10 DAYS 25. Signature 4. Bond to cover the operations unless covered by an existing be Item 20 above). 25. Signature 5. Signature 25. Signature Varte 26. Signature /S/George MacDonell Name (Printed/Typed) Date 01/15/2 Title /S/George MacDonell Name (Printed/Typed) Date 01/15/2 Office CAR::SBAD FIELD OFFICE | | | | ······································ | ients.*) | ty State require | nd in accordance with | 3' FNL & 1207' FEL | At surface 553 |
| 15. Distance from proposed* 553' location to nearest property or lease line, ft. (Also to nearest drg, unit line, if any) 16. No. of acres in lease 400 17. Spacing Unit dedicated to this well 40 18. Distance from proposed location* to nearest well, dinling, completed, 403' applied for, on this lease, ft. 19. Proposed Depth 5100' MD / 5100' TVD 20. BLM/BIA Bond No. on file ESB000226 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3593.6' 22. Approximate date work will start* 05/30/2013 23. Estimated duration 10 DAYS 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: 4. Bond to cover the operations unless covered by an existing be Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing be Item 20 above). 25. Signature Name (Printed/Typed) JENNIFER DUARTE (jennifer_duarte@oxy.com) Date 01/15/2 Title YS/George MacDonell Name (Printed/Typed) Date 01/15/2 Title YS/George MacDonell Name (Printed/Typed) Mate | 13. Sta NM | | · · | | | | own or post office* | and direction from nearest to | 14. Distance in miles |
| 18. Distance from proposed location* to nearest well, drilling, completed, 403' applied for, on this lease, ft. 19. Proposed Depth 5100' MD / 5100' TVD 20. BLM/BIA Bond No. on file ESB000226 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3593.6' 22. Approximate date work will start* 23. Estimated duration 10 DAYS 24. Attachments 19. Proposed Depth 5100' MD / 5100' TVD 10 DAYS 24. Attachments 24. Attachments 19. Well plat certified by a registered surveyor. 24. Attachments 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing be Item 20 above). 25. Signature Name (Printed/Typed) JENNIFER DUARTE (jennifer_duarte@oxy.com) Date 01/15/2 7. Title Name (Printed/Typed) JENNIFER DUARTE (jennifer_duarte@oxy.com) Date 01/15/2 7. Title YS/George MacDonell Name (Printed/Typed) Date 01/15/2 7. Title YS/George MacDonell Name (Printed/Typed) Date 01/15/2 7. Title Office CARLSBAD FIELD OFF/CE Max | | | | - | acres in lease | | | oposed* 553' st line, ft. | 15. Distance from pro location to neares property or lease |
| 3593.6' 05/30/2013 10 DAYS 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing be item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing be item 20 above). 5. Signature A Date Difference 5. Operator certification 6. Such other site specific information and/or plans as may be re BLM. Date 01/15/2 7. Title Name (Printed/Typed) Date 01/15/2 Title /S/George MacDonell Name (Printed/Typed) Date 01/15/2 Title /S/George MacDonell Name (Printed/Typed) Date Office CAFL_SBAD FIELD OFFICE | | d No. on file | | | | | | oposed location* | 18. Distance from pro to nearest well dr |
| The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 25. Signature 25. Signature Mame (Printed/Typed) JENNIFER DUARTE (jennifer_duarte@oxy.com) O1/15/2 Title REGULATORY ANALYST Approved by (Signature) /s/George MacDonell Name (Printed/Typed) Title Office CARLSBAD FIELD MANAGER | <u> </u> | | | ι πt* | | | GL, etc.) | w whether DF, KDB, RT, C | |
| 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing be item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). 4. Bond to cover the operations unless covered by an existing be item 20 above). 25. Signature Name (Printed/Typed) Date 01/15/2 7. Title Name (Printed/Typed) Date 01/15/2 7. Approved by (Signature) /S/George MacDonell Name (Printed/Typed) Date 01/15/2 7. Title Image: Printed/Typed item 20 Date 01/15/2 7. Signature /S/George MacDonell Name (Printed/Typed) Date 01/15/2 7. Title Office CAR: SBAD FIELD OFFICE | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| Title May Approved by (Signature) /s/George MacDonell Name (Printed/Typed) Make Title Image: State of the state | y be required | and/or plans as may be r Date | ons unless cover | he operatio cation specific info | 4. Bond to cover the Item 20 above). 5. Operator certifice 6. Such other site and BLM. (Printed/Typed) | Lands, the | ational Forest Syste | by a registered surveyor. Ian (if the location is on Na ed with the appropriate Fore | Well plat certified A Drilling Plan. A Surface Use Pla SUPO must be file |
| Approved by (Signature) /S/George MacDonell Name (Printed/Typed) MAY Title Frei D MANAGER Office CARLSBAD FIELD OFFICE | /15/2013 | xy.com) 01/15/ | arte@oxy.co | nnifer_dua | NIFER DUARTE (jer | JEN | | | |
| CARESBAD FIELD OFFICE | le - 6 2 | MAY | | | (Printed/Typed) | | ge MacDor | | |
| | | L | OFFICE | FIELD O | CARLSBAD | Offic | | FIELD MANAGER | Title |
| Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant holds legal or equitable title to the applicant holds legal or equitable title to the applicant holds legal or equitable title to the applican | | | | | itable title to those right | ds legal or equ | that the applicant he | ereon. | conduct operations the |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. | ency of the I | ny department or agency | make to any dep | villfully to n | eerson knowingly and w within its jurisdiction. | crime for any to any matter | ction 1212, make it a ts or representations | n 1001 and Title 43 U.S.C. Ser ious or fraudulent statement | Title 18 U.S.C. Section States any false, fictiti |
| (Continued on page 2) *(Instructions Roswell Controlled Wate | tions on p later Bi | *(Instruction ontrolled Wate | vell Conti | Rosw | <u> </u> | | <u> </u> | page 2) | (Continued on p |

13-325

SEE ATTACHED FOR CONDITIONS OF APPROVAL

<u>District 1</u> 1623 N. French Dr., Hobbs, NM 88240 Phane: (575) 393-6161 Fax: (575) 393-0720 <u>District III</u> 811-5: First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rosd, Aztec, NM 87410 Phane: (505) 334-6178 Fax: (305) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phane: (305) 476-3460 Fax: (505) 476-3462

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

| | | И | ELL LOCA | TION AND | ACK | EAGE D. | EDICA TIO | NPLAT | | | |
|---------------|---|-----------------|--------------------|--------------|------------------|---------------|------------------|---------------|---------|----------|---------------------|
| 30-0 | 215 | - 4133 | 3 96 | 350 | f | trtes | sia: G | Pool Name | ta- | Yes | Ø |
| 398 | Property Code 39884 ARTESIA YESO FEDERAL UNIT 21 | | | | | | | | | | |
| 192 | ette nd. L | ,3 | ΟΧΥ Ι | | Operator LIMI | | TNERSHIP | 2 | | | Elevation 593.6' |
| | | ······ | | Surfa | ace Lo | ocation | | | | | |
| UL or lot no. | Section | Township | Rang | e | Lot Idn | Feet from the | North/South line | Feet from the | East/We | st line | County |
| A | 21 | 17 SOUTH | 28 EAST, | N. M. P. M. | | 553' | NORTH | 1207' | EAS | T | EDDY |
| L | | | Bottom H | lole Locatio | on If I | Different H | From Surfac | e | | | |
| UL or lot no. | Section | Township | Rang | e | Lot Idn | Feet from the | North/South line | Feet from the | East/We | est line | County |
| | | | | | | | | | | | |
| Dedicated | Acres | Joint or Infill | Consolidation Code | Order No. | | | | | | | |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

| · | in | OPERATOR CERTIFICATION |
|---|---|---|
| | 553 1 | I hereby certify that the information contained herein is true and |
| | | complete to the best of my browledge and belief, and that this |
| | 1207' | organization either owns a working interest or unleased mineral |
| | l IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | interest in the land including the proposed bottom kale location or |
| | | has a right to drill this well at this location parswant to a contract |
| | Λ | with an owner of such a mineral or working interest, or to a |
| | | voluntary pooling agreement or a compulsory pooling order |
| | SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=664042.1 X=548464.5 LAT.: N 32.8254394* LONG.: W 104.1755641* | Aprilia entered a the distant Amnipoliticat 1/15/13 Sennifer Duarte permiter duarte Doxy. Com |
| | | SURVEYOR CERTIFICATION I hereby certify the offer of the second between on this plat was plotted from field poles of achief sub- made by m or under constructions on that he same is the and cores (the second between on that he same is the and cores (the second between on that he same is the and cores (the second between on the plate of Survey) Signature and second Professional Survey FSSIONAL UNITY |
| | | Certificate Night 15079 WOH 120725WL-e (KA) |

OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this day of Statements, 2013.

| Name:Anthony D'Addieco |
|--|
| Position:Reservoir Management Team Leader |
| Address:5 Greenway Plaza, Suite 110, Houston, TX 77046 |
| Telephone:713-350-4964 |
| E-mail: (optional):Anthony_DAddieco@oxy.com |
| Company:Occidental Permian LP / OXY USA Inc / OXY USA WTP LP |
| Field Representative (if not above signatory):Dusty Weaver |
| Address (If different from above): _P.O. Box 50250 Midland, TX 79710 |
| Telephone (if different from above):432-685-5723 |
| E-mail (if different from above):calvin_weaver@oxy.com |

United States Department of the Interior Bureau of Land Management Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220

RE: Artesia Yeso Federal Unit 21 Section 21, 17S-28E Eddy County, New Mexico

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

| OPERATOR NAME: | OXY USA WTP Limited Partnership |
|-----------------------|---------------------------------|
| ADDRESS: | P.O. Box 27570 |
| | Houston, Texas 77227-9804 |

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

LEASE NO.:

NMNM-0048344 (400 Acres)

LEGAL DESCRIPTION:

SL: 553' FNL & 1207' FEL NENE (A) Section 21, T17S-R28E Eddy County, New Mexico

FORMATIONS:

Yeso

BOND COVERAGE:

BLM BOND FILE NO.:

ESB000226

Nationwide

OXY USA WTP Limited Partnership

AUTHORIZED SIGNATURE:

Tiffany Pollock

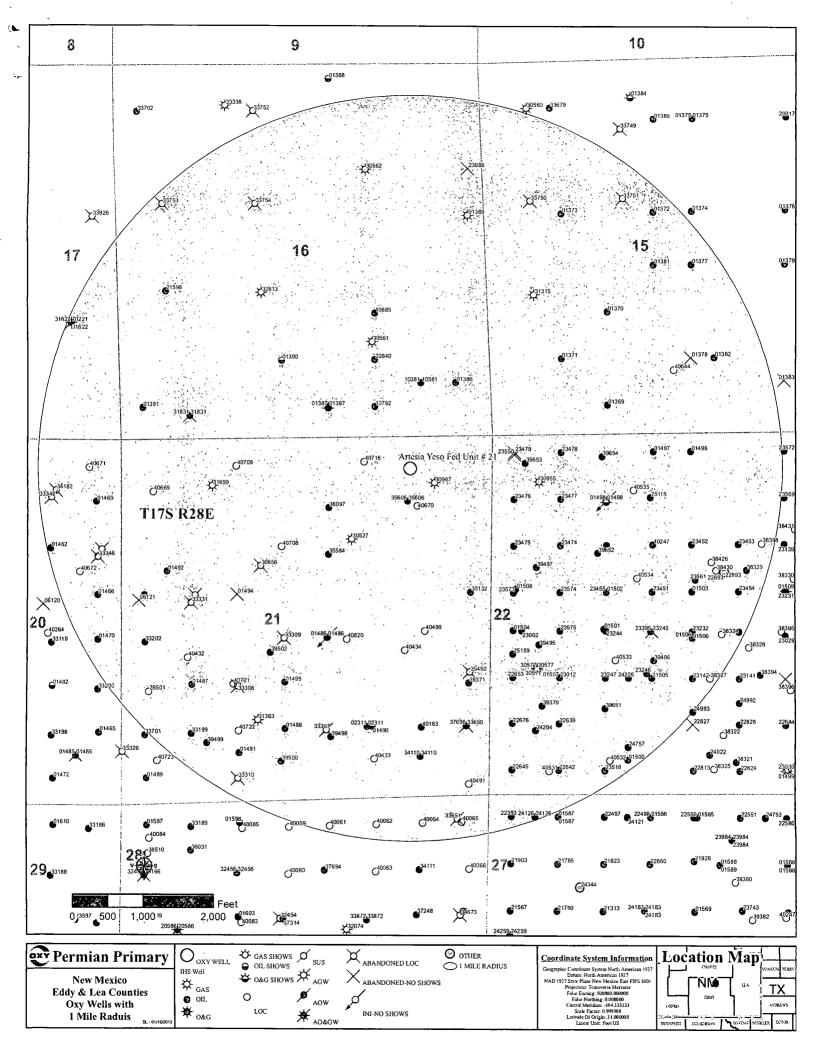
Thiany Tono

TITLE:

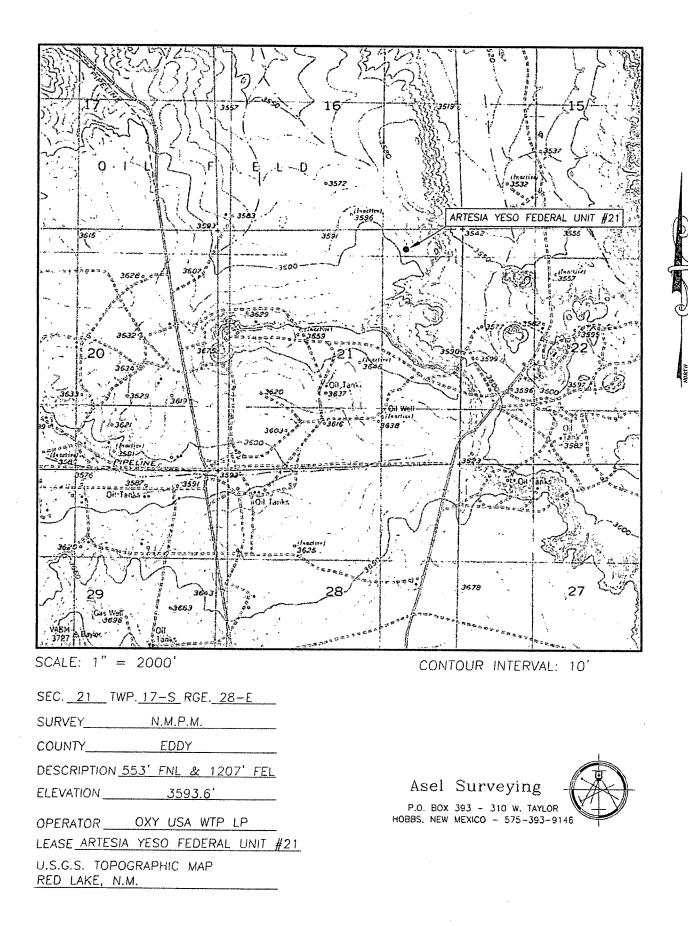
DATE:

January 2, 2013

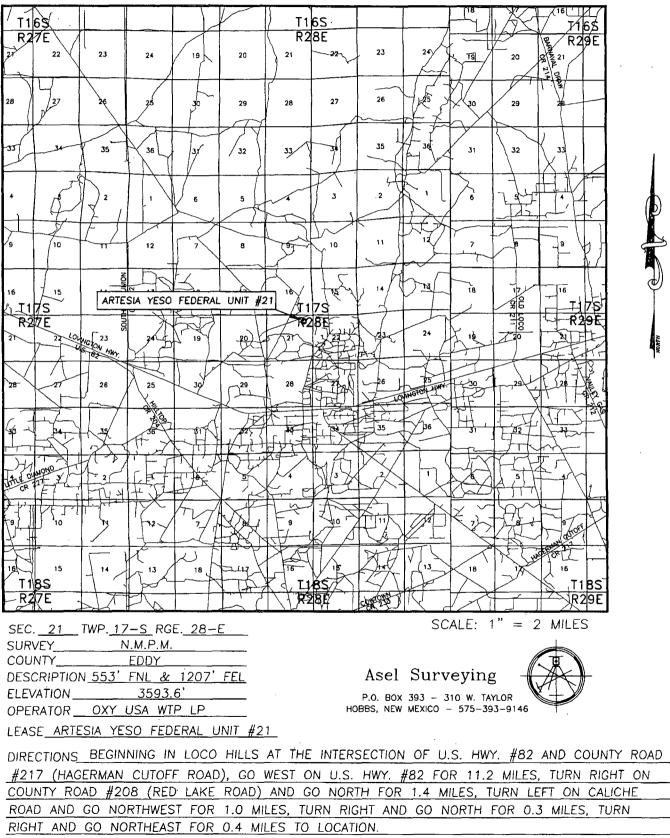
Land Negotiator

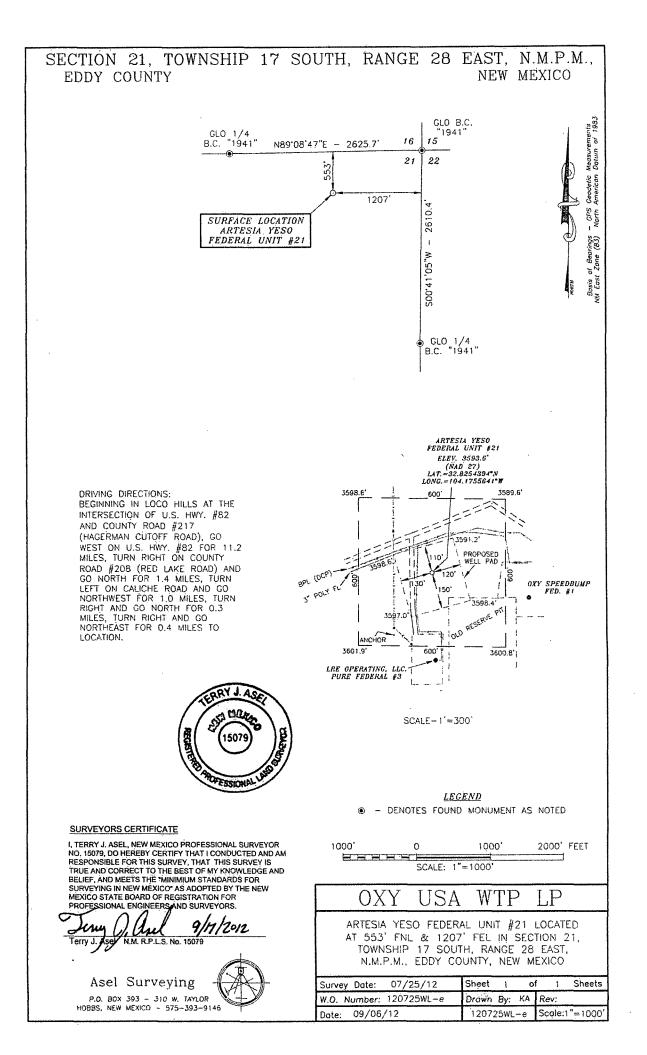


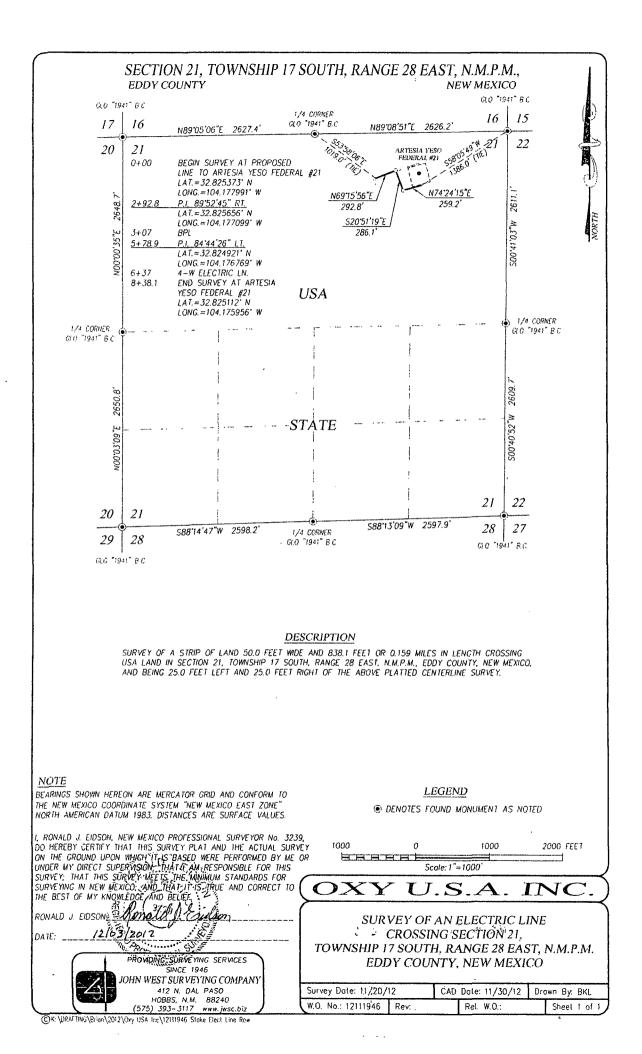
LOCATION VERIFICATION MAP

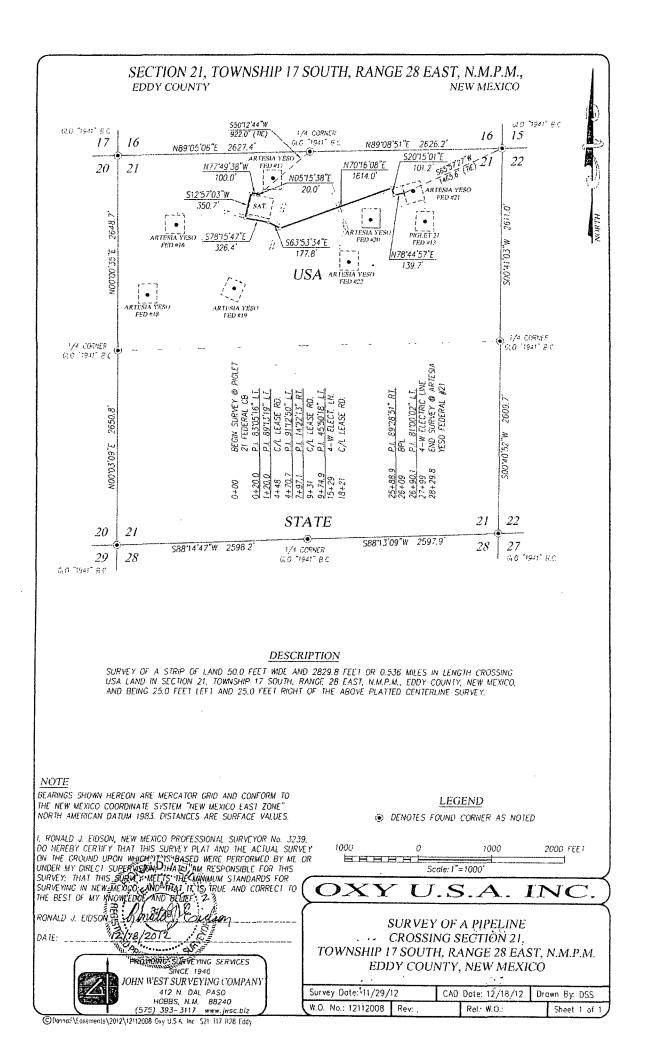


VICINITY MAP

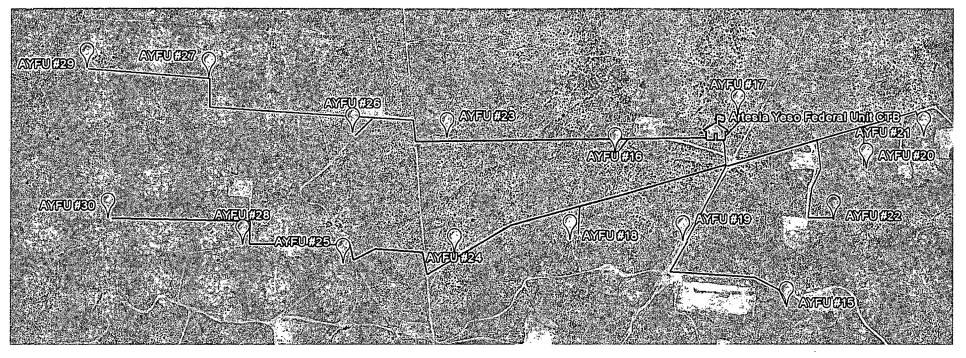






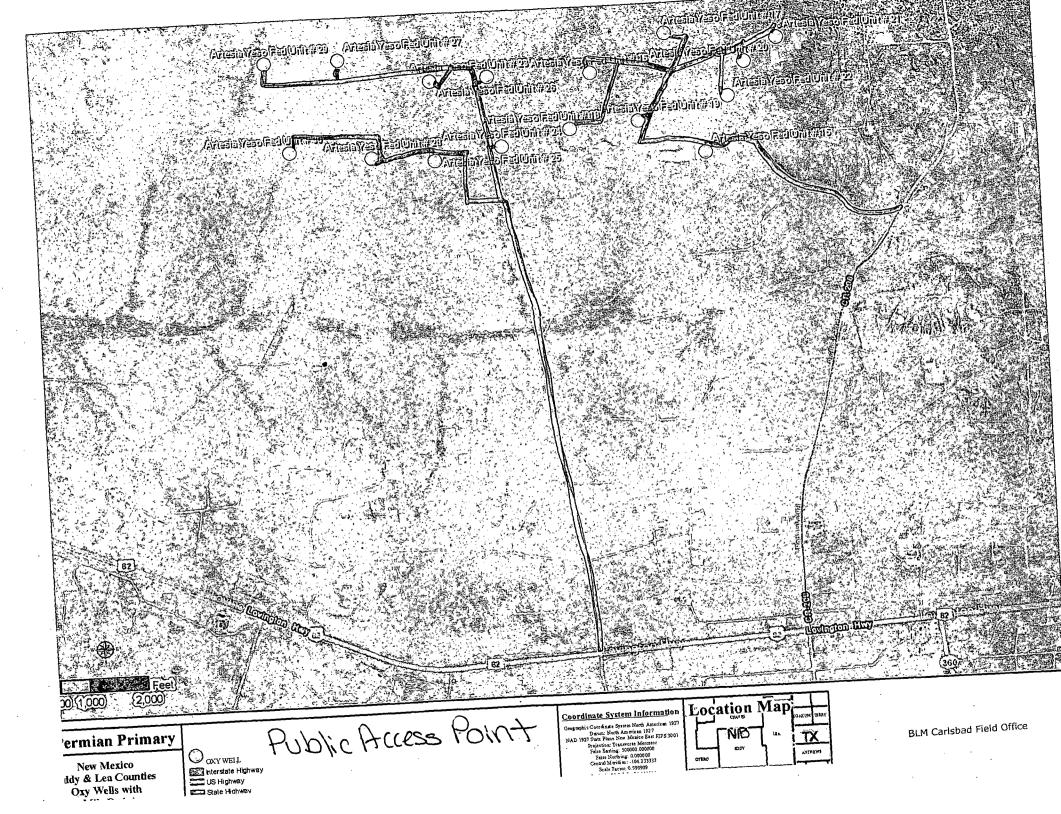


Artesia Yeso Federal Unit Wells Flowline Routing



4" SDR 7 polyethylene production flowline (oil, gas and produced water) to be laid on surface from all the Artesia Yeso Federal Unit Central Tank Battery. Operating pressure < 125 psig.

Artesia Yeso Federal Unit 15: 3,000ft Artesia Yeso Federal Unit 16: 1,200ft Artesia Yeso Federal Unit 17: 400ft Artesia Yeso Federal Unit 18: 2,250ft Artesia Yeso Federal Unit 19: 1,250ft Artesia Yeso Federal Unit 20: 2,250ft Artesia Yeso Federal Unit 21: 2,700ft Artesia Yeso Federal Unit 22: 2,500ft Artesia Yeso Federal Unit 23: 3,000ft Artesia Yeso Federal Unit 24: 3,350ft Artesia Yeso Federal Unit 25: 4,700ft Artesia Yeso Federal Unit 26: 4,150ft Artesia Yeso Federal Unit 27: 5,950ft Artesia Yeso Federal Unit 28: 6,000ft Artesia Yeso Federal Unit 29: 7,250ft Artesia Yeso Federal Unit 30: 7,650ft



APD DATA – DRILLING PLAN –

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: Artesia Yeso Federal Unit 21

STATE: NM COUNTY: Eddy

SURFACE LOCATION: 553' FNL & 1207' FEL, Sec 21, T 17S, R 28E

C-102 PLAT APPROX GR ELEV: 3593.6

EST KB ELEV: 3607.6' (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 \pm 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 |
|----------|--------|----|------|-----------|------|-------------------------|--------------------------|-------------------|------------|---------------|------------|-------------|-----------|
| 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 ± 5100 MD(/5100) TVP in a 7.875" hole filled 9.6 ppg mud

| | | | | | | | Coll | Burst | | | | | | |
|-------------|-----|--------|----|------|-----------|------|-------------------|------------------|---------|-------|-------|------|-------|------|
| 1 | | | | | Condition | | Rating | Rating | Jt Str | ID | Drift | SF | SF | SF |
| Inter | val | Length | Wt | Gr | | Cplg | (psi) . | . <u>(psi)</u> , | (M-lbs) | (in) | (in) | Coll | Burst | Ten |
| 0'- 5100 |), | 5100' | 17 | L-80 | · New | LT&C | 6290 [°] | 7740 | 338 | 4.892 | 4.767 | 1.93 | 2.61 | 4.57 |

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

APD DATA - DRILLING PLAN -

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: Artesia Yeso Federal Unit 21

STATE: NM COUNTY: Eddy

SURFACE LOCATION: 553' FNL & 1207' FEL, Sec 21, T 17S, R 28E

C-102 PLAT APPROX GR ELEV: 3593.6

EST KB ELEV: 3607.6' (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 | 100 / | Fresh Water |
| Top of Salt | 310/ | |
| Base of Salt | 3,90 | - |
| 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. Fresh Water formation is outcropping and will be covered with the 16" conductor pipe, which will be set at 80' prior to spud.

GREATEST PROJECTED TD 5100' MD / 5100' TVD

OBJECTIVE: Yeso

3. CASING PROGRAM

Surface Casing: 8.6257 casing set at \pm 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 |
|----------|--------|----|------|-----------|------|-------------------------|--------------------------|-------------------|------------|---------------|------------|-------------|-----------|
| 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 ± 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 | 1.93 | 2.61 | 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 (Ligh 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" 24# J-55 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.

ee CO

SecOA

Manufacturer: <u>Hebei Ouya Ltd.</u> Serial Number: <u>1642343-04</u> Length: <u>39</u>" Size: <u>3</u>" Ends: <u>flanges</u> WP rating: <u>3000 psi</u> Anchors required by manufacturer: <u>No</u> 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. <u>If Hydrogen Sulfide is encountered</u>, 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. See COA

9. POTENTIAL HAZARDS:

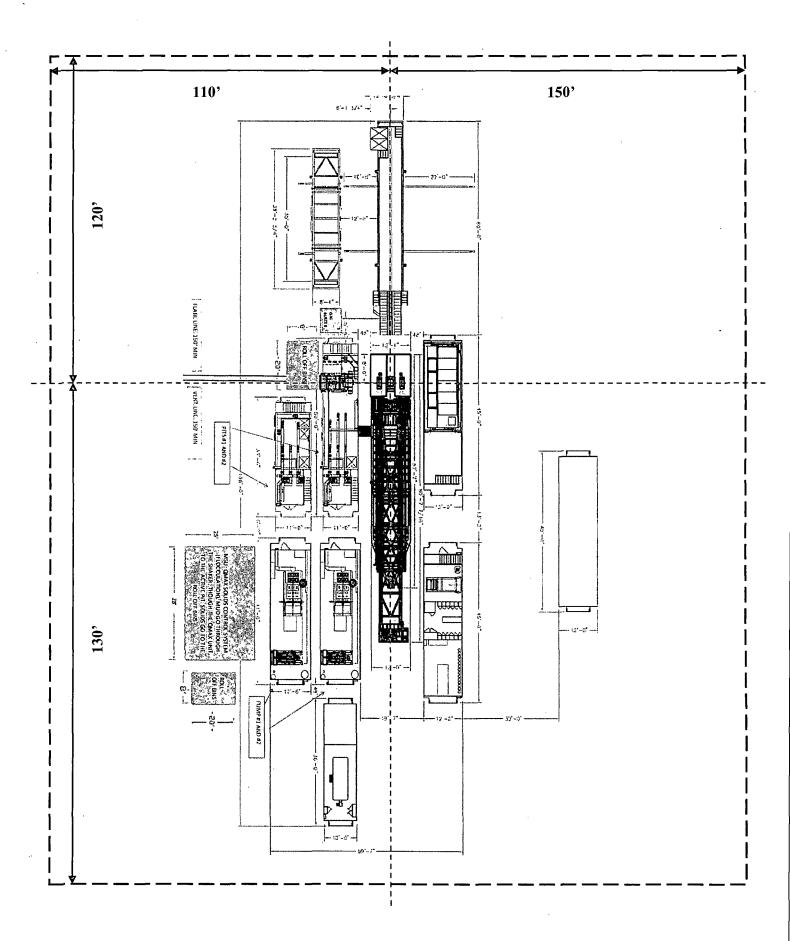
- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with 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

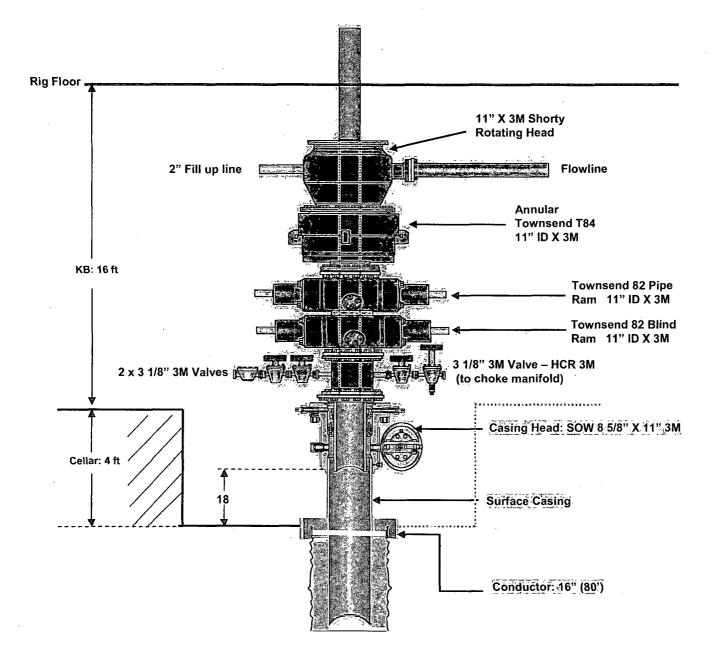
Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 15 days. If production casing is run, then an additional 30 days 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:

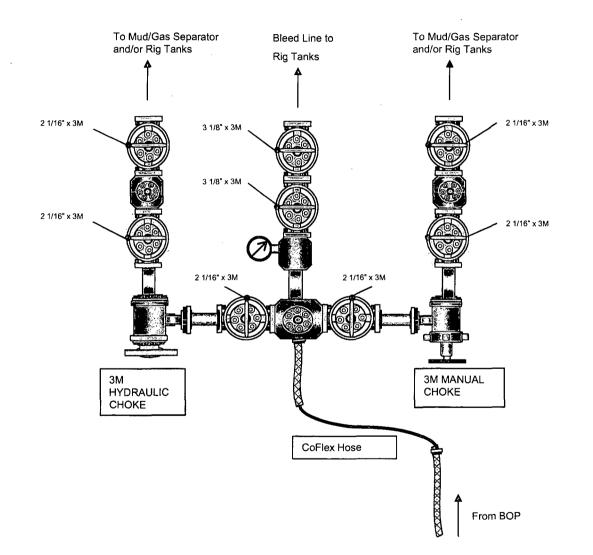
| Name | Title | Office Phone |
|-------------------|------------------------------|---------------------|
| Anthony Tschacher | Drilling Engineer | 713-985-6949 |
| Sebastian Millan | Drilling Engineer Supervisor | 713-350-4950 |
| Roger Allen | Drilling Superintendent | 713-215-7617 |
| Douglas Chester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

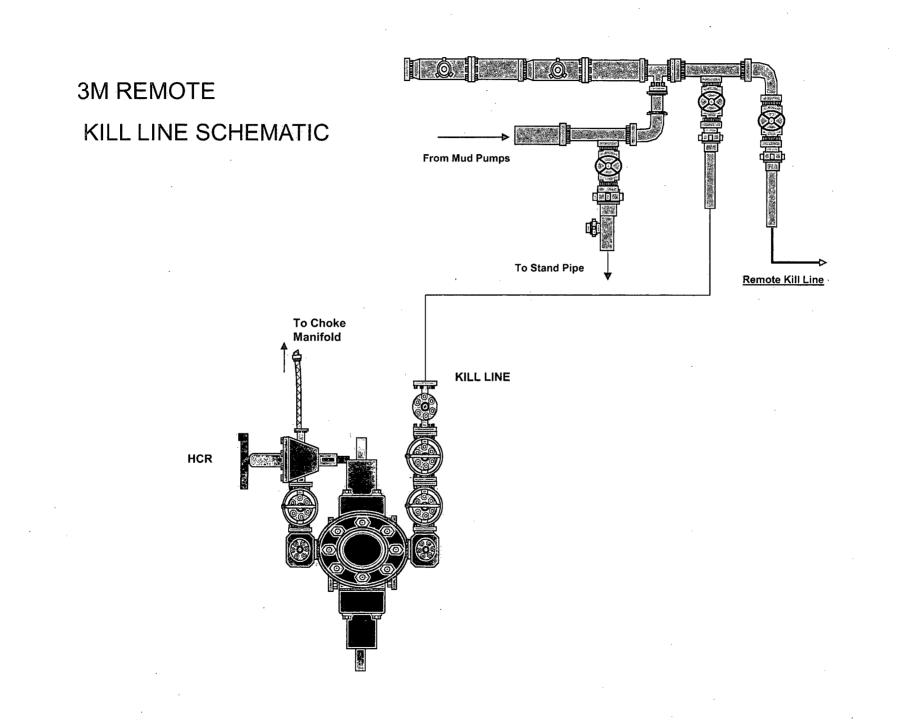


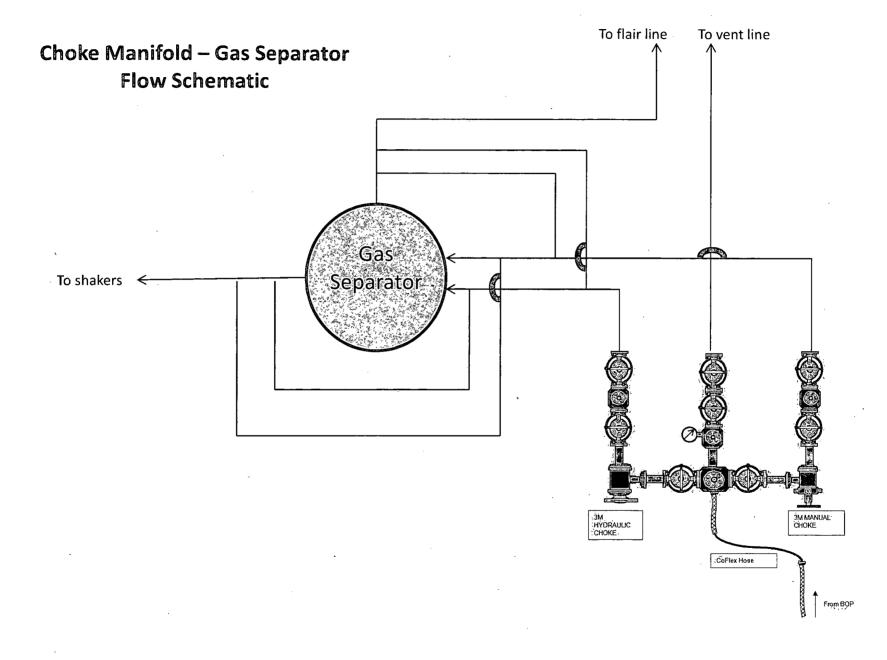
- 1 -



3M CHOKE MANIFOLD CONFIGURATION



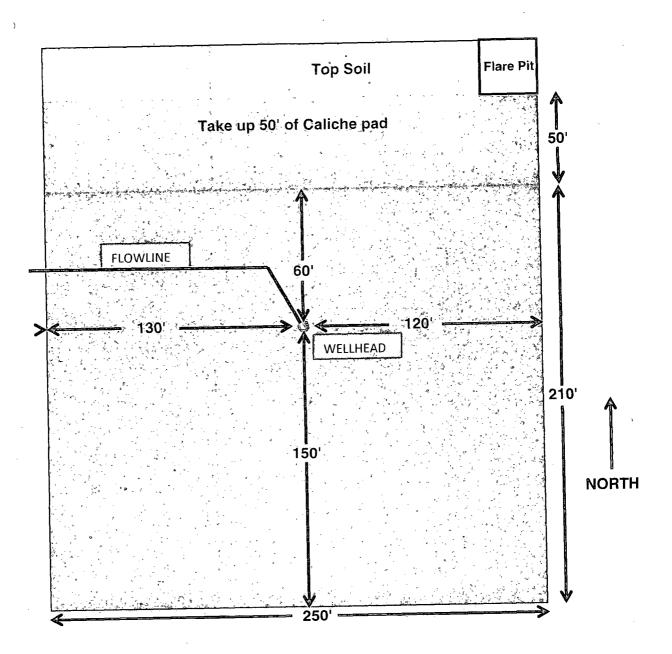




MAUFUND ブレビロコンロギン コンワー ひをがつる 9727 47th Ave Edmonton, AB T6E 5M7 780-437-2630 Certificate of Compliance 2011-12-01 REDL-SLIM-48x39IN-FIG1502 1642343-04 Date: Test#: Tested by: Dave Penner Item Desc: Asset #: Initial Location: Site\2714 5 ST Chip ID: NOCHIPID Commercial Solutions INC (103867) Witnessed by: Ben Ahlskog Owner: Item Attributes: Serial Number Default Hose Certification Test Notes 1642343-04 Hose passed all visual and physical HEBEI OUYA LTD. SLIMHOLE inspections. Manufacturer Continuity Test Results Continuity Ohm Reading Certification Result Application Group REDL-SLIMHOLE-3000-48 Mödel PÁSS Date of Mfr 2011-12-01 Date Installed Generate Alert? Locn Desc. Comments Inside Dia. 3 IN TimeStamp 2011-12-01 12:54:14 -07:00 Length 39 IN Working Pressure, 3000 PSI 4500 PSI Test Pressure Coupling A Attach Method A 948HX+488/FIG1502-HU-48 Test # "Tex(?", 2011-11-16 Swaged Attach Method A Coupling A Model Coupling B Attach Method B Coupling B Model Distributor Ref # 5000 GEORGE MYER/KEMPER REBUILT 948HX+48B/FIG1502-HU-48 4000 Swaged GEORGE MYER/KEMPER REBUILT Pressure (psi) 3000 1642343-04 Factory Ref # 2000 EndUser Ref # BUILT ON PO: JON Notes ROCO Ð Time (mini lés)

5. T





Flowline to Artesia Yeso Federal Unit CTB 4" SDR 7 Poly Pipeline with max pressure <125psi

SURFACE USE PLAN OF OPERATIONS

| Operator Name/Number: | OXY USA WTP LIMITED PARTNERSHIP - 192463 | |
|-----------------------|--|---|
| Lease Name/Number: | ARTESIA YESO FEDERAL UNIT #21 | |
| Pool Name/Number: | ARTESIA; GLORIETA-YESO (96830) | |
| Surface Location: | A; SEC 21, T17S, R28E; 553' FNL & 1207' FEL; EDDY COUNTY, NM | |
| Bottom Hole Location: | A; SEC 21 A; SEC 21, T17S, R28E; 553' FNL & 1207' FEL; EDDY COUNTY, NM | , |

1. Existing Roads

- a. A copy of a USGS "_RED LAKE_, NM" quadrangle map is attached showing the proposed location. The well location is spotted on this map, which shows the existing road system.
- b. The well was staked by _Terry J Asel_Certificate No. _15079__ on _07-25-2012_, certified 09-17-2012_.
- c. Directions to Location:

BEGINNING IN LOCO HILLS AT THE INTERSECTION OF U.S. HWY. #82 AND COUNTY ROAD #217 (HAGERMAN CUTOFF ROAD), GO WEST ON U.S. HWY. #82 FOR 11.2 MILES, TURN RIGHT ON COUNTY ROAD #208 (RED LAKE ROAD) AND GO NORTH FOR 1.4 MILES, TURN LEFT ON CALICHE ROAD AND GO NORTHWEST FOR 1.0 MILES, TURN RIGHT AND GO NORTH FOR 0.3 MILES, TURN RIGHT AND GO NORTHEAST FOR 0.4 MILES TO LOCATION.

2. New or Reconstructed Access Roads:

- a. A new access road will be built. The access road will run approximately ____0' _____ from an existing road to the location.
- b. The maximum width of the road will be 15'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. No turnouts are planned.
- e. Blade, water & repair existing caliche road as required/needed.

3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on attached plat.

4. Location of Existing and/or Proposed Production Facilities.

a. In the event the well is found productive, the production would be sent to the central tank battery located on the ARTESIA YESO FEDERAL UNIT CTB. The propose lines will be approximately 2700' of 4" SDR 7 Polethylene laid on surface from well the CTB and will be operating <125 psig. See ... proposed Production Facilities Layout diagram.

LB 3-15-2013

b. The proposed route for the electric line has been surveyed and is attached.

c. All flowlines will adhere to API Standards.

5. Location and types of Water Supply.

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads.

6. Construction Materials:

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility, see C-144 CLEZ.
 - 1. Solids CONTROL RECOVERY INC R9166
 - 2. Liquids SUNDANCE LANDFILL NM-01-003
- b. All trash, junk, and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies:
 - 1. Solids CONTROL RECOVERY INC R9166
 - 2. Liquids SUNDANCE LANDFILL NM-01-003

8. Ancillary Facilities: None needed

9. Well Site Layout

See attached for the proposed well site layout with dimensions of the pad layout and equipment location.

V-Door EAST CL Tanks 40' X 75' Pad 260' X 250'

10. Plans for Surface Reclamation:

 After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography. b. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

11. Surface Ownership

The surface is owned by the U.S. Government and is administered by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: _____ Bogle LTD Co.

They will be notified of our intention to drill prior to any activity.

12. Other Information

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial. native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of the proposed well site.
- d. A Cultural Resources Examination will be completed by Boone Archaeological Services, LLC and forwarded to the BLM office in Carlsbad, NM.

13. Bond Coverage:

Bond Coverage is Nationwide Bond No. ____ ESB000226

Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below.

Kim Moore Production Coordinator 1017 W. Stanolind Rd. Hobbs, NM 88240 Office Phone: 575-397-8236 Cellular: 575-706-1219

Allan Wells Drilling Superintendent P.O. Box 4294 Houston, TX 77210 Office Phone: 713-350-4810 Cellular: 713-569-8697

Juan Pinzon Drilling Engineering Supervisor P.O. Box 4294 Houston, TX 77210 Office Phone: 713-366-5058 Cellular: 713-503-3962 Charles Wagner Manager Field Operations 1502 West Commerce Dr. Carlsbad, NM 88220 Office Phone: 575-628-4151 Cellular: 575-725-8306

Calvin (Dusty) Weaver Operation Specialist P.O. Box 50250 Midland, TX 79710 Office Phone: 432-685-5723 Cellular: 806-893-3067

Carlos Mercado Drilling Engineer P.O. Box 4294 Houston, TX 77210 Office Phone: 713-366-5418 Cellular: 281-455-3481

PECOS DISTRICT CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | OXY USA WTP LP |
|-----------------------|-------------------------------------|
| LEASE NO.: | NMNM-048344 |
| WELL NAME & NO.: | Artesia Yeso Federal Unit 21 |
| SURFACE HOLE FOOTAGE: | 0553' FNL & 1207' FEL |
| LOCATION: | Section 21, T. 17 S., R 28 E., NMPM |
| COUNTY: | Eddy County, New Mexico |

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions Permit Expiration Archaeology, Paleontology, and Historical Sites **Noxious Weeds** Special Requirements Cave/Karst **Commercial Well Determination** Unit Well Sign Specs **Construction** Notification Topsoil Closed Loop System Federal Mineral Material Pits Well Pads Roads **Road Section Diagram** Drilling High Cave/Karst Logging Requirements Waste Material and Fluids **Production** (Post Drilling) Well Structures & Facilities Pipelines **Electric Lines** Interim Reclamation Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad. All sides will be bermed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

<u>Cave/Karst Subsurface Mitigation</u>

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of

surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

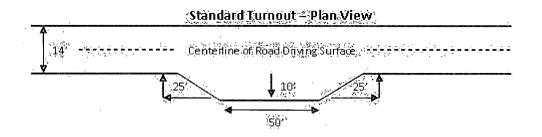
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

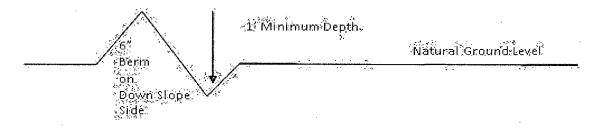


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\frac{400'}{4\%}$ + 100' = 200' lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

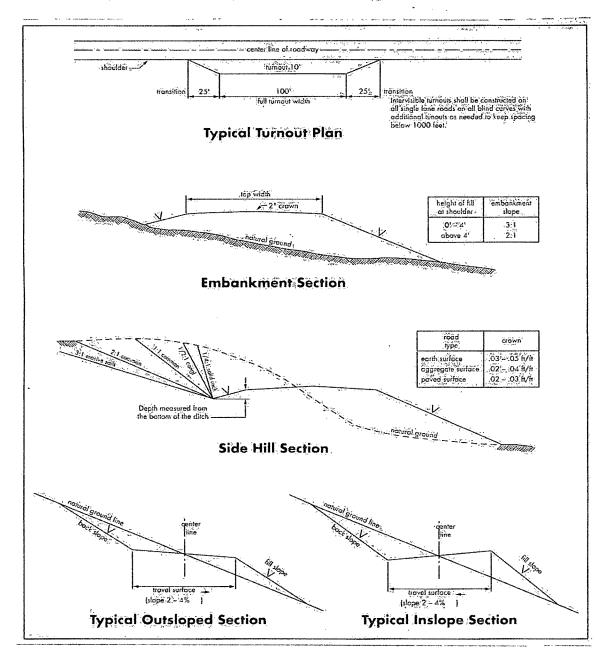
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 - Cross Sections and Plans For Typical Road Sections



I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water and brine flows in the Salado and Artesia Groups. Possibility of lost circulation in the Tansil, Grayburg, and San Andres formations.

HIGH CAVE/KARST – CONTINGENCY CASING WILL BE REQUIRED IF LOST CIRCULATION OCCURS WHILE DRILLING THE SURFACE HOLE. THE SURFACE HOLE WILL HAVE TO BE REAMED AND A LARGER CASING INSTALLED. IF LOST CIRCULATION OCCURS WHILE DRILLING THE 7-7/8" HOLE, THE CEMENT PROGRAM FOR THE 5-1/2" CASING WILL NEED TO BE MODIFIED AND <u>THE BLM IS TO BE CONTACTED PRIOR TO</u> <u>RUNNING THE CASING.</u> A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH THEREFORE, ONE INCH OPERATIONS WILL NOT BE PERMITTED. A DV TOOL WILL BE REQUIRED.

- 1. The **8-5/8** inch surface casing shall be set at approximately **400** feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Cement to surface. If cement does not circulate, contact the appropriate BLM office.

3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.

- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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II. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the application (Grant, Sundry Notice, APD) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM , personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government. 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-

way width of <u>20</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.

9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the

holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the approved application and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on

facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Power lines, " Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction and no further construction will be done until clearance has been issued by the Authorized Officer. Special restoration stipulations or realignment may be required.
- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes with native soil from the removed poles.

III. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for

production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

| Species | l <u>b/acre</u> |
|--|-----------------|
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sand love grass (Eragrostis trichodes) | 1.0 |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

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