DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
4/16/2015		WVJ	4/16/2015	SWD	pMAM1510655976

ABOVE THIS LINE FOR DIVISION USE ONLY 1556

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]

- SWD
- RAY Westall Operating, Inc

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

Check One Only for [B] or [C]

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

119305
well
-DHY 'A' State SWD #1
30-015-21711

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

[D] Other: Specify _____

RECEIVED OCD
2015 APR 16 A 10:42

[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

Pool
-SWD; Cisco-Canyon
96184

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

[F] ☐ Waivers are Attached

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

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

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

Ben Stone		Agent for Ray Westall Operating, Inc.	4/13/15
Print or Type Name	Signature	Title	Date

ben@sosconsulting.us
e-mail Address

April 14, 2015

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

Attn: Mr. David Catanach, Director

Re: Application of Ray Westall Operating, Inc. to permit for salt water disposal the DHY 'A' State Well No.1 (currently named the East Millman Unit No.219) located in Section 15, Township 19 South, Range 28 East, NMPM, Eddy County, New Mexico.

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to covert for disposal, the East Millman Unit Well No.219. Concurrent with this application, Ray Westall will be submitting a sundry to change the name of the well to the previous title resulting in the well being renamed the DHY 'A' State No.1 SWD, based on the original designation.

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 April 8, 2015 edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included in this application package. This application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on state land and minerals and a copy of this application has been submitted to the State Land Office, Oil and Gas Division.

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

Best regards,

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

Cc: Application attachment and file

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: ***Salt Water Disposal*** and the application ***qualifies*** for administrative approval.

II. OPERATOR: ***Ray Westall Operating, Inc. Ogrid - 119305***
ADDRESS: ***P.O. Box 4, Loco Hills, NM 88255***

CONTACT PARTY: ***Donnie Mathews (575) 677-2372***
Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850

III. WELL DATA: ***All well data and applicable wellbore diagrams are ATTACHED hereto.***

IV. ***This is not an expansion of an existing project.***

V. ***A map is ATTACHED*** that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

*VI. ***A tabulation is ATTACHED*** of data on all wells of public record within the area of review which penetrate the proposed injection zone. ***(1 AOR well penetrates the subject interval - No P&As penetrate.)*** *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 2500 gals/1000'.***

*X. ***There is no applicable test data on the well however, any previous well logs (1 well log available via OCD Online) 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 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 6 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: ***4/14/2015***

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:

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

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.

CURRENT CONFIGURATION

PLUGGED WELL SCHEMATIC

East Millman Unit No.219

(Formerly DHY 'A' State No.1)

API 30-015-21711

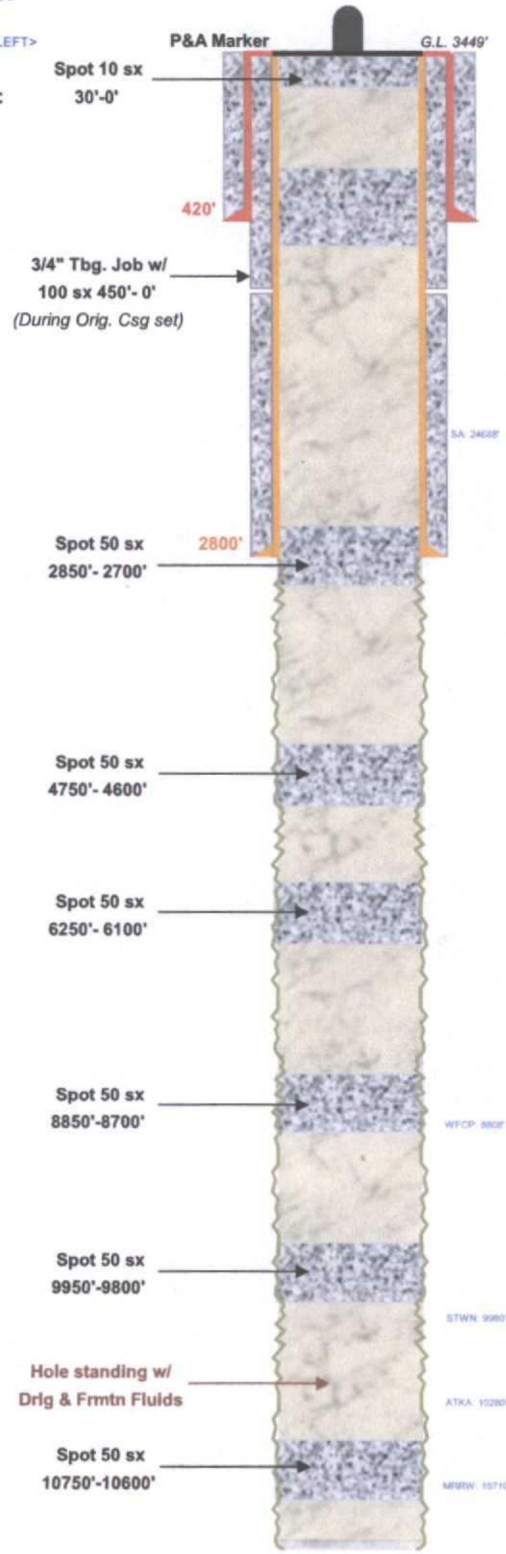
1980' FSL & 1650' FEL, SEC. 15-T19S-R28E
EDDY COUNTY, NEW MEXICO

Spud Date: 1/26/1976
P&A Date: 3/17/1976

Well Plugged by:
Depco, Inc.

<PLUGGING ITEMS LISTED LEFT>

<PRE-P&A EXISTING ITEMS LISTED RIGHT>



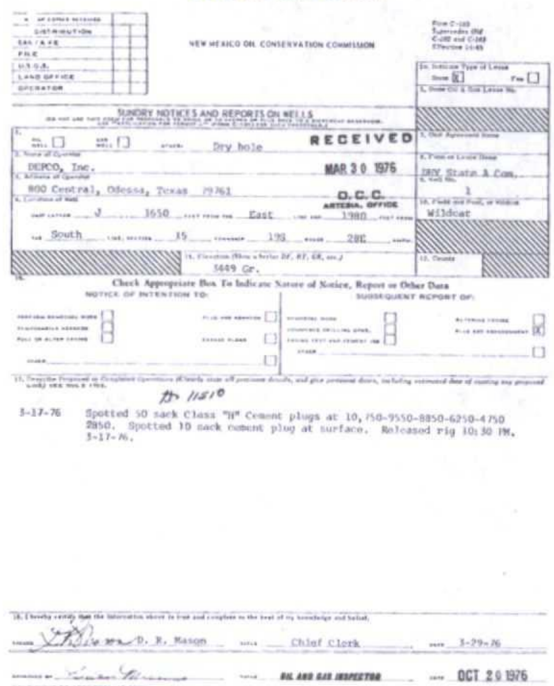
Surface Casing

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

Intermediate Casing DV@ 1,640' ± TOP QN

8.625", 24.0 & 32.0# Csg. (11.0" Hole) @ 2800'
1500 sx - TOC @ 590' by Temp*
***Came back w/ 100 sx thru 3/4" Job in Annulus - Circ. to Surf.**

<P&A SUBSEQUENT SUNDRY>



NEW MEXICO OIL CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

Dry hole

RECEIVED
MAR 3 0 1976
O. C. C.
ARTESIA, OFFICE

DEPCO, Inc.

800 Central, Odessa, Texas 79761

J 1650 East 1980

South 15 19S 28E

DHY State A Com.

1

Wildcat

3449 Gr.

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

NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

TD 11510

3-17-76 Spotted 50 sack Class "H" Cement plugs at 10,750-9550-8850-6250-4750 2850. Spotted 10 sack cement plug at surface. Released rig 10:30 PM. 3-17-76.

D. R. Mason Chief Clerk 3-29-76

OIL AND GAS INSPECTOR OCT 2 0 1976

Production Casing - NEVER SET

Drilled as Morrow Gas well - non-economic
(7.875" Hole Size to 11,510')

SOS Consulting, LLC
Drawn by: Ben Stone, 4/10/2015

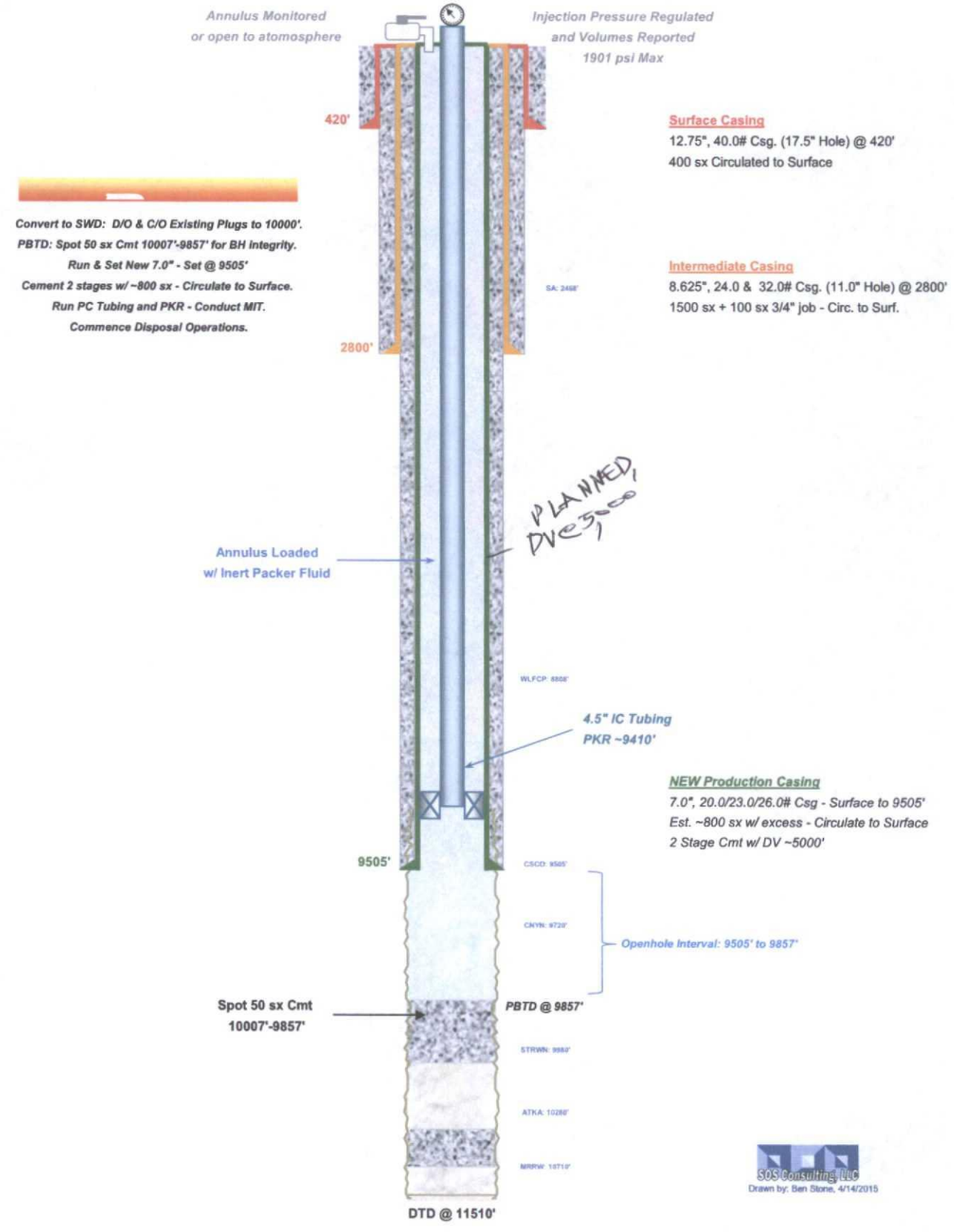
WELL SCHEMATIC - PROPOSED
DHY 'A' State Well No.1 SWD

(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

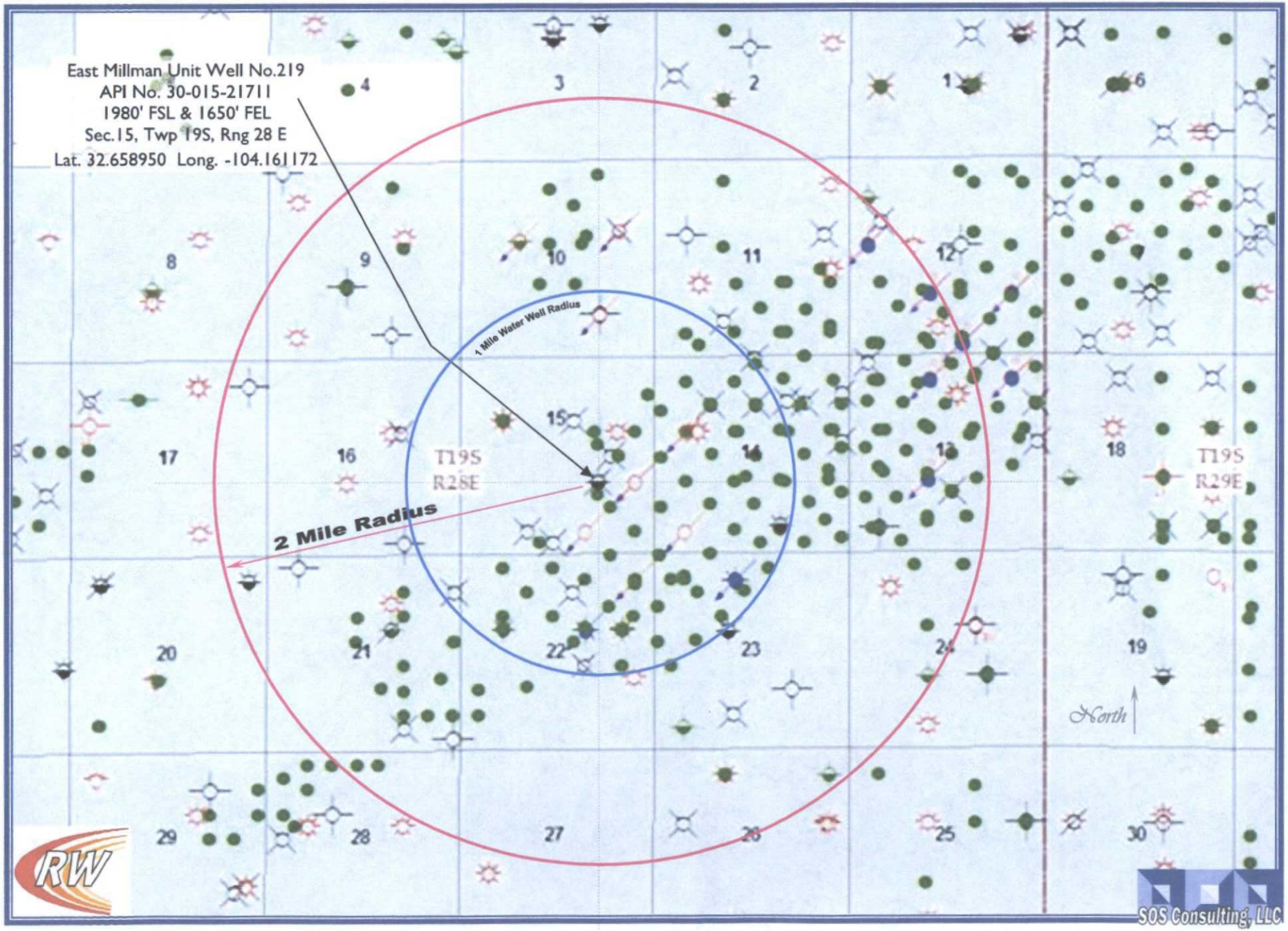
P&A Date: 3/17/1976
Re-Entry Date: ~6/01/2015



SOS Consulting, LLC
Drawn by: Ben Stone, 4/14/2015

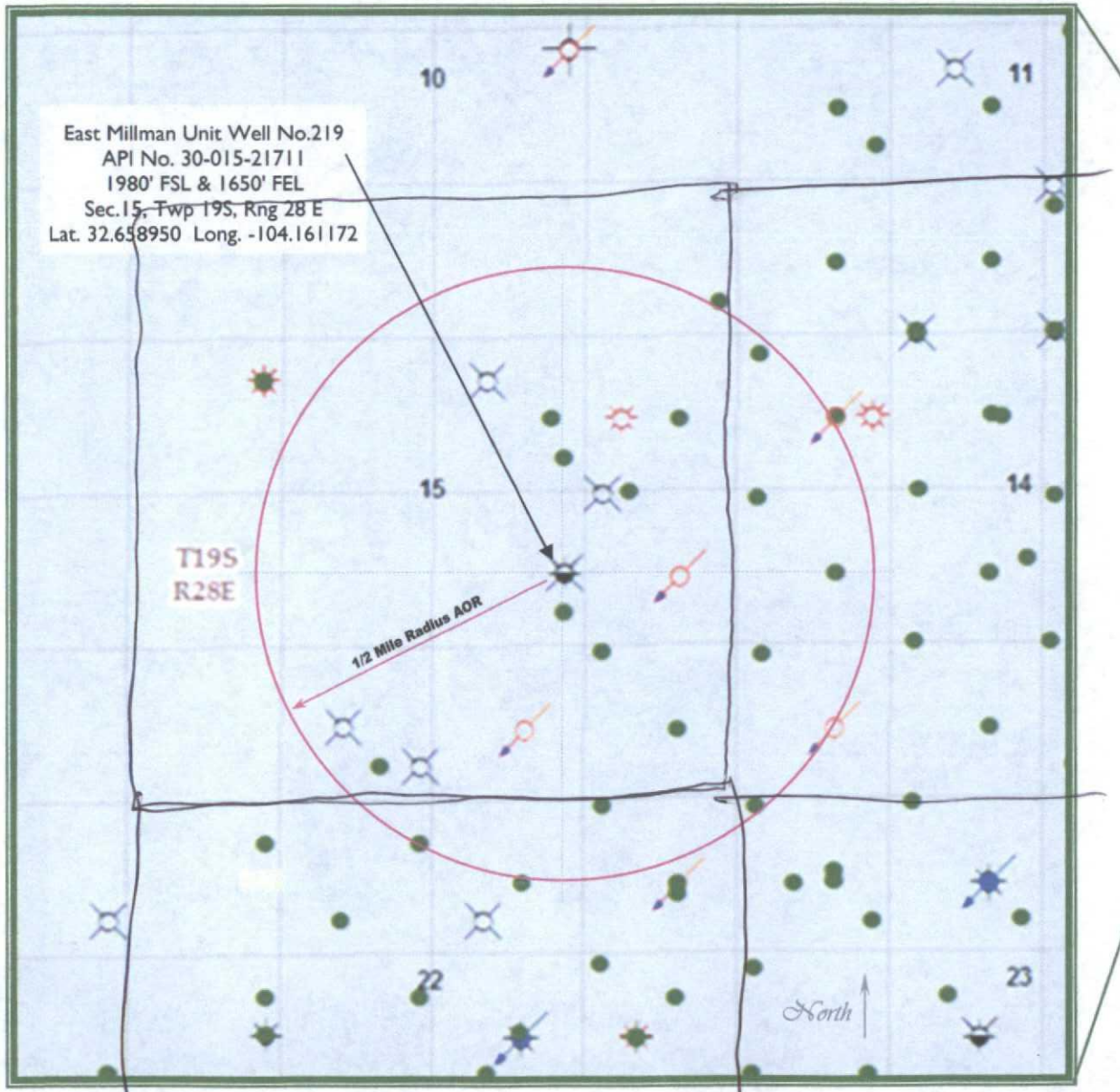
East Millman Unit No.219 - Area of Review / 2 Miles + 1 Mile WW

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



East Millman Unit Well No.219 - Area of Review / Overview Map

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



East Millman Unit Well No.219
API No. 30-015-21711
1980' FSL & 1650' FEL
Sec.15, Twp 19S, Rng 28 E
Lat. 32.658950 Long. -104.161172

~18.1 miles Southwest
of Loco Hills, NM

Eddy County, New Mexico

RAY WESTALL OPERATING, INC.

SOS Consulting, LLC

Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed CISCO Interval 9505'

Only 1 Well Penetrates Proposed Interval.

API	Current Operator	Well Name	Well No.	Type	Lease	Status	ULSTR	Depth	Plugged On
Subject Well									
30-015-21711	**[20451] SDX RESOURCES INC**	**EAST MILLMAN UNIT**	**#219**	**Oil**	**State**	**P&A**	**J-15-19S-28E**	**11510'**	**2/22/2001**
Section 14 Wells									
30-015-02246	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#144	Oil	State	Active	L-14-19S-28E	2986'	
30-015-02247	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#145	Injection	State	P&A	M-14-19S-28E	2500'	12/1/2011
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'	1/1/1900
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'	
30-015-34860	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#232	Oil	State	Active	H-15-19S-28E	3024'	
Section 22 Wells									
30-015-02288	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#154	Oil	State	Active	B-22-19S-28E	2571'	
30-015-27297	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#191	Oil	State	Active	A-22-19S-28E	2625'	
30-015-27348	[19958] STEPHENS & JOHNSON OP CO	EAST MILLMAN UNIT	#203	Oil	State	Active	B-22-19S-28E	2900'	
30-015-02284	[19958] STEPHENS & JOHNSON OP CO	WELCH FEDERAL	#001	Oil	Federal	Active	C-22-19S-28E	2233'	

SUMMARY: 1 well penetrates proposed disposal interval. 0 P&A.

SOS Consulting, LLC

C-108 ITEM VII – PROPOSED OPERATION

The DHY 'A' State Well No.1 SWD (currently known as the East Millman Unit No.219) 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 formation waters - chlorides and TDS are relative compatible with Cisco and Canyon formation waters.)

The system will be closed utilizing a tank battery facility located on the well site.

Injection pressure will be 1901 psi with rates limited only by that pressure. 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 VIII
Geological Data

The Cisco Formation (Upper Penn) 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 [Pennsylvanian] Canyon formation consists of similarly medium-grained carbonates, primarily dolomite and porous and permeable sandstone interbedded with shale and is generally 150 to 200 feet in thickness.

The combined zones offer good porosity in the proposed injection interval located from 9505 feet to 9857 feet with some very good porosity interspersed throughout the overall interval.

The Cisco is overlain by the Wolfcamp and the Canyon is underlain by the Strawn and Atoka. (See Pool Map and Data exhibit included.)

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 Section 9, Twp 19S, Rng 28E, groundwater is at a depth to water of 265 feet.

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

SEC 15 TWN 19 ··· RGE 28 API # 30-015-21711

OPERATOR SDX

WELL NAME ~~OHY ST A #1~~ E Millman #219

STATE OCD TOPS AS PER MA DATE 6-15-93

Southeastern New Mexico			Northwestern New Mexico	
T. Anhy		T. Canyon 9720	T. Ojo Alamo	T. Penn. "B"
T. Salt		T. Strawn 9980	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt		T. Atoka 10280	T. Pictured Cliffs	T. Penn. "D"
T. Yates 808		T. Miss 11214	T. Cliff House	T. Leadville
T. 7 Rivers 1120		T. Devonian	T. Menefee	T. Madison
T. Queen 1675		T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg 2020		T. Montoya	T. Mancos	T. McCracken
T. San Andres 2468		T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta		T. McKee	Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger	T. Dakota	T.
T. Blinebry		T. Gr. Wash	T. Morrison	T.
T. Tubb		T. Delaware Sand	T. Todilto	T.
T. Drinkard		T. Bone Springs ? 3195	T. Entrada	T.
T. Abo		T. MORROW LS 10710	T. Wingate	T.
T. Wolfcamp 8808		T. " CLS 10820	T. Chinle	T.
T. Penn 9505		T.	T. Permain	T.
T. Cisco (Bough C)		T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

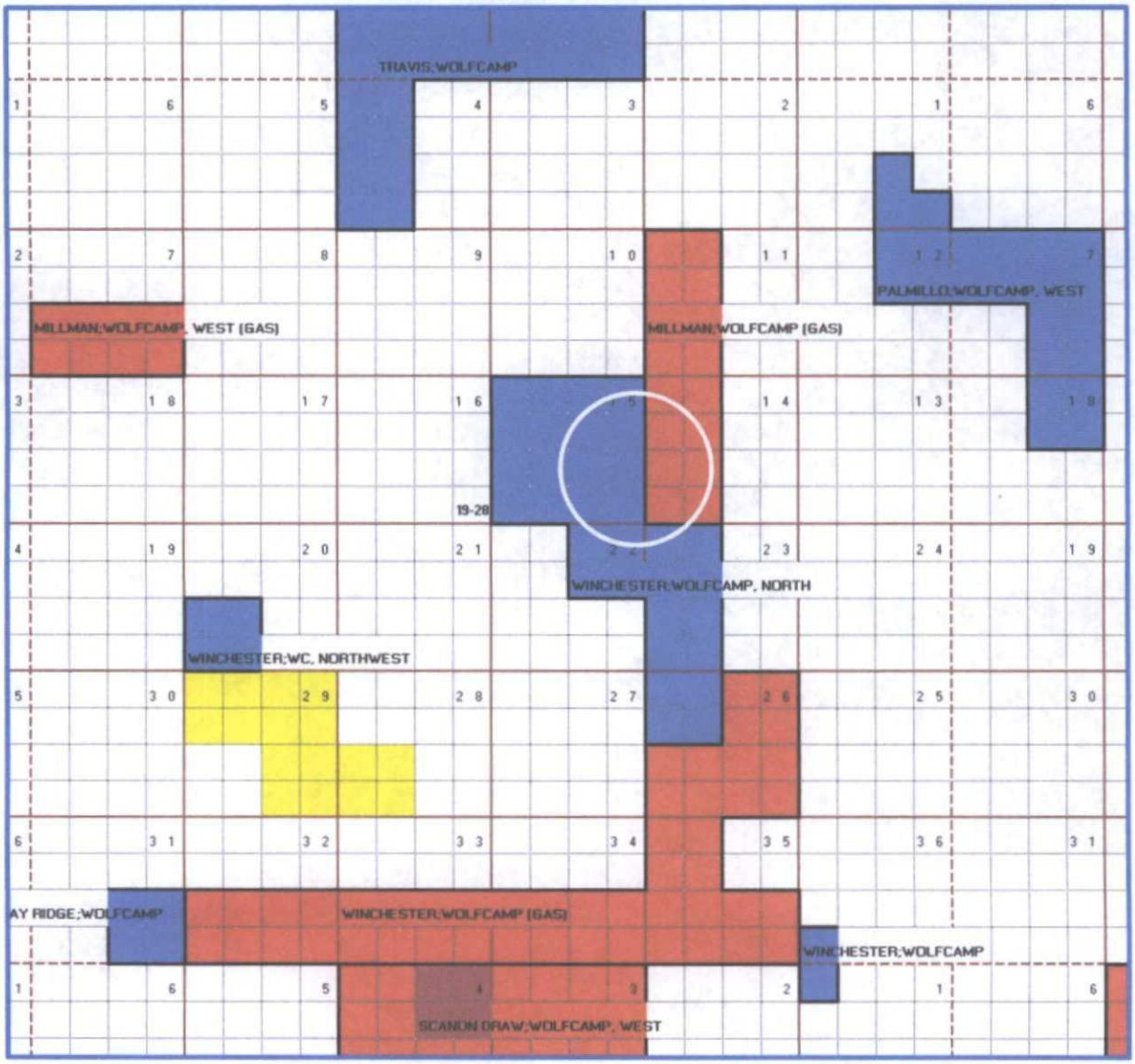
No. 3, from ..... to ..... feet .....

REMARKS:

C-108 – Item VIII – Geologic Data
SUPPLEMENTAL INFORMATION – POOL DATA

WOLFCAMP POOLS IN REGION

(Overlying Disposal Formation)



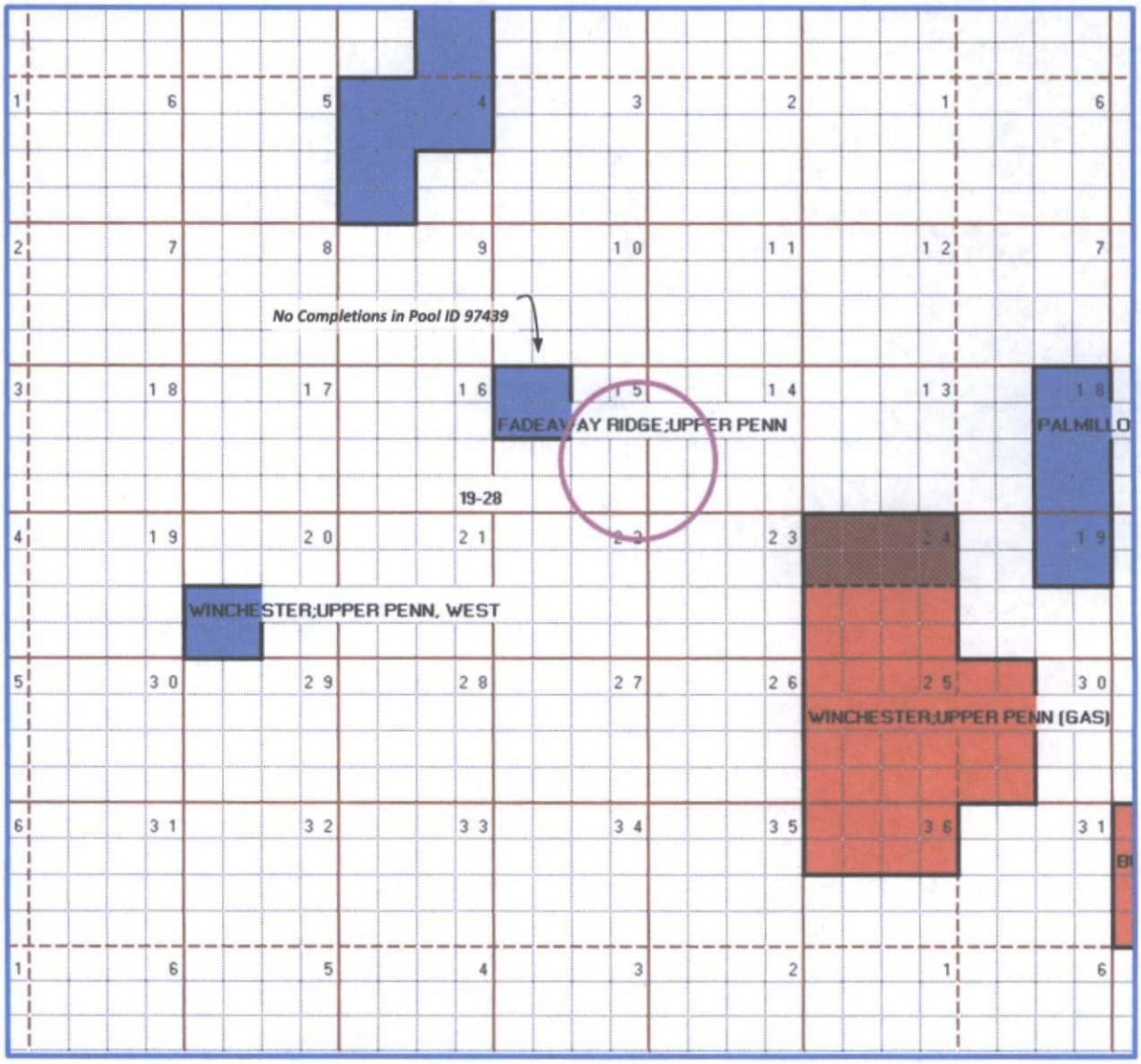
Pool Maps Courtesy of Paul Kautz

SOS Consulting, LLC

C-108 – Item VIII – Geologic Data
SUPPLEMENTAL INFORMATION – POOL DATA

UPPER PENN / CISCO / CANYON POOLS IN REGION

(Cisco &Canyon Disposal Formations)



Pool Maps Courtesy of Paul Kautz

SOS Consulting, LLC

C-108 ITEM X – LOGS and AVAILABLE TEST DATA

A log strip from the subject well is attached and the entire subject interval is represented.

LOG STRIP FOLLOWS

HEADER
PAGE 1

Schlumberger
COMPENSATED NEUTRON FORMATION DENSITY

COUNTY EDDY
FIELD WILDCAT
LOCATION
WELL #1 D.H.Y.-STATE A
COMPANY DEPCO INCORPORATED

COMPANY DEPCO INCORPORATED
WELL #1 D.H.Y.-STATE A
FIELD WILDCAT
COUNTY EDDY STATE NEW MEXICO
LOCATION 1980' FSL & 1650' FEL
Other Services: DLL
SEC 15 TWP 19-S RGE 28-E

Permanent Datum G.L. Elev. 3449
Log Measured From K.B. 17.5 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 3466.5, D.F., G.L. 3449

Date	3-16-76			
Run No.	ONE			
Depth—Driller	11510			
Depth—Logger	11515			
Btm. Log Interval	11514			
Top Log Interval	0			
Casing—Driller	8 5/8 @ 2800	@	@	@
Casing—Logger	2805			
Bit Size	7 7/8			
Type Fluid in Hole	SALT WATER MUD			
Dens. / Visc.	9.8 / —			
pH / Fluid Loss	7.5 / — ml	ml	ml	ml
Source of Sample	CIRC			
Rm @ Meas. Temp.	.051 @ 70 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.063 @ 70 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.078 @ 70 °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	M / C			
Rm @ BHT	.031 @ 167 °F	@ °F	@ °F	@ °F
Circulation Stopped	1600			
Logger on Bottom	2000			
Max. Rec. Temp.	167 °F	°F	°F	°F
Equip. / Location	7645 / HOBBS			
Recorded By	WILSON			
Witnessed By	GROSS			

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

RUN NO.	ONE			
Service Order No.	00658			
Fluid Level	FULL			
Salinity, PPM CL.	NA			
Speed - F.P.M.	30			
EQUIPMENT DATA				
Dens. Panel	1195			
Dens. Cart.	1146			
Dens. Skid.	1263			
Dens. Sonde	306			
Dens. Source	3334			
Dens. Calibrator	1083			
Neut. Panel	475			
Neut. Cart.	578			
Neut. Source	373			
Neut. Calibrator	345			
GR Cart.	257			
Memorizer Panel	887			
Tape Recorder (TTR)	-			
Depth Encoder (DRE)	-			
Pressure Wheel (CPW)	-			
Centralizers, Enter Spring, Standoffs, In-line, or None — Type	BOW SPRING			
— No.	1			
— S. O. - Inches	-			
CALIBRATION DATA				
GR BKG. CPS	88			
GR Source CPS	580			
GR Sens. - Cal	200			
GR T. C. - Cal	6			
CNL Short Spacing - Before Log	3220			
CNL Long Spacing - Before Log	1440			
CNL Short Spacing - After Log	3220			
CNL Long Spacing - After Log	1440			
FDC P' — Before Log	424			
FDC P" — Before Log	648			
FDC P' — After Log	424			
FDC P" — After Log	648			

Type Log	Depth		Down Hole

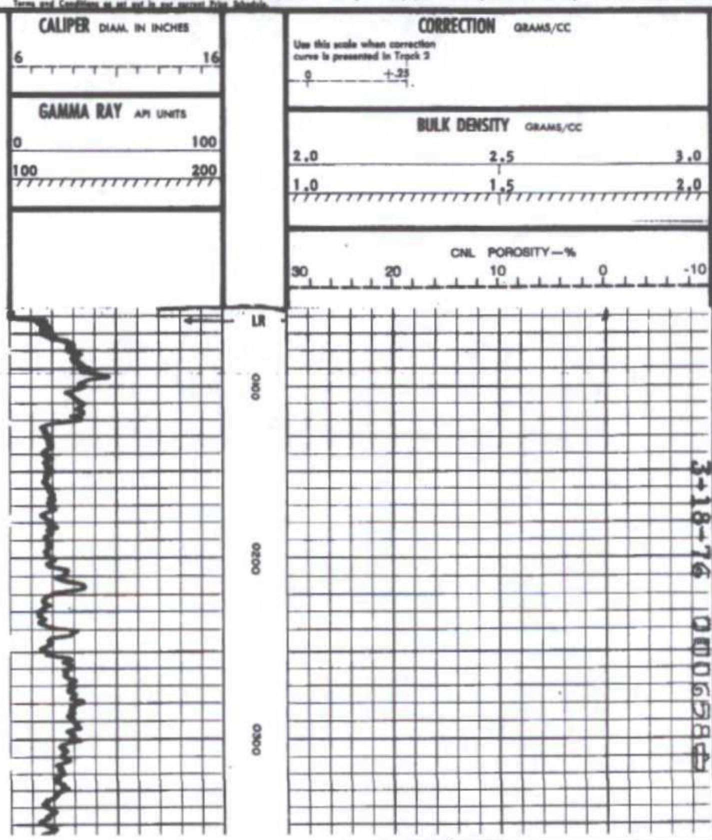
REMARKS

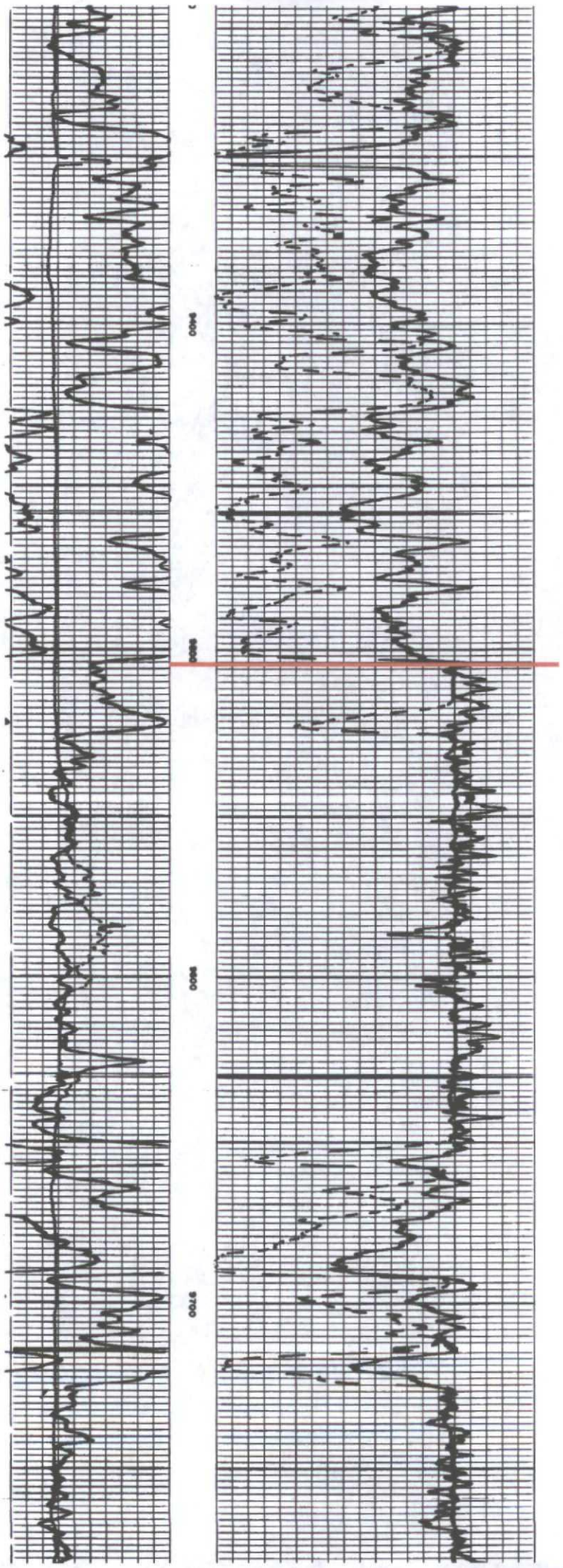
3-18-76 000658

LOGGING DATA

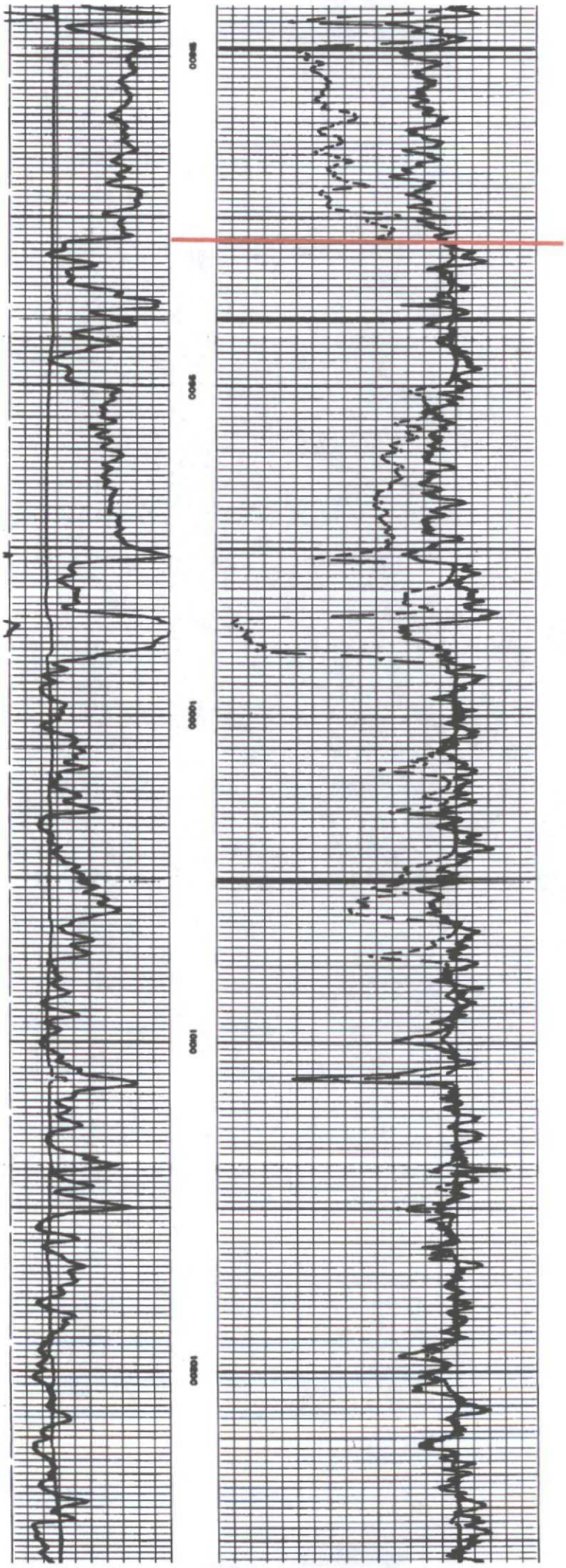
DEPTH Top	DEPTH Bottom	CNP Porosity Scale	CNP Matrix	CNP Auto Corr. or Hole Size Setting	FDC Porosity Scale	FDC Grain Density	FDC Liquid Density	FDC Hole Fluid	GR Sens. Logged	GR T.C.	GR Zero Div. Left	GR Scale Per 100 Div.
2820	TD	30 -10	LM/OH	AUTO	30 -10	2.71	1.10	L10	100	2	10	100
0	2820	30 -10	LM/CH	8					100	1	10	100

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 interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.





TOP OF PROPOSED
INTERVAL
(T/ CISCO) 9505'


BOTTOM OF
PROPOSED INTERVAL
(B/CANYON) 9857'

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

JUL 14 2003

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-32998	97439	FADEAWAY RIDGE; UPPER PENN

Property Code	Property Name	Well Number
32868	OFFSET Well HINT 15 STATE	1

OGRID No.	Operator Name	Elevation
14049	~~MARBOB~~ ENERGY CORPORATION	3503'

Surface Location

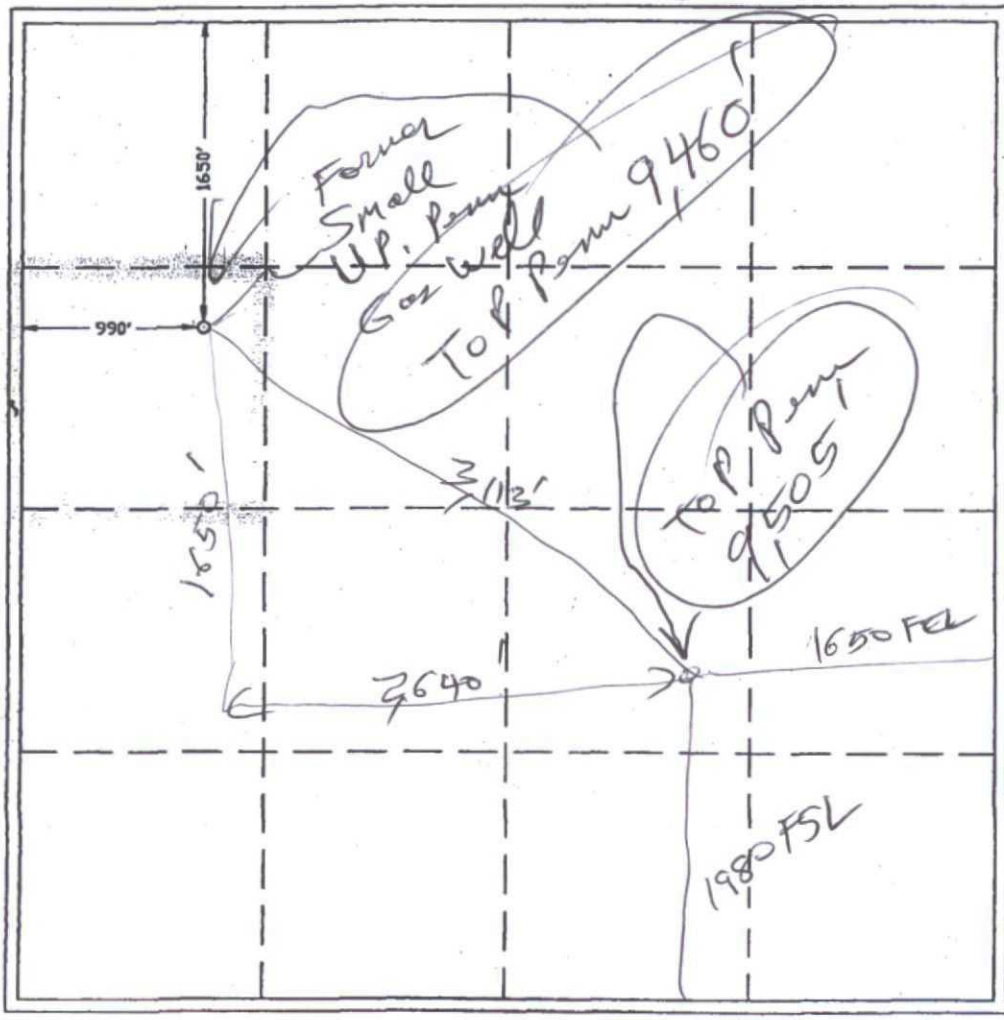
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	15	19-S	28-E		1650'	NORTH	990'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

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

Signature

DIANA J. BRIGGS
Printed Name

PRODUCTION ANALYST
Title

MARCH 28, 2005
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.

July 10, 2003
Date Surveyed A.W.B

Signature & Seal of Professional Surveyor

RONALD J. EIDSON
NEW MEXICO
3239
REGISTERED PROFESSIONAL SURVEYOR

7/11/03

03.11.00725

Certificate No. RONALD J. EIDSON 3239
GARY L. EIDSON 12641

C-108 - Item VII.5

Water Analysis - Disposal Zone

BJ SERVICES

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	6.30	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
Soluable 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	185	in PPM	176
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 - 10,000,00 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 677-2361

Report # 1732

C-108 - Item VII.4

Water Analysis - Source Water - SAN ANDRES

B J Services Water Analysis

Artesia District Laboratory
(505)-746-3140

Date: 6-Nov-00
Company: SDX Resources
Lease: Chalk Federal #2
State: N.M.
Depth: 2800

Test #:
Well #:
County: Eddy
Formation San Andres
Source:

pH:	6.51
Specific Gravity	1.12

Temp (F): 68.3

CATIONS	mg/l	meq	ppm
Sodium (calc.)	54502	2370.7	49862
Calcium	3208	160.1	2884
Magnesium	1458	120.0	1302
Barium	< 25	---	---
Potassium	< 10	---	---
Iron	3	0.1	2
ANIONS			
Chloride	93000	2623.4	83038
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:

Rw= 0.0847@81.1 deg.

SCALE ANALYSIS:

CaCO3 Factor	2817907 Calcium Carbonate Scale Probability-->	Probabl
CaSO4 Factor	3849600 Calcium Sulfate Scale Probability -->	Remote

Stiff Plot

C-108 - Item VII.4

Water Analysis - Source Water - DELAWARE

BJ SERVICES

Water Analysis

Date: 11-Jan-05

2708 West County Road, Hobbs NM 88240
Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For

Company	Well Name	County	State
Devon	Spud 16 State #1	Lea	New Mexico

Sample Source	Sample 2	**Sample #**	1
Formation		**Depth**	
Specific Gravity	1.195	*SG @ 60 °F*	1.196
pH	5.96	*Sulfides*	Absent
Temperature (°F)	65	*Reducing Agents*	

Cations

Sodium (Calc)	*in Mg/L*	73,985	*in PPM*	61,869
Calcium	*in Mg/L*	34,000	*in PPM*	28,428
Magnesium	*in Mg/L*	5,040	*in PPM*	4,214
Soluable Iron (FE2)	*in Mg/L*	50.9	*in PPM*	42

Anions

Chlorides	*in Mg/L*	188,000	*in PPM*	157,191
Sulfates	*in Mg/L*	550	*in PPM*	460
Bicarbonates	*in Mg/L*	78	*in PPM*	65
Total Hardness (as CaCO3)	*in Mg/L*	106,000	*in PPM*	88,629
Total Dissolved Solids (Calc)	*in Mg/L*	301,783	*in PPM*	252,299
Equivalent NaCl Concentration	*in Mg/L*	254,733	*in PPM*	212,998

Scaling Tendencies

**Calcium Carbonate Index*	2,654,720

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 - 10,000,00 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 rw=.040@63f

C-108 - Item VII.4

Water Analysis - Source Water - MORROW

HALLIBURTON

CENTRAL OPERATIONS LABORATORY
WATER ANALYSIS REPORT
HOBBS, NEW MEXICO

COMPANY Marbob

REPORT W02-128
DATE June 18, 2002
DISTRICT Hobbs

SUBMITTED BY Jim Trela

WELL Ruger St. #1 DEPTH FORMATION
COUNTY FIELD SOURCE

SAMPLE Morrow Prod. Water

Sample Temp.	84 °F	°F	°F	°F
RESISTIVITY	0.13			
SPECIFIC GR.	1.040			
pH	6.93			
CALCIUM	4,500 mpl	mpl	mpl	mpl
MAGNESIUM	6,300 mpl	mpl	mpl	mpl
CHLORIDE	34,993 mpl	mpl	mpl	mpl
SULFATES	light mpl	mpl	mpl	mpl
BICARBONATES	18 mpl	mpl	mpl	mpl
SOLUBLE IRON	0 mpl	mpl	mpl	mpl
Sodium	mpl	0 mpl	0 mpl	0 mpl
TDS	mpl	0 mpl	0 mpl	0 mpl
OIL GRAVITY	° °F	° °F	° °F	° °F

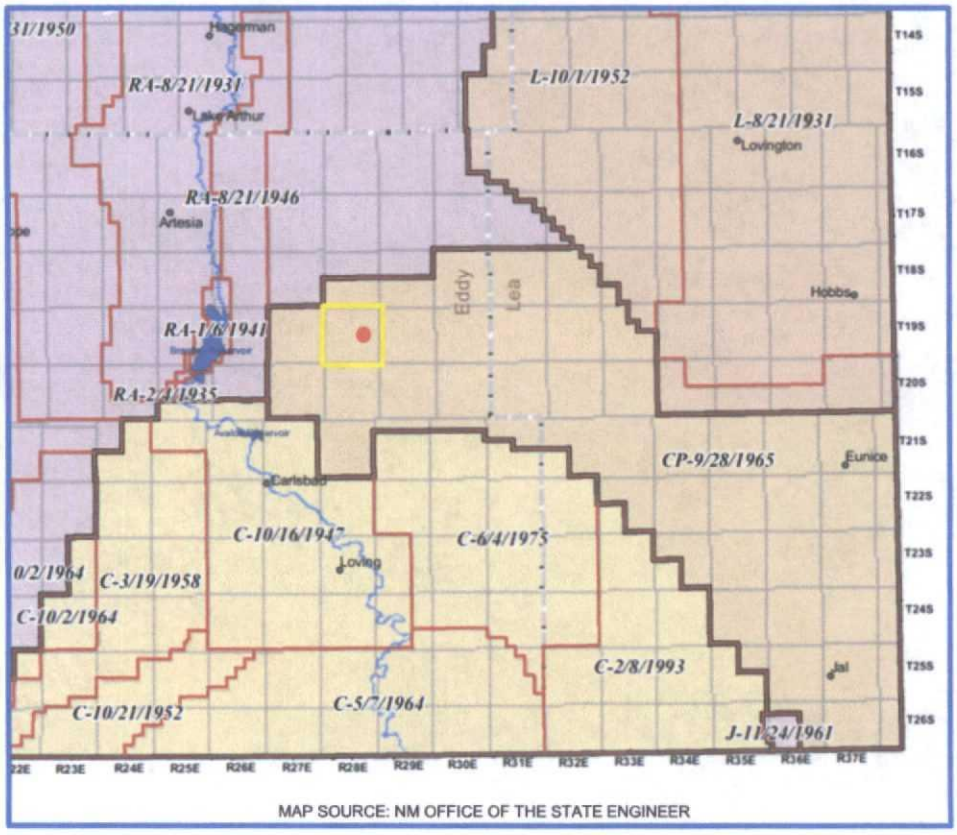
REMARKS

MPL = Milligrams per liter
Resitivity measured in: Ohm/m2/m

ANALYST: Mike Armstrong

C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



MAP SOURCE: NM OFFICE OF THE STATE ENGINEER

The subject well is located within the Capitan Basin, 1-1/2 townships south of the Roswell Artesian Basin.

Fresh water in the area is generally available from the Santa Rosa formation. State Engineer's records show there is only one water well in 9-19S-28E with a depth of 365 feet and depth to water at 265 feet.

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

SOS Consulting, LLC

C-108 ITEM XI – WATER WELLS IN AOR

A search of the State Engineer's database indicates NO water wells within one mile of the proposed salt water disposal well.

New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 10, 11, 14, 15, 16, 21, 22, 23 **Township:** 19S **Range:** 28E

The nearest water wells shown are in Section 9 and those were used for the average depth to groundwater; shown to be 265 feet.

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00361		ED	3	1	3	09	19S	28E	576094	3615246*	365	265	100

Average Depth to Water: **265 feet**

Minimum Depth: **265 feet**

Maximum Depth: **265 feet**

Record Count: 1

PLSS Search:

Section(s): 9 **Township:** 19S **Range:** 28E

***UTM location was derived from PLSS - see Help**

C-108 ITEM XII – GEOLOGIC AFFIRMATION

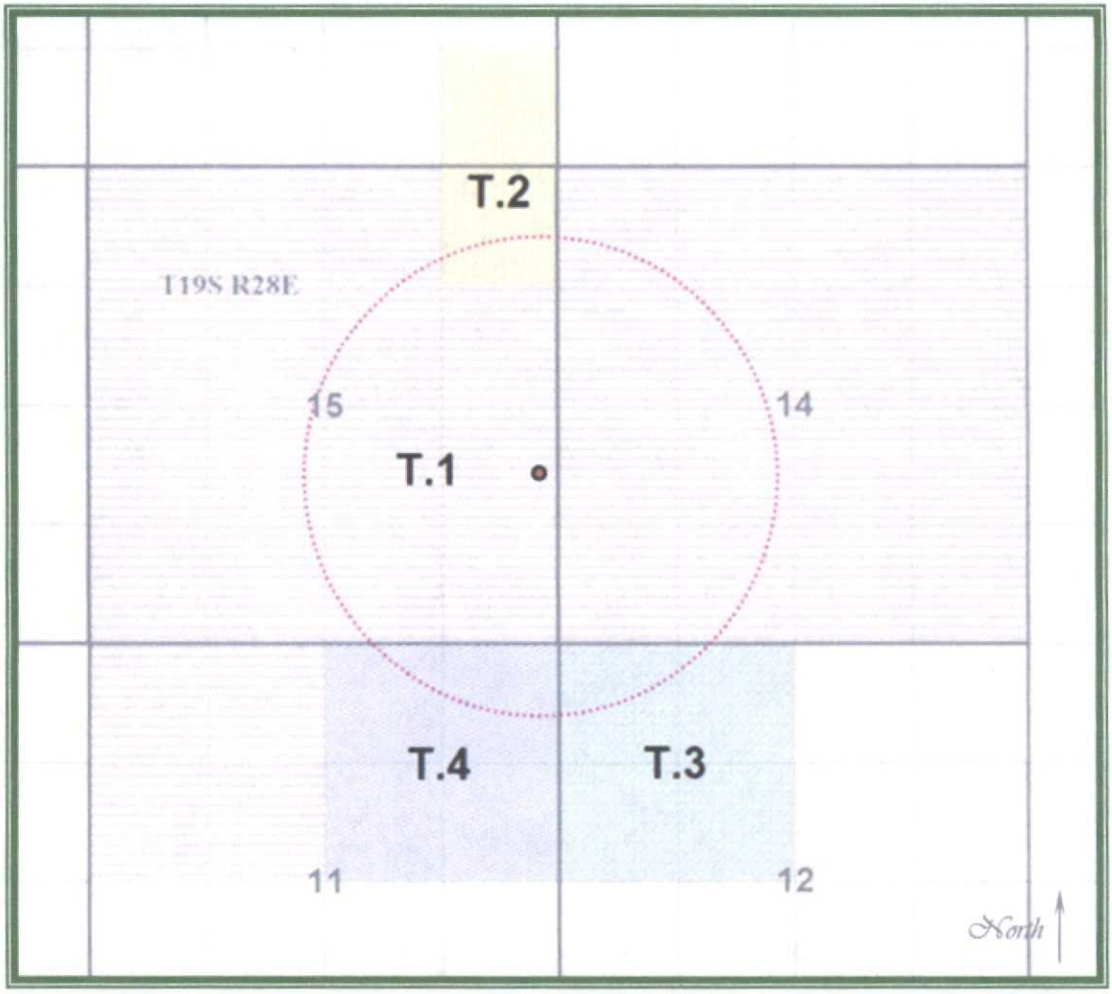
We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.

Ben Stone, Partner
SOS Consulting, LLC

Project: Ray Westall Operating, Inc.
East Millman Unit Well No.219
Reviewed 4/09/2015

East Millman Unit Well No.219 - Leasehold Plat

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



RAY WESTALL OPERATING, INC.

LEGEND

T.1 – X0-0648-0131 – Marathon Oil Company

X0-0648-0151 - Khody Land and Minerals Company

T.2 – E0-5003-0004 – Khody Land and Minerals Company

T.3 – E0-4397-0005 – Perry R. Bass Trustee

E0-4397-0007 – BMT O&G NM, LLC

T.4 – OG -0272-0004 – COG Operating, LLC

Research performed by CG&L Records & Research

SOS Consulting, LLC

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 X0-0648-0131
Lessee/Operator

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

State Leases X0-0648-0151; E0-5003-0004
Lessee

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

Operator

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

State Lease E0-4397-0005

Lessee

4 PERRY R. BASS TRUSTEE
201 Main Street, Ste.2700
Fort Worth, TX 76102-3131

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

State Lease E0-4397-0007

Lessee

5 BMT O&G NM, LLC
201 Main Street, Ste.2700
Fort Worth, TX 76102-3131

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

State Lease OG-0272-0004

Lessee/Operator

6 COG OPERATING, LLC
Attn: Jim Bob Burnett
2208 W. Main St.
Artesia, NM 88210

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 10, 2015

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 convert for salt water disposal the East Millman Unit Well No.219. 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 15, Township 19 South, Range 28 East in Eddy County, New Mexico.

The published notice states that the interval will be from 9505 feet to 9857 feet.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about April 8, 2015

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 East Millman Unit Well No.219. 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 commercially disposed into the Cisco and Canyon formations through selected perforated intervals between a maximum applied for top of 9505 feet to maximum depth of 9857 feet and based on further log analysis. Maximum injection pressure will be 1901 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.

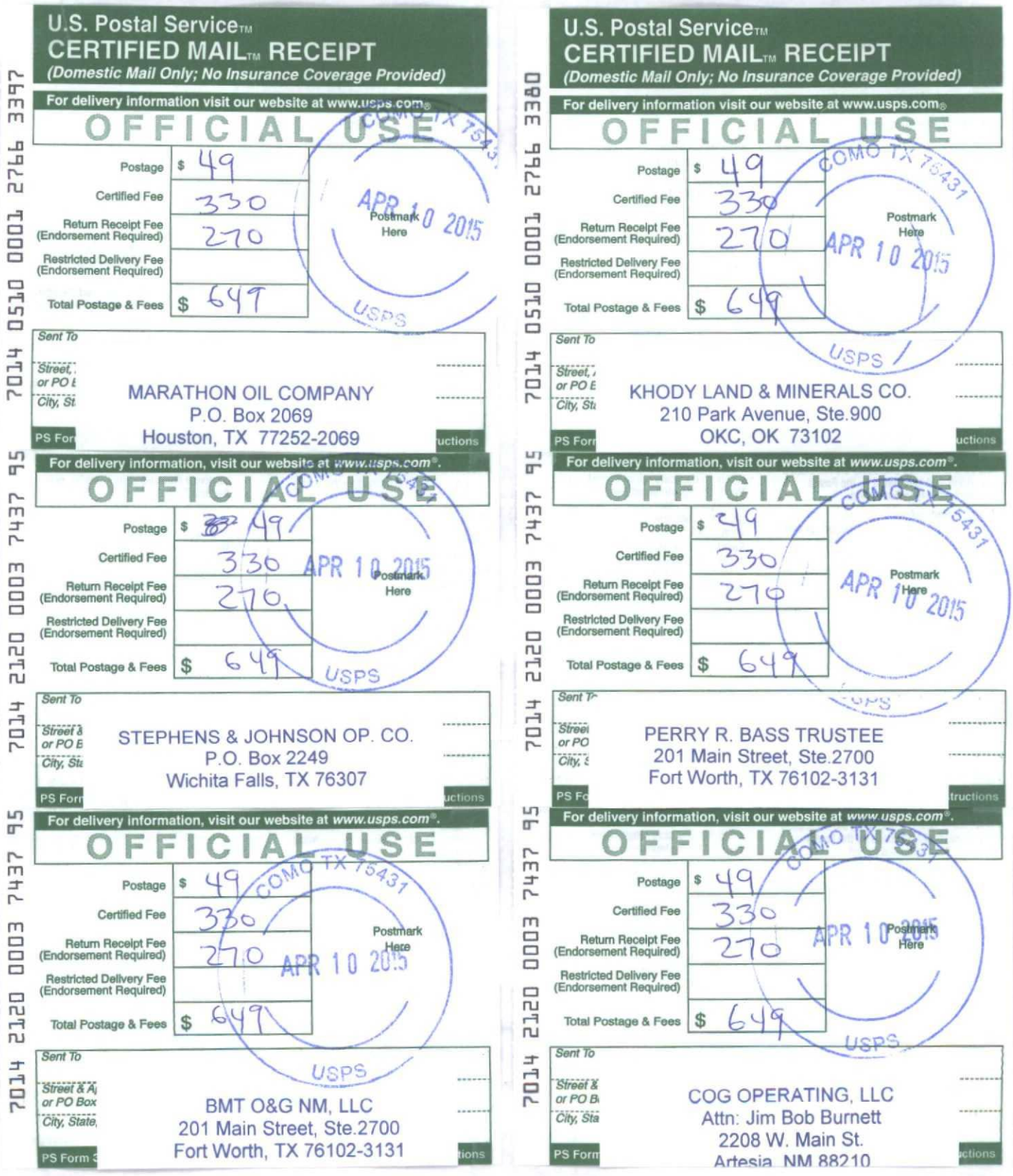
Best regards,

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

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)



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Total Postage & Fees	$ 649

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7014 0510 0001 2766 3397

Sent To
Street, Apt. No., or PO Box
City, State, ZIP+4

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

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

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

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Street, Apt. No., or PO Box
City, State, ZIP+4

PERRY R. BASS TRUSTEE
201 Main Street, Ste.2700
Fort Worth, TX 76102-3131

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 649

Postmark Here: COMO TX 75431 APR 10 2015 USPS

7014 2120 0003 7437 95

Sent To
Street, Apt. No., or PO Box
City, State, ZIP+4

BMT O&G NM, LLC
201 Main Street, Ste.2700
Fort Worth, TX 76102-3131

PS Form ... Instructions

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(Domestic Mail Only; No Insurance Coverage Provided)

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7014 2120 0003 7437 95

Sent To
Street, Apt. No., or PO Box
City, State, ZIP+4

COG OPERATING, LLC
Attn: Jim Bob Burnett
2208 W. Main St.
Artesia, NM 88210

PS Form ... Instructions

C-108 ITEM XIII – PROOF OF NOTIFICATION

Regulatory Filings

Ray Westall Operating, LLC

East Millman Unit No.219 ***(to be renamed DHY 'A' State No.1 SWD)***

C-108 sent 4/15/2015

FedEx Tracking Nos.

OCD SF – 7733 7287 4896

OCD Art – 7733 7290 1746

SLO – 7733 7291 6418

I hereby certify that a full copy of the subject C-108 application was sent to the applicable regulatory agencies as indicated above.

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

Affidavit of Publication

No. 23424

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn, sayes 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 Notice

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 8, 2015
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	

Subscribed and sworn before me this

8th day of April 2015

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2015

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 East Millman Unit Well No.219. 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 commercially disposed into the Cisco and Canyon formations through selected perforated intervals between a maximum applied for top of 9505 feet to maximum depth of 9857 feet and based on further log analysis. Maximum injection pressure will be 1901 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 8, 2015 Legal No. 23424.

C-108 Review Checklist: Received 4/16/15 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 14]

PERMIT TYPE: WFX / PMX / SWD Number: 1556 Permit Date: 6/14/15 ~~Legacy Permits/Orders:~~ _____

~~Well No.~~ _____ Well Name(s): DHY A State SWD Well No. 1 (East Millman Unit No 219)

API : 30-0 15-21711 Spud Date: 1/26/76 New or Old: ___ (***UIC Class II Primacy 03/07/1982***)

Footages 1980 FSL / 1650 FEL Lot ___ or Unit J Sec 15 Tsp 19S Rge 28E County EDDY

General Location: 18 mi SW of Loco Hills Pool: _____ Pool No.: _____

BLM 100K Map: _____ Operator: Ray Westall Operating, Inc. OGRID: 119305 Contact: Ben Stone

COMPLIANCE RULE 5.9: Total Wells: 94 Inactive: 0 Fincl Assur: OK Compl. Order? — **IS 5.9 OK?** OK **Date:** 6-14-15

WELL FILE REVIEWED ✓ Current Status: P&A 2/22/01

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

Planned Rehab Work to Well: RE-ENTER TO 9857', Set 7" @ 9505', inj O.H.

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing ✓ **Surface**	17.5 - 13 3/4	420'		400	CIRC
Planned __or Existing ✓ **Interm/Prod**	11 - 8 5/8	2800'	1640'	1500+100	CIRC w/ 3/4" TBG
Planned __or Existing __ **Interm/Prod**					
Planned ✓ or Existing __ **Prod/Liner**	7 7/8 - 7	9505'	5000	800	PLAN TO CIRC
Planned __or Existing __ **Liner**					
Planned __or Existing ✓ **OH / PERF**		9505 - 9857'	Inj Length 350		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.	9505'	CISCO	✓
Proposed Inj Interval TOP:	9,505'	CISCO (Cam)	
Proposed Inj Interval BOTTOM:	9,857'	CANYON (9720)	
Confining Unit: Litho. Struc. Por.	9980	STRAWN	✓
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 11510 PBTD P&A

NEW TD 9857 NEW PBTD 9857

NEW Open Hole ✓ or NEW Perfs ○

Tubing Size 4 1/2 in. Inter Coated? ✓

Proposed Packer Depth 9410 ft

Min. Packer Depth _____ (100-ft limit)

Proposed Max. Surface Press. 1901 psi

Admin. Inj. Press. 1900 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: ~~R-111-P~~ ○ ~~Noticed?~~ **BLM Sec Ord** ○ ~~WIPP~~ ○ ~~Noticed?~~ **SALT/SALADO** T: ___ B: ___ ~~**CLIFF HOUSE**~~ ___

FRESH WATER: Aquifer CAPITAN Max Depth 2654 **HYDRO AFFIRM STATEMENT** By Qualified Person ✓

NMOSE Basin: _____ **CAPITAN REEF:** thru ○ adj ○ NA ○ **No. Wells within 1-Mile Radius?** 0 FW Analysis ○

Disposal Fluid: Formation Source(s) SA / DEL / Morrow Analysis? ✓ On Lease ○ Operator Only ○ or Commercial ✓

Disposal Int: Inject Rate (Avg/Max BWPD): _____ Protectable Waters? ___ Source: ___ System: Closed ✓ or Open ○

HC Potential: Producing Interval? ___ Formerly Producing? ___ (TO NW of TNSLOC) Method: Logs/DST/P&A/Other ___ 2-Mile Radius Pool Map ✓

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

Penetrating Wells: No. Active Wells 1 Num Repairs? 0 on which well(s)? — Diagrams? —

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

NOTICE: Newspaper Date 4/8/15 Mineral Owner SLO Surface Owner SLO N. Date 4/10/15

RULE 26.7(A): Identified Tracts? ✓ Affected Persons: See AP. N. Date 4/10/15

Permit Conditions: **Issues:** Run Survey To Make Sure PLUG is Holding

~~SWAB Test~~ ~~Show Results~~

Add Permit Cond: