

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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

<b>Applicant:</b> <u>Ray Westall Operating, Inc.</u>	<b>OGRID Number:</b> <u>119305</u>
<b>Well Name:</b> <u>DHY 'A' SWD No.1</u>	<b>API:</b> <u>30-015-21711</u>
<b>Pool:</b> <u>SWD; San Andres-Glorieta</u>	<b>Pool Code:</b> <u>96127</u>

### 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
- 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

9/03/2018

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address



September 3, 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 [re]permit for salt water disposal the  
DHY 'A' State SWD Well No.1, API No.30-015-21711 located in Section 15, Township 19  
South, Range 28 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 reconfigure the existing DHY 'A' State SWD No.1. The well is currently authorized for disposal into the Cisco and Canyon formations by division order SWD-1556. This application proposes the San Andres and Glorieta formations.

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 August 29, 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 herein. This application also includes revised wellbore schematics, area of review maps, affected party 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,

A handwritten signature in blue ink, appearing to read "Ben Stone".

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. Reconfiguration of currently permitted SWD-1556.***
- 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. ***(3 AOR well penetrates the subject interval – 1 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 5 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: ***9/04/2018***

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.**

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**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

### **Item IV – Tabulation of AOR Wells**

Tabulation includes all construction data for all wells within a one-half mile radius.  
9 wells penetrate the proposed injection interval; 7 active and 2 P&A'd.

### **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.



# WELL SCHEMATIC - CURRENT DHY 'A' State Well No.1 SWD

(Sundry for Name Change Filed w/ Artesia OCD District Office)

API 30-015-21711

1980' FSL & 1650' FEL, SEC. 15-T19S-R28E  
EDDY COUNTY, NEW MEXICO

P&A Date: 3/17/1976

Re-Entry Date: ~6/01/2015

Annulus Monitored  
or open to atmosphere

Injection Pressure Regulated  
and Volumes Reported  
1901 psi Max

420'

## Surface Casing

12.75", 40.0# Csg. (17.5" Hole) @ 420'  
400 sx Circulated to Surface

2800'

## Intermediate Casing

8.625", 24.0 & 32.0# Csg. (11.0" Hole) @ 2800'  
1500 sx + 100 sx 3/4" job - Circ. to Surf.

Convert to SWD: D/O & C/O Existing Plugs to 10000'.  
PBTD: Spot 50 sx Cmt 10007'-9857' for BH integrity.  
Run & Set New 7.0" - Set @ 9505'  
Cement 2 stages w/ ~800 sx - Circulate to Surface.  
Run PC Tubing and PKR - Conduct MIT.  
Commence Disposal Operations.

Annulus Loaded  
w/ Inert Packer Fluid

SA: 2468'

WLFPC: 8808'

4.5" IC Tubing  
PKR ~9410'

9505'

CSCO: 9505'

CNYN: 9720'

Openhole Interval: 9505' to 9857'

Spot 50 sx Cmt  
10007'-9857'

PBTD @ 9857'

STRWN: 9980'

ATKA: 10280'

MRRW: 10710'

DTD @ 11510'

## NEW Production Casing

7.0", 20.0/23.0/26.0# Csg - Surface to 9505'  
Est. ~800 sx w/ excess - Circulate to Surface  
2 Stage Cmt w/ DV ~5000'



Drawn by: Ben Stone, 4/14/2015



# WELL SCHEMATIC - PROPOSED DHY 'A' State Well No.1 SWD

API 30-015-21711

1980' FSL & 1650' FEL, SEC. 15-T19S-R28E  
EDDY COUNTY, NEW MEXICO

SWD; San Andres-Glorieta (96127)

P&A Date: 3/17/1976

Re-Config Date: ~11/15/2018

Annulus Monitored  
or open to atmosphere

Injection Pressure Regulated  
and Volumes Reported  
490 psi Max (0.2 psi/ft)

420'

Annulus Loaded  
w/ Inert Packer Fluid

4.5" IC Tubing  
PKR ~9410'

## Surface Casing

12.75", 40.0# Csg. (17.5" Hole) @ 420'  
400 sx Circulated to Surface

## Intermediate Casing

8.625", 24.0 & 32.0# Csg. (11.0" Hole) @ 2800'  
1500 sx + 100 sx 3/4" job - Circ. to Surf.

2800'

Selectively Perf Interval: 2450'-3130'

Set CIBP @ ~3200'  
(Cap w/ 35' Cmt.)

PBTD @ 3165'

Spot MLF 9450'-3200'

## RAY WESTALL OPERATING, INC.

Convert to SWD: POOH w/ TBG & PKR. Set CIBP @ ~9500

Cap w/ 35' Cmt; Load hole w/ MLF; Set CIBP @ ~3200'.

Cap w/ 35' Cmt. Select and Perf Interval.

Run PC Tubing and PKR - Conduct MIT.

Commence Disposal Operations.

## NEW Production Casing

7.0", 20.0/23.0/26.0# Csg - Surface to 9505'  
Est. ~800 sx w/ excess - Circulate to Surface  
2 Stage Cmt w/ DV ~5000'

9505'

Set CIBP @ ~9500'  
(Cap w/ 35' Cmt.)

Spot 50 sx Cmt  
10007'-9857'

DTD @ 11510'

Drawn by: Ben Stone, Rvs'd 9/03/2018



SA: 2468'

WLFPC: 8808'

CSCO: 9505'

CNYN: 9720'

STRWN: 9980'

ATKA: 10280'

MRRW: 10710'

## Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed SAN ANDRES Interval 2450'					9 Wellbores Penetrate Proposed Interval.				
API	Current Operator	Well Name	Well No.	Type	Lease	Status	ULSTR	Depth	Plugged On
<u>Subject Well</u>									
30-015-21711	[119305] RAY WESTALL OPEATING, INC	DHY A STATE SWD	#001	SWD	State	Active	J-15-19S-28E	PBTD	
See CURRENT & PROPOSED Wellbore Diagrams.									

## Section 14 Wells

30-015-02246	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#144	Oil	State	Active	L-14-19S-28E	2986'	
	QN-GRGB-SA Perfs: 2045'-2248', PBTD 2400' ; 10.75" (12.5" hole) @ 100' w/ 450 sx - circ.; 8.625" (10.0" hole) @ 1877' PULLED (8.5" hole) @ 2596' w/ 250 sx - TOC @ 1350' by Calc.								
30-015-02247	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#145	Injection	State	P&A	M-14-19S-28E	2500'	12/1/2011
	See P&A Diagram.								
30-015-02249	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#147	Injection	State	Active	E-14-19S-28E	2255'	
30-015-27299	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#193	Oil	State	Active	M-14-19S-28E	2650'	
30-015-27302	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#196	Oil	State	Active	L-14-19S-28E	2650'	
30-015-27304	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#199	Oil	State	Active	E-14-19S-28E	2650'	

### Section 15 Wells

30-015-33631	[873] APACHE CORP	HINT 15 STATE	#002	Gas	State	Active	H-15-19S-28E	11550'	
	Morrow Perfs: 10,876'-10,930'; 13.375" (17.5" hole) @ 400' w 500 sx - circ.; 9.625 (12.25" hole) @ 2520' w/ 600 sx - circ.; 5.5" (8.75" hole) @ 11547' w/ 2075 sx - TOC @ 950' by Temp.								
30-015-10148	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#190	Oil	State	P&A	G-15-19S-28E	2593'	2/11/1983
	See P&A Diagram.								
30-015-02261	[20451] SDX RESOURCES INC	EAST MILLMAN UNIT	#163	Oil	State	P&A	N-15-19S-28E	0'	3/17/2004
30-015-02256	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#001	Injection	State	Active	A-15-19S-28E	2295'	
30-015-02257	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#150	Oil	State	Active	P-15-19S-28E	2271'	
30-015-02258	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#151	Injection	State	Active	I-15-19S-28E	2141'	
30-015-02259	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#156	Injection	State	Active	O-15-19S-28E	2273'	
30-015-02260	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#157	Oil	State	Active	H-15-19S-28E	2295'	
30-015-02262	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#165	Oil	State	Active	J-15-19S-28E	1855'	
30-015-27469	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#212	Injection	State	Active	P-15-19S-28E	2650'	
	QN-GRGB-SA Perfs: 1920'-2283', PBTD 2400'; 8.625" (12.25" hole) @ 375' w/350 sx, Circ.; 5.5" (7.875" hole) @ 2647' w/ 950 sx - Calc. to Circ, NR.								
30-015-34860	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#232	Oil	State	Active	H-15-19S-28E	3000'	
	QN-GRGB-SA Perfs: 2444'-54' 2568'-2565', PBTD 2765'; 8.625" (12.25" hole) @ 395' w/300 sx, Circ.; 4.5" (7.875" hole) @ 3000' w/ 950 sx - 135 sx Circ to Surf.								



## Form C-108 Item VI - Tabulation of AOR Wells (cont.)

### Section 22 Wells

30-015-02288	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#154	Oil	State	Active	B-22-19S-28E	2571'	
<i>QN-GRGB-SA Perfs: 1738'-62', 1990'-2174', PBTD 2218'; 10.75" (12.0" hole) @ 460' w/ 75 sx - NR; 8.625" (10.0" hole) @ 1802' w/ mud; 4.5" (8.0" hole) @ 2220 w/ 460 sx - Calc to Surf; NR.</i>									
30-015-27297	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#191	Oil	State	TA'd	A-22-19S-28E	2625'	11/8/2016
<i>See TA Diagram &amp; Sundry. Planned WIW.</i>									
30-015-27348	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#203	Oil	State	Active	B-22-19S-28E	2900'	
<i>QN-GRGB-SA Perfs: 1884'-2180', PBTD 2841'; 8.625" (12.25" hole) @ 389' w/ 350 sx - Circ.; 5.5" (7.785" hole) @ 2900' w/ 800 sx - Calc to Surf; NR.</i>									
30-015-02284	[19958] STEPHENS & JOHNSON OP CO	WELCH FEDERAL	#001	Oil	Federal	Active	C-22-19S-28E	2233'	

**SUMMARY: 9 wells penetrate proposed disposal interval. 2 P&A.**



## **C-108 - Item VI**

Area of Review Well Data

### **PLUGGED WELL SCHEMATICS**

There Are 2 P&A'd Wells and 1 TA'd Within the AOR  
Which Penetrate the Proposed Injection Zone.

*Schematics follow this page...*

East Millman Unit  
WELL 145

Millman Yates-SR-QN-GB-SA 12-1, 2011  
FIELD East DATE

— Plug and Abandonment —

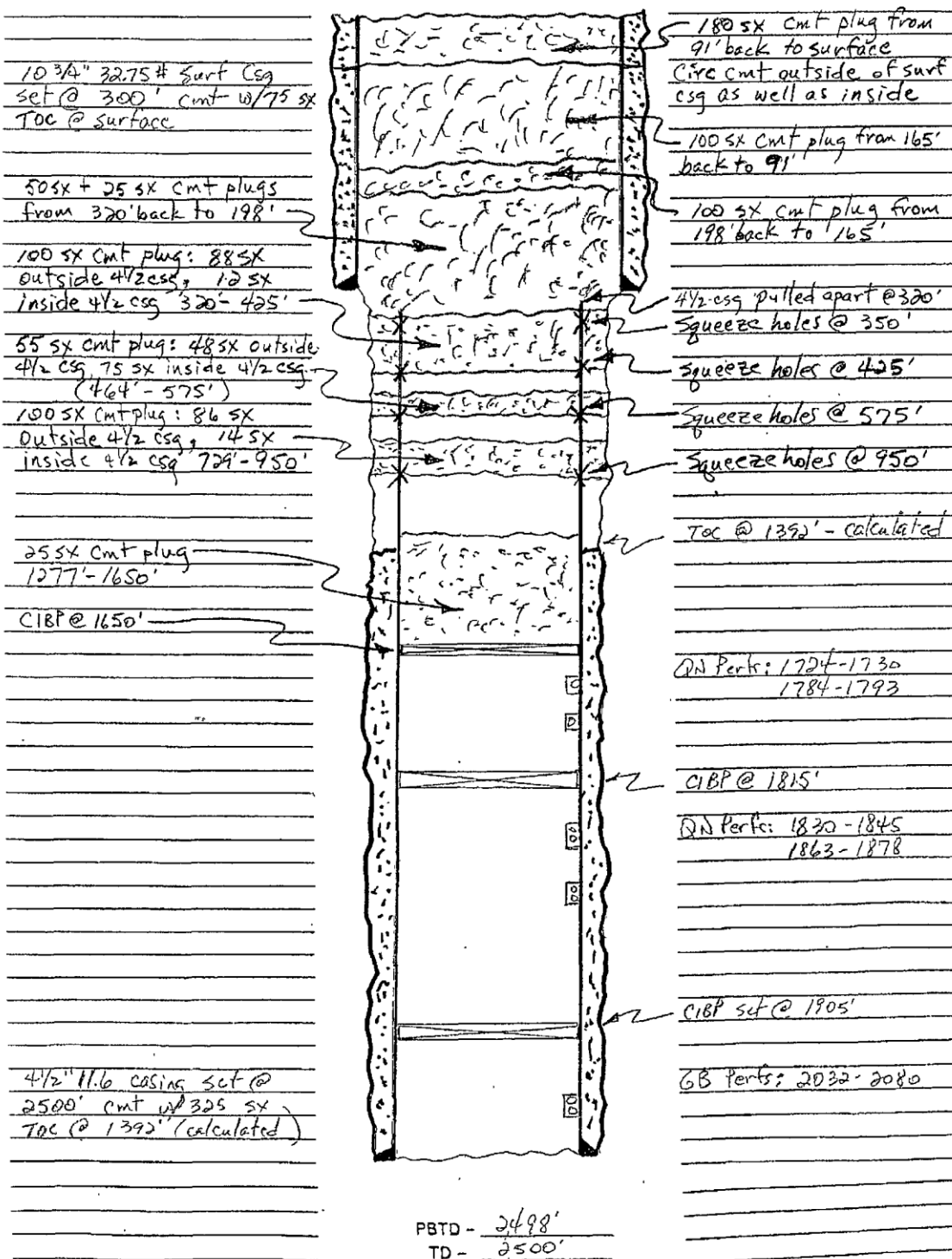
KB ELEVATION \_\_\_\_\_

DF ELEVATION 3443'

GL ELEVATION 3441'

PERMANENT WELL BORE DATA

DATA ON THIS COMPLETION





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

Oil, Gas, and Natural Resources

NO. 1 CONSERVATION  
ARTESIA DISTRICT  
NOV 21 2016  
RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

Revised July 18, 2013

WELL API NO. 30-015-27297
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. State 648
7. Lease Name or Unit Agreement Name East Millman Unit
8. Well Number 191
9. OGRID Number 019958
10. Pool name or Wildcat Millman-Yates-SR-QN-GB-SA East

**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  
Stephens & Johnson Operating Co.

3. Address of Operator  
P O Box 2249, Wichita Falls, TX 76307

4. Well Location  
Unit Letter A : 10 feet from the North line and 10 feet from the East line  
Section 22 Township 19S Range 28E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3431' KB; 3425' GR

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

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: MIT and TA Status Request ☒

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.

Please find attached a witness inspection report from Mr. Richard Inge indicating his witnessing of the mechanical integrity test performed on the East Millman Unit No. 191 on November 8, 2016. The 2 3/8" tubing - 4" liner annulus was tested to 500 psig for 30 minutes resulting in a successful test. Stephens & Johnson Operating Co. respectfully requests a Temporary Abandonment status for a period of 2 years for the subject well. During this time, it is planned to convert this well to a water injection well. Please find attached a wellbore schematic showing the tubular configuration and location of a packer located at a depth of 1616' above perforations located at 1684'-1886' and 1996'-2352'.

Spud Date:

Rig Release Date:

Temporary Abandoned Status Approved  
Until 6/1/2019

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

SIGNATURE William M. Kincaid TITLE Petroleum Engineer DATE 11-17-2016

Type or print name William M. Kincaid E-mail address: mkincaid@sjoc.net PHONE: 940-723-2166

For State Use Only

APPROVED BY: Richard Inge TITLE COMPLIANCE OFFICER DATE 11/21/16  
 Conditions of Approval (if any):

East Millman Unit

WELL No. 191

Millman Yates-SR-QN-GB-SA East

FIELD

Oct 12, 2016

DATE

PRESENT COMPLETION ☒

SUGGESTED COMPLETION ☐

WELL CLASS ☐

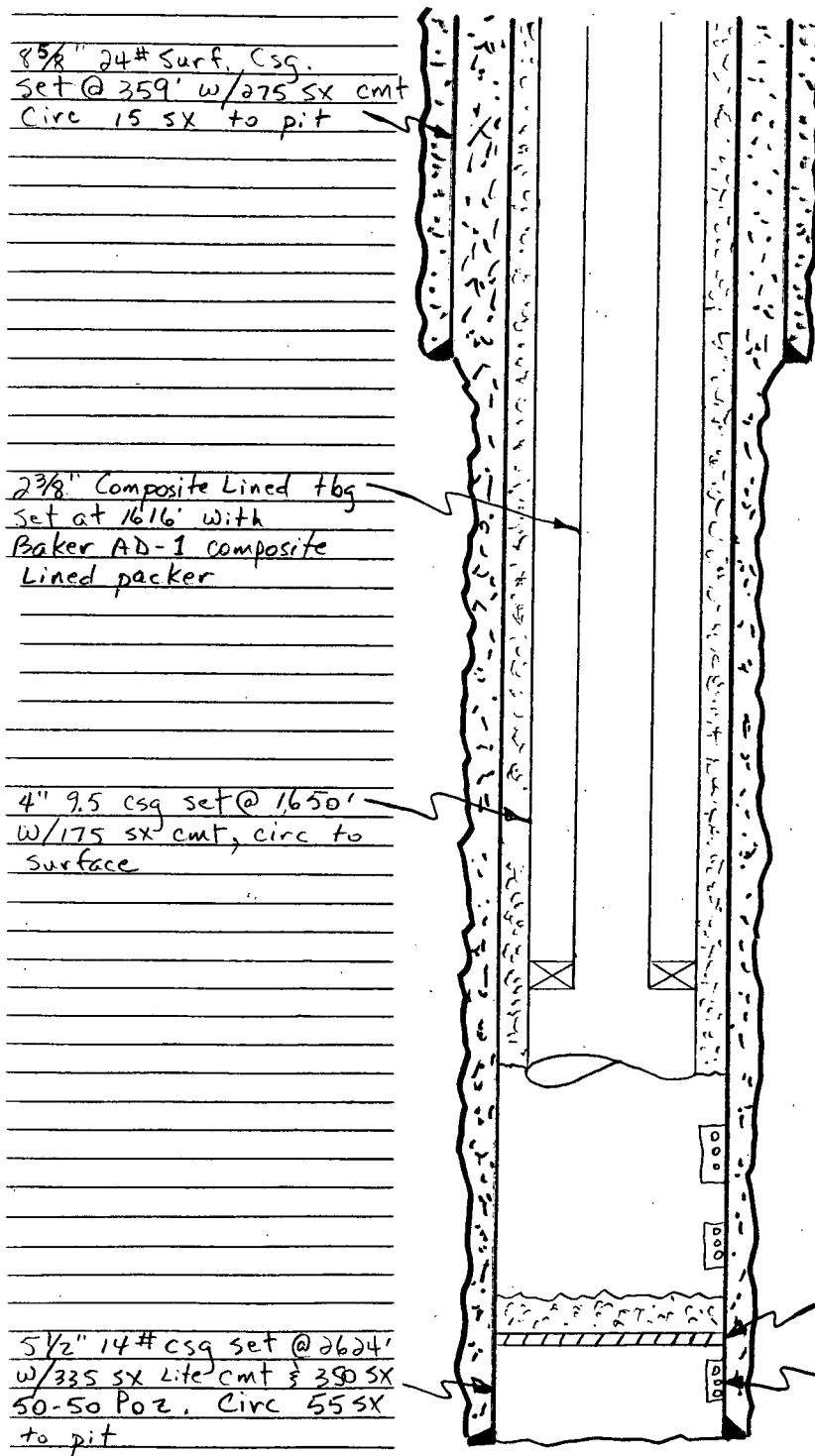
KB ELEVATION 3431'

DF ELEVATION ☐

GL ELEVATION 3425'

PERMANENT WELL BORE DATA

DATA ON THIS COMPLETION



8 5/8" 24# Surf. Csg.  
Set @ 359' w/ 275 SX cmt  
Circ 15 SX to pit

2 3/8" Composite Lined tbg  
Set at 1616' with  
Baker AD-1 composite  
Lined packer

4" 9.5 csg set @ 1650'  
w/ 175 SX cmt, circ to  
surface

5 1/2" 14# csg set @ 2624'  
w/ 335 SX Lite cmt & 350 SX  
50-50 Poz. Circ 55 SX  
to pit

Perforations: 1684'-1886';  
1996'-2352'

CIBP set @ 2378'  
w/ cmt on top of PATB 2360'

San Andres Perfs:  
2402'-2495'

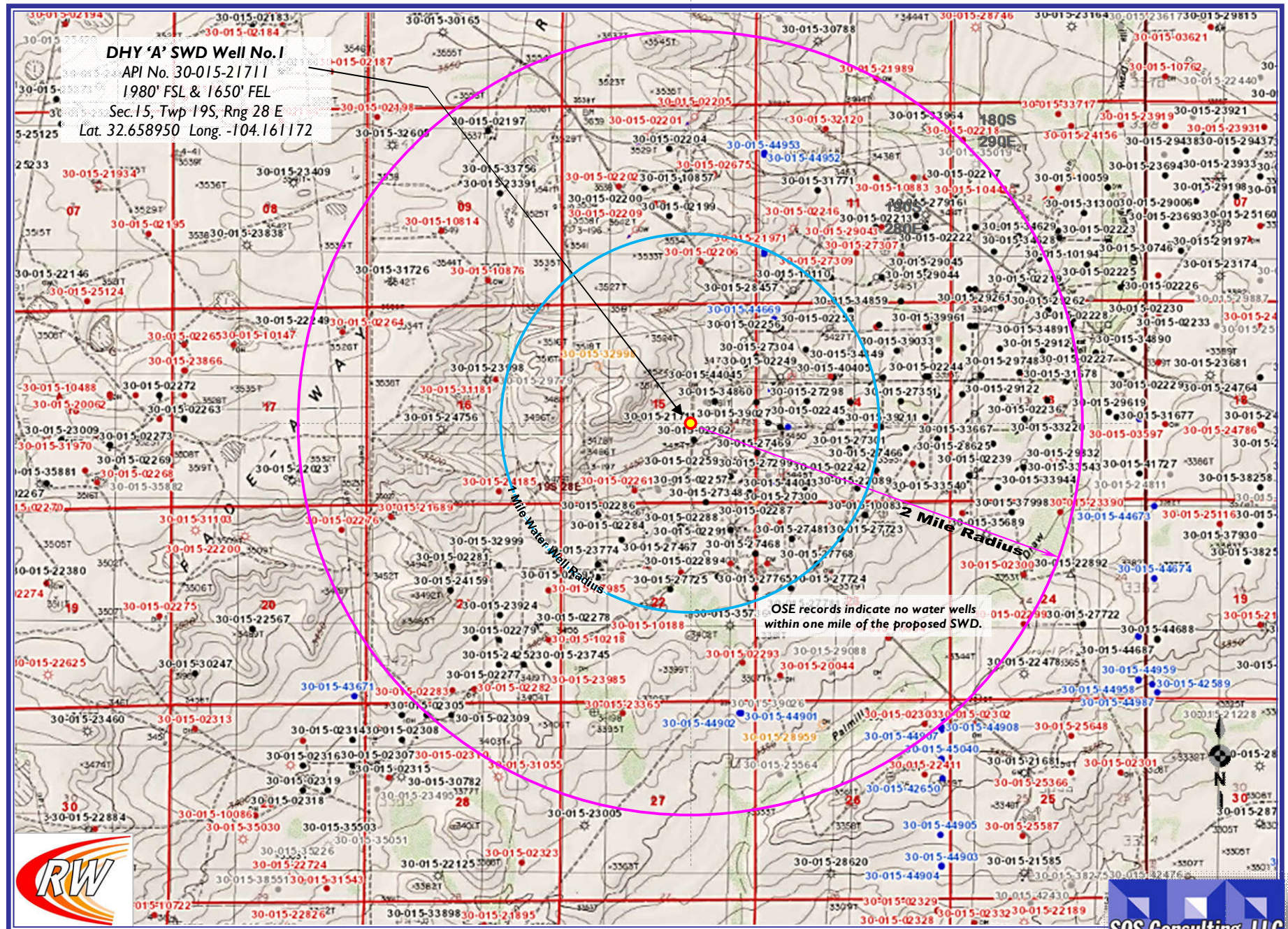
PBTD - 2360'

TD - 2625'



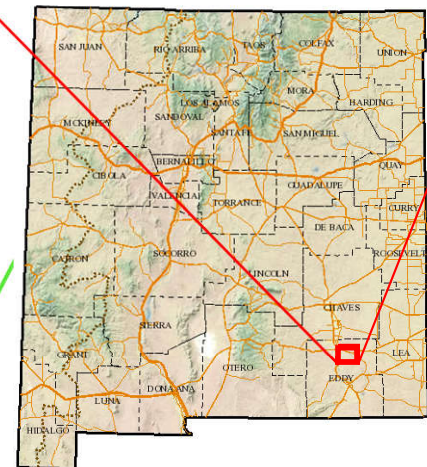
# DHY 'A' SWD Well No.1 - Area of Review - 2 Miles

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





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



Eddy County, New Mexico



**RAY WESTALL OPERATING, INC.**



## **C-108 ITEM X**

LOGS and AVAILABLE TEST DATA

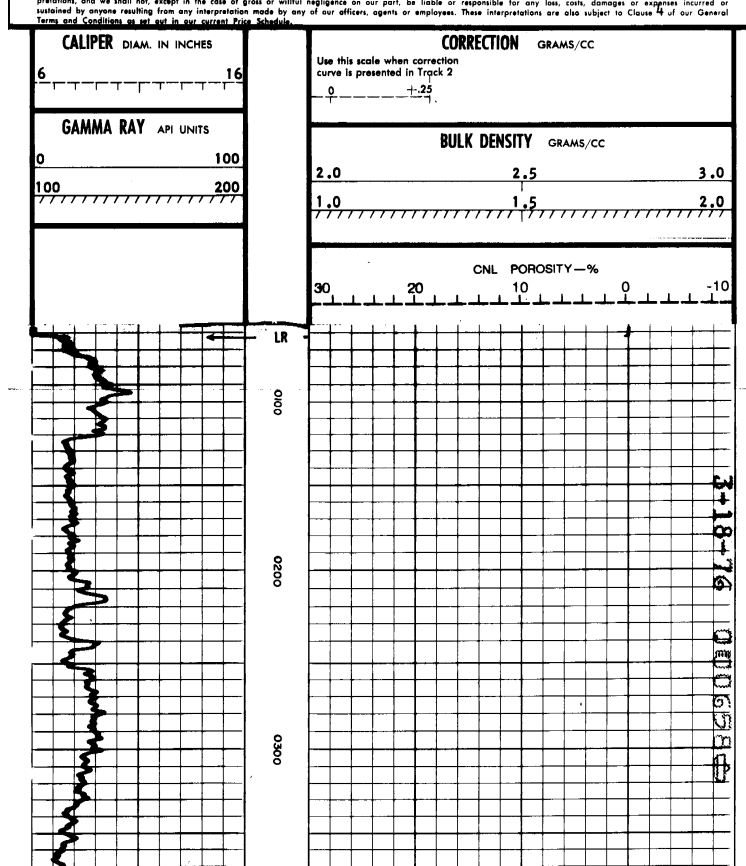
A log strip from the subject well is attached  
With annotations.

**LOG STRIP FOLLOWS**

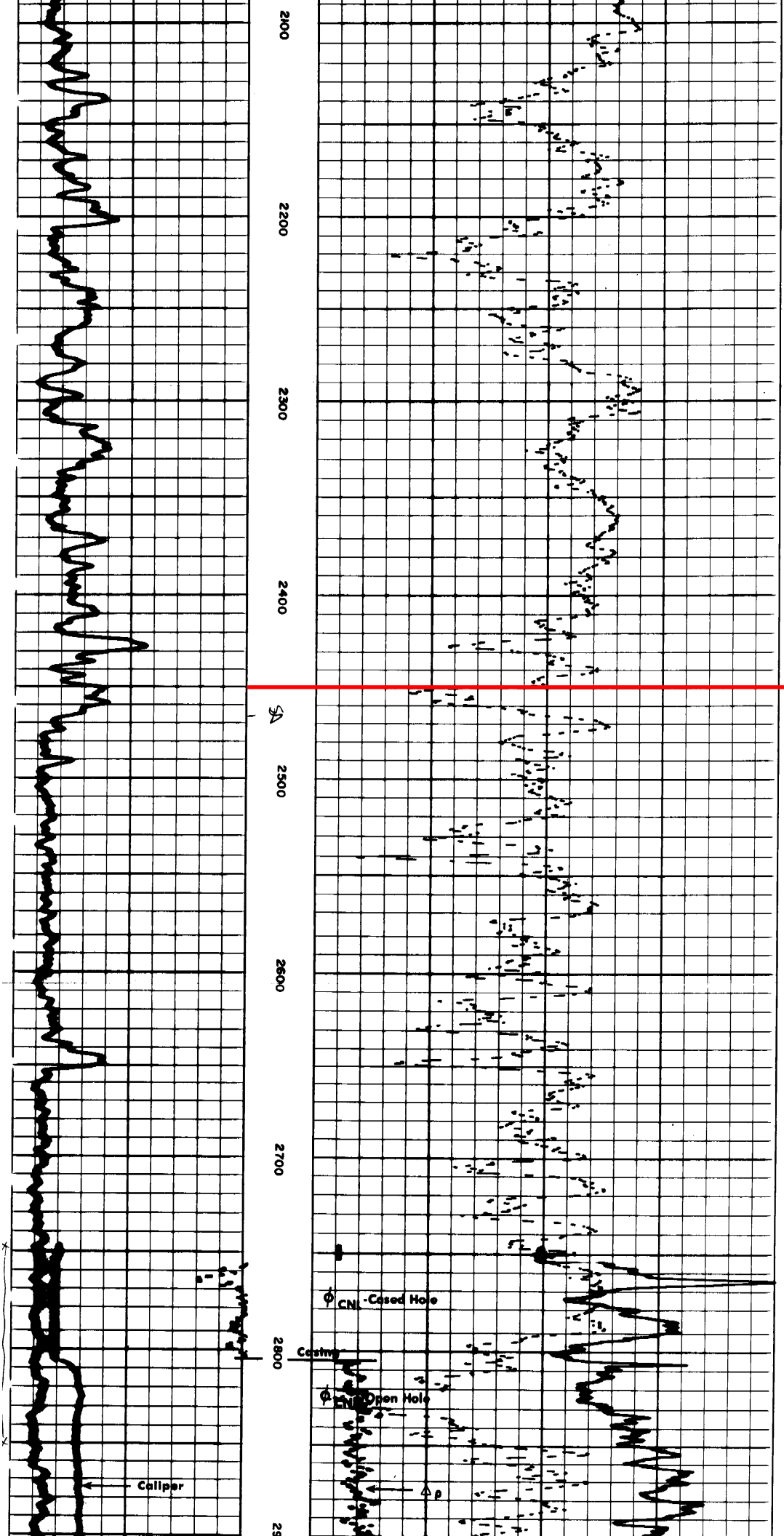
The well name, location and borehole reference data were furnished by the customer.

# LOGGING DATA

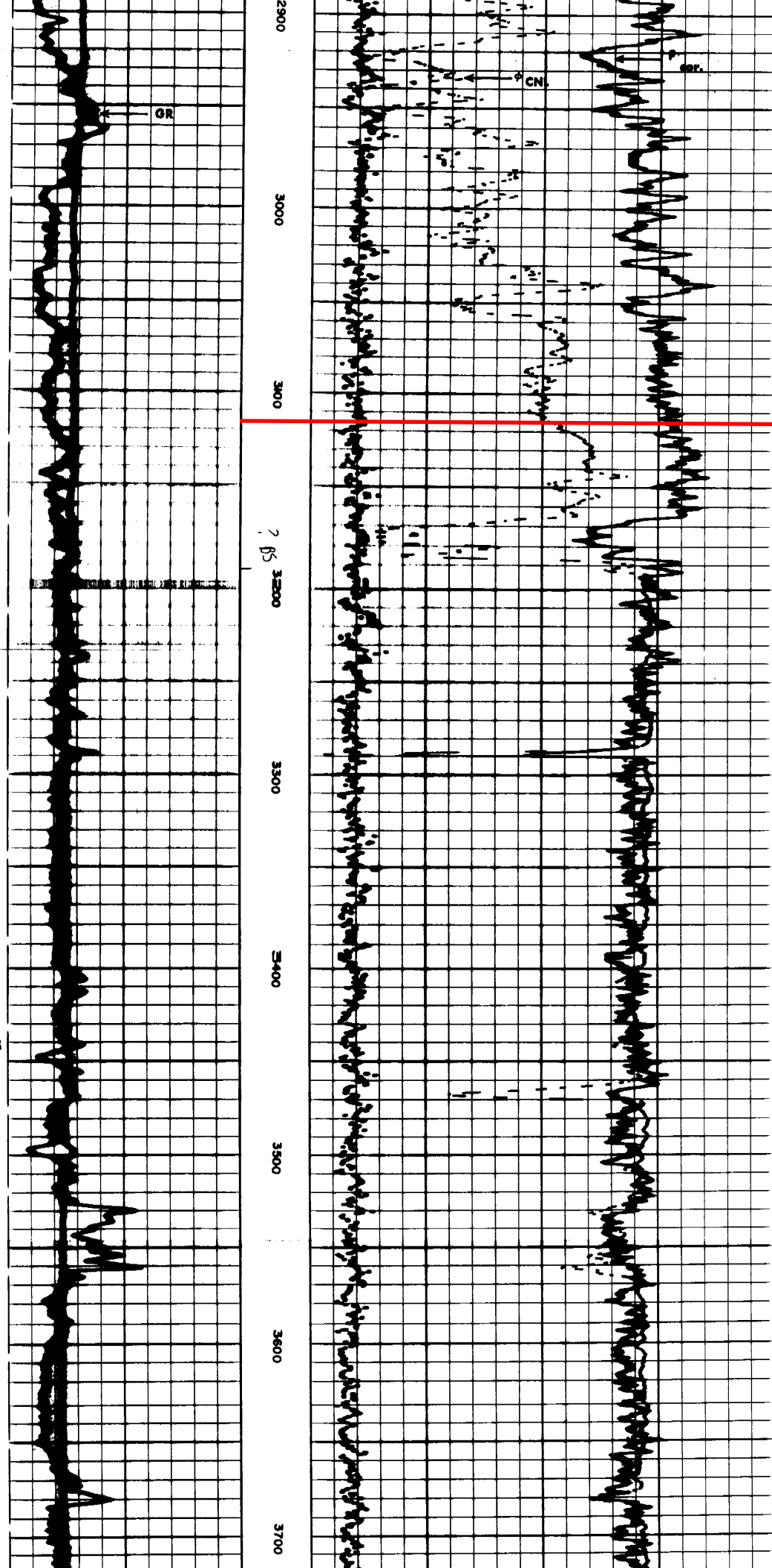
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not accept in the case of any such interpretation.



TOP of  
PROPOSED  
INTERVAL  
2450'



BOTTOM of  
PROPOSED  
INTERVAL  
3130'



## **C-108 ITEM VII**

### **PROPOSED OPERATION**

The DHY 'A' SWD No.1 has been 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 Grayburg/ San Andres and Bone Spring formation waters - chlorides and TDS are relative compatible with San Andres/ Glorieta waters.) RWO intends to recomplete the currently permitted Cisco/Canyon (SWD-1556) interval to the San Andres interval.

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 490 psi with rates limited only by that pressure but are not expected to be greater than approximately 2500 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**

Grayburg/ San Andres  
Bone Spring

### **Item VII.5 – Water Analysis of Disposal Zone Water**

San Andres

**Water Analyses follow this page.**

**C-108 Item VII.5 - Produced Water Data**  
**Ray Westall Operating, Inc. - DHY 'A' State SWD Project**

**SOURCE ZONE**

**GRAYBURG-SAN ANDRES**

<b>API No</b>	3001505403	<b>Lab ID</b>	
<b>Well Name</b>	PUCKETT B	<b>Sample ID</b>	6982
	013	<b>Sample No</b>	
<b>Location</b>	ULSTR 25 17 S 31 E	<b>Lat / Long</b>	32.80015 -103.82049
	660 S 1980 E	<b>County</b>	Eddy
<b>Operator (when sampled)</b>			
	Field MALJAMAR	<b>Unit</b>	O
<b>Sample Date</b>	6/27/1960	<b>Analysis Date</b>	
	<b>Sample Source</b> WELLHEAD	<b>Depth (if known)</b>	
	<b>Water Typ</b>		
ph		alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	25537	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	12460	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	102
iron_mgL		sulfate_mgL	4424
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. - DHY 'A' State SWD Project**

**SOURCE ZONE**

**BONE SPRING**

<b>API No</b>	3001520225	<b>Lab ID</b>	
<b>Well Name</b>	BIG EDDY UNIT	<b>Sample ID</b>	5847
	012	<b>Sample No</b>	
<b>Location</b>	ULSTR 21 20 S 31 E	<b>Lat / Long</b>	32,56399 -103,87994
	660 N 660 W	<b>County</b>	Eddy
<b>Operator (when sampled)</b>	MALLON OIL COMPANY		
	<b>Field</b>	<b>Unit</b>	D
	BIG EDDY		
<b>Sample Date</b>	8/27/1999	<b>Analysis Date</b>	8/31/1999
<b>Sample Source</b>	Depth (if known)		
<b>Water Typ</b>			
ph	5.2	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.125	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	181697	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	123750	conductivity_temp_F	
sodium_mgL	73895.6	carbonate_mgL	
calcium_mgL	5625	bicarbonate_mgL	13,725
iron_mgL	337.5	sulfate_mgL	787.5
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	0
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. - DHY 'A' State SWD Project**

**DISPOSAL ZONE**

**SAN ANDRES**

<b>API No</b> 3001530132		<b>Lab ID</b>	
<b>Well Name</b> KAISER B 006		<b>Sample ID</b> 3644	
		<b>Sample No</b>	
<b>Location</b> ULSTR 18 18 S 27 E	<b>Lat / Long</b> 32.74840	-104.32105	
2310 N 1650 W		<b>County</b> Eddy	
<b>Operator (when sampled)</b> DEVON ENERGY CORPORATION			
Field		Unit F	
<b>Sample Date</b> 12/1/1999	<b>Analysis Date</b> 12/7/1999		
<b>Sample Source</b>		<b>Depth (if known)</b>	
<b>Water Typ</b>			
ph 6	alkalinity_as_caco3_mgL		
ph_temp_F	hardness_as_caco3_mgL		
specificgravity 1.133	hardness_mgL		
specificgravity_temp_F	resistivity_ohm_cm		
tds_mgL 200464	resistivity_ohm_cm_temp		
tds_mgL_180C	conductivity		
chloride_mgL 133186	conductivity_temp_F		
sodium_mgL 85561.9	carbonate_mgL	0	
calcium_mgL 2004.28	bicarbonate_mgL	829.356	
iron_mgL 4.532	sulfate_mgL	4656.63	
barium_mgL 0.1133	hydroxide_mgL		
magnesium_mgL 403.348	h2s_mgL	113.3	
potassium_mgL 440.737	co2_mgL		
strontium_mgL 38.522	o2_mgL		
manganese_mgL	anionremarks		

Remarks

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



## **C-108 ITEM VIII**

### **GEOLOGIC INFORMATION**

The San Andres formation consists of subtidal porous dolostones characterized by an upward-shallowing succession of outer- to inner-ramp carbonate lithofacies. The trapping mechanism for the San Andres play in the Northwest Shelf results mainly from porosity pinch-outs defined by an increase in the anhydrite content or in the degree of the dolomitization. The San Andres is overlain by the Grayburg and then Queen formations.

The Glorieta formation is a shallow water carbonate and sandstone that occurs between the prolific Clear Fork (Leonardian) and San Andres (Leonardian-Guadalupean) formations on the Central Basin Platform and northwestern shelf and has been considered basal to the San Andres. The Glorieta is underlain by the Yeso and then Abo.

There is a potential source of drinking water in the overlying sands occurring at a depth from surface of up to 250 feet. (Note: there are no known domestic water wells within one mile of the proposed SWD well.) The upper part of the section on average consists of 200 ft of Holocene alluvial deposits of caliche, sand, gravel, and clay. Included in this interval are red sandstone and shale of the Chinle formation and Santa Rosa sandstone and similar deposits of the Dewey Lake formation. These formations are underlain by the Rustler and Salado formations.

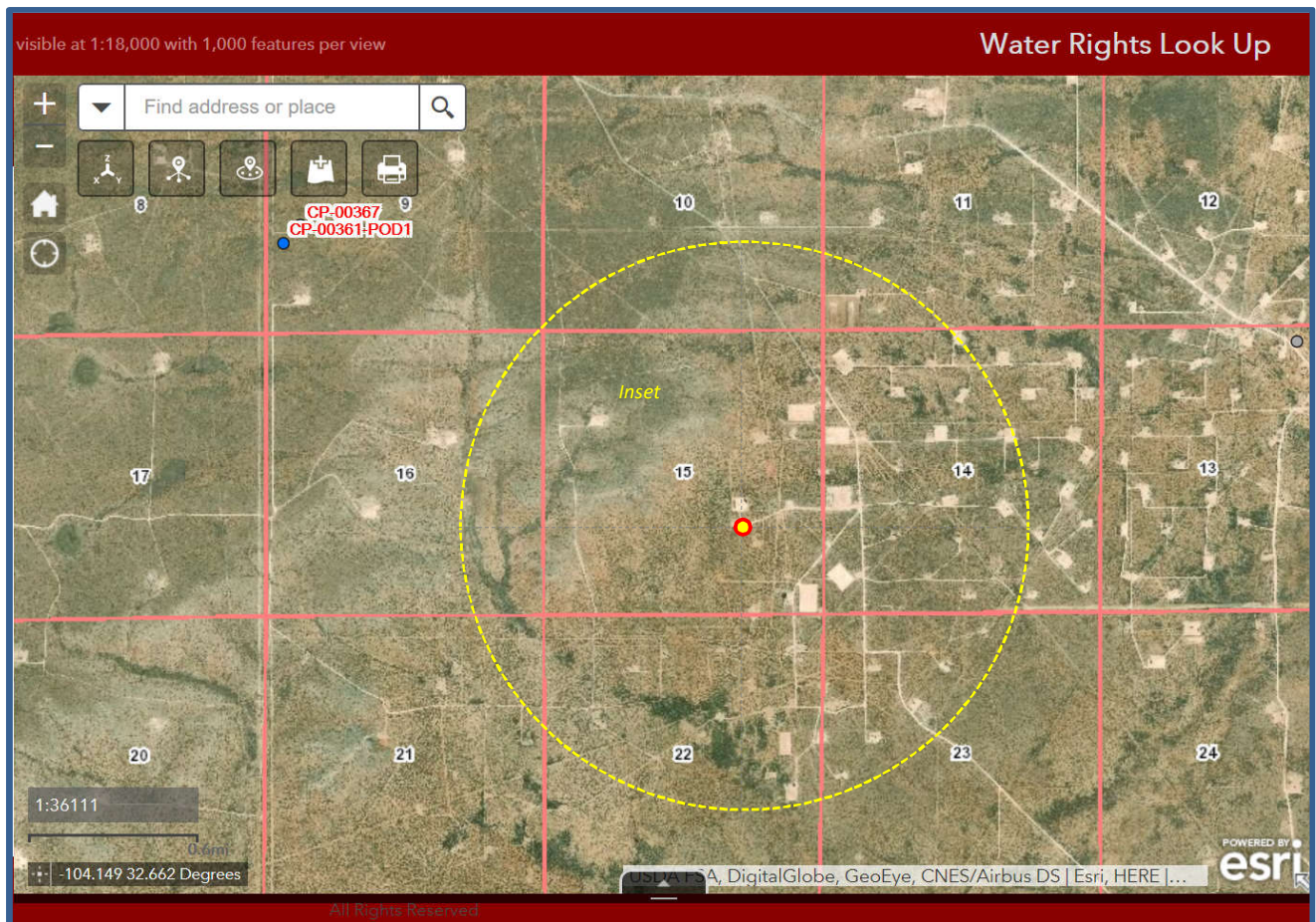
There are no known sources of water <10,000 mg/l TDS which underlie the injection zones.

# C-108 Item XI

## Water Wells Within One Mile

### DHY 'A' State SWD No.1 - Water Well Locator Map

*There are NO water wells/ PODs within a one-mile radius of the proposed SWD.*



*Data from NM Office of the State Engineer displayed in OSE-GIS System.*

## **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.  
DHY 'A' SWD Well No.1  
Reviewed 8/30/2018

## **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

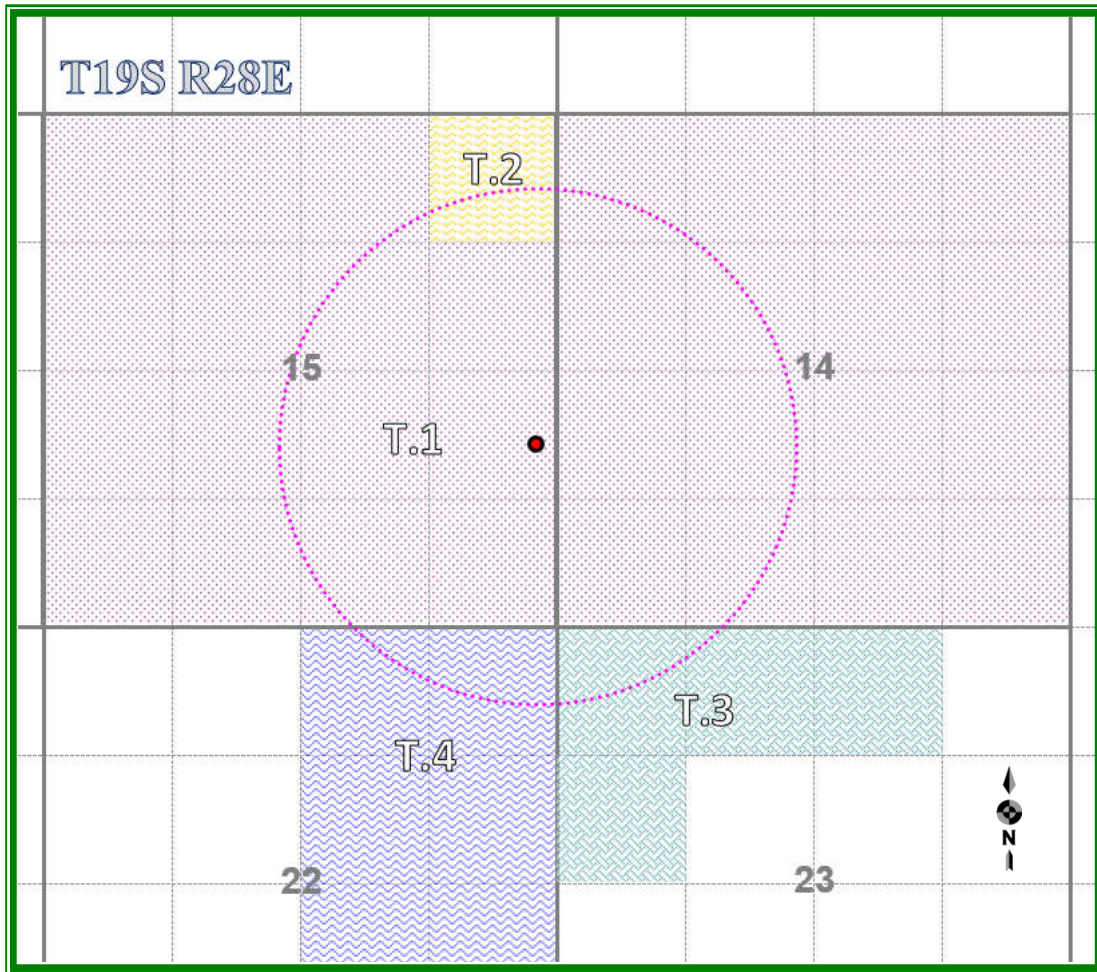
Proof of Certified Mailing

Affidavit Published Legal Notice



# DHY 'A' State SWD No.1 – Affected Parties Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



**RAY WESTALL OPERATING,**

## LEGEND

~ ~ All State Leases ~ ~

T.1 – X0-0648-0154 – WPX Energy Permian, LLC

T.2 – E0-5003-0006 – WPX Energy Permian, LLC

T.3 – E0-5136-0004 – ZPZ Delaware I, LLC

T.4 – X0 -0648-0153 – RKI Exploration & Production, LLC

# 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 OWNER

- 1 STATE OF NEW MEXICO (FedEx'ed copy)  
Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504  
Certified: 7017 2400 0000 5297 5959

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

#### **State Leases X0-0648-0154; E0-5003-0006**

##### ***Lessee***

- 2 WPX ENERGY PERMIAN, LLC  
3500 One Williams Center, Ste.4400  
Tulsa, OK 74172-0135  
Certified: 7017 2400 0000 5297 5966

##### ***Operators***

- 3 STEPHENS & JOHNSON OPERATING CO.  
P.O. Box 2249  
Wichita Falls, TX 76307  
Certified: 7017 2400 0000 5297 5973
- 4 APACHE CORPORATION  
303 Veterans Airpark Lane  
Midland, TX 79701  
Certified: 7017 2400 0000 5297 5980

#### **State Leases X0-5136-0004**

##### ***Lessee***

- 5 ZPZ DELAWARE I, LLC  
2000 Post Oak Blvd., Ste. 100  
Houston, TX 77056-4497  
Certified: 7017 2400 0000 5297 5997

##### ***Operator***

STEPHENS & JOHNSON OPERATING CO.  
P.O. Box 2249  
Wichita Falls, TX 76307

# **C-108 ITEM XIII – PROOF OF NOTIFICATION**

## **AFFECTED PARTIES LIST (cont.)**

### **State Lease X0-0648-0153**

#### ***Lessee***

- 6 RKI EXPLORATION & PRODUCTION, LLC  
3500 One Williams Center, Ste.4400  
Tulsa, OK 74172-0135  
Certified: 7017 2400 0000 5297 6000

#### ***Operator***

STEPHENS & JOHNSON OPERATING CO.  
P.O. Box 2249  
Wichita Falls, TX 76307

### **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

NEW MEXICO STATE LAND OFFICE (FedEx'ed copy)  
Commissioner of Public Lands  
310 Old Santa Fe Trail  
Santa Fe, NM



August 29, 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 recompleate for salt water disposal the DHY 'A' State SWD No.1. The well is currently permitted as an SWD into the Cisco/ Canyon formations. This application is to propose moving uphole to the San Andres/ Glorieta formations. 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 15, Township 18 South, Range 28 East in Eddy County, New Mexico.

The published notice states that the interval will be from 2450 feet to 3130 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on or about August 29, 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 its DHY 'A' State SWD Well No.1 (Currently permitted by SWD-1556). The well, API No.30-015-21711 is located 1980 FSL & 1650 FEL in Section 15, Township 19 South, Range 28 East in Eddy County, New Mexico. Produced water from area production will be disposed into the San Andres and Glorieta formations through perforations between a maximum top of 2450 feet to maximum depth of 3130 feet (specific perforated intervals to be determined) at a maximum injection pressure of 490 psi and 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](mailto: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-s2b4e242876a4c7e9>

**(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](mailto:info@sosconsulting.us), and the same PDF file copy will be expedited to you via email.

Please use a subject like, **"DHY A SWD August 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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You will not be solicited by SOS or anyone else. Data is stored on Citrix Systems servers only.



# C-108 - Item XIV

## Proof of Notice (Certified Mail Receipts)

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 5.25
<b>Total Postage and Fees</b>	<b>\$ 6.70</b>

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Oil, Gas and Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, NM 87504

PS Form 3800, April 2012

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WPX ENERGY PERMIAN, LLC  
3500 One Williams Center, Ste. 4400  
Tulsa, OK 74172-0135  
Artesia, NM 88210

PS Form 3800, April 2012

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<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
<b>Total Postage and Fees</b>	<b>\$ 6.70</b>

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STEPHENS & JOHNSON OP. CO.  
P.O. Box 2249  
Wichita Falls, TX 76307

PS Form 3800, April 2012

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
<b>Total Postage and Fees</b>	<b>\$ 6.70</b>

Sent To  
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City, State

APACHE CORPORATION  
303 Veterans Airpark Lane  
Midland, TX 79701

PS Form 3800, April 2012

## C-108 - Item XIV

Proof of Notice (Certified Mail Receipts – cont.)

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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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PS Form

actions

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AUG 30 2018

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2000 Post Oak Blvd., Ste. 100  
Houston, TX 77056-4497

7017 2400 0000 5297 6665 6707

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
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**Total Postage and Fees** 6.70

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AUG 30 2018

RKI EXPLORATION & PROD, LLC  
3500 One Williams Center, Ste. 4400  
Tulsa, OK 74172-0135



# Affidavit of Publication

No. 24809

State of New Mexico

County of Eddy:

**Danny Scott**

being duly sworn says that he is the **Publisher**

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

## Legal 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 August 29, 2018

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

30th day of August 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 its DHY 'A' State SWD Well No.1 (Currently permitted by SWD-1556). The well, API No.30-015-21711 is located 1980 FSL & 1650 FEL in Section 15, Township 19 South, Range 28 East in Eddy County, New Mexico. Produced water from area production will be disposed into the San Andres and Glorieta formations through perforations between a maximum top of 2450 feet to maximum depth of 3130 feet (specific perforated intervals to be determined) at a maximum injection pressure of 490 psi and a maximum rate limited only by such pressure.

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Published in the Artesia Daily Press, Artesia, N.M., Aug 29, 2018 Legal No. 24809.