

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance Disposal _____ Storage
Application qualifies for administrative approval? 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 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 Mallow 11 State 5

WELL LOCATION: 1600' FSL & 1000' FEL

Sec 11, T25S, R29E

FOOTAGE LOCATION

UNIT LETTER I

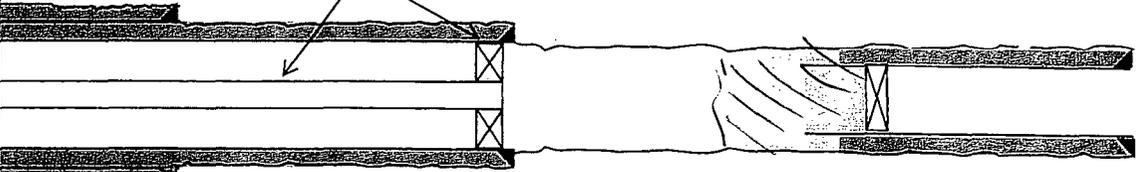
SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA



Surface Casing

Intermediate Casing

Production Casing

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

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

Hole Size: _____ Casing Size: _____

Cemented with: _____ *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Total Depth: 8000'

Injection Interval

3200' feet to 4800'

(Perforated or Open Hole; indicate which)

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? 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 ~~Depth~~ 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 ✓

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 Gas Well 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

SUBSEQUENT REPORT OF:

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

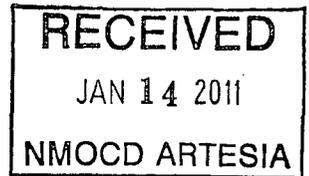
OTHER:

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): _____

MS

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

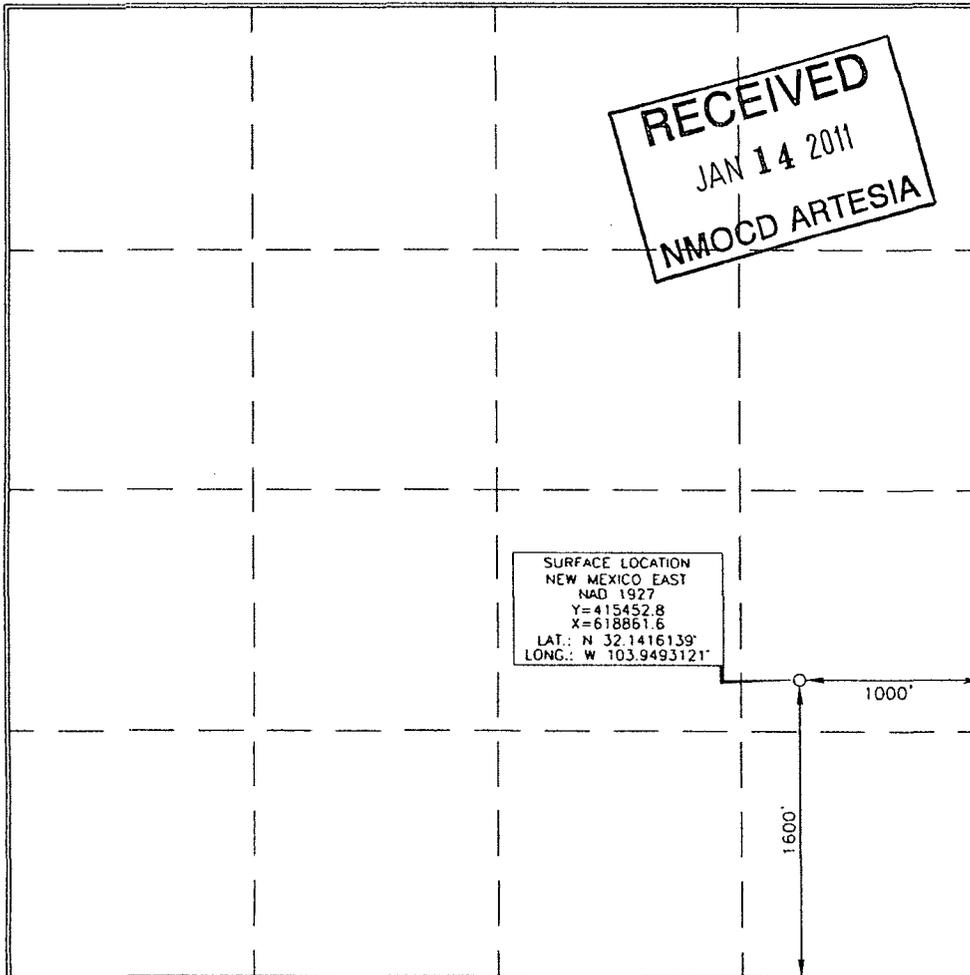
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	11	25 SOUTH	29 EAST, N.M.P.M.		1600'	SOUTH	1000'	EAST	EDDY

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.



RECEIVED
JAN 14 2011
NMOCD ARTESIA

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 surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 10 2011
Date of Survey
Terry J. Abel 1/11/2011
Signature and Seal of Professional Surveyor
Certificate Number 15079

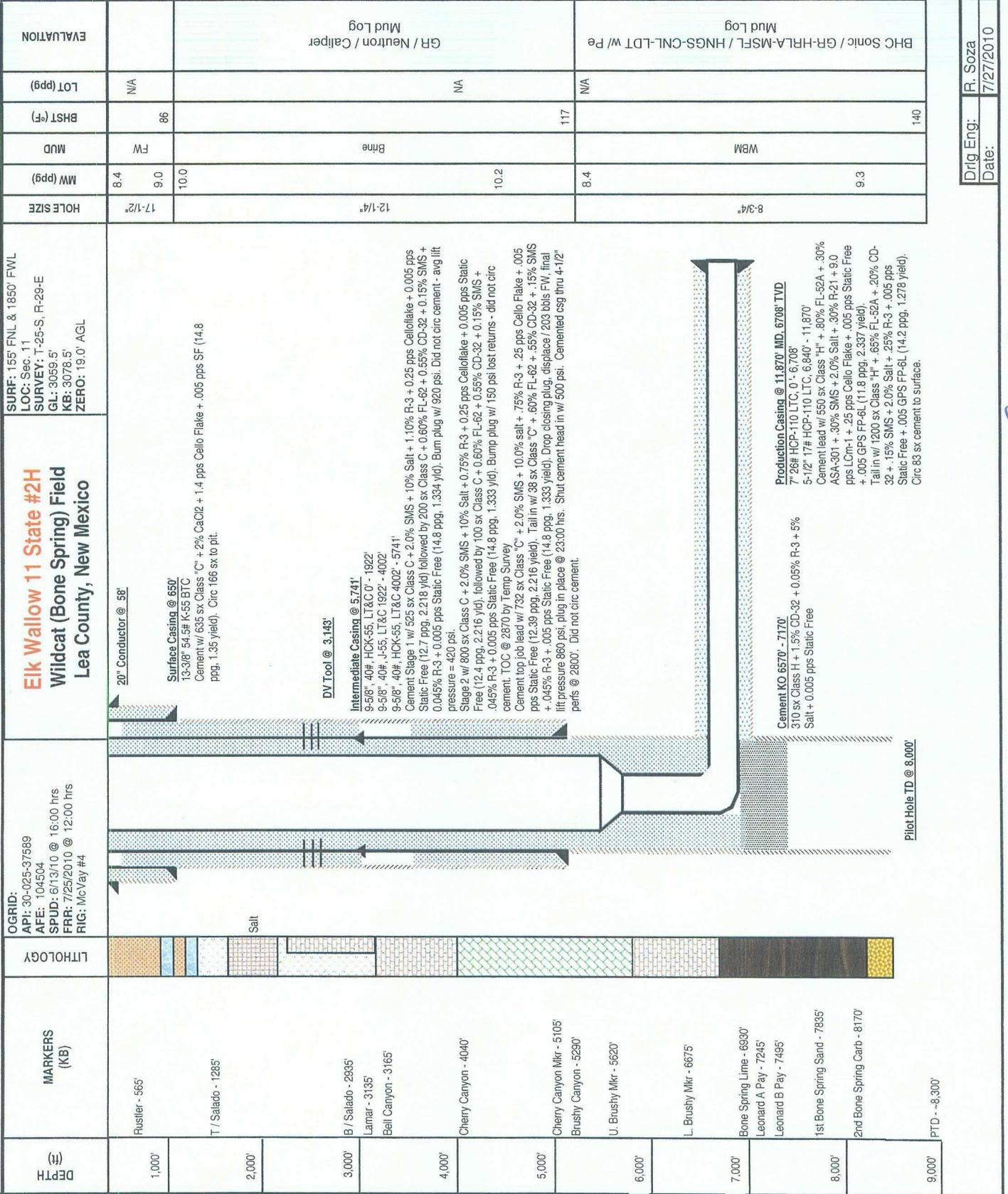
WO# 101118WL-a (Rev. A) (KA)

RAJ

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	Surface Casing		Production Casing		Producing Perforations
						Depth	Cement	Depth	Cement	
A. EOG	Elk Wallow 11 State 2H	Oil Produced	Sec 11, T25S, R29E	6/13/2010	11873'	650'	635 sx Class C	11870'	1750 sx Class H	7800' - 11695'
B. Lime Rock	Karisbad Corral SWD 1	Active SWD	Sec 11, T25S, R29E	1/31/2007	4000'	766'	550 sx Class C	3993'	1020 sx Class C	3652' - 3921'
C. Lime Rock	Karisbad Corral 11 State 3H	Oil Produced	Sec 11, T25S, R29E	2/8/2006	8685'	775'	500 sx Class C	8685'	850 sx H, 1300 sx C	5926' - 8510'

only ASR well



Elk Wallow 11 State #2H Wildcat (Bone Spring) Field
Lea County, New Mexico

SURF: 155' FNL & 1850' FWL
LOC: Sec. 11
SURVEY: T-25-S, R-29-E
GL: 3059.5'
KB: 3078.5'
ZERO: 19.0' AGL

20" Conductor @ 56'

Surface Casing @ 650'
 13-3/8" 54.5# K55 BTC
 Cement w/ 635 sx Class "C" + 2% CaCl2 + 1.4 pps Cello Flake + .005 pps SF (14.8 ppg, 1.35 yield). Circ 166 sx to pft.

DV Tool @ 3,143'

Intermediate Casing @ 5,741'
 9-5/8" 40# HCK-65, L1&C 0" - 1922'
 9-5/8" 40# J-35, L1&C 1922 - 4002'
 9-5/8" 40# HCK-55, L1&C 4002' - 5741'

Cement Stage 1 w/ 525 sx Class C + 2.0% SMS + 10% Salt + 1.10% R-3 + 0.25 pps Celloflake + 0.005 pps Static Free (12.7 ppg, 2.218 yld) followed by 200 sx Class C + 0.60% FL-62 + 0.55% CD-32 + 0.15% SMS + 0.045% R-3 + 0.005 pps Static Free (14.8 ppg, 1.334 yld). Bump plug w/ 920 psi. Did not circ cement - avg lift pressure = 420 psi.

Stage 2 w/ 800 sx Class C + 2.0% SMS + 10% Salt + 0.75% R-3 + 0.25 pps Celloflake + 0.005 pps Static Free (12.4 ppg, 2.216 yld), followed by 100 sx Class C + 0.60% FL-62 + 0.55% CD-32 + 0.15% SMS + 0.045% R-3 + 0.005 pps Static Free (14.8 ppg, 1.333 yld). Bump plug w/ 150 psi lost returns - did not circ cement. TOC @ 2870 by Temp Survey.

Cement top job lead w/ 732 sx Class "C" + 2.0% SMS + 10.0% salt + .75% R-3 + .25 pps Cello Flake + .005 pps Static Free (12.39 ppg, 2.216 yld). Tail in w/ 38 sx Class "C" + .60% FL-62 + .55% CD-32 + .15% SMS + 0.045% R-3 + 0.005 pps Static Free (14.8 ppg, 1.333 yld). Drop closing plug, displace / 203 bbls FW, final lift pressure 860 psi, plug in place @ 23:00 hrs. Shut cement head in w/ 500 psi. Cemented csg thru 4-1/2" perfs @ 2800'. Did not circ cement.

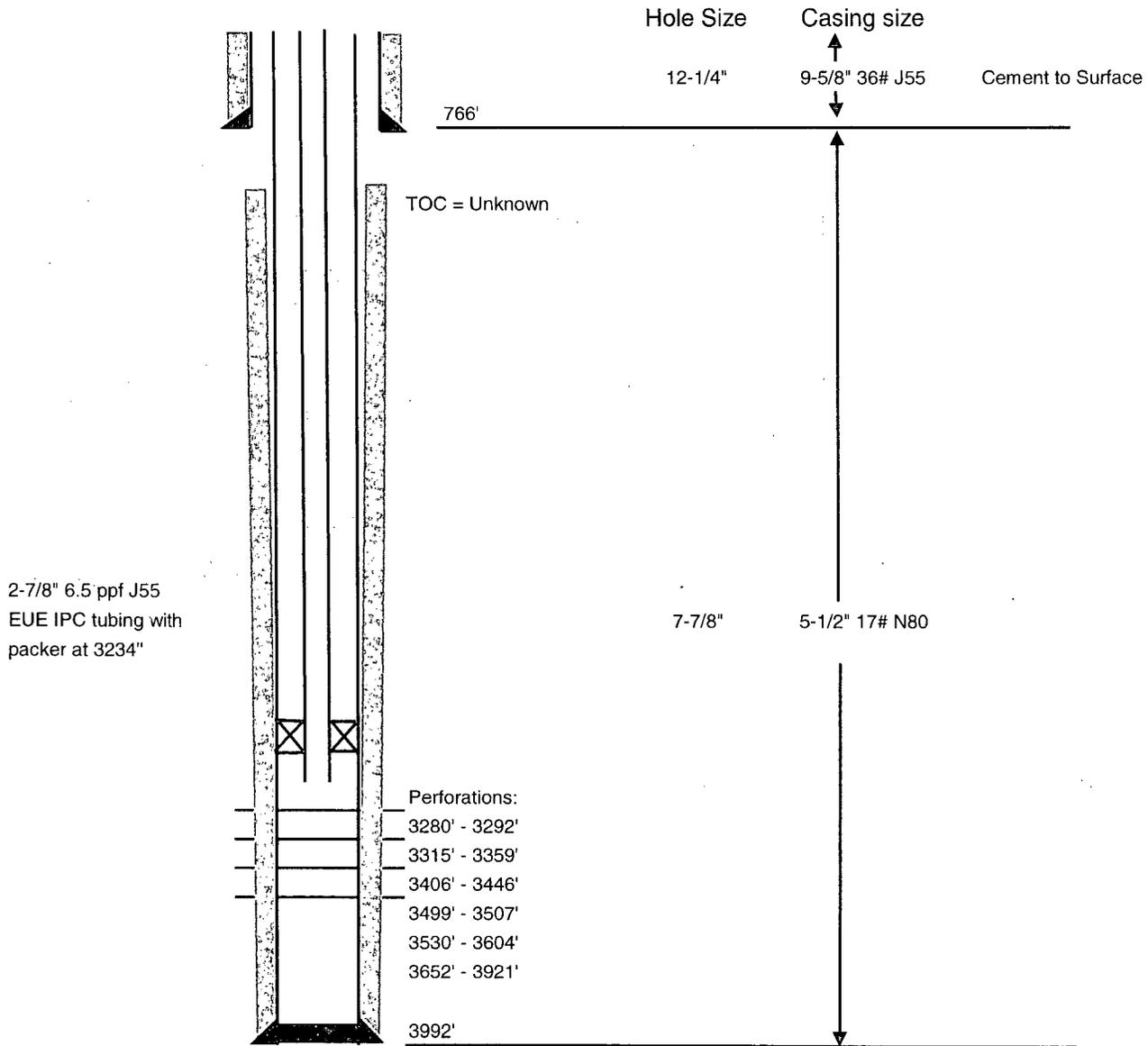
Cement KO 6570 - 7170'
 310 sx Class H + 1.5% CD-32 + 0.05% R-3 + 5% Salt + 0.005 pps Static Free

Production Casing @ 11,870' MD, 6708' TVD
 7" 26# HCP-110 LTC, 0" - 6708'
 5-1/2" 17# HCP-110 LTC, 6840' - 11,870'
 Cement lead w/ 550 sx Class "H" + 80% FL-52A + 30% ASA-301 + .30% SMS + 2.0% Salt + .30% R-21 + 9.0 pps LCM-1 + .25 pps Cello Flake + .005 pps Static Free + .005 GFS FP-6L (11.8 ppg, 2.337 yld).
 Tail in w/ 1200 sx Class "H" + .65% FL-52A + .20% CD-32 + 15% SMS + 2.0% Salt + 25% R-3 + .005 pps Static Free + .005 GFS FP-6L (14.2 ppg, 1.275 yld).
 Circ 83 sx cement to surface.

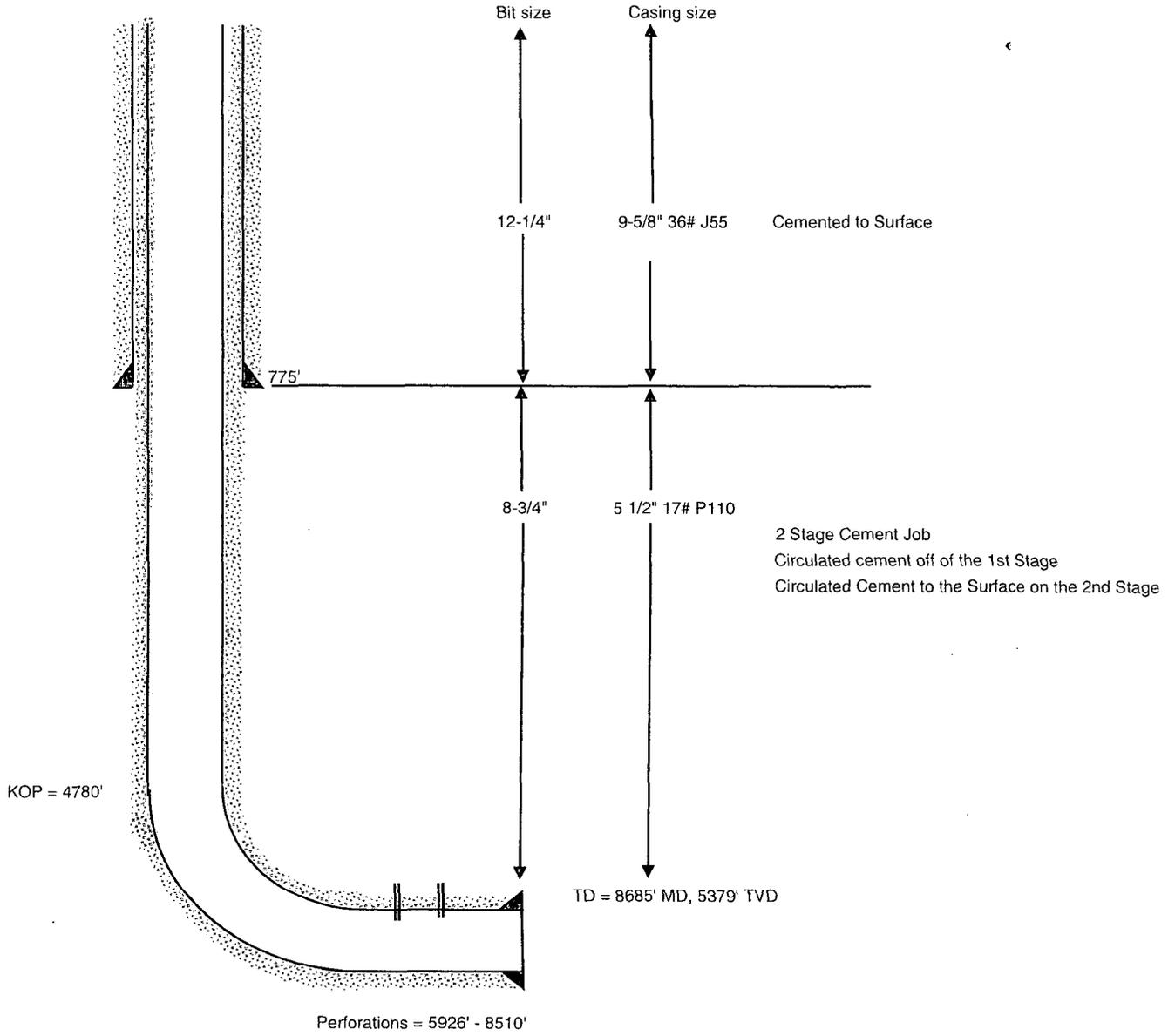
DEPTH (ft)	MARKERS (KB)	LITHOLOGY	HOLESIZE	MWD (ppg)	MUD	BHST (F)	LOT (ppg)	EVALUATION
1,000'	Rustler - 565'		17-1/2"	8.4	FW	86	N/A	
2,000'	T / Salado - 1285'	Salt		9.0				
3,000'	B / Salado - 2935' Lamar - 3135' Bell Canyon - 3165'		12-1/4"	10.0	Brine			GR / Neutron / Caliper Mud Log
4,000'	Cherry Canyon - 4040'							
5,000'	Cherry Canyon Mkr - 5105' Brushy Canyon - 5290'			10.2				
6,000'	U. Brushy Mkr - 5620' L. Brushy Mkr - 6675'							
7,000'	Bone Spring Lime - 6630' Leonard A Pay - 7245' Leonard B Pay - 7495'		8-3/4"	8.4	WBM	117	N/A	BHC Sonic / GR-HRA-MSF / HNGS-CNL-LDT w/ Pe
8,000'	1st Bone Spring Sand - 7835' 2nd Bone Spring Carb - 8170'							
9,000'	PTD - 8,300'							

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

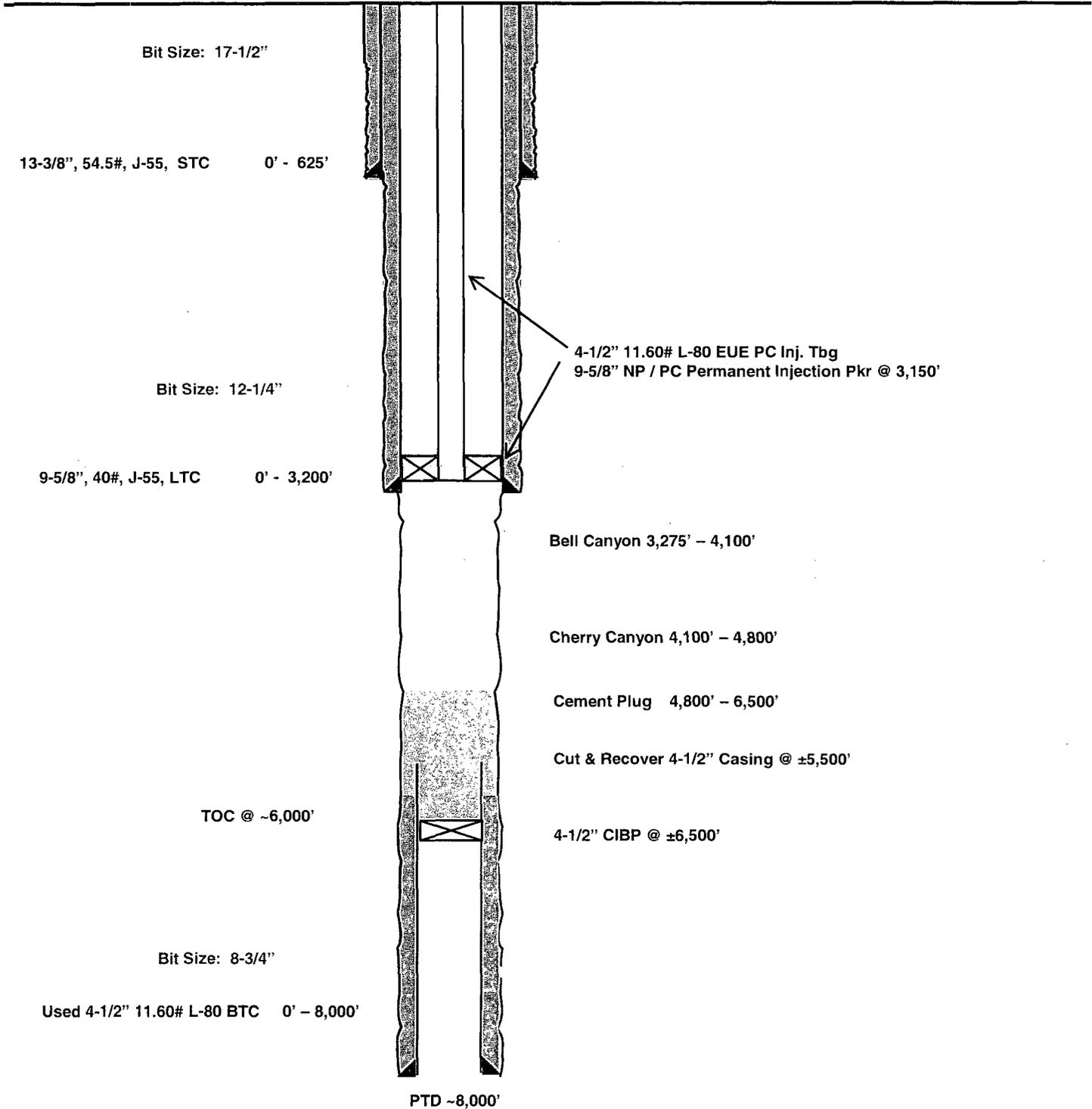
Eddy County, New Mexico

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 basin	Use	County	Q Q Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	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 Well	Depth Water	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
 HOG RESOURCES
 P.O. BOX 3229
 CARLSBAD, NEW MEXICO 88220
 SAMPLE SOURCE: ELK WALLOW 11 STATE COM #1-H

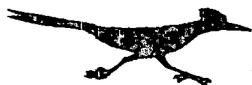
ANALYSIS COMPLETED: 09-23-2010
 SAMPLE RECEIVED: 09-23-2010
 LAB NUMBER: 6901

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

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 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
H2S	0 mg/L	MAGNESIUM HARDNESS (AS CaCO3)	3200 mg/L
CO2	616 mg/L	TOTAL HARDNESS (AS CaCO3)	6800 mg/L
IRON	60.00 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 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.

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
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.

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 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 @ 77 °F	281400 μ MHOS/CM	CALCIUM HARDNESS (AS CaCO3)	4800 mg/L
H2S	0 mg/L	MAGNESIUM HARDNESS (AS CaCO3)	1100 mg/L
CO2	634 mg/L	TOTAL HARDNESS (AS CaCO3)	5900 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
 Resistivity measured in Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST: John Eubank

W

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

REMARKS

MPL = Milligrams per liter
 Resistivity 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 OCD
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 Mbw 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 florescence 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 florescence, 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 Mbw since 5/1997. These sands exhibited some florescence & 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:

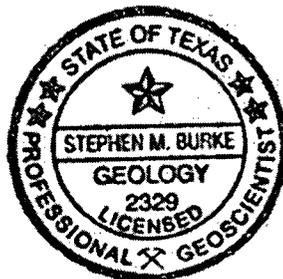
Quad-Combo; T.D. (8000') – Casing (3200'). Density, Neutron, Gamma Ray, Caliper, PE, Laterolog & Sonic.

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

2. Article Number
(Transfer from service label)

7009 3410 0000 0960 9031

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 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



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.

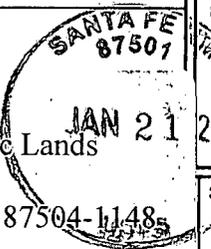
This application is provided to you as owner of the surface of the land upon which the subject well is located. If you object to this application your objection must be filed in writing with the Santa Fe Office of the Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New 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 that reads "Stan Wagner".

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ 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. 	<p>A. Signature X <i>[Handwritten Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p style="text-align: center;">  State of New Mexico Commissioner of Public Lands 310 Old Santa Fe Trail Santa Fe, New Mexico 87504-1148 </p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <hr/> <p>3. Service-Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number 7009 3410 0000 0960 9024 (Transfer from service)</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	



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 THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ 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. 	<p>A. Signature</p> <p>X <i>[Handwritten Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>
<p>1. Article Addressed to:</p> <p>OXY Y-1 5 Greenway Plaza, Suite 110 Houston, TX 77046-0521</p>	<p>B. Received by (Printed Name) / C. Date of Delivery</p> <p><i>Mike Hall / 8-14-11</i></p>
	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. A <i>0</i> 7009 3410 0000 0960 9123</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	



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

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- 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 *[Handwritten Signature]*

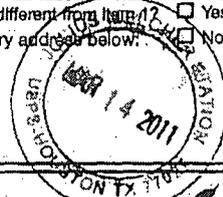
- Agent
- Addressee

B. Received by (Printed Name)

[Handwritten 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
- Registered
- Insured Mail
- Express Mail
- Return Receipt for Merchandise
- C.O.D.

4. Restricted Delivery? (Extra Fee)

- Yes

2. Article Num
(Transfer fn)

7009 3410 0000 0960 9116



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.

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", written over a horizontal line.

Stan Wagner
Regulatory Analyst

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ 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. 	A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <p style="text-align: center;">Yates Petroleum Corporation 105 S. Fourth St. Artesia, NM 88210</p>	B. Received by (Printed Name) <i>D. Carrera</i>	C. Date of Delivery <i>3-11-11</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Numt (Transfer fro)	7009 3410 0000 0960 9109	
PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540		

3. Service Type	
<input checked="" type="checkbox"/> Certified Mail	<input type="checkbox"/> Express Mail
<input type="checkbox"/> Registered	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Insured Mail	<input type="checkbox"/> C.O.D.
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	



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

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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

- 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:

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 [Signature] Addressee

B. Received by (Printed Name) C. Date of Delivery
Robert D. Carrera 3-11-11

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 No. 7009 3410 0000 0960 9093
 (Transfer)



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:

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Sincerely,

EOG RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Stan Wagner".

Stan Wagner
Regulatory Analyst

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?
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- 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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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:

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 - d. E/2 of Section 11 (Except for Unit Letters A and B)
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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

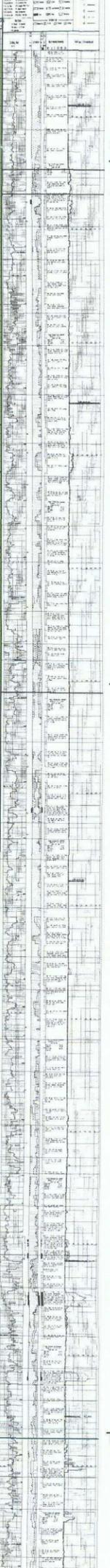
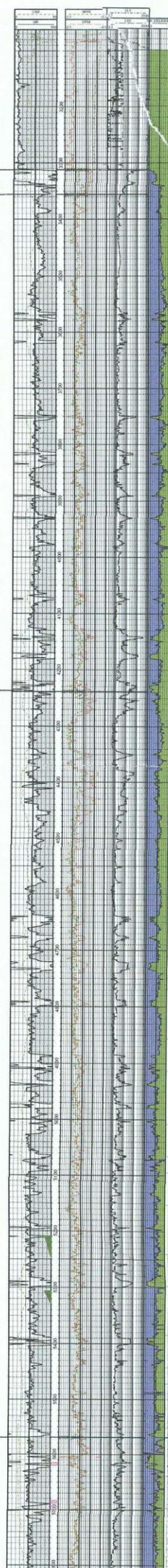
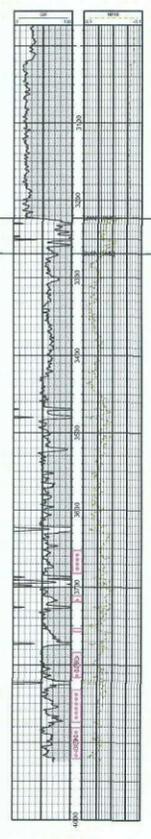
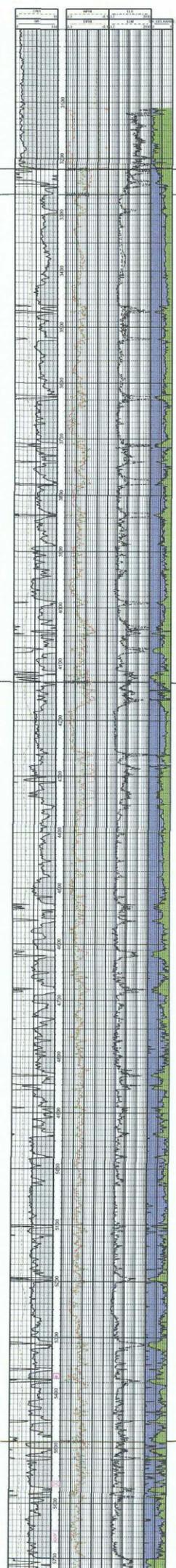
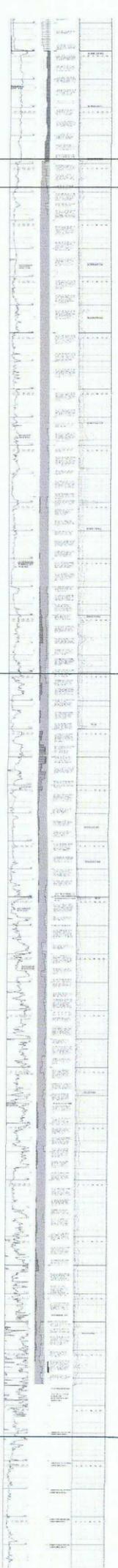
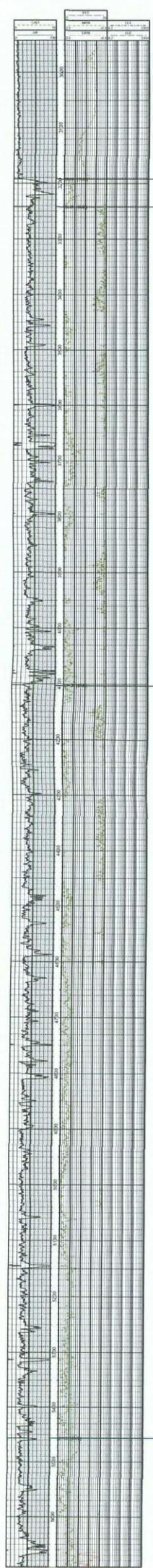
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 CORRAL FLY '11' STA
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 2

30015353410000
 LIME ROCK RESOURCES A LP
 KARLSBAD CORRAL SWD
 1
 3

30015292560000
 OXY USA INC
 BRADLEY '13' FEDERA
 1
 4



DATE	TIME	WELL	DEPTH	LOG
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01/15/11	08:00	30015287160000	0-1000	LOG
01/15/11	08:00	30015353410000	0-1000	LOG
01/15/11	08:00	30015292560000	0-1000	LOG



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 II STATE #5

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

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

Company: INC. Contact: STON WAGNER

Compliance (Wells): 2/930 (Finan Assur) OK IS 5.9 OK? OK

NOT DRILLED

Link to Well:

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

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination 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	8000'	Pulled PIPE		
New Existing Liner					
New Existing OpenHole	8 3/4 (3200 - 4800)				

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	3200 3275	Dell Bell C.	✓ ✓	
Injection TOP:	3209	Bell C.	Max. PSI 640	OpenHole ✓ Perfs
Injection BOTTOM:	4800	Cherry C.	Tubing Size 4 1/2	Packer Depth 3150
Formation(s) Below				

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/ABOPAY/YPC/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' Request Sent Reply: Run logs or turn in old logs