

RECEIVED: <u>05/23/2018</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>DMA m1816356788</u>
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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

**ADMINISTRATIVE APPLICATION CHECKLIST**

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

Applicant: Ray Westall Operating, Inc. **OGRID Number:** 119305
Well Name: Guardian 25 State No.1 **API:** 30-015-36577
Pool: SWD; Cisco-Canyon **Pool Code:** 96186

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD
 B. Check one only for [I] or [II]
 [I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

SWD-1741

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☒ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☒ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application Content Complete

- 3) **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.

Ben Stone

Print or Type Name

Signature

5/22/2018

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address



May 22, 2018

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

Attn: Ms. Heather Riley, Director

Re: Application of Ray Westall Operating, Inc. to permit for salt water disposal the Guardian 25 State Well No.1 SWD, API No.30-015-36577 located in Section 25, Township 19 South, Range 27 East, NMPM, Eddy County, New Mexico.

Dear Ms. Riley,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to reenter and convert for disposal, the Guardian 25 State Well No.1.

Ray Westall Operating seeks to optimize efficiency, both economically and operationally, of its operations. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the May 17, 2018 edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included in this application. This application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on state land and minerals and a copy of this application has been submitted to the State Land Office, Oil and Gas Division.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner
SOS Consulting, LLC
Agent for Ray Westall Operating, Inc.


Cc: Application attachment and file

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ***Salt Water Disposal*** and the application *qualifies* for administrative approval.
- II. OPERATOR: ***Ray Westall Operating, Inc. Ogrid - 119305***
ADDRESS: ***P.O. Box 4, Loco Hills, NM 88255***

CONTACT PARTY: ***Donnie Mathews (575) 677-2372***
Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850
- III. WELL DATA: ***All well data and applicable wellbore diagrams are ATTACHED hereto.***
- IV. ***This is not an expansion of an existing project.***
- V. ***A map is ATTACHED*** 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. ***A tabulation is ATTACHED*** of data on all wells of public record within the area of review which penetrate the proposed injection zone. ***(1 AOR well penetrates the subject interval – it is P&A'd.)*** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail.
- VII. ***The following data is ATTACHED*** 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. ***Appropriate geologic data on the injection zone is ATTACHED*** 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. ***The well may be acidized to clean perforations and formation.***
- *X. ***There is no applicable test data on the well however, any previous well logs have been filed with the Division and they need not be resubmitted. A log strip of subject interval is ATTACHED.***
- *XI. ***State Engineer's records indicate there are NO water wells within one mile the proposed SWD.***
- XII. ***An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found*** of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. ***"Proof of Notice" section on the next page of this form has been completed and ATTACHED.***
There are 8 offset and/or operators plus state minerals within one mile - all have been noticed.
- 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: ***Ben Stone*** TITLE: ***SOS Consulting, LLC agent / consultant for Ray Westall Operating, Inc.***

SIGNATURE:  DATE: ***5/22/2018***

E-MAIL ADDRESS: ***ben@sosconsulting.us***

* 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:

III. WELL DATA – *The following information and data is included and ATTACHED:*

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 *pursuant to the following criteria is ATTACHED.*

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.

C-108 - Items III, IV, V

Item III - Subject Well Data

Wellbore Diagram - CURRENT

Wellbore Diagram – PROPOSED

The well is currently P&A'd and will be reentered
To configure pending SWD authorization.

Item IV – Tabulation of AOR Wells

Tabulation includes 2 wells within a one-half mile
radius of the subject well and which penetrate the proposed interval.
1 well does NOT penetrate; P&A Diagrams for 1 well.

Item V – Area of Review Maps

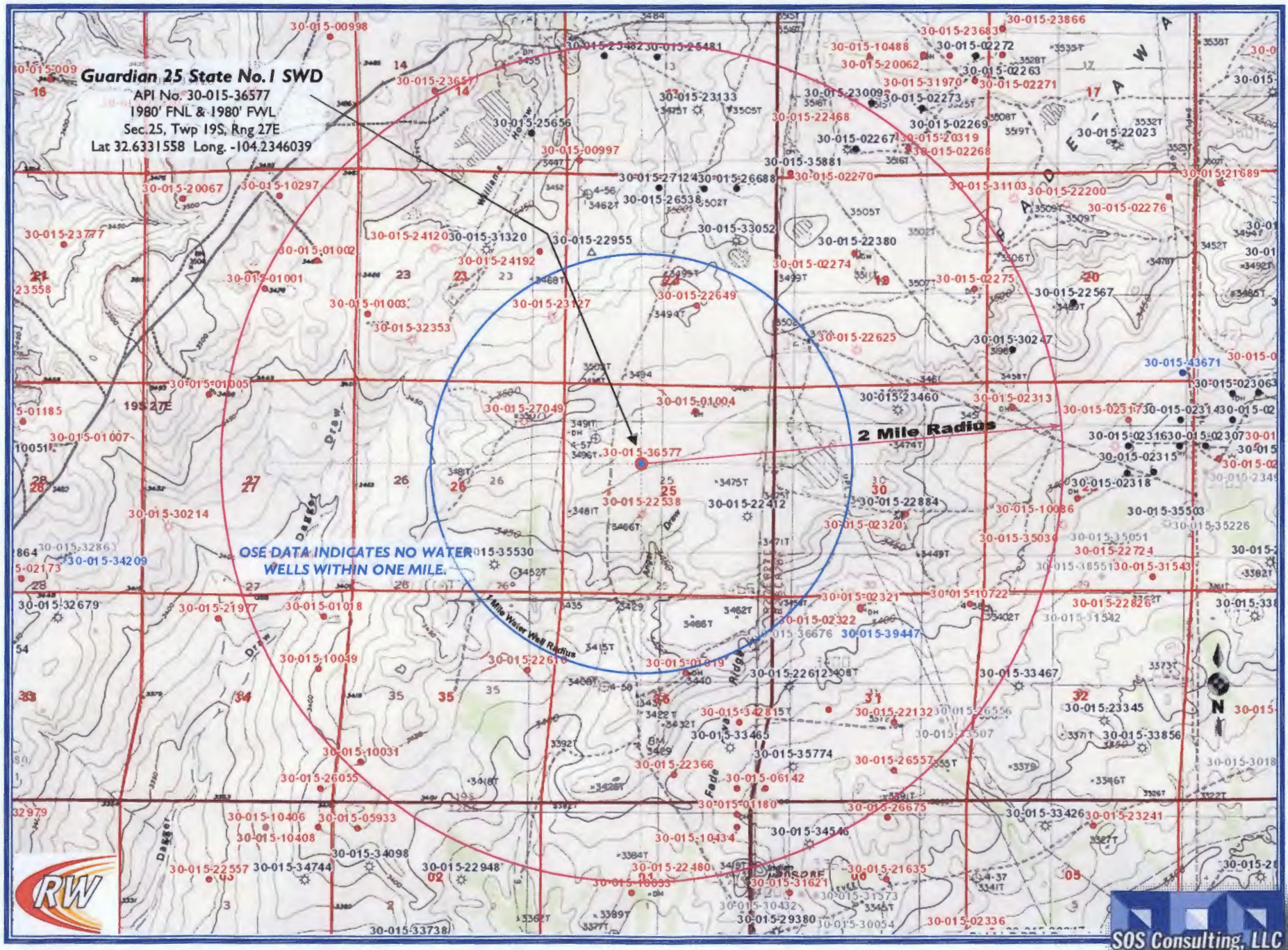
1. Two Mile AOR Map with One-Mile Fresh Water Well Radius

2. One-Half Mile AOR Map

All Above Exhibits follow this page.

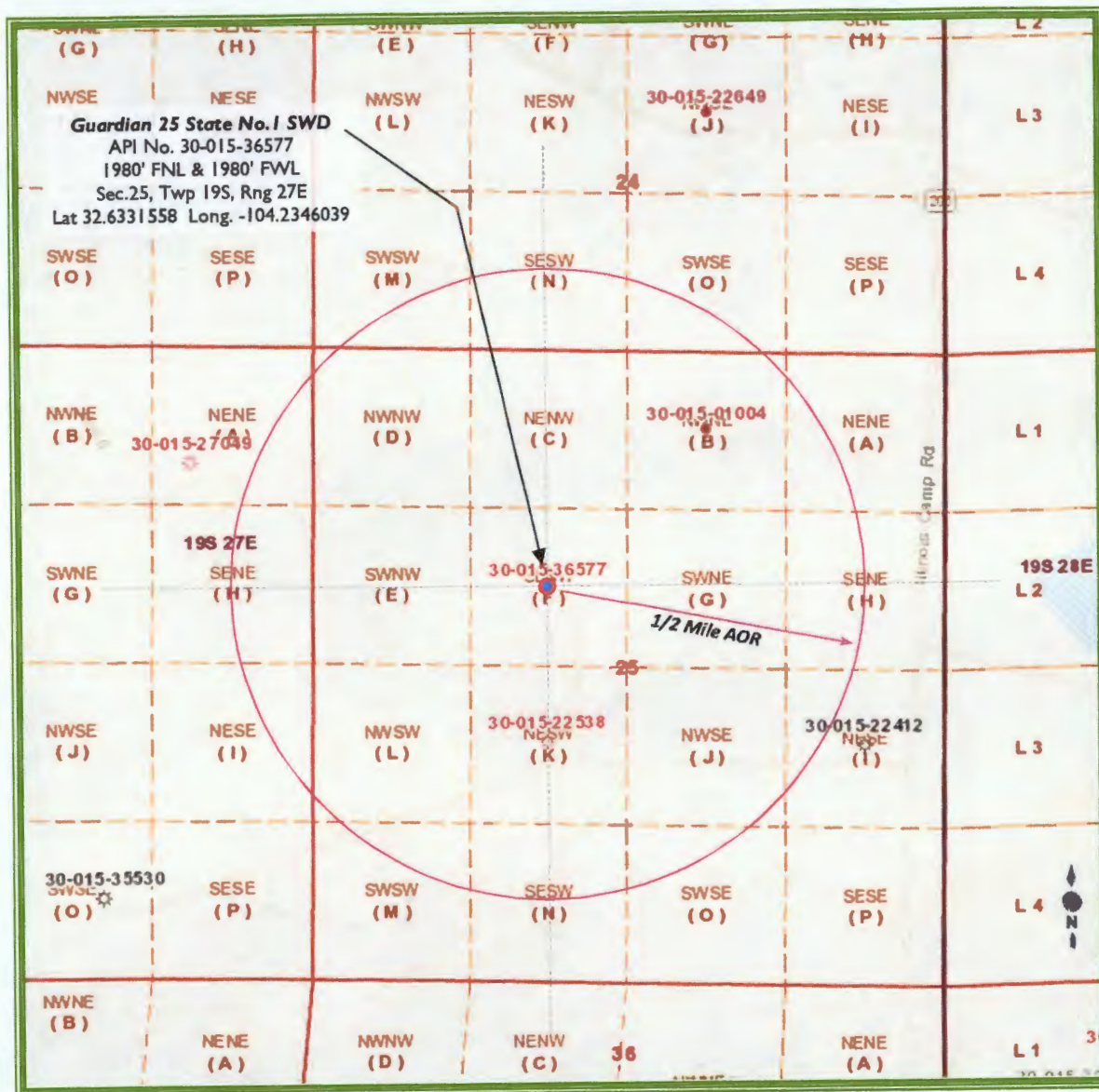
Guardian 25 State No.1 SWD - Area of Review / 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



Guardian 25 State Well No.1 SWD - Area of Review / Overview Map

(Attachment to NMOCD Form C-108 - Item V)



17.5 miles Southeast of Artesia, NM



Eddy County, New Mexico



RAY WESTALL OPERATING, INC.



C-108 - Item VI

Area of Review Well Data Tabulation

TOP OF PROPOSED INJECTION INTERVAL – 8840'

(Summary: 2 wells; Both P&A'd; 1 well penetrates.)

Listed North to South of Proposed Well (See AOR Map)

1. 30-015-01004 -- DOES NOT PENETRATE -- TD 2650'
2. 30-015-22538 - TD 11,150' P&A DIAGRAM ATTACHED
- LAKEWOOD STATE COM #001

CURRENT WELLBORE DIAGRAM

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: GUARDIAN 25 STATE COM 1	Field: ANGELL RANCH
Location: 1980' FNL & 1980' FWL; SEC 25-T19S-27E	County: EDDY State: NM
Elevation: 3501' KB; 3484' GL; 17' KB to GL	Spud Date: 10/21/08 Compl Date: 1/3/09
API#: 30-015-36577 Prepared by: Ronnie Slack	Date: 4/16/18 Rev:

WELLBORE PLUGGED & ABANDONED 4/14/18

17-1/2" Hole
13-3/8", 48#, H40, ST&C, @ 458'
Cmt'd w/600 sx, circ to surface.

12-1/4" Hole
9-5/8", 40#, J55, LT&C, @ 3,255'
Cmt'd w/1200 sx, circ to surface.

TOC @ 5760' (cbl-12/21/08)

DV Tool @ 7809'

BONE SPRING (1/9/10)
7978' - 7996'
7998' - 8020'

1/11/10: acidized 7978-8020 w/5K gals 15%

Top of 4-1/2" Liner @ 9,682'

8-3/4" Hole
7", 26#, HP110, LT&C, @ 10,080'
Cmt'd 1st Stg w/380 sx, 2nd Stg w/795 sx.
TOC @ 5760', CBL-12/21/08

MORROW (12/22/08)
10,872' - 10,882'

6-1/8" Hole
4-1/2", 11.6#, P110 HC, @ 11,148'
Cmt'd w/130 sx

Actual:
3. Cut wellhead off 3' BGL. Set above GL dry hole marker. (4/14/18)
2. Circ w/100 sx CI C to from 558' to surface. (4/13/18)
1. Perf'd @ 508'. Unable to pmp in. (4/13/18)

Actual:
3. Tagged TOC @ 1,279'. (4/13/18)
2. Spot 40 sx CI C @ 1,515'. (4/12/18)
1. Perf'd @ 1,465'. Unable to pmp in. (4/12/18)

Actual:
3. Tagged @ 3,127'. (4/12/18)
2. Spot 40 sx CI C @ 3,355'. (4/11/18)
1. Perf @ 3,305'. Unable to pump in. (4/11/18)

Actual:
2. Spot 50 sx (300') CI C @ 4,755' - 4,455'. (4/11/18)
1. Perf @ 4,705'. Unable to pump in. (4/10/18)
(spacer plug)

Actual:
6. Tagged TOC @ 7,602'. (4/10/18)
5. Spot 50 sx CI H @ 7,926'. (4/9/18)
4. Set CIBP @ 7,926'. Setting tool left in hole. (4/5/18)
3. Spot 30 sx CI H @ 7,928'. Did not tag. (4/4/18)
2. Cut tbg @ 7,928'. (4/3/18)
1. Unable to wrk pkr loose. OCD ok to plug from pkr. (4/3/18)

Arrowset packer @ 7,932' (bottom) (1/9/10)

RBP @ 8075', w/4 sx sand (1/8/10)

Blanking plug set in R Nipple @ 10838' (1/7/10)

T2 On/Off w/1.87 profile
Arrowset Packer top @ 10,821'
10' sub, 1.78 R nipple, sub, 10' sub
Mech gun rise @ 10850'

End of TCP gun assembly @ 10882'

11,048' PBTD

11,150' TD



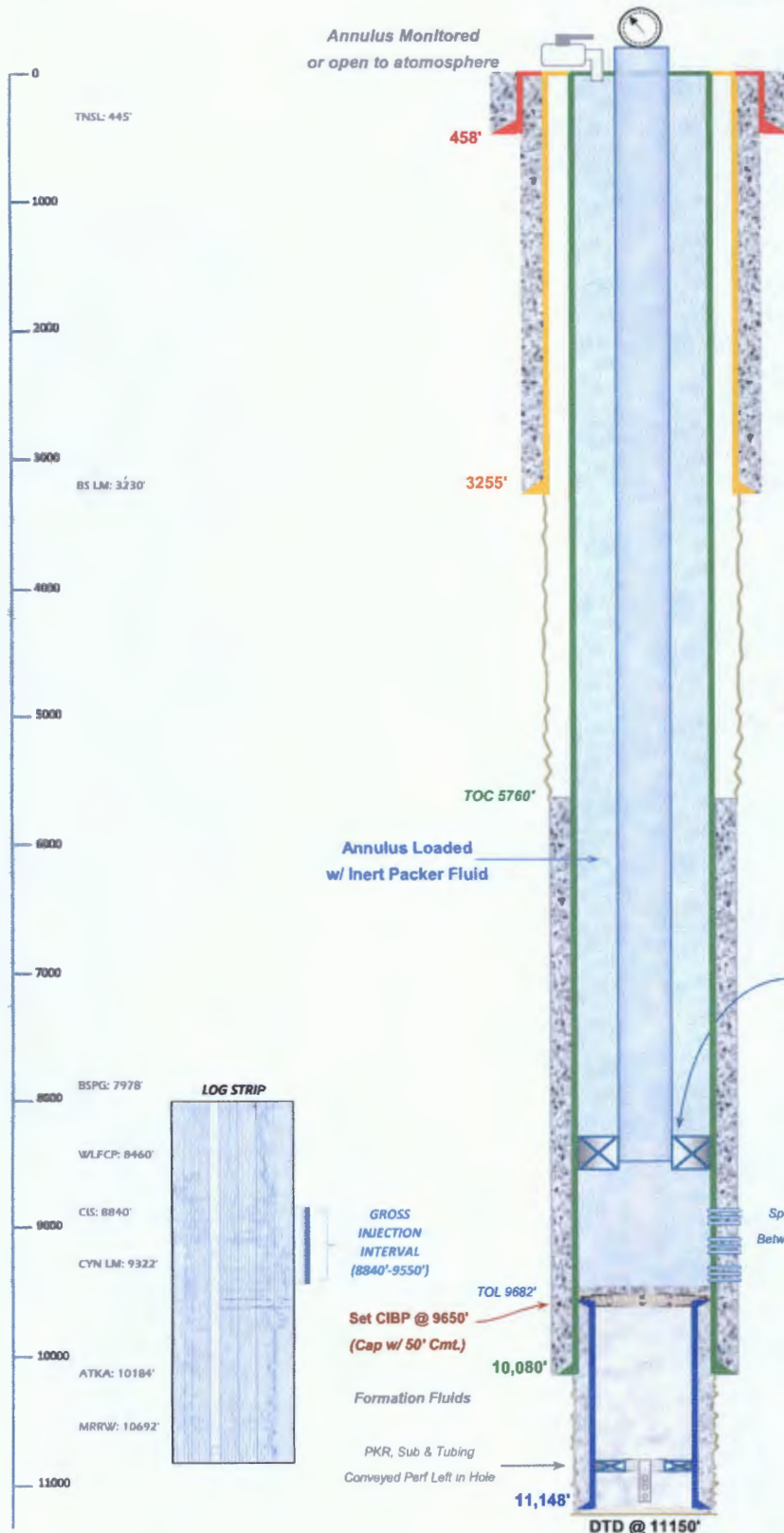
WELL SCHEMATIC - PROPOSED Guardian 25 State Well No.1 SWD

API 30-015-36577

1980' FNL & 1980' FWL, SEC. 25-T19S-R27E
EDDY COUNTY, NEW MEXICO

SWD; Cisco-Canyon (96186)

Spud Date: 10/21/2008
Config SWD Dt (Est): ~7/01/2018



Injection Pressure Regulated
and Volumes Reported
1768 psi Max. Surface (0.2 psi/ft)

Surface Casing

13.375", 48.0# H-40 STC Csg. (17.5" Hole) @ 488'
600 sx - Circulated 86 sx to Surface

Intermediate Casing

9.625", 40.0# J-55 Csg. (12.25" Hole) @ 3255'
1200 sx - Circulated 125 sx to Surface

RAY WESTALL OPERATING, INC.

Convert to SWD: D/O & C/O Existing Plugs
and Junk Equipment to 9650'.

Set CIBP @ 9650' w/ 50' Cmt Cap.

Perforate Specific Intervals TBD between 8840' and 9550'.

Run PC Tubing and PKR - Conduct Witnessed MIT.

Commence Disposal Operations.

4.5" IC Tubing (or smaller)

PKR ~8740'±

Note: PKR Set 100' Above Final Uppermost Perf Interval.

Perf Cisco/ Canyon

Specific Perf Intervals To Be Determined
Between Max Top 8840' and Max Bottom 9550'

Production Casing

7.0", 26.0# P-110 Csg. (8.75" Hole) @ 10,080'; DV @ 7809'
w/ 1st 380 sx; 2nd 795 sx - TOC @ 5760' by CBL

Liner

4.5", 9.5# P-110 Csg. (8.75" Hole) 9,682'-11,148'
w/ 130 sx - TOC @ TOL

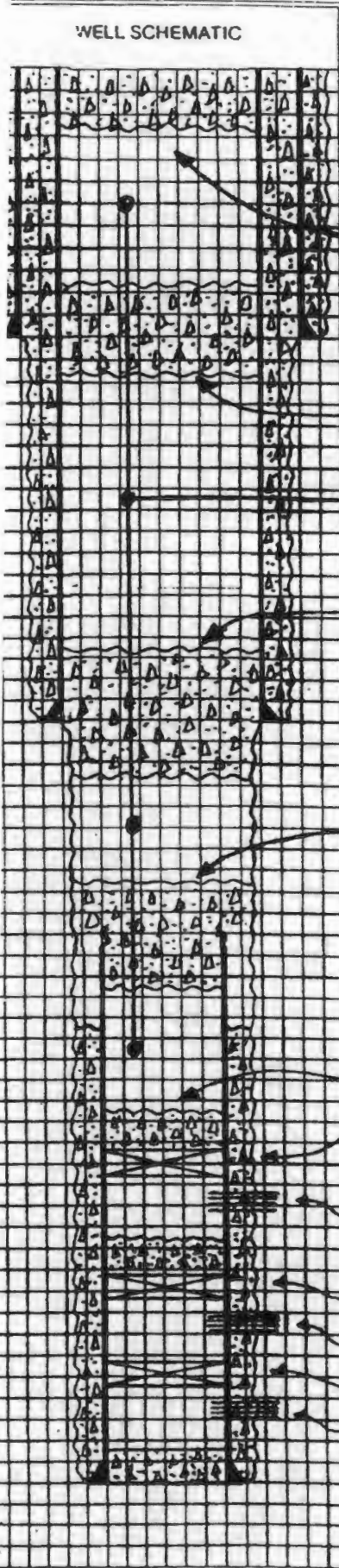
Drawn by: Ben Stone, 5/22/2018



LAKEWOOD STATE NO. 1
 1980' FSL & FWL Sec. 25, T19S, R27E
 Eddy County, New Mexico

POSED
P&A

GL-3462'
KB-3478'



CASING	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	13 3/8	48 =		ST&C	425'
CASING	8 5/8	24 & 32 #	K-55	ST&C	3000'
TUBING	4 1/2	16.6 & 15.5 #	N-80		11,150'
TUBING					

DESCRIPTION OF EQUIPMENT	DEPTH
Surface plug (10 sx)	
13 3/8" casing, 450 sx Class C cmt. to surface	425'
Cement plug 475'-375' (40 sx)	
MUD LADEN FLUID	
Cement plug 3050'-2950' (40 sx)	
8 5/8" casing, 1200 sx Halliburton Lite cmt. to surface	3,000'
100' in & out cmt. plug @ 4 1/2" csg. stub	? 8128
T.O.C. @ 8660'	
10 sx cmt. plug on top of CIBP	? 8890
CIBP @ 10,100'	
Perfs: 10,175'-10,181' (Atoka)	
Top of cement plug - 10,490'	
CIBP @ 10,500' w/ 10' cmt. on top	
Perfs: 10,583'-10,750' (Upper Morrow)	
CIBP @ 10,775'	
Perfs: 10,791'-10,948' (Lower Morrow)	
4 1/2" casing, 725 sx Class H (POTD 11,091')	11,150'

PREPARED BY

DATE

Stephen A. Rinegar

5-25-90

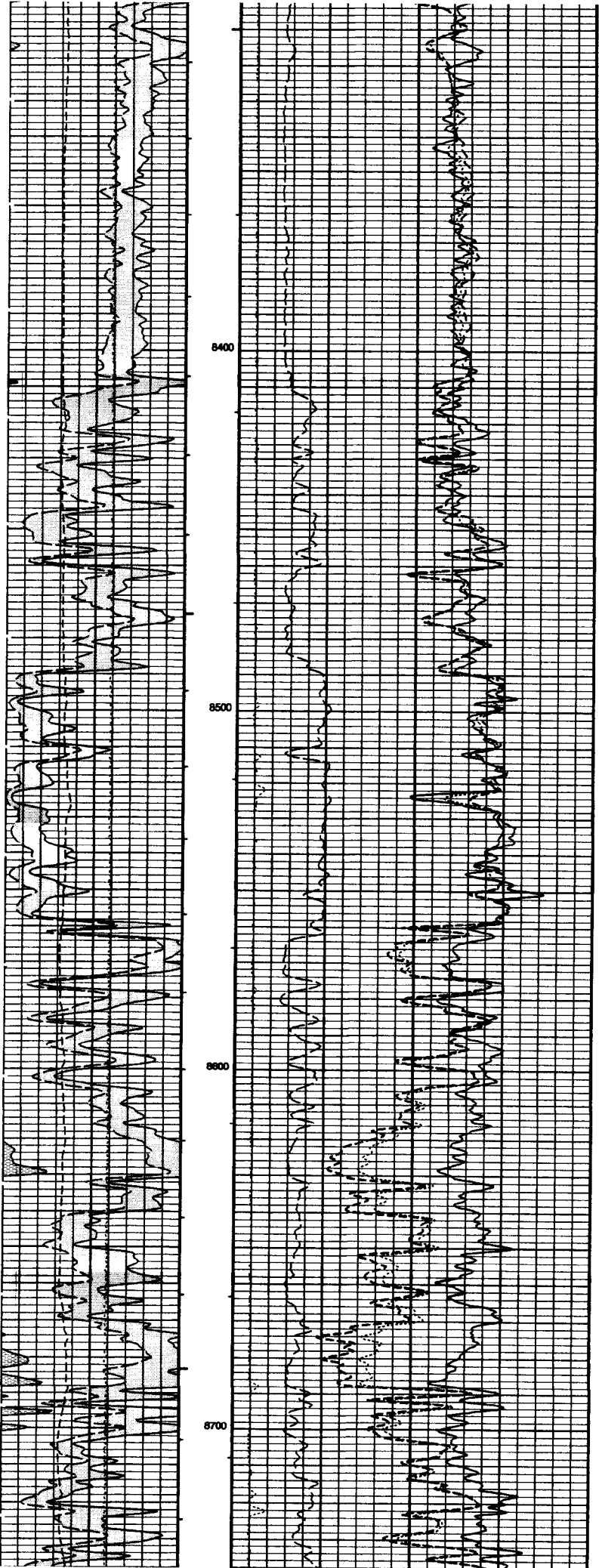
C-108 ITEM X

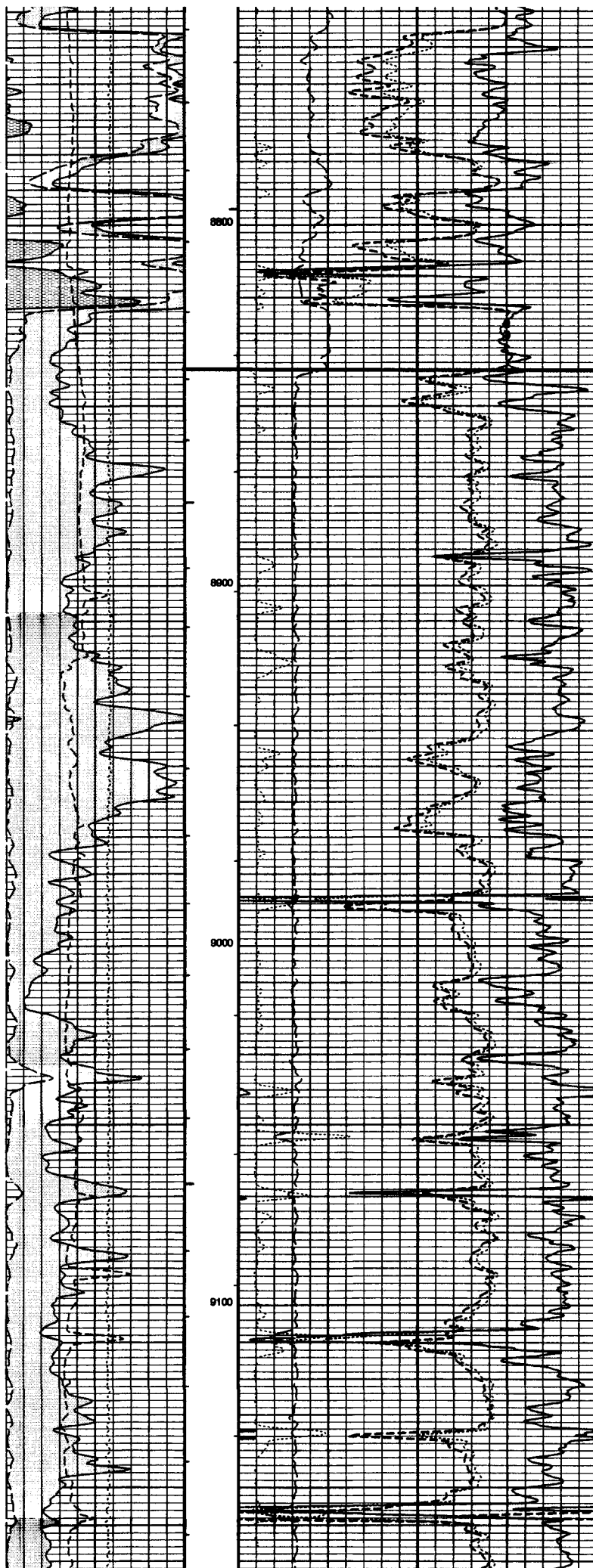
LOGS and AVAILABLE TEST DATA

A log strip from the subject well is attached
With annotations.

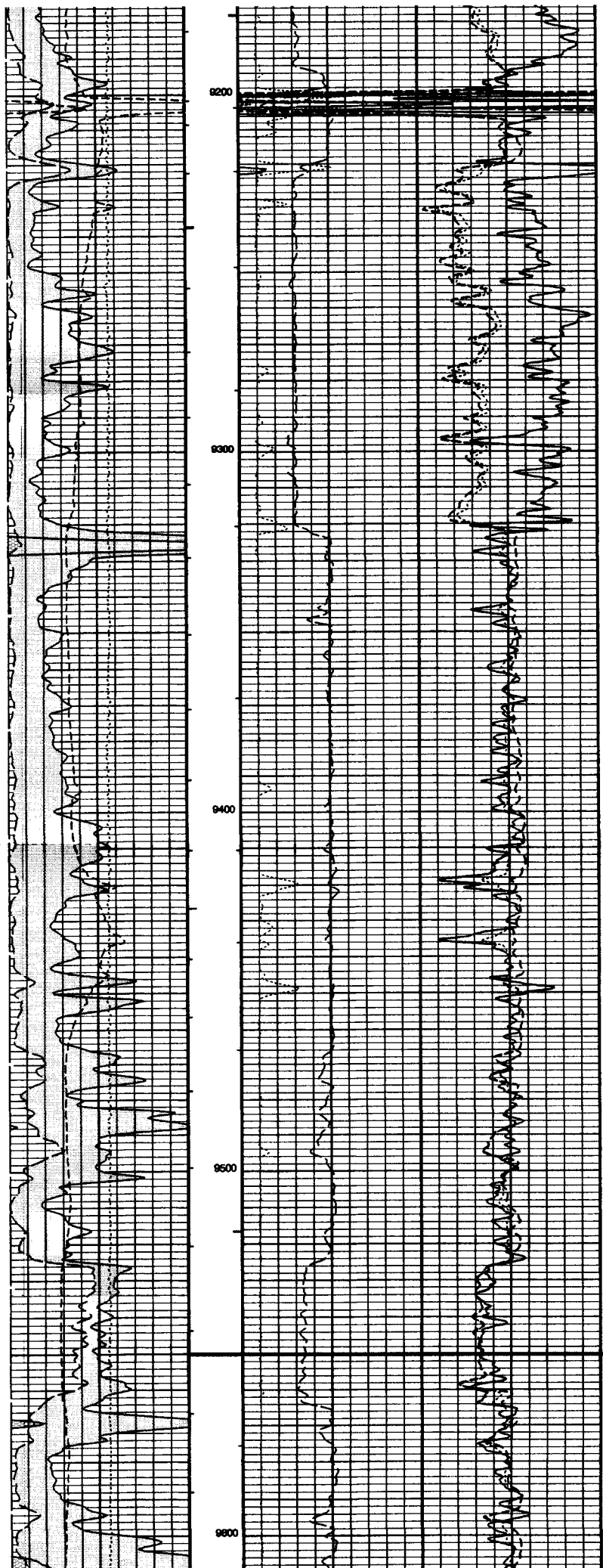
LOG STRIP FOLLOWS

COMPANY Devon Energy Corporation WELL Guardian 25 State Com 1 FIELD Angell Ranch (Morrow) County Eddy State New Mexico		County: Eddy Field: Angell Ranch (Morrow) Location: 1987 FNL & 1987 FWL Well: Guardian 25 State Com 1 Company: Devon Energy Corporation	
Schlumberger Platform Express Three Detector Litho-Density/ Compensated Neutron/HNGS		LOGGING DATA 1987 FNL & 1987 FWL Log Measured From: Kelly Borehole Drilling Measured From: Kelly Borehole API Detail No. 30-015-38677	
LOGGING DATA Run Number 15-AUG-2008 Depth 10000 ft Bottom Log Interval 10000 ft Top Log Interval 200 ft Casing Depth Size @ Depth 8.062 in @ 2000 ft Casing Bottom Depth 8.270 in Type Fluid In Hole Brine Fluid Loss 8.15 dm/gal Viscosity 10 Density 8.15 PH 10 Source Of Sample Circulation Tank FAL @ Measured Temperature 0.040 dm/in @ 66 degF FAL @ Measured Temperature 0.040 dm/in @ 66 degF FAL @ Measured Temperature 0.040 dm/in @ 66 degF Source FAL FAL @ MEET FAL @ MEET 0.019 @ 148 0.019 @ 148 Maximum Recorded Temperature 148 degF Circulation Stopped Time 15-AUG-2008 14:00 Logged On Bottom Time 15-AUG-2008 23:50 Log Number 2507 Location Recorded By Witnessed By		LOGGING DATA Run Number 15-AUG-2008 Depth 10000 ft Bottom Log Interval 10000 ft Top Log Interval 200 ft Casing Depth Size @ Depth 8.062 in @ 2000 ft Casing Bottom Depth 8.270 in Type Fluid In Hole Brine Fluid Loss 8.15 dm/gal Viscosity 10 Density 8.15 PH 10 Source Of Sample Circulation Tank FAL @ Measured Temperature 0.040 dm/in @ 66 degF FAL @ Measured Temperature 0.040 dm/in @ 66 degF FAL @ Measured Temperature 0.040 dm/in @ 66 degF Source FAL FAL @ MEET FAL @ MEET 0.019 @ 148 0.019 @ 148 Maximum Recorded Temperature 148 degF Circulation Stopped Time 15-AUG-2008 14:00 Logged On Bottom Time 15-AUG-2008 23:50 Log Number 2507 Location Recorded By Witnessed By	
		Run 1 Run 2 Run 3 Run 4	
DISCLAIMER THE USE OF AND RELIANCE UPON THIS RECORDED DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED DATA.			
OTHER SERVICES1 OS1: PEX-HRLA-HNGS-BHC OS2: OS3: OS4: OS5:		OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:	
REMARKS: RUN NUMBER 1 One 0.125" Wear Ring used on HGNS. Four 1.5" Standoffs used on HRLA.		REMARKS: RUN NUMBER 2	
Porosity computed on a Limestone Matrix (2.71 g/cc).			
Repeat Section: TD-9500			
Operators: Tony Vasquez Rig: McVay Rig #7			
SERVICE ORDER #: 15CO-309 PROGRAM VERSION: FLUID LEVEL:		SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:	
LOGGED INTERVAL START STOP		LOGGED INTERVAL START STOP	
EQUIPMENT DESCRIPTION			
RUN 1 SURFACE EQUIPMENT GBR-LVY 91 NCT-B CMB-AB NCS-VB DOWNHOLE EQUIPMENT LEH-Q 1245 LEH-Q 1245 AH-169 DTC-H 8131 CTM TeStatus		RUN 2	
89.2 87.0 85.8		84.7	

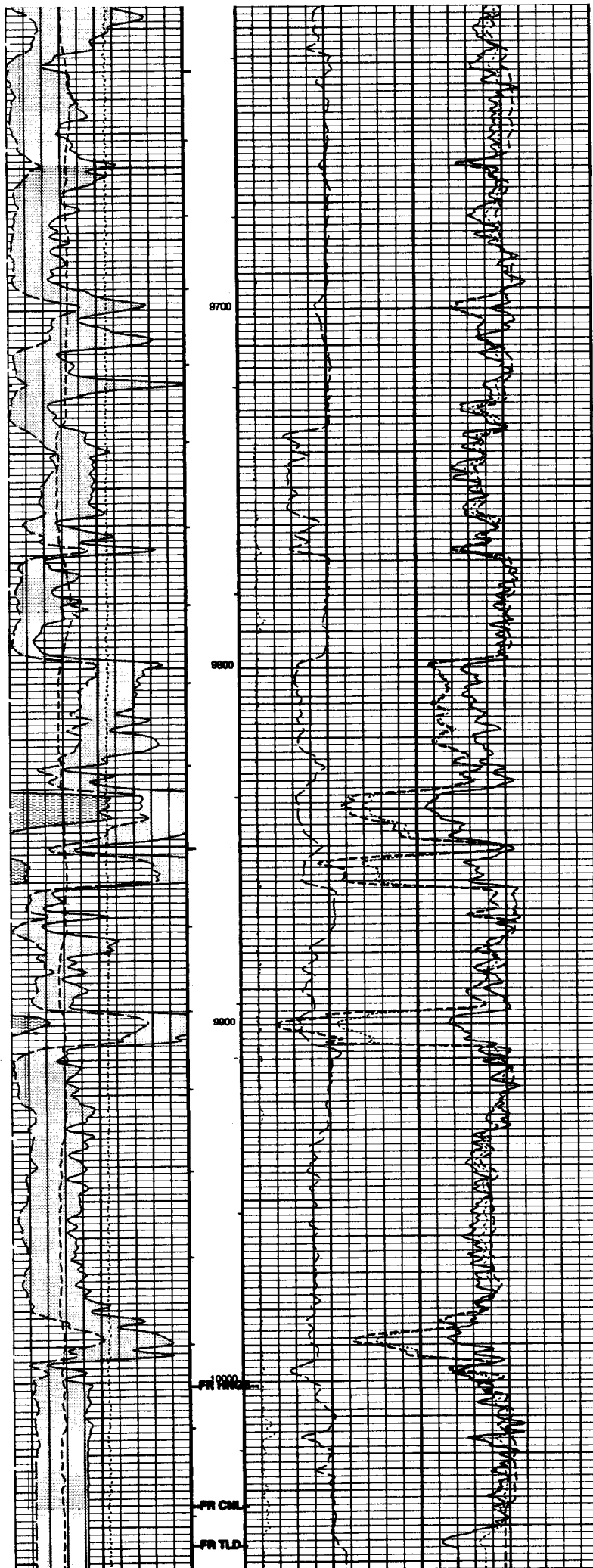




TOP OF
PROPOSED
INJECTION
INTERVAL
8840'



BOTTOM OF
PROPOSED
INJECTION
INTERVAL
9550'



C-108 - Item VIII

Geological Data

The Cisco/ Canyon formations (Upper Penn) consists of some sandstone and gray micritic (fine grained) fossiliferous limestone with vugular porosity; it's similar to the overlying Wolfcamp lithology. The combined formations in this area usually range from 900 to 1200 feet thick.

The zone offers decent porosity in the proposed injection interval located from 8840' to 9550' with very good porosity interspersed throughout the overall interval.

The Cisco is overlain by the Wolfcamp then the Abo, Yeso, Glorieta then upwards to San Andres and Grayburg above. The Canyon is underlain by Strawn and then the Atoka.

Fresh water in the area is generally available from the Santa Rosa formation. State Engineer's records show water wells in 19S-27E with an average depth to water of 34 feet.

There are no water wells within one mile of the proposed SWD.

C-108 ITEM XI – WATER WELLS IN AOR

There are no fresh water wells within one mile of the proposed SWD.



New Mexico Office of the State Engineer **Active & Inactive Points of Diversion** (with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 24, 25, 26 Township: 19S Range: 27E

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.

5/16/18 7:13 AM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

C-108 ITEM XI – WATER WELLS IN AOR

Depth to Ground Water



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 (quarters are 1=NW 2=NE 3=SW 4=SE)
closed) (quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

POD Number	POD Sub- Code basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 02385	ED		1	3	27	19S	27E		568171	3610454*	120		
RA 05475	ED		3	1	16	19S	27E		566555	3614078*	140	18	122
RA 06123	CH		4	2	4	15	19S	27E	569486	3613610*	300		
RA 06705	ED		4	2	4	30	19S	27E	564608	3610358*	180		
RA 07672	ED		1	1	3	08	19S	27E	564836	3615376*	138	50	88
RA 08929	ED		3	3	1	13	19S	27E	571282	3613992*	185		

Average Depth to Water: **34 feet**

Minimum Depth: **18 feet**

Maximum Depth: **50 feet**

Record Count: 6

PLSS Search:

Township: 19S Range: 27E

*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.

C-108 ITEM VII – PROPOSED OPERATION

The Guardian 25 State No.1 SWD will be operated as a commercial disposal service to area operators to facilitate in disposal of produced water from typical producing formations in the area. (Samples are included in this application from Yates, Queen and Delaware formation waters - chlorides and TDS are relative compatible with Cisco waters.)

The system will be closed utilizing a tank battery facility located on the well site and possible future delivery via pipeline.

Injection pressure will be 1768 psi with rates limited only by that pressure but are not expected to be greater than approximately 10,000 bwpd. In the future, Ray Westall Operating, Inc. may opt to conduct a step rate test if it is determined that greater rates may be required. This would be submitted to OCD as a request to increase the injection pressure.

Routine maintenance will be ongoing and any releases will be reported within 24 hours to OCD on form C-141 pursuant to various portions of 19.15.30 NMAC.

The facility will not be manned but will be available to Ray Westall's customers 24/7. The facility will be available for inspections at any time deemed necessary by OCD.

C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Tansil-Yates-Seven Rivers
Grayburg-San Andres
Yeso

Item VII.5 – Water Analysis of Disposal Zone Water

Cisco

Water Analyses follow this page.

C-108 Item VII.5 - Produced Water Data
Ray Westall Operating, Inc. - Guardian 25 State No.1 SWD

SOURCE ZONE

ARTESIA GROUP - TNSL-YTS-7RVRS

API No	3001502891	Lab ID	
		Sample ID	5128
Well Name	CAVE POOL UNIT 030	Sample No	
Location	ULSTR 04 17 S 29 E 990 S 2310 E	Lat / Long	32.85900 -104.07829
		County	Eddy
Operator (when sampled)			
	Field GRAYBURG JACKSON	Unit	O
Sample Date		Analysis Date	
	Sample Source TANK	Depth (if known)	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	227185	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	140700	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	47
iron_mgL		sulfate_mgL	900
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data
Ray Westall Operating, Inc. - Guardian 25 State No.1 SWD

SOURCE ZONE

GRAYBURG-SAN ANDRES

API No	3001502873	Lab ID	
Well Name	GULF STATE 002	Sample ID	5366
		Sample No	
Location	ULSTR 03 17 S 29 E	Lat / Long	32.86987 -104.06746
	330 N 990 W	County	Eddy
Operator (when sampled)			
	Field SQUARE LAKE	Unit	4
Sample Date		Analysis Date	
	Sample Source WELLHEAD	Depth (if known)	
	Water Typ		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	109000	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	63070	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	339
iron_mgL		sulfate_mgL	3538
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data
Ray Westall Operating, Inc. - Guardian 25 State No.1 SWD

SOURCE ZONE

YESO

API No	3001530307	Lab ID	
Well Name	SCHLEY FEDERAL 008	Sample ID	5901
		Sample No	
Location	ULSTR 29 17 S 29 E 1580 N 1650 W	Lat / Long	32.80836 -104.09972
		County	Eddy
Operator (when sampled)	MACK ENERGY		
	Field EMPIRE EAST	Unit	F
Sample Date	8/7/2000	Analysis Date	8/14/2000
	Sample Source	Depth (if known)	
	Water Typ		
ph	7	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.135	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	208172	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	140286	conductivity_temp_F	
sodium_mgL	87396.1	carbonate_mgL	0
calcium_mgL	3103.09	bicarbonate_mgL	611.765
iron_mgL	3.405	sulfate_mgL	3456.07
barium_mgL	0.1135	hydroxide_mgL	
magnesium_mgL	817.2	h2s_mgL	79.45
potassium_mgL	545.935	co2_mgL	
strontium_mgL	55.615	o2_mgL	
manganese_mgL		anionremarks	
Remarks			

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data
Ray Westall Operating, Inc. - Guardian 25 State No.1 SWD

DISPOSAL ZONE

CIS

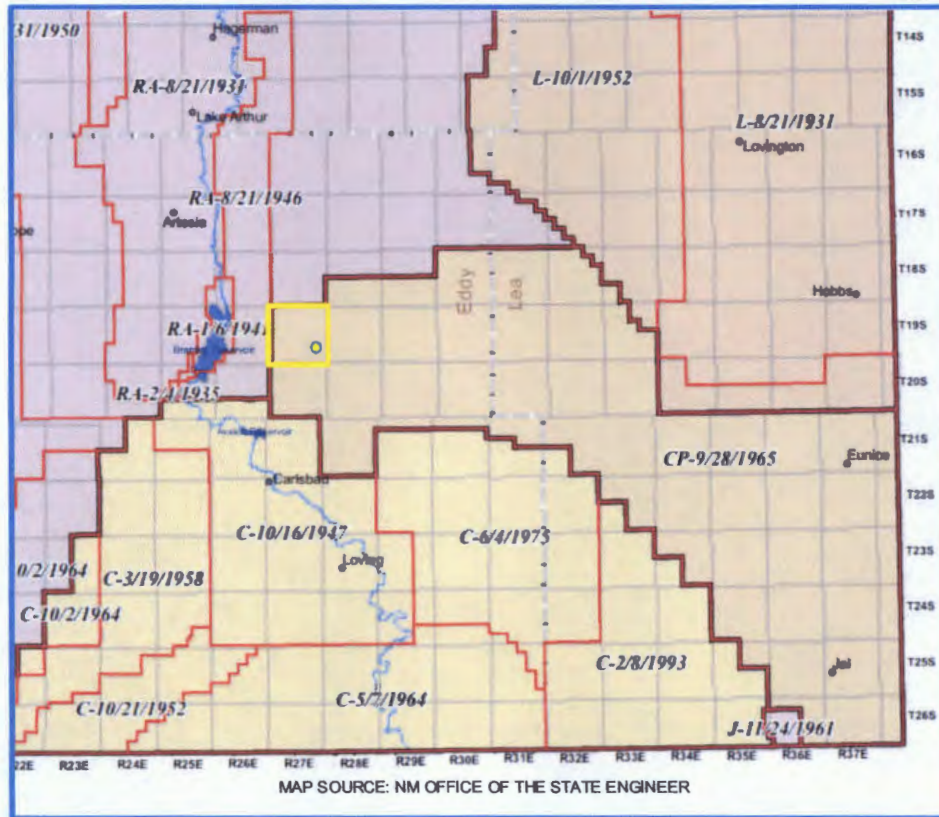
										Lab ID	
API No.	3001500129									Sample ID	5353
Well Name	SPRINGS SWD 001									Sample No	
Location	ULSTR	04	21	S	25	E	Lat / Long	32.52054	-104.39423		
	660		N	830	E		County	Eddy			
Operator (when sampled)											
	Field	SEVEN RIVERS HILLS							Unit	1	
Sample Date							Analysis Date				
	Sample Source	SWAB					Depth (if known)				
	Water Type										
ph						alkalinity_as_caco3_mgL					
ph_temp_F						hardness_as_caco3_mgL					
specificgravity						hardness_mgL					
specificgravity_temp_F						resistivity_ohm_cm					
tds_mgL	31485					resistivity_ohm_cm_temp_					
tds_mgL_180C						conductivity					
chloride_mgL	17000					conductivity_temp_F					
sodium_mgL						carbonate_mgL					
calcium_mgL						bicarbonate_mgL	635				
iron_mgL						sulfate_mgL	2500				
barium_mgL						hydroxide_mgL					
magnesium_mgL						h2s_mgL					
potassium_mgL						co2_mgL					
strontium_mgL						o2_mgL					
manganese_mgL						anionremarks					
Remarks											

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Capitan Basin, 1 township east of the Roswell Basin.

The Roswell Artesian Basin consists of an eastward-dipping carbonate aquifer overlain by a leaky evaporitic confining unit, overlain in turn by an unconfined alluvial aquifer. The carbonate aquifer is artesian to the east but under water-table conditions in the western outcrop area.

Water-producing zones in the carbonate aquifer rise stratigraphically from north to south and from west to east. Some wells may penetrate as many as five water-producing zones. Secondary porosity is developed in vuggy and cavernous limestone, solution-collapse breccia, and solution-enlarged fractures. Recharge occurs by direct infiltration of precipitation and by runoff from intermittent losing streams flowing eastward across a broad area east of the Sacramento Mountains. (USGS)

State Engineer's records show water wells in 19S-27E with an average depth to water at 34 feet.

There are NO water wells located within one mile of the proposed SWD.

C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.


Ben Stone, Partner
SOS Consulting, LLC

Project: Ray Westall Operating, Inc.
Guardian 25 State No.1 SWD
Reviewed 5/22/2018

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF AFFECTED PARTIES

Exhibits for Section

Affected Parties Map

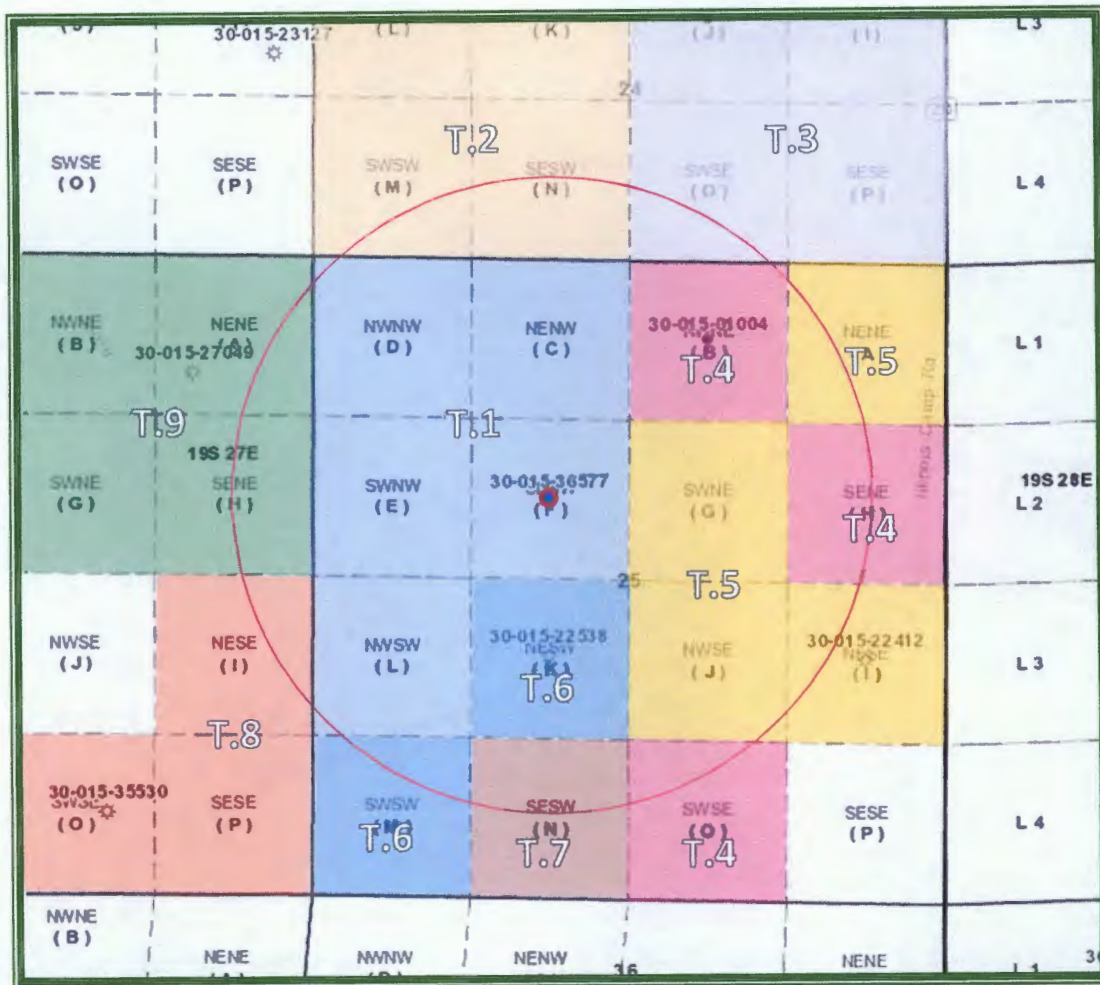
List of Affected Parties

Notification Letter to Affected Parties

Proof of Certified Mailing

Affidavit Published Legal Notice

Guardian 25 State Well No.1 SWD – Affected Parties Plat (Attachment to NMOCD Form C-108, Application for Authority to Inject.)



RAY WESTALL OPERATING, INC.

LEGEND

-- ALL STATE LEASES --

T.1 – L0-6289-0001 – Devon Energy Prod. Co.

T.2 – LG-2676-0002 – EOG Resources, Inc.

T.3 – V0-1652-0000 – Harvard Petroleum

T.4 – L0-6289-0005 – Marathon Oil Permian, LLC

T.5 – L0-0620-0002 – Falconer Resources

T.6 – VB-2501-0001 – Devon Energy Prod. Co.

T.7 – L0-0620-0004 – Fasken Land & Minerals, LTD

T.8 – LG-2838-0003 – Mewbourne Oil Company

T.9 – X0-0647-0405 – Khody Land & Minerals Co.

T.10 – X0-0648-0150 – Marathon Oil Company

C-108 ITEM XIII – PROOF OF NOTIFICATION AFFECTED PARTIES LIST

**SOS Consulting is providing electronic delivery of C-108 applications.
ALL APPLICABLE AFFECTED PARTIES ARE PROVIDED A LINK IN THE NOTICE LETTER
TO A SECURE SOS/ CITRIX SHAREFILE® SITE TO VIEW AND DOWNLOAD
A FULL COPY OF THE SUBJECT C-108 APPLICATION IN PDF FORMAT.**

SURFACE & MINERAL OWNER

- 1 STATE OF NEW MEXICO
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504
Certified: 7017 2400 0000 5297 5096

OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)

State Leases L0-6289-0001; VB-2501-0001 (T.1 and T.6 on Affected Parties Map)
Lessee & Operator

- 2 DEVON ENERGY PRODUCTION CO., LP
333 W. Sheridan Avenue
OKC, OK 73102-5010
Certified: 7017 2400 0000 5297 5102

State Federal Lease LG-2676-0002 (T.2 on Affected Parties Map)
Lessee

- 3 EOG RESOURCES, INC.
5509 Champions Drive
Midland, TX 79706
Certified: 7017 2400 0000 5297 5119

State Lease V0-1652-0000 (T.3 on Affected Parties Map)
Lessee

- 4 HARVARD PETROLEUM
200 E 2nd Street
Roswell, NM 88201
Certified: 7017 2400 0000 5297 5126

State Lease L0-6289-0005; X0-0648-0150 (T.4 and T.10 on Affected Parties Map)
Lessee & Operator

- 5 MARATHON OIL COMPANY
P.O. Box 22164
Tulsa, OK 74121-2164
Certified: 7017 2400 0000 5297 5133

State Lease L0-0620-0002 (T.5 on Affected Parties Map)
Lessee & Operator

- 6 FAULCONER RESOURCES CORP.
P.O. Box 7995
Tyler, TX 75701-7995
Certified: 7017 2400 0000 5297 5171

C-108 ITEM XIII – PROOF OF NOTIFICATION
AFFECTED PARTIES LIST (cont.)

State Lease L0-0620-0004 (T.7 on Affected Parties Map)

Lessee

- 7 FASKEN LAND & MINERALS, LTD
6101 Holiday Hill Road
Midland, TX 79707
Certified: 7017 2400 0000 5297 5164

State Lease LG-2838-0003 (T.8 on Affected Parties Map)

Lessee and Operator

- 8 MEWBOURNE OIL COMPANY
P.O. Box 7698
Tyler, TX 75711
Certified: 7017 2400 0000 5297 5157

State Lease X0-0647-0405 (T.9 on Affected Parties Map)

Lessee

- 9 KHODY LAND & MINERALS CO.
3500 One Williams Center
Tulsa, OK 74172
Certified: 7017 2400 0000 5297 5140

OFFSET MINERALS OWNERS (Notified via USPS Certified Mail)

STATE OF NEW MEXICO
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)
1220 S. St. Francis Dr.
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)
811 S. First St.
Artesia, NM 88210

STATE OF NEW MEXICO (FedEx'ed copy)
Oil, Gas and Minerals Division
310 Old Santa Fe Trail
Santa Fe, NM 87504



May 22, 2018

NOTIFICATION TO INTERESTED PARTIES
via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

Ray Westall Operating, Inc., Loco Hills, New Mexico, has made application to the New Mexico Oil Conservation Division to reenter and complete for salt water disposal the Guardian 25 State No.1. The proposed SWD will be for commercial produced water disposal from area operators. As indicated in the notice below, the well is located in Section 25, Township 19 South, Range 27 East in Eddy County, New Mexico.

The published notice states that the interval will be from 8840 feet to 9550 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on May 17, 2018.

LEGAL NOTICE

Ray Westall, Inc., P.O. Box 4, Loco Hills, NM 88255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in the Guardian 25 State Well No.1. The well, API No.30-015-36577 is located 1980' FNL & 1980' FWL in Section 25, Township 19 South, Range 27 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Cisco/ Canyon formation through selected perforated intervals between a maximum applied for top of 8840 feet to maximum depth of 9550 feet and based on further log analysis. Maximum injection pressure will be 1768 psi with a maximum rate limited only by such pressure.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

You have been identified as a party who may be interested as an offset lessee or operator.

You are entitled to a full copy of the application. A full copy in PDF format is posted on the SOS Consulting **ShareFile** site and is available for immediate download.

Use the URL link <https://sosconsulting.sharefile.com/d-s9fedb67846b417e8>

(Please Note: The ShareFile service is powered by Citrix Systems and is completely secure.*)

The link to this file will be active for 30 days from the date of this letter. Your company can access and download the file a maximum of five (5) times. (Copies may be downloaded and shared as needed among your company.)

If preferred, you may call SOS Consulting, LLC at 903-488-9850, or email info@sosconsulting.us, and the same PDF file copy will be expedited to you via email.

Please use the subject "**Guardian 25 SWD May 2018 PDF Copy Request**".

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC
Agent for Ray Westall Operating, Inc.

Cc: Application File

SOS Consulting is committed to providing superior quality work using technology to assist clients and interested parties in obtaining the documentation required. SOS will continue to utilize methods for reducing papers copies and are less energy and resource intensive.

We hope you'll partner with us and appreciate these efforts.

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This will not be used by anyone except keeping track of the file downloads.

You will not be solicited by SOS or anyone else. Data is stored on Citrix Systems servers only.

CITRIX

ShareFile

C-108 - Item XIV

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<input type="checkbox"/> Return Receipt (electronic) \$ 2.75	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$ 6.70	
Sent To Street and City, State PS Form	
STATE OF NEW MEXICO Oil, Gas and Minerals Division 310 Old Santa Fe Trail Santa Fe, NM 87504 ctions	

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<input type="checkbox"/> Return Receipt (electronic) \$	
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<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$ 6.70	
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DEVON ENERGY PROD. CO., LP 333 W. Sheridan Avenue OKC, OK 73102-5010 ctions	

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Total Postage and Fees \$ 6.70	
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HARVARD PETROLEUM 200 E. 2nd Street Roswell, NM 88201 ctions	

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts – cont.)

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☐ Adult Signature Restricted Delivery \$

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 City, State

MARATHON OIL COMPANY
 P.O. Box 22164
 Tulsa, OK 74121-2164

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Total Postage and Fees *6.70*

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FASKEN LAND & MINERALS, LTD
 6101 Holiday Hill Road
 Midland, TX 79707

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KHODY LAND & MINERALS CO.
 3500 One Williams Center
 Tulsa, OK 74172

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Total Postage and Fees *6.70*

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 City, State

FAULCONER RESOURCES CORP.
 P.O. Box 7995
 Tyler, TX 75701-7995

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Total Postage and Fees *6.70*

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MEWBOURNE OIL COMPANY
 P.O. Box 7698
 Tyler, TX 75711

PS Form
Domestic Mail Only

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Affidavit of Publication

No. 24676

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn says that she is the

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

Legal Ad

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

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

First Publication May 17, 2018

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

17th day of May 2018



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires:

5/12/2019

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Ray Westall, Inc., P.O. Box 4, Loco Hills, NM 88255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to permit for salt water disposal in the Guardian 25 State Well No.1. The well, API No.30-015-36577 is located 1980' FNL & 1980' FWL in Section 25, Township 19 South, Range 27 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Cisco/ Canyon formation through selected perforated intervals between a maximum applied for top of 8840 feet to maximum depth of 9550 feet and based on further log analysis. Maximum injection pressure will be 1768 psi with a maximum rate limited only by such pressure.

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Published in the Artesia Daily Press, Artesia, N.M., May 17, 2018 Legal No. 24676.

ORIGIN ID:TYRA (903) 488-9850
BENJAMIN STONE
SOS CONSULTING, LLC
1950 CR 2331
COMO, TX 75431
UNITED STATES US

SHIP DATE: 23MAY18
ACTWGT: 0.50 LB
CAD: 100120607INET3980

BILL SENDER

TO **TERRY WARNELL**
NM STATE LAND OFFICE - OIL & GAS
310 OLD SANTA FE TRL

SANTA FE NM 87501
(505) 827-5791 REF: RMO GUARDIAN 25 STATE SWD
INV. DEPT.
PO.

552.12782BIDCA5

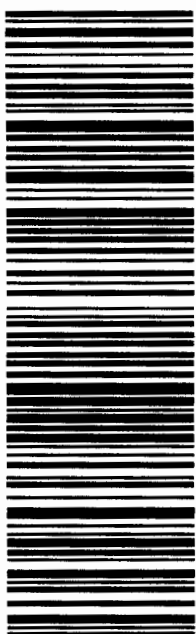


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NM-US ABQ



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McMillan, Michael, EMNRD

From: ben@sosconsulting.us
Sent: Tuesday, June 12, 2018 3:55 PM
To: McMillan, Michael, EMNRD
Subject: FedEx delivery info...
Attachments: FedEx_Shipment_Detail_Rcvd-June62018.xlsx

Hey Mike, sorry, it was the 24th... I got it ready on the 22nd but didn't take it to FedEx until the 23rd! The one is the last row, #10...

Anyway, here it is.

Thanks,
Ben



Visit us on the web at www.sosconsulting.us!

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Shipper Name	OPCO	Shipment Date	Shipment Delivery Date	Shipment Tracking Number	Recipient Name	Recipient Company Name	Recipient City	Reference Notes Line 1	Package Type	Shipment Delivery Time
Benjamin Stone	Express	05/23/2018	05/25/2018	772303348502	Mike Bratcher	NM Oil Conservation Division 811 S 1ST ST	ARTESIA NM 88210	RWO Guardian 25 State SW	Fedex Letter	10:07
Benjamin Stone	Express	05/23/2018	05/25/2018	772303368857	Terry Wamell	NM State Land Office - Oil & G 310 OLD SANTA FE TRL	SANTA FE NM 87501	RWO Guardian 25 State SW	Fedex Letter	09:47
Benjamin Stone	Express	05/23/2018	05/24/2018	772303330393	Philip Goetze	NM Oil Conservation Division 1220 S SAINT FRANCIS DR	SANTA FE NM 87505	RWO Guardian 25 State SW	Fedex Pak	09:42

Submit 1 Copy To Appropriate District

Office

District I - (575) 393-6161

1625 N. French Dr., Hobbs, NM 88240

District II - (575) 748-1283

811 S. First St., Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Rd., Aztec, NM 87410

District IV - (505) 476-3460

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

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

Revised July 18, 2013

NM OIL CONSERVATION

APR 18 2018

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-015-36577

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

GUARDIAN 25 STATE COM

8. Well Number

1

9. OGRID Number

6137

10. Pool name or Wildcat

ARTESIA;BONE SPRING

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

Devon Energy Production Company, LP

3. Address of Operator

333 W. Sheridan Avenue, Oklahoma City, OK 73102

4. Well Location

Unit Letter F : 1980 feet from the North line and 1980 feet from the West line

Section 25 Township 19S Range 27E NMPM Eddy County, NM

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3501' KB; 3484' GL; 17' KB to GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

DOWNHOLE COMMINGLE ☐

CLOSED-LOOP SYSTEM ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ P AND A ☒

CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 4/3/18--MIRU P&A Unit. Unable to work packer loose from 7,932'. Recv'd OCD approval to start plugging from packer.
- 4/3-4/4/18--Cut 2-3/8" prod tubing @ 7,928'. POOH w/ prod tubing. Spot 30 sx Cl H @ 7,928'. Did not tag any cement.
- 4/5-4/10/18--Set CIBP @ 7,926'. Setting tool left in hole. Spot 50 sx Cl H @ 7,926'. Tagged TOC @ 7,602'.
- 4/10/18-4/11/18--Perf'd @ 4,705'. Unable to pump in. Spot 50 sx Cl C @ 4,755'-4,455'.
- 4/11-4/12/18--Perf'd @ 3,305'. Unable to pump in. Spot 40 sx Cl C @ 3,355'. Tagged TOC @ 3,127'.
- 4/12-4/13/18--Perf'd @ 1,465'. Unable to pump in. Spot 40 sx Cl C @ 1,515'. Tagged TOC @ 1,279'.
- 4/13/18--Perf'd @ 508'. Unable to pump in. Circulated 100 sx Cl C from 558' to surface.
- 4/14/18--Cut wellhead off 3' BGL. Cement to surface. Set above GL dry hole marker. Wellbore plugged & abandoned.

Spud Date:

Rig Release Date:

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

SIGNATURE Ronnie Slack TITLE Production Technologist

DATE 4-16-18

Type or print name Ronnie Slack E-mail address: Ronnie.Slack@dvn.com PHONE: 405-552-4615

For State Use Only

APPROVED BY: [Signature] TITLE Staff Mgr

DATE 4-18-18

Conditions of Approval (if any):

McMillan, Michael, EMNRD

From: ben@sosconsulting.us
Sent: Tuesday, June 19, 2018 8:49 AM
To: McMillan, Michael, EMNRD; Goetze, Phillip, EMNRD; Jones, William V, EMNRD
Cc: Bratcher, Mike, EMNRD; Cordero, Gilbert, EMNRD
Subject: RE: (Ray Westall Operating Guardian 25 State well No. 1

Thanks Mike.

From: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Sent: Tuesday, June 19, 2018 9:46 AM
To: Ben Stone <ben@sosconsulting.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Cordero, Gilbert, EMNRD <Gilbert.Cordero@state.nm.us>
Subject: (Ray Westall Operating Guardian 25 State well No. 1

Ben:
The OCD will require Ray Westall to run a CBL after cleaning the well out to approximately 9650 feet prior to running the tubing. Further, Ray Westall will be required to meet with the Artesia District Office to go over the results of the CBL.

Thanks

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

**FORM C-108 Technical Review Summary** [Prepared by reviewer and included with application; V16.2]DATE RECORD: First Rec: 5/23/2018 Admin Complete: 6/12/2018 or Suspended: _____ Add. Request/Reply: _____

ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: _____

Well No. 1 Well Name(s): Guardian 25 stateAPI: 30-0 15-36577 Spud Date: 10/20/2008 New or Old (EPA): N (UIC Class II Primacy 03/07/1982)Footages 1580 FNL 1580 FNL Lot _____ or Unit F Sec 25 Tsp 19S Rge 27E County ddyGeneral Location: 2.25 miles E/Antesia Pool: _____ Pool No.: _____BLM 100K Map: Antesia Operator: Ray Westall operating Fnc OGRID: 119305 Contact: Bew

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ IS 5.9 OK? _____ Date: _____

WELL FILE REVIEWED ☐ Current Status: P&NWELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☒ After Conv. ☒ Logs in Imaging: _____

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement St or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface		<u>17 1/2" / 13 3/8"</u>	<u>458'</u>	<u>600</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Interm/Prod		<u>12 1/4" / 9 5/8"</u>	<u>3255'</u>	<u>1200</u>	<u>Surface/Visual</u>
Planned ___ or Existing ___ Interm/Prod		<u>8 3/4" / 7"</u>	<u>10080</u>	<u>1175</u>	<u>5760/C-B-L</u>
Planned ___ or Existing ___ Prod/Liner		<u>6 1/8" / 4 1/2"</u>	<u>11148</u>	<u>130</u>	<u>9682</u>
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PERF		<u>8840/9550</u>			

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		<u>WC</u>	<u>8460</u>
Confining Unit: Litho. Struc. Por.		<u>CS</u>	<u>8840</u>
Proposed Inj Interval TOP:		<u>CW</u>	<u>9322</u>
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD <u>11148</u>	PBTD <u>9682</u>
NEW TD _____	NEW PBTD <u>9682</u>
NEW Open Hole <input type="radio"/> or NEW Perfs <input checked="" type="radio"/>	
Tubing Size <u>4 1/2"</u> in. Inter Coated? _____	
Proposed Packer Depth <u>8740</u> ft	
Min. Packer Depth <u>8840</u> (100-ft limit)	
Proposed Max. Surface Press. <u>1768</u> psi	
Admin. Inj. Press. <u>1768</u> (0.2 psi per ft)	

AOR: Hydrologic and Geologic InformationPOTASH: R-111-P _____ Noticed? _____ BLM Sec Ord ☐ WIPP ☐ Noticed? _____ Salt/Salado T: 200B: 260NW: Cliff House fm _____FRESH WATER: Aquifer Capitan Max Depth _____ HYDRO AFFIRM STATEMENT By Qualified Person ☐NMOSE Basin: Capitan CAPITAN REEF: thru _____ adj _____ NA _____ No. GW Wells in 1-Mile Radius? 2 FW Analysis? XDisposal Fluid: Formation Source(s) Antesia Analysis? _____ On Lease ☐ Operator Only ☐ or Commercial ☒Disposal Interval: Inject Rate (Avg/Max BWPD): 10000 Protectable Waters? MT Source: _____ System Closed or OpenHC Potential: Producing Interval? TBD (SWAB TEST) Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mi Radius Pool Map ☐AOR Wells: 1/2-M Radius Map and Well List? X No. Penetrating Wells: 1 [AOR Horizontals: _____ AOR SWDs: _____]

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

Penetrating Wells: No. P&A Wells _____ Num Repairs? _____ on which well(s)? _____ Diagrams? XNOTICE: Newspaper Date MAY 17, 2018 Mineral Owner NMSU Surface Owner NMSU N. Date MAY 22, 2018RULE 26.7(A): Identified Tracts? Y Affected Persons: Deven, EOG, Foulkner, Mcuburn, RZ N. Date MAY 22, 2018Order Conditions: Issues: PERC 7998-8020 & 7978-7986Additional COAs: Require SWAB TEST, Antesia, Antesia, Antesia
Require C-B-L prior to cleaning out to lower pay