DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO
06/24/13		PG	06/25/2013	SWD	pAXK-1317e S 4546

ABOVE THIS LINE FOR DIVISION USE ONLY

1440

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

RECEIVED
2013 JUN 24 P 3:02

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]

30-025-29000
EOG Resources
Diamond 31 Fed Com #1

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

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

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

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

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

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

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

Stan Wagner	Stan Wagner	Regulatory Analyst	6/20/13
Print or Type Name	Signature	Title	Date

e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

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: Stan Wagner DATE: 6/20/2013

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

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 1

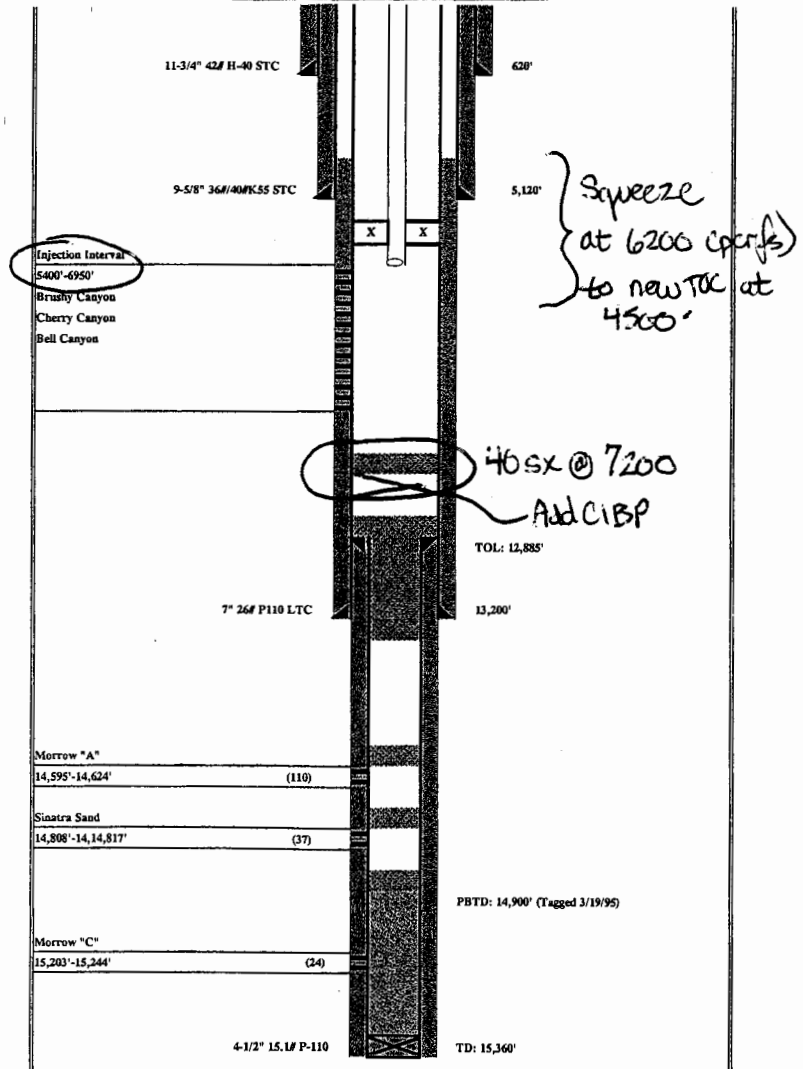
INJECTION WELL DATA SHEET

OPERATOR: EOG Resources, Inc.

WELL NAME & NUMBER: Diamond 31 Fed 1

WELL LOCATION:	1980' FSL & 1980' FWL	K	31	24S	34E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



PROPOSED

WELL CONSTRUCTION DATA

Surface Casing

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

Cemented with: 515 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

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

Cemented with: 2475 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

Production Casing

Hole Size: 8-3/4" Casing Size: 7"

Cemented with: 1200 sx. *or* _____ ft³

Top of Cement: ~4500 * Method Determined: Calculation

Total Depth: 10500

Injection Interval

5400 feet to ~~7200~~ 7200 ~~6950~~

(Perforated or Open Hole; indicate which)

Side 2

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: +/- 5450'

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.

   Morrow 15203 - 15242' covered by fill. 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:

Leonard A Shale	9330'	9078
1st Bone Spring Sand	10290'	
Morrow	15150'	

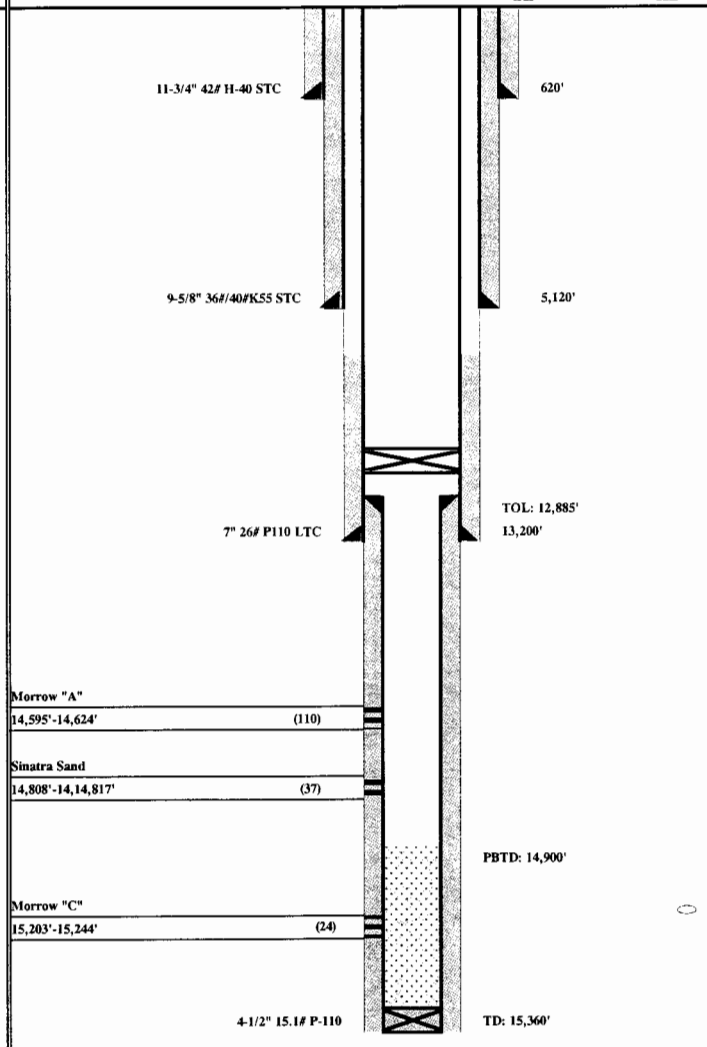
DIAMOND 31 FED COM #1

API# 30-025-29000
Sect 31, T24S, R34E
1980' FSL & 1980' FWL
Lea County, NM

eog resources
energy opportunity growth

SPUD TD
DRILLING
LAST REVISED 5/30/2013 SMB
WI NRI

Formation Tops	GL KB	Hole	AFE #



17-1/2" TOC @ Surface

12-1/4" TOC @ Surface

TOC ±6225'

7" BHI RBP @ 12,500' with 15klbs compression

8-3/4"

6-1/8"

ROD DETAIL

COUNT	SIZE	ITEM	DEPTH

TUBING DETAIL

COUNT	SIZE	ITEM	DEPTH

Tubular Dimensions	Burst	Collapse	ID	Drift	bbl/ft

DIAMOND 31 FED COM #1

API# 30-025-29000
Sect 31, T24S, R34E
1980' FSL & 1980' FWL
Lea County, NM

eog resources
energy opportunity growth

	SPUD	TD
DRILLING	10/16/1984	12/9/1984
LAST REVISED	5/30/2013	SMB

WI NRI

Formation Tops	GL KB	Hole	AFE #
	11-3/4" 42# H-40 STC 620'	17-1/2"	TOC @ Surface
			Proposed Disposal is 5400'-6950'
	9-5/8" 36#/40#K55 STC 5,120' — New TOC ± 4500	12-1/4"	TOC @ Surface
	Injection Interval 5400'-6950' Brushy Canyon Cherry Canyon Bell Canyon [TOC 6225 ±]		TOC @ ±4,500' EOT @ 5400'
			___sx Class C Squeezed @ _____
	3 Add CIBP		Spot 40sx Class H @ 7200' TAG
	TOL: 12,885'		
	7" 26# P110 LTC 13,200'	8-3/4"	Spot 60sx Class H @ 13,300' TAG
	Morrow "A" 14,595'-14,624' (110)		Spot 20sx Class H @ 14,545' TAG
	Sinatra Sand 14,808'-14,14,817' (37)		Spot 20sx Class H @ 14,758' TAG
	PBTD: 14,900' (Tagged 3/19/95)		Spot 20sx Class H @ ±14900' TAG
	Morrow "C" 15,203'-15,244' (24)		
	4-1/2" 15.1# P-110 TD: 15,360'	6-1/8"	
	PROPOSED		

ROD DETAIL

COUNT	SIZE	ITEM	DEPTH

TUBING DETAIL

COUNT	SIZE	ITEM	DEPTH

Tubular Dimensions	Burst	Collapse	ID	Drift	bbl/ft

APPLICATION FOR AUTHORIZATION TO INJECT
DIAMOND 31 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: 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 5400' – 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 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 one freshwater well 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~~" — Not Correct

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

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02373	C	LE	4	1		32	24S	34E	641979	3560916*	600		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Section(s): 32 **Township:** 24S **Range:** 34E

***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.

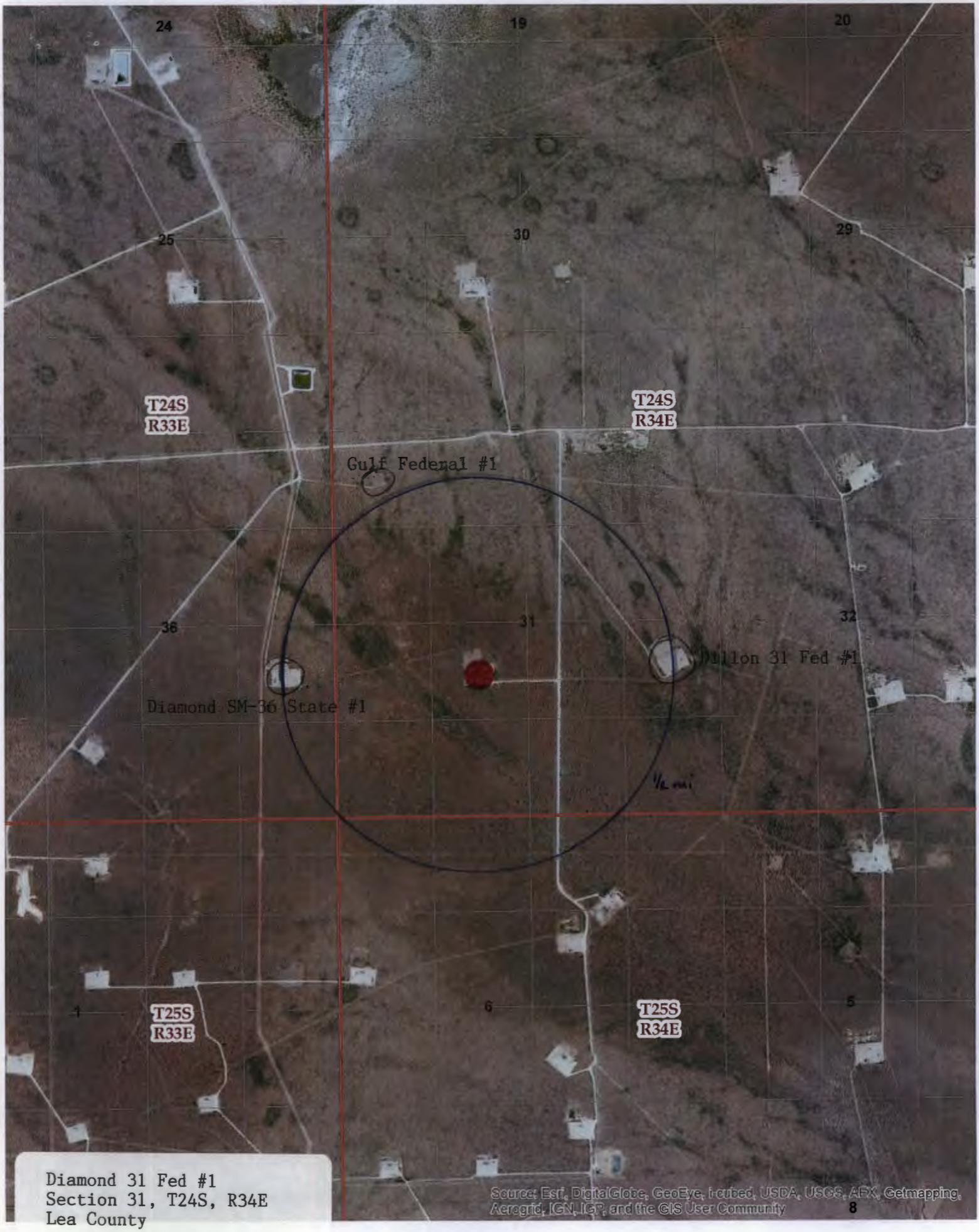
DIAMOND 31 FED COM #1 SUNDRY TO CONVERT TO SWD

API: 30-025-29000

SECT 31, T24S R34E

1980' FSL & 1980' FWL

1. Spot 20sx Class "H" cmt @ ±14,900' TAG
2. Spot 20sx Class "H" cmt @ 14,758' TAG
3. Spot 20sx Class "H" cmt @ 14,545' TAG
4. Spot 60sx Class "H" cmt @ 13,300' TAG
5. Spot 40sx Class "H" cmt @ 7200' TAG
6. Perforate 7" casing @ 6200' and squeeze 150sx Class C
7. Perforate injection interval between 5400'-6950'
8. Run 2-7/8" tubing to ±5400'
9. Put well on injection



Diamond 31 Fed #1
Section 31, T24S, R34E
Lea County

1/2 mile Review
Existing Wells

EOG Resources, Inc
1/2 Mile Area of Review
Application for Authorization to Inject Diamond 31 Fed 1

						Surface Casing			Production Casing			
Operator	Lease/Well	Status	Location	Spud Date	TMD	Size	Depth	Cement	Size	Depth	Cement	Producing Perforations
EOG Resources	Diamond 31 Fed Com 2H	Oil Producer	Sec 31, T24S, R34E	1/3/2013	16930'	13-3/8"	1263'	900 sx Class C	5-1/2"	16901'	350 sx C, 2175 sx H	9690 - 16829'
EOG Resources	Diamond 31 Fed Com 3H	Oil Producer	Sec 31, T24S, R34E	12/22/2012	16858'	13-3/8"	1263'	900 sx Class C	5-1/2"	16549'	350 sx C, 2150 sx H	9670 - 16461'
EOG Resources	Diamond 31 Fed Com 4H	Oil Producer	Sec 31, T24S, R34E	12/8/2012	16690'	13-3/8"	1260'	900 sx Class C	5-1/2"	16675'	350 sx C, 2175 sx H	9600 - 16566'
EOG Resources	Dillon 31 Fed 1	Oil Producer	Sec 31, T24S, R34E	3/29/1984	15275'	13-3/8"	600'	600 sx Class C	7"	13214'	1500 sx Class H	15087 - 15139'
EOG Resources	Dillon 31 Fed Com 2H	Proposed	Sec 31, T24S, R34E	Not Yet Drilled	16566'	11-3/4"	1255'	550 sx Class C	5-1/2"	16566'	150 sx C, 1700 sx H	~ 10000' to TD
EOG Resources	Dillon 31 Fed Com 3H	Proposed	Sec 31, T24S, R34E	Not Yet Drilled	16237'	11-3/4"	1255'	550 sx Class C	5-1/2"	16237'	150 sx C, 1700 sx H	~ 10000' to TD
EOG Resources	Dillon 31 Fed Com 4H	Proposed	Sec 31, T24S, R34E	Not Yet Drilled	16586'	11-3/4"	1245'	550 sx Class C	5-1/2"	16586'	150 sx C, 1700 sx H	~ 10000' to TD
EOG Resources	Diamond SM-36 State 1	Oil Producer	Sec 36, T24S, R33E	1/2/1985	15410'	13-3/8"	620'	515 sx Class C	7-5/8"	13272'	825 sx Class H	14674 - 14698'
									5-1/2"	12763 - 14970'	365 sx Class H	
									3-1/2"	14386 - 15410'	100 sx Class H	
	Gulf Federal 1	P&A 8/24/74	Sec 31, T24S, R34E	7/30/1974	5340'	8-5/8"	302'	Unknown	None			Dry Hole

30-025-24824

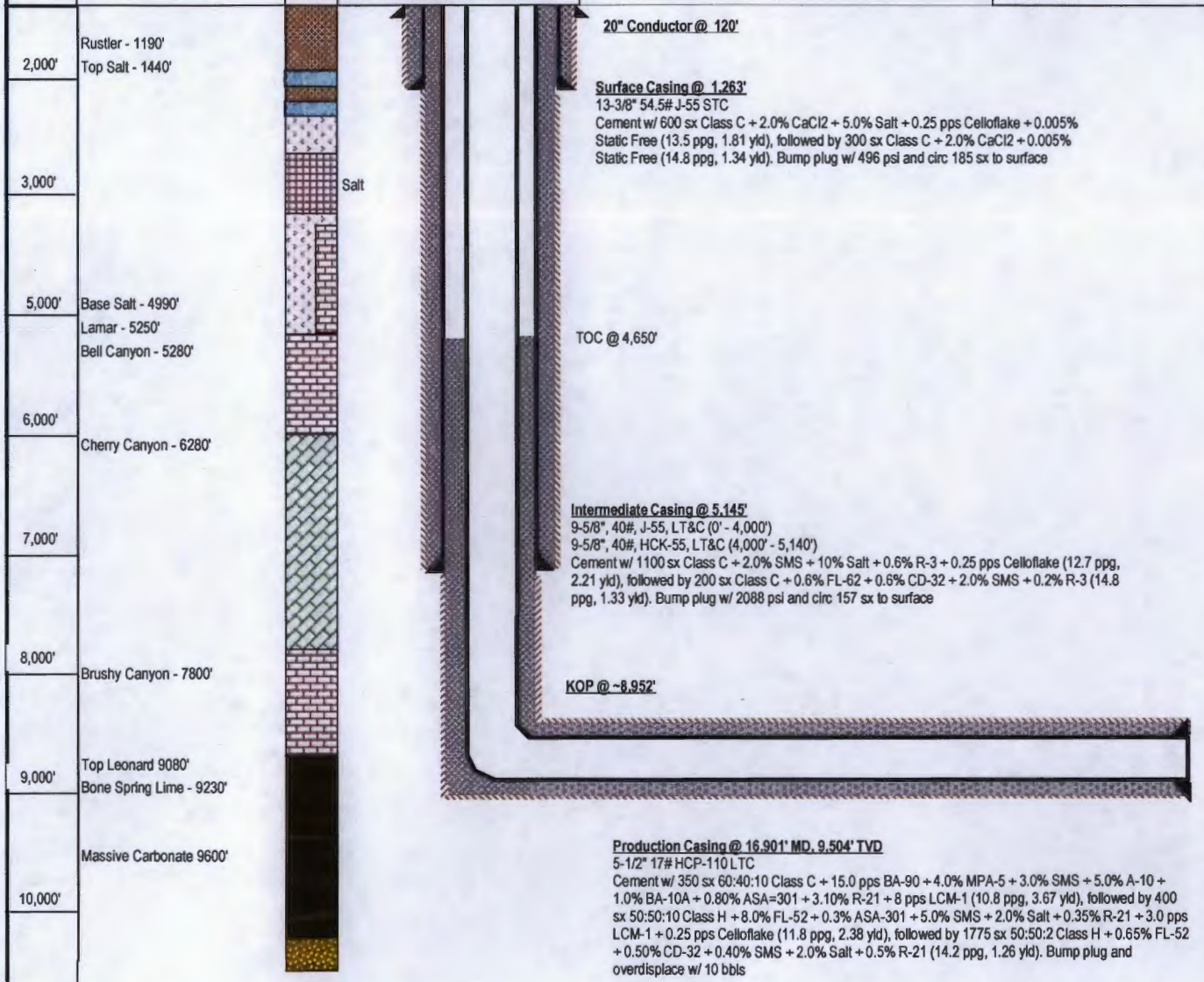
CURRENT WELL SKETCH

eog resources

API: 30-025-40484
AFE: 104502
SPUD: 1/3/13 @ 10:00 hrs
2/3/13 @ 13:00 hrs
FRR: 1/16/13 @ 00:00 hrs
2/16/13 @ 18:00 hrs
RIG: Felderhoff 25/Cactus #123

Diamond 31 Fed Com #2H
Red Hills(Bone Spring) Field
Lea County, New Mexico

SURF: 50' FNL, 430' FWL
LOC: Sec. 31
SURVEY: T-24-S, R-34-E
GL: 3500.6'
KB: 3530.6'
ZERO:



HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION
17-1/2"	8.6 – 9.0	FW	86	N/A	
12-1/4"	10.0 – 10.2	Brine	117	NA	
8-3/4" to EOC	8.4	WBM		N/A	
8-1/2" from EOC end of lateral	9.3	WBM	140		

Drlg Eng:	S. Brannan
Date:	2/19/2013

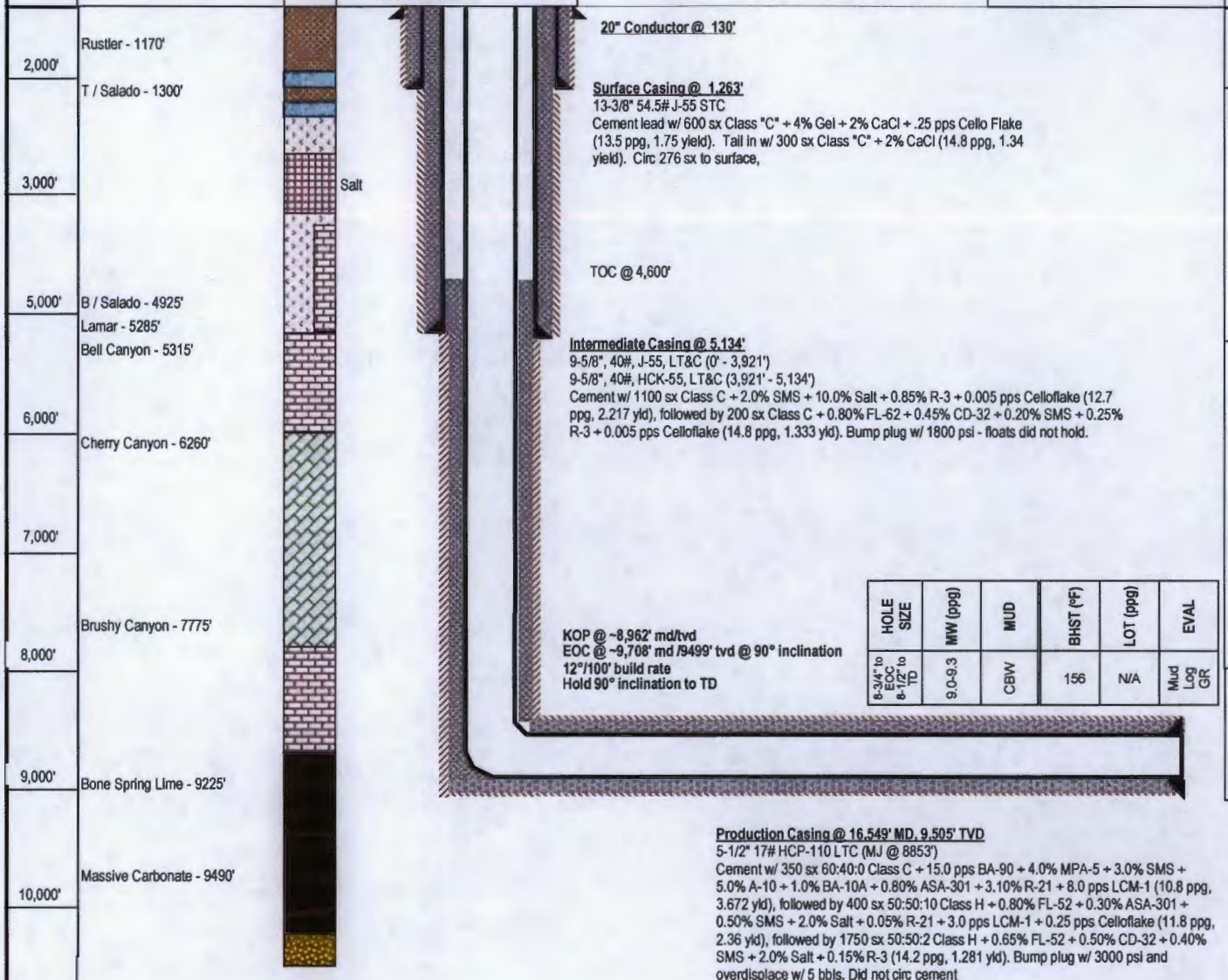
CURRENT WELL SKETCH

eog resources

API: 30-025-40485
AFE: 104838
SPUD: 12/22/2012 @ 14:00 hrs
1/17/13 @ 21:30 hrs
FRR: 1/2/13 @ 12:30 hrs
1/28/13 @ 17:00 hrs
RIG: Felderhoff #25 / Cactus #123

Diamond 31 Fed Com #3H
Red Hills(Bone Spring) Field
Lea County, New Mexico

SURF: 370' FNL & 1310' FWL
LOC: Sec. 31
SURVEY: T-24-S, R-34-E
GL: 3494.0'
KB: 3524.0'
ZERO: 30.0' AGL



20" Conductor @ 130'

Surface Casing @ 1,263'
13-3/8" 54.5# J-55 STC
Cement lead w/ 600 sx Class "C" + 4% Gel + 2% CaCl + .25 pps Cello Flake (13.5 ppg, 1.75 yield). Tail in w/ 300 sx Class "C" + 2% CaCl (14.8 ppg, 1.34 yield). Circ 276 sx to surface,

TOC @ 4,600'

Intermediate Casing @ 5,134'
9-5/8", 40#, J-55, LT&C (0' - 3,921')
9-5/8", 40#, HCK-55, LT&C (3,921' - 5,134')
Cement w/ 1100 sx Class C + 2.0% SMS + 10.0% Salt + 0.85% R-3 + 0.005 pps Celloflake (12.7 ppg, 2.217 yld), followed by 200 sx Class C + 0.80% FL-62 + 0.45% CD-32 + 0.20% SMS + 0.25% R-3 + 0.005 pps Celloflake (14.8 ppg, 1.333 yld). Bump plug w/ 1800 psi - floats did not hold.

KOP @ ~8,962' md/tvd
EOC @ ~9,708' md /9499' tvd @ 90° inclination
12°/100' build rate
Hold 90° inclination to TD

HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVAL
8-3/4" to EOC 8-1/2" to TD	9.0-9.3	CBW	156	N/A	Mud Log GR

Production Casing @ 16,549' MD, 9,505' TVD
5-1/2" 17# HCP-110 LTC (MJ @ 8853')
Cement w/ 350 sx 60:40:0 Class C + 15.0 pps BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 3.10% R-21 + 8.0 pps LCM-1 (10.8 ppg, 3.672 yld), followed by 400 sx 50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.50% SMS + 2.0% Salt + 0.05% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake (11.8 ppg, 2.36 yld), followed by 1750 sx 50:50:2 Class H + 0.65% FL-52 + 0.50% CD-32 + 0.40% SMS + 2.0% Salt + 0.15% R-3 (14.2 ppg, 1.281 yld). Bump plug w/ 3000 psi and overdisplace w/ 5 bbls. Did not circ cement

HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION
17-1/2"	8.6 - 9.0	FW	65		Mud Log
12-1/4"	10.0	Brine Water	117	NA	Mud Log
8-3/4" from ICP to EOC	8.4 - 9.0	WBM		N/A	Mud Log
8-1/2" In Lateral			156		

Drlg Eng:	S. Brannan
Date:	1/28/2013

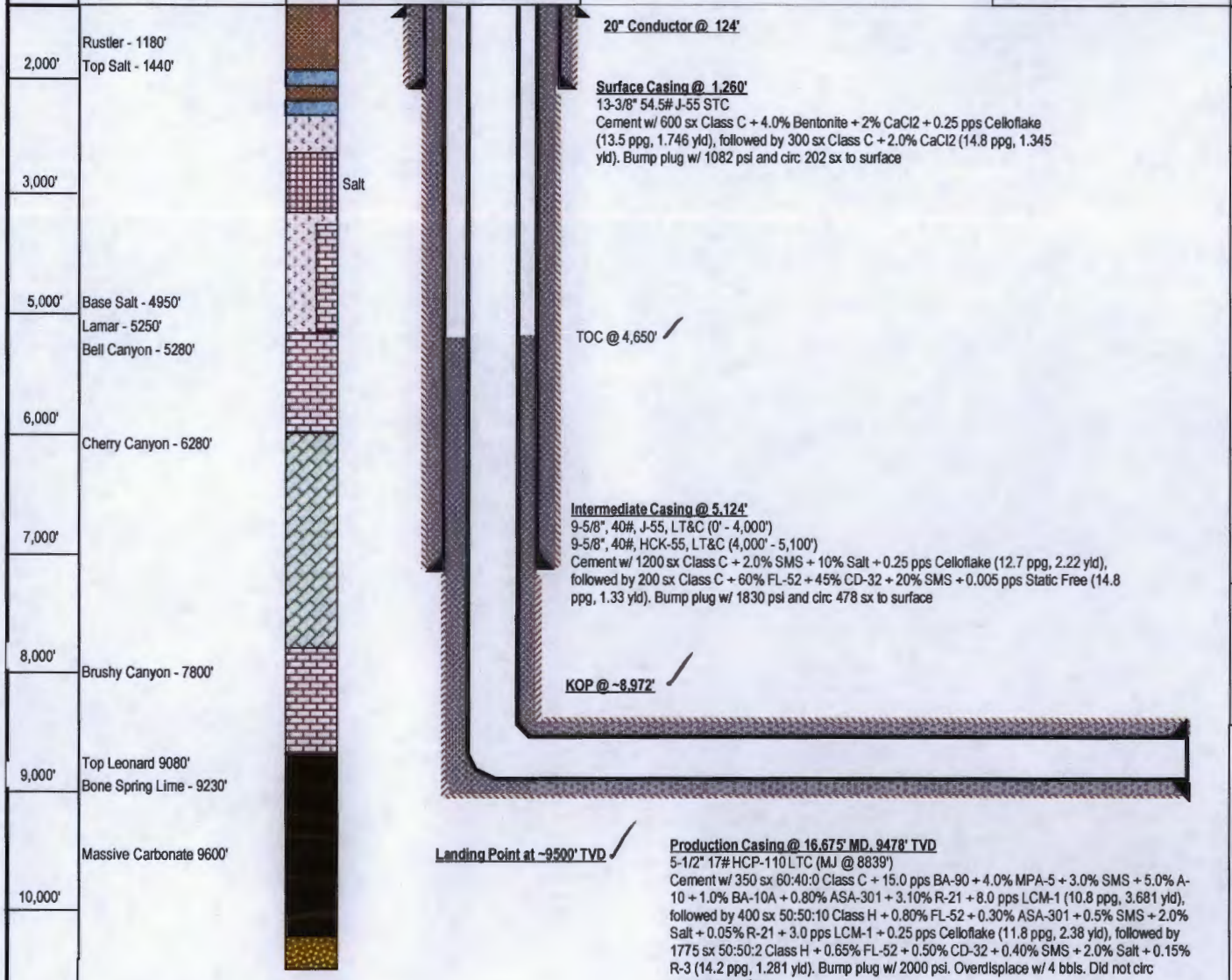
CURRENT WELL SKETCH

eog resources

API: 30-025-40486
AFE: 104933
SPUD: 12/8/12 @ 19:00 hrs
12/29/12 @ 22:30 hrs
FRR: 12/21/12 @ 06:00 hrs
1/12/13 @ 08:00 hrs
RIG: Felderhoff #25/Cactus #123

Diamond 31 Fed Com #4H
Red Hills(Bone Spring) Field
Lea County, New Mexico

SURF: 280' FSL, 2188' FWL
LOC: Sec. 31
SURVEY: T-24-S, R-34-E
GL: 3496.1'
KB: 3526.1
ZERO:

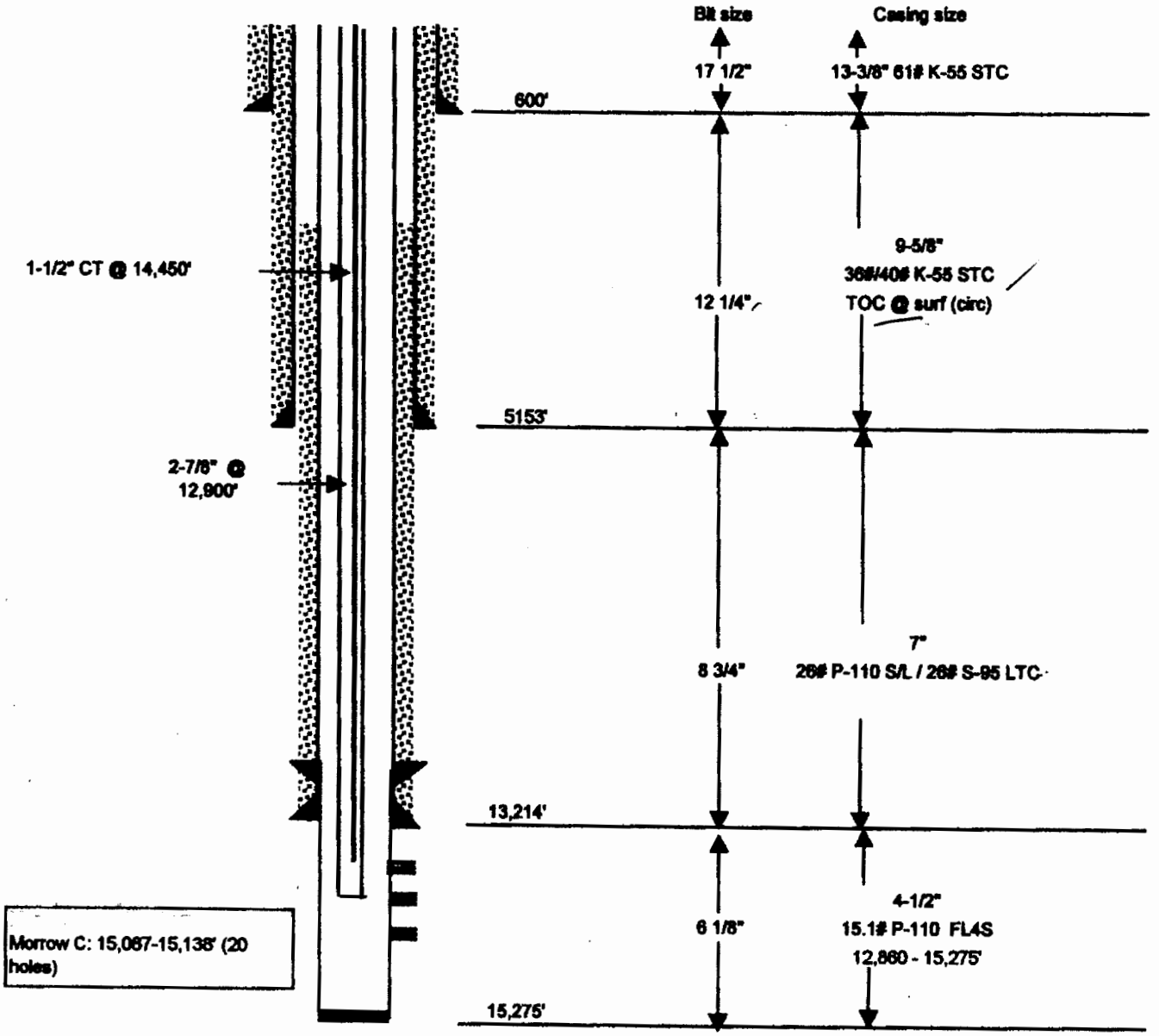


HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION
17-1/2"	8.6 – 9.0	FW	86	N/A	
12-1/4"	10.0 – 10.2	Brine	117	NA	
8-3/4" from ICP to	8.4	WBM		N/A	
8-1/2 in Lateral	9.3		156		

Drlg Eng:	S. Brannan
Date:	1/14/2013

eog resources

Dillion 31 Fed No. 1
2080' FSL & 660' FEL
Sec. 31-24S-34E
Lea County, New Mexico
API: 30-025-28643



TD 15,275'

1/13/2006

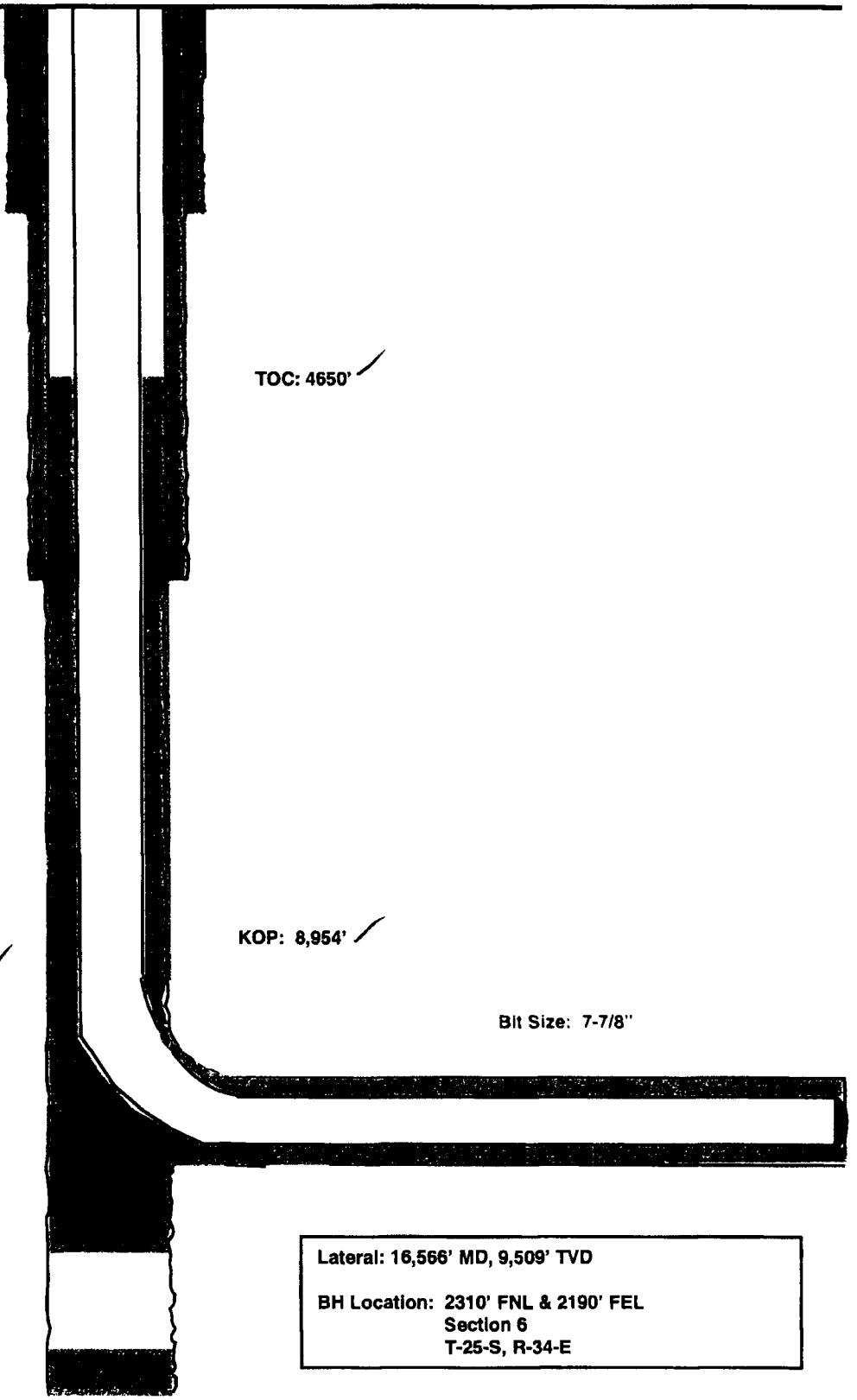
Dillon 31 Fed Com #2H
Pitchfork Ranch
Lea County, New Mexico

280' FNL
2370' FEL
Section 31
T-24-S, R-34-E

Proposed Wellbore

API: 30-025-

KB: 3,526.5'
GL: 3,496.5'



Lateral: 16,566' MD, 9,509' TVD

BH Location: 2310' FNL & 2190' FEL
Section 6
T-25-S, R-34-E

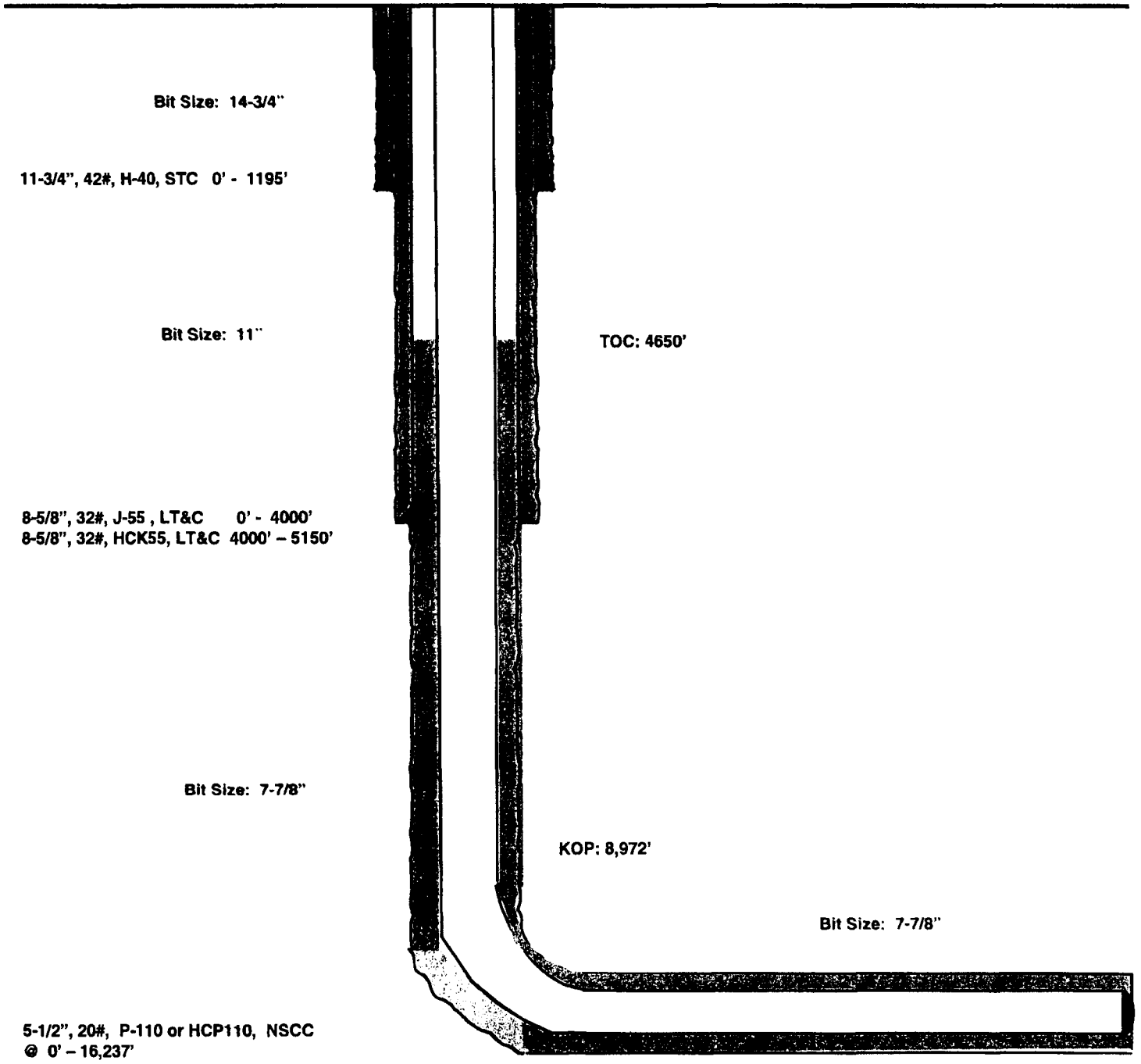
Dillon 31 Fed Com #3H
Pitchfork Ranch
Lea County, New Mexico

590' FNL
1310' FEL
Section 31
T-24-S, R-34-E

Proposed Wellbore

API: 30-025-

KB: 3,518.7'
GL: 3,488.7'



Lateral: 16,237' MD, 9,507' TVD

BH Location: 2310' FNL & 1310' FEL
Section 6
T-25-S, R-34-E

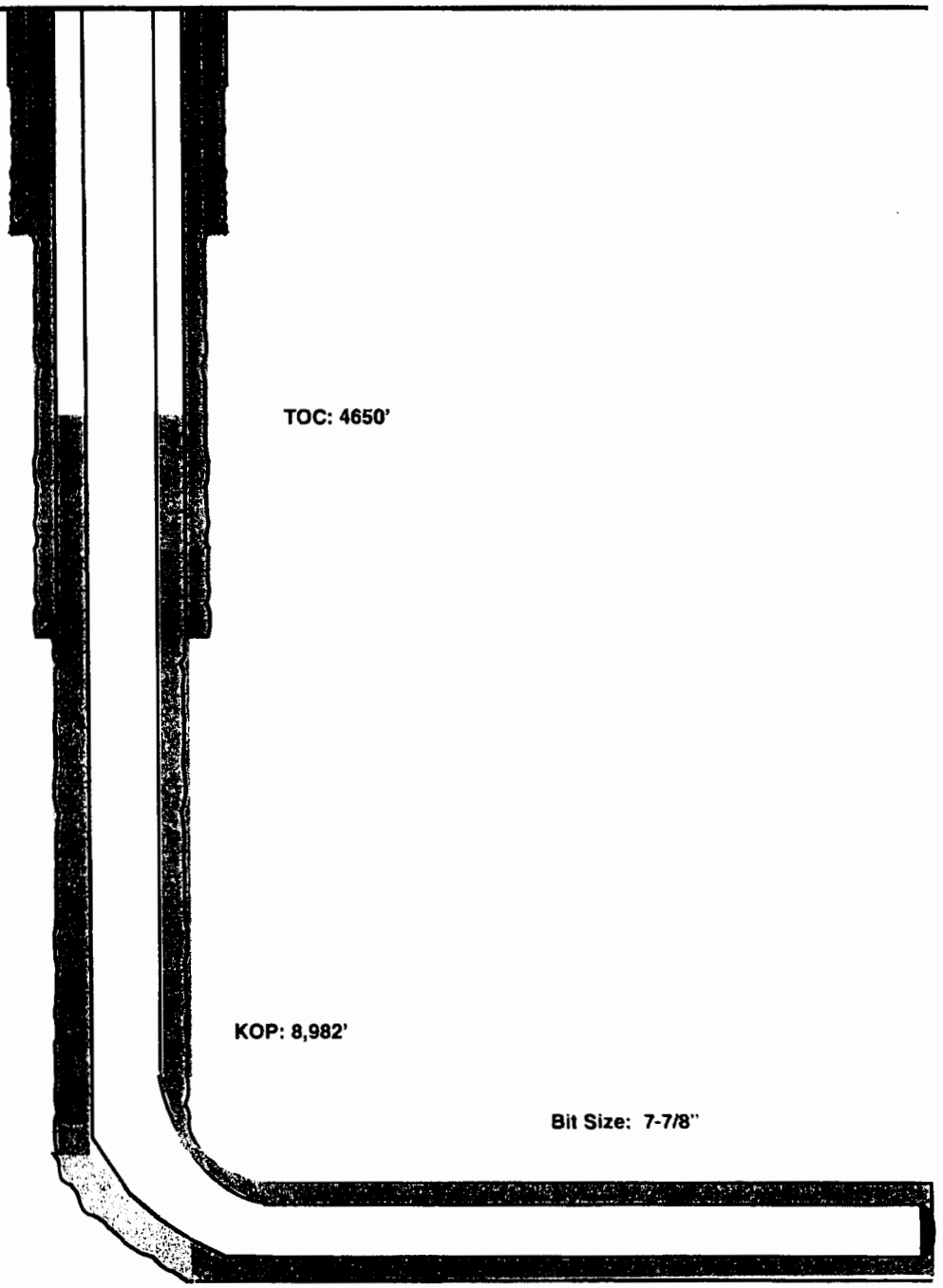
Dillon 31 Fed Com #4H
Pitchfork Ranch
Lea County, New Mexico

250' FNL
430' FEL
Section 31
T-24-S, R-34-E

Proposed Wellbore

API: 30-025-

KB: 3,513.9'
GL: 3,483.9'



Bit Size: 14-3/4"

11-3/4", 42#, H-40, STC 0' - 1185'

Bit Size: 11"

TOC: 4650'

8-5/8", 32#, J-55 , LT&C 0' - 4000'
8-5/8", 32#, HCK55, LT&C 4000' – 5150'

Bit Size: 7-7/8"

KOP: 8,982'

Bit Size: 7-7/8"

5-1/2", 20#, P-110 or HCP110, NSCC
@ 0' – 16,586'

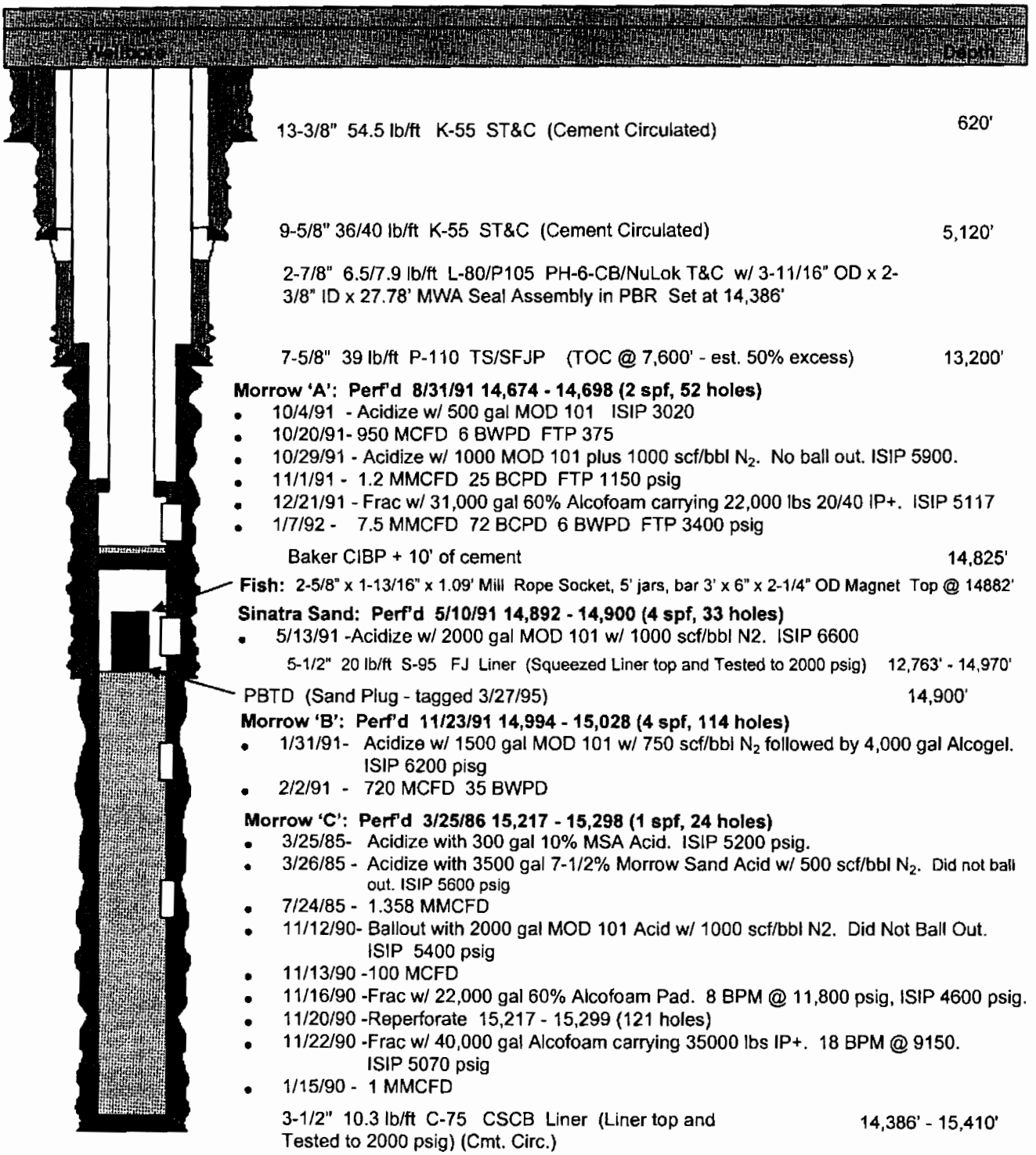
Lateral: 16,586' MD, 9,520' TVD

BH Location: 2310' FNL & 430' FEL
Section 6
T-25-S, R-34-E

Enron Oil & Gas Company

Diamond 'SM-36' State No. 1
Lea County, New Mexico
March 28, 1996

WELL SCHEMATIC



13-3/8" 54.5 lb/ft K-55 ST&C (Cement Circulated) 620'

9-5/8" 36/40 lb/ft K-55 ST&C (Cement Circulated) 5,120'

2-7/8" 6.5/7.9 lb/ft L-80/P105 PH-6-CB/NuLok T&C w/ 3-11/16" OD x 2-3/8" ID x 27.78' MWA Seal Assembly in PBR Set at 14,386'

7-5/8" 39 lb/ft P-110 TS/SFJP (TOC @ 7,600' - est. 50% excess) 13,200'

Morrow 'A': Perf'd 8/31/91 14,674 - 14,698 (2 spf, 52 holes)

- 10/4/91 - Acidize w/ 500 gal MOD 101 ISIP 3020
- 10/20/91- 950 MCFD 6 BWPD FTP 375
- 10/29/91 - Acidize w/ 1000 MOD 101 plus 1000 scf/bbl N_2. No ball out. ISIP 5900.
- 11/1/91 - 1.2 MMCFD 25 BCPD FTP 1150 psig
- 12/21/91 - Frac w/ 31,000 gal 60% Alcofoam carrying 22,000 lbs 20/40 IP+. ISIP 5117
- 1/7/92 - 7.5 MMCFD 72 BCPD 6 BWPD FTP 3400 psig

Baker CIBP + 10' of cement 14,825'

Fish: 2-5/8" x 1-13/16" x 1.09' Mill Rope Socket, 5' jars, bar 3' x 6" x 2-1/4" OD Magnet Top @ 14882'

Sinatra Sand: Perf'd 5/10/91 14,892 - 14,900 (4 spf, 33 holes)

- 5/13/91 -Acidize w/ 2000 gal MOD 101 w/ 1000 scf/bbl N2. ISIP 6600

5-1/2" 20 lb/ft S-95 FJ Liner (Squeezed Liner top and Tested to 2000 psig) 12,763' - 14,970'

PBTD (Sand Plug - tagged 3/27/95) 14,900'

Morrow 'B': Perf'd 11/23/91 14,994 - 15,028 (4 spf, 114 holes)

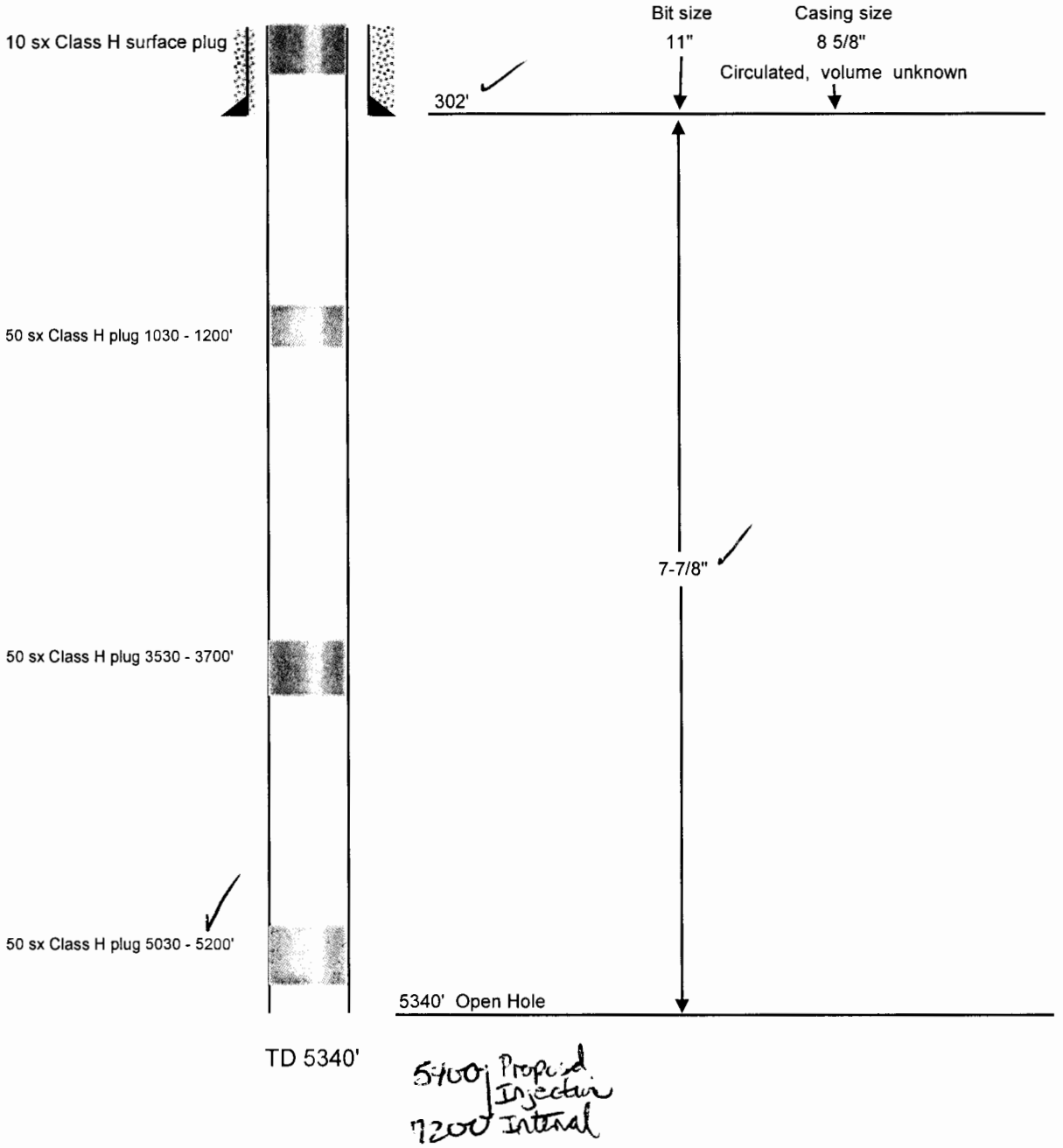
- 1/31/91- Acidize w/ 1500 gal MOD 101 w/ 750 scf/bbl N_2 followed by 4,000 gal Alcogel. ISIP 6200 pisg
- 2/2/91 - 720 MCFD 35 BWPD

Morrow 'C': Perf'd 3/25/86 15,217 - 15,298 (1 spf, 24 holes)

- 3/25/85- Acidize with 300 gal 10% MSA Acid. ISIP 5200 psig.
- 3/26/85 - Acidize with 3500 gal 7-1/2% Morrow Sand Acid w/ 500 scf/bbl N_2. Did not ball out. ISIP 5600 psig
- 7/24/85 - 1.358 MMCFD
- 11/12/90- Ballout with 2000 gal MOD 101 Acid w/ 1000 scf/bbl N2. Did Not Ball Out. ISIP 5400 psig
- 11/13/90 -100 MCFD
- 11/16/90 -Frac w/ 22,000 gal 60% Alcofoam Pad. 8 BPM @ 11,800 psig, ISIP 4600 psig.
- 11/20/90 -Reperforate 15,217 - 15,299 (121 holes)
- 11/22/90 -Frac w/ 40,000 gal Alcofoam carrying 35000 lbs IP+. 18 BPM @ 9150. ISIP 5070 psig
- 1/15/90 - 1 MMCFD

3-1/2" 10.3 lb/ft C-75 CSCB Liner (Liner top and Tested to 2000 psig) (Cmt. Circ.) 14,386' - 15,410'

Gulf Federal #1
660' FNL & 660' FWL
Sec. 31-24S-34E
Lea County, New Mexico
30-025-24824



6/12/2013

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: NM 0554513

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 30-025-24824

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other P & A

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Gulf Federal

2. NAME OF OPERATOR: Robert E. Landreth

9. WELL NO.: No. 1

3. ADDRESS OF OPERATOR: 402 Gihls Towers East, Midland, Texas 79701

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 660' FNL & 630' FWL
At top prod. interval reported below
At total depth: same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 31, T24S, R34E

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: Lea | 13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
07-30-74	08-24-74		3490.5'GL	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5340'			→	0 - TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: DRY HOLE

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: BHC Sonic and Induction Electric

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	302' (GL)	11"	Circulated	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
		P&A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
				–		

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Robert E Landreth TITLE Operator DATE 08-27-74

*(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 issued 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 35.

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 zone (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 29: *"Sacks 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 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Rustler	1150'	5240'	Anhydrite and salt
Lamar	5240'	5282'	Lime and shale
Delaware Sand	5282'	5340	Sand - water by log calculations
Total Depth	5340'		

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Lamar Lime	5240'	(-1740')
Delaware sand	5282'	(-1782')

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636
837-427

BORG WARNER RECEIVED AUG 2 7 1974

BYRON JACKSON INC.

CEMENTING AFFIDAVIT

I, Gene Leeth, being of lawful age and having full knowledge of the facts herein below set out do state: I am employed by Byron Jackson Inc. On 8-24-19 74, BYRON JACKSON INC. performed the cementing operation herein described for Robert E. Landreth on their Well No. 1 on the Gulf Fed. lease located in Lea County, State of N.M..

CASING CEMENTING: Name or type of string was Plug. Information provided by the Customer Company states that the casing was _____ in. O.D. set in _____ inch hole, and that the casing depth set was _____ feet. For this job the following materials were used:

An estimated _____ sacks of excess cement was circulated out of the well.

CEMENT PLUG: Information provided by the Customer Company states that the hole size was 7-7/8 inches, and total depth was 5200 feet. For this job the following materials were used to place plugs as indicated:

Plug from 5200 ft. to 5030 ft. with	50	sacks of	Class H Cement
3700	3530	50	"
1200	1030	50	"
Surface		10	"

SIGNED: BYRON JACKSON INC.

BY- Gene Leeth

DATE: 8-24-74

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

ANALYSIS COMPLETED: 03-26-2013
SAMPLE RECEIVED: 03-20-2013
LAB NUMBER: 15350

SAMPLE SOURCE: VACA 24 FED COM 2-H SAMPLED 03/19/13

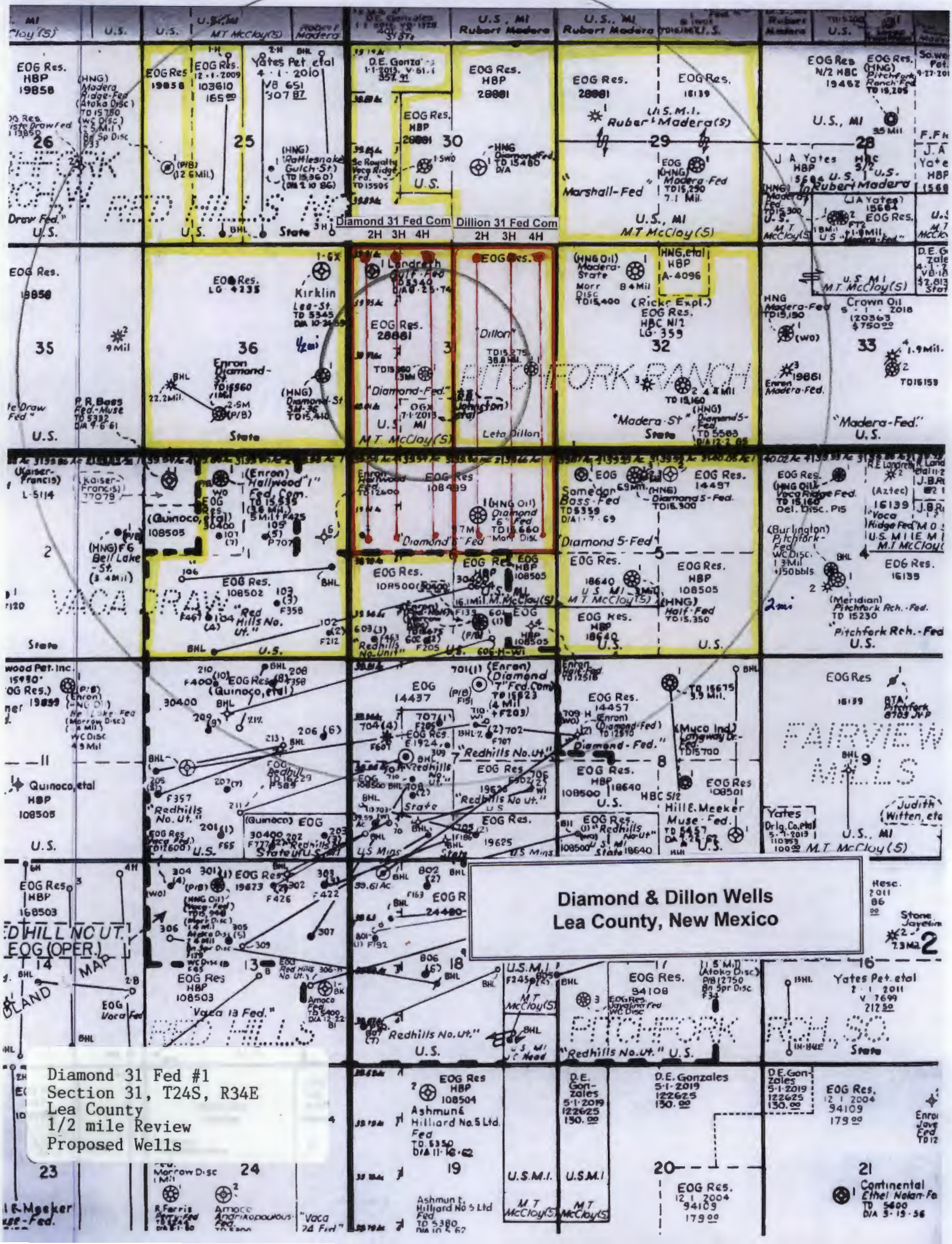
DISSOLVED SOLIDS:

CATIONS:		MEQ/L	mg/L
SODIUM (CALC.)	(Na+)	1939.37	44606
CALCIUM	(Ca++)	52.00	1040
MAGNESIUM	(Mg++)	16.00	195
ANIONS:			
CHLORIDE	(Cl-)	1834.20	65114
SULFATE	(SO4=)	76.15	3655
CARBONATE	(CO3=)	0.00	0
BICARBONATE	(HCO3-)	97.02	5918
HYDROXIDE	(OH-)	0.00	0
TOTAL DISSOLVED SOLIDS:			120528

OTHER PROPERTIES:

pH	6.98		
SPEC. GRAV.	1.07		
CONDUCTIVITY @ 77 °F	233000	µMHOS/CM	
H2S	0	mg/L	
CO2	334	mg/L	
IRON	12.00	mg/L	

P-ALKALINITY (AS CaCO3)	0 mg/L
M-ALKALINITY (AS CaCO3)	4851 mg/L
CALCIUM HARDNESS (AS CaCO3)	2600 mg/L
MAGNESIUM HARDNESS (AS CaCO3)	800 mg/L
TOTAL HARDNESS (AS CaCO3)	3400 mg/L


Diamond 31 Fed Com
2H 3H 4H
Dillion 31 Fed Com
2H 3H 4H
Diamond & Dillon Wells
Lea County, New Mexico
Diamond 31 Fed #1
Section 31, T24S, R34E
Lea County
1/2 mile Review
Proposed Wells

eog resources

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

June 12, 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 Diamond 31Fed 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 Diamond 31 Fed 1 is located 1980 feet from the South line and 1980 feet from the West line of Section 31, Township 24 South, Range 34 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 5400 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.

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*) Lisa J Scott

C. Date of Delivery 6/14/13

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*) 7010 3090 0001 8453 4667

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
May 31, 2013
and ending with the issue dated
May 31, 2013

PUBLISHER
Sworn and subscribed to before me
this 31st day of
May, 2013

Notary Public

My commission expires
January 29, 2015
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-15

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

LEGAL LEGAL

Legal Notice
May 31, 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 **Diamond 31 Fed No. 1** is located 1980' FSL & 1980 FWL, Section 31, Township 24 South, Range 34 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 5400'-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.
#28179

01105308 00115609

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

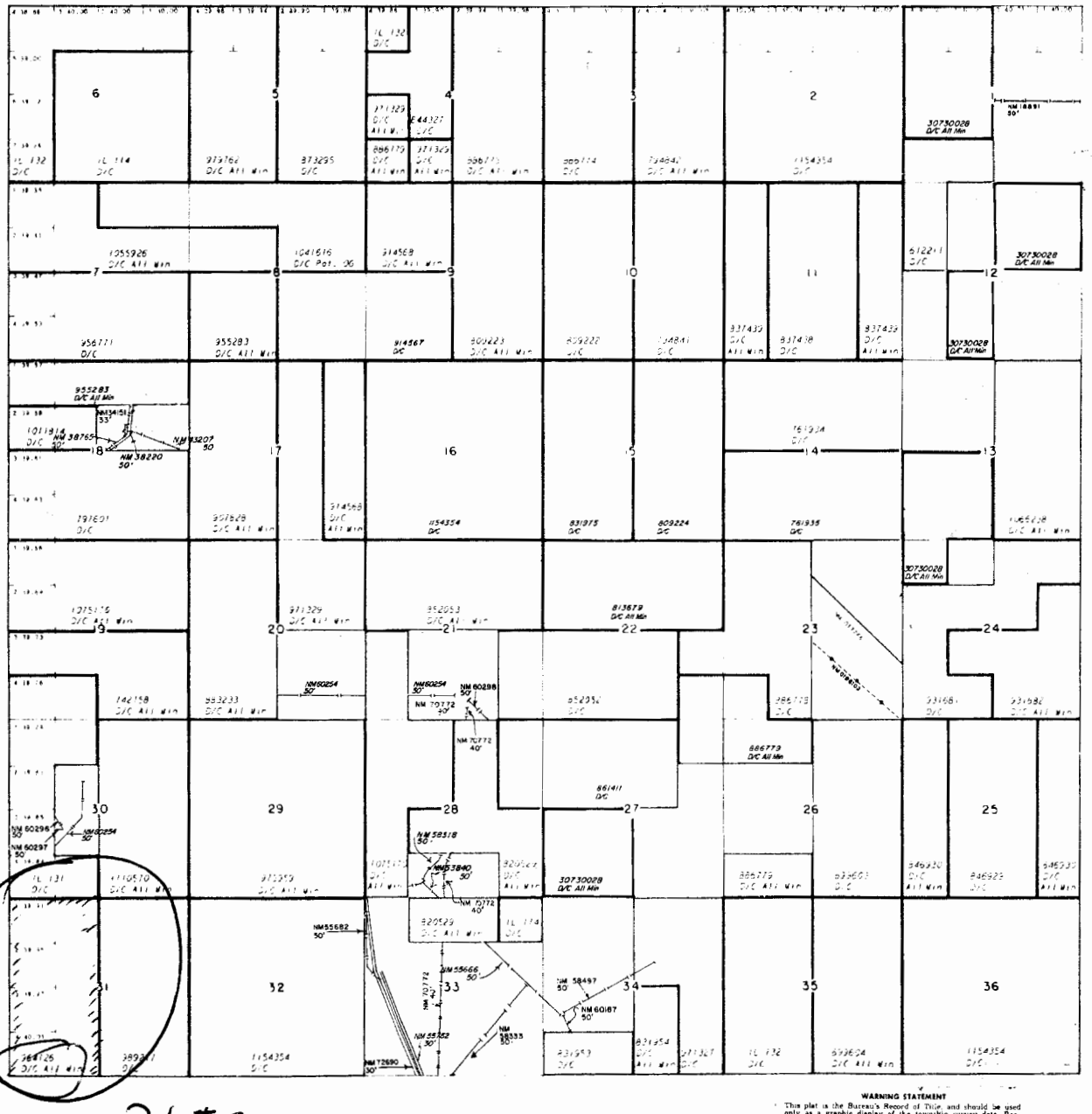
TOWNSHIP 24 SOUTH, RANGE 34 EAST, OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO.

LEA COUNTY — 025

NM-6

STATUS OF PUBLIC DOMAIN
LAND AND MINERAL TITLES

MTP



SRHE Pat # 964126
7/30/1925

WARNING STATEMENT

This plat is the Bureau's Record of Title and should be used only as a graphic display of the township survey data. Records hereon do not reflect title changes which may have been effected by lateral movements of rivers or other bodies of water. Refer to the cadastral surveys for official survey information.

SCALE 0 20 40 60

Lat 32° 0' N
Long 103° 25' W

INDEX TO SEGREGATED TRACTS

RESURVEY TRACT NO	ORIGINAL SURVEY T	R	SEC	SUBDIVISION

FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS WITHDRAWN FOR CLASSIFICATION, MINERALS, WATER AND/OR OTHER PUBLIC PURPOSES, REFER TO INDEX OF MISCELLANEOUS DOCUMENTS

ALL "P" INCLUDED IN E.O. NOS. [illegible] POT. RES. 8, 3/31/1926

CURRENT TO	BY

T 24 S
R 34 E

eog resources

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

August 21, 2013

Mr. Mark McCloy
P.O. Box 1076
Jal, New Mexico 88252

Re: Application of EOG Resources, Inc. for administrative approval of Diamond 31 Fed No. 1, Lea County, New Mexico.
Application for a Saltwater Disposal Well

Mr. McCloy:

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 Saltwater Disposal Injection Well: the Diamond 31 Fed No. 1 located 1980 feet from the South line and 1980 feet from the West line of Section 31 in Township 24 South, Range 34 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 5955 feet to 7070 feet. The injection will occur with a maximum injection pressure of 1170 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.

Stan Wagner
Regulatory Analyst

7013 1090 0000 1557 3400

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Sent To: Mark McCloy
Street, Apt. No., or PO Box No.: P.O. Box 1076
City, State, ZIP+4: Jal, NM 88252

PS Form 3800, August 2006 — See Reverse for Instructions

Mailed 8/21/13

Track & Confirm

GET EMAIL UPDATES PRINT DETAILS

YOUR LABEL NUMBER	SERVICE	STATUS OF YOUR ITEM	DATE & TIME	LOCATION	FEATURES
70131090000015573400		Delivered	August 26, 2013, 3:22 pm	JAL, NM 88252	Certified Mail™
		Available for Pickup	August 22, 2013, 8:27 am	JAL, NM 88252	
		Depart USPS Sort Facility	August 22, 2013	LUBBOCK, TX 79402	
		Processed through USPS Sort Facility	August 22, 2013, 1:44 am	LUBBOCK, TX 79402	
		Depart USPS Sort Facility	August 21, 2013	MIDLAND, TX 79711	
		Processed through USPS Sort Facility	August 21, 2013, 9:02 pm	MIDLAND, TX 79711	

Check on Another Item

What's your label (or receipt) number?

Find

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Goetze, Phillip, EMNRD

From: Stan_Wagner@eogresources.com
Sent: Wednesday, August 28, 2013 2:59 PM
To: Goetze, Phillip, EMNRD
Subject: Diamond 31 Fed 1 SWD application
Attachments: Diamond 31-1 SWD Surface Notification.pdf

Good afternoon Phillip,

The additional surface notification was delivered on 8/26/13, for our Diamond 31 Fed #1 SWD application.

Thanks,

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

(See attached file: Diamond 31-1 SWD Surface Notification.pdf)

C-108 Review Checklist: Received 06/24/13 Add. Request: 08/21/13 Reply Date: 08/28/13 Suspended: 08/21/13 [Ver 8]

Issued Permit: WFX / PMX / SWD Number: 1440 Permit Date 09/16/13 Legacy Permits/Orders: —

Well No. 1 Well Name(s): Diamond 31 Federal Com.

API : 30-0 25-29000 Spud Date: 10/15/84 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1980 FSL / 1980 FWL Lot — Unit K Sec 31 Tsp 24S Rge 34E County Lea

General Location: Pitchfork Ranch / 15 mi NW of Jal Pool: Former Morrow - Pitchfork Ranch SWD; Delaware Mtn Pool No.: —

Operator: EOG Resources OGRID: 7377 Contact: Stan Wagner

COMPLIANCE RULE 5.9: Inactive Wells: 5 Total Wells: 482 Fincl Assur: Yes Compl. Order? No **IS 5.9 OK?** OK

Well File Reviewed ✓ Current Status: Former Morrow producer; 54yr Cum Prod: 597130/ 298,927 Mcf / 751 BW
Temp P&A - Morrow interval now covered with fill - 6/2013 to 6/2012

Well Diagrams: Proposed New ○ Before Conversion ✓ After Conversion ✓ Are Elogs in Imaging?: Yes 29 Mcf

Planned Rehab Work to Well: Plug lower interval (5 cmt plugs); squeeze Cmt around 7" casing to bring TOC up to 4500 ±; Perf Delaware Interval

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __ or Existing __ Cond	—	—		—	—
Planned __ or Existing ✓ Surface	17 1/2 / 13 3/8	0 to 620		515	Cir. to surface
Planned __ or Existing ✓ Interm/Prod	12 1/4 / 9 5/8	0 to 5120	?	2475	Cir. to surface
Planned __ or Existing ✓ Long St/Prod	8 3/4 / 7	0 to 13200	?	1200	Calc.
Planned __ or Existing ✓ Liner	6 1/2 / 4 1/2	12885 to 15360	TOC / 12885	360	Calc.
Planned ✓ or Existing __ OH / PERF	In 7 in casing	5440 - 7200	Inj Length 1760		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops?
Adjacent Unit: Litho. Struc. Por.	—	Salado	3712
Confining Unit: Litho. Struc. Por.	+122	Castile	4070
Proposed Inj Interval TOP:	~~5400~~ 5440	Bell Canyon	5218 Delaware
Proposed Inj Interval BOTTOM:	7200	Bonsay Canyon	—
Confining Unit: Litho. Struc. Por.	-2062	Leonard Shale	9262
Adjacent Unit: Litho. Struc. Por.	—	BS Lime	11891

Completion/Operation Details:

Drilled TD 15360 PBTD 12000 CIBP

New TD NA New PBTD 7200

Open Hole ○ or Perfs ✓

Tubing Size 3 1/2 Inter Coated? Yes

Proposed Packer Depth ± 5400

Min. Packer Depth 5340 (100-ft limit)

Proposed Max. Surface Press 2000

Admin Inj. Press 1088* (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ○ *Noticed?* NA **BLM Sec Ord** NA **WIPP** ○ *Noticed?* NA **SALADO:** T: 3712 B: 4070 **CLIFF HOUSE** NA

Fresh Water: FW Formation Alluvial / Ogallala Max Depth <100' Wells? (1) Analysis? No **Hydrologic Affirm Statement** Yes
Base of Ogallala at 3400 - 3450 onlit

Disposal Fluid: Formation Source(s) Bone Spring / EOG leases in Analysis? ___ On Lease ○ Operator Only ✓ or Commercial ○

Disposal Interval: Injection Rate (Avg/Max BWPD): 5000/10000 used Protectable Waters: No **CAPITAN REEF:** thru No adjacent No

H/C Potential: Producing Interval? No Formerly Producing? No Method: E Log /Mudlog/DST/Depleted/Other (1) Dry Holes & area DST in

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 6 Horizontals? 3 completed
Closest - Vaca Ridge Delaware 4/25S/35E - No production 3 - proposed

Penetrating Wells: No. Active Wells 5 Num Repairs? 0 on which well(s)? ___ Diagrams? ___

Penetrating Wells: No. P&A Wells 1 Num Repairs? 0 on which well(s)? ___ Diagrams? ___

NOTICE: Newspaper Date 05/31/2013 Mineral Owner BLM Surface Owner ~~BLM~~ Private N. Date 06/12/13
Second notification to rancher/surface 08/28/13

RULE 26.7(A): Identified Tracts? Yes Affected Persons: EOG only N. Date ___

Permit Conditions: **Issues:** Private owner notified / Cmt squeeze / No CIBP for PB / Gulf Fed #1

Add Permit Cond: (1) CIBG with 7200 cmt PB (2) top perfs lowered to 5440' due to Gulf Fed #1 (3) CBL for 7in casing squeeze