

DATE IN 05/15/2013	SUSPENSE	ENGINEER RE	LOGGED IN 05/20/2013	TYPE SWD	APP NO. PPRG 1314358037
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

RECEIVED
Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505
2013 MAY 15 P 2:51



API 30-025-41067
Endurance 25 Feb #2
EOG Resources

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

Delaware
Protested:
BLM May 10th
Correspondence
Attached

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

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

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

Stan Wagner
Print or Type Name

Signature

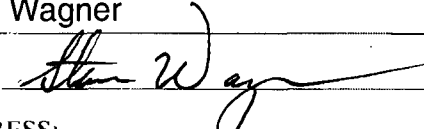
Regulatory Analyst
Title

Date

stan_wagner@eogresources.com
e-mail Address

SWD-1424

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: 5/13/2013
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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

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

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

INJECTION WELL DATA SHEET

OPERATOR: EOG Resources, Inc.WELL NAME & NUMBER: Endurance 25 Fed 2WELL LOCATION: 2310' FNL & 990' FWL

FOOTAGE LOCATION

E

UNIT LETTER

25

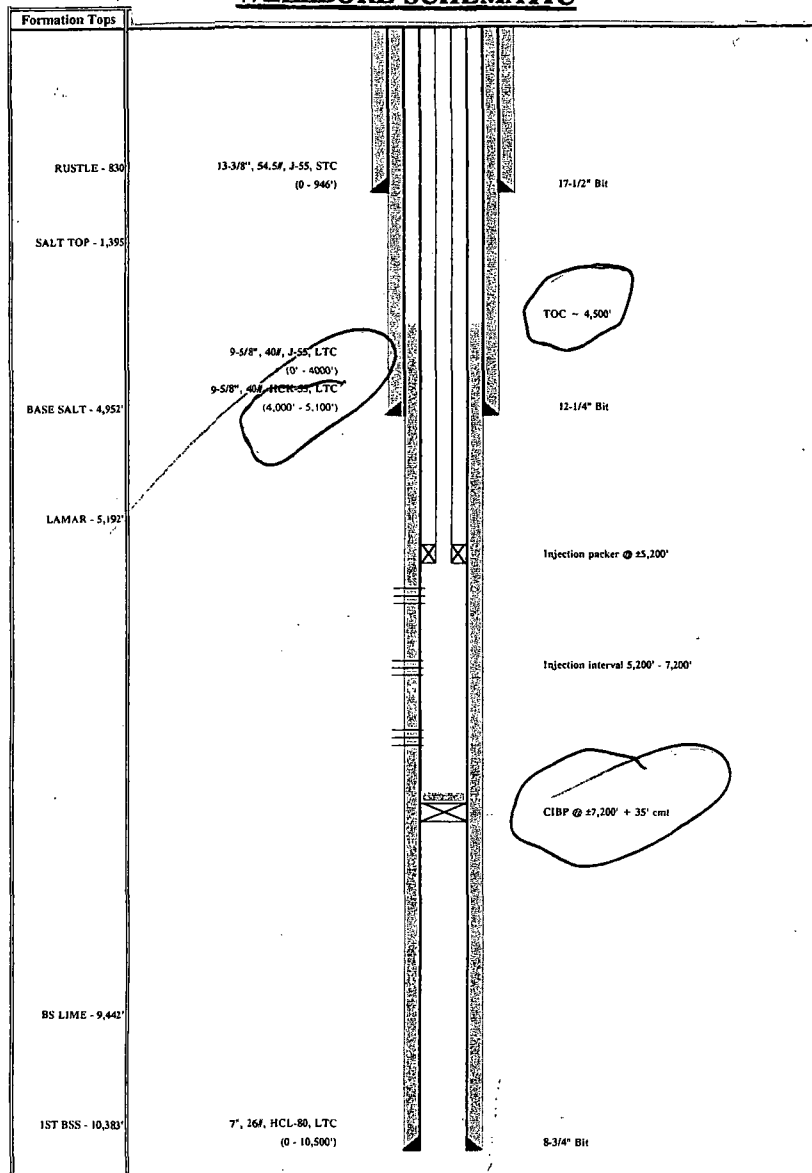
SECTION

26S

TOWNSHIP

33E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8"Cemented with: 700 SX. or ft³Top of Cement: Surface Method Determined: CirculationIntermediate CasingHole Size: 12-1/4" Casing Size: 9-5/8"Cemented with: 1300 SX. or ft³Top of Cement: Surface Method Determined: CirculationProduction CasingHole Size: 8-3/4" Casing Size: 7"Cemented with: 935 SX. or ft³Top of Cement: ~4500 Method Determined: CalculationTotal Depth: 10500Injection Interval5200 feet to 7200

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" Lining Material: Plastic Coated
Type of Packer: 7" Plastic Coated / Nickel Plated Injection Packer
Packer Setting Depth: +/- 5200'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

2. Name of the Injection Formation: Delaware
3. Name of Field or Pool (if applicable): 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. _____
None
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
Leonard A Shale 9330'
1st Bone Spring Sand 10290'

APPLICATION FOR AUTHORIZATION TO INJECT
ENDURANCE 25 FED No. 2

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: 300 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

VIII. GEOLOGIC DATA ON INJECTION ZONE

Injection Zone: Delaware Sandstone Perfs 5200' – 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.

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 no 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.

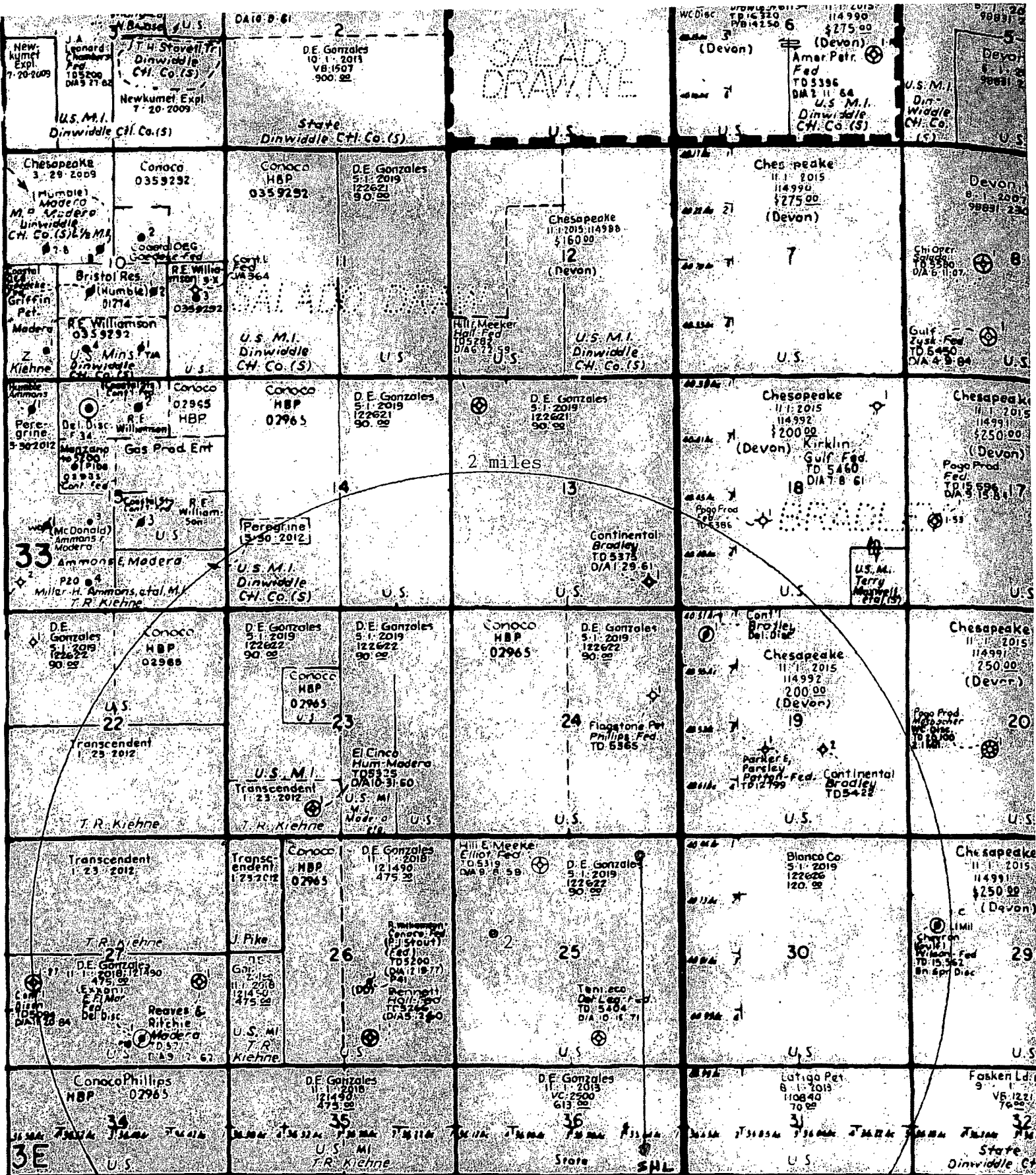
XIII. See attached "Proof of Notice".

Surface Owner:

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

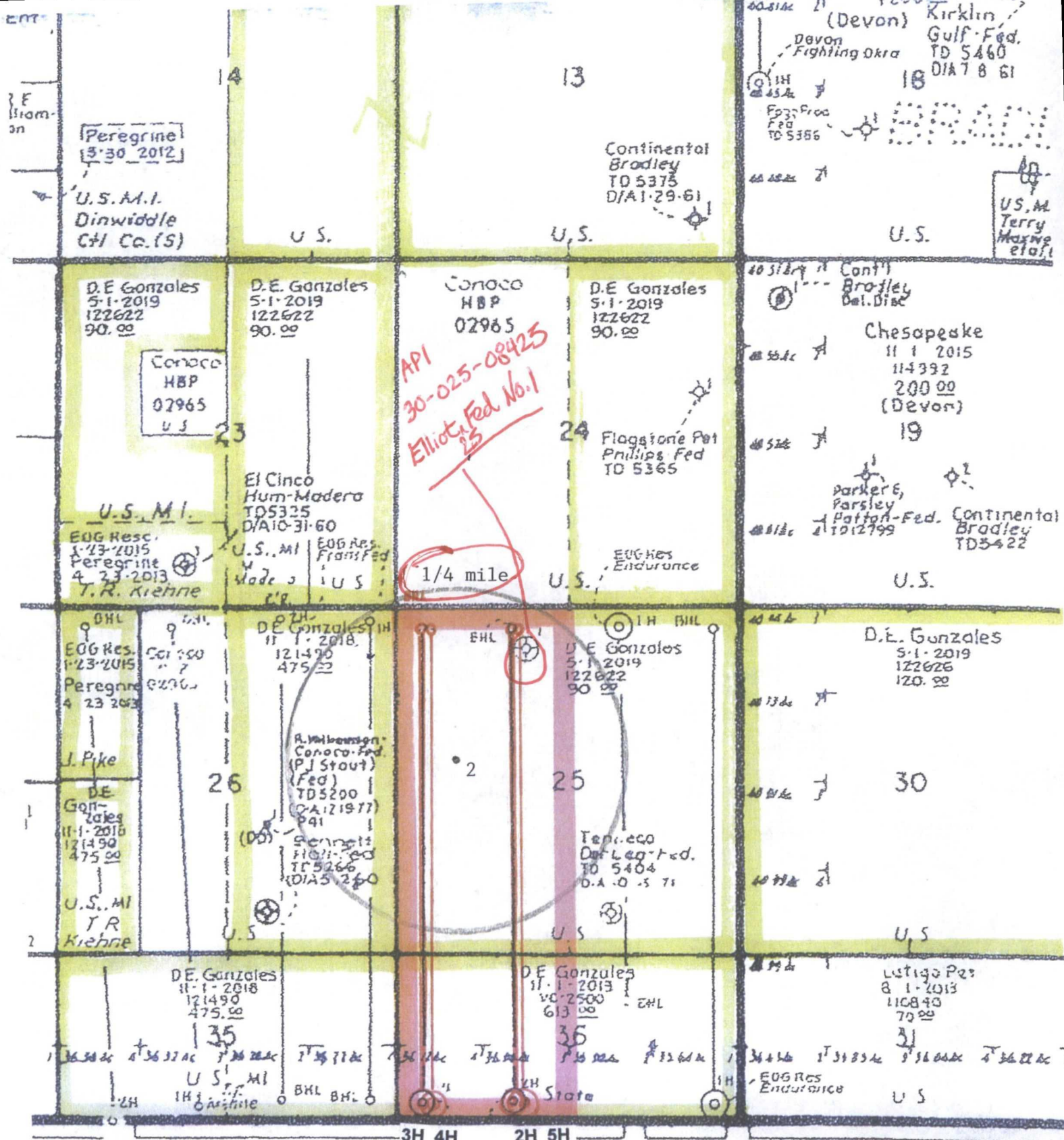


ENDURANCE 25 FED 2

2 Mile Radius Ownership Review

Endurance "36" Fed Com
Lea County, New Mexico

LC



ENDURANCE 25 FED 2

1/4 Mile Radius Area of Review

Endurance 36 State Com Wells
Lea County, New Mexico



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

April 30, 2013

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
Endurance 25 Fed 2 – 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 Endurance 25 Fed 2 is located 2310 feet from the North line and 990 feet from the West line of Section 25, Township 26 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 5200 feet to 7200 feet. This injection will occur with a maximum injection pressure of 1040 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", 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:

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

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

3. Service Type

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

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number

(Transfer from service label)

7002 2410 0001 5911 8858

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

Affidavit of Publication

State of New Mexico,
County of Lea.

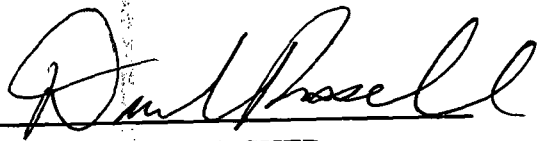
I, DANIEL RUSSELL
PUBLISHER

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).

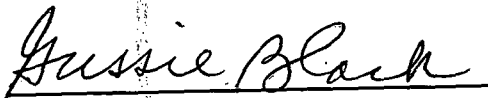
Beginning with the issue dated
April 27, 2013

and ending with the issue dated
April 27, 2013



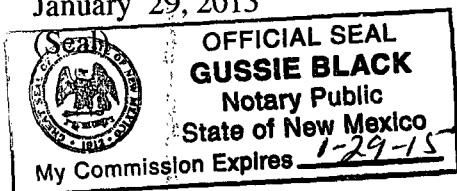
PUBLISHER

Sworn and subscribed to before me
this 9th day of
May, 2013



Notary Public

My commission expires
January 29, 2015



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 April 27, 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 Endurance 25 Fed No. 2 is located 2310' FNL & 990' FWL, Section 25, 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 in the the Delaware formation at a depth of 5200'-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 within 15 days. Additional information may be obtained by contacting Stan Wagner at P.O. Box 2267, Midland, TX 79702, or 432-686-3600.

#28113

01105308

00113519

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

EOG Resources, Inc
1/2 Mile Area of Review
Application for Authorization to Inject Endurance 25 Fed 2

Operator	Lease/Well	Status	Location	Spud Date	TMD	Size	Surface Casing			Size	Production Casing		Producing Perforations
							Depth	Cement			Depth	Cement	
EOG Resources	Endurance 25 Fed Com 1H	Oil Producer	Sec 26, T25S, R33E	7/17/2010	15109'	13-3/8"	949	900 sx Class C		5-1/2"	15080'	250 sx C, 1875 sx H	10148 - 14942'
EOG Resources	Endurance 36 State Com 2H	Proposed	Sec 36, T25S, R33E	Not Yet Drilled	16625'	13-3/8"	950	700 sx Class C		5-1/2"	16625'	150 sx C, 2325 sx H	~ 10000' to TD
EOG Resources	Endurance 36 State Com 3H	Proposed	Sec 36, T25S, R33E	Not Yet Drilled	16579'	13-3/8"	915	575 sx Class C		5-1/2"	16579'	225 sx C, 2275 sx H	~ 10000' to TD
EOG Resources	Endurance 36 State Com 4H	Proposed	Sec 36, T25S, R33E	Not Yet Drilled	17030'	13-3/8"	900	675 sx Class C		5-1/2"	17030'	225 sx C, 2275 sx H	~ 10000' to TD
EOG Resources	Endurance 36 State Com 5H	Proposed	Sec 36, T25S, R33E	Not Yet Drilled	17325'	13-3/8"	900	575 sx Class C		5-1/2"	17325'	225 sx C, 2275 sx H	~ 10000' to TD
EOG Resources	Fram 26 Federal 1H	Oil Producer	Sec 26, T25S, R33E	Not Yet Drilled	16735'	13-3/8"	900	550 sx Class C		5-1/2"	16735'	100 sx C, 2325 sx H	~ 10000' to TD
EOG Resources	Fram 26 Federal 2H	Oil Producer	Sec 26, T25S, R33E	Not Yet Drilled	16713'	13-3/8"	900	550 sx Class C		5-1/2"	16713'	100 sx C, 2325 sx H	~ 10000' to TD

Endurance 25 Federal #2 SWD

API# 30-025-41067
Sec 25 T26S R33E
2310' FNL & 990' FWL
Lea County, NM



DRILLING
LAST REVISED

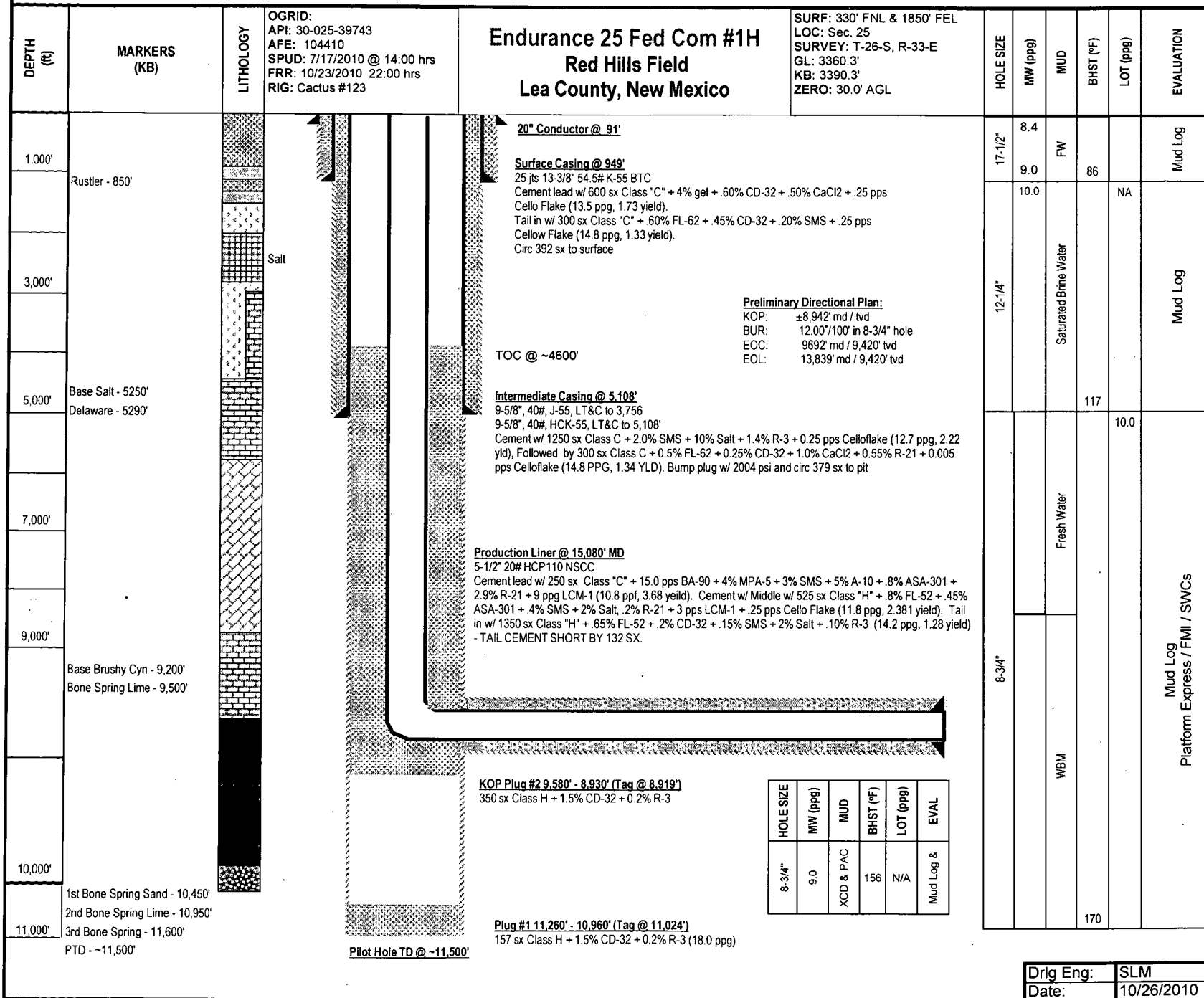
SPUD TD

WI

NRI

Formation Tops	Wellbore Schematic		GL	3332'	KB	3362'
RUSTLE - 830'	13-3/8", 54.5#, J-55, STC (0 - 946')	17-1/2" Bit	700 ss cmt - circ to surface			
SALT TOP - 1,395'		TOC ~ 4,500'	Calculated			
BASE SALT - 4,952'	9-5/8", 40#, J-55, LTC (0' - 4000') 9-5/8", 40#, HCK-55, LTC (4,000' - 5,100')	12-1/4" Bit	1,300 ss cmt - circ to surface			
LAMAR - 5,192'		Injection packer @ 45,200'	Max Surface Injection Pressure - (5,400' x 0.20 psi/ft = 1,080 psi) Max Injection Volume - 10,000 bpd Avg Injection Volume - 5,200 bpd			
		Injection interval 5,200' - 7,200'				
		CIBP @ 27,200' + 35' cmt				
BS LIME - 9,442'						
IST BSS - 10,383'	7", 26#, HCL-80, LTC (0 - 10,500')	8-3/4" Bit				

CURRENT WELL SKETCH



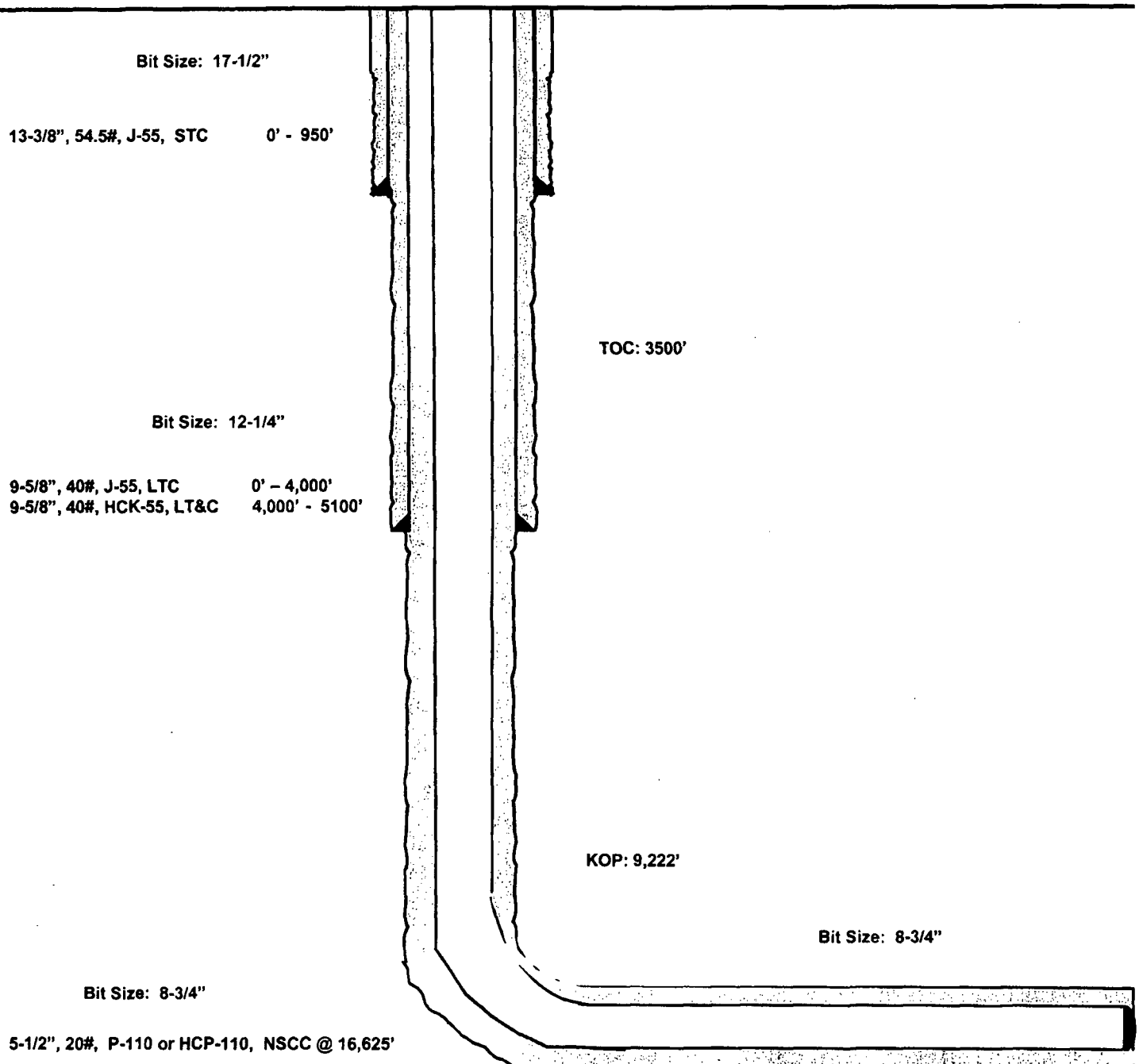
Endurance 36 State Com #2H
Red Hills
Lea County, New Mexico

330' FSL
1760' FWL
Section 36
T-26-S, R-33-E

Proposed Wellbore

API: 30-025-*****

KB: 3,363.1'
GL: 3,333.1'



Bone Spring Sand Lateral: 16,625' MD, 9,700' TVD

BH Location: 330' FNL & 1760' FWL
Section 25
T-26-S, R-33-E

Endurance 36 State Com #3H
Red Hills
Lea County, New Mexico
REVISED BHL 8/29/12
Proposed Wellbore

330' FSL
365' FWL
Section 36
T-26-S, R-33-E

API: 30-025- *****

KB: 3,366'
GL: 3,336'

Bit Size: 17-1/2"
13-3/8", 54.5#, J-55, ST&C 0' - 915'

TOC: 4900'

Bit Size: 12-1/4"
9-5/8", 40#, J-55, LT&C 0' - 4000'
9-5/8", 40#, HCK55, LT&C 4000' - 5100'

KOP: 9,072'

Bit Size: 8-3/4"

Bit Size: 8-3/4"
5-1/2", 17#, P-110 or HCP-110, LTC @ 16,579'

Bone Spring Sand Lateral: 16,579' MD, 9,550' TVD

BH Location: 230' FNL & 380' FWL
Section 25
T-26-S, R-33-E

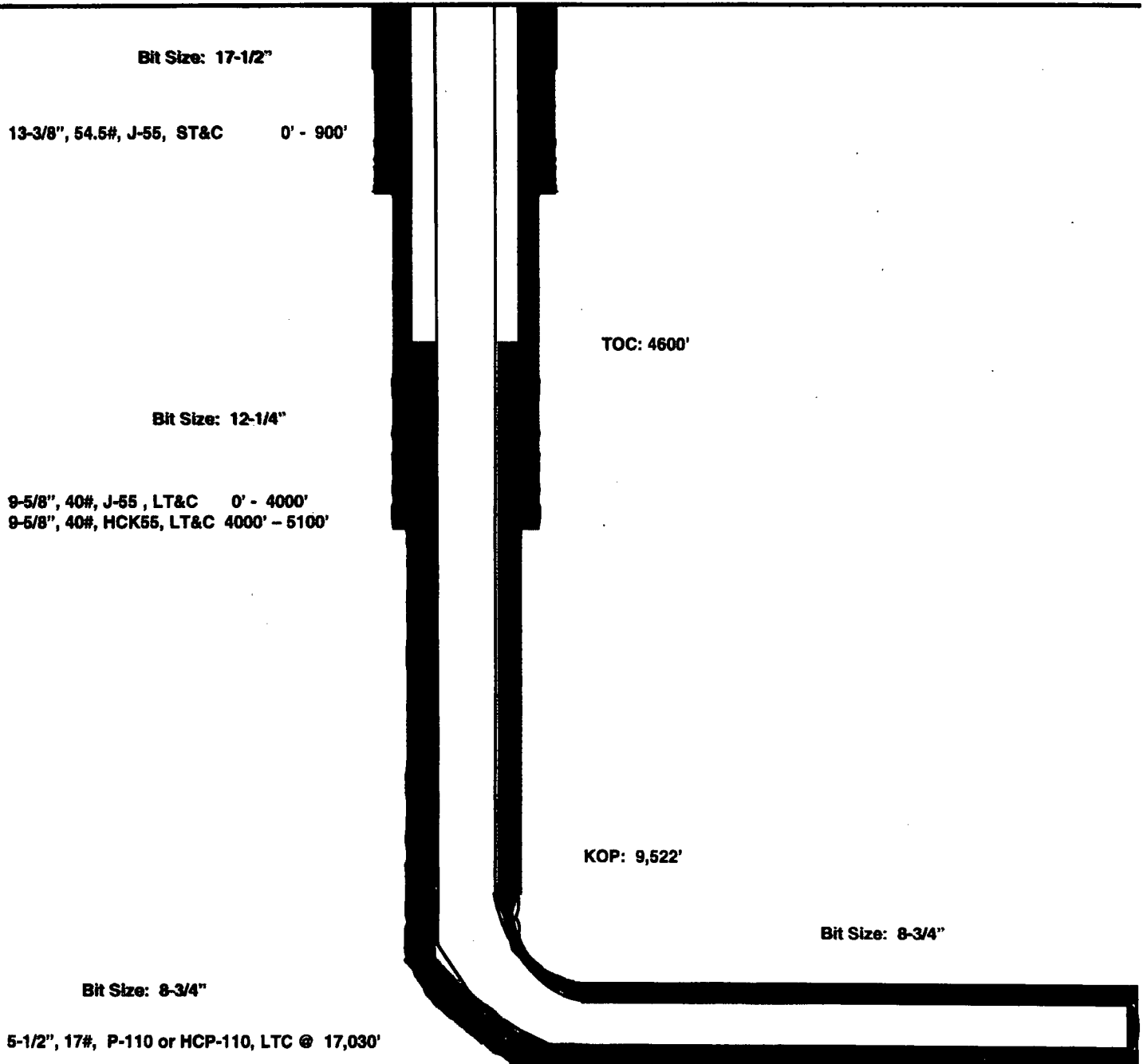
**Endurance 36 State Com #4H
Red Hills
Lea County, New Mexico**

**330' FSL
395' FWL
Section 36
T-26-S, R-33-E**

Proposed Wellbore

API: 30-025- *****

**KB: 3,366'
GL: 3,336'**



Lateral: 17,030' MD, 10,000' TVD

**BH Location: 230' FNL & 502' FWL
Section 25
T-26-S, R-33-E**

Endurance 36 State Com #5H
Red Hills
Lea County, New Mexico

330' FSL
1790' FWL
Section 36
T-26-S, R-33-E

Proposed Wellbore

API: 30-025- *****

KB: 3,364'
GL: 3,334'

Bit Size: 17-1/2"

13-3/8", 54.5#, J-55, ST&C 0' - 900'

Bit Size: 12-1/4"

9-5/8", 40#, J-55, LT&C 0' - 4000'
9-5/8", 40#, HCK55, LT&C 4000' - 5150'

TOC: 4650'

KOP: 9,822'

Bit Size: 8-3/4"

5-1/2", 17#, P-110 or HCP-110, LTC @ 17,325'

Bit Size: 8-3/4"

Lateral: 17,325' MD, 10,300' TVD

BH Location: 230' FNL & 1840' FWL
Section 25
T-26-S, R-33-E

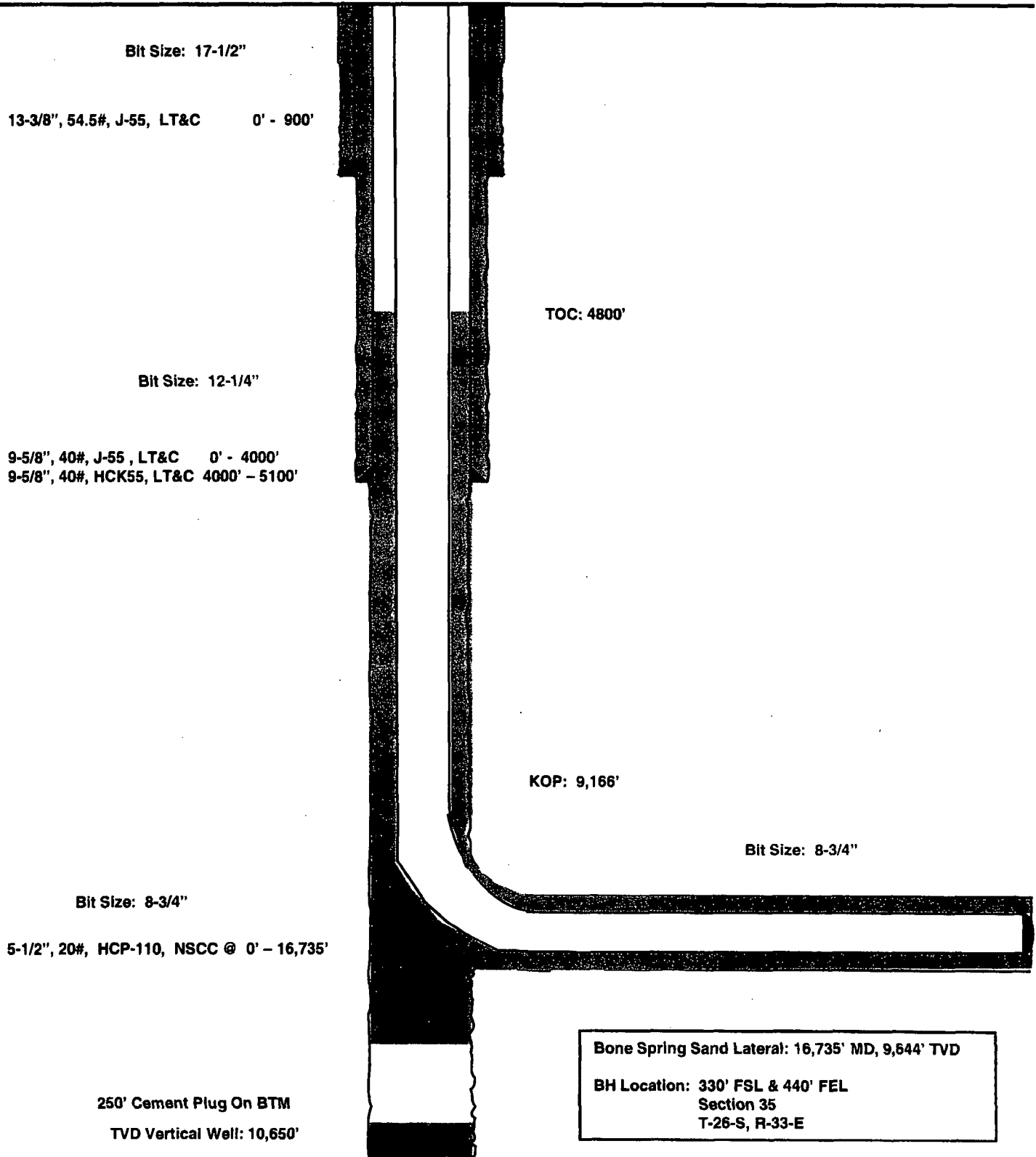
**Fram 26 Federal #1H
Red Hills
Lea County, New Mexico**

**170' FNL
430' FEL
Section 26
T-26-S, R-33-E**

Proposed Wellbore

API: 30-025-

**KB: 3,359.1'
GL: 3,329.1'**



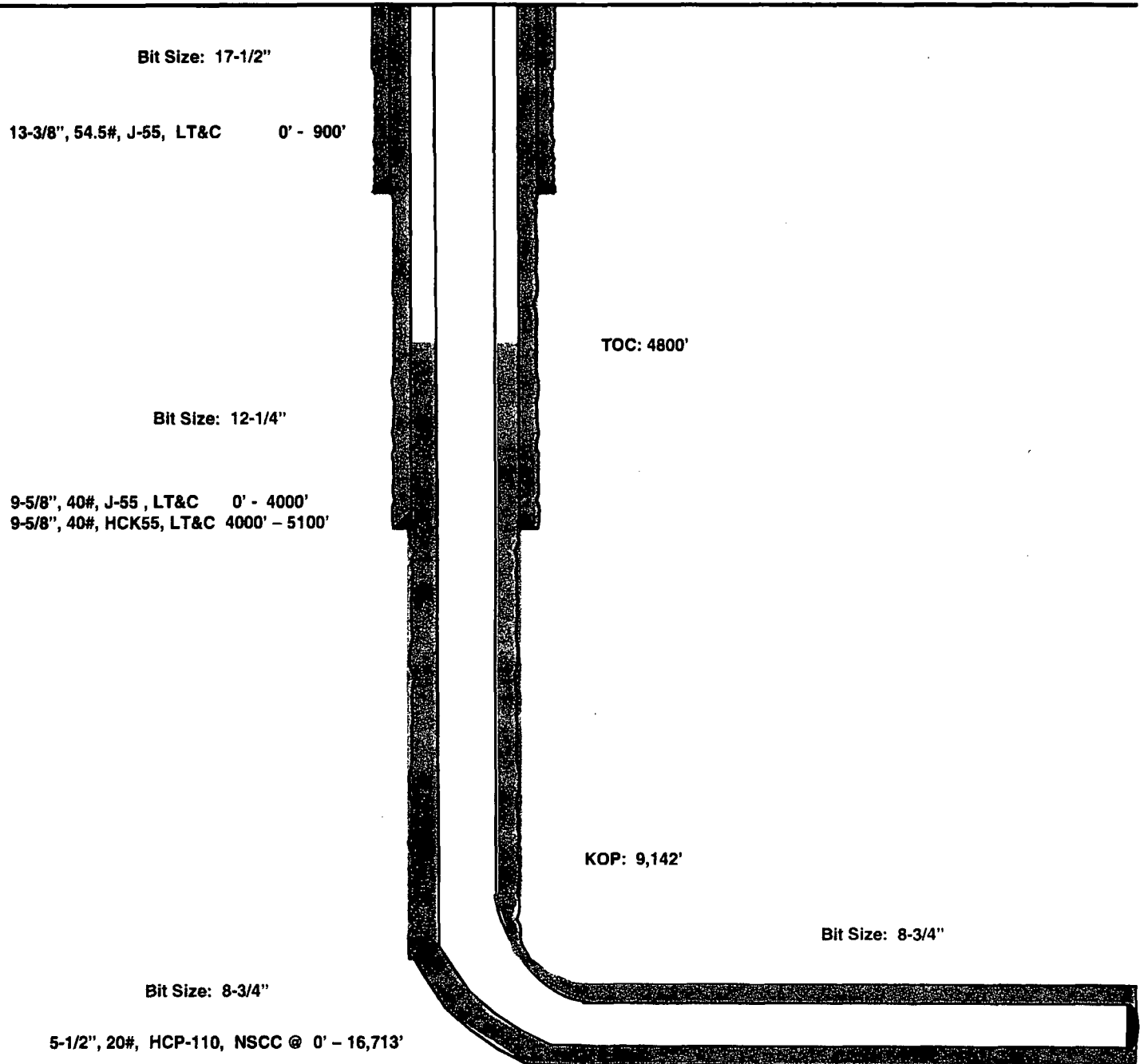
**Fram 26 Federal #2H
Red Hills
Lea County, New Mexico**

**170' FNL
1760' FEL
Section 26
T-26-S, R-33-E**

Proposed Wellbore

API: 30-025-

**KB: 3,344.6'
GL: 3,314.6'**



Bone Spring Sand Lateral: 16,713' MD, 9,620' TVD

**BH Location: 330' FSL & 1760' FEL
Section 35
T-26-S, R-33-E**



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. PAUL CORRALES

EOG RESOURCES

P.O. BOX 1331

JAL, NEW MEXICO 88252

SAMPLE SOURCE: ENDURANCE 25 FED COM 1H

ANALYSIS COMPLETED: 06-28-2012

SAMPLE RECEIVED: 06-21-2012

LAB NUMBER: 12140

DISSOLVED SOLIDS:

CATIONS:	MEQ/L	mg/L
SODIUM (CALC.) (Na+)	2897.68	66647
CALCIUM (Ca++)	484.00	9680
MAGNESIUM (Mg++)	112.00	1366

ANIONS:

CHLORIDE (Cl-)	3468.00	123114
SULFATE (SO4=)	18.42	884
CARBONATE (CO3=)	0.00	0
BICARBONATE (HCO3-)	7.26	443
HYDROXIDE (OH-)	0.00	0

TOTAL DISSOLVED SOLIDS:

202134

OTHER PROPERTIES:

pH	6.03	P-ALKALINITY (AS CaCO3)	0 mg/L
SPEC. GRAV.	1.12	M-ALKALINITY (AS CaCO3)	363 mg/L
CONDUCTIVITY	387100 μ MHOS/CM	CALCIUM HARDNESS (AS CaCO3)	24200 mg/L
@ 77 °F		MAGNESIUM HARDNESS (AS CaCO3)	5600 mg/L
H2S	0 mg/L	TOTAL HARDNESS (AS CaCO3)	29800 mg/L
CO2	282 mg/L		
IRON	0.20 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. PAUL CORRALES

EOG RESOURCES

P.O. BOX 1331

JAL, NEW MEXICO 88252

SAMPLE SOURCE: ENDURANCE 36 STATE COM #1-H

ANALYSIS COMPLETED: 05-05-2011

SAMPLE RECEIVED: 05-04-2011

LAB NUMBER: 8457

DISSOLVED SOLIDS:

CATIONS:	MEQ/L	mg/L
SODIUM _____ (Na+)	3188.55	73337
CALCIUM _____ (Ca++)	468.00	9360
MAGNESIUM _____ (Mg++)	72.00	878

ANIONS:

CHLORIDE _____ (Cl-)	3684.00	130782
SULFATE _____ (SO4=)	27.65	1327
CARBONATE _____ (CO3=)	0.00	0
BICARBONATE _____ (HCO3-)	16.90	1031
HYDROXIDE _____ (OH-)	0.00	0

TOTAL DISSOLVED SOLIDS:

216715

OTHER PROPERTIES:

PH	5.91	P-ALKALINITY (AS CaCO3)	0 mg/L
SPEC. GRAV.	1.13	M-ALKALINITY (AS CaCO3)	845 mg/L
CONDUCTIVITY	407500 μ MHOS/CM	CALCIUM HARDNESS (AS CaCO3)	23400 mg/L
@ 77 °F		MAGNESIUM HARDNESS (AS CaCO3)	3600 mg/L
H2S	0 mg/L	TOTAL HARDNESS (AS CaCO3)	27000 mg/L
CO2	493 mg/L		
IRON	38.00 mg/L		

Ezeanyim, Richard, EMNRD

From: Stan_Wagner@eogresources.com
Sent: Tuesday, June 18, 2013 12:11 PM
To: Ezeanyim, Richard, EMNRD
Subject: Endurance 25 Fed #2 - SWD Permit
Attachments: Endurance 25 Fed #2.pdf

Good afternoon Richard,

Attached please find information that I inadvertently left out of our SWD application for the Endurance 25 Fed #2. Please accept my apologies for this omission.

Regarding the BLM concerns that Wesley Ingram brought up; I spoke with Wesley and EOG agrees that our perforations will stay below 5400'. We are willing that this be made a condition of approval for the permit. Wesley agreed that this stipulation would satisfy his concerns.

If additional information is needed please advise.

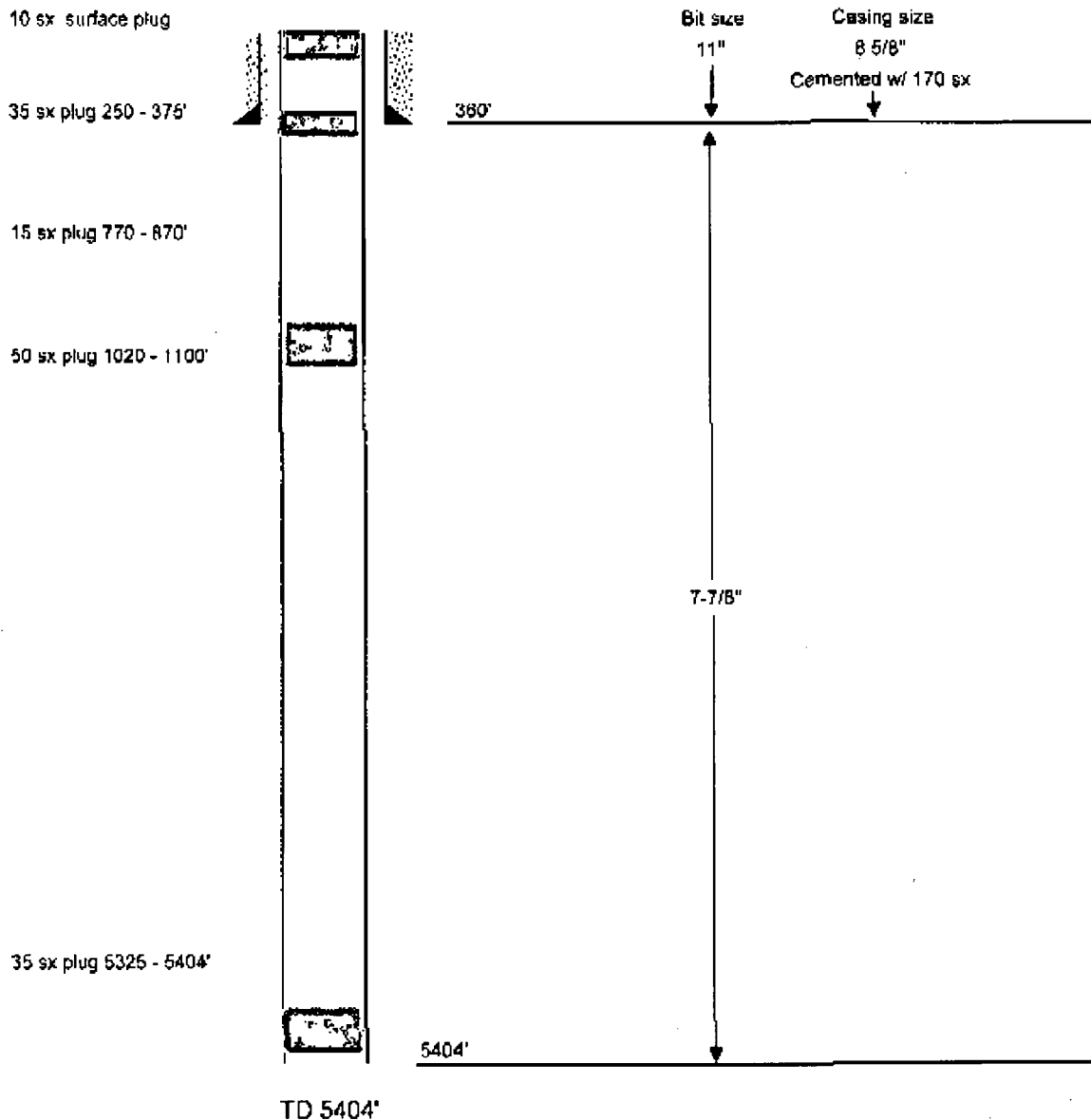
Stan Wagner
EOG Resources-Midland Division
432-686-3689

(See attached file: Endurance 25 Fed #2.pdf)

EOG Resources, Inc
1/2 Mile Area of Review
Application for Authorization to Inject Endurance 25 Fed 2

Operator	Lease/Well	Status	Location	Spud Date	TMD	Size	Surface Casing			Production Casing		Producing Perforations
							Depth	Cement	Size	Depth	Cement	
EOG Resources	Endurance 25 Fed Com 1H	Oil Producer	Sec 26, T26S, R33E	7/17/2010	15109'	13-3/8"	949	900 sx Class C	5-1/2"	15080'	250 sx C, 1875 sx H	10148 - 14942'
EOG Resources	Endurance 36 State Com 2H	Proposed	Sec 36, T26S, R33E	Not Yet Drilled	16525'	13-3/8"	950	700 sx Class C	5-1/2"	16825'	150 sx C, 2325 sx H	~ 10000' to TD
EOG Resources	Endurance 36 State Com 3H	Proposed	Sec 36, T26S, R33E	Not Yet Drilled	16579'	13-3/8"	915	575 sx Class C	5-1/2"	16679'	225 sx C, 2275 sx H	~ 10000' to TD
EOG Resources	Endurance 36 State Com 4H	Proposed	Sec 36, T26S, R33E	Not Yet Drilled	17030'	13-3/8"	900	675 sx Class C	5-1/2"	17030'	225 sx C, 2275 sx H	~ 10000' to TD
EOG Resources	Endurance 36 State Com 5H	Proposed	Sec 36, T26S, R33E	Not Yet Drilled	17325'	13-3/8"	900	575 sx Class C	5-1/2"	17325'	225 sx C, 2275 sx H	~ 10000' to TD
EOG Resources	Fram 26 Federal 1H	Oil Producer	Sec 26, T26S, R33E	Not Yet Drilled	16735'	13-3/8"	900	550 sx Class C	5-1/2"	16735'	100 sx C, 2325 sx H	~ 10000' to TD
EOG Resources	Fram 26 Federal 2H	Oil Producer	Sec 26, T26S, R33E	Not Yet Drilled	16713'	13-3/8"	900	550 sx Class C	5-1/2"	16713'	100 sx C, 2325 sx H	~ 10000' to TD
	Del-Lea Federal #1	P&A 11/15/71	Sec 25, T26S, R33E	11/5/1971	5404'	8-5/8"	360'	170 sx Class H	none			Dry Hole
	Elliott Federal 25 #1	P&A 1/19/60	Sec 25, T26S, R33E	8/21/1959	5319'	8-5/8"	346'	150 sx	none			Dry Hole

Del-Lea Federal #1
660' FSL & 1980' FEL
Sec. 25-26S-33E
Lea County, New Mexico
30-025-23932



* Mud Fill between all plugs

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions
reverse side)

Form approved,
Budget Number No. 42-R1424.

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" for such proposals.)

1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER		6. LEASE DESIGNATION AND SERIAL NO. NM 0384999
2. NAME OF OPERATOR Tenneco Oil Company		7. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1031, Midland, Texas 79701		8. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660 FSL, 1980 FEL, Section 25, T-26-S, R-33-E		9. FARM OR LEASE NAME Del-Lea Federal
14. PERMIT NO.		10. WELL NO.
15. ELEVATIONS (Show whether DP, AT, CR, etc.) 3341' GL		11. FIELD AND POOL, OR WILDCAT Bradley Area
		12. COUNTY OR PARISH, 13. STATE Lea New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	WATER SHUT-OFF	☐
FRACURE TREAT	☐	FRACURE TREATMENT	☐
SHOOT OR ACIDIZE	☐	SHOOTING OR ACIDIZING	☐
REPAIR WELL	☐	(Other)	☐
(Other)	☐		
PULL OR ALTER CASING	☐	REPAIRING WELL	☐
MULTIPLE COMPLETE	☐	ALTERING CASING	☐
ABANDON*	☐	ABANDONMENT*	☒
CHANGE PLANS	☐		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE UNDERGROUND OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled 7-7/8" hole to 5404' Total Depth.

Plugged well as follows with neat Class "H".

35 sxs from 5404' to 5325'
50 sxs from 1100' to 1020'
35 sxs from 375' to 250'
10 sxs surface + dry hole marker installed.

(Verbal approval given by Mr. Brown on 11-14-71)

This report was prepared by the Geologic Division of the U.S. Geological Survey, New Mexico District Office, Albuquerque, New Mexico. It is published as a part of the Geologic Survey of New Mexico, and is available for sale to the public. The price of this report is \$1.00. The price of this report is \$1.00. The price of this report is \$1.00.

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Jim F. McCormick</u>	TITLE <u>Drilling Engineer</u>	DATE <u>11-15-71</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved,
Budget Bureau No. 42-R335.1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: ☐ OIL WELL ☐ GAS WELL ☒ DRY ☐ Other		3. LEASE DESIGNATION AND SERIAL NO. NM-6384999	
2. TYPE OF COMPLETION: ☒ NEW WELL ☐ WORK OVER ☐ DREF- EN ☐ PLUG BACK ☐ DIFF. CRRV. ☐ Other		4. IF INDIAN, ALLOTTEE OR TRIBE NAME	
5. NAME OF OPERATOR Tenneco Oil Company		7. UNIT ASSIGNMENT NAME	
6. ADDRESS OF OPERATOR P.O. Box 1031, Midland, Texas 79701		8. DIRM OR LEASE NAME	
9. LOCATION OF WELL (Report location clearly and in accordance with any title requirements) At surface: Center S. 35 E. section 25, T-20-S, R-33-E At top prod. interval reported below: SAME At total depth: SAME		9. WELL NO. No. 1	
10. FIELD AND POOL, OR WILDCAT B-5 H-1		11. SEC. T. R. M. OR BENCH AND SURVEY OR AREA Section 25 T-20-S, R-33-E	
12. PERMIT NO.		13. COUNTY OR TARIFF	
14. DATE ISSUED		15. STATE	
16. DATE SPUDDED 11/5/1971	17. DATE T.D. REACHED 11/14/1971	18. DATE COMPL. (Ready to prod.) P&A 11/15/1971	19. ELEVATIONS (OF, BSB, RT, OR, ETC.) GL 3350
20. TOTAL DEPTH, MD & TVD 5404	21. PLUG BACK T.D. MD & TVD P&A	22. IF MULTIPLE COMPL. HOW MANY? DEA	23. INTERVALS DRILLED BY 10-3404
24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD) None			25. WAS DIRECTIONAL SURVEY MADE None
26. TYPE ELECTRIC AND OTHER LOGS RUN B&C-Acoustic and Lateral Log			27. WAS WELL Cased Yes
28. CASING RECORD (Report all strings set in well)			
CASING SIZE 8 5/8	WEIGHT, LB./FT.	DEPTH SET (MD) 300 feet	TOOL SIZE
CEMENTING RECORD		AMOUNT PULLED	
170 Sacks			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*
None			
30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*
None			
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
None		None	
33. PRODUCTION			
DATE FIRST PRODUCTION None	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) None		WELL STATUS (Producing or shut-in) P&A
DATE OF TEST None	HOURS TESTED None	CHOKED SIZE	PROD'N. FOR TEST PERIOD
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL. GAS--MCF. WATER--BBL. OIL-GAS RATIO
34. DISPOSITION OF GAS (Said, used for fuel, vented, etc.)		TEST WITNESSED BY	
None			
35. LIST OF ATTACHMENTS Two sets of Logs			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED Doris L. Cannon		TITLE Clerk	
DATE 12-20-71			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be learned by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 33.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 27: "Gacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 23 above.)

31. SUMMARY OF FORMER ZONES: SHOW ALL IMPORTANT ZONES OF PRODUCE AND CONVEYANCE HERETO; COED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CURTAIN USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				32. GEOLOGIC MARKERS		
COMPLETION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE MEAS. DEPTH
Gasconade	5242	5244	Surface sand and shale	Raster	5247	5247
Chirle	524	527	Red sand and shale	Selado	1187	1187
Raster	527	1187	Anhydrite and Dolomite	Basal Anhydrite	4990	4990
Selado	1187	4990	Salt with Anhydrite stringers	Lignite	5233	5233
Basal Anhydrite	4990	5233	Anhydrite	Delaware Sand	5243	5243
Lignite	5233	5243	Lime and shale			
Delaware Sand	5243	5404	Sand with shale stringers			
			Core 5273-5315			
			Rec. 55' Shale, fine grained sand			
			bleeding salt water			
			Core 5318-5375			
			Rec. 57' Very shaly water bearing			
			Sand.			

RECEIVED

OIL CONSERVATION COMM.
HOUSTON, N. M.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLES
(Other instructions
reverse side)Form approved
Budget Project No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 0384999

6. IS INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Red Sea Federal

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Bradley Area

11. SEC., T., R. OR B.R. AND
MILEAGE OF AREA

25-T-26-S R-33-E

12. COUNTY OR PARISH

Lea

13. STATE

NM

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different territory.
Use "APPLICATION FOR PERMIT" for such proposals.)1. ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

Box 1031 - Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

660' FSL 1980' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DT, RL, ON, etc.)

3341-44

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREATMENT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANN

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Spud 8 3/4" casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)17. DESCRIBE UNCOMPLETED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent
to this work.)

Spud - 6:30 p.m. MST 11-5-71

Drilled 12 1/4" hole to 360'

Ran 8 lbs. 8 3/4" - 24" J-55, 8R, STD casing to 357.35

Cased casing w/175 lbs. of cement. 27, call by P.D. 7:30 a.m. 11-6-71.

Cement did not circulate. Cement top @ 15' below ground level. Packed

Pec gravel around casing & down to cement top. WOC 14 hrs. Cased

w/500 PSI for 40 min. Casing tested O.K. Mixing temp. 45°

Formation temp. 64°. Est. compressive 1560 PSI Cement slurry

volume 200.60 CF.

18. I hereby certify that the foregoing is true and correct

SIGNED

Basil L. Carson

TITLE

Chief

DATE

11-15-71

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

NOV 17 1971

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
HOBBES, NEW MEXICO

Elliott Federal 25 #1

660' FNL & 1980' FWL

Sec. 25-26S-33E

Lea County, New Mexico

30-025-08425

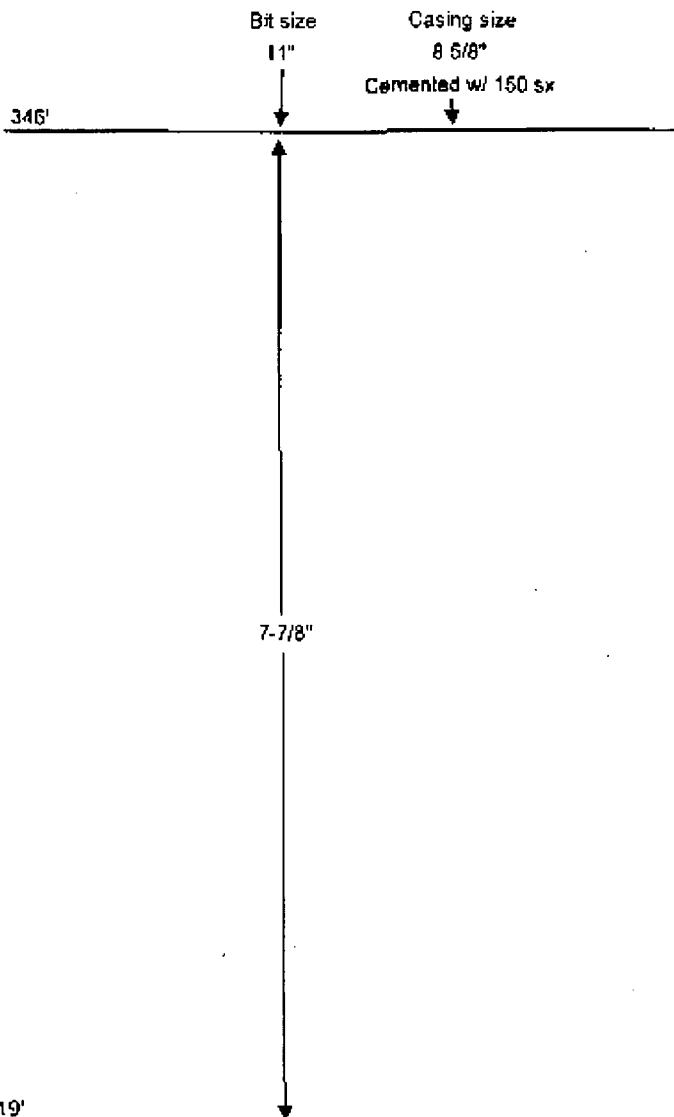
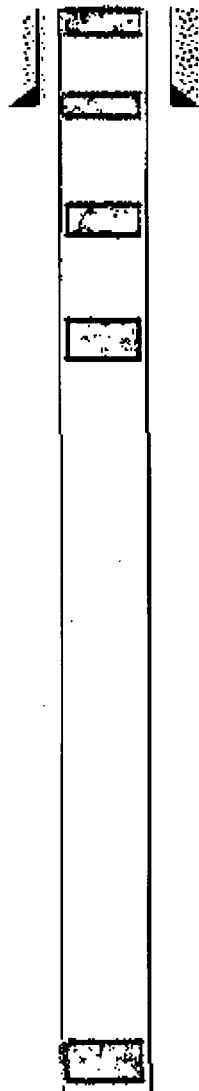
10 sx surface plug

10 sx plug @ 346'

15 sx plug 770 - 870'

25 sx plug 1075 - 1195'

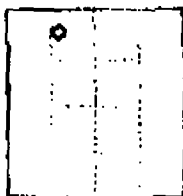
25 sx plug 5185 - 5285'



TD 5319'

* Mud Fill between all plugs

Form 9-1011a
(Feb 1955)



APPROVED

SUBMIT IN TRIPlicate

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Land Office Las Cruces

Lease No. Le 068378

Unit C

OCT 6 1959

SUNDRY NOTICES AND REPORTS ON WELLS

KOBUS, N.M.

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA

September 18, 1959

Well No. 1 is located 660 ft. from N line and 1980 ft. from EX line of sec. 25

NE/4, NW/4, Sec. 25 26S

33E

N.M.P.M.

Wildcat

Lea

New Mexico

The elevation of the derrick floor above sea level is 3358 ft.

DETAILS OF WORK

(State names of and expected day the tool bit or other sanders, show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set 3371 4 5/8" casing, set at 3461 - cement circulated.

Cement Plugs:

- 10 sks at top of surface & ground level
- 10 sks at 3511
- 10 sks at 8411 - top of Rustler at 8201
- 21 sks at 11911 - Base of Rustler at 11741
- 25 sks at 12211 - Top of Delaware Sand at 52351
- Hole full of mud laden material. Set 1/2" marker 11' above surface.
- Clear Location.

11/2/59 London OK - The man.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company HILL & MEEKER

Address 519 Midland Savings & Loan Bldg.

Midland, Texas

By H. H. Manning

Title Production Clerk

The summary on this page is for the condition of the well at above date.

Commenced drilling August 21, 1959. Finished drilling September 10, 1959.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from to No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Out and pulled from	Perforated		Purpose
							From-	To-	
8 5/8	24	3	1 1/2	337	API				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	345	150 sbs	Swamp & plug		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
------	------------	----------------	----------	------	------------	-------------------

TOOLS USED

Rotary tools were used from 0 feet to 5319 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

Put to producing , 19

The production for the first 24 hours was barrels of fluid of which % was oil; % emulsion; % water; and % sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Driller Driller
Driller Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	35	35	Surface sand & caliche
35	820	785	Med sand & shale
820	1175	355	Anhydrite, dolomite & shale - Rustler
1175	1221	46	

FOLD MARK

HISTORY OF OIL OR GAS WELL

16-42004-2

U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give data, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or balling.

WELL IDENTIFICATION

WELL NAME

Elliott Federal "25" #1

Sec. 25, T26S, R33E, Lea County
New Mexico, Lease No. 0683783

August 21, 1959

Spudded

August 23, 1959

Ran 337' 8 5/8" 2 1/2" seg. Cement circulated.

August 31, 1959

Core #1 - 5240' - 5268', recovered 25', slight
shows from 5247' - 5261'.

August 31, 1959

DSF #1 - 5240' - 5268', open 1 hour, recovered
shows from 5247' - 5261'.

September 1, 1959

Core #2 - 5268' - 5319', recovered 51', no
shows.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

HOBBS OCD

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

APR 30 2013

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☐ Gas Well ☒ Other: UNKNOWN OTH		5. Lease Serial No. NMNM122622
2. Name of Operator EOG RESOURCES INCORPORATED Contact: STAN WAGNER E-Mail: stan_wagner@eogresources.com		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432.686.3689 Fx: 432.686.3770	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 25 T26S R33E SWNW 2310FNL 990FWL		8. Well Name and No. ENDURANCE 25 FED 2
		9. API Well No. 30-025-41067-00-X1
		10. Field and Pool, or Exploratory SWD
		11. County or Parish, and State LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
☐ Notice of Intent	☐ Acidize
☒ Subsequent Report	☐ Deepen
☐ Final Abandonment Notice	☐ Fracture Treat
	☐ Production (Start/Resume)
	☐ Alter Casing
	☐ Reclamation
	☐ Casing Repair
	☐ Recomplete
	☐ Change Plans
	☐ New Construction
	☒ Other Drilling Operations
	☐ Plug and Abandon
	☐ Temporarily Abandon
	☐ Convert to Injection
	☐ Plug Back
	☐ Water Disposal
	☐ Water Shut-Off
	☐ Well Integrity

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

4/18/13 Ran 122 jts 9-5/8", 40#, HCK55 (27) & J55 (95) STC casing set at 5080'.
Cemented lead w/ 1100 sx Class C, 12.7 ppg, 2.21 yield; tail w/ 200 sx
Class C, 14.8 ppg, 1.33 yield.
Circulated 435 sx cement to surface. WOC 22 hrs.
4/19/13 Tested casing to 2000 psi for 30 minutes. Test good.
Resumed drilling 8-3/4" hole.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #205078 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by JOHNNY DICKERSON on 04/23/2013 (13JLD0314SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/23/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JAMES A AMOS Title SUPERVISORY EPS	Date 04/28/2013
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office Hobbs		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

MAY 02 2013



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292
Tel. (575) 234-5972
Fax (575) 885-9264

Endurance 25 Federal well 2
API 30-025-41067 / Unit E, Sec. 25, T26S, R33E

IN REPLY REFER TO:
3162.3-2 (P0220)

MAY 10 2013

Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Endurance 25 Fed 2, Lea County, New Mexico.

Gentlemen:

The Bureau of Land Management, Carlsbad Field Office has a concern about the use of the Endurance 25 Fed 2 as a salt water disposal well at the proposed depth.

The Elliot 1 was drilled and abandoned in 1959. The only record of the plugging indicated an open hole plug set at approximately 5200'. Since this is an open hole plug, perhaps the Endurance 25 Fed 2 should be approved for an injection depth below that plug to eliminate potential disposal water communicating into other formations above that plug. ✓

If clarification is needed, please contact the signatory at 575-234-5982.

Sincerely,

Wesley W. Ingram
Supervisory Petroleum Engineer
Bureau of Land Management
Carlsbad Field Office

RECEIVED OGD
2013 MAY 20 P 2:22

cc: EOG Resources, Inc.

Goetze, Phillip, EMNRD

From: Ingram, Wesley <wingram@blm.gov>
Sent: Tuesday, May 21, 2013 11:01 AM
To: Goetze, Phillip, EMNRD
Subject: Re: Endurance 25 Federal Well 2: Confirmation of Correspondence

Phillip,

I based my comments off of the C-108 that we received. I have talked with EOG and they will propose perforations below the depth in question when they submit their sundry. Therefore, the BLM's concern is addressed. However, if NMOCD decides to add a depth to their approval that would be a reinforcement.

Thank you.

Sincerely,
Wesley W. Ingram
Supervisory Petroleum Engineer
Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Phone: 575-234-5982
Fax: 575-234-5927

On Tue, May 21, 2013 at 9:29 AM, Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us> wrote:

Wesley:

I received your correspondence regarding the Endurance 25 Fed 2 (API 30-025-41067) and proposed use as a SWD. I was somewhat confused since OCD has not received a formal application. I did review the well history and noted the subtle transition in the notices from oil well to SWD. I'll will notify you when the C108 for this well comes. PRG

Phillip R. Goetze, P.G.

Engineering Bureau, Oil Conservation Division

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

O: 505.476.3466 F: 505.476.3462