

DATE IN 01/24/14	SUSPENSE	ENGINEER PRG	LOGGED IN 01/23/14	TYPE SWD	APP NO. PRG1402859907
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

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

EOG Resources
Triste Draw 3 Fed #1
30-025-34518
[Active/Gas Johnson Ranch w/10camp]
Delaware Internal

- [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

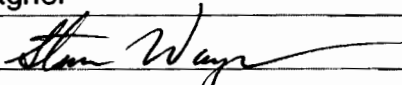
Stan Wagner
 Signature

Regulatory Analyst
 Title

1/15/14
 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, TX 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: 01/15/2014
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: Item X: type log previously submitted for SWD Order-1359

APPLICATION FOR AUTHORIZATION TO INJECT
TRISTE DRAW 3 FED NO. 1

VII. PROPOSED OPERATION

- (1) Proposed Average Daily Rate and Volume: 5200 BWIPD
Proposed Maximum Daily Rate and Volume: 10000 BWIPD
- (2) Open or Closed System: Closed
- (3) Proposed Average Injection Surface Pressure: 1000 psi
Proposed Maximum Injection Surface Pressure: 2000 psi
Note: Original Delaware formation BHP 9500 psi.
- (4) Produced Bone Spring Formation Water (see attached analysis)
- (5) N/A

0.2 psi

VIII. GEOLOGIC DATA ON INJECTION ZONE

Injection Zone: Delaware Sandstone Perfs 5000' – 7200'
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.

Ehron's 4/15/99 Sunday

Delaware 5148'

BS - 9278'

3rd BS - 11940'

WC - 12418'

IX. PROPOSED STIMULATION

72 bbls Acetic Acid across perforations

X. LOGGING AND TESTING DATA ON INJECTION WELL

Logs have been previously submitted for this well.

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

A review of the State Engineers records shows two freshwater 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:

United States Bureau of Land Management
620 E. Greene
Carlsbad, NM 88220

Operators within a ½ mile radius of the proposed injector:

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702

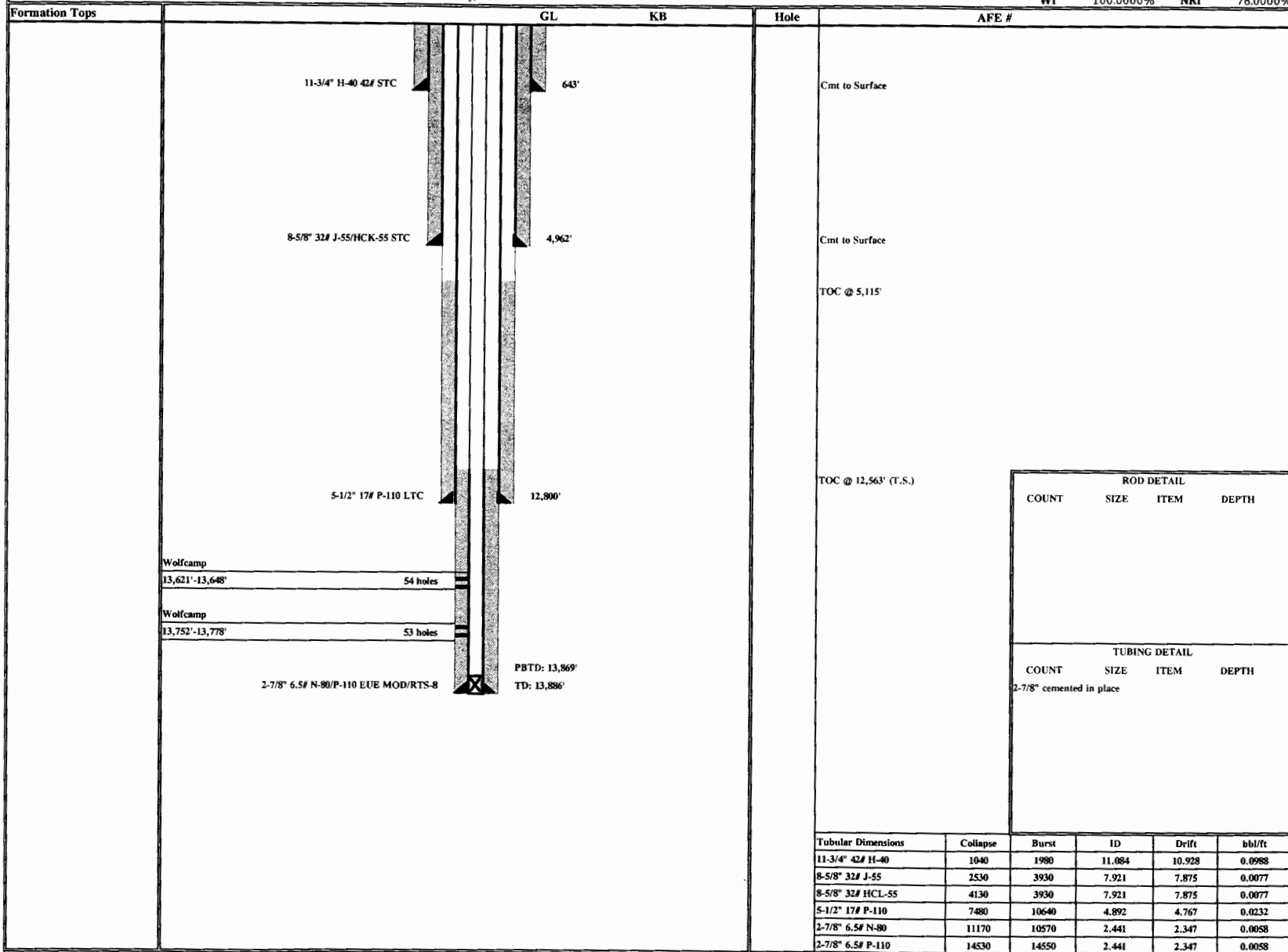
CURRENT WELLBORE

TRISTE DRAW 3 FED #1

API# 30-000-0000
Sect 3, T25S, R33E
1826' FNL & 660' FEL
Lea County, NM



SPUD TD
DRILLING
LAST REVISED 11/4/2013 SMB
WI 100.0000% NRI 78.0000%



Side 1

INJECTION WELL DATA SHEET

OPERATOR: EOG Resources, Inc.WELL NAME & NUMBER: Triste Draw 3 Fed 1WELL LOCATION: 1826' FNL & 660' FEL

FOOTAGE LOCATION

H

UNIT LETTER

3

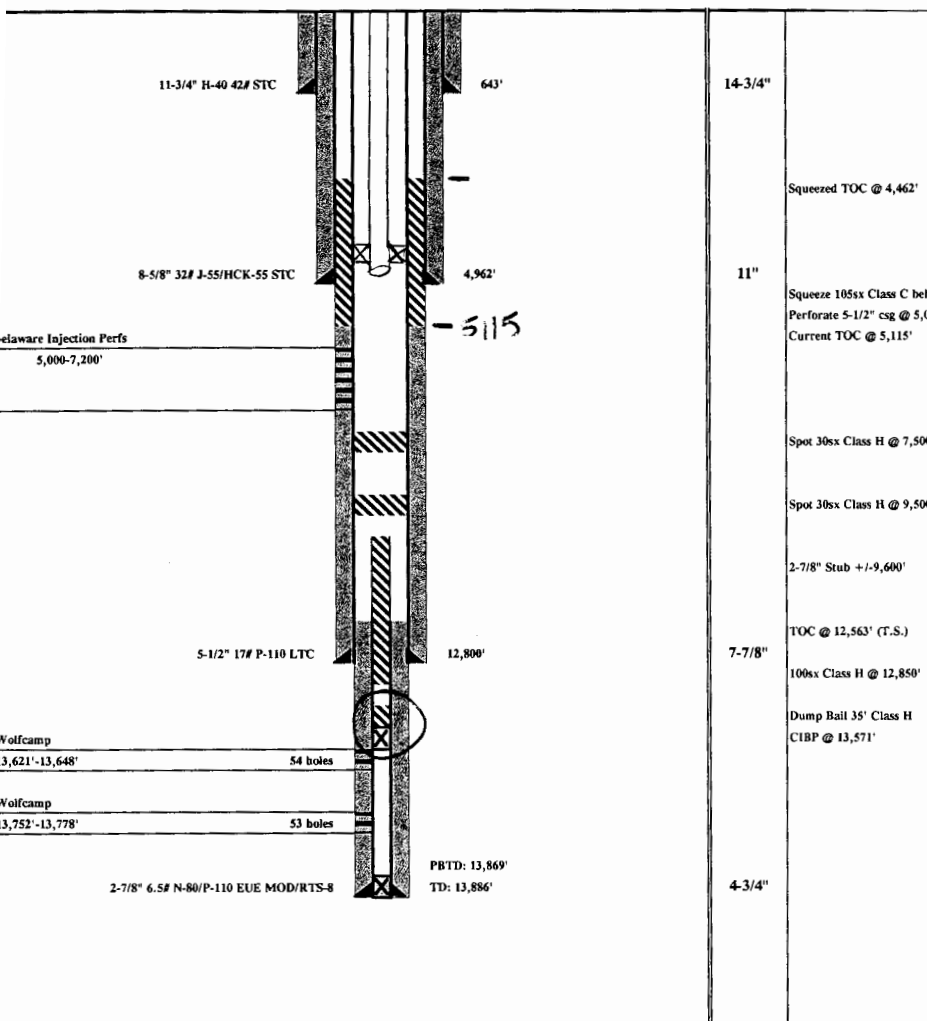
SECTION

25S

TOWNSHIP

33E

RANGE

WELLBORE SCHEMATIC**WELL CONSTRUCTION DATA****Surface Casing**

Hole Size: 14-3/4" Casing Size: 13-3/8" @ 643'

Cemented with: 350 SX. or ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: 11" Casing Size: 8-5/8" @ 4962'

Cemented with: 1025 SX. or ft³

Top of Cement: Surface Method Determined: Circulation

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2" @ 12800'

Cemented with: 1160 SX. or ft³

Top of Cement: 5115' Method Determined: TS

Total Depth: 13866'

Injection Interval

5000 feet to 7200

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

OPERATOR: EOG Resources, Inc.WELL NAME & NUMBER: Triste Draw 3 Fed 1

WELL LOCATION:	<u>1826' FNL & 660' FEL</u>	<u>H</u>	<u>3</u>	<u>25S</u>	<u>33E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: 4-3/4" Casing Size: 2-7/8" @ 13866'Cemented with: 135 sx. or _____ ft³Top of Cement: 12563' Method Determined: TSTotal Depth: 13866Injection Interval_____ 5000 feet to 7200 _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" Lining Material: Plastic Coated
Type of Packer: 5-1/2" Plastic Coated / Nickel Plated Injection Packer
Packer Setting Depth: +/- 4950'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes X No
If no, for what purpose was the well originally drilled? Production

2. Name of the Injection Formation: Delaware
3. Name of Field or Pool (if applicable): SWD; Delaware
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. _____
Wolfcamp 13621 - 13778' . Plugback procedure enclosed.
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Bone Spring	9278'
3rd Bone Spring Sand	11940'
Wolfcamp	12418'

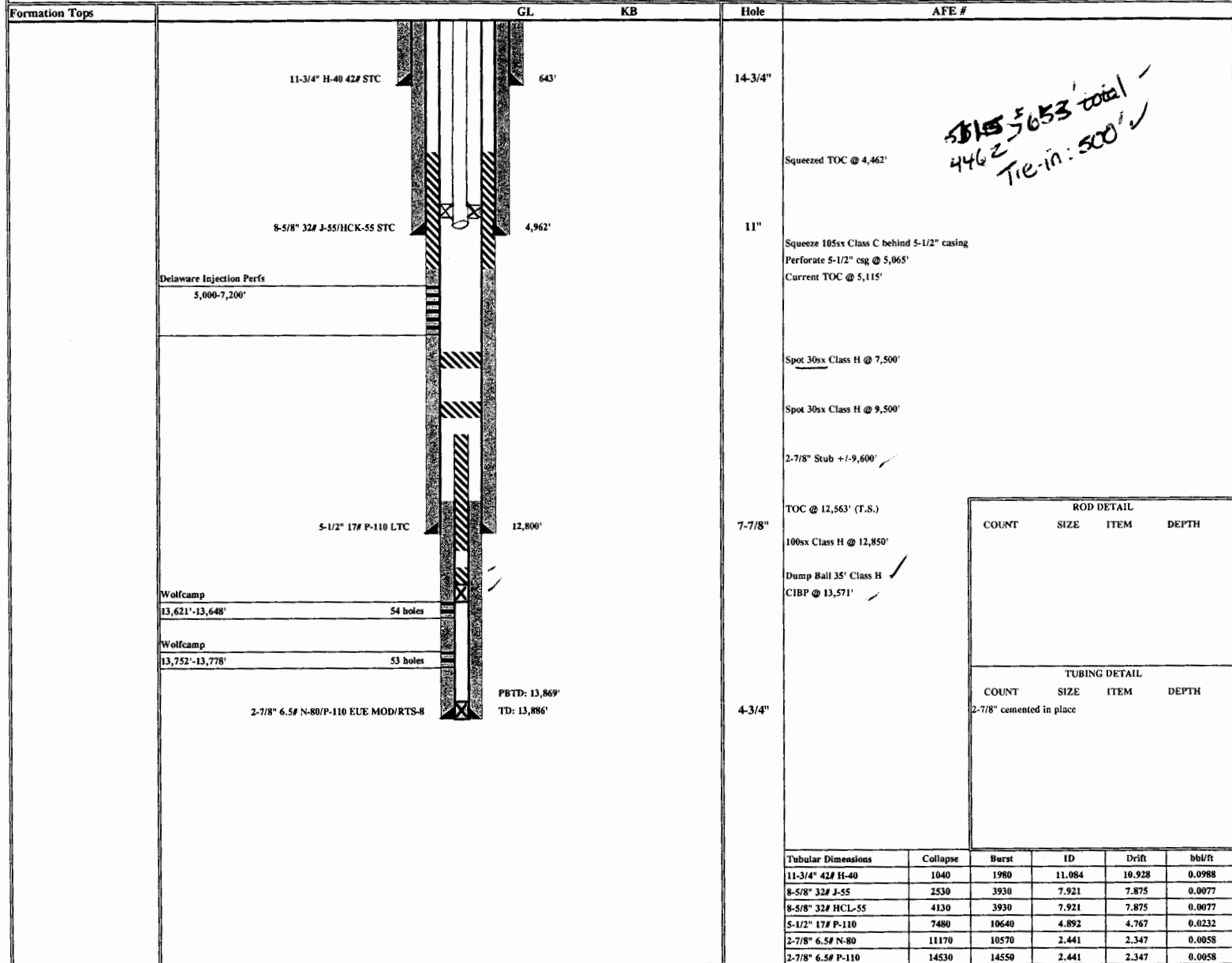
PROPOSED WELLBORE

TRISTE DRAW 3 FED #1

API# 30-000-0000
Sect 3, T25S, R33E
1826' FNL & 660' FEL
Lea County, NM



SPUD TD
DRILLING
LAST REVISED 11/4/2013 SMB
WI 100.0000% NRI 78.0000%





TRISTE DRAW 3 FED #1 SWD CONVERSION

SECT 3, T25S, R33E

1826' FNL & 660' FEL

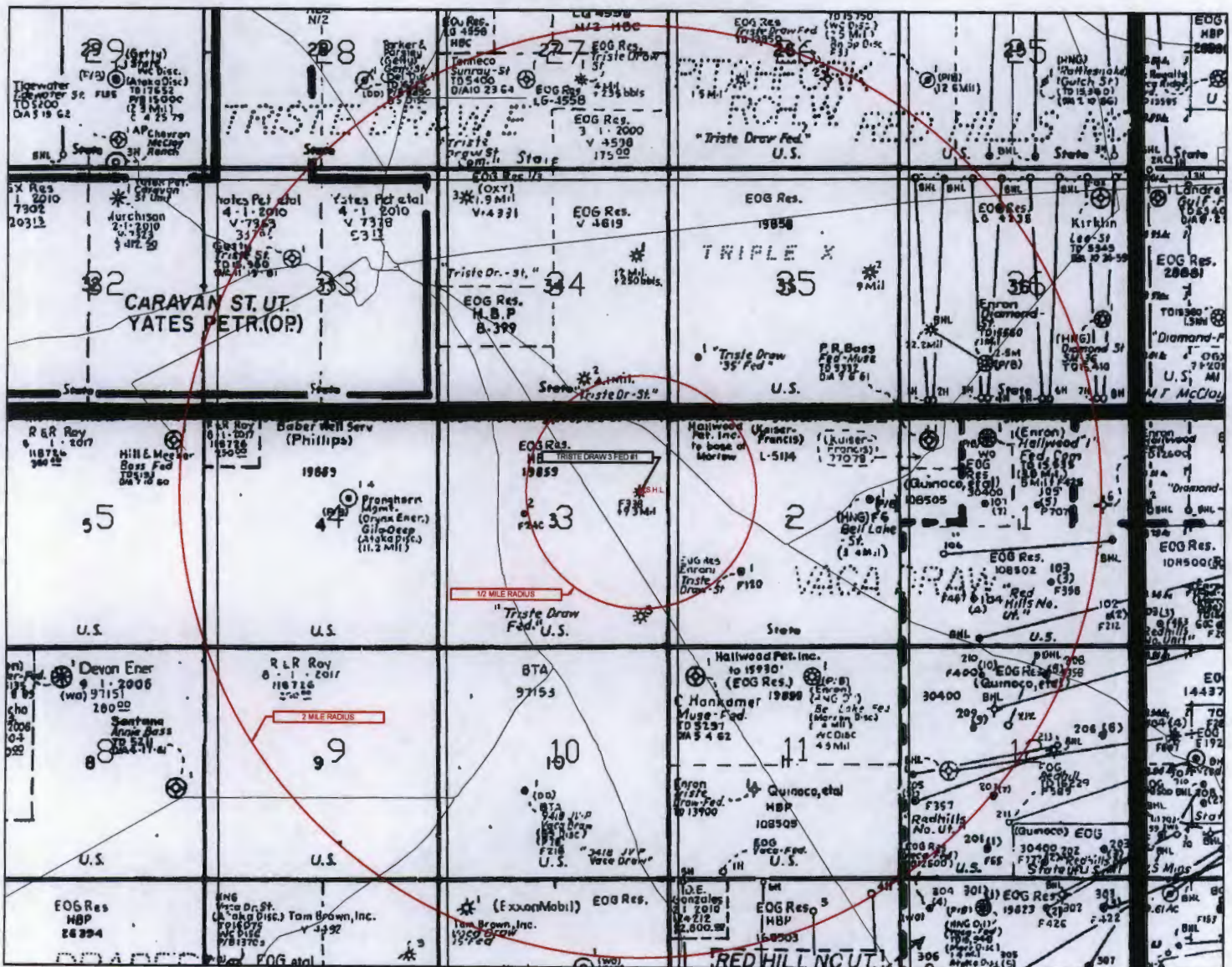
API: 30-025-34518

1. Set CIBP @ 13,571'
2. Bail 2sx (35') Class H cement on CIBP and **TAG**
3. Cut and recover 2-7/8" tubing at $\pm 9,600'$
4. Spot 100sx Class H inside 2-7/8" tubing and fill tubing from 12,850' to top of stub at $\pm 9,600'$
5. Spot 30sx Class H @ 9,500' (Bone Spring) and **TAG**
6. Spot 30sx Class H @ 7,500' and **TAG**
7. Perforate 5-1/2" casing @ $\pm 5,065'$ (50' above TOC behind 5-1/2" casing)
8. Squeeze 100sx Class C @ 5,065' to bring TOC behind 5-1/2" casing to 4,462'. Verify new TOC with CBL.
9. Perforate 5-1/2" casing across Delaware injection interval from 5,000'-7,200'
10. Run 2-7/8" injection string, set 5-1/2" packer at 4,950'
11. Run MIT on 5-1/2"X2-7/8" annulus
12. After good MIT, put well on injection



EOG resources, inc.

**SECTION 3, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO**



LEASE NAME & WELL NO.: TRISTE DRAW 3 FED #1
#1 LATITUDE N 32.1616913 **#1 LONGITUDE** W 103.5531710

LEGEND

- == == == == ROAD WAY
- - - - - SECTION LINE
- - - - - EXISTING PIPELINE
- x - - - FENCE LINE

N

SCALE: NTS

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

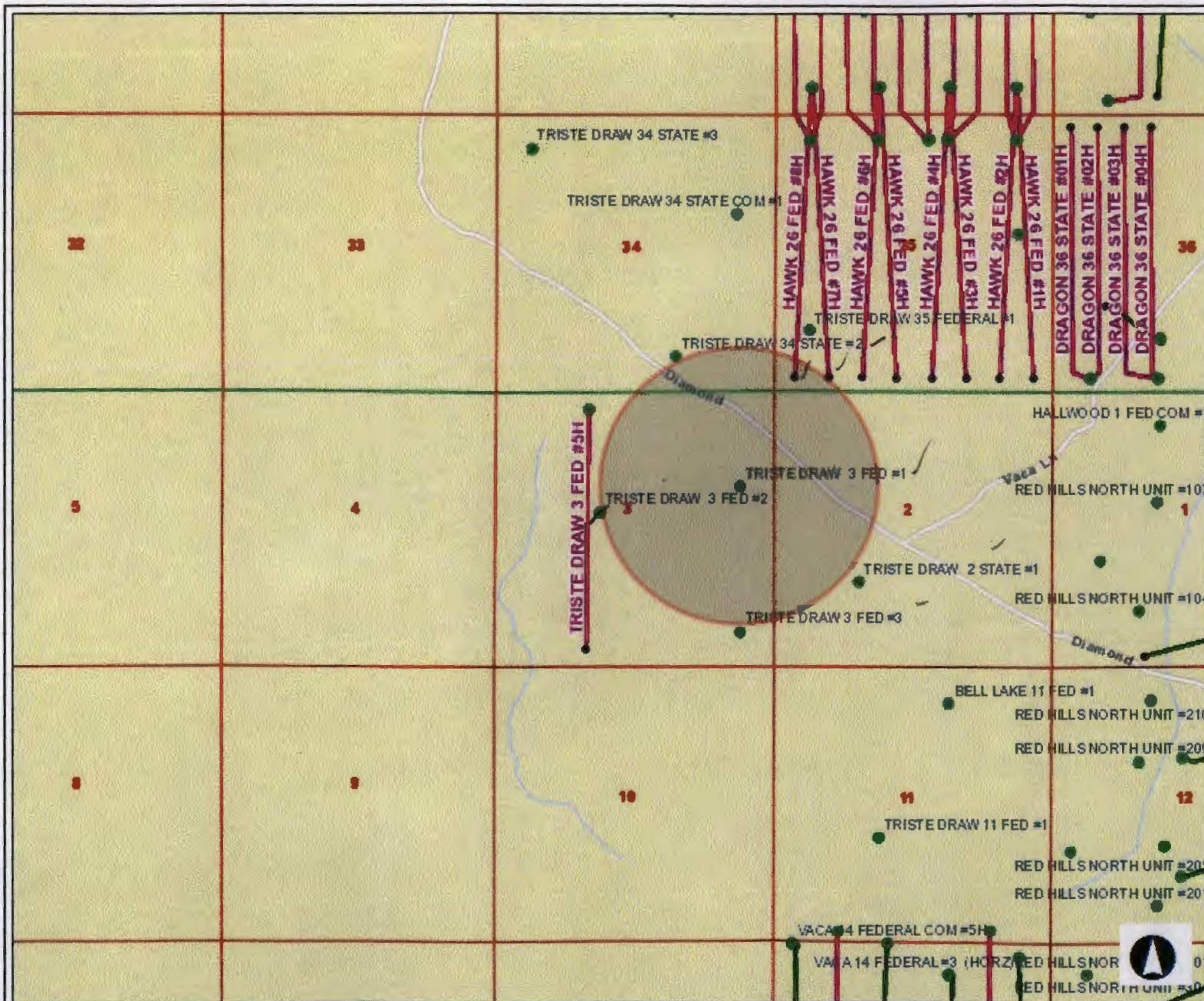
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 14"

TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS

2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1853 • FAX (432) 682-1743
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
 2225 PERRYTON PARKWAY • PAMPA, TEXAS 79065
 TELEPHONE: (806) 665-7218 • FAX (806) 665-7210
 WWW.TOPOGRAPHIC.COM



Legend

- EOG Well top
- EOG Well bottom
- EOG Well Path
 - Completed
 - Drilling
 - Proposed/Planned, Spudded
 - Waiting on Completion

6,413.5 0 3,206.75 6,413.5 Feet

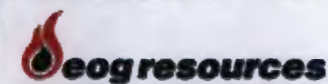
1: 38,481

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Date: 11/7/2013



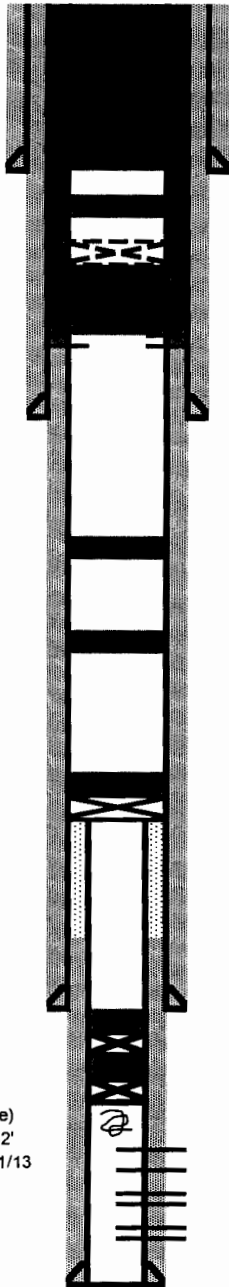
TRISTE DRAW 3 FED 1

1/2 Mile Area of Review
1826' FNL & 660' FEL
Sec 3, T25S, R33E

Author: Lea County, NM

EOG Resources, Inc
1/2 Mile Area of Review
Application for Authorization to Inject Triste Draw 3 Fed 1

[illegible]



11-3/4" 42# H-40 STC @ 667'
(Circulated cement to surface) ✓

TOC @ 4,354'

8-5/8" 32# J/HCK-55 STC @ 4,921'
(Circulated cement to surface) ✓

TOC @ 11,579'

5-1/2" 17# P-110 LTC @ 12,837

Wolfcamp Perfs (13,301' - 13,364')

Wolfcamp Perfs (13,556' - 13,657')

Wolfcamp Perfs (13,776' - 13,786')

2-7/8" 6.5# N-80/P-110/L-80
CS/EUE/MOD @ 13,912'

80sx Class C from 747' to surface.

50sx Class C @ 1,208'

CICR @ 2645'

Perforated 5-1/2" @ 4,329. Pumped 820sx Class C and 60sx Class H, circulated cmt to surface

11/21/2013 30 sxs Class C @ 5,160'. Tagged at 4,991' 11/21/2013

11/21/2013 30 sxs Class H @ 7,600'

11/19/2013 43 sxs Class H @ 9,598', tagged at 9,168' 11/20/13

11/18/2013 5-1/2" CIBP @ 9,599'. Tagged at 9,598

14ppg mud in annulus

10/15/2013 CIBP set @ 12,942'

10/12/2013 Dump Bailed 2.25sx Class H. TOC @ 12,873', tag witnessed by Pat McKelvey of BLM 10/15/13.

10/11/2013 CIBP @ 12,942', Dump bail 2 sx Class H

Fish (sandline)
Top @ 12,942'
Tagged 10/11/13

TD: 13,915'

on AOP
Border
OK

WELLBORE SCHEMATIC

11-3/4" 42# H40 STC @ 677' (circ. cmt.)

TOC @ 4,470' (calc.)

8-5/8" 32# J-55/HCK-55 STC @ 4,974' (circ. cmt.)

TOC @ 12,060' (l.s.)

5-1/2" 17# P-110 LTC @ 12,856'

11/20/02 - CT drillout & 1400 gal 15% HCL

2-7/8" 6.5# P110/L-80 CSCB/EUE 8rd @ 13,900'

TD @ 13,870' PBD 13,760' (WL)

Bell Lake & Add. Lwr. Wolfcamp Perfs:
13553'-13691' (OA)

07/13/99-Perf 13671'-13673'

(3 holes, 1SPF, 0° phased)

13687'-13691' (5 holes, 1SPF, 0° phased)

07/14/99-Perf 13553'-13557'

(5 holes, 1SPF, 0° phased)

13564'-13569' (6 holes, 1SPF, 0° phased)

07/16/99-4633 MCFD, 113 BOPD, 64/64" chk.

900 FTP, 22 BLWPD

07/20/99-Frac w. 12750 gals. 15% VCA acid +

25% CO2 + 22 BS. ISIP=5180#

07/21/99-5614 MCFD, 178 BOPD, 64/64" chk.

850 FTP, 37 BLWPD

07/31/99-3732 MCFD, 149 BOPD, 64/64" chk.

850 FTP, 300 CP, 7 BLWPD

Lwr. Wolfcamp Perfs: 13611'-13619'

06/21/99-Perf (9 holes, 1SPF)

Spot 500 gals. acid. ISIP=5248#, 5 min=

4827#, 10 min=4611#, 15 min=4483#

06/22/99-1670 MCFD, 2 BOPD, 760 FTP,

0 BLWPD

06/25/99-Frac w/ 12000 gals. 15% ZCA acid +

25% CO2. ISIP=5750#, 5 min=5524#,

10 min=5382#, 15 min=5283#

06/26/99-8100 MCFD, 30 BOPD, 2500 FTP, 250

CP, 28 BLWPD, 17/64" chk.

07/06/99-3352 MCFD, 17 BOPD, 810 FTP,

64/64" chk., 200 CP, 0 BLWPD



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

C 03603 POD4

3 2 4 35 24S 33E

637789 3560461

Driller License: ENVIRO-DRILL, INC,

Driller Name: RODNEY HAMMER

Drill Start Date: 01/14/2013

Drill Finish Date: 01/14/2013

Plug Date:

Log File Date: 01/30/2013

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

Depth Water:



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

C 03603 POD6

3 1 3 35 24S 33E

636749 3560447

Driller License: ENVIRO-DRILL, INC,

Driller Name: RODNEY HAMMER

Drill Start Date: 01/13/2013

Drill Finish Date: 01/13/2013

Plug Date:

Log File Date: 01/30/2013

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

Depth Water:

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.



Catalyst Oilfield Services
 11999 E Hwy 158
 Gardendale, TX 79758
 (432) 563-0727
 Fax: (432) 224-1038

Water Analysis Report

Customer:	EOG Resources - Permian	Sample #:	16230
Area:	Jal Area	Analysis ID #:	17130
Lease:	Section 32		
Location:	Freshwater Well		0
Sample Point:	Wellhead		

Sampling Date: 12/12/2013		Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date: 12/13/2013		Chloride:	27.7	0.78	Sodium:	178.9	7.78
Analyst: Catalyst		Bicarbonate:	480.7	7.88	Magnesium:	10.0	0.82
TDS (mg/l or g/m3): 758.9		Carbonate:			Calcium:	13.8	0.69
Density (g/cm3): 1.003		Sulfate:	40.0	0.83	Potassium:	6.0	0.15
Hydrogen Sulfide: 0					Strontium:	1.6	0.04
Carbon Dioxide: 0					Barium:	0.0	0.
Comments		pH at time of sampling:		6.74	Iron:	0.2	0.01
		pH at time of analysis:			Manganese:	0.000	0.
		pH used in Calculation:		6.74			
		Temperature @ lab conditions (F):		75	Conductivity (micro-ohms/cm):		934
					Resistivity (ohm meter):		10.7066

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.94	0.00	-2.67	0.00	-2.74	0.00	-1.88	0.00	0.00	0.00
100	-0.80	0.00	-2.66	0.00	-2.67	0.00	-1.85	0.00	0.00	0.00
120	-0.65	0.00	-2.65	0.00	-2.57	0.00	-1.81	0.00	0.00	0.00
140	-0.49	0.00	-2.63	0.00	-2.46	0.00	-1.77	0.00	0.00	0.00
160	-0.32	0.00	-2.60	0.00	-2.33	0.00	-1.71	0.00	0.00	0.00
180	-0.14	0.00	-2.57	0.00	-2.19	0.00	-1.65	0.00	0.00	0.00
200	0.04	1.05	-2.54	0.00	-2.04	0.00	-1.59	0.00	0.00	0.00
220	0.23	4.20	-2.51	0.00	-1.88	0.00	-1.52	0.00	0.00	0.00



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	EOG Resources - Permian	Sample #:	16231
Area:	Jal Area	Analysis ID #:	17131
Lease:	Section 13		
Location:	Freshwater Well		0
Sample Point:	Wellhead		

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	12/12/2013	Chloride:	2255.1	Sodium:	220.4
Analysis Date:	12/13/2013	Bicarbonate:	451.4	Magnesium:	30.3
Analyst:	Catalyst	Carbonate:		Calcium:	43.5
TDS (mg/l or g/m3):	5716	Sulfate:	120.0	Potassium:	7.3
Density (g/cm3):	1.006			Strontium:	2588.0
				Barium:	0.0
Hydrogen Sulfide:	0			Iron:	0.0
Carbon Dioxide:	0			Manganese:	0.000
Comments		pH at time of sampling:	7.17		
		pH at time of analysis:			
		pH used in Calculation:	7.17		
		Temperature @ lab conditions (F):	75	Conductivity (micro-ohms/cm):	1484
				Resistivity (ohm meter):	6.7385

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.37	0.00	-2.53	0.00	-2.60	0.00	0.99	71.79	0.00	0.00
100	-0.25	0.00	-2.55	0.00	-2.56	0.00	0.99	71.79	0.00	0.00
120	-0.11	0.00	-2.56	0.00	-2.49	0.00	1.01	72.14	0.00	0.00
140	0.03	1.05	-2.56	0.00	-2.39	0.00	1.03	72.49	0.00	0.00
160	0.18	6.27	-2.55	0.00	-2.28	0.00	1.07	73.19	0.00	0.00
180	0.35	11.50	-2.54	0.00	-2.16	0.00	1.11	73.54	0.00	0.00
200	0.51	16.38	-2.52	0.00	-2.01	0.00	1.15	74.23	0.00	0.00
220	0.68	21.26	-2.50	0.00	-1.86	0.00	1.20	74.93	0.00	0.00

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

TO: <u>Mr. Gary Smith</u>	LABORATORY NO. <u>598173</u>
<u>P.O. Box 2267, Midland, TX 79702-2267</u>	SAMPLE RECEIVED <u>5-19-98</u>
	RESULTS REPORTED <u>5-20-98</u>

COMPANY Enron Oil & Gas Company LEASE Hallwood "12" #9
FIELD OR POOL Red Hills
SECTION BLOCK SURVEY COUNTY Lea STATE NM

NO. 1 Produced water - taken from Hallwood "12" #9.

NO. 2 _____

NO. 3

NO. 4 _____

REMARKS: Bone Springs

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0677			
pH When Sampled				
pH When Received	5.99			
Bicarbonate as HCO ₃	98			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	10,600			
Calcium as Ca	3,440			
Magnesium as Mg	486			
Sodium and/or Potassium	34,734			
Sulfate as SO ₄	900			
Chloride as Cl	60,350			
Iron as Fe	113			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	100,008			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.094			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks In comparing this water with our records in this field, we find it correlates well with what would be expected from a natural Bone Springs. It is also noted that it is reasonably comparable to Hallwood "12" #1 reported on laboratory #398152 (3-18-98) and #598114 (5-15-98) as well as correlating with Hallwood "12" #2 and "12" #3 reported on laboratory #797195 (7-25-97).

Form No. 3

FAX: Mr. Emery Bartimus, Midland (682-0046)

By Waylan C. Martin, M.A.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

1103-109

LABORATORY NO. _____ 11/19/03
SAMPLE RECEIVED _____ 11/21/03
RESULTS REPORTED _____

Red Hills North Unit #209

FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE Texas

SAMPLE AND DATE TAKEN:
Produced water - taken from Red Hills North Unit #209.

NO. 1

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0610			
pH When Sampled				
pH When Received	6.84			
Bicarbonate as HCO ₃	329			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	10,200			
Calcium as Ca	3,520			
Magnesium as Mg	340			
Sodium and/or Potassium	31,819			
Sulfate as SO ₄	956			
Chloride as Cl	55,395			
Iron as Fe	156			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	92,359			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0			
Resistivity, ohm·m at 77° F.	0.10			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

Additional Determinations And Remarks	This analysis correlates well with our recorded Bone Springs in the Red Hills field.
---------------------------------------	--

By

Greg Ogden, B.S.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819



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

January 9, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Bureau of Land Management
620 E. Greene
Carlsbad, NM 88220

Re: Application of EOG Resources, Inc. for administrative approval of
Triste Draw 3 Fed 1 – Lea 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 Triste Draw 3 Fed 1 is located 1826 feet from the North line and 660 feet from the East line of Section 3, Township 25 South, Range 33 East, NMPM, Lea 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 5000 feet to 7200 feet. This injection will occur with a maximum injection pressure of 2000 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", followed by 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:

BLM
620 E. GREENE
CARLSBAD, NM 88220

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X☒ Agent☒ Addressee

B. Received by (Printed Name)

C. Date of Delivery

Jessie F. ... 2/13/14

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 serial)

7002 2410 0001 5911 8537

Affidavit of Publication

State of New Mexico,
County of Lea.

I, DANIEL RUSSELL
PUBLISHER
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).
Beginning with the issue dated
November 15, 2013
and ending with the issue dated
November 15, 2013



PUBLISHER

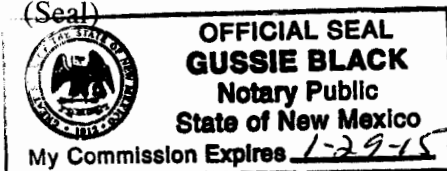
Sworn and subscribed to before me
this 15th day of
November, 2013



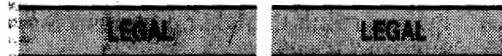
Notary Public

My commission expires
January 29, 2015

(Seal)



This newspaper is duly qualified to
publish legal notices or
advertisements within the meaning of
Section 3, Chapter 167, Laws of
1937 and payment of fees for said
publication has been made.



LEGAL NOTICE November 15, 2013

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 a water injection well.

The Triste Draw 3 Fed No. 1 is located 1826' FNL & 660'
FEL, Section 3, Township 25 South, Range 33 East, Lea
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 formation
at a depth of 5000' - 7200', a maximum surface pressure of
2000 psi, and a maximum rate of 10000 BWIPD.

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 with 15 days. Additional information may be
obtained by contacting Stan Wagner at P.O. Box 2267,
Midland, TX 79702, or 432-686-3600.

#28585

01105308

00126170

STAN WAGNER
EOG RESOURCES, INC.
P.O. BOX 2267
MIDLAND, TX 79702



C-108 Review Checklist:

Received 01/23/14 Add. Request: 04/15/14 Reply Date: 04/16/14 Suspended: _____ [Ver 13]PERMIT TYPE: WFX / PMX / SWD Number: 1478 Permit Date: 04/16/14 Legacy Permits/Orders: NAWell No. 1 Well Name(s): Triste Draw 3 FederalAPI: 30-0 25-34518 Spud Date: 02/03/1999 New or Old: New (UIC Class II Primacy 03/07/1982)Footages 1826 FNL/660 FEL Lot - or Unit H Sec 3 Tsp 25S Rge 33E County LeaGeneral Location: 4m S of 3R128/SW of Ochoa Pool: Sonson Ranch Wellcamp Pool No.: _____BLM 100K Map: Jal Operator: EOG Resources Inc. OGRID: 7377 Contact: Star WagnerCOMPLIANCE RULE 5.9: Total Wells: 502 Inactive: 1 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 04/15/14WELL FILE REVIEWED ☒ Current Status: Wellcamp formation: depleted producer / BLMWELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☒ After Conv. ☒ Logs in Imaging: DL-GR-DL-CN-CAP-CELPlanned Rehab Work to Well: CIBP to be placed in 2 7/8 tubing - set plugs - squeeze 5 1/2 to tie with 8 5/8

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Surface	<u>14 3/4 / 11 3/4</u>	<u>0 to 643</u>	<u>350</u>	<u>Circ. to surface</u>
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Interm/Prod	<u>11 / 8 5/8</u>	<u>0 to 4962</u>	<u>None</u>	<u>Circ. to surface</u>
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Interm/Prod	<u>7 7/8 / 5 1/2</u>	<u>0 to 12800</u>	<u>None</u>	<u>TS/TOC 5115</u>
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Prod/Liner	<u>4 3/4 / 2 7/8</u>	<u>0 to 13886</u>	<u>None</u>	<u>TS/TOC 12563'</u>
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Liner	_____	_____	_____	_____
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> OH (PERF)	<u>Exist: 7 7/8 / 5 1/2</u>	<u>5000 to 7200</u>	<u>Inj Length 2200</u>	<u>Requested CBL</u>

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.	_____	_____	Drilled TD <u>13886</u> PBDT <u>13869</u>
Confining Unit: Litho. Struc. Por.	<u>+1</u>	<u>Curstle</u>	NEW TD _____ NEW PBDT <u>7500</u>
Proposed Inj Interval TOP:	<u>5150</u>	<u>Delaware / Bell</u>	NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>
Proposed Inj Interval BOTTOM:	<u>7200</u>	<u>Cherry</u>	Tubing Size <u>2 7/8</u> in. Inter Coated? <u>Yes</u>
Confining Unit: Litho. Struc. Por.	_____	<u>Delaware / Brushy</u>	Proposed Packer Depth <u>4950</u> (changed to <u>5090</u>)
Adjacent Unit: Litho. Struc. Por.	_____	<u>Bene Spring</u>	Min. Packer Depth <u>5090</u> (100-ft limit)
	_____	_____	Proposed Max. Surface Press <u>2000</u> psi
	_____	_____	Admin. Inj. Press. <u>1030 at 5150</u> (10.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P No Noticed? NA BLM Sec Ord No WIPP No Noticed? NA SALT/SALADO T: _____ B: _____ CLIFF HOUSE NAFRESH WATER: Aquifer Shallow alluvial / unc max Depth < 350 HYDRO AFFIRM STATEMENT By Qualified Person ☒NMOSE Basin: Carlsbad CAPITAN REEF: thru ☐ adj ☐ NAC ☒ No. Wells within 1-Mile Radius? 2 FW Analysis YesDisposal Fluid: Formation Source(s) Bene Spring Analysis? Yes On Lease ☐ Operator Only ☒ or Commercial ☐Disposal Int: Inject Rate (Avg/Max BWPD): 5200 / 2000 Protectable Waters? No Source: - Go Tech - System: Closed ☒ or Open ☐HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other Regional historical (Cherry) 2-Mile Radius Pool Map NAAOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 0 Horizontals? 0Penetrating Wells: No. Active Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? NAPenetrating Wells: No. P&A Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? NANOTICE: Newspaper Date 11/15/2013 Mineral Owner BLM Surface Owner BLM N. Date 01/01/14RULE 26.7(A): Identified Tracts? Yes Affected Persons: EOG - only affected person N. Date NAPermit Conditions: Issues: CBL for squeeze; 2200' interval - injection surveyAdd Permit Cond: CBL & injection survey