

DATE IN 10/20/2016	SUSPENSE	ENGINEER MAY	LOGGED IN 10/20/2016	TYPE SLI	APP NO DMM1624453877
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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

Check One Only for [B] or [C]

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

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

- [D] Other: Specify _____

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

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

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

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

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

Eddie W. Seay *Eddie W. Seay* Agent 9/30/16
 Print or Type Name Signature Title Date
 Seay 04 @ leaco.net
 e-mail Address

*Suspended to 10-20-2016
 need DST reports*

*- SWD 165
 - Grama Ridge
 Disposal LLC*

*WCI
 - OJO chiso #1
 30-025-2445*

*Pool
 SWD, Devonian*

APPLICATION FOR AUTHORIZATION TO INJECT

PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? Yes No

II. OPERATOR: Grama Ridge Disposal, LLC

ADDRESS: Box 1105 Eunice, NM 88231

CONTACT PARTY: Tommy Pearson

PHONE: 575-370-3162

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____

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

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Tommy Pearson

TITLE: Owner-Operator

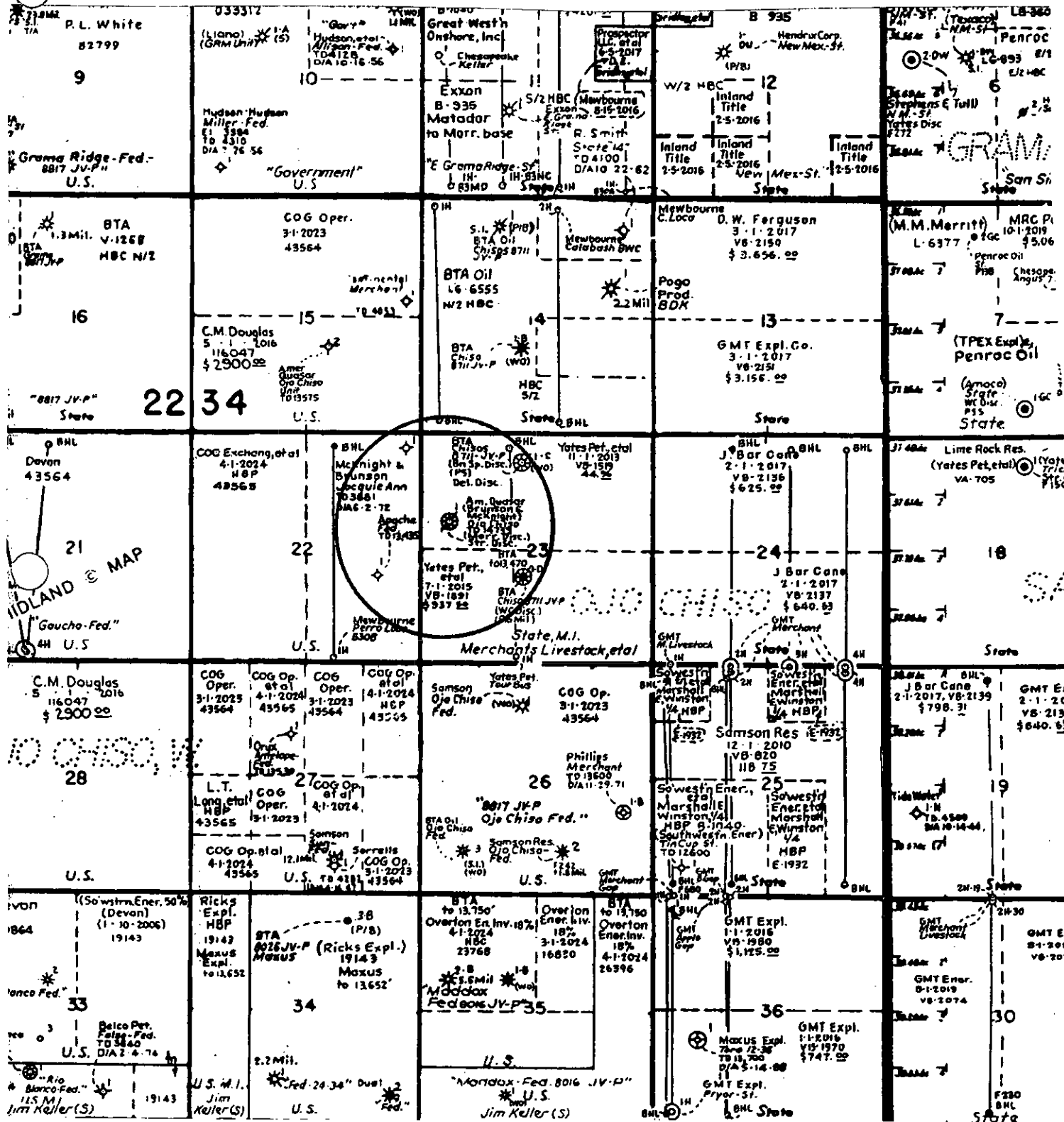
SIGNATURE: 

DATE: 9/30/16

E-MAIL ADDRESS: seay04@leaco.net

* 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: when drilled 1973.

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



ATTACHMENT TO APPLICATION C-108

Ojo Chiso #1 (API 30-025-24459)
Unit E, Sect. 23, Tws 22 S., Rng. 34 E.
Lea, NM

III. WELL DATA

- A.
- 1) See injection well data sheets and attached schematics.
 - 2) See injection well data sheets and attached schematics.
 - 3) $4\frac{1}{2}$ " coated tubing. *→ see diagram*
 - 4) Baker Tension Packer.
- B.
- 1) Injection formation is the ~~Mississippian, Woodford~~ and Devonian.
 - 2) Injection interval open hole from 13360' to 15000'.
 - 3) Well was drilled as a producer.
 - 4) The next higher producing zone is the Morrow at approximately 12735'.
The next lower producing zone is the Silurian at approximately 15200' if present.

IV. NO

V. MAP ATTACHED.

VI. LIST OF WELLS, there are no producing wells within the AOR of this application.

VII. Grama Ridge plans are to re-enter the P & A well Ojo Chiso #1, drill out cement plug down through the 9 5/8" stub at 3621'. Test casing, if test OK continue, clean out CIBP and cement 11492' and 12605'. Cement squeeze old perfs at 11727-11890' and 13181-13198'. Drill out cement squeeze and test. Continue to drill out base of 7 5/8" at 13360' and open hole down to 15000', will test Mississippian and Devonian for production as we drill, clean out well bore. Run in hole with 4 1/2" IPC tubing and 7 5/8" packer and set at approximately 13260' or within 100 ft. of open hole section, load backside with packer fluid and run MIT as required. Put on injection, and file sundry reports.

- 1) Plan to inject approximately 15,000 bpd of produced water from various operators.
- 2) Closed system.
- 3) Average injection pressure should be approximately 0# to 2650# or whatever limit OCD allows.

See update

*Section → get TUD
14-22534
22-22534*

+23

UPDATED WORKOVER PLAN

Grama Ridge plans to re-enter the P&A well, Ojo Chiso #1, and convert to a Devonian SWD.

1. Notify OCD and file C-103 of conversion.
2. Rig up and drill out cement plugs to top of stub at 3621', test casing.
3. Continue to drill out cement and CIBP at 11492' and 12605'.
4. Cement squeeze old perfs at 11727' - 11890' and 13181' - 13198'. Drill out cement squeeze and test casing.
5. Continue to drill out base of 7 5/8" at 13360' and open hole section down to top of Devonian at 14641', drill to 14665', run 5 1/2" casing from surface to top of Devonian and set at 14655' and cement to surface, or at least to above stub at 3621', WOC.
6. Continue to drill to 15000', base of Devonian with open hole being from 14655' to 15000'.
7. Run in hole with 3 1/2" tubing and pkr set in 5 1/2" approximately 100' above casing shoe, load backside with packer fluid.
8. Acidize formation.
Notify OCD and run MIT.
Put on injection.
File appropriate sundry notices.

OCD wants
cement to
surface
w/c-B-L

4) Produced water from various sources, Bone Springs, Wolfcamp, Delaware, etc..

- VIII.** The proposed disposal formations are Mississippian, Woodford and Devonian which consists of Dolomite and Carbonate. The Mississippian and Devonian were tested when drilled, not productive. (See attached for closest production)

The fresh water formation in the area is the Alluvium which ranges in thickness from 60' to 70' and the Santa Rosa between 400-600'. One well was found in the AOR in Section 23, WW CP00598, analytical attached. CP00704 in Section 22 was P & A.

- IX.** ACID AS NEEDED.

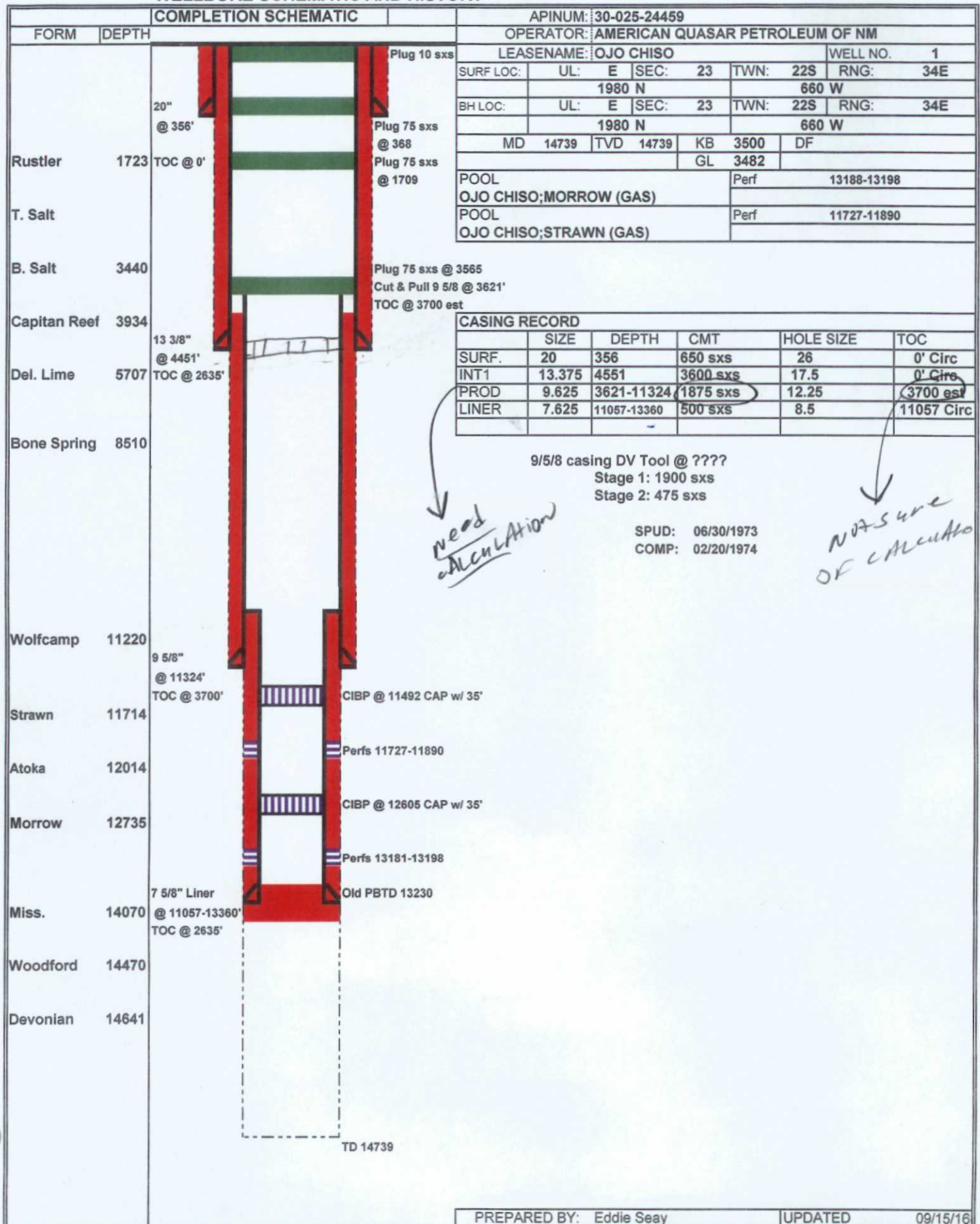
- X.** PREVIOUSLY SUBMITTED TO OCD.

- XI.** ATTACHED.

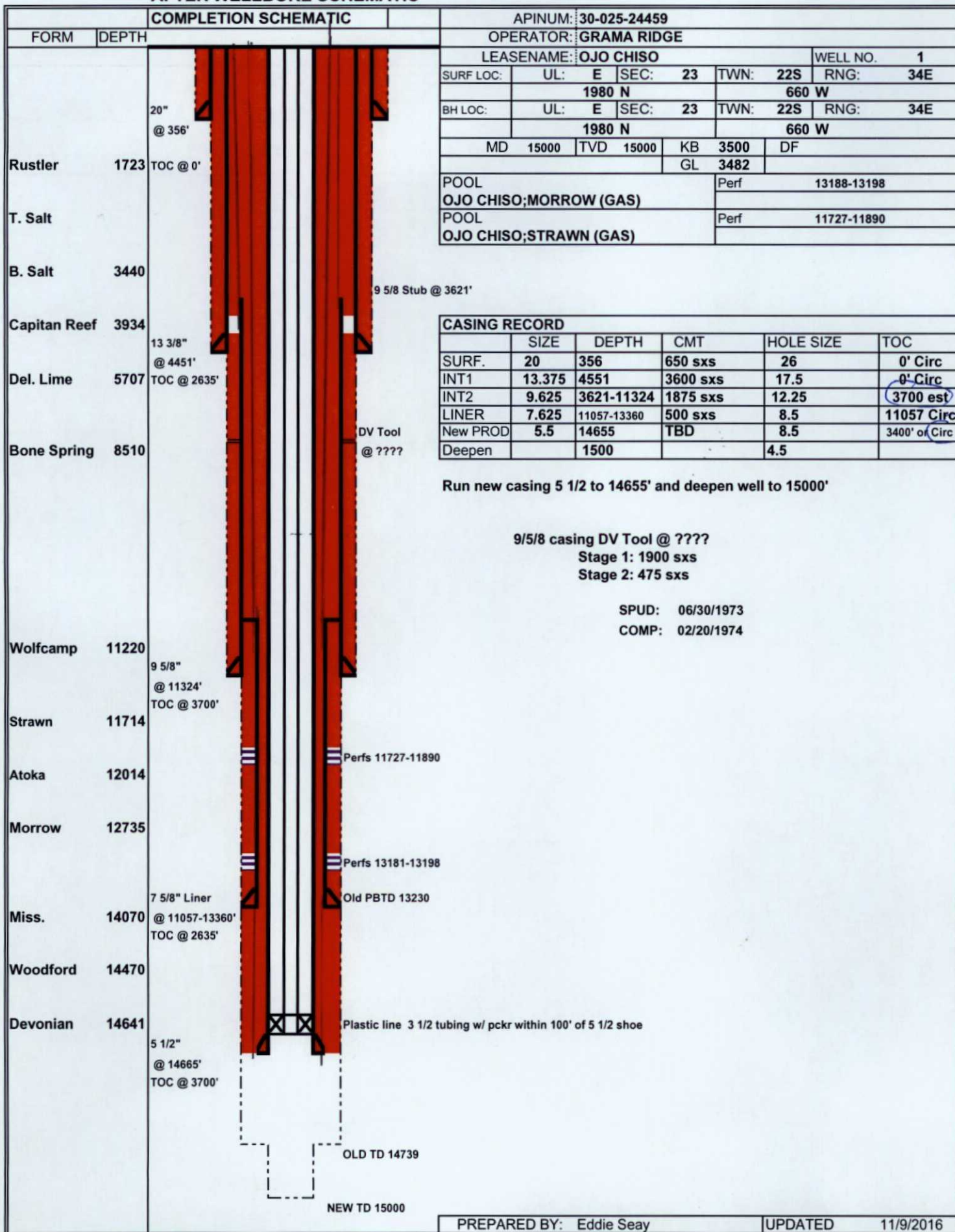
- XII.** I, Eddie W. Seay, have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water pertaining to this well.

- XIII.** ATTACHED.

WELLBORE SCHEMATIC AND HISTORY



AFTER WELLBORE SCHEMATIC



PREPARED BY: Eddie Seay

UPDATED

11/9/2016

BARNETT	PEARL; Barnett, North (GAS) 18 miles north Sec 26, T19S, R35E	GAS
MISSISSIPPIAN LIME	VACUUM; MISSISSIPPIAN, SOUTH 24 miles north Sec 26, T18S, R35E	OIL
DEVONIAN	BELL LAKE; DEVONIAN, NE (GAS) 2 1/2 miles southwest	GAS

October 24, 2016

RECEIVED

2016 OCT 27 PM 3:01

NMOCD Engineering
ATTN: Michael A. McMillan
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Grama Ridge Disposal, LLC
C-108
Ojo Chiso SWD #1
API 30-025-24459

Mr. McMillan:

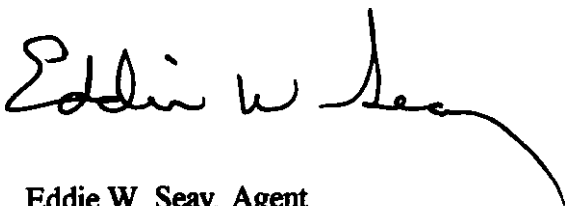
I am in receipt of your letter requesting additional information on the above listed well. Please find the return receipts (green cards) for the certified mailings within.

Also, a new schematic showing only the Devonian formation, with casing running into the upper most portion.

When the well is approved and work begins, we will run a DST on the Devonian formation and file results of test with the District as requested.

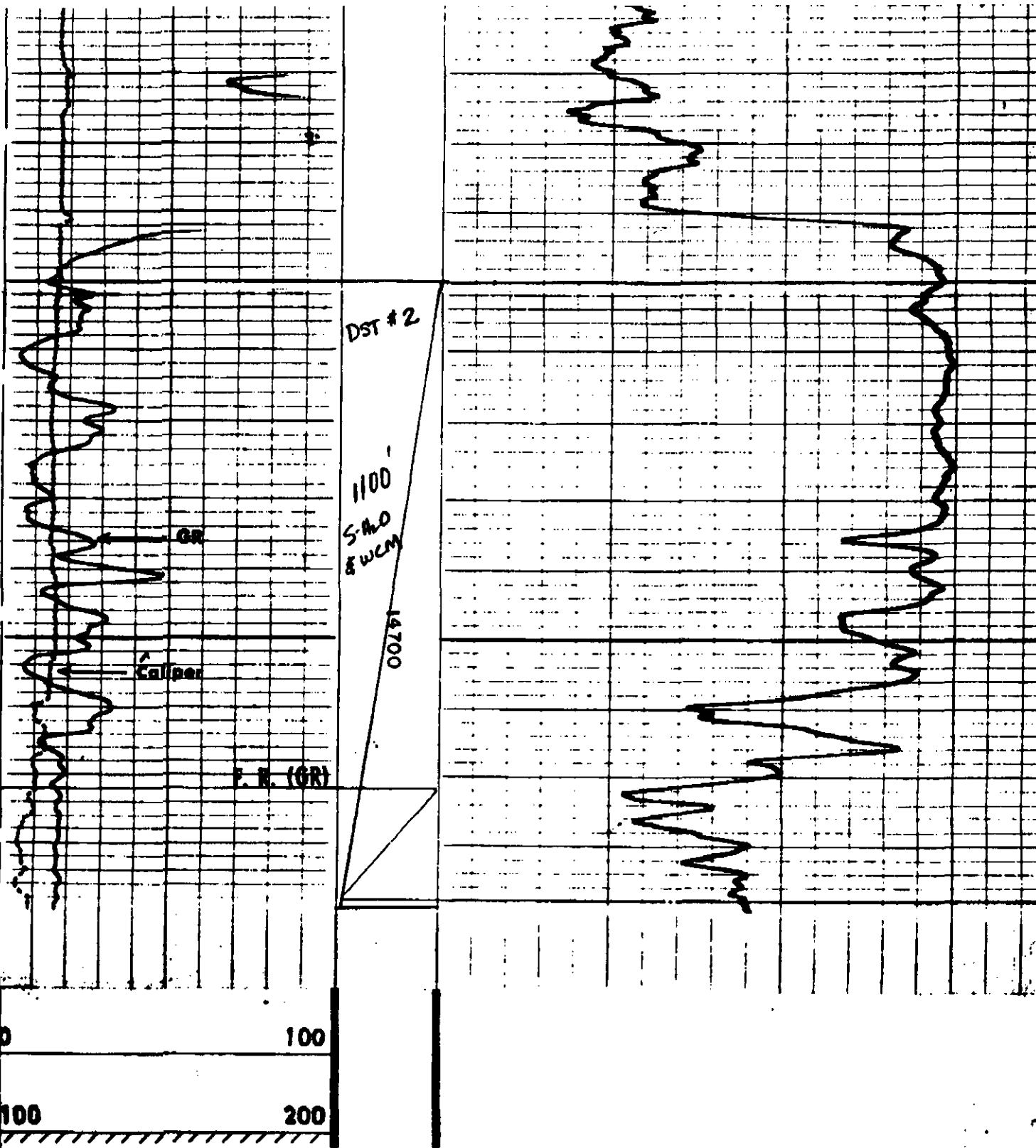
We appreciate your continued help and please call if you need anything further.

Thanks,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Grama Ridge



Rena Seay

From: "McMillan, Michael, EMNRD" <Michael.McMillan@state.nm.us>
To: "Rena Seay" <seay04@leaco.net>
Cc: "Jones, William V, EMNRD" <WilliamV.Jones@state.nm.us>; "Goetze, Phillip, EMNRD" <Phillip.Goetze@state.nm.us>
Sent: Thursday, October 27, 2016 2:42 PM
Subject: RE: Grama Ridge Disposal LLC Ojo Chiso SWD Well No. 1

Eddie:

Look at the repeat section of the porosity log-it shows a DST. The OCD will require that you examine the results of the DST before the application is approved.

Mike

From: McMillan, Michael, EMNRD
Sent: Thursday, October 20, 2016 3:42 PM
To: 'Rena Seay' <seay04@leaco.net>
Cc: Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: Grama Ridge Disposal LLC Ojo Chiso SWD Well No. 1

Eddie:

I received your administrative application for the Grama Ridge Disposal LLC Ojo Chiso SWD Well No. 1 on Thursday October 20, 2016.

The OCD will require the following information:

I need the return receipts for the affected parties.

Next, the OCD will allow for injection into the deepest formation that was applied for in your application-the Devonian, from 14640 feet to 15000 feet. As a result, the OCD will require Grama Ridge to run casing through the Woodford, and set the packer within 100 feet of the injection interval. You will be expected to update the wellbore diagram.

If the Devonian is unsuccessful, then Grama Ridge can re-apply for the next uphole formation.

Further, Grama Ridge will be expected to supply to the Division the results of the DST in the Devonian formation.

Your application will be suspended for 10-days

If the required information is not received within 10-days your application will be cancelled.

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

November 1, 2016

RECEIVED OIL

2016 NOV -3 P 2:05

NMOCD Engineering
ATTN: Michael McMillan
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Grama Ridge Disposal, LLC
Ojo Chiso SWD #1
API 30-025-24459
DST Review

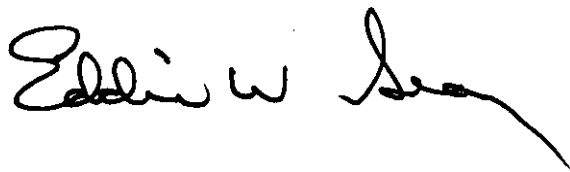
Mr. McMillan:

Find a copy of the log for the second run to perform DST. The log covers a section of approximately 1100 ft. During the DST, it was found that only salt water and (WCM) water cut mud were produced, no oil or gas was noted or mentioned in the file.

It is my opinion that the Devonian in this area is non-productive. Should you have any other questions or need any information on this well, please let me know.

I look forward to hearing from you.

Thanks,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Grama Ridge Disposal, LLC

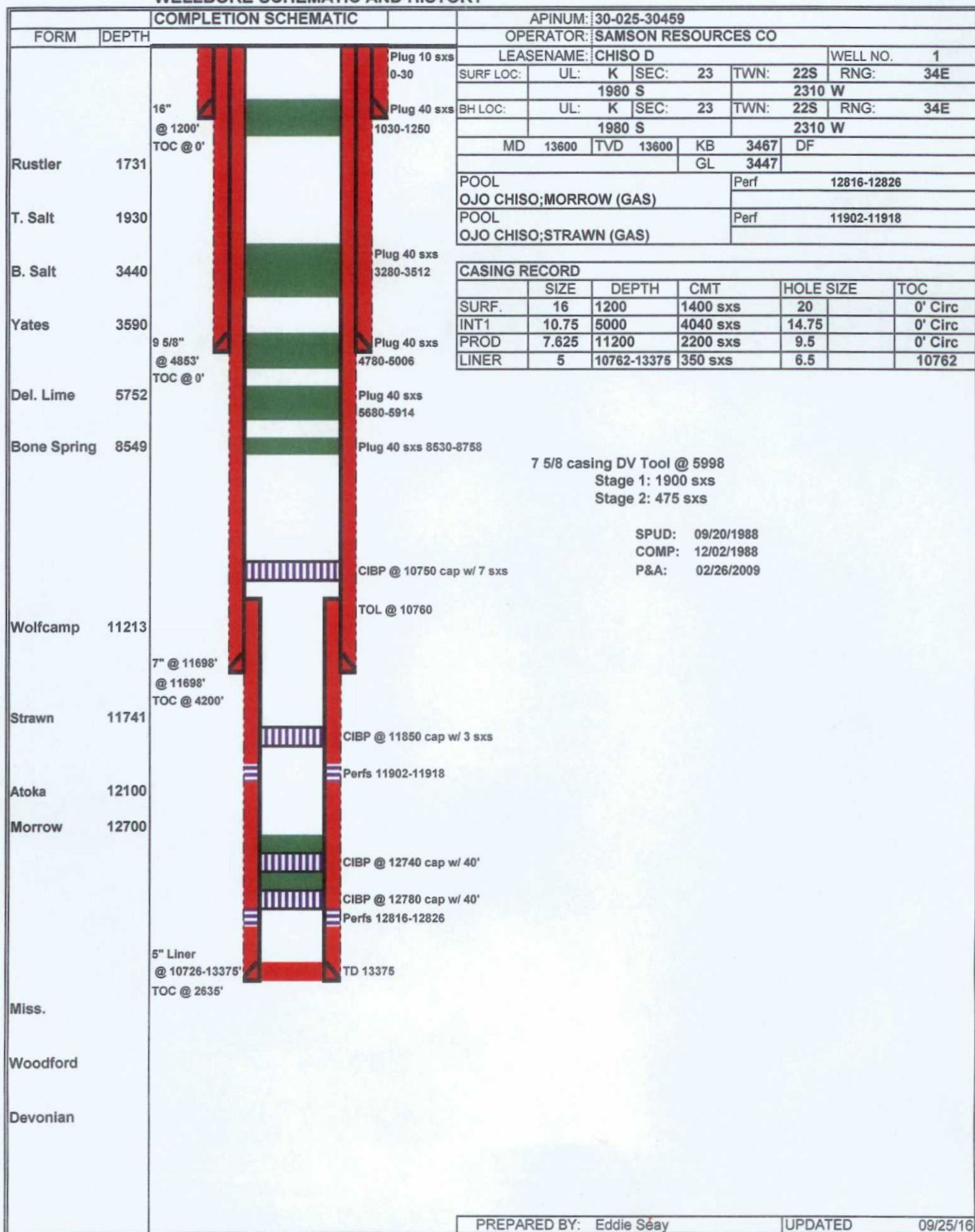
DISPOSAL WELL

30-025-24459	OJO CHISO	1	GRAMA RIDGE DISPOSAL LLC	14739	G	P	Lea		E	23	22	S	34	E	1980	N	660	W
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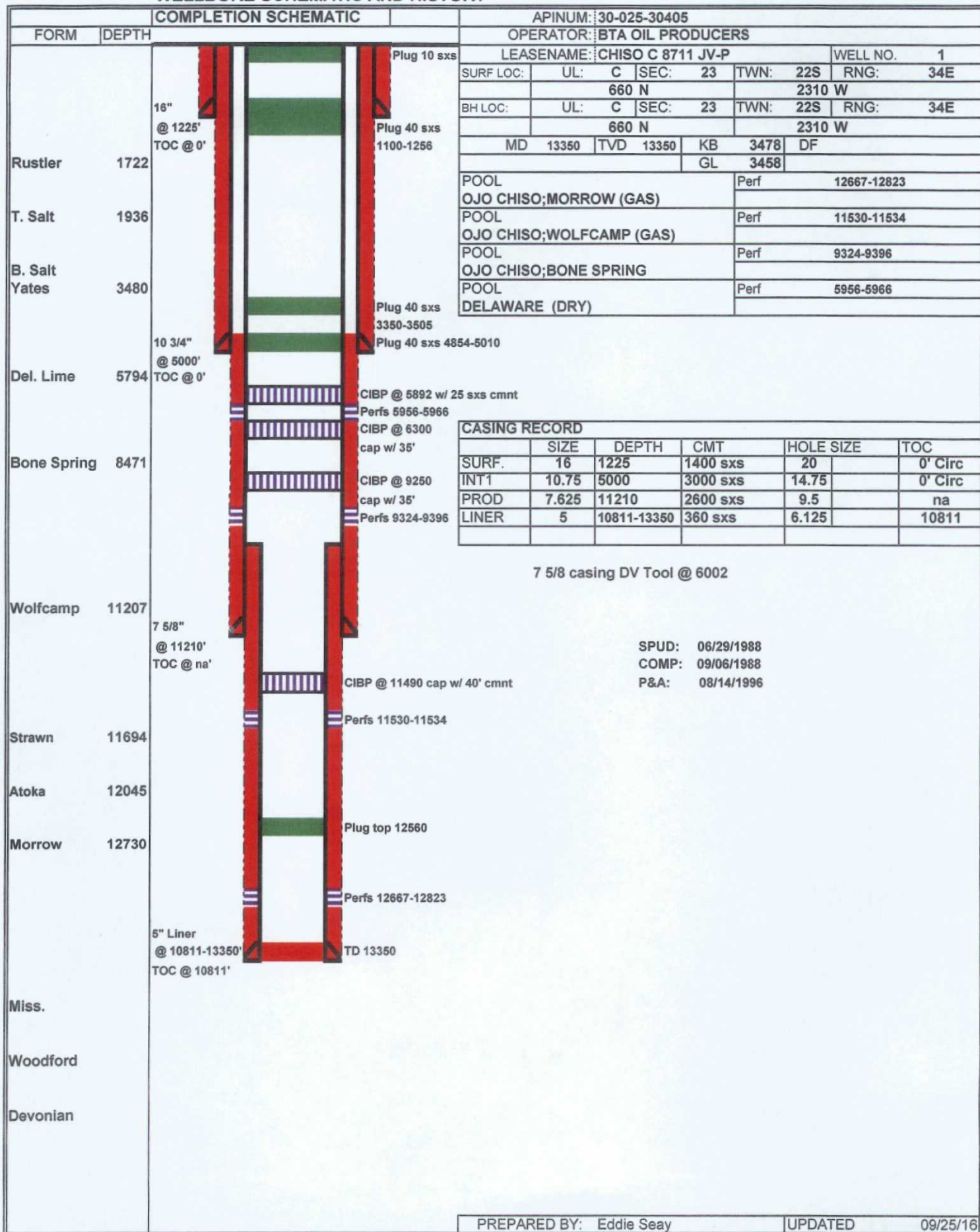
Wells within 1/2 mile radius of proposed SWD well

API #	PROPERTY NAME	#	OPERATOR	TD	TYPE	STAT	CO	LAND	U/L	SEC	TWN		RNG		N/S		E/W	
30-025-24780	OJOCHISO UNIT	2	AMERICAN QUASAR PETROLEUM CO	13575	O	P	Lea		J	15	22	S	34	E	1980	S	2080	E
30-025-24146	JACQUIE ANN	1	BRYON MCKNIGHT & NOLAN BRUNSON	3881	O	P	Lea		A	22	22	S	34	E	330	N	330	E
30-025-29795	FEDERAL 22	1	APACHE CORP	13435	O	P	Lea	F	I	22	22	S	34	E	1980	S	990	E
30-025-42288	PERRO LOCO 22 B3OB FEDERAL	1H	MEWBOURNE OIL CO	11157	O	A	Lea	F	O	22	22	S	34	E	185	S	1980	E
30-025-30405	CHISO C 8711 JV-P	1	BTA OIL PRODUCERS	13350	O	P	Lea	S	C	23	22	S	34	E	660	N	2310	W
30-025-42735	TOUR BUS 23 STATE	502H	EOG RESOURES INC	10416	O	A	Lea	S	D	23	22	S	34	E	250	N	330	W
30-025-30459	CHISO D	1	SAMSON RESOURCES CO	13375	G	P	Lea	S	K	23	22	S	34	E	1980	S	2310	W
30-025-41458	TOUR BUS STATE COM	1H	EOG RESOURES INC	0	O	N	Lea	S	N	23	22	S	34	E	200	S	2180	W
30-025-40934	MERCHANT LIVESTOCK 24 STATE COM	1H	GMT EXPLORATION COMPANY LLC	11176	O	A	Lea	S	M	24	22	S	34	E	20	S	380	W
30-025-30604	OJO CHISO FEDERAL	1	BTA OIL PRODUCERS	13600	G	A	Lea	F	E	26	22	S	34	E	990	N	2310	W
30-025-43393	PERRO LOCO 22 B3PA FEDERAL	1H	MEWBOURNE OIL CO	0	O	N	Lea	F	A	27	22	S	34	E	200	N	500	E

WELLBORE SCHEMATIC AND HISTORY



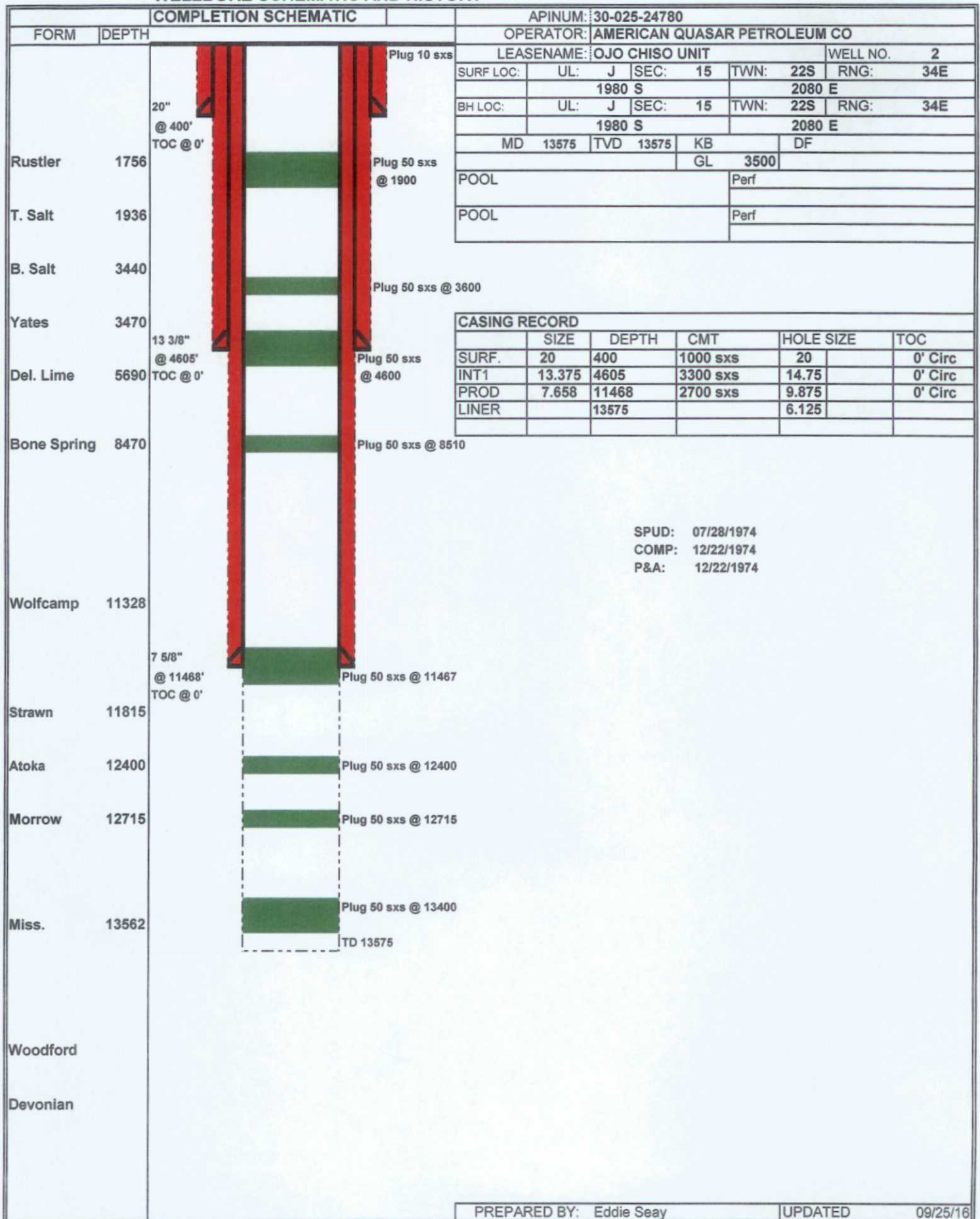
WELLBORE SCHEMATIC AND HISTORY



COMPLETION SCHEMATIC

PREPARED BY: Eddie Seay	UPDATED	09/25/16
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WELLBORE SCHEMATIC AND HISTORY



COMPLETION SCHEMATIC

PREPARED BY: Eddie Seay	UPDATED	09/25/16
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Water Sample Analysis

Pool	Section	Location Township	Range	Chlorides
North Justis Montoya	2	25S	37E	45440
North Justis McKee	2	25S	37E	58220
North Justis Fusselman	2	25S	37E	68533
North Justis Ellenburger	2	25S	37E	34151
Fowler Blinbry	22	24S	37E	116085
Skaggs Grayburg	18	20S	38E	84845
Warren McKee	18	20S	38E	85910
Warren Abo	19	20S	39E	91800
OK Drinkard	30	20S	39E	108855
Littman San Andres	8	21S	38E	38895
East Hobbs grayburg	29	18S	39E	6461
Halfway Yates	16	20S	32E	14768
Arkansas Junction San Andres	12	18S	38E	7171
Pearl Queen	28	19S	35E	114310
Midway Abo	17	17S	37E	38494
Lovinton Abo	31	16S	37E	22933
Lovington San Andres	3	16S	37E	4899
Lovington Paddock	31	16S	37E	93720
Mesa Queen	17	16S	32E	172530
Kamnitz Wolfcamp	27	16S	34E	49345
Hume Queen	9	16S	34E	124960
Anderson Ranch Wolfcamp	2	16S	32E	11040
Anderson Ranch Devonian	11	16S	32E	25702
Anderson Ranch Unit	11	16S	32E	23786
Caudill Devonian	9	15S	36E	20874
Townsend Wolfcamp	6	16S	36E	38895
Dean Perno Perin	5	16S	37E	44730
Dean Devonian	35	15S	36E	19525
South Denton Wolfcamp	26	15S	37E	54315
South Denton Devonian	36	15S	37E	34080
Medicine Rock Devonian	15	15S	38E	39760
Little Lucky-Lake Devonian	29	15S	30E	23288
Wanitz Abo	26	21S	37E	132770
Crosby Devonian	18	25S	37E	58220
Scarborough Yates Seven Rivers	7	26S	37E	3443(Reef)
Teague Simpson	34	23S	37E	114665
Teague-Ellenburger	34	23S	37E	120345
Rhodes Yates 7 Rivers	27	26S	37E	144485
House SA	11	20S	38E	93365
House Drinkard	12	20S	38E	49700
South Leonard Queen	24	26S	37E	115375
Elliot Abo	2	21S	38E	55380
Scharb Bone Springs	5	19S	35E	30601
EK Queen	13	18S	34E	41890
East EK Queen	22	18S	34E	179630
Maljamar Grayburg SA	22	17S	32E	46079
Maljamar Paddock	27	17S	32E	115375
Maljamar Devonian	22	17S	32E	25418

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: **WadeCo Specialties, LLC**

Well Number: Giant Superior St. #3
Lease: Harvard
Location: WC9434
Date Run: 1/14/2013
Lab Ref #: 13-jan-h10083

Sample Temp: 70
Date Sampled: 1/7/2013
Sampled by: Wade Havens
Employee #:
Analyzed by: GR

Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H2S)	.00	16.00	.00
Carbon Dioxide	(CO2)	NOT ANALYZED		
Dissolved Oxygen	(O2)	NOT ANALYZED		

Cations

Calcium	(Ca++)	7,147.56	20.10	355.60
Magnesium	(Mg++)	1,761.68	12.20	144.40
Sodium	(Na+)	44,424.72	23.00	1,931.51
Barium	(Ba++)	NOT ANALYZED		
Manganese	(Mn+)	4.70	27.50	.17

Anions

Hydroxyl	(OH-)	.00	17.00	.00
Carbonate	(CO3=)	.00	30.00	.00
BiCarbonate	(HCO3-)	48.88	61.10	.80
Sulfate	(SO4=)	10.00	48.80	.20
Chloride	(Cl-)	86,294.82	35.50	2,430.84

Total Iron	(Fe)	3.06	18.60	.16
Total Dissolved Solids		139,695.42		
Total Hardness as CaCO3		25,091.79		
Conductivity MICROMHOS/CM		169,200		

pH	7.230	Specific Gravity 60/60 F.	1.097
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CaSO4 Solubility @ 80 F. 31.49MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	.336	100.0	.666	130.0	1.236
80.0	.426	110.0	.946	140.0	1.236
90.0	.666	120.0	.946	150.0	1.576

Delaware Produced Water

WadeCo Specialties, LLC

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: CYPRESS 33 #2
Project Number: LAGUNA GRANDE
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-Jan-16 16:25

CYPRESS 33 #2
H600050-01 (Wastewater)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	142		5.00	mg/L	1	5120206	AP	13-Jan-16	310.1	
Alkalinity, Carbonate	<0.00		0.00	mg/L	1	5120206	AP	13-Jan-16	310.1	
Chloride*	104000		4.00	mg/L	1	6010807	AP	12-Jan-16	4500-Cl-B	
Conductivity*	301000		1.00	uS/cm	1	6011307	AP	14-Jan-16	120.1	
pH*	6.56		0.100	pH Units	1	6011306	AP	14-Jan-16	9045	
Sulfate*	576		83.3	mg/L	8.33	6011202	AP	12-Jan-16	375.4	
TDS*	168000		5.00	mg/L	1	6011104	AP	12-Jan-16	160.1	
Alkalinity, Total*	116		4.00	mg/L	1	5120206	AP	13-Jan-16	310.1	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Calcium*	8530		5.00	mg/L	250	B601100	JLM	21-Jan-16	EPA200.7	
Magnesium*	1230		25.0	mg/L	250	B601100	JLM	21-Jan-16	EPA200.7	
Potassium*	833		250	mg/L	250	B601100	JLM	21-Jan-16	EPA200.7	
Sodium*	58300		250	mg/L	250	B601100	JLM	21-Jan-16	EPA200.7	

Bone Springs Produced water

Cardinal Laboratories

*=Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager



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		Q Q Q					X	Y	Depth Well	Depth Water	Water Column			
	Sub-Code	basin	County	64	16	4	Sec						Tws	Rng	
<u>CP 00380</u>			LE	4	2	11	22S	34E	647245	3586739*		45	30	15	
<u>CP 00596</u>			LE	4	2	11	22S	34E	647245	3586739*		50			
<u>CP 00597</u>			LE	2	2	08	22S	34E	642410	3587074*		35			
<u>CP 00598</u>			LE	4	1	23	22S	34E	646480	3583511*		70			
<u>CP 00599</u>			LE	1	1	12	22S	34E	647642	3587147*		62	50	12	
<u>CP 00604</u>			LE	1	4	4	01	22S	34E	648743	3587666*		135		
<u>CP 00704</u>			LE	2	4	22	22S	34E	645681	3583097*		600			
<u>CP 00744</u>			LE	1	2	09	22S	34E	643618	3587091*		460			
<u>CP 00751</u>			LE	4	2	11	22S	34E	647245	3586739*			45		
<u>CP 00865</u>			LE	1	1	4	20	22S	34E	641957	3583146		885	605	280
<u>CP 00933</u>			LE	1	1	1	12	22S	34E	647541	3587246*		60		
<u>CP 00934</u>			LE	2	1	2	01	22S	34E	648682	3588822		60	42	18
<u>CP 01362 POD1</u>			LE	3	4	4	18	22S	34E	640809	3584182		1032	613	419
<u>CP 01455 POD1</u>			LE	4	1	4	18	22S	34E	640574	3584515		1033	615	418

Average Depth to Water: 285 feet

Minimum Depth: 30 feet

Maximum Depth: 615 feet

Record Count: 14

Basin/County Search:

County: Lea

PLSS Search:

Township: 22S

Range: 34E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/30/16 12:25 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609370

Date Reported: 9/15/2016

CLIENT: Grama Ridge Disposal

Client Sample ID: WW CP 00598

Project: Water Well CP 00598

Collection Date: 9/6/2016 9:50:00 AM

Lab ID: 1609370-001

Matrix: AQUEOUS

Received Date: 9/8/2016 11:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Fluoride	2.6	0.10		mg/L	1	9/8/2016 4:01:44 PM
Chloride	490	25	*	mg/L	50	9/15/2016 5:14:01 AM
Nitrogen, Nitrite (As N)	ND	0.10	H	mg/L	1	9/8/2016 4:01:44 PM
Bromide	3.8	0.10		mg/L	1	9/8/2016 4:01:44 PM
Nitrogen, Nitrate (As N)	33	2.0	*H	mg/L	20	9/8/2016 4:38:57 PM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	9/8/2016 4:01:44 PM
Sulfate	820	10	*	mg/L	20	9/8/2016 4:38:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

GRAMA RIDGE DISPOSAL, LLC

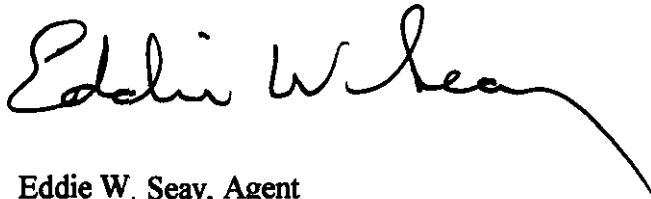
RE: Ojo Chiso #1 (API 30-025-24459)
Unit E, Sect. 23, T. 22 S., R. 34 E.

Dear Sir:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject into the above captioned well to be drilled.

Any questions about the permit can be directed to Eddie W. Seay, (575)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

A handwritten signature in black ink that reads "Eddie W. Seay". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
(575)392-2236
seay04@leaco.net

OFFSET OPERATORS AND MINERALS

LANDOWNER - SURFACE

Merchant Livestock et al
P.O. Box 1105
Eunice, NM 88231

MINERAL OWNER

State of NM-State Land Office
310 Old Santa Fe Trail
Box 1148
Santa Fe, NM 87504-1148

OFFSET SURFACE & MINERALS

Bureau of Land Management
620 E. Green St.
Carlsbad, NM 88220

OFFSET OPERATORS

NO PRODUCING WELLS IN AOR FOR PROPOSED SWD

MINERAL LEASEES

BTA Oil Producers
104 S. Pecos
Midland, TX 79701

Mewbourne Oil Co.
Box 5270
Hobbs, NM 88241

7014 3490 0002 2315 7071

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 Total Postage & Fees \$ 7.99

OCT 04 2016

Postmark Here

Sent To **Bureau of Land Management**
 Street & Apt. No. or PO Box **620 E. Green St.**
 City, State, ZIP+4 **Carlsbad, NM 88220**

PS Form 3800, July 2014

See Reverse for Instructions

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 Street & Apt. No. or PO Box **Box 5270**
 City, State, ZIP+4 **Hobbs, NM 88241**

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Sent To **State of NM - State Land Office**
 Street & Apt. No. or PO Box No. **310 Old Santa Fe Trail**
 City, State, ZIP+4 **Box 1148 Santa Fe, NM 87504-1148**

PS Form 3800, July 2014

See Reverse for Instructions

4502 5122 2000 064E 4102

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 Street & Apt. No. or PO Box **404 S. Pecos**
 City, State, ZIP+4 **Midland, TX 79701**

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 Return Receipt Fee (Endorsement Required) 2.70
 Restricted Delivery Fee (Endorsement Required)
 Total Postage & Fees \$ 7.78

OCT 04 2016

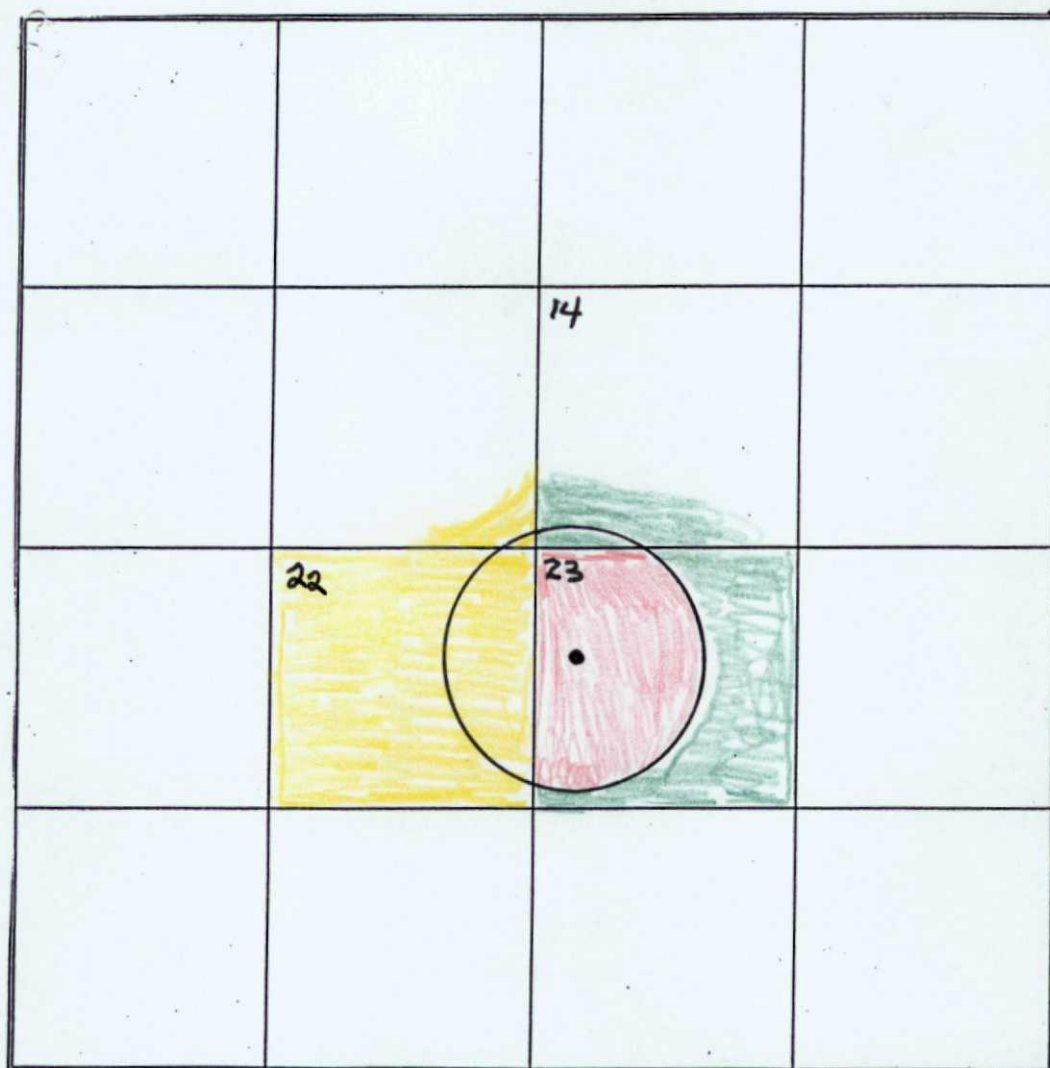
Postmark Here

Sent To **Merchant Livestock, et al**
 Street & Apt. No. or PO Box **P.O. Box 1105**
 City, State, ZIP+4 **Eunice, NM 88231**

PS Form 3800, July 2014

See Reverse for Instructions

Proposed SWD Unit E Sect 23 - T. 22 R. 34



- Surface owner Merchant Livestock all of Section 23
- State of NM - Mineral and/or surface
- BLM - Mineral & Surface

Marathon - mineral east $\frac{1}{2}$ of section 22

BTA - Mineral section 23 and 14

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Grama Ridge Disposal, LLC, Box 1105, Eunice, NM 88231, is filing a C-108 Application for Salt Water Disposal. The well being applied for is the Ojo Chiso #1, API 30-025-24459, located in Unit E, Section 23, Township 22 South, Range 34 East, Lea Co., NM. The injection formations are the Mississippian, Woodford and Devonian from 13360' to 15000' below surface. Expected maximum injection rate is 15,000 bpd., and the expected maximum injection pressure is 2650 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575)392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505)476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

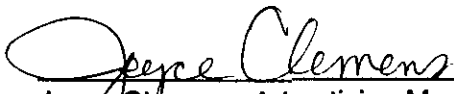
Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Manager of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of October 4, 2016 and ending with the issue of October 4, 2016.

And that the cost of publishing said notice is the sum of \$ 26.35 which sum has been (Paid) as Court Costs.

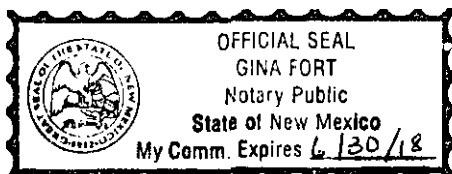

Joyce Clemens, Advertising Manager
Subscribed and sworn to before me this 10th day of October, 2016.


Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2018

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Grama Ridge Disposal, LLC, Box 1105, Eunice, NM 88231, is filing a C-108 Application for Salt Water Disposal. The well being applied for is the Ojo Chiso #1, API 30-025-24459, located in Unit E, Section 23, Township 22 South, Range 34 East, Lea Co., NM. The injection formations are the Mississippian, Woodford and Devonian from 13360' to 15000' below surface. Expected maximum injection rate is 15,000 bpd., and the expected maximum injection pressure is 2650 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575) 392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505) 476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

Published in the Lovington Leader October 4, 2016.



McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Thursday, October 20, 2016 3:42 PM
To: 'Rena Seay'
Cc: Jones, William V, EMNRD; Goetze, Phillip, EMNRD
Subject: Grama Ridge Disposal LLC Ojo Chiso SWD Well No. 1

Eddie:

I received your administrative application for the Grama Ridge Disposal LLC Ojo Chiso SWD Well No. 1 on Thursday October 20, 2016.

The OCD will require the following information:

I need the return receipts for the affected parties.

Next, the OCD will allow for injection into the deepest formation that was applied for in your application-the Devonian, from 14640 feet to 15000 feet. As a result, the OCD will require Grama Ridge to run casing through the Woodford, and set the packer within 100 feet of the injection interval. You will be expected to update the wellbore diagram.

If the Devonian is unsuccessful, then Grama Ridge can re-apply for the next uphole formation.

Further, Grama Ridge will be expected to supply to the Division the results of the DST in the Devonian formation.

Your application will be suspended for 10-days

If the required information is not received within 10-days your application will be cancelled.

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

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Jackie Lathan</u> C. Date of Delivery <u>10/9/16</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>	
<p>1. Article Addressed to:</p> <p>Mewbourne Oil Co. Box 5270 Hobbs, NM 88241</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
<p>2. Article (Transit) <u>7014 3490 0002 2315 7064</u></p> <p>PS Form 3811, July 2013 Domestic Return Receipt</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

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<p>1. Article Addressed to:</p> <p>Merchant Livestock, et al P.O. Box 1105 Eunice, NM 88231</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
<p>2. Article (Transit) <u>7014 3490 0002 2315 7040</u></p> <p>PS Form 3811, July 2013 Domestic Return Receipt</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
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<p>1. Article Addressed to:</p> <p>Bureau of Land Management 620 E. Green St. Carlsbad, NM 88220</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
<p>2. Article Number (Transfer from) <u>7014 3490 0002 2315 7071</u></p> <p>PS Form 3811, July 2013 Domestic Return Receipt</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

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<p>1. Article Addressed to:</p> <p>State of NM - State Land Office 310 Old Santa Fe Trail Box 1148 Santa Fe, NM 87504-1148</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
<p>2. Article (Transit) <u>7014 3490 0002 2315 7088</u></p> <p>PS Form 3811, July 2013 Domestic Return Receipt</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

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<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <u>Thomas J BAKER</u> C. Date of Delivery <u>10/11/16</u></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If YES, enter delivery address below:</p>	
<p>1. Article Addressed to:</p> <p>BTA Oil Producers 104 S. Pecos Midland, TX 79701</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
<p>2. Article (Transit) <u>7014 3490 0002 2315 7057</u></p> <p>PS Form 3811, July 2013 Domestic Return Receipt</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	



C-108 Review Checklist:

Received: 10/20/2016 Add. Request: 10/27/2016 Reply Date: 11/8/2016 Suspended: [Var 15]

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

Well No. 1 Well Name(s): Ogochiso

API: 30-0 25-24459 Spud Date: 6/30/73 New or Old: (UIC Class II Primacy 03/07/1982)

Footages 1880FWL 660FWL Lot or Unit E Sec 23 Tsp 225 Rge 34E County LCC

General Location: 2 1/4 miles SW E 4 mile Pool: SWD, DEVOH 164 Pool No.:

BLM 100K Map: JAL Operator: Ridge Disposal LLC OGRID: Contact:

COMPLIANCE RULE 5.9: Total Wells: 0 Inactive: 0 Fincl Assur: Y Compl. Order? MA IS 5.9 OK? Y Date: 11-8-2016

WELL FILE REVIEWED (1) Current Status: P&A

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

Planned Rehab Work to Well: see below

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and Determination Method
		Borehole / Pipe	Depths (ft)	Sx of Cf	
Planned ___ or Existing ___ Surface	26/20"	650	Stage Tool	356	SURFACE / VISUAL
Planned ___ or Existing ___ Intern/Prod	17 1/2" / 13 3/4"	4551		2660	
Planned ___ or Existing ___ Intern/Prod	12 1/4" / 9 3/4"	11324		1875	3700 / CALC
Planned ___ or Existing ___ Prod/Liner	8 1/2" / 7 1/4"	13360			11057
Planned ___ or Existing ___ Liner	5 1/2" / 5"			23500	SURFACE *
Planned ___ or Existing ___ (OH) PERF	14 1/2" / 150		Inj Length	538	
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.			Units	Drilled TD	14735 PBDT
Confining Unit: Litho. Struc. Por.				NEW TD	15000 NEW PBDT
Proposed Inj Interval TOP:			Tops	NEW Open Hole () or NEW Perfs ()	
Proposed Inj Interval BOTTOM:				Tubing Size in. Inter Coated?	
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth ft	
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth (100-ft limit)	
				Proposed Max. Surface Press. psi	
				Admin. Inj. Press. (0.2 psi per ft)	

AOR: Hydrologic and Geologic Information

POTASH: R-111-P Noticed? BLM Sec Ord () WIPP () Noticed? Salt/Salado T: 1100B 5400 NW: Cliff House fm

FRESH WATER: Aquifer MAYBE TO 14110000 70 Max Depth 20600 HYDRO AFFIRM STATEMENT By Qualified Person ()

NMOSE Basin: CAPITAN REEF: () adj NA No. Wells within 1-Mile Radius? 1 FW Analysis Y

Disposal Fluid: Formation Source(s) DEVOH 164 Analysis? On Lease () Operator Only () or Commercial ()

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

HC Potential: Producing Interval? MA Formerly Producing? Method: Log/DST/P&A/Other 2-Mile Radius Pool Map ()

AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: 0 Horizontals?

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

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

NOTICE: Newspaper Date 10-04-2016 Mineral Owner NMSU-1000 Surface Owner MERRILL LIVINGSTON N. Date 10/4/16

RULE 26.7(A): Identified Tracts? Y Affected Persons: MERRILL LIVINGSTON, BTA N. Date

Order Conditions: Issues: see below

Add Order Cond:

Instructions: 1. If deepening well to 14300' - CIRCULATE cement 5-2' / casing SURFACE