

ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

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

-SWD 1674
-Ray Westall Operating, Inc
119305

Check One Only for [B] or [C]

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

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

- [D] Other: Specify _____

RECEIVED
 APR 26 2017

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

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

well
-Sag 4/20/28
State com # 1
30-05-34001
Pool
-SWD, workcamp
-Penn
96138

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

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

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

Ben Stone
 Print or Type Name

Ben Stone
 Signature

Agent for Ray Westall Operating, Inc. 4/20/17
 Title Date
 ben@sosconsulting.us
 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Salt Water Disposal** and the application *qualifies* for administrative approval.
- II. OPERATOR: **Ray Westall Operating, Inc. (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. **(0 (NO) AOR wells penetrate the subject interval.)** 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 wall w/ 15% HCl w/ up to 5000 gals/1000'.**
- *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 is 1 water well within one mile the proposed salt water disposal well.**
- 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 lessees 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: **4/20/2017**

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.

WELL SCHEMATIC - CURRENT

Saguaro "28" State #1
 Turkey Track; Morrow, North
 API No. 30 - 015 - 34001
 1606' FSL & 518' FWL
 Section 28 - T18S - R28E
 Eddy County, New Mexico

Final P & A Status
 10 / 0 1 / 09

GL = 3642'
 RKB = 14'

B/Salt - Yates - Surface Shoe - Top Plug
 0' - 1200'
 13 3/8" sx "C"
 Set 9/30/09

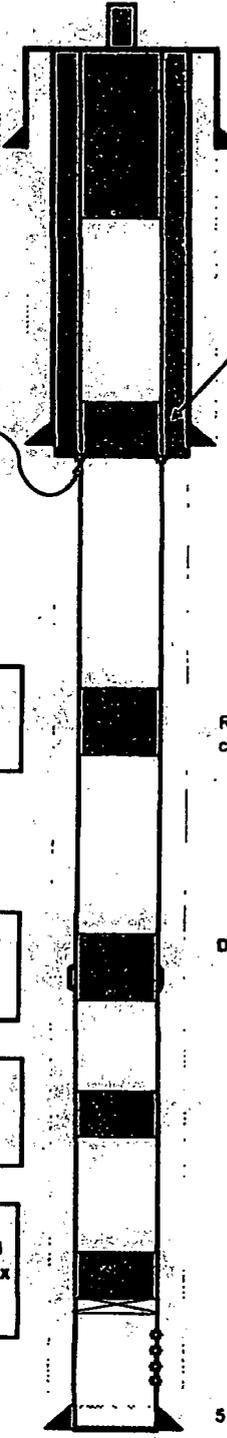
Intermediate Casing Shoe Plug
 Perfor 5 1/2" csg @ 3125'; set pkr @ 2720' & established circulation to surface via the 8 5/8" x 5 1/2" annulus. Cemented annulus to surface w/ 505 sx Class "C", displaced below pkr to 2875' and WOC overnight. Cementing completed on 9/29/09 & plug tagged @ 2878' on 9/30/09.

Regulatory Plug
 4950' - 6200'
 25 sx Class C
 Set 9/24/09

Stage Tool, Wolfcamp Plug
 7000' - 7505'
 55 sx Class H
 Set 9/24/09

Claco - U. Penn Plug
 8440' - 8840'
 45 sx Class H
 Set 9/24/09

Producing Zone Plug
 Set: CIBP @ 10,500', tested to 1000 psl & capped w/ 25 sx "H".
 Plugs set 9/22/09



13 3/8" 48# H-40 STC @ 488'
 Cmt'd w/ 595 sx, circ to surface

TOC = 3020' by CBL of 9/25/09
 Good cmt bond top ls @ 3150', poor bonding above this depth to 3020'

8 5/8" 32# J-55 STC @ 3100'
 Cmt'd w/ 910 sx, TOC @ 18'

Regulation states that distance between plugs in a cased hole can not exceed 3000'

DV @ 7461' (note: drilled @ 7436' SLM)

Stage 2, cmt'd w/ 540 sx, calc'd TOC = 3000'

Morrow 10,583-592', 10,607-609' 2 JSPF
 Morrow 10,613' - 10,618' 4 JSPF

5 1/2" 17# P-110 LTC @ 10,844'

Stage 1, cmt'd w/ 525 sx, circ cmt from above DV tool @ 7461'

DCD 9/21/09

10,784' PBD
 10,860' TD

Event Date	
Spud	5/6/05
RR	6/10/05
Well Life	1609 days
	5/7/05
	5/14/05
	2/14/08
	6/20/05
	6/7/05



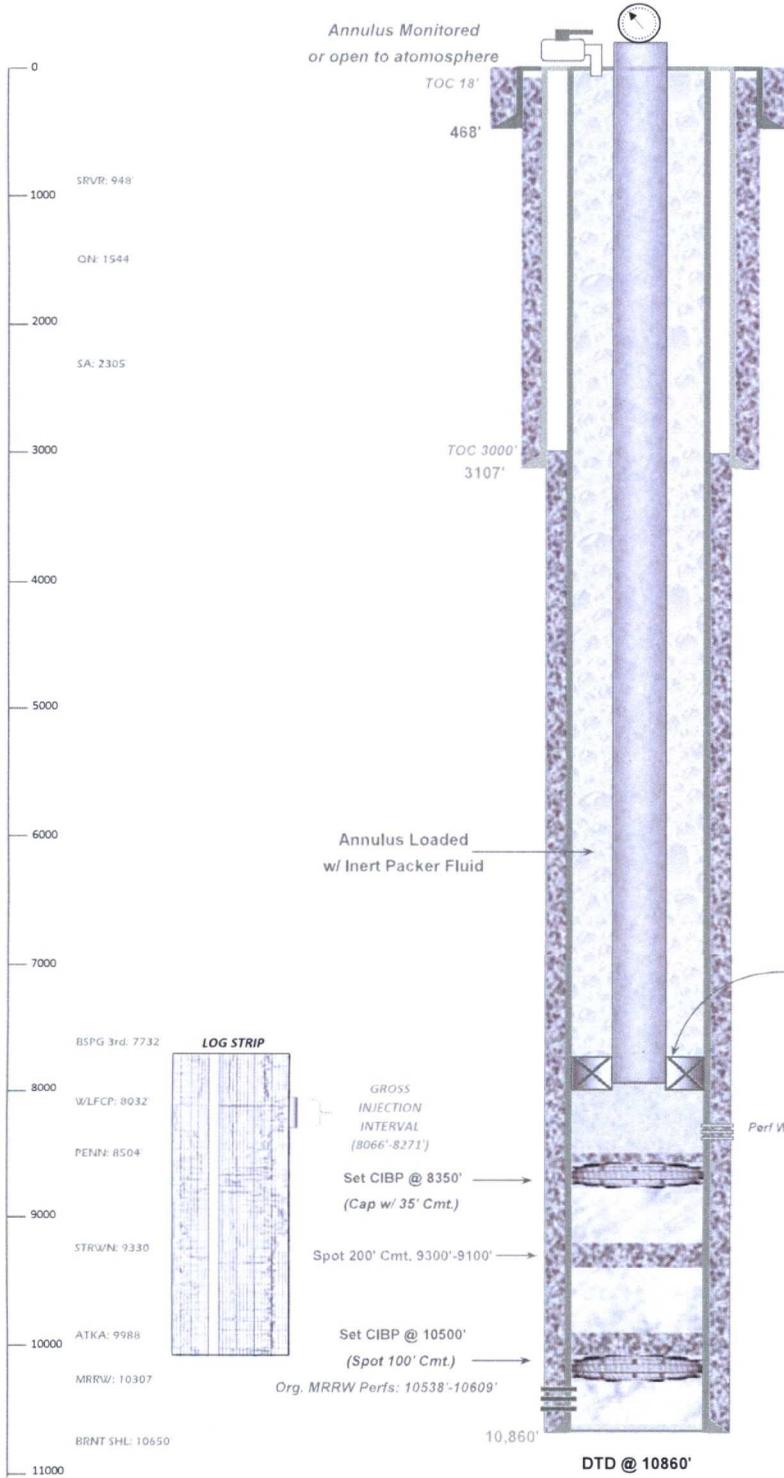
WELL SCHEMATIC - PROPOSED
Saguaro 28 State Well No.1 SWD

API 30-015-34001

1606' FSL & 518' FWL, SEC. 28-T18S-R28E
 EDDY COUNTY, NEW MEXICO

SWD; Wolfcamp (96135)

Spud Date: 5/06/2005
 Config SWD Dt (Est): ~6/15/2



Injection Pressure Regulated
 and Volumes Reported
 1613 psi Max. Surface (0.2 psi/ft)

Surface Casing

13.375", 48.0# H-40 STC Csg. (17.5" Hole) @ 468'
 595 sx - Circulated to Surface

Intermediate Casing

8.625", 32.0# J-55 Csg. (11.0" Hole) @ 3107'
 910 sx - TOC @ 18' Mth N/R

RAY WESTALL OPERATING, INC.

Convert to SWD: D/O & C/O Existing Plugs.

Set CIBP @ 9830' w/ 35' Cmt Cap.

Perforate Specific Intervals TBD.

Run PC Tubing and PKR - Conduct MIT.

Commence Disposal Operations.

Annulus Loaded
 w/ Inert Packer Fluid

3.5" IC Tubing (or smaller)
 PKR ~7966'+

Note: PKR Set 100' Above Final Uppermost Perf Interval

Perf WC (8066'-8271')

Specific Perf Intervals To Be Determined
 Between Max Top 8066' and Max Bottom 8271'

GROSS
 INJECTION
 INTERVAL
 (8066'-8271')

Set CIBP @ 8350'
 (Cap w/ 35' Cmt.)

Spot 200' Cmt. 9300'-9100'

Set CIBP @ 10500'

(Spot 100' Cmt.)

Org. MRRW Perfs: 10538'-10609'

Production Casing

5.5", 17.0# P-110 Csg. (7.875" Hole) @ 10,860'

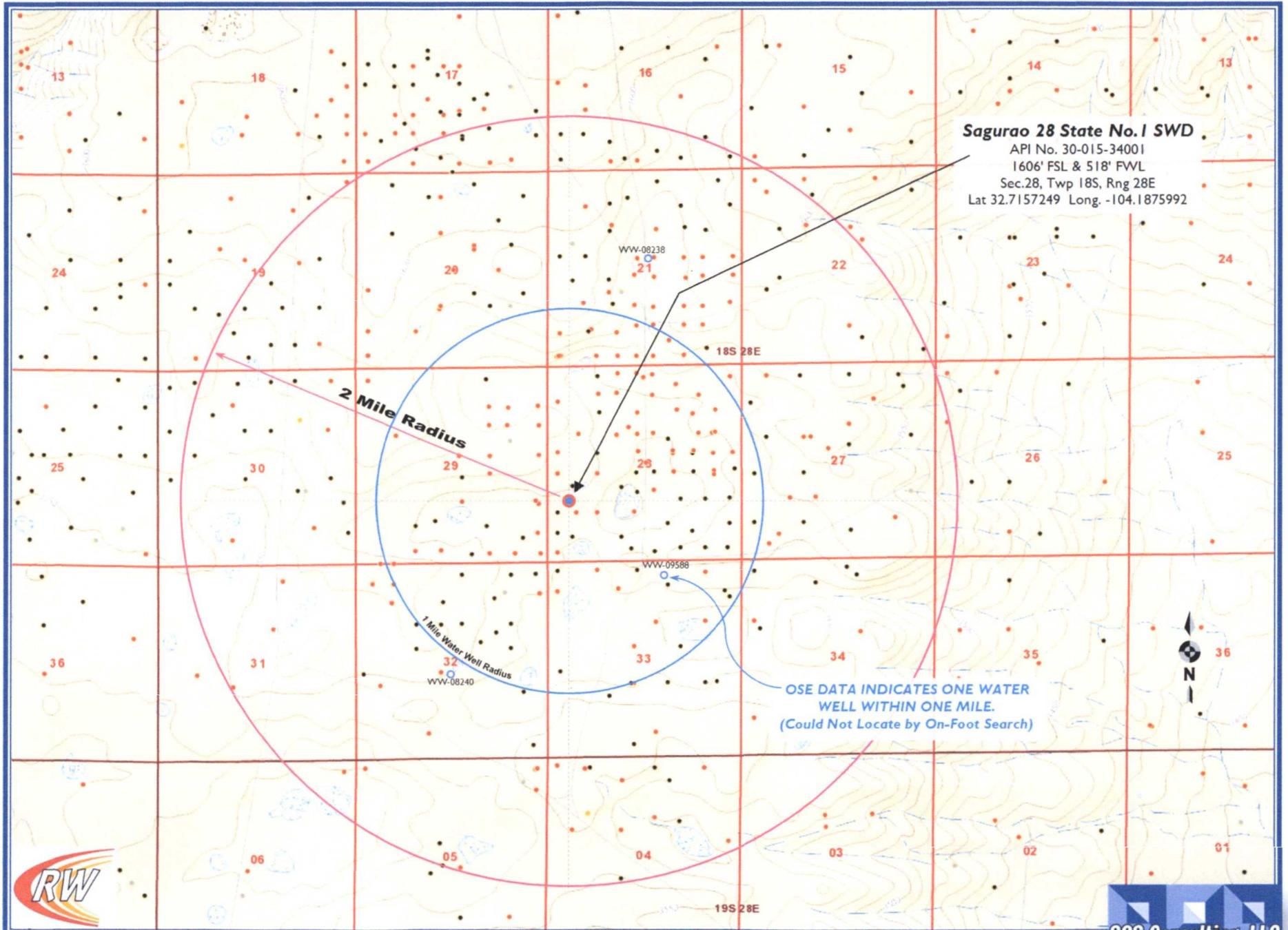
DV @ 7461; w. 540 sx; 525 sx - TOC @ 3000' by Mth N/

Drawn by: Ben Stone, Rvs'd 8/05/2017



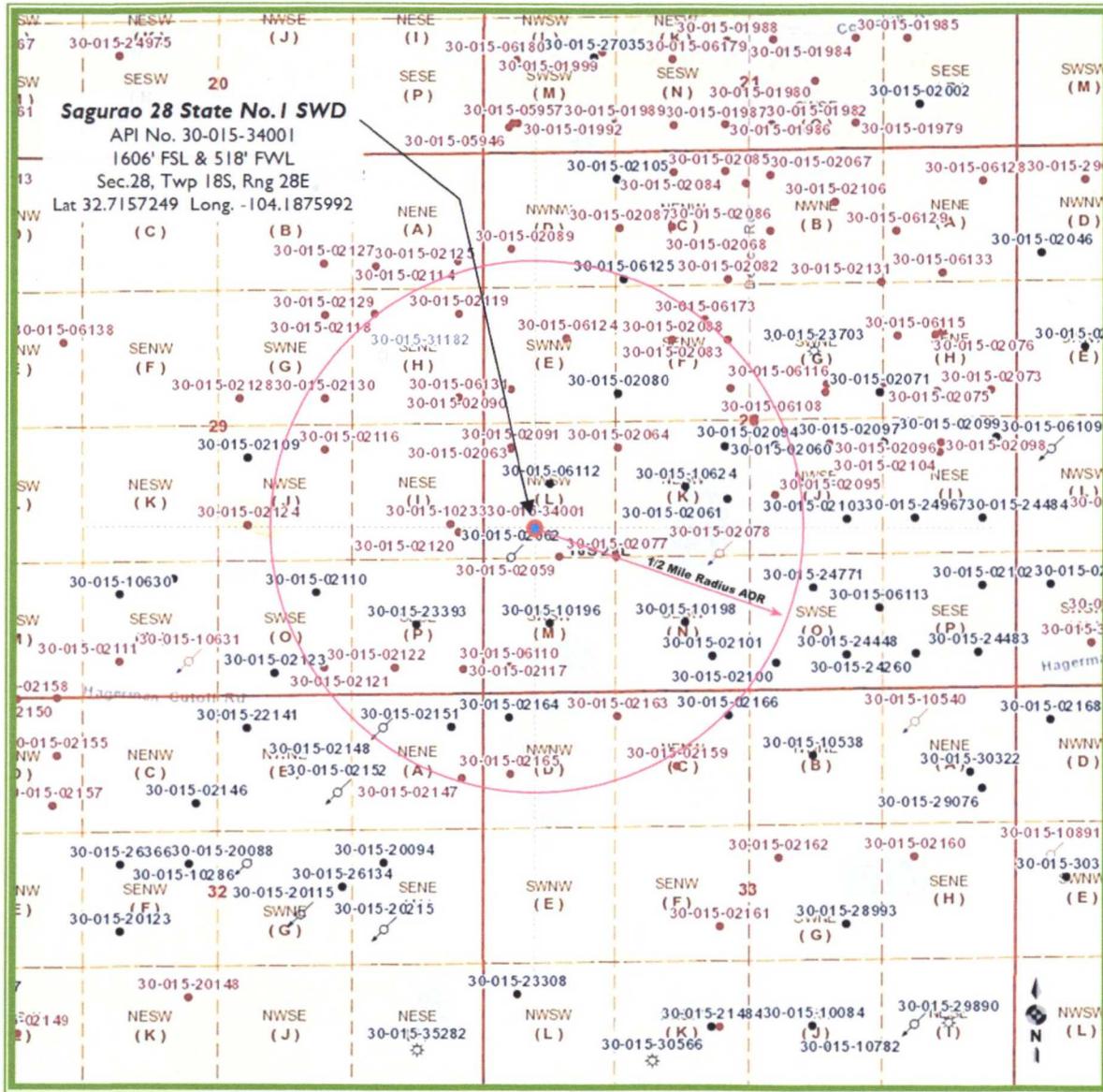
Saguaro State 28 No.1 SWD - Area of Review / 2 Miles

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

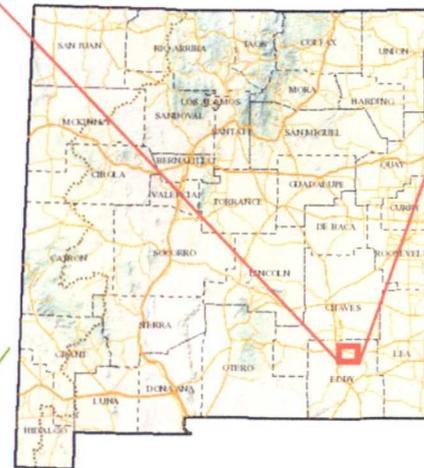


Saguaro 28 State Well No.1 SWD - Area of Review / Overview Map

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



14.9 miles Southeast of Artesia, NM



Eddy County, New Mexico



RAY WESTALL OPERATING, INC.



Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed WOLFCAMP Interval 8066'

NO (0) Wells Penetrate Proposed Interval.

API	Current Operator	Well Name	Well Number	Type	Lease	Status	ULSTR	Depth	Plugged On
<u>Subject Well</u> 30-015-34001	[225437] FINNEY OIL COMPANY	SAGUARO 28 STATE	#001	Gas	State	P&A-Rlsd	L-28-18S-28E	10860'	2/11/2010
<i>See attached CURRENT (P&A) and PROPOSED Wellbore Diagrams.</i>									
<u>Section 28 Wells</u>									
30-015-06125	[154329] SANDLOTT ENERGY (J. BREWER DBA)	WELCH DUKE STATE	#018	Oil	State	Active	C-28-18S-28E	2320'	
30-015-02090	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#014	Oil	State	P&A-Rlsd	E-28-18S-28E	2022'	1/1/1900
30-015-06173	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#013	Oil	State	P&A-Rlsd	E-28-18S-28E	2018'	1/1/1900
30-015-06124	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#017	Oil	State	P&A-Rlsd	E-28-18S-28E	2035'	1/1/1900
30-015-02088	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#011	Oil	State	P&A-Rlsd	F-28-18S-28E	2000'	1/1/1900
30-015-02083	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	State	P&A-Rlsd	F-28-18S-28E	2043'	1/1/1900
30-015-02080	[154329] SANDLOTT ENERGY (J. BREWER DBA)	WELCH DUKE STATE	#001	Oil	State	Active	F-28-18S-28E	2300'	
30-015-02081	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-Rlsd	F-28-18S-28E	2061'	1/1/1900
30-015-06108	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#026	Oil	State	P&A-Rlsd	G-28-18S-28E	2075'	1/1/1900
30-015-02094	[371169] GFG OPERATING LLC	TOOMEY ALLEN	#001	Oil	State	Active	J-28-18S-28E	2078'	
30-015-02095	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-Rlsd	J-28-18S-28E	2297'	1/1/1900
30-015-02078	[225437] FINNEY OIL COMPANY	TWIN LAKES	#013	Injection	State	P&A-Rlsd	K-28-18S-28E	2060'	12/10/2008
30-015-02064	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#004	Oil	State	P&A-Rlsd	K-28-18S-28E	2052'	1/1/1900
30-015-02060	[225437] FINNEY OIL COMPANY	TWIN LAKES	#005	Oil	State	Active	K-28-18S-28E	2493'	
30-015-02061	[225437] FINNEY OIL COMPANY	TWIN LAKES	#006	Oil	State	Active	K-28-18S-28E	2300'	
30-015-10624	[225437] FINNEY OIL COMPANY	TWIN LAKES	#011	Oil	State	Active	K-28-18S-28E	2074'	
30-015-06112	[225437] FINNEY OIL COMPANY	TWIN LAKES	#010	Oil	State	Active	L-28-18S-28E	2068'	
30-015-02059	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	State	P&A-Rlsd	L-28-18S-28E	2110'	1/1/1901
30-015-02063	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	State	P&A-Rlsd	L-28-18S-28E	2015'	1/1/1900
30-015-02066	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-Rlsd	M-28-18S-28E	Assm'd ~2100'	1/1/1901
30-015-02058	[225437] FINNEY OIL COMPANY	TWIN LAKES	#002	Oil	State	Active	M-28-18S-28E	2029'	
30-015-02062	[225437] FINNEY OIL COMPANY	TWIN LAKES	#007	Injection	State	Active	M-28-18S-28E	2050'	
30-015-02077	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#012	Oil	State	P&A-Rlsd	M-28-18S-28E	2041'	1/1/1900
30-015-06110	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#001	Oil	State	P&A-Rlsd	M-28-18S-28E	2036'	1/1/1901
30-015-10196	[225437] FINNEY OIL COMPANY	TWIN LAKES	#014	Oil	State	Active	M-28-18S-28E	2057'	
30-015-10198	[225437] FINNEY OIL COMPANY	TWIN LAKES	#015	Oil	State	Active	N-28-18S-28E	2083'	
30-015-02101	[225437] FINNEY OIL COMPANY	TWIN LAKES	#009	Oil	State	Active	N-28-18S-28E	2820'	

Section 29 Wells

30-015-02130	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	State	P&A-Rlsd	G-29-18S-28E	2060'	1/1/1900
30-015-06131	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#034	Oil	State	P&A-Rlsd	H-29-18S-28E	2100'	1/1/1900
30-015-02118	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#015	Oil	State	P&A-Rlsd	H-29-18S-28E	2050'	1/1/1901



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

Section 29 Wells (cont.)

30-015-02119	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#029	Oil	State	P&A-Rlsd	H-29-18S-28E	2032'	1/1/1900
30-015-02120	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#040	Oil	State	P&A-Rlsd	I-29-18S-28E	2047'	1/1/1901
30-015-10233	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#338	Oil	State	P&A-Rlsd	I-29-18S-28E	2043'	1/1/1900
30-015-02124	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#058	Oil	State	P&A-Rlsd	J-29-18S-28E	1986'	1/1/1900
30-015-02116	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#011	Oil	State	P&A-Rlsd	J-29-18S-28E	2040'	1/1/1901
30-015-02110	[154329] SANDLOTT ENERGY (J. BREWER DBA)	RESLER YATES STATE	#343	Oil	State	Active	O-29-18S-28E	2052'	
30-015-02117	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#012	Oil	State	P&A-Rlsd	P-29-18S-28E	2025'	1/1/1901
30-015-02121	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#048	Oil	State	P&A-Rlsd	P-29-18S-28E	2047'	1/1/1900
30-015-02115	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#008	Oil	State	P&A-Rlsd	P-29-18S-28E	2024'	1/1/1900
30-015-23393	[154329] SANDLOTT ENERGY (J. BREWER DBA)	RESLER YATES STATE	#344	Oil	State	Active	P-29-18S-28E	2066'	
30-015-02122	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#049	Oil	State	P&A-Rlsd	P-29-18S-28E	2052'	1/1/1900

Section 32 Wells

30-015-02147	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#028	Oil	State	P&A-Rlsd	A-32-18S-28E	3126'	1/1/1900
30-015-02148	[154329] SANDLOTT ENERGY (J. BREWER DBA)	RESLER YATES STATE	#355	Injection	State	Active	A-32-18S-28E	2064'	
30-015-02151	[154329] SANDLOTT ENERGY (J. BREWER DBA)	RESLER YATES STATE	#020	Oil	State	Active	A-32-18S-28E	2100'	

Section 33 Wells

30-015-02163	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#002	Oil	State	P&A-Rlsd	C-33-18S-28E	2700'	1/1/1900
30-015-02166	[225437] FINNEY OIL COMPANY	YATES	#004	Oil	State	Active	C-33-18S-28E	2110'	
30-015-02164	[225437] FINNEY OIL COMPANY	YATES	#001	Oil	State	Active	D-33-18S-28E	2050'	
30-015-02165	[214263] PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL	#003	Oil	State	P&A-Rlsd	D-33-18S-28E	2055'	1/1/1900

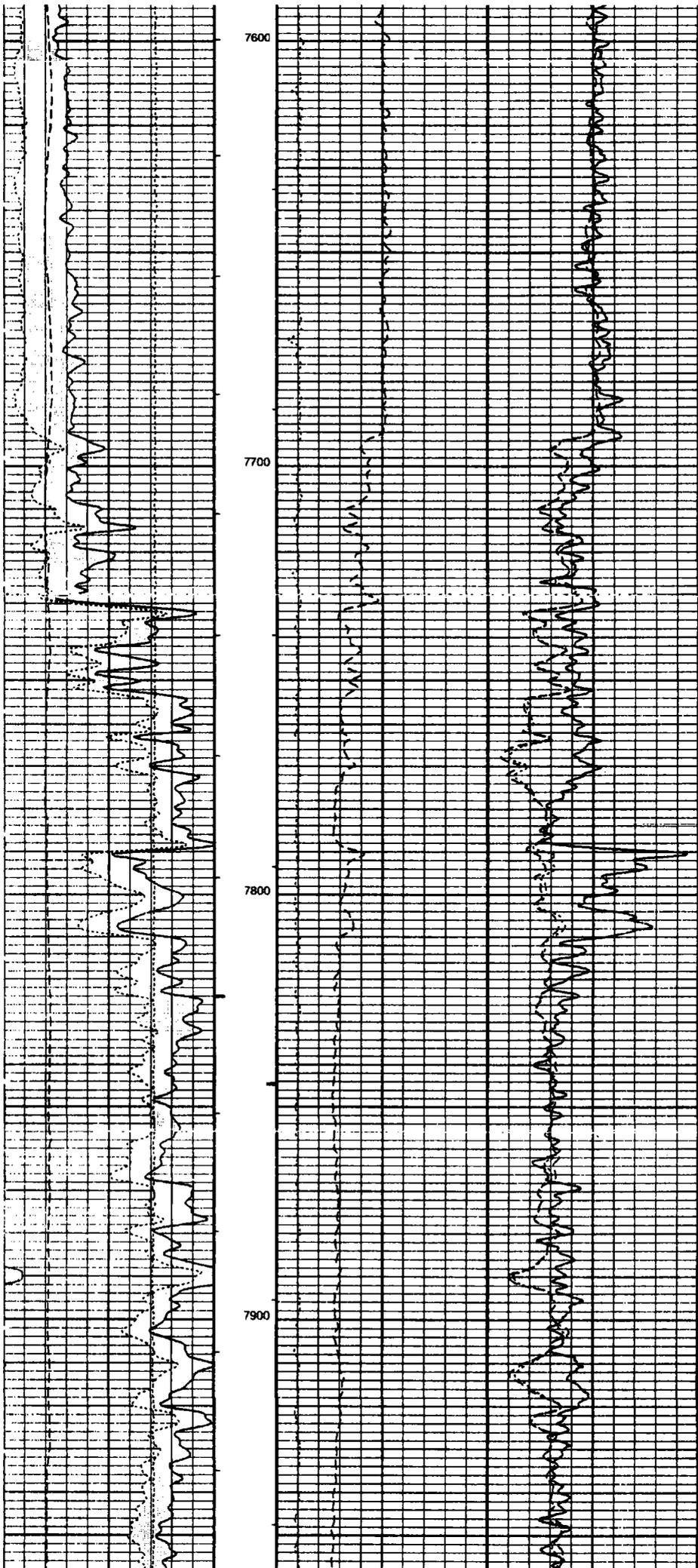
SUMMARY: 1 well penetrates proposed disposal interval; it is P&A'd.

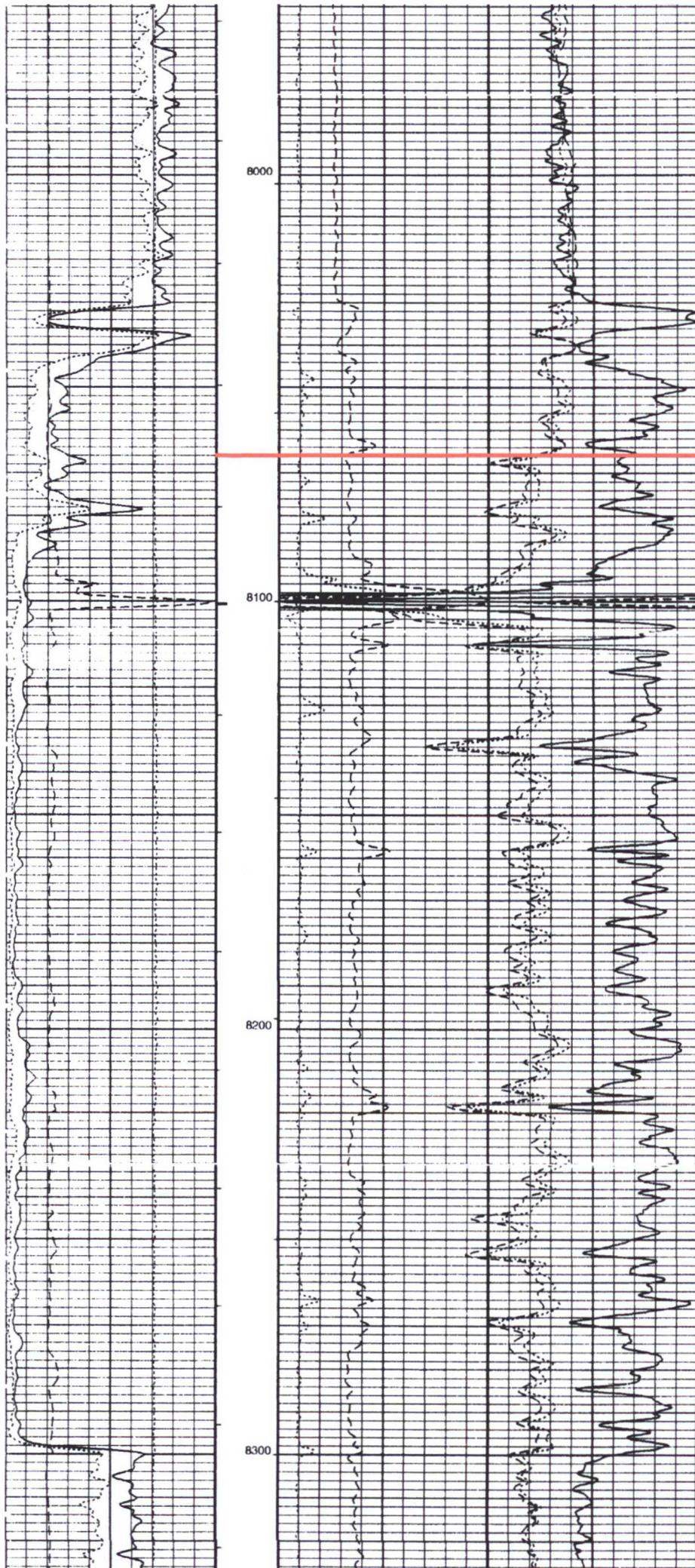


C-108 ITEM X – LOGS and AVAILABLE TEST DATA

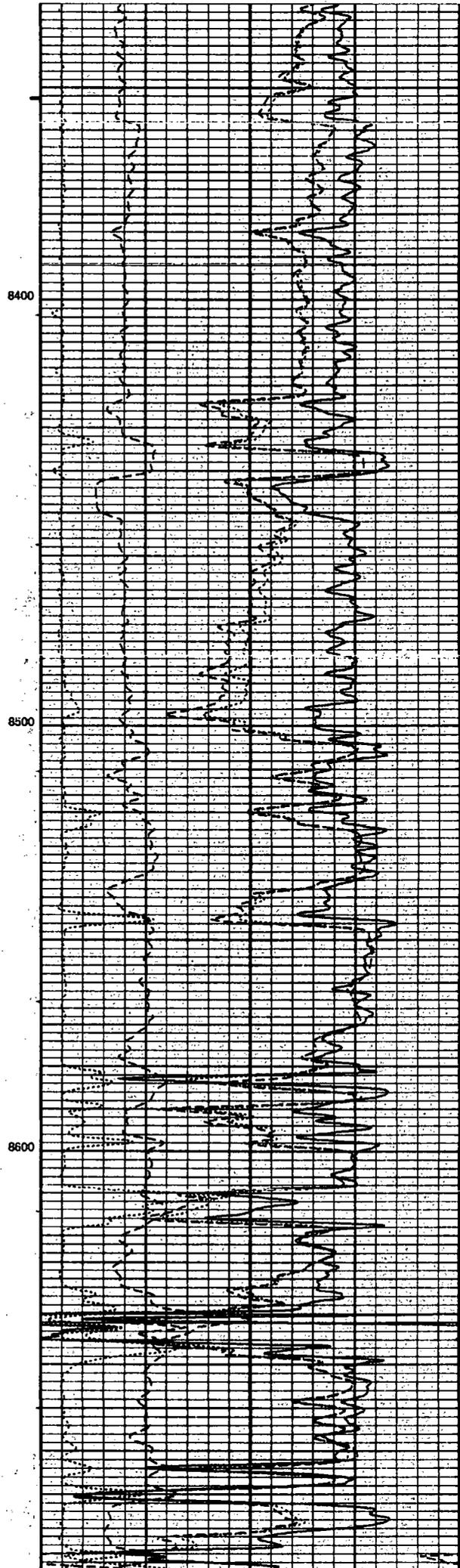
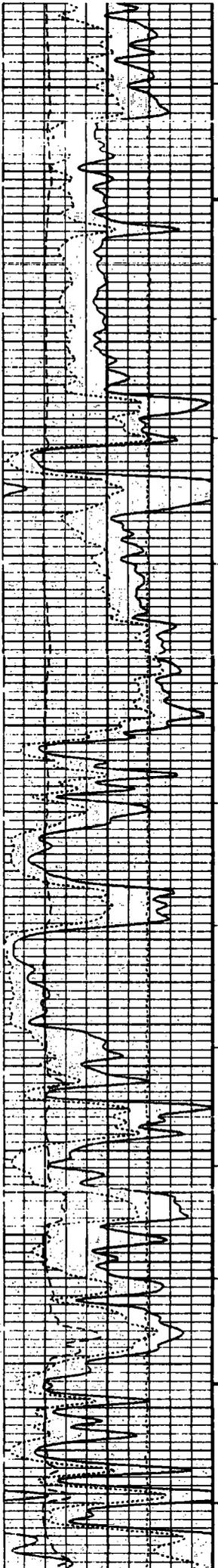
A log strip from subject well is attached.

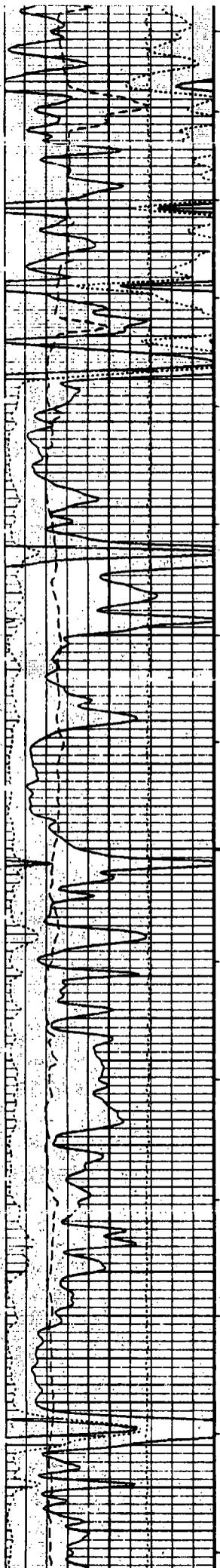
LOG STRIP FOLLOWS





TOP of
PROPOSED
INTERVAL

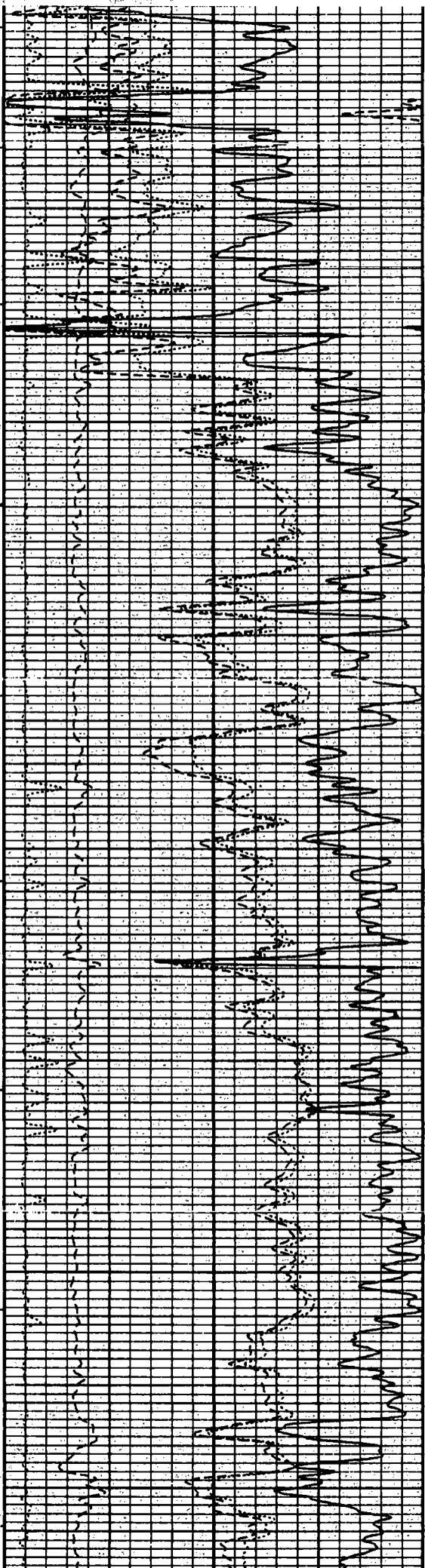


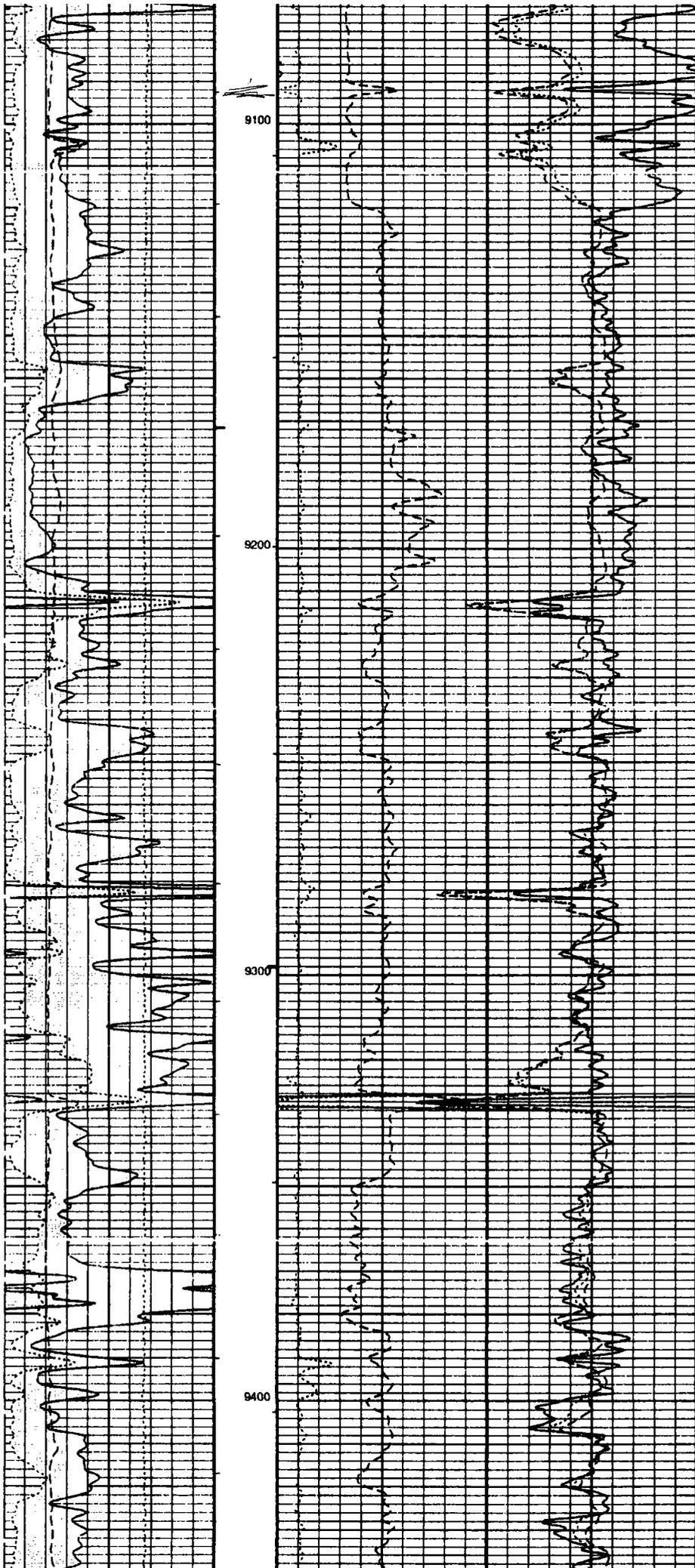


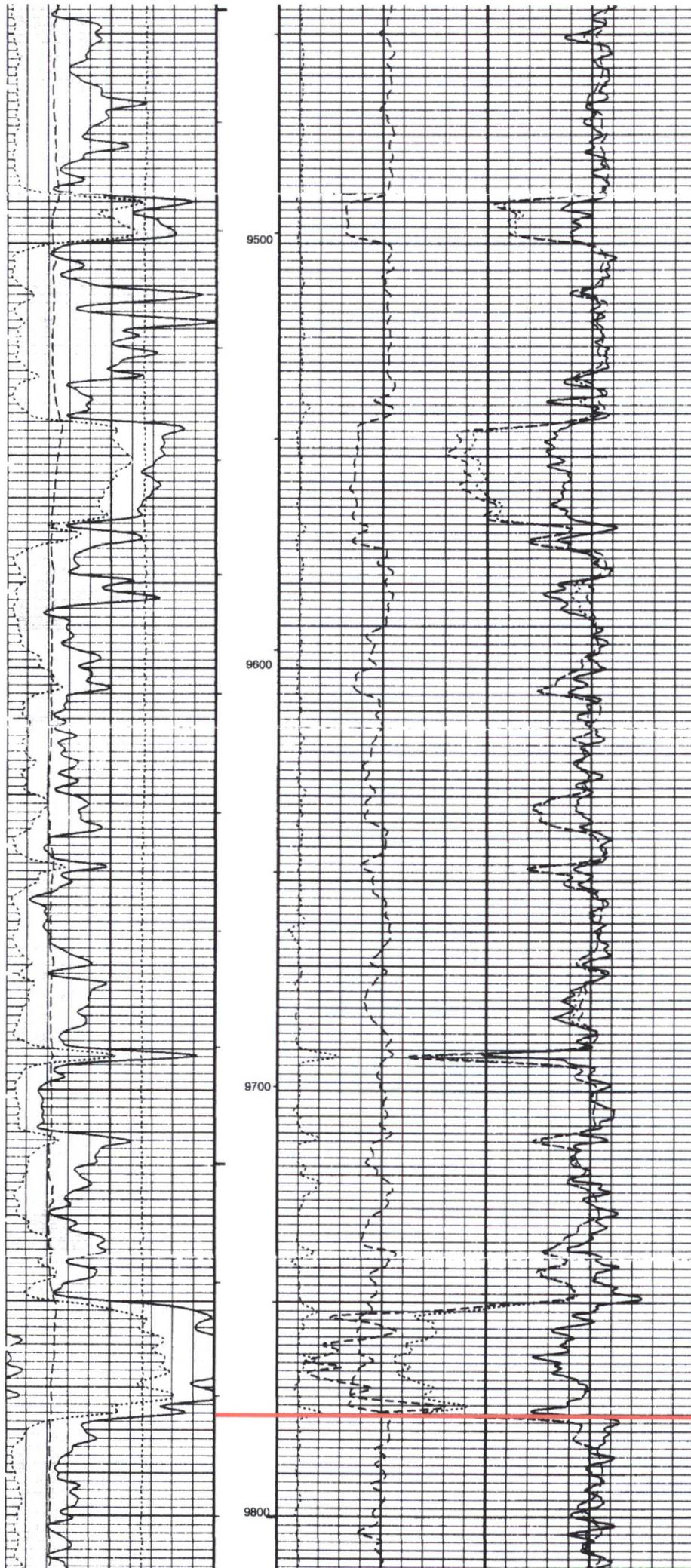
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8900

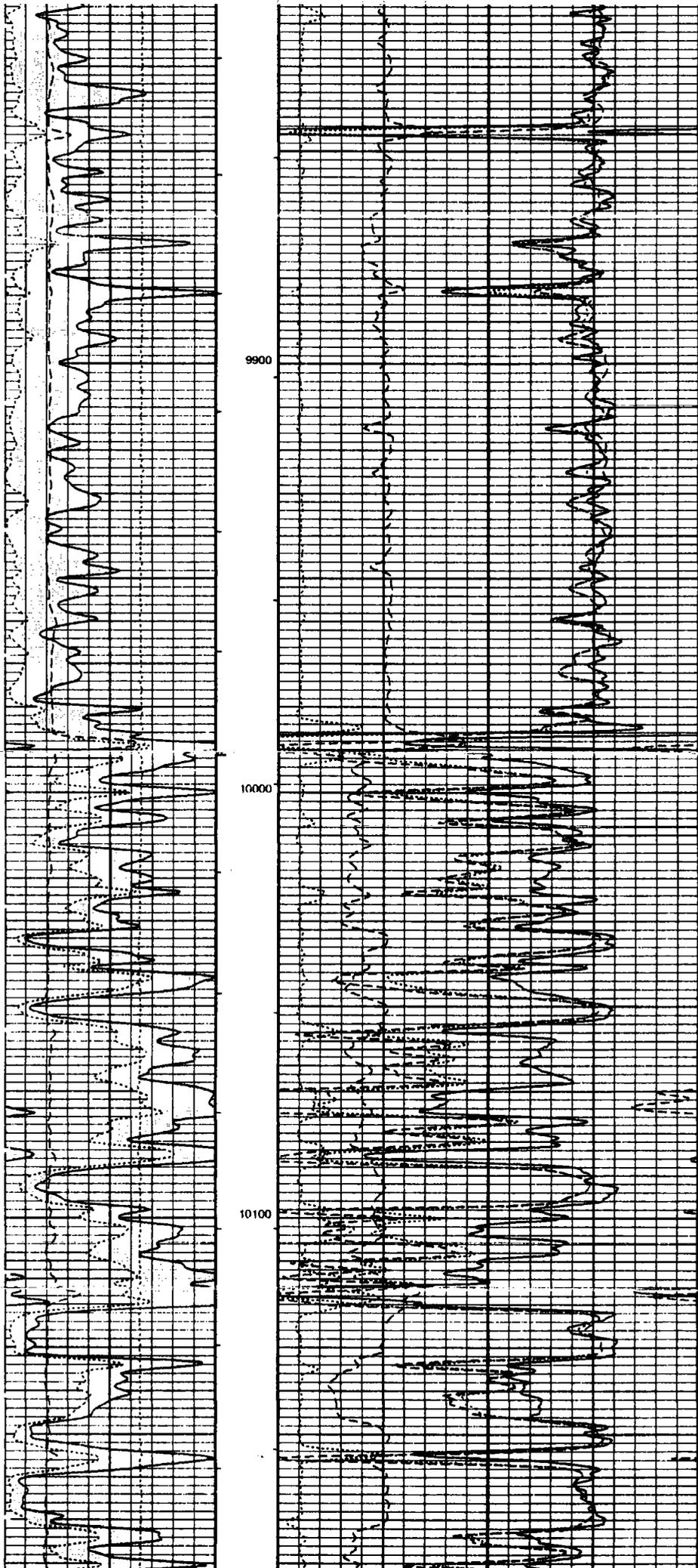
9000







BOTTOM of
PROPOSED
INTERVAL



Uranium Indicator	Stuck Stretch (STTT)	0.3	Std. Res. Density Porosity (DPHZ)	-0.1
	0 (F) 50		(V/V)	
Spectroscopy Gamma Ray Backup	Cable Drag From STIA to STTT	-0.05	Density Correction (HDRA) (G/C3)	0.45
Caliper (HCAL)	Tool/ Lot Drag From DST to STIA	0.3	Hilt Porosity CrossPlot (PKND HILT)	-0.1
	0 (IN) 10		(V/V)	
HNQS Computed Gamma Ray (MCGR)		0	Std. Res. Formation Pz (PEFZ)	-10
	(GAPI) 100		(---)	
Tension (TENS)		0.3	Env. Corr. Thermal Neutron Porosity (TNPH)	-0.1
	(LBF) 0		(V/V)	
HNQS Spectroscopy Gamma Ray (HGQR)		0		
	(GAPI) 100			

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

DLIS Name	Description	Value
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BH8	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DFB	HILT Nuclear Mud Base	Water
DHC	Density Hole Correction	BB
FD	Fluid Density	1.1 G/C3
FBAL	Formation Salinity	-50000 PPM
FSCD	Formation Salinity Correction Option	NO
GCBE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
HSCD	Hole Size Correction Option	YES
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
MCCO	Mud Cake Correction Option	NO
MCOR	Mud Correction	NATU
MDEH	Matrix Density	2.71 G/C3
MWCO	Mud Weight Correction Option	NO
NAAC	HRDD APS Activation Correction	OFF
NMT	HILT Nuclear Mud Type	BARITE
NPRM	HRDD Processing Mode	HIRes
NSAR	HRDD Depth Sampling Rate	1 IN
PTCO	Pressure/Temperature Correction Option	NO
SDAT	Standoff Data Source	SOCN
SHT	Surface Hole Temperature	82 DEG F
SOCN	Standoff Distance	0.125 IN
SOCO	Standoff Correction Option	YES
HRLT-B: High Resolution Laterolog Array - B		
BH8	Borehole Status	OPEN
GCBE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	82 DEG F
HNQS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNQS Detector 1 Barite Constant	1
BAR2	HNQS Detector 2 Barite Constant	1
BHK	HNQS Borehole Potassium Correction Concentration	0
BH8	Borehole Status	OPEN
CSB1	Inner Casing Outer Diameter	0 IN
CSB2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNQS Barite Constant Correction Flag	NONE
GCBE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
H1P	HNQS Detector 1 Allow/Diallow in Processing	ALLOW
H2P	HNQS Detector 2 Allow/Diallow in Processing	ALLOW
HABK	HNQS Borehole Potassium Running Average	0.00485086
HALF	HNQS Alpha Filter Length	60 IN
HCRB	HNQS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
HNPE	HNQS Processing Enable	YES
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
S1B1	HNQS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2B1	HNQS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNQS Standard Gamma-Ray Correction Flag	YES
SHT	Surface Hole Temperature	82 DEG F
TPCS	Tool Position	ECCE
VBA1	HNQS Detector 1 Variable Barite Factor Running Average	0.975029
VBA2	HNQS Detector 2 Variable Barite Factor Running Average	0.968175
HOLEV: Integrated Hole/Cement Volume		
BH8	Borehole Status	OPEN
FGD	Future Casing (Outer) Diameter	8.6 IN
GCBE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
HVCS	Integrated Hole Volume Caliper Selection	HCAL
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	82 DEG F
STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	TDL
STKT	STI Stuck Threshold	5 FT
TDD	Total Depth - Driller	10850.00 FT
TDL	Total Depth - Logger	10850.00 FT
System and Miscellaneous		
BS	SR Size	7.875 IN
BSAL	Borehole Salinity	140000.00 PPM
CSIZ	Current Casing Size	8.625 IN
CWEI	Casing Weight	32.00 LB/F
DFD	Drilling Fluid Density	10.10 LB/G
DORL	Depth Offset for Repeat Analysis	0.0 FT
MS	Mud Sample Temperature	91.90 DEG F
RMF8	Resistivity of Mud Filtrate Sample	0.0352 OHMM
TD	Total Depth	10850 FT

C-108 ITEM VII – PROPOSED OPERATION

The Saguaro 28 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 San Andres, Delaware and Morrow potential source waters and Wolfcamp and Penn proposed disposal formation waters - chlorides and TDS are relative compatible.)

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 1613 psi with rates limited only by that pressure but are not expected to be greater than approximately 1500 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

**San Andres
Delaware
Morrow**

Item VII.5 – Water Analysis of Disposal Zone Water

**Penn (Canyon)
Wolfcamp**

Water Analyses follow this page.

C-108 - Item VII.5

Water Analysis - Source Water - SAN ANDRES

B J Services Water Analysis

Artesia District Laboratory
(305)-748-3140

Date: 6-Nov-00 Test #:
 Company: SDX Resources Well #:
 Lease: Chalk Federal #2 County: Eddy
 State: N.M. Formation San Andres
 Depth: 2900 Source:

pH:	8.51	Temp (F):	84.3
Specific Gravity	1.12		

CATIONS	mg/l	meq/l	ppm
Sodium (calc.)	64602	2370.7	48862
Calcium	3208	160.1	2864
Magnesium	1459	120.0	1302
Barium	< 25	---	---
Potassium	< 10	---	---
Iron	3	0.1	2

ANIONS	mg/l	meq/l	ppm
Chloride	93000	2823.4	83036
Sulfate	1071	22.3	957
Carbonate	< 1	---	---
Bicarbonate	878	14.4	784
Total Dissolved Solids (calc.)	154120		137607
Total Hardness as CaCO3	14014	280.0	12513

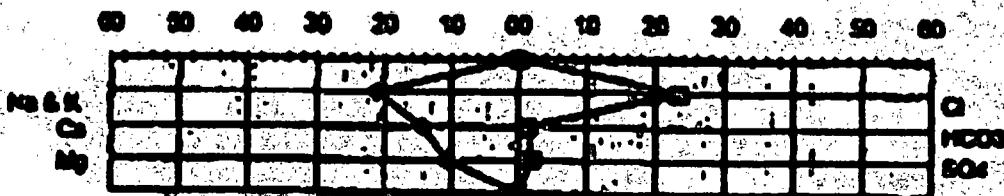
COMMENTS:

Res = 0.0847 @ 81.1 deg.

SCALE ANALYSIS:

CaCO3 Factor 2817907 Calcium Carbonate Scale Probability -> Probabl
 CaSO4 Factor 3848600 Calcium Sulfate Scale Probability -> Remote

SDS Plot



C-108 - Item VII.5

Water Analysis - Source Water - DELAWARE



Water Analysis

Date: 11-Jan-05

2788 West County Road, Hobbs NM 88240
 Phone (505) 392-3336 Fax (505) 392-7387

B.S.

Analyzed For

Devon	Spud 16 State #1	Lee	New Mexico
-------	------------------	-----	------------

Sample Source	Sample	Sample #	1
Formation		Depth	

Specific Gravity	1.185	SG @ 60 °F	1.185
pH	8.88	Sulfides	Absent
Temperature (°F)	65	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	73,885	in PPM	61,880
Calcium	in Mg/L	34,800	in PPM	28,428
Magnesium	in Mg/L	5,040	in PPM	4,214
Soluble Iron (FE2)	in Mg/L	50.8	in PPM	42

Anions

Chlorides	in Mg/L	188,000	in PPM	157,191
Sulfates	in Mg/L	690	in PPM	460
Bicarbonates	in Mg/L	78	in PPM	65
Total Hardness (as CaCO3)	in Mg/L	188,000	in PPM	88,620
Total Dissolved Solids (Calc)	in Mg/L	391,783	in PPM	252,260
Equivalent NaCl Concentration	in Mg/L	254,733	in PPM	212,958

Scaling Tendencies

*Calcium Carbonate Index 2,854,720

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 18,700,000

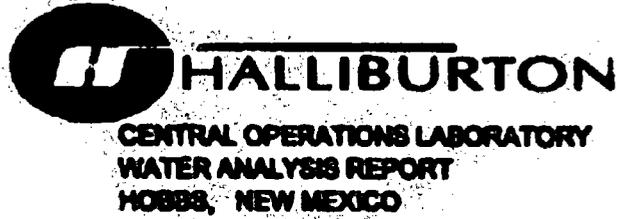
Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks NW-040@63f

C-108 - Item VII.5

Water Analysis - Source Water - MORROW



COMPANY Morco

REPORT DATE W02-128
June 18, 2002
 DISTRICT Hobbs

SUBMITTED BY Jm Trola

WELL Ruger SL #1 DEPTH _____ FORMATION SOURCE _____
 COUNTY _____ FIELD _____

SAMPLE Morrow Prod. Water

Sample Temp.	<u>84</u>	_____	_____	_____
RESISTIVITY	<u>0.13</u>	_____	_____	_____
SPECIFIC GR.	<u>1.040</u>	_____	_____	_____
pH	<u>6.93</u>	_____	_____	_____
CALCIUM	<u>4.900</u>	_____	_____	_____
MAGNESIUM	<u>6.300</u>	_____	_____	_____
CHLORIDE	<u>34.863</u>	_____	_____	_____
SULFATES	<u>6.971</u>	_____	_____	_____
BICARBONATES	<u>18</u>	_____	_____	_____
SOLUBLE IRON	<u>0</u>	_____	_____	_____
Sodium	_____	<u>0</u>	<u>0</u>	<u>0</u>
TDS	_____	<u>0</u>	<u>0</u>	<u>0</u>
OIL GRAVITY	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

REMARKS _____

MPL = Milligrams per liter
 Resitivity measured in: Ohm-cm

This report is the property of Halliburton Company and neither this report nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management. It may however, be used in the course of regular business operations by any person or persons and employees thereof receiving such report from Halliburton Co.

ANALYST: Miss Armstrong

C-108 - Item VII.5

Water Analysis - Disposal Zone



Water Analysis

Date: 2/24/2005

2401 Sivley, Artesia NM 88210
 Phone (505) 746-3140 Fax (505) 746-2293

Analyzed For

Company	Well Name	County	State
Westall	State G#1	Eddy	New Mexico

Sample Source

Sample # 1

Formation

Canyon

Depth

Specific Gravity	1.050	SG @ 60 °F	1.051
pH	6.90	Sulfides	Not Tested
Temperature (°F)	65	Reducing Agents	Not Tested

Cations

Sodium (Calc)	in Mg/L	9,518	in PPM	9,056
Calcium	in Mg/L	5,600	in PPM	5,328
Magnesium	in Mg/L	240	in PPM	228
Soluble Iron (FE2)	in Mg/L	300.0	in PPM	285

Anions

Chlorides	in Mg/L	24,000	in PPM	22,835
Sulfates	in Mg/L	2,000	in PPM	1,903
Bicarbonates	in Mg/L	186	in PPM	178
Total Hardness (as CaCO3)	in Mg/L	15,000	in PPM	14,272
Total Dissolved Solids (Calc)	in Mg/L	41,844	in PPM	39,813
Equivalent NaCl Concentration	in Mg/L	38,410	in PPM	36,546

Scaling Tendencies

*Calcium Carbonate Index **1,038,464**

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index **11,200,000**

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks FAX 877-2281

C-108 – Item VII.5
Water Analysis – Disposal Zone – Wolfcamp

WATER ANALYSIS REPORT

Lab ID No. : Analysis Date: June 9, 1992

Company : B.T.A Oil Production
 Field : Corbin, Wolfcamp, South
 Lease/Unit : French
 Well ID. : 1
 Sample Loc.: Well Head

Sampled By : Pro - Kem
 Sample Date: 5/28/92
 Salesperson: Curtis Baze
 Formation : Wolfcamp
 Location : SE/SE, Sec 24, T18S, R32E

.....

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca ⁺⁺	7,699	385	Hydroxyl as OH-	0	0
Magnesium as Mg ⁺⁺	1,895	155	Carbonate as CO ₃ =	0	0
Sodium as Na ⁺ (Calc)	52,740	2,293	Bicarbonate as HCO ₃ -	180	3
Barium as Ba ⁺⁺	Not Determined		Sulfate as SO ₄ -	500	10
Oil Content	0		Chloride as Cl-	99,977	2,820

Total Dissolved Solids, Calculated: 162,993 mg/L.

.....

Calculated Resistivity: 0.062 ohm-meters pH: 7.000
 mg/L. Hydrogen Sulfide: 0 Specific Gravity 60/60 F.: 1.118
 mg/L. Carbon Dioxide: 120 Saturation Index @ 80 F.: +0.435
 mg/L. Dissolved Oxygen: Not Determined @ 140 F.: +1.340

Total Hardness: 27,000 mg/L. as CaCO₃
 Total Iron: 5.00 mg/L. as Fe⁺⁺

.....

	ESTIMABLE MINERAL COMPOSITION	
	MG/L	MEQ/L
Ca(HCO ₃) ₂	240	3.0
CaSO ₄	709	10.4
CaCl ₂	20,623	371.6
Mg(HCO ₃) ₂	0	0.0
MgSO ₄	0	0.0
MgCl ₂	7,398	155.4
NaHCO ₃	0	0.0
Na ₂ SO ₄	0	0.0
NaCl	134,052	2,293.1

Calcium Sulfate Scaling Potential
 Not Present

Estimated Temperature of Calcium
 Carbonate Instability is
 61 F.

Craig S. Sauer
 Analyst 01:54 PM

C-108 - Item VIII

Geological Data

The Wolfcamp is a light gray-brown fine to medium crystalline fossiliferous limestone with inter-crystalline vugular porosity interbedded with gray shale. Additional porosity can be found when the well bore encounters detrital carbonates which were shed off shelf and foreslope areas and transported down the Wolfcamp paleoslope.

The Penn formation (Cisco/Canyon) similar to the Wolfcamp, is a gray micritic (fine grained) fossiliferous limestone with vugular porosity. The reservoirs in this area are usually limited in size with up dip porosity loss due to shelf margin carbonate build up.

The Strawn consists of thin beds of isolated biohermal limestone and generally ranges from 200 to 500 feet thick and limited in areal extent. The porosity zones in these formations can be limited, averaging 2% to 9% but permeability can be fairly high.

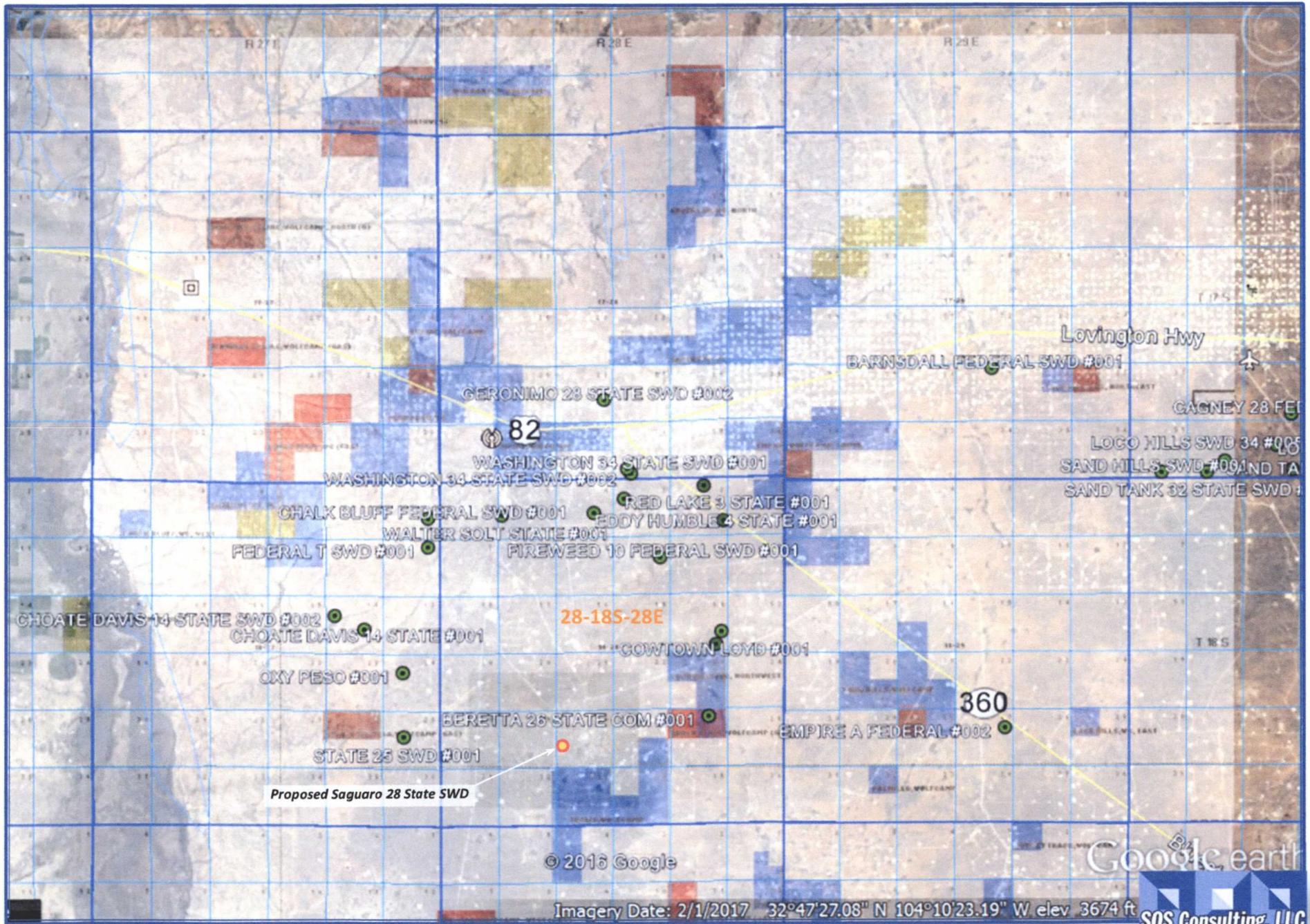
The combined zones offer good porosity in the proposed injection interval located from 7334' to 9324' with very good porosity interspersed throughout the overall interval.

The Wolfcamp is overlain by the Bone Spring and the Strawn is underlain by the Atoka.

Fresh water in the area is generally available from the Santa Rosa formation (Capitan Basin). Based on State Engineer's records for a water well in Twp 18S, Rng 28E, groundwater is at a depth to water of 300 feet or greater.

The one water well indicated as located within one mile of the proposed SWD could not be found.

AERIAL VIEW WITH WOLFCAMP POOL MAP OVERLAY AND EXISTING WOLFCAMP SWDs



(Note: Pool Image Overlay for Reference Only - Registration is Approximate.)

C-108 - Item XI

Water Wells Within One Mile

AFFIRMATIVE STATEMENT

State Engineer's records indicate that there is one water well located in the NW/NE Qtr of Section 33 based on the lat/long coordinates provided. I relayed this information along with a map to Mr. Donnie Mathews, Superintendent of Ray Westall Operating, Inc. so that a water sample could be obtained and analysis conducted. The map showed the well should be located just off a road.

On April 17, 2017, Mr. Mathews conducted a foot search of area and found no evidence of an operating or a plugged water well as indicated on the map and determined that if the well had existed, it must have been plugged out and there is no indication at surface that would confirm its existence.

This information was relayed to me by Mr. Mathews via a telephone conversation on 4/17/2017.


Ben Stone



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

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)						
									Source	4	3	2	1		
RA 08238	STK	1.47	BOGLE FARMS		ED	RA 08238			21	18S	28E	576766	3621980		
RA 08240	STK	1.52	BOGLE FARMS		ED	RA 08240			32	18S	28E	575220	3618733		
RA 09588	DOM	0	MARATHON OIL COMPANY		ED	RA 09588			1	2	33	18S	28E	576976	3619384

Record Count: 3

PLSS Search:

Section(s): 20, 21, 28, 29, Township: 18S Range: 28E
32, 33

Sorted by: File Number

*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.

4/14/17 12:30 PM

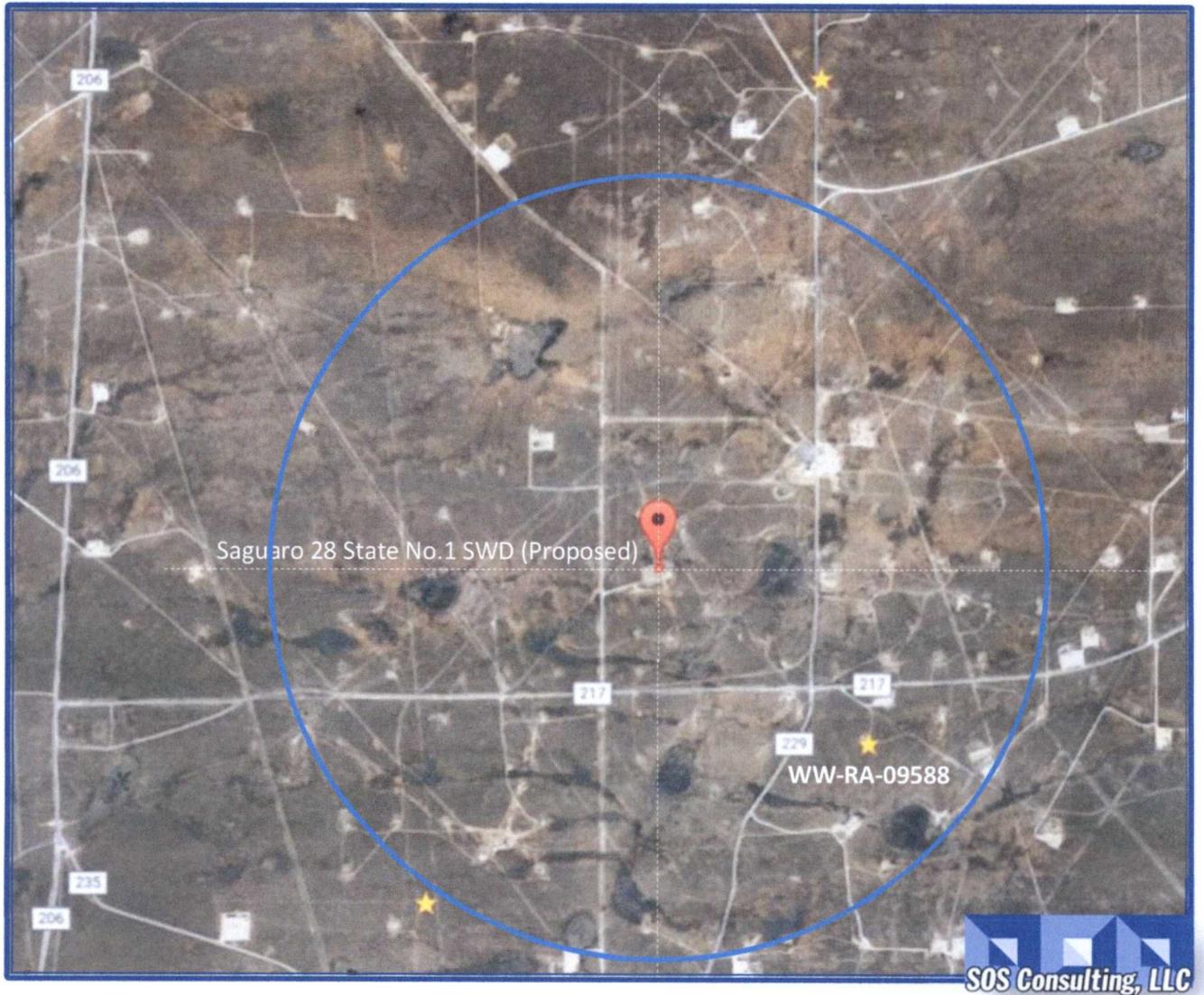
Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION

C-108 Item XI

Water Wells Within One Mile

One well (RA-09588) is shown to be within one mile of the proposed SWD...



This aerial map was provided to RWO personnel so that the subject water wells could be sampled. Despite the reported location to be clearly very near a road, a foot search on 4/17/17 was not successful in locating the well or any signs of its existence.

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.
Saguaro 28 State No.1 SWD
Reviewed 4/11/2017

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

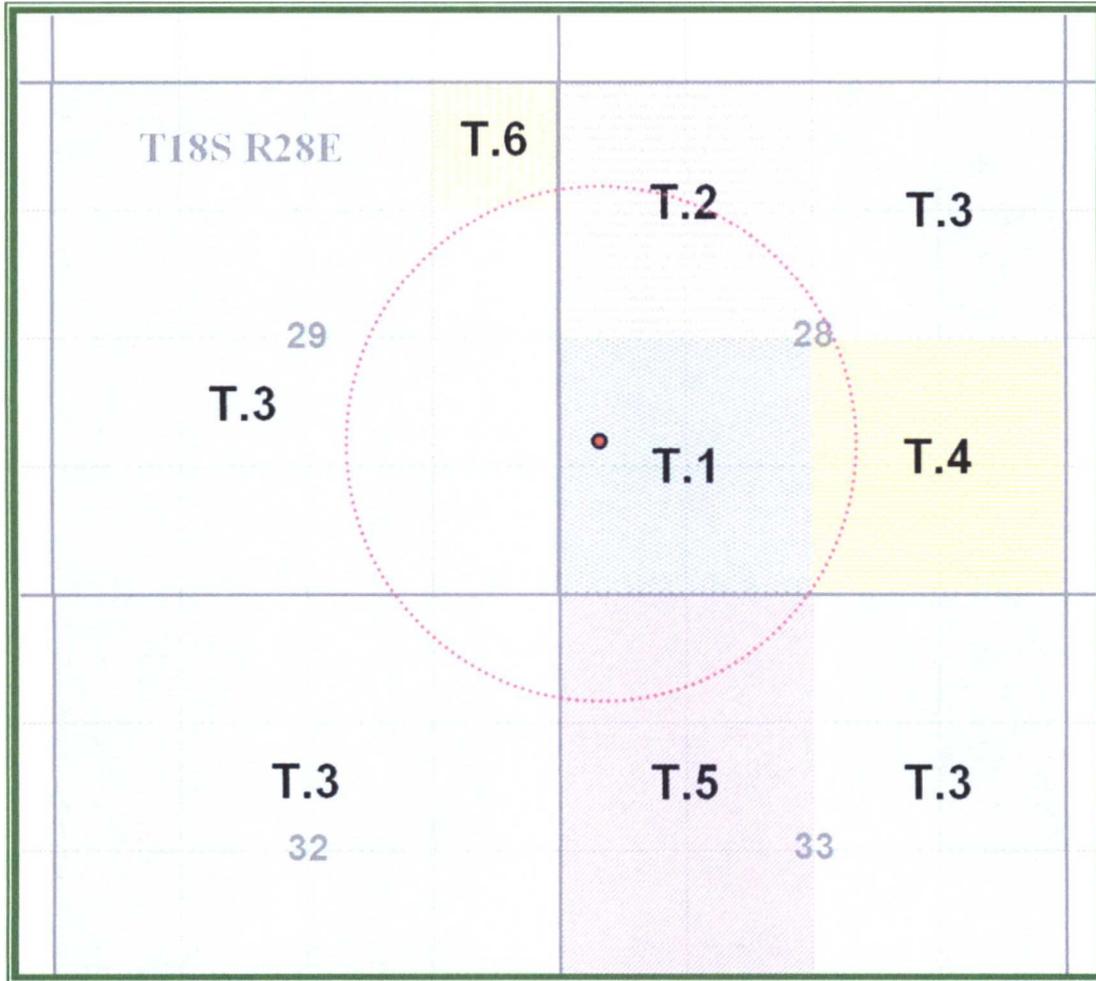
List of Interested Parties

Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Saguaro 28 State Well No.1 SWD - Leasehold Plat
 (Attachment to NMOCD Form C-108, Application for Authority to Inject.)



RAY WESTALL OPERATING, INC.

LEGEND

- T.1 – X0-0647-0409 – ZPZ Delaware, LLC
- T.2 – X0-0647-0372 – Hanagan & Hanagan
- T.3 – X0-0647-0405 – Khody Land & Minerals Company
- T.4 – X0-0647-0141 – Marathon Oil Company
- T.5 – X0-0694-0020 – Alvrone Sater
- T.6 – B0-6811-0016 – Laura Jones & Paul Slayton

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST**

SURFACE OWNER

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

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

State Lease X0-0647-0409 (T.1 on plat.)

Lessee/Operator

- 1 ZPZ DELAWARE, LLC
Attn: Peggy Clark
2000 Post Oak Blvd., Ste.100
Houston, TX 77056

Operators

- 2 FINNEY OIL COMPANY
P.O. Box 1569
Artesia, NM 88211
- 3 GFG OPERATING, LLC
4701 Teakwood Trace
Midland, TX 79707

State Lease X0-0647-0372 (T.2 on plat.)

Lessee

- 4 HANAGAN & HANAGAN
P.O. Box 1737
Roswell, NM 88201

Operator

- 5 SANDLOTT ENERGY
P.O. Box 711
Lovington, NM 88260

State Lease X0-0647-0405 (T.3 on plat.)

Lessee

- 6 KHODY LAND AND MINERALS COMPANY
210 Park Avenue, Ste., 900
Oklahoma City, OK 73102

Operator

SANDLOTT ENERGY
P.O. Box 711
Lovington, NM 88260

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

State Lease X0-0647-0141 (T.4 on plat.)

Lessee

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

State Lease X0-0694-0020 (T.5 on plat.)

Lessee

- 8 ALVRONE SATER
4700 1ST City Circle
1700 Pacific Ave.
Dallas, TX 75201

Operator

FINNEY OIL COMPANY
P.O. Box 1569
Artesia, NM 88211

State Lease B0-6811-0016 (T.6 on plat.)

Lessee

- 9 LAURA JONES & PAUL SLAYTON
P.O. Box 2035
Roswell, NM 88201

Operator

SANDLOTT ENERGY
P.O. Box 711
Lovington, NM 88260

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



April 20, 2017

NOTIFICATION TO INTERESTED PARTIES
via U.S. Certified Mail

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 convert for salt water disposal the Saguaro 28 State Well No.1. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 28, Township 18 South, Range 28 East in Eddy County, New Mexico.

The published notice states that the interval will be from 8066 feet to 9766 feet.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about April 19, 2017.

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 Saguaro State 28 Well No.1. The well, API No.30-015-34001 is located 1606 FSL & 518 FWL in Section 28, Township 18 South, Range 28 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Wolfcamp, Penn and Strawn formations through selected perforated intervals between a maximum applied for top of 8066 feet to maximum depth of 9766 feet and based on further log analysis. Maximum injection pressure will be 1613 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 on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone". The signature is fluid and cursive, with the first name "Ben" and last name "Stone" clearly distinguishable.

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

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7015 0640 0007 9482 6643

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Certified Mail Fee \$
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 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$
Total Postage and Fees \$ **6.59**

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 Street at
 City, Sta
 PS Form

ZPZ DELAWARE, LLC
 Attn: Peggy Clark
 2000 Post Oak Blvd., Ste. 100
 Houston, TX 77056

Postmark Here
APR 21 2017

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9E99 6928 9482 6639

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 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$ **49**
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 Street at
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FINNEY OIL COMPANY
 P.O. Box 1569
 Artesia, NM 88211

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USPS

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 Extra Services & Fees (check box, add fee as appropriate)
 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$
Total Postage and Fees \$ **6.59**

Sent To
 Street at
 City, Sta
 PS Form

GFG OPERATING, LLC
 4701 Teakwood Trace
 Midland, TX 79707

Postmark Here
APR 21 2017

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Certified Mail Fee \$
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 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$
Total Postage and Fees \$ **6.59**

Sent To
 Street at
 City, Sta
 PS Form

HANAGAN & HANAGAN
 P.O. Box 1737
 Roswell, NM 88201

Postmark Here
APR 21 2017

USPS

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts - cont.)

7015 0640 0007 9482 6582
7015 0640 0007 9482 6575
7015 0640 0007 9482 6575

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Certified Mail Fee	\$	Postmark APR 21 2017 USPS
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<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	\$ 6.59	

Sent To

Street and A
City, State

SANDLOTT ENERGY
P.O. Box 711
Lovington, NM 88260

PS Form 3800, June 2012

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Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<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	\$ 6.59	

Sent To

Street and A
City, State

MARATHON OIL COMPANY
P.O. Box 2069
Houston, TX 77252-2069

PS Form 3800, June 2012

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Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<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	\$ 6.59	

Sent To

Street and A
City, State

KHODY LAND & MINERALS CO.
210 Park Avenue, Ste.900
OKC, OK 73102

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Certified Mail Fee	\$	Postmark APR 21 2017 USPS
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<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	\$ 6.59	

Sent To

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City, State

ALVRONE SATER
4700 1ST City Circle
1700 Pacific Ave.
Dallas, TX 75201

PS Form 3800, June 2012

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Certified Mail Fee	\$	Postmark APR 21 2017 USPS
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<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	\$ 6.59	

Sent To

Street and A
City, State

LAURA JONES & PAUL SLAYTON
P.O. Box 2035
Roswell, NM 88201

PS Form 3800, June 2012

Affidavit of Publication

No. 24272

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn says that she 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	April 19, 2017
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	

Subscribed and sworn before me this

20th day of April 2017



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019

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 Saguaro State 28 Well No.1. The well, API No.30-015-34001 is located.1606 FSL & 518 FWL in Section 28, Township 18 South, Range 28 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Wolfcamp, Penn and Strawn formations through selected perforated intervals between a maximum applied for top of 8066 feet to maximum depth of 9776 feet and based on further log analysis. Maximum injection pressure will be 1613 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.

Published in the Artesia Daily Press, Artesia, N.M., April 19, 2017. Legal No. 24272.

McMillan, Michael, EMNRD

From: ben@sosconsulting.us
Sent: Wednesday, April 26, 2017 1:29 PM
To: McMillan, Michael, EMNRD
Subject: RE: Ray Westall Operating, Inc. Saguaro 28 State SWD Well No.1

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST**

SURFACE OWNER

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

Did this not make it through in the application package on your desk?

If not, let me know and I can send you a PDF of the whole thing.

Thanks,
Ben



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

This electronic message and all attachments are confidential, and are intended only for the use of the individual to whom it is addressed; information may also be legally privileged. This transmission is sent in trust for the sole purpose of delivery to the intended recipient. If you have received this transmission in error, you are hereby notified that any use, dissemination, distribution or reproduction of this transmission is strictly prohibited and may be unlawful. If you are not the intended recipient, you must delete this message and any copy of it (in any form) without disclosing it. If this message has been sent to you in error, please notify the sender by replying to this transmission, or by calling SOS Consulting, LLC. 903-488-9850. Unless expressly stated in this e-mail, nothing in this message should be construed as a digital or electronic signature. Thank you for your cooperation.

----- Original Message -----

Subject: RE: Ray Westall Operating, Inc. Saguaro 28 State SWD Well No.1
From: "McMillan, Michael, EMNRD" <Michael.McMillan@state.nm.us>
Date: 4/26/17 1:53 pm
To: "ben@sosconsulting.us" <ben@sosconsulting.us>

Who is the surface owner

From: ben@sosconsulting.us [mailto:ben@sosconsulting.us]
Sent: Wednesday, April 26, 2017 12:51 PM

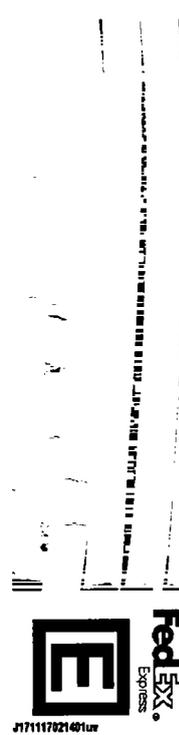
UNION I.D. ITM (903) 400-9030
BENJAMIN STONE
SOS CONSULTING, LLC
1950 CR 2331
COMO, TX 75431
UNITED STATES US

SHIP DATE: 03/27/11
ACT WT: 0.50 LB
CAD: 100120607/NET3850
BILL SENDER

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

SANTA FE NM 87501
REF: RWO - SAGUARO 28 STATE SWD
DEPT.
PO.
NV
NV
(505) 827-5791

546.02/CFD6.53C1



TRK# 7789 8617 4950
0201

THU - 27 APR 4:30P
** 2DAY **

SX SAFA
87501
NM-US ABQ



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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1. Article Addressed to:

FINNEY OIL COMPANY
P.O. Box 1569
Artesia, NM 88211
Saguaro

9590 9402 1356 5285 2670 64

2. Article Number (Transfer from service label)

7015 0640 0007 9482 6636

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
 X *Mary Finney*
 B. Received by (Printed Name) *MARY FINNEY* C. Date of Delivery *4/24/2017*
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:



3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |



S/K

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARATHON OIL COMPANY
P.O. Box 2069
Houston, TX 77252-2069
Saguaro

9590 9403 0195 5120 3969 07

2. Article Number (Transfer from service label)

7015 0640 0007 9482 6605

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
 X *Marcos Camery*
 B. Received by (Printed Name) *MARCOS CAMERY* C. Date of Delivery *4-27-17*
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |

CERTIFIED MAIL

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ALVRONF SATFR 4700 1ST

RETURN RECEIPT REQUESTED

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

HANAGAN & HANAGAN
P.O. Box 1737
Roswell, NM 88201
Saguaro

9590 9403 0195 5120 3969 14

2. Article Number (Transfer from service label)

7015 0640 0007 9482 6612

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
 X *Anna Marie Spake*
 B. Received by (Printed Name) *ANNA MARIE SPAKE* C. Date of Delivery *4/12/2017*
 D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:



3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |



Team of Quality Service

P.O. Box 300 CoMo, TX 75431

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt



Years of
Quality Service

CERTIFIED MAIL

7015 0640 0007 9482 6575



UNITED STATES POSTAGE
PITNEY DOWES
02 1P \$ 006.590
0004702725 APR 21 2017
MAILED FROM ZIP CODE 75431

S/K

**RETURN RECEIPT
REQUESTED**

ALVRONF SATER
4700 1ST
1700 Pax NIXIE
Dallas, T

750 DE 1 0005/10/17

RETURN TO SENDER
INSUFFICIENT ADDRESS
UNABLE TO FORWARD

IA
75431030000
7520187982000822

BC: 75431030000 *0334-11096-21-45



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ALVRONE SATER
4700 1ST City Circle
1700 Pacific Ave.
Dallas, TX 75201
Saguaro

9590 9403 0195 5120 3968 08

2. Article Number (Transfer from service label)

7015 0640 0007 9482 6575

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

Goetze, Phillip, EMNRD

From: Holm, Anchor <aholm@slo.state.nm.us>
Sent: Tuesday, May 2, 2017 12:10 PM
To: Goetze, Phillip, EMNRD
Cc: Martin, Ed; Warnell, Terry G.; Khalsa, Niranjn K.
Subject: Ray Westhall Operating, Inc.- Saguaro 28 State #1 SWD: SLO Concerns
Attachments: Saguaro 28 State #1 - GIS Map marked by AH.pdf

Phil,

On April 27, 2017, the State Land Office received the C-108 Application by Ray Westhall Operating, Inc. to ReEnter the Saguaro 28 State #1 (30-015-34001) P&A'd well (located in L-28-18S-28E, Eddy County) and convert it to SWD into the Wolfcamp-Penn-Strawn from a depth of **8066' to 9766'**.

The Hondo Sinclair Com #1 (30-015-23703), located about ½ mile to the northeast of the proposed SWD, is an active oil well producing from the Penn with perforations at **9392'-9494'**. This well also tested oil and gas in the Wolfcamp from **8571'-8627'**. This well also tested gas from the Atoka at **10,114'-10120'**. Thus, the State Trust has proven oil and gas minerals in these three zones in the vicinity of this proposed SWD well on State Trust Lands.

The State Land Office concerns are damages to trust minerals. Using a 300' vertical buffer around each of these oil and gas zones leaves little intervals within the requested SWD from 8066' to 8271' and 8927' to 9092'. Below the requested SWD interval, the zones from 9794' to 9814' and below 10,918' of depth appear to be potential SWD intervals without State Land Trust mineral conflicts. See attached GIS map marked with data.

The State Land Office believes in order to protect our minerals that this application should be reduced to the intervals of **8066'-8271'** and **8927'-9092'**, or preferably deepened to **below a depth of 10,918'**.

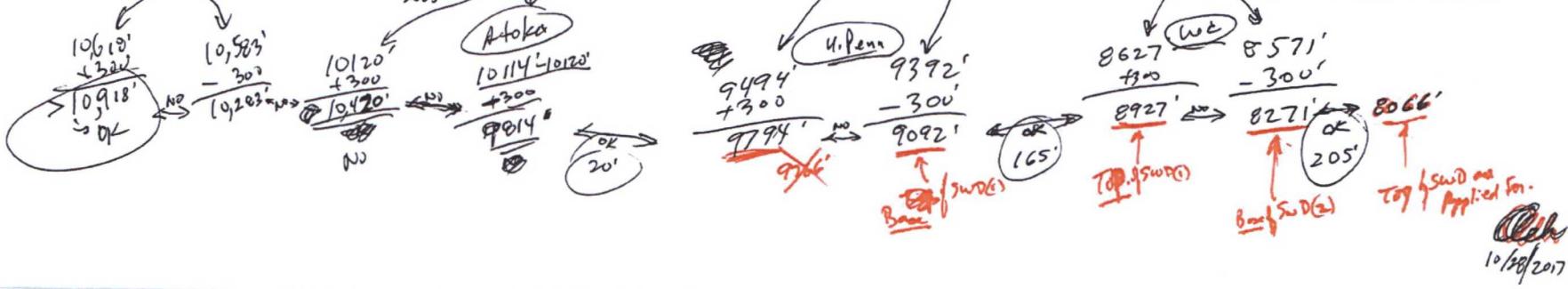
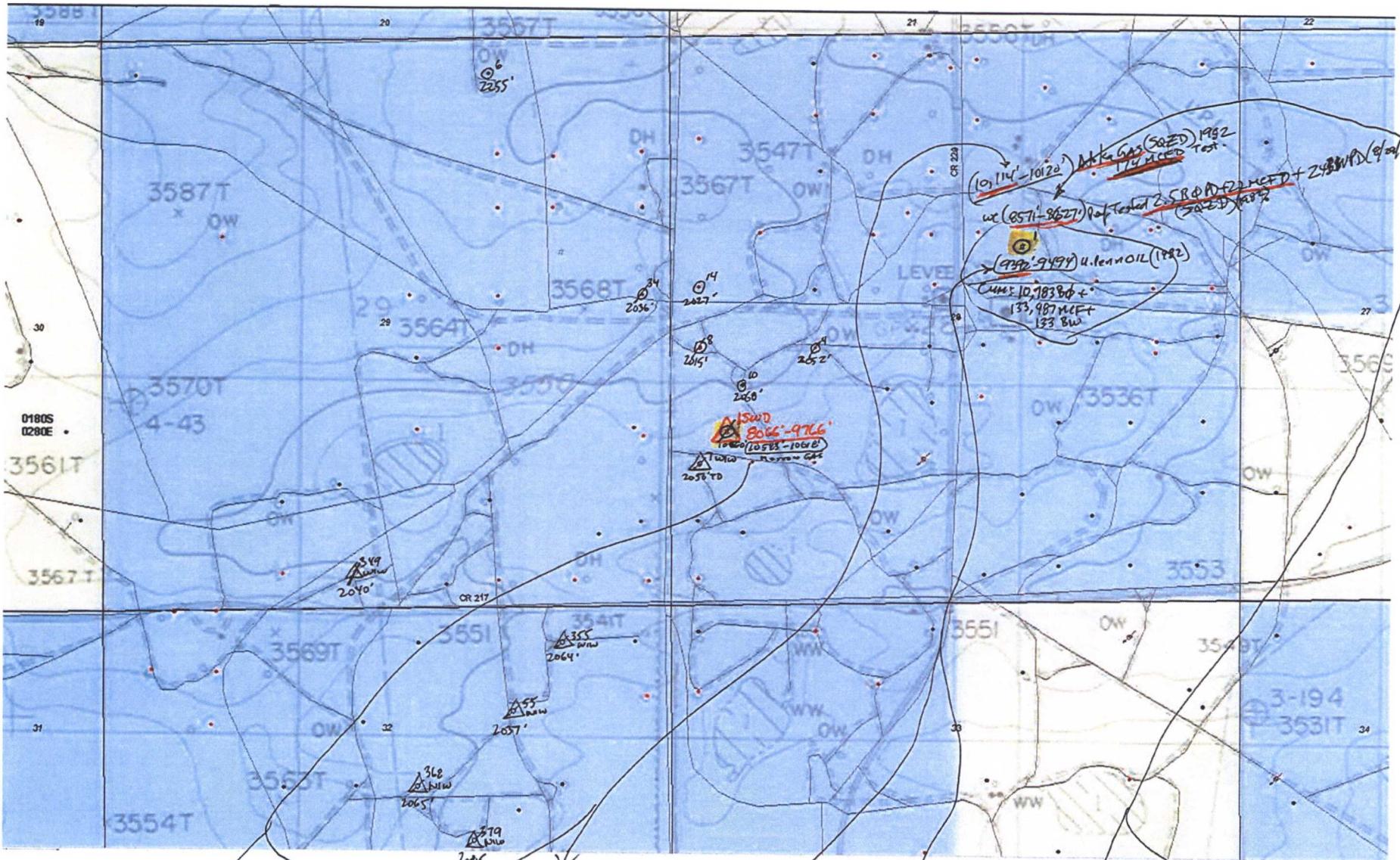
Respectfully yours,

Anchor E. Holm
Geoscientist/Petroleum Engineering Specialist
Oil Gas & Minerals Division
505.827.5759
New Mexico State Land Office
310 Old Santa Fe Trail
P.O. Box 1148
Santa Fe, NM 87504-1148
aholm@slo.state.nm.us
nmstatelands.org



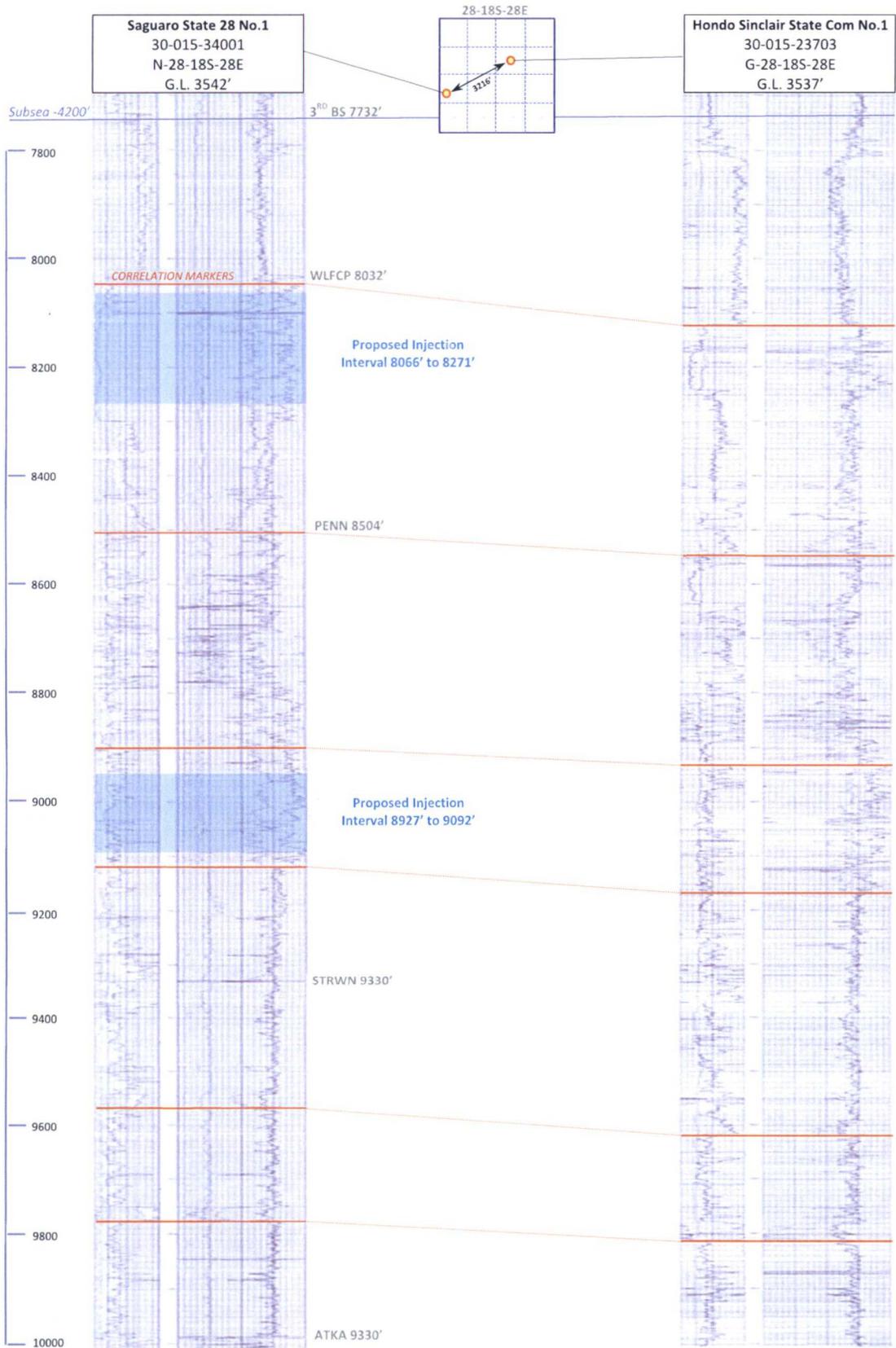
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10/28/2017

Saguaro State 28 No.1 – Cross Section w/ Offset



*The
AFF/pub
ing interval
blw
8066-9776
1613 psi*

McMillan, Michael, EMNRD

From: ben@sosconsulting.us
Sent: Monday, June 5, 2017 9:19 AM
To: McMillan, Michael, EMNRD
Cc: Goetze, Phillip, EMNRD; Jones, William V, EMNRD; Lowe, Leonard, EMNRD; Inge, Richard, EMNRD; Podany, Raymond, EMNRD
Subject: RE: FW: Ray Westhall Operating, Inc.- Saguaro 28 State #1 SWD: SLO Concerns

The top interval is fine... do you need a WBD with all other zones removed? Anything else?

Thanks,
Ben



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----- Original Message -----

Subject: RE: FW: Ray Westhall Operating, Inc.- Saguaro 28 State #1 SWD: SLO Concerns
From: "McMillan, Michael, EMNRD" <Michael.McMillan@state.nm.us>
Date: 6/5/17 10:13 am
To: "ben@sosconsulting.us" <ben@sosconsulting.us>
Cc: "Goetze, Phillip, EMNRD" <Phillip.Goetze@state.nm.us>, "Jones, William V, EMNRD" <WilliamV.Jones@state.nm.us>, "Lowe, Leonard, EMNRD" <Leonard.Lowe@state.nm.us>, "Inge, Richard, EMNRD" <richard.inge@state.nm.us>, "Podany, Raymond, EMNRD" <Raymond.Podany@state.nm.us>

Ben:

The OCD will only allow one interval to be part of the application, this case from 8066' to 8271'.

So if that interval is not successful, the Ray Westhall could apply for an amended application for the lower interval.

Mike

From: ben@sosconsulting.us [mailto:ben@sosconsulting.us]
Sent: Monday, June 5, 2017 9:07 AM

McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Monday, June 5, 2017 8:33 AM
To: 'ben@sosconsulting.us'; Holm, Anchor E.
Cc: Goetze, Phillip, EMNRD; Jones, William V, EMNRD; Lowe, Leonard, EMNRD; Inge, Richard, EMNRD; Podany, Raymond, EMNRD
Subject: RE: FW: Ray Westhall Operating, Inc.- Saguaro 28 State #1 SWD: SLO Concerns

Ben and Anchor:

The OCD will allow for injection only between 8927` to 9092`.

The OCD will not allow the dual interjection interval from 8066` to 8271`, and from 8927` to 9092`.

- The OCD is concerned about correlative rights between 8571` and 8627`.
- Further, the large vertical distance between the proposed perforations makes it difficult to determine if a casing/tubing issue occurs.

If the approved interval is not perspective, then the Applicant can apply for an amended application to include only the upper zone.

Ray and Richard: **The API number for the proposed SWD Well is 30-015-34001.**

Thank You

Mike

MICHAEL A. MCMILLAN

Engineering Bureau, Oil Conservation Division
1220 south St. Francis Dr., Santa Fe NM 87505
O: 505.476.3448
Michael.McMillan@state.nm.us

From: ben@sosconsulting.us [mailto:ben@sosconsulting.us]
Sent: Friday, June 2, 2017 3:44 PM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>; Holm, Anchor E. <aholm@slo.state.nm.us>
Subject: RE: FW: Ray Westhall Operating, Inc.- Saguaro 28 State #1 SWD: SLO Concerns

Mike and Anchor,

I visited w/ Ray Westall staff and they'd like to proceed with intervals as specified by Anchor. That would be 8066' to 8271' and 8927' to 9092'.

Also, I generated a cross section w/ the subject Saguaro and Hondo Sinclair wells. I would point out that the injection intervals as proposed are convincingly updip from the applicable formations. (I could not generate a PDF with higher resolution without getting a HUGE file size but I think you can see the log curves adequately.)



C-108 Review Checklist: Received 4/26/2017 Add. Request: MAY 23 2017, JUN 2 2017 Reply Date: _____ Suspended: _____ [Ver 15]

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

Well No. 1 Well Name(s): Seguero 28 State San

API: 30-0 15-34001 Spud Date: 5/04/2005 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1606 PSL 518 FWL Lot _____ or Unit ✓ Sec 28 Tsp 18S Rge 28E County Eddy

General Location: ~ 15 SW/Antesia Pool: Swi, Wolfcamp-PCNN Pool No.: _____

BLM 100K Map: Antesia Operator: Ray Westcott Operating, Inc OGRID: 119305 Contact: Ben Stone, Agent

COMPLIANCE RULE 5.9: Total Wells: 97 Inactive: 1 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? Y Date: 6-05-2017

WELL FILE REVIEWED Current Status: P&A

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: Y

Planned Rehab Work to Well: C/O D/O PLUGS

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___	Surface	17 1/2" / 3 3/8"	464450'	545	SURFACE / VISUAL
Planned ___ or Existing ___	Interm/Prod	11" / 8 5/8"	3107'	910	185' / 185' / 185'
Planned ___ or Existing ___	Interm/Prod	7" / 8 5/8"	10460	1065	7477' / 7477'
Planned ___ or Existing ___	Prod/Liner				FILTRATED SCUM
Planned ___ or Existing ___	Liner				BEN-3000'
Planned ___ or Existing ___	OH / PERF	9066-8271		Inj Length: 205'	

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		WC	8032	Drilled TD <u>10860</u> PBTD <u>10776</u>
Confining Unit: Litho. Struc. Por.		PN	9254	NEW TD <u>10860</u> NEW PBTD <u>8350</u>
Proposed Inj Interval TOP:				NEW Open Hole <input type="radio"/> or NEW Perfs <input checked="" type="radio"/>
Proposed Inj Interval BOTTOM:				Tubing Size <u>3 1/2</u> in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>7966</u> ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>7966</u> (100-ft limit)
				Proposed Max. Surface Press. <u>1413</u> psi
				Admin. Inj. Press. <u>1613</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T 610 B: 1/2 NW: Cliff House fm _____

FRESH WATER: Aquifer _____ Max Depth _____ HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Roswell Antesia CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? _____ FW Analysis _____

Disposal Fluid: Formation Source(s) morroco, wy, B3 Analysis? Y On Lease Operator Only or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 15 K (MAX) Protectable Waters? Y Source: _____ System: Closed or Open

HC Potential: Producing Interval? NA Formerly Producing? _____ Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Y Well List? _____ Total No. Wells Penetrating Interval: _____ Horizontals? _____

Penetrating Wells: No. Active Wells 1 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 1 Num Repairs? _____ on which well(s)? "Proposed well" Diagrams? Y

NOTICE: Newspaper Date April 11, 2017 Mineral Owner MUSLO Surface Owner MUSLO N. Date 4-27-2017

RULE 26.7(A): Identified Tracts? _____ Affected Persons: Antesia, Maratho, RFI N. Date 4-26-2017

Order Conditions: Issues: Swabs + test over injection interval. C-B-L