

| | | | | | |
|-----------------|----------|-----------------------------|------------------|-------------------------|--------------------|
| DATE IN 1/31/11 | SUSPENSE | ENGINEER <i>[Signature]</i> | LOGGED IN 2.1.11 | TYPE <i>[Signature]</i> | APP NO. 1103232324 |
|-----------------|----------|-----------------------------|------------------|-------------------------|--------------------|

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



E06 Res.
RECEIVED OGD

ADMINISTRATIVE APPLICATION CHECKLIST

ELK 14 WA 11/11/11 State # 30-075-38388

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☒ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

STAN WAGNER

Print or Type Name

Signature

Stan Wagner

REGULATORY ANALYST

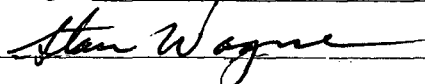
Title

1/27/2011

Date

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: EOG Resources, Inc.
ADDRESS: P.O. Box 2267 Midland, Texas 79702
CONTACT PARTY: Stan Wagner PHONE: 432-686-3689
- 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? Yes X No
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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. 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.
- NAME: Stan Wagner TITLE: Regulatory Analyst
SIGNATURE:  DATE: 1/27/11
E-MAIL ADDRESS: _____
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

INJECTION WELL DATA SHEET

OPERATOR: EOG Resources, Inc.

WELL NAME & NUMBER: Elk Wallow 11 State 5

WELL LOCATION: 1600' FSL & 1000' FEL

Sec 11, T25S, R29E

UNIT LETTER I

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Bit Size: 17-1/2"

3/8", 54.5#, J-55, STC 0' - 625'

Hole Size: 17-1/2" Casing Size: 13-3/8"

Cemented with: 525 sx Class C sx. or ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Bit Size: 12-1/4"

3-5/8", 40#, J-55, LTC 0' - 3,200'

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 750 sx Class C sx. or ft³

Top of Cement: Surface Method Determined: Circulation

Production Casing

Cherry Canyon 4,100' - 4,800'

Cement Plug 4,800' - 6,500'

Cut & Recover 4-1/2" Casing @ ±5,500'

4-1/2" CIBP @ ±6,500'

Hole Size: Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

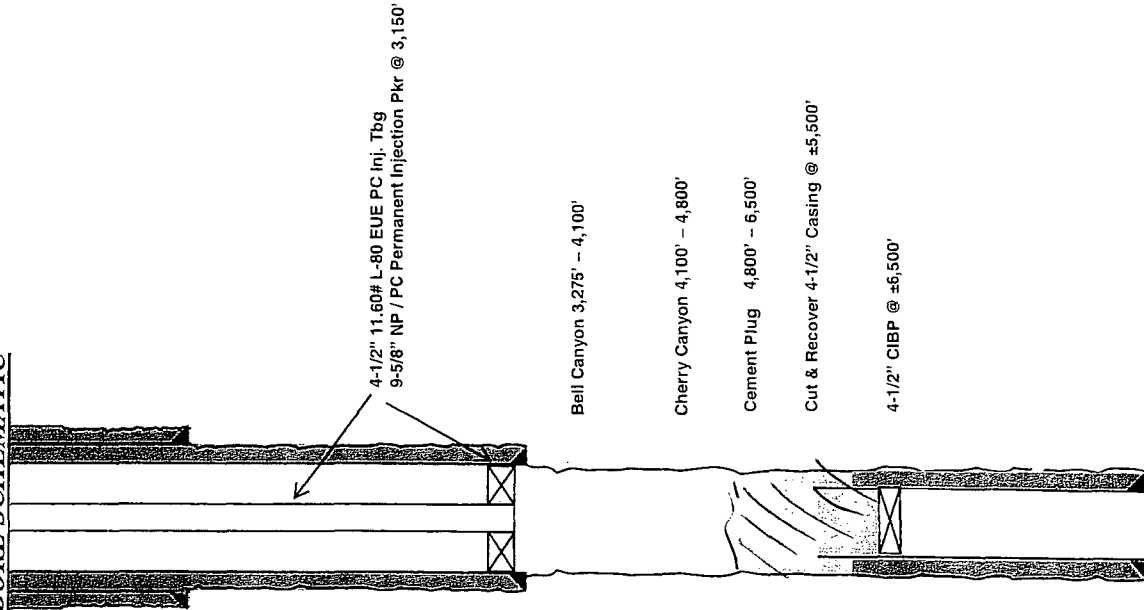
Total Depth: 8000' feet to 4800'

Injection Interval

Bit Size: 8-3/4"

Used 4-1/2" 11.60# L-80 BTC 0' - 8,000'

(Perforated or Open Hole; indicate which)



PTD -8,000'

INJECTION WELL DATA SHEET

Tubing Size: 4-1/2" 11.6# L-80 Lining Material: Plastic Coated

Type of Packer: 9-5/8" Plastic Coated / Nickel Plated Injection Packer

Packer Setting Depth: 3150'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? X Yes No
 If no, for what purpose was the well originally drilled? _____
2. Name of the Injection Formation: Delaware
3. Name of Field or Pool (if applicable): Corral Canyon; Delaware, West
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) used. No
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
Delaware - Lower Cherry Canyon : 5225 - 5275'
Bone Spring - (Avalon / Leonard Shale) : 7150 - 7300'
Morrow: 13600 - 13700'

APPLICATION FOR AUTHORIZATION TO INJECT
ELK WALLOW 11 STATE 5

VII. PROPOSED OPERATION

- (1) Proposed Average Daily Rate and Volume: 7000 BWIPD
Proposed Maximum Daily Rate and Volume: 10000 BWIPD
- (2) Open or Closed System: Closed
- (3) Proposed Average Injection Surface Pressure: 500 psi
Proposed Maximum Injection Surface Pressure: 1000 psi
Note: Original Delaware formation BHP 9500 psi.
- (4) Produced Bone Spring Formation Water (see attached analysis)
- (5) N/A

VIII. GEOLOGIC DATA ON INJECTION ZONE

Injection Zone: Delaware Sandstone ~~Perfs~~ 3200' – 4800'
Lithologic Detail: Fine grain sandstone
Geological Name: Delaware Mountain Group (Guadalupian)
Thickness: Delaware – 3730'
Depth: Top of Delaware at 3200'
Underground Sources of Drinking Water:
Fresh water sources in the immediate area have been encountered in aquifers above 250'. These aquifers are found in the Pliocene age Ogallala and Pleistocene age alluvial sediments and consist for the most part of alternating calcareous silt, fine sand and clay. There are no other sources of fresh water underlying the injection interval.

IX. PROPOSED STIMULATION

None at this time

X. LOGGING AND TESTING DATA ON INJECTION WELL

Logs will be submitted upon completion of drilling operations.

XI. CHEMICAL ANALYSIS OF WATER FROM FRESH WATER WELLS
WITHIN ONE MILE OF THE INJECTION WELL

A review of the State Engineers records shows 2 fresh water wells within one mile of the injection well.

XII. Available geologic and engineering data has been examined and no evidence has been found of open faults or any other hydrologic connection between the injection zone and any underground source of drinking water.

XIII. See attached "Proof of Notice".

Surface Owner:

State of New Mexico
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504-1148

Operators within a ½ mile radius of the proposed injector:

Lime Rock Resources A, L.P.
1111 Bagby Street, Ste. 4600
Houston, TX 77002

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Friday, January 07, 2011 10:00 AM
To: 'Stan_Wagner@eogresources.com'
Subject: RE: Elk Wallow 11 State #5 Monitor / SWD

Stan:
Thanks for sending...

Happy New Year

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

From: Stan_Wagner@eogresources.com [mailto:Stan_Wagner@eogresources.com]
Sent: Friday, January 07, 2011 9:36 AM
To: Jones, William V., EMNRD
Subject: Fw: Elk Wallow 11 State #5 Monitor / SWD

Will, see the attached so you won't waste a lot of time on this application. We will be resubmitting in the near future.

Thanks,
Stan

----- Forwarded by Stan Wagner/EOGResources on 01/07/2011 10:33 AM -----

From: Ron Willett/EOGResources
Date: 01/07/2011 10:28 AM
Subject: Elk Wallow 11 State #5 Monitor / SWD

1600
I spoke with Brent Sonnier, with Oxy this morning, and informed him of our intent to move the Elk Wallow #5 Monitor / SWD location south to 1900' FSL & 1000' FEL. The new location will be outside of the 1/2 mile radius of the OXY Delaware producer, Coral Fly State #1. Brent indicated that they wouldn't protest the new proposed location. Thanks, Donny and Charlie, for your help.

Ron M. Willett | EOG Resources, Inc. | Completions Engineering Advisor | 432-686-3775 (Office) | Cell Phone: 1-432-230-2135; ron_willett@eogresources.com

"THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL(S) TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PROPRIETARY, CONFIDENTIAL AND/OR OTHERWISE PROTECTED FROM PUBLIC OR OTHER DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient, or an agent responsible for delivering the message to the intended recipient, you are hereby notified that any review by your or other persons, any dissemination by you to other persons or any copying of this communication is strictly prohibited. If you have

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103

June 19, 2008

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

| |
|---|
| WELL API NO. 30-015- 38388 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. |
| 7. Lease Name or Unit Agreement Name: Elk Wallow 11 State |
| 8. Well Number 5 |
| 9. OGRID Number 7377 ✓ |
| 10. Pool name or Wildcat Pierce Crossing; Bone Spring, East 96473 ✓ |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3110' GR |

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

| |
|--|
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD |
| 2. Name of Operator EOG Resources, Inc. ✓ |
| 3. Address of Operator P.O. Box 2267 Midland, TX 79702 |
| 4. Well Location Unit Letter I : 1600 feet from the South line and 1000 feet from the East line Section 11 Township 25S Range 29E NMPM County Eddy |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3110' GR |

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

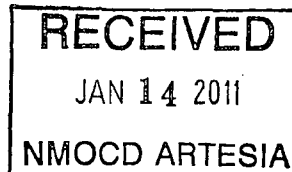
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources, Inc. requests the approved APD surface location be moved to the following location:
1600' FSL & 1000' FEL, U/L I, Sec 11, T25S, R29E Eddy County NM.

C-102 attached.



Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 1/12/11

Type or print name Stan Wagner E-mail address: _____ PHONE 432-686-3689

For State Use Only

APPROVED BY Jacqueline R TITLE Geologist DATE 1/21/2011
Conditions of Approval (if any): _____

NG

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|------------------------------------|---|---|
| API Number 30-015- 38348 | Pool Code 96473 | Pool Name Pierce Crossing; Bone Spring, East |
| Property Code 38036 | Property Name ELK WALLOW "11" STATE | Well Number 5 |
| OGRID No. 7377 | Operator Name EOG RESOURCES, INC. | Elevation 3110.9' |

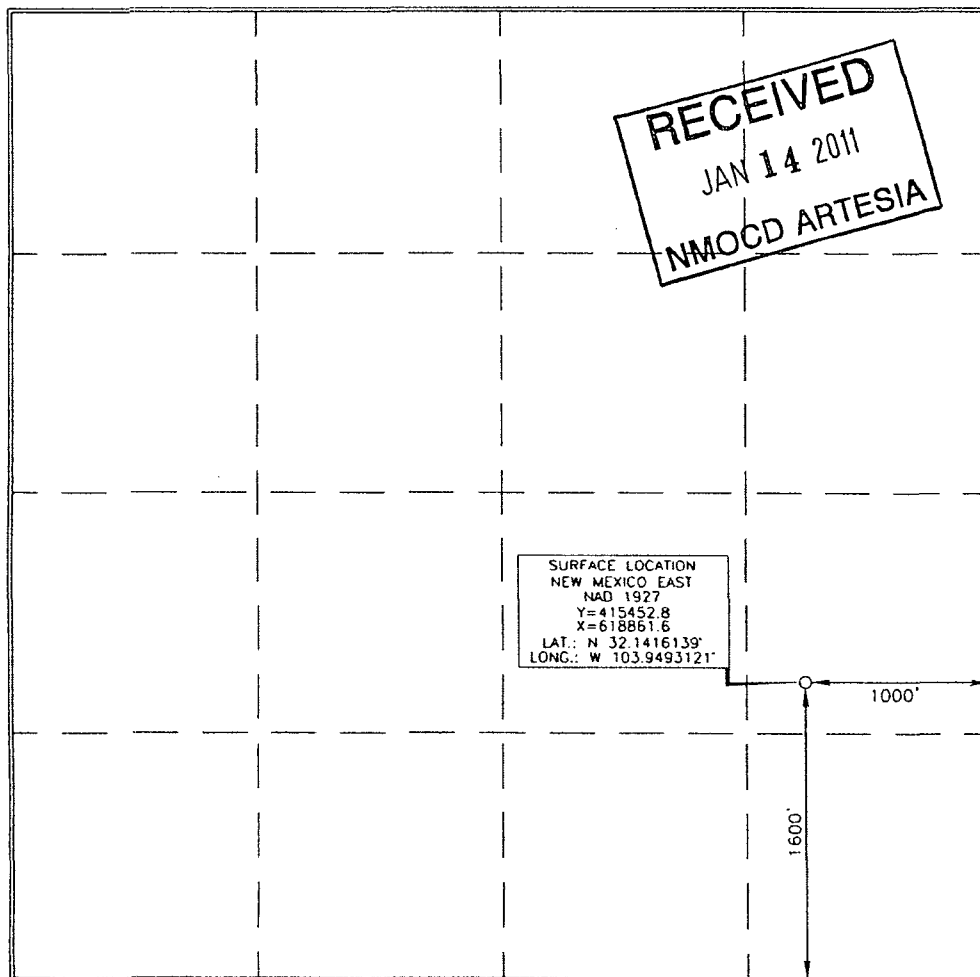
Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------------------|---------|---------------|------------------|---------------|----------------|--------|
| I | 11 | 25 SOUTH | 29 EAST, N.M.P.M. | | 1600' | SOUTH | 1000' | EAST | EDDY |

Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|------------------------|---------|-----------------|--------------------|-----------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| Dedicated Acres SWD | | 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.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 1/12/11
Signature Date

Stan Wagner

Printed Name

SURVEYOR CERTIFICATION

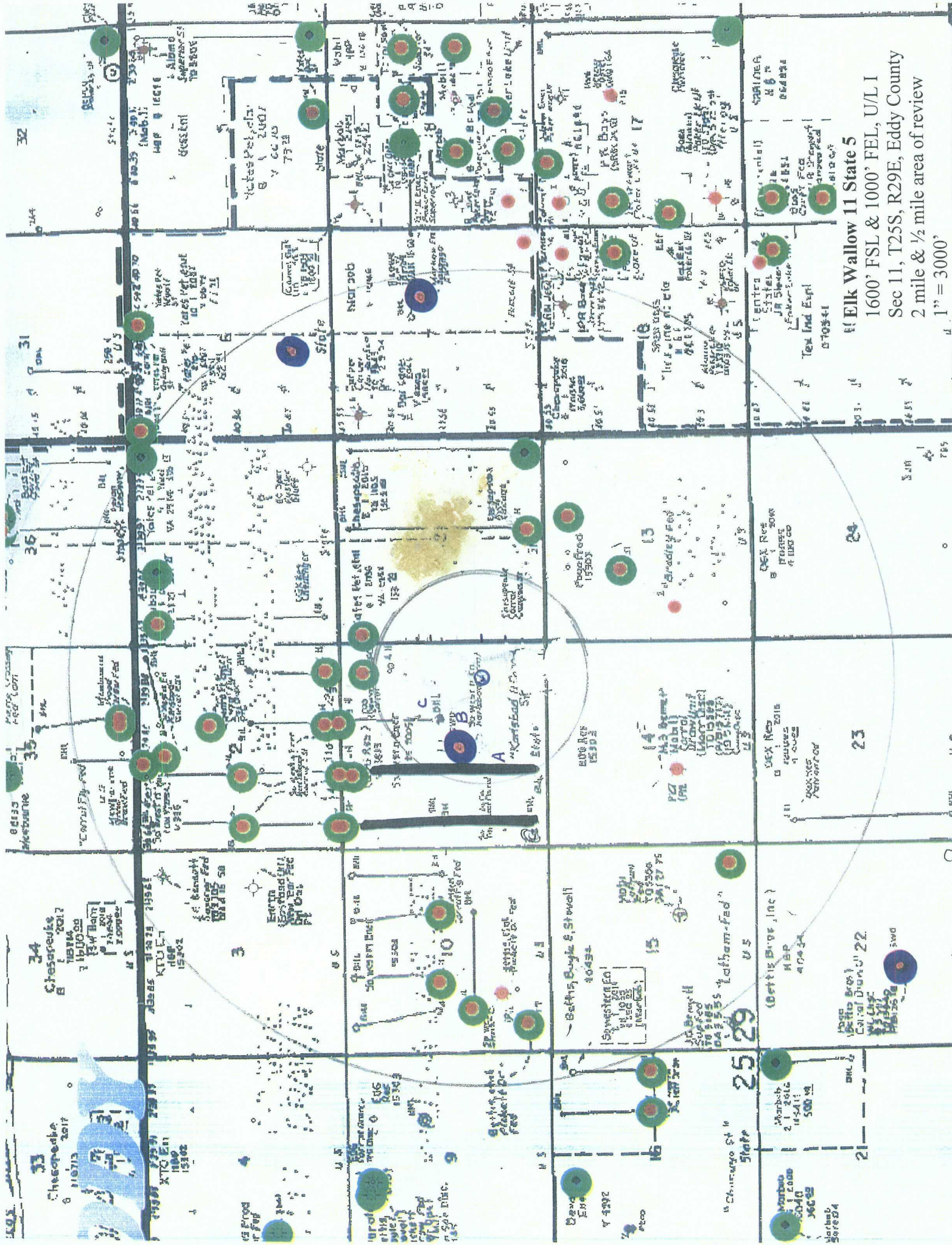
I hereby certify that the well location shown on this plat was obtained from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my belief.

Terry J. Abel 1/11/2011
Date of Survey

Terry J. Abel 1/11/2011
Signature and Seal of Professional Surveyor

Certificate Number 15079

WO# 101118WL-a (Rev. A) (KA)



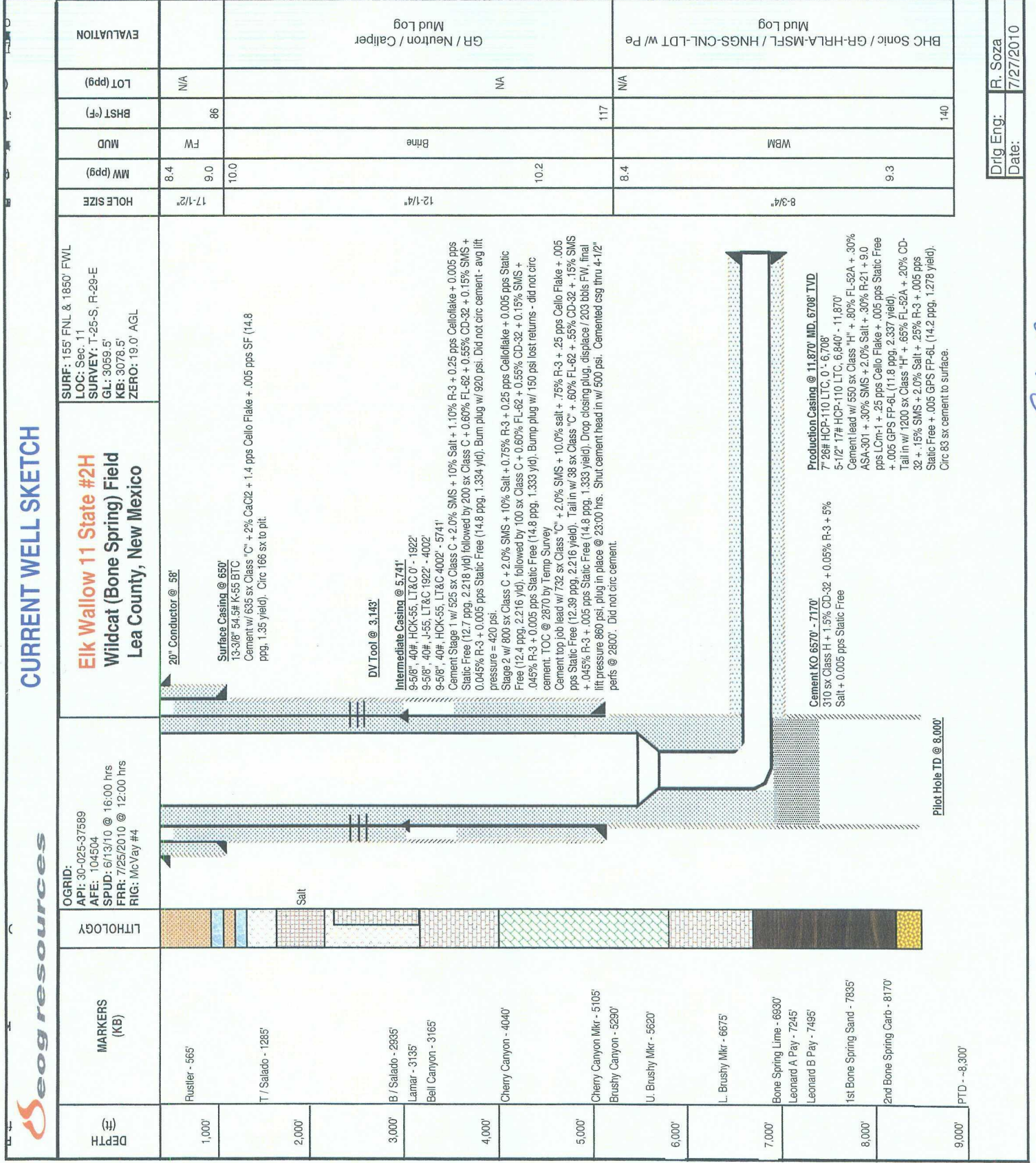
Elk Wallow 11 State 5
1600' FSL & 1000' FEL, U/L I
Sec 11, T25S, R29E, Eddy County
2 mile & 1/2 mile area of review
1" = 3000'

EOG Resources, Inc
1/2 Mile Area of Review
Application for Authorization to Inject Elk Wallow 11 State 5

| Operator | Lease/Well | Status | Location | Spud Date | TMD | Size | Surface Casing Depth | Cement | Size | Production Casing Depth | Cement | Producing Perforations |
|--------------|-----------------------------|---------------|--------------------|-----------|--------|---------|-------------------------|----------------|-------------|----------------------------|---------------------|------------------------|
| A. EOG | Elk Wallow 11 State 2H | Oil Producing | Sec 11, T25S, R29E | 6/13/2010 | 11873' | 13-3/8" | 650' | 635 sx Class C | 7" & 5-1/2" | 11870' | 1750 sx Class H | 7800' - 11695' |
| B. Lime Rock | Karlsbad Corral SWD 1 | Active SWD | Sec 11, T25S, R29E | 1/31/2007 | 4000' | 9-5/8" | 766' | 550 sx Class C | 5-1/2" | 3993' | 1020 sx Class C | 3652' - 3921' |
| C. Lime Rock | Karlsbad Corral 11 State 3H | Oil Producing | Sec 11, T25S, R29E | 2/8/2006 | 8685' | 9-5/8" | 775' | 500 sx Class C | 5-1/2" | 8685' | 850 sx H, 1300 sx C | 5926' - 8510' |

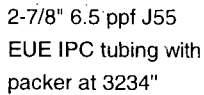
only AOR well

CURRENT WELL SKETCH

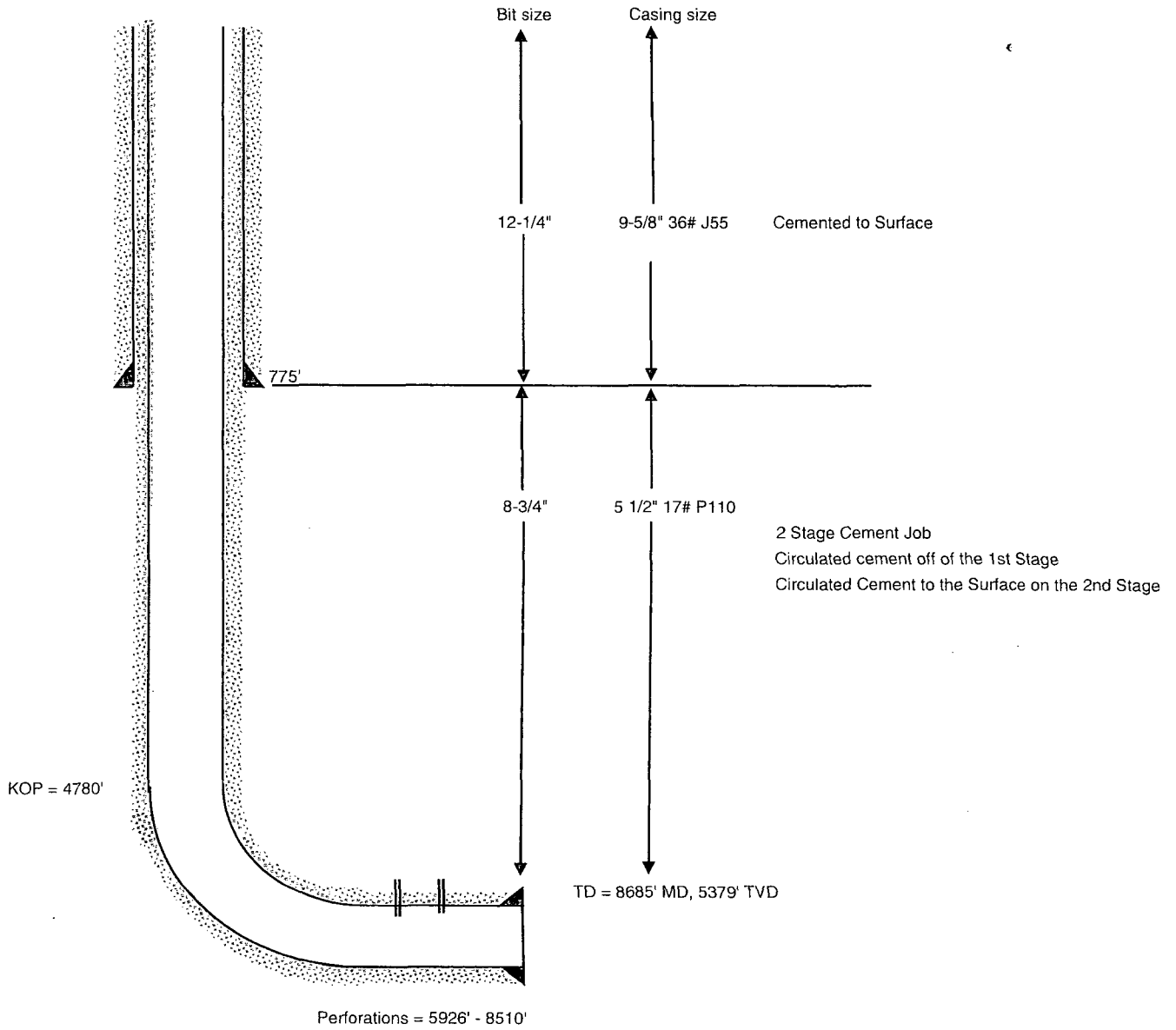


Drig Eng: R. Soza
Date: 7/27/2010

Karlsbad Corral #1 SWD
2222' FSL, 2641' FEL
Section 11, T25S, R29E
Eddy County, New Mexico
API No. 30-015-35341



Karlsbad Corral 11 #3H
10' FNL, 1980' FEL
Section 11, T25S, R29E
Eddy County, New Mexico
API 30-015-34449



OUT of AOR

Elk Wallow 11 State #5

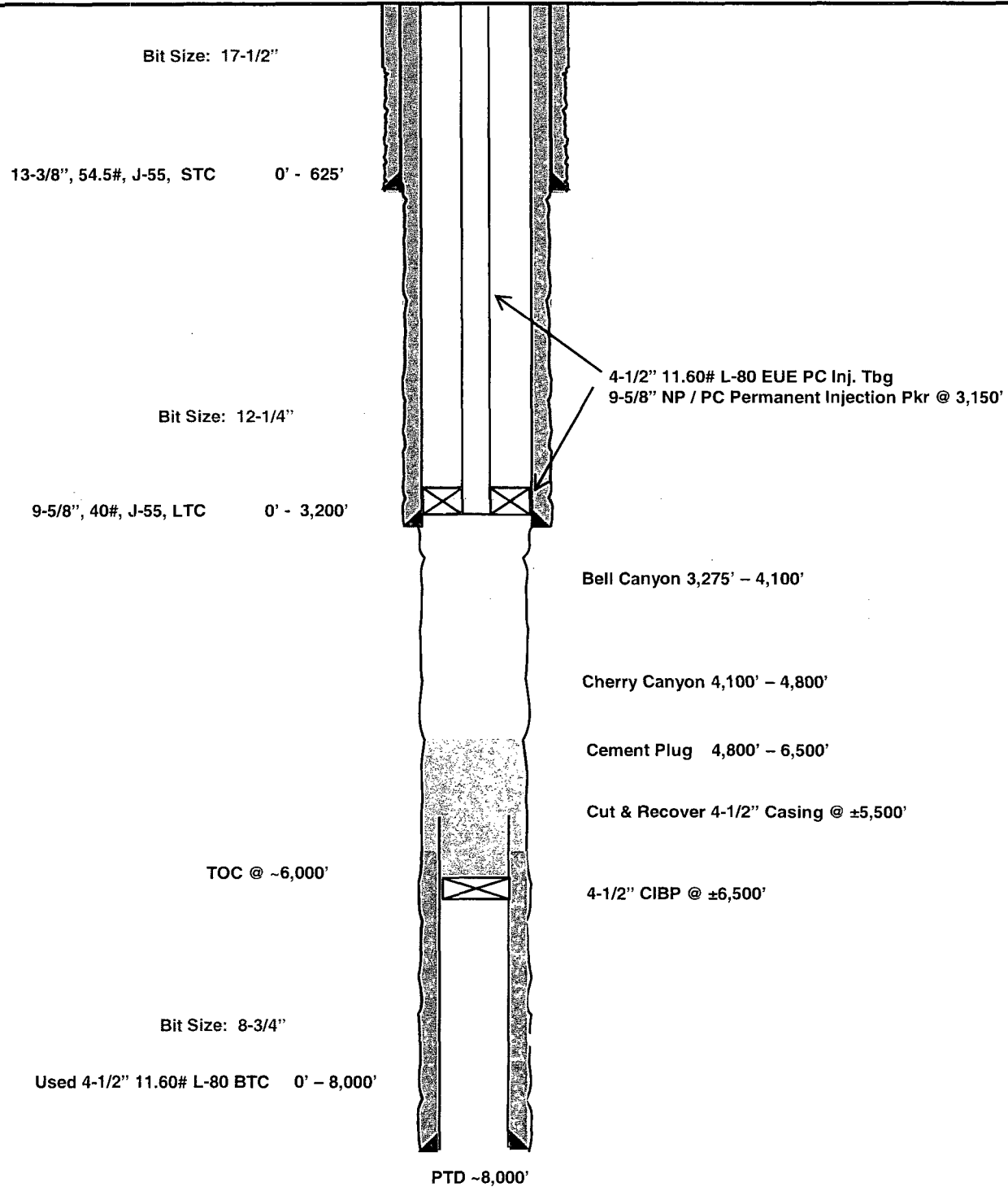
Eddy County, New Mexico

2350' FNL
1000' FEL
Section 11
T-25-S, R-29-E

Proposed Wellbore

API: 30-015-

KB: TBA
GL: TBA





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

| POD Number | Sub | County | Q Q Q | | | | | | | X | Y | Depth | Depth | Water |
|---------------|-------|--------|-------|----|----|---|-----|-----|-----|--------|----------|-------------------------|-------|---------|
| | basin | | Use | 64 | 16 | 4 | Sec | Tws | Rng | | | Well | Water | Column |
| RA 07162 EXP2 | | DOM | ED | 1 | 3 | 1 | 10 | 25S | 29E | 596214 | 3557222* | 55 | 40 | 15 |
| | | | | | | | | | | | | Average Depth to Water: | | 40 feet |
| | | | | | | | | | | | | Minimum Depth: | | 40 feet |
| | | | | | | | | | | | | Maximum Depth: | | 40 feet |

Record Count: 1

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 10

Township: 25S

Range: 29E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

| POD Number | Sub | basin | Use | County | Q | Q | Q | Sec | Tws | Rng | X | Y | Depth | Depth | Water |
|------------|-----|-------|-----|--------|----|----|---|-----|-----|-----|--------|----------|-------|-------|--------|
| | | | | | 64 | 16 | 4 | | | | | | Well | Water | Column |
| C 02459 | C | PRO | ED | | 4 | 4 | 1 | 02 | 25S | 29E | 598422 | 3558663* | 150 | | |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 2

Township: 25S

Range: 29E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

Billing Address: P.O. BOX 89210 • ODESSA, TEXAS 79769-0210

Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

MR. HECTOR SERNA

EOG RESOURCES

P.O. BOX 3229

CARLSBAD, NEW MEXICO 88220

SAMPLE SOURCE: ELK WALLOW 11 STATE COM #1-H

ANALYSIS COMPLETED: 09-23-2010

SAMPLE RECEIVED: 09-23-2010

LAB NUMBER: 6901

DISSOLVED SOLIDS:

| CATIONS: | MEQ/L | mg/L |
|--------------------------|---------|-------|
| SODIUM _____ (Na+) | 2443.18 | 56193 |
| CALCIUM _____ (Ca++) | 76.00 | 1520 |
| MAGNESIUM _____ (Mg++) | 52.00 | 634 |

ANIONS:

| | | |
|-----------------------------|---------|-------|
| CHLORIDE _____ (Cl-) | 2498.00 | 88679 |
| SULFATE _____ (SO4=) | 19.15 | 919 |
| CARBONATE _____ (CO3=) | 0.00 | 0 |
| BICARBONATE _____ (HCO3-) | 54.03 | 3296 |
| HYDROXIDE _____ (OH-) | 0.00 | 0 |

TOTAL DISSOLVED SOLIDS: 151241

OTHER PROPERTIES:

| | | | |
|--------------|----------------------|-------------------------------|-----------|
| PH | 6.80 | P-ALKALINITY (AS CaCO3) | 0 mg/L |
| SPEC. GRAV. | 1.10 | M-ALKALINITY (AS CaCO3) | 2702 mg/L |
| CONDUCTIVITY | 283700 μ MHOS/CM | CALCIUM HARDNESS (AS CaCO3) | 3800 mg/L |
| @ 77 °F | | MAGNESIUM HARDNESS (AS CaCO3) | 2600 mg/L |
| H2S | 0 mg/L | TOTAL HARDNESS (AS CaCO3) | 6400 mg/L |
| CO2 | 493 mg/L | | |
| IRON | 33.00 mg/L | | |



Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM

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Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

MR. HECTOR SERNA

EOG RESOURCES

P.O. BOX 3229

CARLSBAD, NEW MEXICO 88220

SAMPLE SOURCE: ELK WALLOW 11 STATE COM 1-H

ANALYSIS COMPLETED: 10-16-2010

SAMPLE RECEIVED: 10-15-2010

LAB NUMBER: 7051

DISSOLVED SOLIDS:

| CATIONS: | MEQ/L | mg/L |
|-----------------------------|---------|--------|
| SODIUM _____ (Na+) | 2438.46 | 56085 |
| CALCIUM _____ (Ca++) | 64.00 | 1280 |
| MAGNESIUM _____ (Mg++) | 22.00 | 268 |
| ANIONS: | | |
| CHLORIDE _____ (Cl-) | 2468.00 | 87614 |
| SULFATE _____ (SO4=) | 19.27 | 925 |
| CARBONATE _____ (CO3=) | 0.00 | 0 |
| BICARBONATE _____ (HCO3-) | 37.19 | 2269 |
| HYDROXIDE _____ (OH-) | 0.00 | 0 |
| TOTAL DISSOLVED SOLIDS: | | 148441 |

OTHER PROPERTIES:

| | | | |
|--------------|----------------------|-------------------------------|-----------|
| pH | 6.22 | P-ALKALINITY (AS CaCO3) | 0 mg/L |
| SPEC. GRAV. | 1.09 | M-ALKALINITY (AS CaCO3) | 1860 mg/L |
| CONDUCTIVITY | 287300 μ MHOS/CM | CALCIUM HARDNESS (AS CaCO3) | 3200 mg/L |
| @ 77 °F | | MAGNESIUM HARDNESS (AS CaCO3) | 1100 mg/L |
| H2S | 0 mg/L | TOTAL HARDNESS (AS CaCO3) | 4300 mg/L |
| CO2 | 669 mg/L | | |
| IRON | 130.00 mg/L | | |



Mobile Analytical Laboratories, Inc.

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
Billing Address: P.O. BOX 69210 • ODESSA, TEXAS 79769-0210
Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764
PHONE (432) 337-4744
FAX (432) 337-8781

MR. HECTOR SERNA

EOG RESOURCES

P.O. BOX 3229

CARLSBAD, NEW MEXICO 88220

SAMPLE SOURCE: ELK WALLOW 11 STATE 1-H

ANALYSIS COMPLETED: 10-08-2010

SAMPLE RECEIVED: 10-07-2010

LAB NUMBER: 6996

DISSOLVED SOLIDS:

| CATIONS: | MEQ/L | mg/L |
|-----------------------------|---------|--------|
| SODIUM _____ (Na+) | 2550.41 | 58659 |
| CALCIUM _____ (Ca++) | 72.00 | 1440 |
| MAGNESIUM _____ (Mg++) | 64.00 | 781 |
| ANIONS: | | |
| CHLORIDE _____ (Cl-) | 2620.00 | 93010 |
| SULFATE _____ (SO4=) | 19.15 | 919 |
| CARBONATE _____ (CO3=) | 0.00 | 0 |
| BICARBONATE _____ (HCO3-) | 47.26 | 2883 |
| HYDROXIDE _____ (OH-) | 0.00 | 0 |
| TOTAL DISSOLVED SOLIDS: | | 157692 |

OTHER PROPERTIES:

| | | | |
|----------------------|-----------------|-------------------------------|-----------|
| pH | 6.51 | P-ALKALINITY (AS CaCO3) | 0 mg/L |
| SPEC. GRAV. | 1.10 | M-ALKALINITY (AS CaCO3) | 2363 mg/L |
| CONDUCTIVITY @ 77 °F | 294600 µMHOS/CM | CALCIUM HARDNESS (AS CaCO3) | 3600 mg/L |
| | | MAGNESIUM HARDNESS (AS CaCO3) | 3200 mg/L |
| H2S | 0 mg/L | TOTAL HARDNESS (AS CaCO3) | 6800 mg/L |
| CO2 | 616 mg/L | | |
| IRON | 60.00 mg/L | | |



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PHONE (432) 337-4744

FAX (432) 337-8781

MR. HECTOR SERNA

EOG RESOURCES

P.O. BOX 3229

CARLSBAD, NEW MEXICO 88220

SAMPLE SOURCE: ELK WALLOW 11 STATE COM #2-H

ANALYSIS COMPLETED: 10-22-2010

SAMPLE RECEIVED: 10-22-2010

LAB NUMBER: 7111

DISSOLVED SOLIDS:

| CATIONS: | MEQ/L | mg/L |
|-----------------------------|---------|--------|
| SODIUM _____ (Na+) | 2947.70 | 67797 |
| CALCIUM _____ (Ca++) | 80.00 | 1600 |
| MAGNESIUM _____ (Mg++) | 36.00 | 439 |
| ANIONS: | | |
| CHLORIDE _____ (Cl-) | 2986.00 | 106003 |
| SULFATE _____ (SO4=) | 18.90 | 907 |
| CARBONATE _____ (CO3=) | 0.00 | 0 |
| BICARBONATE _____ (HCO3-) | 58.80 | 3587 |
| HYDROXIDE _____ (OH-) | 0.00 | 0 |
| TOTAL DISSOLVED SOLIDS: | | 180333 |

OTHER PROPERTIES:

| | | | |
|--------------|----------------------|-------------------------------|-----------|
| PH | 6.32 | P-ALKALINITY (AS CaCO3) | 0 mg/L |
| SPEC. GRAV. | 1.11 | M-ALKALINITY (AS CaCO3) | 2940 mg/L |
| CONDUCTIVITY | 344600 μ MHOS/CM | CALCIUM HARDNESS (AS CaCO3) | 4000 mg/L |
| @ 77 °F | | MAGNESIUM HARDNESS (AS CaCO3) | 1800 mg/L |
| H2S | 0 mg/L | TOTAL HARDNESS (AS CaCO3) | 5800 mg/L |
| CO2 | 669 mg/L | | |
| IRON | 130.00 mg/L | | |



Mobile Analytical Laboratories, Inc.

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PHONE (432) 337-4744
FAX (432) 337-8781

MR. HECTOR SERNA

BOG RESOURCES

P.O. BOX 3229

CARLSBAD, NEW MEXICO 88220

SAMPLE SOURCE: BLK WALLOW 11 STATE COM 2-H

ANALYSIS COMPLETED: 10-16-2010

SAMPLE RECEIVED: 10-15-2010

LAB NUMBER: 7053

DISSOLVED SOLIDS:

| CATIONS: | MEQ/L | mg/L |
|-----------------------------|---------|--------|
| SODIUM _____ (Na+) | 2856.14 | 65691 |
| CALCIUM _____ (Ca++) | 84.00 | 1680 |
| MAGNESIUM _____ (Mg++) | 42.00 | 512 |
| ANIONS: | | |
| CHLORIDE _____ (Cl-) | 2896.00 | 102808 |
| SULFATE _____ (SO4=) | 23.02 | 1105 |
| CARBONATE _____ (CO3=) | 0.00 | 0 |
| BICARBONATE _____ (HCO3-) | 63.12 | 3850 |
| HYDROXIDE _____ (OH-) | 0.00 | 0 |
| TOTAL DISSOLVED SOLIDS: | | 175646 |

OTHER PROPERTIES:

| | | | |
|--------------|----------------------|-------------------------------|-----------|
| pH | 6.28 | P-ALKALINITY (AS CaCO3) | 0 mg/L |
| SPEC. GRAV. | 1.10 | M-ALKALINITY (AS CaCO3) | 3156 mg/L |
| CONDUCTIVITY | 316700 μ MHOS/CM | CALCIUM HARDNESS (AS CaCO3) | 4200 mg/L |
| ② 77 °F | | MAGNESIUM HARDNESS (AS CaCO3) | 2100 mg/L |
| H2S | 0 mg/L | TOTAL HARDNESS (AS CaCO3) | 6300 mg/L |
| CO2 | 898 mg/L | | |
| IRON | 200.00 mg/L | | |



Mobile Analytical Laboratories, Inc.

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Shipping Address: 2800 WESTOVER STREET • ODESSA, TEXAS 79764

PHONE (432) 337-4744

FAX (432) 337-8781

MR. HECTOR SERNA

EOG RESOURCES

P.O. BOX 3229

CARLSBAD, NEW MEXICO 88220

SAMPLE SOURCE: ELK WALLOW 11 STATE 2-H

ANALYSIS COMPLETED: 10-08-2010

SAMPLE RECEIVED: 10-07-2010

LAB NUMBER: 6998

DISSOLVED SOLIDS:

| CATIONS: | MEQ/L | mg/L |
|-----------------------------|---------|--------|
| SODIUM _____ (Na+) | 2421.95 | 55705 |
| CALCIUM _____ (Ca++) | 96.00 | 1920 |
| MAGNESIUM _____ (Mg++) | 22.00 | 268 |
| ANIONS: | | |
| CHLORIDE _____ (Cl-) | 2480.00 | 88040 |
| SULFATE _____ (SO4=) | 2.35 | 113 |
| CARBONATE _____ (CO3=) | 0.00 | 0 |
| BICARBONATE _____ (HCO3-) | 57.60 | 3514 |
| HYDROXIDE _____ (OH-) | 0.00 | 0 |
| TOTAL DISSOLVED SOLIDS: | | 149560 |

OTHER PROPERTIES:

| | | | |
|--------------|----------------------|-------------------------------|-----------|
| pH | 6.33 | P-ALKALINITY (AS CaCO3) | 0 mg/L |
| SPEC. GRAV. | 1.10 | M-ALKALINITY (AS CaCO3) | 2880 mg/L |
| CONDUCTIVITY | 281400 μ MHOS/CM | CALCIUM HARDNESS (AS CaCO3) | 4800 mg/L |
| @ 77 °F | | MAGNESIUM HARDNESS (AS CaCO3) | 1100 mg/L |
| H2S | 0 mg/L | TOTAL HARDNESS (AS CaCO3) | 5900 mg/L |
| CO2 | 634 mg/L | | |
| IRON | 103.00 mg/L | | |

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS, NEW MEXICO

COMPANY El Paso Natural Gas

well #1 (west well)

REPORT

W09-019

DATE

March 30, 2009

DISTRICT

Hobbs, NM

SUBMITTED BY _____

| WELL | DEPTH | FORMATION |
|--------|-------|-----------|
| COUNTY | FIELD | SOURCE |

SAMPLE

| | | | | |
|--------------|----------|-------|-------|-------|
| Sample Temp. | 70 °F | °F | °F | °F |
| RESISTIVITY | 3.36 | | | |
| SPECIFIC GR. | 1.001 | | | |
| pH | 7.83 | | | |
| CALCIUM | 500 mpl | mpl | mpl | mpl |
| MAGNESIUM | 300 mpl | mpl | mpl | mpl |
| CHLORIDE | 279 mpl | mpl | mpl | mpl |
| SULFATES | <100 mpl | mpl | mpl | mpl |
| BICARBONATES | 823 mpl | mpl | mpl | mpl |
| SOLUBLE IRON | 0 mpl | mpl | mpl | mpl |
| KCL | | | | |
| Sodium | mpl | 0 mpl | 0 mpl | 0 mpl |
| TDS | mpl | 0 mpl | 0 mpl | 0 mpl |
| OIL GRAVITY | @ °F | @ °F | @ °F | @ °F |

REMARKS _____

MPL = Milligrams per liter

Resitivity measured in Ohm/m2/m

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ANALYST: John Eubank

4

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY
WATER ANALYSIS REPORT
HOBBS, NEW MEXICO

COMPANY EOG REPORT W10-045
Well #2 (East Well) DATE April 1, 2010
DISTRICT Hobbs

SUBMITTED BY Mike Huber

| WELL | <u>Elk Wallup</u> | DEPTH | FORMATION |
|--------------|-------------------|-------------|-------------|
| COUNTY | | FIELD | SOURCE |
| TANK | | | |
| SAMPLE | | | |
| Sample Temp. | <u>75</u> °F | <u></u> °F | <u></u> °F |
| RESISTIVITY | <u>0.125</u> | <u></u> | <u></u> |
| SPECIFIC GR. | <u>1.001</u> | <u></u> | <u></u> |
| pH | <u>7.96</u> | <u></u> | <u></u> |
| CALCIUM | <u>110</u> mpl | <u></u> mpl | <u></u> mpl |
| MAGNESIUM | <u>66</u> mpl | <u></u> mpl | <u></u> mpl |
| CHLORIDE | <u>378</u> mpl | <u></u> mpl | <u></u> mpl |
| SULFATES | <u>Light</u> mpl | <u></u> mpl | <u></u> mpl |
| BICARBONATES | <u>61</u> mpl | <u></u> mpl | <u></u> mpl |
| SOLUBLE IRON | <u>0</u> mpl | <u></u> mpl | <u></u> mpl |
| KCL | <u>N</u> | <u></u> | <u></u> |
| Sodium | <u></u> mpl | <u></u> mpl | <u></u> mpl |
| TDS | <u></u> mpl | <u></u> mpl | <u></u> mpl |
| OIL GRAVITY | <u>@</u> °F | <u>@</u> °F | <u>@</u> °F |

REMARKS

MPL = Milligrams per liter
Resitivity measured in: Ohm/m2/m

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ANALYST: MB/MA/RK

Response to email dated 2/23/2011 regarding -
Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-
38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet

RECEIVED OGD
2011 MAR 14 A 11:45

Question A; Answer

Based on my geological review of the available logs in this vicinity it is my opinion that none of the Upper Bell Canyon Sands (3200'-4000' in #1 Karlsbad Corral SWD) in the area of the proposed EOGR, #5 Elk Wallow 11 State are capable of oil & gas production. The first productive sand will be encountered at +5300' in the Lower Cherry Canyon of the Delaware

The EOGR, #2H Elk Wallow 11 State (1st well on x-section) is 3050' northwest & 9' up dip at the top of the Delaware, to the Southwestern, #1 Karlsbad Corral SWD (3rd well on x-section). This 1st well had no oil shows while drilling from 3200' to 3300' or 3900' to 4000'. The first oil show occurring in this well is at 5320' which is the top of the locally productive Lower Cherry Canyon Sand. Please note that the 1st well lost returns after penetrating this sand which facilitated the need to set intermediate casing. Neither of the 1st or 3rd wells ran a resistivity log for water saturation calculations.

The Oxy, #1 Corral Fly '11' State (2nd well on x-section) is 3150' northeast & 11' up dip at the top of the Delaware, to the Southwestern, #1 Karlsbad Corral SWD. This 2nd well is completed from 5364-5373' in the Lower Cherry Canyon, which has good density-neutron crossover with a water saturation around 50%; it has produced 34.63 Mbo, 1956 Mcfg & 62.65 Mbwt since 1/1996. The Upper Delaware sands (3200'-4000') calculate in excess of 60% water saturation in this well.

The Oxy, #1 Bradley '13' Federal (4th well on x-section) is 6200' southeast & 49' down dip at the top of the Delaware, to the Southwestern, #1 Karlsbad Corral SWD. This 4th well has a resistivity log for water saturation calculations as well as a mudlog. The Uppermost Delaware Sands in this 4th well (3300'-3400') have no density-neutron crossover, calculate in excess of 50% water saturation and had only a trace of fluorescence in the mudlog samples. This sand is nonproductive. The closest production from the Uppermost Bell Canyon Sand (3200-3300') is 1.5 miles to the east & 170' down dip in S8-9-17-18-19-21/T20S/R30E. In this 4th well there are no other shows in the Bell Canyon; with the first show of consequence at 4445' in the Cherry Canyon Sands. This sand has good fluorescence, a trace of oil cut, with no density-neutron crossover & a 60% water saturation; this zone is nonproductive. Deeper in this well there are shows at 5212'-5245' which were drill stem tested with a sampler recovery of 40 cc oil, 1800 cc water. Additional good shows are at 5305'-5330', this sand drill stem tested a recovery of 200' oil, 100' oil & water, & 73' water. The 5305-5330' sand has yet to be produced and the well is currently completed in the Upper Brushy Canyon Sands at 5616'-5700' & has produced 75.86 Mbo & 199.44 Mbwt since 5/1997. These sands exhibited some fluorescence & cut with a report of oil on pits by the mudlog, with water saturations around 60% & some density-neutron crossover.

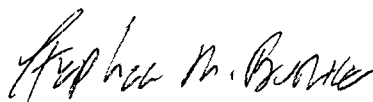
Question C; Answer

The logging program for the #5 Elk Wallow 11 State:

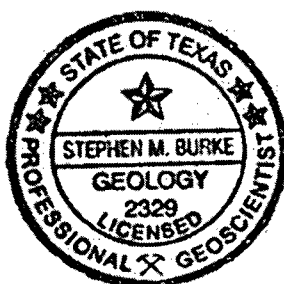
Quad-Combo; T.D. (8000') – Casing (3200'). Density, Neutron, Gamma Ray, Caliper, PE, Laterolog & Sonic.

Cased Hole; Casing (3200') – Surface; Neutron & Gamma Ray.

After we run open hole logs EOGR will further evaluate the well for potentially productive Delaware Sands.



Stephen Burke
EOG - Geological Advisor
Midland Division



Affidavit of Publication

NO.

21515

STATE OF NEW MEXICO

County of Eddy:

Walter L. Green

Walter L. Green

being duly sworn, says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/days on the same day as follows:

First Publication January 13, 2011

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn to before me this

13th day of January 2011



OFFICIAL SEAL

Danny Scott

NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 3/18/2014

Danny Scott

Danny Scott
Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

EOG Resources, Inc., P.O. Box 2267, Midland, TX 79702, will file form C-108 (Application for Authorization To Inject) with the New Mexico Oil Conservation Division seeking administrative approval for water injection wells.

The Elk Wallow 11 State 5 is located 1600' FSL & 1000' FEL, Section 11, Township 25 South, Range 29 East, Eddy County, New Mexico. Injection water will be sourced from area wells producing from the Bone Spring formation. The injection water will be injected into the Delaware Sand formation at a depth of 3200'- 4800', a maximum surface pressure of 1000 psi, and a maximum rate of 10000 BWPD.

All interested parties opposing the action 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. Additional information may be obtained by contacting Stan Wagner at P.O. Box 2267, Midland, TX 79702, or 432-686-3600.

Published in the Artesia Daily Press, Artesia, N.M., January 13, 2011. Legal No. 21515.



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

January 17, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Lime Rock Resources A, L.P.
1111 Bagby Street, Ste. 4600
Houston, TX 77002

Re: Application of EOG Resources, Inc. for administrative approval of
Elk Wallow 11 State No.5 – Eddy County, New Mexico.
Application for a Water Disposal Injection well

Ladies and Gentlemen:

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a Water Disposal Injection Well: the Elk Wallow 11 State No. 5 is located 1600 feet from the South line and 1000 feet from the East line of Section 11, Township 25 South, Range 29 East, NMPM, Eddy County, New Mexico. EOG proposes to re-inject water produced from the Bone Spring formation into the Delaware Sand formation at a measured depth of 3200 feet to 4800 feet. This injection will occur with a maximum injection pressure of 1000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

This application is provided to you as the lessee of record for offset lands within a ½ mile radius of the subject well. If you object to this application your objection must be filed in writing with the Santa Fe Office of the Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days of the date of this letter. If there is no objection, the Division Director may approve this application.

Sincerely,

EOG RESOURCES, INC.

A handwritten signature in cursive script that reads "Stan Wagner".

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lime Rock Resources A, L.P.
1111 Bagby Street, Ste. 4600
Houston, TX 77002

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ X*Nick Patel*

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Nick Patel

C. Date of Delivery

D. Is delivery address different from Item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number

(Transfer from service label)

7009 3410 0000 0960 9031

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

January 17, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

State of New Mexico
310 Old Santa Fe Trail
Santa Fe, NM 87504

Re: Application of EOG Resources, Inc. for administrative approval of
Elk Wallow 11 State 5 – Eddy County, New Mexico.
Application for a Water Disposal Injection well

Ladies and Gentlemen:

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a Water Disposal Injection Well: the Elk Wallow 11 State No. 5 located 1600 feet from the South line and 1000 feet from the East line of Section 11, Township 25 South, Range 29 East, NMPM, Eddy County, New Mexico. EOG proposes to re-inject water produced from the Bone Spring formation into the Delaware Sand formation at a measured depth of 3200 feet to 4800 feet. This injection will occur with a maximum injection pressure of 1000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

This application is provided to you as owner of the surface of the land upon which the subject well is located. If you object to this application your objection must be filed in writing with the Santa Fe Office of the Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days of the date of this letter. If there is no objection, the Division Director may approve this application.

Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Stan Wagner", written over a horizontal line.

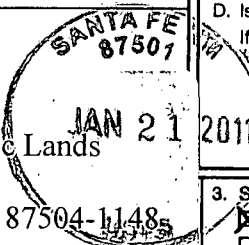
Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

State of New Mexico
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504-1148

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service-Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number

(Transfer from service)

7009 3410 0000 0960 9024

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

March 9, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

OXY Y-1
5 Greenway Plaza, Suite 110
Houston, TX 77046-0521

Re: Application of EOG Resources, Inc. for administrative approval of
Elk Wallow 11 State 5 – Eddy County, New Mexico.
Application for a Water Disposal Injection well

Ladies and Gentlemen:

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a Water Disposal Injection Well: the Elk Wallow 11 State No. 5 located 1600 feet from the South line and 1000 feet from the East line of Section 11, Township 25 South, Range 29 East, NMPM, Eddy County, New Mexico. EOG proposes to re-inject water produced from the Bone Spring formation into the Delaware Sand formation at a measured depth of 3200 feet to 4800 feet. This injection will occur with a maximum injection pressure of 1000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

This application is provided to you as a mineral owner within the proximity of the subject well. If you object to this application your objection must be filed in writing with the Santa Fe Office of the Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days of the date of this letter. If there is no objection, the Division Director may approve this application.

Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Stan Wagner", with a long horizontal flourish extending to the right.

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

- Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

OXY Y-1
5 Greenway Plaza, Suite 110
Houston, TX 77046-0521

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes2. A
0

7009 3410 0000 0960 9123

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

March 9, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

OXY USA Inc.
5 Greenway Plaza, Suite 110
Houston, TX 77046-0521

Re: Application of EOG Resources, Inc. for administrative approval of
Elk Wallow 11 State 5 – Eddy County, New Mexico.
Application for a Water Disposal Injection well

Ladies and Gentlemen:

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a Water Disposal Injection Well: the Elk Wallow 11 State No. 5 located 1600 feet from the South line and 1000 feet from the East line of Section 11, Township 25 South, Range 29 East, NMPM, Eddy County, New Mexico. EOG proposes to re-inject water produced from the Bone Spring formation into the Delaware Sand formation at a measured depth of 3200 feet to 4800 feet. This injection will occur with a maximum injection pressure of 1000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

This application is provided to you as a mineral owner within the proximity of the subject well. If you object to this application your objection must be filed in writing with the Santa Fe Office of the Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days of the date of this letter. If there is no objection, the Division Director may approve this application.

Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Stan Wagner", with a long horizontal flourish extending to the right.

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

OXY USA Inc.
5 Greenway Plaza, Suite 110
Houston, TX 77046-0521

COMPLETE THIS SECTION ON DELIVERY

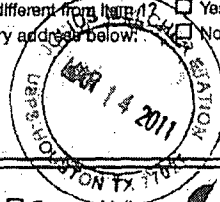
A. Signature

X *Mike Hall*☐ Agent☐ Addressee

B. Received by (Printed Name)

Mike Hall

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes2. Article Number
(Transfer from)

7009 3410 0000 0960 9116

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

March 9, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Yates Petroleum Corporation
105 S. Fourth St.
Artesia, New Mexico 88210

Re: Application of EOG Resources, Inc. for administrative approval of
Elk Wallow 11 State 5 – Eddy County, New Mexico.
Application for a Water Disposal Injection well

Ladies and Gentlemen:

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a Water Disposal Injection Well: the Elk Wallow 11 State No. 5 located 1600 feet from the South line and 1000 feet from the East line of Section 11, Township 25 South, Range 29 East, NMPM, Eddy County, New Mexico. EOG proposes to re-inject water produced from the Bone Spring formation into the Delaware Sand formation at a measured depth of 3200 feet to 4800 feet. This injection will occur with a maximum injection pressure of 1000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

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Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Stan Wagner", written over a horizontal line.

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Yates Petroleum Corporation
105 S. Fourth St.
Artesia, NM 88210

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

D. Carrera☐ Agent☐ Addressee

B. Received by (Printed Name)

D. Carrera

C. Date of Delivery

3-11-11

D. Is delivery address different from item 1?

☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes2. Article Numt
(Transfer from)

7009 3410 0000 0960 9109



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

March 9, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Abo Petroleum Corporation
105 S. Fourth St.
Artesia, New Mexico 88210

Re: Application of EOG Resources, Inc. for administrative approval of
Elk Wallow 11 State 5 – Eddy County, New Mexico.
Application for a Water Disposal Injection well

Ladies and Gentlemen:

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a Water Disposal Injection Well: the Elk Wallow 11 State No. 5 located 1600 feet from the South line and 1000 feet from the East line of Section 11, Township 25 South, Range 29 East, NMPM, Eddy County, New Mexico. EOG proposes to re-inject water produced from the Bone Spring formation into the Delaware Sand formation at a measured depth of 3200 feet to 4800 feet. This injection will occur with a maximum injection pressure of 1000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

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Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Stan Wagner", with a long horizontal flourish extending to the right.

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Abo Petroleum Corporation
105 S. Fourth St.
Artesia, NM 88210

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*☐ Agent☐ Addressee

B. Received by (Printed Name)

Robert D. Carrera

C. Date of Delivery

*3-11-11*D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article No.

(Transfer)

7009 3410 0000 0960 9093

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

March 9, 2011

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Myco Industries, Inc.
105 S. Fourth St.
Artesia, New Mexico 88210

Re: Application of EOG Resources, Inc. for administrative approval of
Elk Wallow 11 State 5 – Eddy County, New Mexico.
Application for a Water Disposal Injection well

Ladies and Gentlemen:

Enclosed please find a copy of the application of EOG Resources, Inc. (Oil Conservation Division Form C-108) in the above-referenced matter for approval of a Water Disposal Injection Well: the Elk Wallow 11 State No. 5 located 1600 feet from the South line and 1000 feet from the East line of Section 11, Township 25 South, Range 29 East, NMPM, Eddy County, New Mexico. EOG proposes to re-inject water produced from the Bone Spring formation into the Delaware Sand formation at a measured depth of 3200 feet to 4800 feet. This injection will occur with a maximum injection pressure of 1000 psi and a maximum injection rate of 10000 barrels of water per day as fully described in the application.

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Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Stan Wagner", written over a horizontal line.

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Myco Industries, Inc.
105 S. Fourth St.
Artesia, NM 88210

2. Article No.
(Transfer)

7009 3410 0000 0960 9017

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

D. Carrera☐ Agent☐ Addressee

B. Received by (Printed Name)

D. Carrera

C. Date of Delivery

*3-11-11*D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, February 23, 2011 5:35 PM
To: 'Stan_Wagner@eogresources.com'
Cc: Ezeanyim, Richard, EMNRD; Reeves, Jacqueta, EMNRD
Subject: Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet.

Hello Stan:

I reviewed this today and only have a couple questions:

- ✓ a. I am aware the Karlsbad Korral SWD well is already permitted for disposal from 3200 to 4000 feet, but would you please ask your geologist or engineer to send some more evaluation (with signature) of the interval from 3200 to 3300 and from 3900 to 4000 feet. Do these two intervals have any potential for recovery of oil or gas? And if not, why not?
- ✓ b. If these intervals are questionably productive, we would ask EOG to retain the casing through these intervals and cement it, then perforate and fracture if needed. The Karlsbad Corral well already had to have an injection pressure increase, so it may be this Delaware is a bit tight and to your advantage to set pipe, so you can focus a stimulation to increase disposal rate. That question should be posed to your engineers.
- ✓ c. What logs do you plan to run on this well?
- d. With this application we only see that Lime Rock and the State Land Office were provided notice.
- ✓ e. Would you please ask your Landman to let me know who controls (the lessees or if no lessee, the mineral owner) the minerals in the Delaware formation in the following areas:
- a. Unit letter D of Section 13
 - b. Unit Letters A and B of Section 14
 - c. W/2 of W/2 of Section 12 (Except for Unit Letter D)
 - d. E/2 of Section 11 (Except for Unit Letters A and B)
 - e. Unit Letters F, K, and N of Section 11
 - f. (Or divide the circular AOR in to defined, commonly owned tracts and list the owners of each tract).

If any of those named were not provided notice, please do so and send a copy of the notice number or notice receipt.

Thank You in advance,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Stan_Wagner@eogresources.com
Sent: Wednesday, March 09, 2011 10:08 AM
To: Jones, William V., EMNRD
Subject: Re: Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet.

Will, just an update on where we are on this permit. After the land review of the additional area you requested, I am noticing Yates, Abo, Myco, and Oxy. I will send the green cards ASAP. Geology is working the answer to your other questions and should have that ready shortly.

Thanks,
Stan

☞ "Jones, William V., EMNRD" ---02/23/2011 06:35:03 PM---Hello Stan: I reviewed this today and only have a couple questions:

From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
To: "Stan_Wagner@eogresources.com" <Stan_Wagner@eogresources.com>
Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Reeves, Jacqueta, EMNRD" <Jacqueta.Reeves@state.nm.us>
Date: 02/23/2011 06:35 PM
Subject: Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet.

Hello Stan:

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- c. W/2 of W/2 of Section 12 (Except for Unit Letter D)
- d. E/2 of Section 11 (Except for Unit Letters A and B)
- e. Unit Letters F, K, and N of Section 11
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If any of those named were not provided notice, please do so and send a copy of the notice number or notice receipt.

Thank You in advance,

William V Jones, P.E.

Engineering, Oil Conservation Division

1220 South St. Francis Drive, Santa Fe, NM 87505

Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Stan_Wagner@eogresources.com
Sent: Monday, March 21, 2011 8:07 AM
To: Jones, William V., EMNRD
Subject: Elk Wallow 11 State 5 SWD - Additional Notice
Attachments: Scan001.PDF

Good Morning Will,

Attached is the additional notice and certified receipts that you requested be sent for our Elk Wallow 11 State 5 SWD permit application. This well is intended to be drilled as a frac monitor well and then converted to SWD. However, we do not want to drill a throw-away wellbore, and it is scheduled to be drilled the middle of April. So, the question is, barring a protest, is OCD reasonably sure that the well will be permitted for SWD. I don't need the signed order, just a reasonable assurance when you feel comfortable with the well, that I can take to operations for planning.

Thanks,

Stan Wagner
EOG Resources - Midland Division

(See attached file: Scan001.PDF)

Jones, William V., EMNRD

From: Stan_Wagner@eogresources.com
Sent: Thursday, March 10, 2011 2:42 PM
To: Jones, William V., EMNRD
Subject: Fw: Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet.
Attachments: ElkWallowQuestionsJAY.docx; ElkWallow5BaseMap1.pdf; ElkWallow5DlwrA.A'.pdf

Will, attached is the geological response to your questions. Additional notice has been sent as we discussed yesterday. Please let me know if you need anything else.

Thanks,
Stan

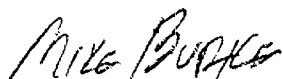
----- Forwarded by Stan Wagner/EOGResources on 03/10/2011 03:39 PM -----

From: Mike Burke/EOGResources
To: Stan Wagner/EOGResources@EOGResources
Cc: Jay Siebens/EOGResources@EOGResources, Donny Glanton/EOGResources@EOGResources, Doug Hurlbut/EOGResources@EOGResources
Date: 03/10/2011 02:54 PM
Subject: Fw: Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet.

Stan, attached are the documents I have prepared to answer Questions 1 & 2. The map & cross-section support the word document. Let Mr. Jones know he can contact me below if he has questions or needs additional material or explanation.

(See attached file: ElkWallowQuestionsJAY.docx)(See attached file: ElkWallow5BaseMap1.pdf)(See attached file: ElkWallow5DlwrA.A'.pdf)

Thanks,



Mike Burke
Geological Advisor
EOG Resources, Inc.
Midland Division
4000 N Big Spring St., Ste. 500
Midland, TX 79705

EOG Resources, Inc.
P.O. Box 2276
Midland, TX 79702

Of.#; 432-686-3626

Mb.#; 432-770-4882
Hm.#; 432-689-4877
Fax#; 432-686-3686
LogFax#; 432-686-3768

mike_burke@eogresources.com

----- Forwarded by Mike Burke/EOGResources on 03/10/2011 02:38 PM -----

From: Jay Siebens/EOGResources
To: Mike Burke/EOGResources@EOGResources
Date: 02/28/2011 11:37 AM
Subject: Fw: Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet.

Mike

One more thing for you to chase down.

Below are some questions raised by the NMOCD regarding our Elk Wallow #5 SWD permit. Would you please evaluate questions - (a), (b) & (c).

As soon as we can get this resolved given an April 12, 2011 spud date.

Thanks

Jay

----- Forwarded by Jay Siebens/EOGResources on 02/28/2011 11:30 AM -----

From: Stan Wagner/EOGResources
To: Jay Siebens/EOGResources@EOGResources
Cc: Travis Lain/EOGResources@EOGRESOURCES, Doug Hurlbut/EOGResources@EOGResources, Charlie Aupied/EOGResources@EOGRESOURCES, Steve Munsell/EOGResources@EOGRESOURCES, Ron Willett/EOGResources@EOGResources
Date: 02/25/2011 08:33 AM
Subject: Fw: Disposal application from EOG Resources, Inc.: Elk Wallow 11 State #5 30-015-38388 Bell and Cherry Canyon Open Hole 3200 to 4800 feet.

Jay / Doug,

Will you provide me with the requested information so that I may forward it on to OCD. Thanks.

----- Forwarded by Stan Wagner/EOGResources on 02/25/2011 08:19 AM -----

From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
To: "Stan_Wagner@eogresources.com" <Stan_Wagner@eogresources.com>
Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Reeves, Jacqueta, EMNRD" <Jacqueta.Reeves@state.nm.us>
Date: 02/23/2011 06:35 PM

Hello Stan:

I reviewed this today and only have a couple questions:

- a. I am aware the Karlsbad Korral SWD well is already permitted for disposal from 3200 to 4000 feet, but would you please ask your geologist or engineer to send some more evaluation (with signature) of the interval from 3200 to 3300 and from 3900 to 4000 feet. Do these two intervals have any potential for recovery of oil or gas? And if not, why not?
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 - d. E/2 of Section 11 (Except for Unit Letters A and B)
 - e. Unit Letters F, K, and N of Section 11
 - f. (Or divide the circular AOR in to defined, commonly owned tracts and list the owners of each tract).

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Thank You in advance,

William V Jones, P.E.

Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Jereme_Robinson@oxy.com
Sent: Wednesday, March 23, 2011 2:06 PM
To: stan_wagner@eogresources.com
Cc: Jones, William V., EMNRD; Brent_Sonnier@oxy.com
Subject: Elk Wallow 11 State #5

Stan:

Per our conversation on the phone today please accept this email as a conformation as well as information to EOG for the following:

OXY will not protest the C-108/SWD for the subject well in lieu of:
EOG allowing OXY 90-days from 3/28/2011 to squeeze cement behind pipe to recomplete and test the Delaware formation.

OXY's concern was the mechanical integrity of the casing in an existing well at or around 3000' away without cement behind pipe in EOG's proposed injection interval. OXY would feel most comfortable to be afforded time (90days) by EOG to squeeze cement behind pipe in that interval to avoid possible future environmental issues and/or costly repairs. This request is made in good faith and as a precautionary measure.

If anyone at EOG Resources should have any questions, concerns, or comments to this email you may contact myself at the information provided below or Brent Sonnier at 713-366-5654

Regards,

Jereme W. Robinson
Regulatory Analyst
OXY USA Inc.
OXY USA WTP LP
5 Greenway Plaza, Suite 110
Houston, TX 77046
Ofc: 713.366.5360
Fax: 713.985.1965
jereme_robinson@oxy.com

A

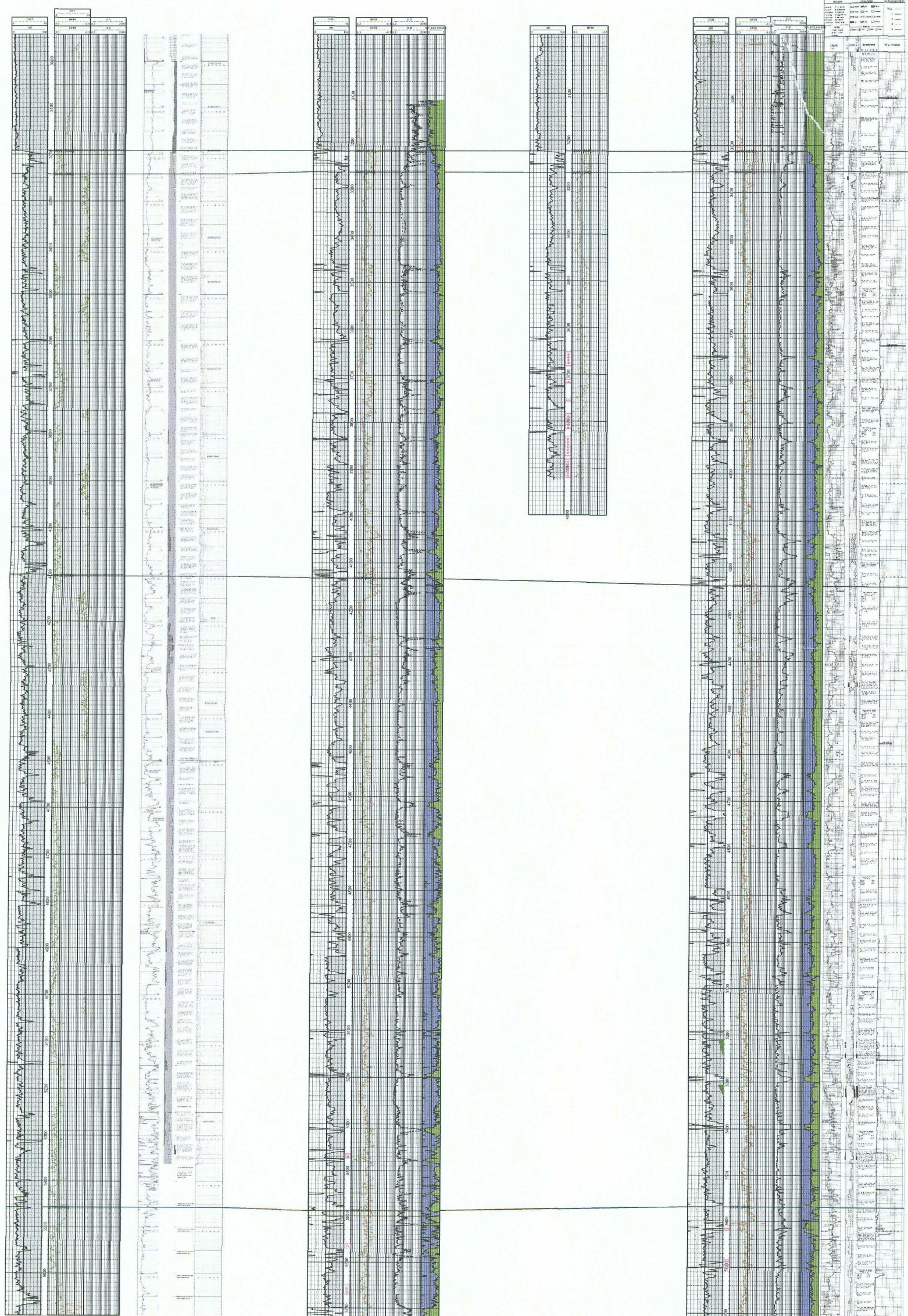
A'

30015375890000
EOG RESOURCES
ELK WALLOW STATE 11
2H
1

30015287160000
OXY USA WTP LP
CORRAL FLY '11' STA
1
2

30015353410000
LIME ROCK RESOURCES A LP
KARLSBAD CORRAL SWD
1
3

30015292560000
OXY USA INC
BRADLEY '13' FEDERA
1
4



Stratigraphic Datum
Top Delaware (Lamar)
Top Bell Canyon

Top Cherry Canyon

Top Brushy Canyon

3/20/10

1267 Permit Date 3/8/11 UIC Qtr (J/F/M)

WALLOW 11 STATE #5

Spud Date: New New/Old: N (UIC primacy March 7, 1982)

FEL Unit I Sec 11 Tsp 255 Rge 29E County EDDY

as, INC. Contact STON WAGNER
pliance (Wells) 2/530 (Finan Assur) OK IS 5.9 OK? OK
NOT DRILLED

to Well:

Diagrams: Before Conversion After Conversion Elogs in Imaging File: No LOS

| Well Details: | Sizes | Setting | Stage | Cement | Determination |
|-----------------------|---------------------|---------|-------------|--------|---------------|
| Hole.....Pipe | Depths | Tool | Sx or Cf | Method | |
| New Existing Surface | 17 1/2 13 3/8 | 625 | - | 525 | CIRC |
| New Existing Interm | 12 1/4 9 5/8 | 3200' | ? | 750 | CIRC |
| New Existing LongSt | 8 3/4 | 8,000' | PULSED PIPE | | |
| New Existing Liner | | | | | |
| New Existing OpenHole | 8 3/4 (3200 - 4800) | | | | |

Depths/Formations:

| Depths, Ft. | Formation | Tops? |
|------------------------|-----------|-------------------------------------|
| 3200 | D-1 | ✓ |
| 3275 | Bell C. | ✓ |
| Formation(s) Above | | |
| Injection TOP: 3209 | Bell C. | Max. PSI 640 |
| Injection BOTTOM: 4800 | Cherry C. | OpenHole ✓ Perfs |
| Formation(s) Below | | Tubing Size 4 1/2 Packer Depth 3150 |

See SWD-1062-A (3200-4800)
3200-4800
3200-3350 - SWD-1062

Capitan Reef? (Potash? Noticed?) (WIRP? Noticed?) Salado Top/Bot 1285'-2935' Cliff House?

Fresh Water: Depths: 0-250' Formation Ogallala/Plains Wells 2 Analysis? Affirmative Statement ✓

Disposal Fluid Analysis? Sources: B.S.

Disposal Interval: Analysis? Production Potential/Testing: Log analysis + EXISTING SWD

Notice: Newspaper Date 1/13/11 Surface Owner S.L.O. Mineral Owner(s)

RULE 26.7(A) Affected Persons: Line Rock/MYCO/ABO/AY/XP/OKY/

AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams?

Active Wells 1 Repairs? Which Wells?

P&A Wells Repairs? Which Wells?

Issues: AOR breakdown; Set & Ty PLWC @ 4800' Run logs or turn in old ones
Request Sent Reply: