

11/24/2015 DATE IN	SUSPENSE	PRG ENGINEER	12/02/2015 LOGGED IN	SWD TYPE	PMAM1533637710 APP NO.
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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 _____

-SWD
-Grama Ridge Disposal LLC
370997

[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
-Packer 18 State 41
30-025-35108
Pool
-SWD, Delaware
96100

2015 NOV 25 P 2:41
RECEIVED OOD

[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
Print or Type Name

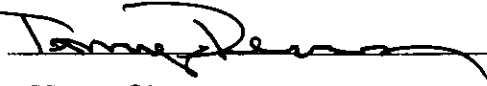
Eddie W. Seay
Signature

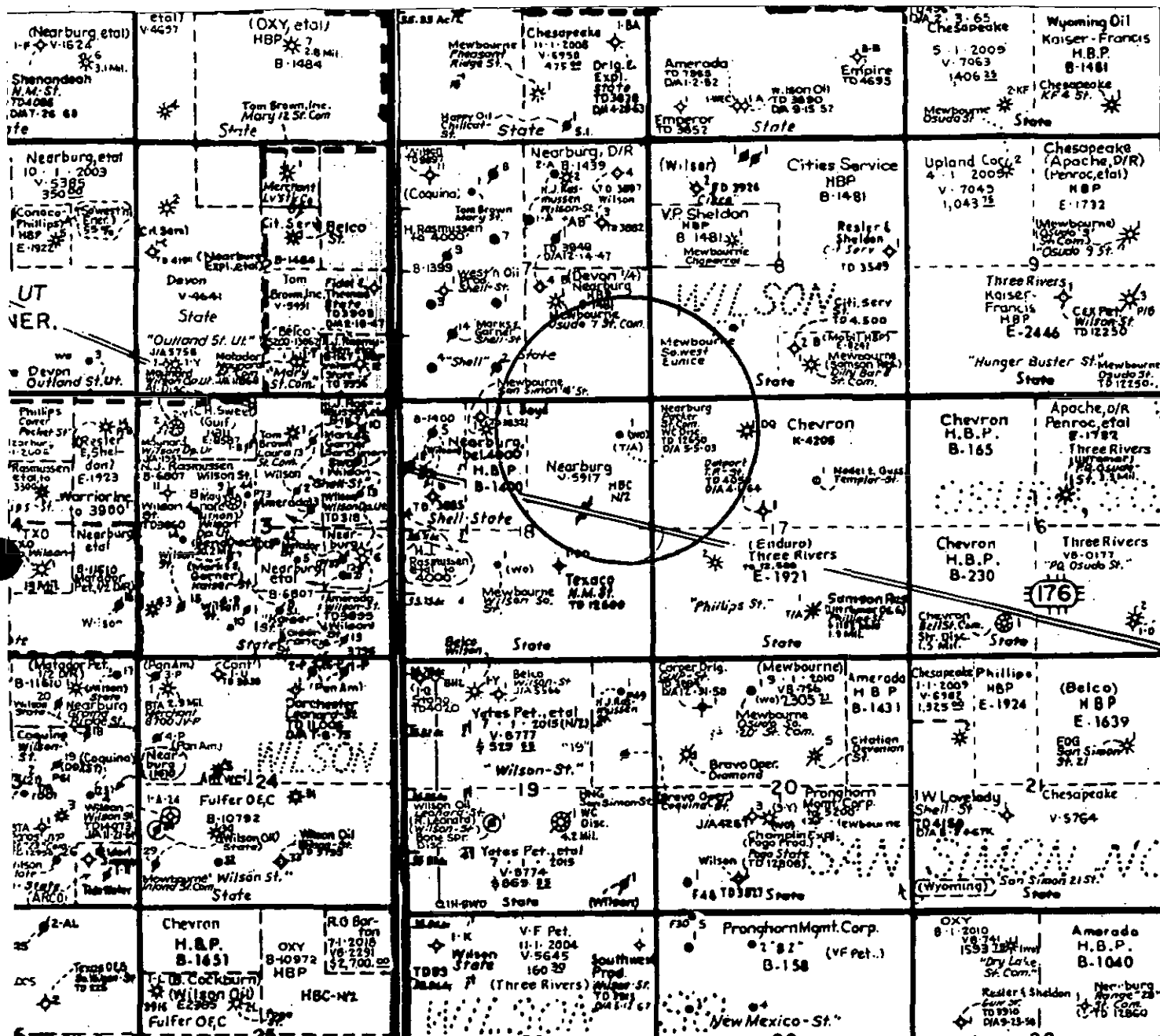
Agent
Title

11/15/15
Date

seay@leace.net
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Grama Ridge Disposal, LLC
ADDRESS: 120 North Canyon, Carlsbad, NM 88220
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: 11/15/15
E-MAIL ADDRESS: tsp@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: logs filed when drilled
- DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office



ATTACHMENT TO APPLICATION C-108

Packer 18 State #1 (API 30-025-35108)
Unit A, Sect. 18, Tws. 21 S., Rng. 35 E.
Lea Co., 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 1/2" coated tubing.
 - 4) Baker lock set or the equivalent.
- B.
 - 1) Injection formation is the Delaware Sand.
 - 2) Injection interval 5630' to 6290' ✓
 - 3) This is a plugged and abandoned well converted to SWD.
 - 4) The next higher producing zone is the base of the Yates at 3695' ✓
The next lower producing zone is the Bone Springs at approximately 7658' ✓

IV. NO.

V. MAP ATTACHED.

VI. LIST OF WELLS AND DATA ATTACHED.

VII. Grama Ridge plans to re-enter the plugged Packer 18 State well and convert to a commercial Delaware Disposal. Plan to drill out all plugs down to 7" casing stub at 6300', run 7" casing from surface to stub, and circulate cement to surface. Test casing. Selectively perforate 7" casing from 5630' to 6290', acidize as needed. Run 4 1/2" plastic coated tubing and 7" packer and set within 100 ft. of upper most perms. Notify OCD, load backside and test as required. Put in service.

- 1) Plan to inject approximately 10,000 bpd of produced water.
- 2) Commercial SWD.
- 3) Average injection pressure should be approximately 1100# or whatever limit OCD allows.
- 4) Produced water from various operators and formations.

VIII. The proposed disposal formation is interbedded sand and limestone. The primary geologic formation is the Lower Delaware from 5630' to 6290'.

The fresh water formation for this area would be the Santa Rosa which would be between 300' to 400' below surface. See attached water analysis.

IX. ACID AS NEEDED.

*2 wells
from SF*

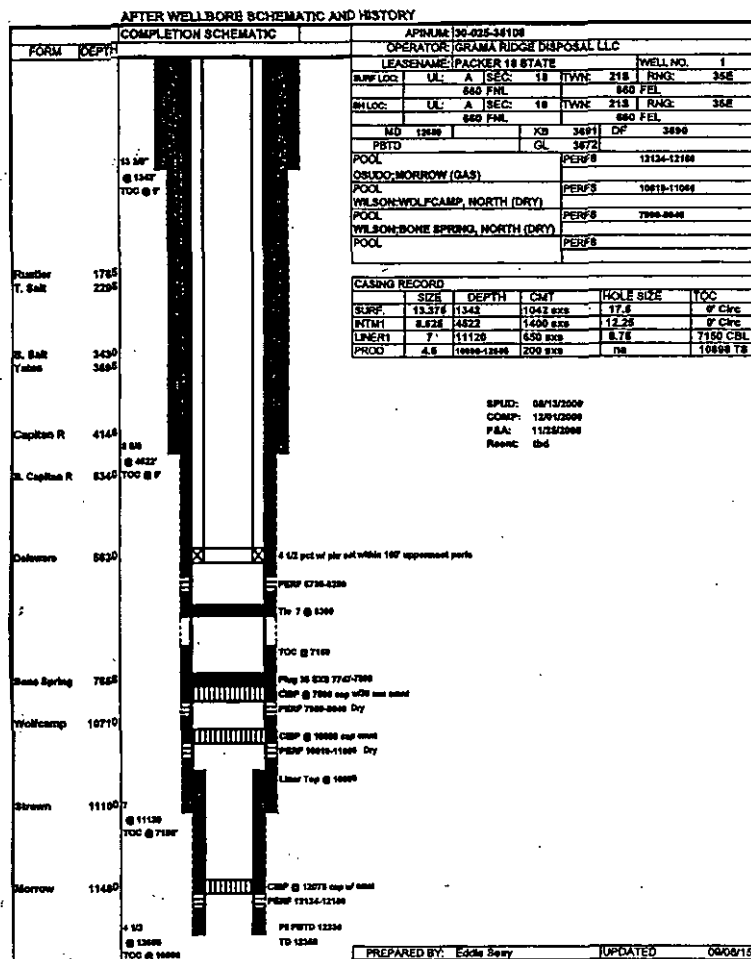
X. PREVIOUSLY SUBMITTED TO OCD.

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.

INJECTION WELL DATA SHEET

OPERATOR: Grama Ridge Disposal LLCWELL NAME & NUMBER: Packer 18 State #1 (API 30-025-35108)WELL LOCATION: 660/N 660/E A 18 21 35E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17.5 Casing Size: 13.375Cemented with: 1042 SX. or ft³Top of Cement: Surface Method Determined: CoreIntermediate CasingHole Size: 12.25 Casing Size: 8.625Cemented with: 1400 SX. or ft³Top of Cement: Surface Method Determined: CoreProduction CasingHole Size: 8 Casing Size: 7Cemented with: App. 700 SX. or ft³Top of Cement: Tie to stat 6300 and Core. Method Determined: Calc
Total Depth: 12650 2nd Back to 6300.Injection Interval5630 feet to 6290

(Perforated) or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4 1/2 Lining Material: IPC
Type of Packer: Baker loc set or the equivalent
Packer Setting Depth: Appx 5530 or within 100 ft of top perf.
Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection? Yes X No
If no, for what purpose was the well originally drilled? oil & gas
in Morrow
2. Name of the Injection Formation: Delaware
3. Name of Field or Pool (if applicable): Wilson
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Tested in
Morrow, Wolfcamp, Bone Spring / Plugs listed on schematic
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
the zone overlying is the Yates at 3695
the zone underlying is the Bone Spring 2658

DISPOSAL WELL

30-025-35108	PACKER 18 STATE	1	GRAM RIDGE DISPOSAL LLC	12650	O	P	Lea	S	A	18	21	S	35	E	660	N	660	E
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Wells within 1/2 mile of proposed disposal well.

API #	PROPERTY NAME	#	OPERATOR	TD	TYPE	STATUS	CO	LAND	U/L	SEC	TWN	RNG	N/S	E/W	Dist
30-025-24755	NEW MEXICO DQ STATE	1	CHEVRON U S A INC	12350	G	A	Lea	S	C	17	21 S	35 E	660 N	1980 W	2640


30-025-37272 - outside of 1/2 mile - cmt is adequate.

San Simon 18 State Com #1

Mesquite - Active - Morrow

C-18-21S-35E

[13 7/8" @ 1455'; cmt to surface / 9 5/8" @ 5454'; DV at 3755'; 2 stage + 3 trimma
(not circ) up into 13 7/8" & surface
5 1/2" @ 12500'; 800 x - 100 8866'

660FNL 1838 FWL 

COMPLETION SCHEMATIC

09/08/15

AFTER WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		APINUM: 30-025-35108																																					
FORM	DEPTH	OPERATOR: GRAMA RIDGE DISPOSAL LLC																																					
		LEASENAME: PACKER 18 STATE WELL NO. 1																																					
		SURF LOC: UL: A SEC: 18 TWN: 21S RNG: 35E																																					
		660 FNL 660 FEL																																					
		BH LOC: UL: A SEC: 18 TWN: 21S RNG: 35E																																					
		660 FNL 660 FEL																																					
		MD 12650 KB 3691 DF 3690																																					
		PBTD GL 3672																																					
		POOL OSUDO;MORROW (GAS) PERFS 12124-12166																																					
		POOL WILSON;WOLFCAMP, NORTH (DRY) PERFS 10819-11066																																					
		POOL WILSON;BONE SPRING, NORTH (DRY) PERFS 7990-8046																																					
POOL PERFS																																							
<table border="1"> <thead> <tr> <th colspan="6">CASING RECORD</th> </tr> <tr> <th></th> <th>SIZE</th> <th>DEPTH</th> <th>CMT</th> <th>HOLE SIZE</th> <th>TOC</th> </tr> </thead> <tbody> <tr> <td>SURF.</td> <td>13.375</td> <td>1342</td> <td>1042 sxs</td> <td>17.5</td> <td>0' Circ</td> </tr> <tr> <td>INTM1</td> <td>8.625</td> <td>4522</td> <td>1400 sxs</td> <td>12.25</td> <td>0' Circ</td> </tr> <tr> <td>LINER1</td> <td>7</td> <td>11120</td> <td>650 sxs</td> <td>8.75</td> <td>7150 CBL</td> </tr> <tr> <td>PROD</td> <td>4.5</td> <td>10898-12650</td> <td>200 sxs</td> <td>na</td> <td>10898 TS</td> </tr> </tbody> </table>				CASING RECORD							SIZE	DEPTH	CMT	HOLE SIZE	TOC	SURF.	13.375	1342	1042 sxs	17.5	0' Circ	INTM1	8.625	4522	1400 sxs	12.25	0' Circ	LINER1	7	11120	650 sxs	8.75	7150 CBL	PROD	4.5	10898-12650	200 sxs	na	10898 TS
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Rustler T. Salt	1765 2295	SPUD: 08/13/2000 COMP: 12/01/2000 P&A: 11/25/2008 Reent: tbd																																					
B. Salt Yates	3430 3695																																						
Capitan R	4146																																						
B. Capitan R	5340																																						
Delaware	5630	4 1/2 inch packer set within 100' uppermost perfs																																					
		PERF 5730-6290																																					
		Tie 7 @ 6300																																					
		TOC @ 7150																																					
Bone Spring	7658	Plug 30 SXS 7747-7890																																					
		CIBP @ 7890 cap w/30 sxs cmnt																																					
		PERF 7999-8046 Dry																																					
Wolfcamp	10710	CIBP @ 10800 cap cmnt																																					
		PERF 10819-11066 Dry																																					
		Liner Top @ 10898																																					
Strawn	11100	7																																					
		@ 11120																																					
		TOC @ 7150'																																					
Morrow	11480	CIBP @ 12075 cap w/ cmnt																																					
		PERF 12124-12166																																					
		4 1/2 inch PE PBTD 12336 TD 12350 TOC @ 10898																																					

PREPARED BY: Eddie Seay

UPDATED

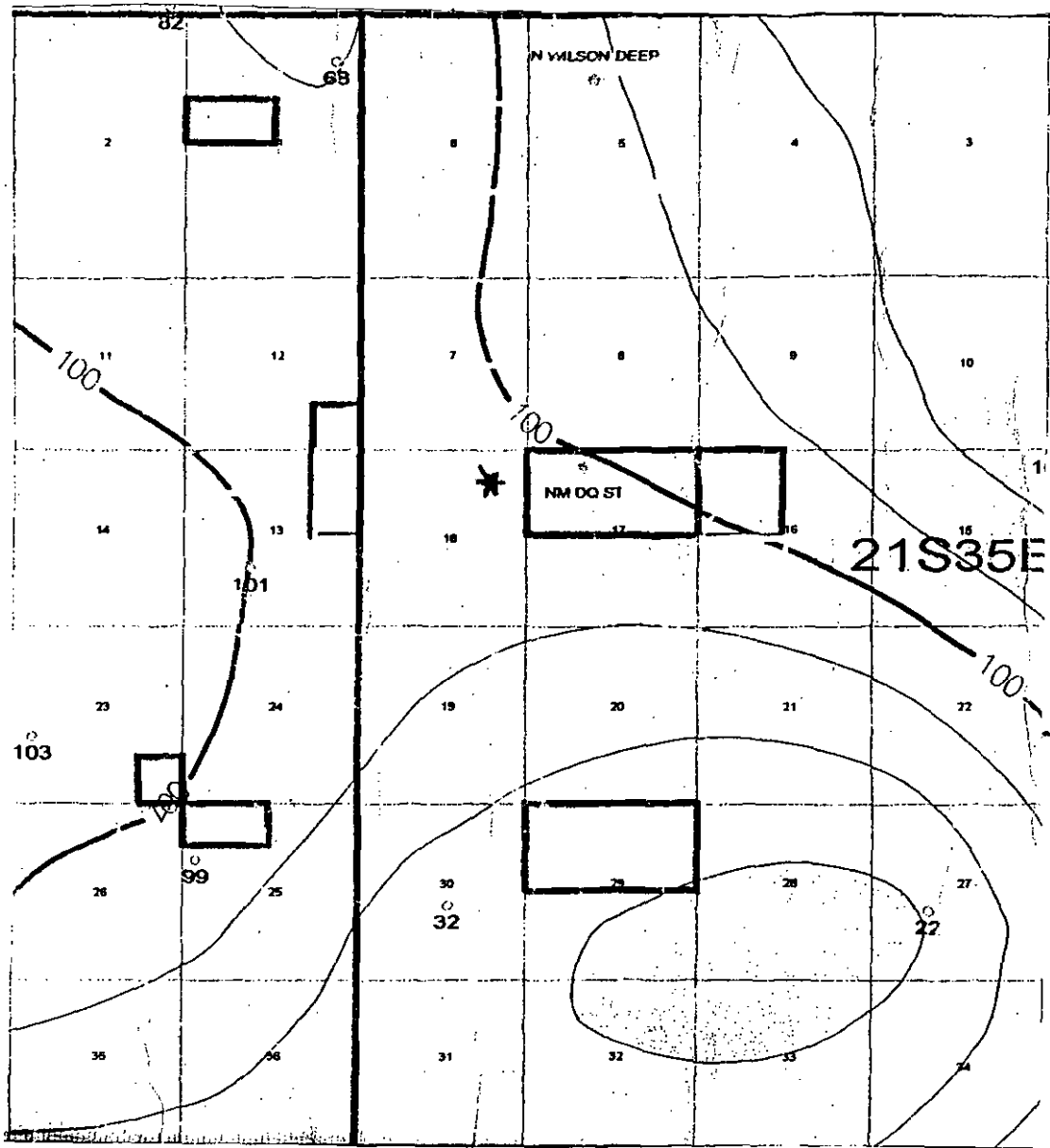
09/08/15

COMPLETION SCHEMATIC

PREPARED BY: Eddie Seay	UPDATED	09/08/15
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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 Billiebury	22	24S	37E	116085
Skaggs Grayburg	18	20S	38E	84845
Warren McKee	18	20S	38E	85910
Warren Abo	19	20S	39E	91600
DK Drinkard	30	20S	39E	108855
Littman San Andres	8	21S	38E	38895
East Hobbs grayburg	29	18S	39E	6461
Halfway Yates	18	20S	32E	14788
Arkansas Junction San Andres	12	18S	38E	7171
Pearl Queen	28	19S	35E	114310
Midway Abo	17	17S	37E	38494
Lovinton Abo	31	18S	37E	22933
Lovington San Andres	3	18S	37E	4899
Lovington Paddock	31	18S	37E	93720
Mesa Queen	17	18S	32E	172530
Kemnitz Wolfcamp	27	18S	34E	49345
Hume Queen	9	18S	34E	124980
Anderson Ranch Wolfcamp	2	18S	32E	11040
Anderson Ranch Devonian	11	18S	32E	25702
Anderson Ranch Unit	11	18S	32E	23788
Caudill Devonian	9	15S	36E	20874
Townsend Wolfcamp	6	18S	38E	38895
Dean Pemo Perin	5	18S	37E	44730
Dean Devonian	35	15S	38E	19525
South Denton Wolfcamp	28	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
Waritz 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	114685
Teague-Ellenburger	34	23S	37E	120345
Rhodes Yates 7 Rivers	27	28S	37E	144485
House SA	11	20S	38E	93385
House Drinkard	12	20S	38E	49700
South Leonard Queen	24	28S	37E	115375
Elliot Abo	2	21S	38E	55380
Scharb Bone Springs	5	19S	35E	30801
EK Queen	13	18S	34E	41890
East EK Queen	22	18S	34E	179830
Mallamar Grayburg SA	22	17S	32E	48079
Mallamar Paddock	27	17S	32E	115375
Mallamar Devonian	22	17S	32E	25418



Groundwater Map

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: **X-Chem**

Well Number: Water Well #1?
Lease: Battle
Location:
Date Run: 6/29/2015
Lab Ref #: 15-jun-w70820

Sample Temp: 70
Date Sampled: 6/25/2015
Sampled by: Robert Halsell
Employee #:
Analyzed by: GR

Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H ₂ S)	.00	16.00	.00
Carbon Dioxide	(CO ₂)	NOT ANALYZED		
Dissolved Oxygen	(O ₂)	NOT ANALYZED		

Cations

Calcium	(Ca++)	28.06	20.10	1.40
Magnesium	(Mg++)	25.13	12.20	2.06
Sodium	(Na+)	408.04	23.00	17.74
Barium	(Ba++)	NOT ANALYZED		
Manganese	(Mn+)	.35	27.50	.01
Strontium	(Sr++)	NOT ANALYZED		

Anions

Hydroxyl	(OH-)	.00	17.00	.00
Carbonate	(CO ₃ =)	.00	30.00	.00
BiCarbonate	(HCO ₃ -)	317.72	61.10	5.20
Sulfate	(SO ₄ =)	360.00	48.80	7.38
Chloride	(Cl-)	330.36	35.50	9.31
Total Iron	(Fe)	12.53	18.60	.67
Total Dissolved Solids		1,482.19		
Total Hardness as CaCO ₃		173.18		
Conductivity MICROMHOS/CM		2,318		

pH 9.030

Specific Gravity 60/60 F.

1.001

CaSO₄ Solubility @ 80 F. 17.19MEq/L, CaSO₄ scale is unlikely

CaCO₃ Scale Index

70.0	.803	100.0	1.153	130.0	1.663
80.0	.933	110.0	1.393	140.0	1.663
90.0	1.153	120.0	1.393	150.0	1.893

X-Chem

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: **X-Chem**

Well Number: Water Well #2
Lease: Battle
Location:
Date Run: 6/29/2015
Lab Ref #: 15-jun-w70821

Sample Temp: 70
Date Sampled: 6/25/2015
Sampled by: Robert Halsell
Employee #:
Analyzed by: GR

Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H ₂ S)	.00	16.00	.00
Carbon Dioxide	(CO ₂)	NOT ANALYZED		
Dissolved Oxygen	(O ₂)	NOT ANALYZED		

Cations

		Mg/L	Eq. Wt.	MEq/L
Calcium	(Ca++)	20.42	20.10	1.02
Magnesium	(Mg++)	8.49	12.20	.70
Sodium	(Na+)	115.34	23.00	5.01
Barium	(Ba++)	NOT ANALYZED		
Manganese	(Mn+)	.27	27.50	.01
Strontium	(Sr++)	NOT ANALYZED		

Anions

		Mg/L	Eq. Wt.	MEq/L
Hydroxyl	(OH-)	.00	17.00	.00
Carbonate	(CO ₃ =)	.00	30.00	.00
BiCarbonate	(HCO ₃ -)	244.40	61.10	4.00
Sulfate	(SO ₄ =)	69.00	48.80	1.41
Chloride	(Cl-)	53.06	35.50	1.49
Total Iron	(Fe)	3.2	18.60	.17
Total Dissolved Solids		514.18		
Total Hardness as CaCO ₃		85.86		
Conductivity MICROMHOS/CM		743		

pH 8.980 Specific Gravity 60/60 F. 1.000

CaSO₄ Solubility @ 80 F. 19.79MEq/L, CaSO₄ scale is unlikely

CaCO₃ Scale Index

70.0	.501	100.0	.851	130.0	1.361
80.0	.631	110.0	1.091	140.0	1.361
90.0	.851	120.0	1.091	150.0	1.591

X-Chem

Packer 18 State

	Melbourne <u>State</u>	Melbourne <u>State</u>	
	18 Newburg Melbourne <u>State</u>	• Chevron ----- Three Rivers <u>State</u>	

• Proposed SWD

GRAMA RIDGE DISPOSAL, LLC
(OGRID # 370997)

November 2015

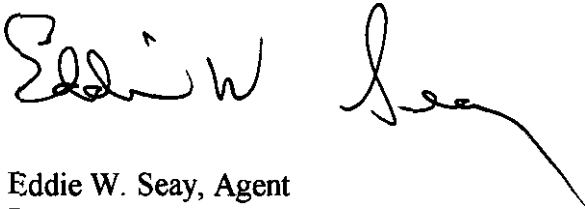
RE: Packer 18 State #1 (API 30-025-35108)
Unit A, Sect. 18, T. 21 S., R. 35 E.

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, appearing to read "Eddie W. Seay", with a long, sweeping horizontal line extending to the right.

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

LANDOWNERS AND OFFSET NOTICES

State of New Mexico, Landowner and Mineral Owner
New Mexico State Land Office
310 Old Santa Fe Trail
Box 1148
Santa Fe, NM 87504

Chevron USA
1500 Louisiana St.
Box 4791
Houston, TX 77210

Nearburg Production Co.
Box 823085
Dallas, TX 75382

Mewbourne Oil Co.
Box 5270
Hobbs, NM 88241

Three Rivers Operating Co.
1122 S. Capital of Texas Hwy. Ste. 325
Austin, TX 78746

1569 5TE2 2315 0000 064E 4T02

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Seay
 Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage	\$ 1.64
Certified Fee	3.45
Return Receipt Fee (Endorsement Required)	2.80
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.89

Postmark: NOV 17 2015 HOBBES, NM 88240

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

PS Form 3800, July 2014 See Reverse for Instructions

1569 5TE2 2315 0000 064E 4T02

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Seay
 Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Postage	\$ 1.64
Certified Fee	3.45
Return Receipt Fee (Endorsement Required)	2.80
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.89

Postmark: NOV 17 2015 HOBBES, NM 88240

Sent To: Nearburg Production Co.
 Street & Apt. No., or PO Box No.
 Box 823085
 City, State, ZIP+4
 Dallas, TX 75382

PS Form 3800, July 2014 See Reverse for Instructions

4469 5TE2 2315 0000 064E 4T02

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Total Postage & Fees	\$ 7.89

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 Houston, TX 77210

PS Form 3800, July 2014 See Reverse for Instructions

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Total Postage & Fees	\$ 7.89

Postmark: NOV 17 2015 HOBBES, NM 88240

Sent To: Three Rivers Operating Co.
 Street & Apt. No., or PO Box No.
 122 S. Capital of Texas Hwy, Ste. 325
 City, State, ZIP+4
 Austin, TX 78746

PS Form 3800, July 2014 See Reverse for Instructions

0269 5TE2 2315 0000 064E 4T02

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CERTIFIED MAIL® RECEIPT
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Return Receipt Fee (Endorsement Required)	2.80
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.89

Postmark: NOV 17 2015 HOBBES, NM 88240

Sent To: Mewbourne Oil Co.
 Street & Apt. No., or PO Box No.
 Box 5270
 City, State, ZIP+4
 Hobbs, NM 88241

PS Form 3800, July 2014 See Reverse for Instructions

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Grama Ridge Disposal, LLC, 120 North Canyon, Carlsbad, NM 88220, is filing a C-108 to convert a plugged well to a Salt Water Disposal. The well being applied for is the Packer 18 State #1, located in Unit A, 660/N 660/E Section 18, Township 21 South, Range 35 East, Lea Co., NM. The injection formation is the Delaware Sand from 5630' to 6290' below surface. Expected maximum injection rate is 10,000 bpd., and the expected maximum injection pressure is 1100 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)

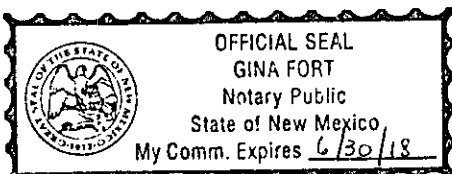
Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Manager of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county 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 November 17 , 2015 and ending with the issue of November 17 , 2015.

And that the cost of publishing said notice is the sum of \$ 27.03 which sum has been (Paid) as Court Costs.

Joyce Clemens
Joyce Clemens, Advertising Manager
Subscribed and sworn to before me this 17th
day of November , 2015.

Gina Fort
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, 120 North Canyon, Carlsbad, NM 88220, is filing a C-108 to convert a plugged well to a Salt Water Disposal. The well being applied for is the Packer 18 State #1, located in Unit A, 660/N.660/E Section 18, Township 21 South, Range 35 East, Lea Co., NM. The injection formation is the Delaware Sand from 5630' to 6290' below surface. Expected maximum injection rate is 10,000 bpd, and the expected maximum injection pressure is 1100 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
November 17, 2015.

LAW OFFICES

HEIDEL, SAMBERSON, COX & McMAHON

C. GENE SAMBERSON
LEWIS C. COX, III
PATRICK B. McMAHON

311 NORTH FIRST STREET
POST OFFICE DRAWER 1599
LOVINGTON, NM 88260
TELEPHONE (575) 396-5303
FAX (575) 396-5305

F.L. HEIDEL
(1913-1985)

July 21, 2016

Phillip R. Goetze, PG
Engineering and Geological Service Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resource Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RECEIVED OGD
2016 JUL 25 P 2:03

Re: C-108 Application/Packer 18 State No. 1

Dear Mr. Goetze:

I am in receipt of your May 5, 2016 email to Mr. Will Jones regarding the above referenced matter. A copy of your email is attached hereto for your convenience.

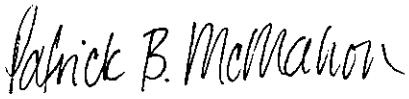
Also attached hereto is Mr. Eddie Seay's response, on behalf of Grama Ridge Disposal, LLC, to the five (5) items that you indicated needed to be addressed. Of note, Mr. Seay wanted me to indicate to you that there is no Bone Spring production in the AOR, only one deep Morrow gas well. Additionally, would you please reflect the correct mailing address for Grama Ridge Disposal, LLC as being P.O. Box 1105, Eunice, New Mexico 88231.

Lastly, please find attached Mr. Will Jones' email of May 5, 2016 regarding the above referenced matter. Mr. Jones states that "There has been waste and correlative rights issues with large Commercial Disposal wells in the Delaware Mountain Group such as this is proposed."

Through this letter I am requesting that you provide Mr. Seay and Grama Ridge Disposal, LLC with articulable facts that supports Mr. Jones' position that the swd application for the Packer 18 State No. 1 will not be handled administratively and will require this matter be set for hearing.

I look forward to your response.

HEIDEL, SAMBERSON, COX & MCMAHON

By: 

Patrick B. McMahon

PBM:st

Enclosures

cc: Grama Ridge Disposal, LLC
Eddie Seay
Keith Herrmann
Will Jones

June 2016

NMOCD Engineering
ATTN: Phillip Goetze
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Grama Ridge Disposal, LLC
Packer 18 State (API 30-025-35108)
C-108 Application
Response to OCD Review

Mr. Goetze:

I appreciate your response and review of the above listed application. Listed is response to your review. Find attached to this report is revised schematic showing correct setting of pipe, the originals submitted were wrong.

In my application, we stated we would selectively perforate the Delaware from within the confines of the Delaware Group, which is from 5630' to 6290' and we never intended to perforate both strings of casing, only the 7 in.

Reduced per NMSLO request

Within the Delaware Group is the Cherry Canyon, Bell Canyon and Brushy Canyon formations. In this area, the Brushy Canyon is the zone which most likely would show hydrocarbon production, the top of the Brushy Canyon, according to logs, would occur at approximately 6500'. Our proposed injection interval would encompass portions of the Cherry Canyon and Bell Canyon. We plan to put a cement plug from 6500' to 6300' to isolate the Brushy Canyon.

When well is approved and after perforating, a swab test will be run on the injection interval to determine any production potential. The results of the swab test will be given to OCD District in Hobbs to review prior to commencing injection.

*} Addresses
HC potential*

Also, within two years of commencing injection or when well is pulled, we will run an injection survey consisting of a temperature log or the equivalent over the entire injection area using representative disposal rate. The results of survey will be provided to OCD District and Santa Fe OCD Engineering.

✓

The Capital Reef top and bottom was taken from logs and the ~~Bureau of Mines~~ information. We will have both 9.5 in casing and 7 in. casing as protection, along with the above listed test. Also, the OCD may wish to set a lesser rate and pressure.

} NMBGMR

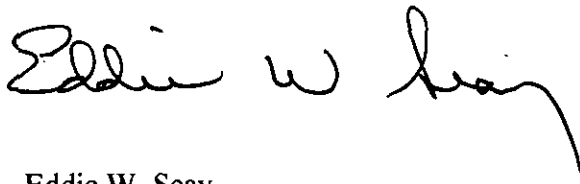
In response to water well formation, attached are records taken from State Engineer files for every section within a mile of the proposed SWD. Each and every section shows "No Record Found". I further researched the two POD's in your letter and found CP-755 in section 17 is plugged. Well CP-939 was not plugged but not in operation, no sample could be obtained.

→ showed 165' DTW (1939) in 400' TD well

Once you have time to further review and have additional comments or questions, please let me know.

Thanks for your help and consideration.

Sincerely,



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

cc: Patrick McMahon - Attorney for Grama Ridge

Search of
Wells
Supplemented
as Requested

IS P&A'd

but showed

DTW either
Shallow (24' to 83'
Sand - no show)
or greater than
200' BGS (111' of
clay).

Rena Seay

From: "Patrick" <hsncpbm@leaco.net>
To: "Rena Seay" <seay04@leaco.net>
Sent: Thursday, May 05, 2016 3:54 PM
Attach: Packer 18 State Com 1 well const.pdf; C-108 well diagram.pdf
Subject: FW: C-108 Application: Packer 18 State No. 1

From: Jones, William V, EMNRD [mailto:WilliamV.Jones@state.nm.us]
Sent: Thursday, May 5, 2016 1:32 PM
To: hsnkst@leaco.net; hsncpbm@leaco.net
Cc: Brooks, David K, EMNRD <DavidK.Brooks@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: FW: C-108 Application: Packer 18 State No. 1

From: Goetze, Phillip, EMNRD
Sent: Thursday, May 05, 2016 1:10 PM
To: Jones, William V, EMNRD
Cc: McMillan, Michael, EMNRD; Lowe, Leonard, EMNRD; Holm, Anchor E.
Subject: C-108 Application: Packer 18 State No. 1

RE: Packer 18 State No. 1 (API 30-025-35108; Application no. pMAM15336337710)

Will:

At your request, I revisited the referenced application. Currently, the items in the application that need to be addressed, based on a cursory review, are the following:

1. Submitted C-108 application identifies (in text and diagram; see attachment) that the intermediate casing string is 8 ¾-inch set at 4522 feet. The C-105 provided by Nearburg (original operator) reports 9 5/8-inch casing set at 5621 feet. This is a significant inaccuracy.
2. Applicant has applied for a disposal interval from 5630 ft to 6290 ft, yet the perforations in the proposed well diagram are shown as 5730 ft to 6290 ft. With consideration of the information in item 1., does the applicant plan to perf both intermediate and production casing?
3. Both the NMSLO and NMOCD has concerns regarding the selection of the base of the Capitan Reef aquifer (a protectable water source not identified in the application) relative to the upper limit of the proposed injection interval. The proximity of the upper limit may provide communication to the aquifer considering the proposed disposal rate of 10,000 BWPD and an interval of approximately 500 feet, especially with recent observations provided in hearing that shallow Delaware Mountain group (DMG; Bell Canyon and Cherry Canyon formations) are demonstrating formation parting pressures below the administratively approved gradient of 0.20 psi/ft.
4. The hydrocarbon potential of the proposed injection interval is not supported. The application describes the interval as "Lower Delaware". Assessments by the NMBGMR show this area as having a low potential for hydrocarbon development. This potential would typically occur in the Brushy Canyon formation of the DMG (i.e. the "Lower Delaware"). The application makes no mention as to the lower confining layer – i.e. contact of the Bell Canyon fm with the Cherry Canyon fm – that prevents vertical migration.
5. OSE records show two PODs (CP-755 and CP-939) within one-mile of the proposed SWD. Of these two,

5/5/2016

CP-939 is reported to be 400 feet deep with a water level at 165 ft. The application makes no mention of this shallow water well.

I don't see any additional issues, but I shall be looking at available logs and Hiss to assess the lower extent of the aquifer. Sometime, as priorities allow. Please comment on the status of this application when you have time.
PRG

Phillip R. Goetze, PG
Engineering and Geological Services Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Direct: 505.476.3466
e-mail: phillip.goetze@state.nm.us



5/5/2016

AFTER WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		APINUM: 30-025-35108				
FORM	DEPTH	OPERATOR: GRAMA RIDGE DISPOSAL LLC				
<div> <div>13 3/8"</div> <div>@ 1342'</div> <div>TOC @ 0'</div> </div> <div> <div>Rustler</div> <div>T. Salt</div> <div>1765</div> <div>2295</div> </div> <div> <div>B. Salt</div> <div>Yates</div> <div>3430</div> <div>3695</div> </div> <div> <div>Capitan R</div> <div>4146</div> </div> <div> <div>B. Capitan R</div> <div>5480</div> <div>9 5/8</div> <div>5621</div> <div>TOC @ 0'</div> </div> <div> <div>Delaware</div> <div>5630</div> </div> <div> <div>Bone Spring</div> <div>7658</div> </div> <div> <div>Wolfcamp</div> <div>10710</div> </div> <div> <div>Strawn</div> <div>11100</div> <div>7</div> <div>@ 11120</div> <div>TOC @ 7150'</div> </div> <div> <div>Morrow</div> <div>11480</div> </div> <div> <div>4 1/2</div> <div>@ 12650</div> <div>TOC @ 10898</div> </div>	<div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> <div>660 FNL</div> </div> <div> <div>MD 12650</div> <div>PBTD</div> <div>KB 3691</div> <div>GL 3672</div> <div>DF 3690</div> </div> <div> <div>POOL</div> <div>OSUDO;MORROW (GAS)</div> <div>POOL</div> <div>WILSON;WOLFCAMP, NORTH (DRY)</div> <div>POOL</div> <div>WILSON;BONE SPRING, NORTH (DRY)</div> <div>POOL</div> </div> <div> <div>PERFS 12124-12166</div> <div>PERFS 10819-11066</div> <div>PERFS 7990-8046</div> <div>PERFS</div> </div>	<div> <div>WELL NO. 1</div> <div>RNG: 35E</div> <div>TWN: 21S</div> <div>RNG: 35E</div> <div>TWN: 21S</div> <div>RNG: 35E</div> <div>TWN: 21S</div> <div>RNG: 35E</div> </div>				
	CASING RECORD					
	SURF.	13.375	1342	1042 sxs	17.5	0' Circ
	INTM1	9.625	5621	1400 sxs	12.25	0' Circ
	LINER1	7	11120	650 sxs	8.75	7150 CBL
	PROD	4.5	10898-12650	200 sxs	na	10898 TS
	<div> <div>SPUD: 08/13/2000</div> <div>COMP: 12/01/2000</div> <div>P&A: 11/25/2008</div> <div>Reent: tbd</div> </div>					
	<div> <div>4 1/2 pct w/ pkr set within 100' uppermost perms</div> <div>PERF 5730-6290</div> <div>Tie 7 @ 6300</div> <div>TOC @ 7150</div> <div>Plug 30 SXS 7747-7890</div> <div>CIBP @ 7890 cap w/30 sxs cmnt</div> <div>PERF 7999-8046 Dry</div> <div>CIBP @ 10800 cap cmnt</div> <div>PERF 10819-11066 Dry</div> <div>Liner Top @ 10898</div> </div>					
	<div> <div>CIBP @ 12075 cap w/ cmnt</div> <div>PERF 12124-12166</div> <div>PE PBTD 12336</div> <div>TD 12350</div> </div>					
	<div> <div>PREPARED BY: Eddie Seay</div> <div>UPDATED 05/20/16</div> </div>					

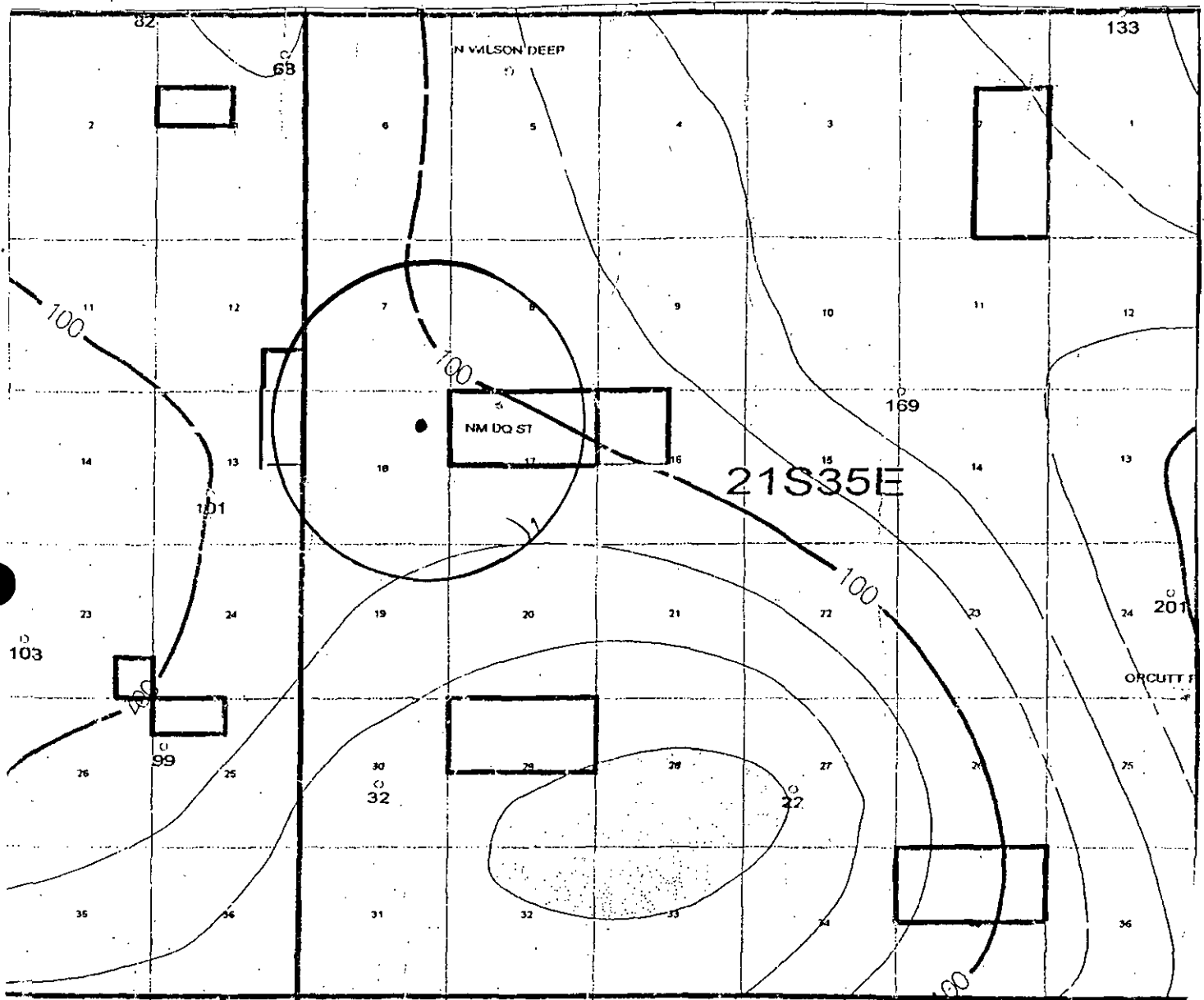
BEFORE WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		APINUM: 30-025-35108																													
FORM	DEPTH	OPERATOR: NEARBURG PRODUCING CO																													
		LEASENAME: PACKER 18 STATE WELL NO. 1																													
		SURF LOC: UL: A SEC: 18 TWN: 21S RNG: 35E																													
		660 FNL 660 FEL																													
		BH LOC: UL: A SEC: 18 TWN: 21S RNG: 35E																													
		660 FNL 660 FEL																													
		MD 12650 KB 3691 DF 3690																													
		PBD GL 3672																													
		POOL OSUDO;MORROW (GAS) PERFS 12124-12166																													
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POOL PERFS																															
Casing Record Table																															
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Delaware	5630																														
Bone Spring	7658																														
Wolfcamp	10710																														
Strawn	11100 7																														
Morrow	11480																														

PREPARED BY: Eddie Seay

UPDATED

05/20/16



Groundwater Map (Source ?)



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 7

Township: 21S

Range: 35E

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

5/17/16 10:32 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 17

Township: 21S

Range: 35E

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Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 18

Township: 21S

Range: 35E

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 13

Township: 21S

Range: 34E

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5/17/16 10:30 AM

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 24

Township: 21S

Range: 34E

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5/17/16 10:31 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 12

Township: 21S

Range: 34E

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5/17/16 10:32 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 8

Township: 21S

Range: 35E

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5/17/16 10:33 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 17

Township: 21S

Range: 35E

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5/17/16 10:33 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 19

Township: 21S

Range: 35E

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5/17/16 10:48 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer **Water Column/Average Depth to Water**

No records found.

Basin/County Search:

Basin: Lea County

County: Lea

PLSS Search:

Section(s): 20

Township: 21S

Range: 35E

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5/17/16 10:48 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,

C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD														
		Sub										Depth	Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
CP 00755		LE		1	3	4	17	21S	35E	651427	3594168*		200	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Section(s): 17

Township: 21S

Range: 35E

*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.



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-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00939 POD1			LE	4	1	2	07	21S	35E	649974	3596760*	400	165	235
CP 00940 POD1			LE	4	1	2	07	21S	35E	649974	3596760*	400	165	235

Average Depth to Water: 165 feet

Minimum Depth: 165 feet

Maximum Depth: 165 feet

Record Count: 2

PLSS Search:

Section(s): 7

Township: 21S

Range: 35E

*UTM location was derived from PLSS - see Help

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



C-108 Review Checklist: Received

12/4/15 NMSLO - Comments on interval
12/2/15 Add. Request: 5/5/16 Reply Date: 7/2/16 Suspended: 5/5/16 [Ver 16]

ORDER TYPE: WFX / PMX / SWD Number: 1643

Order Date: 8/8/16

Legacy Permits/Orders: None

Well No. 1 Well Name(s): Packer 18 State

API: 30-0 25-35108 Spud Date: 08/13/2000 New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 660 FNL / 660 FEL Lot -- or Unit A Sec 18 Tsp 21S Rge 35E County Lea

General Location: ~14 mi West of Eunice, N of SA176 Pool: SWD, Delaware Pool No.: 96100 uc

BLM 100K Map: Jul Operator: Grana Ridge Disposal LLC OGRID: 370997 Contact: E. Seay, Consultant

COMPLIANCE RULE 5.9: Total Wells: 0 Inactive: 0 Fincl Assur: Blanket Bond / no single well bond Compl. Order? NO IS 5.9 OK? Yes Date: 8/8/2016

WELL FILE REVIEWED Current Status: Plugged but not released; previously tested & prod Bone Spring; TA for Delaware

WELL DIAGRAMS: NEW: Proposed 0 or RE-ENTER: Before Conv. 0 After Conv. 0 Logs in Imaging: 95/8-in. casing

Planned Rehab Work to Well: Drill out plugs to above plug at 7747'; run 7-in casing to tie with, etc / Unit to surf

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	(Sx) or Cf	Determination Method
Planned or Existing	Surface	17 1/2 / 13 3/8	0 to 1342	1042	Circ. to Surface
Planned or Existing	Intern/Prod	12 1/4 / 9 5/8	0 to 5621	1400	Circ. to Surface
Planned or Existing	Intern/Prod	8 3/4 / 7	0 to 1120	650	TOC 7160 built
Planned or Existing	Prod/Liner	6 7/8 / 4 1/2	10898 to 12650	200	TOL / calc. & CBL
Planned or Existing	Liner	7 inch in 9 5/8 inch	0 to 6300	Test. 700	[Circ or CBL / TS]
Planned or Existing	OH / PERF	Old: 11-124-1216 (New)	5750 5650 to 6290	600 540'	
Injection Lithostratigraphic Units:		Injection or Confining Units		Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.		Units		Drilled TD 12650' PBTD 12527'	
Confining Unit: Litho. Struc. Por.		Capitan Reef (NDE) 2400		NEW TD NA NEW PBTD 6300'	
Proposed Inj Interval TOP:		Del Sand / Bell 5630		NEW Open Hole 0 or NEW Perfs 0	
Proposed Inj Interval BOTTOM:		Bell Canyon -> NDE 7		Tubing Size 4 1/2 in. Inter Coated? Yes	
Confining Unit: Litho. Struc. Por.		Cherry Canyon NDE		Proposed Packer Depth within 100 ft of top perf	
Adjacent Unit: Litho. Struc. Por.		Brush Canyon 6300		Min. Packer Depth 5650 (100-ft limit)	
		Bone Spring 7958		Proposed Max. Surface Press. 1100 psi	
				Admin. Inj. Press. 1150 (0.2 psi per ft)	

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? No BLM Sec Ord NA WIPP NA Noticed? No Salt/Salado T: 22953: 3430NW: Cliff House fm NA

FRESH WATER: Aquifer [Capitan] / Santa Rosa / Alluvial Max Depth SR: <400' HYDRO AFFIRM STATEMENT By Qualified Person 0

NMOSE Basin: Capitan CAPITAN REEF: thru adj. NA No. GW Wells in 1-Mile Radius? 0 FW Analysis? 0

Disposal Fluid: Formation Source(s) Bone Spring, WC; Penn. Perm Analysis? Yes On Lease 0 Operator Only 0 or Commercial 0

Disposal Interval: Inject Rate (Avg/Max BWPD): 10,000 Protectable Waters? No Source: Historical System: Closed 0 Open 1

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other HC potential 2-Mile Radius Pool Map 0

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

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

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

NOTICE: Newspaper Date 11/17/15 Mineral Owner NMSLO Surface Owner NMSLO N. Date 11/17/15

RULE 26.7(A): Identified Tracts? Yes Affected Persons: Nearburg / Three Rivers Oper. / Chevron / Newbourne N. Date 11/17/15

Order Conditions: Issues: NMSLO-confining layers; swab test proposed by operator; injection survey

Add Order Cond: Reduced interval to 5750' per NMSLO; swab test; injection survey proposed by operator

Goetze, Phillip, EMNRD

From: Holm, Anchor <aholm@slo.state.nm.us>
Sent: Friday, December 04, 2015 11:44 AM
To: Goetze, Phillip, EMNRD
Cc: Martin, Ed; Khalsa, Niranjana K.
Subject: Grama Ridge Disposal, LLC - Packer 18 State #1 SWD Proposed ReEntry

Phil,

After review of the above SWD Application by Grama Ridge Disposal, LLC to reEnter the Packer 18 State #1 (30-025-35108), The State Land Office has concerns as to the protection of useable ground water in the Yates, Seven Rivers and Capitan Reef, with directly overlying the Delaware Sands. The deepest porosity in these zones is near a depth of 5421' on the Compensated Density/Neutron open hole log. Therefore, the State Land Office will not concur with the proposed SWD interval of 5630' to 6290'. We believe that the top of the SWD interval must be below 5721'.

Thank you for your assistance in this concern,

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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For more information please visit <http://www.symanteccloud.com>

Patrick

From: Patrick <hsncpbm@leaco.net>
Sent: Thursday, May 5, 2016 3:54 PM
To: 'Rena Seay'
Subject: FW: C-108 Application: Packer 18 State No. 1
Attachments: Packer 18 State Com 1 well const.pdf; C-108 well diagram.pdf

From: Jones, William V, EMNRD [mailto:WilliamV.Jones@state.nm.us]
Sent: Thursday, May 5, 2016 1:32 PM
To: hsncst@leaco.net; hsncpbm@leaco.net
Cc: Brooks, David K, EMNRD <DavidK.Brooks@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: FW: C-108 Application: Packer 18 State No. 1

From: Goetze, Phillip, EMNRD
Sent: Thursday, May 05, 2016 1:10 PM
To: Jones, William V, EMNRD
Cc: McMillan, Michael, EMNRD; Lowe, Leonard, EMNRD; Holm, Anchor E.
Subject: C-108 Application: Packer 18 State No. 1

RE: Packer 18 State No. 1 (API 30-025-35108; Application no. pMAM15336337710)

Will:

At your request, I revisited the referenced application. Currently, the items in the application that need to be addressed, based on a cursory review, are the following:

1. Submitted C-108 application identifies (in text and diagram; see attachment) that the intermediate casing string is 8 ¾-inch set at 4522 feet. The C-105 provided by Nearburg (original operator) reports 9 5/8-inch casing set at 5621 feet. This is a significant inaccuracy.
2. Applicant has applied for a disposal interval from 5630 ft to 6290 ft, yet the perforations in the proposed well diagram are shown as 5730 ft to 6290 ft. With consideration of the information in item 1., does the applicant plan to perf both intermediate and production casing?
3. Both the NMSLO and NMOCDC has concerns regarding the selection of the base of the Capitan Reef aquifer (a protectable water source not identified in the application) relative to the upper limit of the proposed injection interval. The proximity of the upper limit may provide communication to the aquifer considering the proposed disposal rate of 10,000 BWPD and an interval of approximately 500 feet, especially with recent observations provided in hearing that shallow Delaware Mountain group (DMG; Bell Canyon and Cherry Canyon formations) are demonstrating formation parting pressures below the administratively approved gradient of 0.20 psi/ft.
4. The hydrocarbon potential of the proposed injection interval is not supported. The application describes the interval as "Lower Delaware". Assessments by the NMBGMR show this area as having a low potential for hydrocarbon development. This potential would typically occur in the Brushy Canyon formation of the DMG (i.e. the "Lower Delaware"). The application makes no mention as to the lower confining layer – i.e. contact of the Bell Canyon fm with the Cherry Canyon fm – that prevents vertical migration.
5. OSE records show two PODs (CP-755 and CP-939) within one-mile of the proposed SWD. Of these two, CP-939 is reported to be 400 feet deep with a water level at 165 ft. The application makes no mention of this shallow water well.

I don't see any additional issues, but I shall be looking at available logs and Hiss to assess the lower extent of the aquifer. Sometime, as priorities allow. Please comment on the status of this application when you have time. PRG

Phillip R. Goetze, PG

Engineering and Geological Services Bureau

Oil Conservation Division

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Direct: 505.476.3466

e-mail: phillip.goetze@state.nm.us



Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I

1625 N. French, Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Oil, Gas, and Natural Resources

Form C-105

Revised June 10, 2003

RECEIVED

OIL CONSERVATION DIVISION

AUG - 7 2004 220 South St. Francis Dr.

Santa Fe, NM 87505

HOBBS OGD

WELL API NO.

30-025-35108

5. Indicate Type Of Lease.

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. Type of Completion:

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☒ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator

Nearburg Producing Company

3. Address of Operator

3300 N A St., Bldg 2, Suite 120, Midland, TX 79705

7. Lease Name or Unit Agreement Name

Packer 18 State ~~Gas~~

8. Well No.

1

9. Pool name or Wildcat

Undesignated, Bone Spring

4. Well Location

Unit Letter A : 660 Feet From The North Line and 660 Feet From The East Line

Section 18

Township 21S

Range 35E

NMPM

Lea

County

10. Date Spudded

8/13/00

11. Date T.D. Reached

9/30/00

12. Date Compl. (Ready to Prod.)

1/15/08

13. Elevations (DF & RKB, RT, GR, etc.)

3672' GL

14. Elev. Casinghead

15. Total Depth

12650

16. Plug Back T.D.

10800

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

7990-8046 (OA)

20. Was Directional Survey Made

No

21. Type Electric and Other Logs Run

22. Was Well Cored

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	61, 68, 72	1342	17-1/2	1042	NA
9-5/8	36, 40	5621	12-1/4	1400	NA
7	23, 26, 29	11120	8-3/4	650	NA

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4-1/2	10898	12650	200	

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8	8102	

26. Perforation record (interval, size, and number)

12124-12166 CIBP @12075

10819-11066 CIBP @ 10800

7990-8046 - 4 SPF (108 holes)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7990-8046	715 bbls Medallion 3000 fluid w/
	3 ppg Super LC 16/30 sand

28. PRODUCTION

Date First Production 01/16/08		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping				Well Status (Prod. or Shut-in) Producing	
Date of Test 1/30/08	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 9	Gas - MCF 0	Water - Bbl. 17	Gas - Oil Ratio NA
Flow Tubing Press. NA	Casing Pressure NA	Calculated 24- Hour Rate	Oil - Bbl. 9	Gas - MCF 0	Water - Bbl. 17	Oil Gravity - API -(Corr.) NA	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

NA

Test Witnessed By

R Foutch

30. List Attachments

C104

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Printed Name

Sarah Jordan

Title

Prod Analyst

Date

E-mail address

s.jordan@nearburg.com

2-11-08

CURRENT WELLBORE DIAGRAM

Page 5 of 9

LEASE: <u>Packer 18 State Com #1</u>	WELL: <u>#1</u>	FIELD: <u>Osuda</u>	API: <u>30-025-35108</u>
LOC: <u>660' FNL & 660' FEL</u>	SEC: <u>18</u>	BLK: <u></u>	Reservoir: <u>Bone Springs</u>
SVY: <u>Sec 18 T21S R35E</u>	GL: <u>3672'</u>	CTY/ST: <u>Len / NM</u>	SPUD: <u>8/13/2000</u>
CURRENT STATUS: <u>Shut-In</u>	KB: <u>3691</u>	DF: <u>3690</u>	TD DATE: <u>9/30/2000</u>
			COMP. DATE: <u>12/1/2000</u>

FRESH WATER
DEPTH:

HOLE SIZE: 17.5"
SURF CSG & SIZE: 13-3/8" 61/68/72H
SET @: 1342'
SXS CMT: 1042 sx
CIRC: 183 sx
TOC AT: Surf
TOC BY: circ

COMMENTS:

*****GEOLOGY*****

TOPS OF ALL ZONES
PRODUCTIVE OF HYDRO-
CARBONS:

HOLE SIZE: 12.25"
INT. CSG & SIZE: 9-5/8" 36/40H
SET @: 5621'
SXS CMT: 1st stg: 1000 sx, 2nd stg: 400 sx
CIRC: 94 sx
TOC AT: Surf
TOC BY: Circ.

CURRENT PERFS:

TBG: see attached tbg detail

JTS:

SN:

TAC:

ROD SIZE:

PKR:

TYPE:

HOLE SIZE: 8-3/4"
PROD. CSG & SIZE: 7" 23/26/29H
SET @: 11120'
SXS CMT: 650 sx
CIRC: 00
TOC AT: 7150'
TOC BY: CBL

SQUEEZE JOBS:

OH ID:

COTD:

PBTD: 12,527' original

TD: 12,650'

7990-92'

8002-05'

8010-24'

8038-46'

4 spf 108 holes

CIBP @ 10,800'

cap w/35' cmt

Wolfcamp perfs: 10819', 10821', 10837', 10838', 10839', 10840', 10841', 10884',
10960', 10961', 11008', 11014', 11031', 11032', 11033', 11040', 11062',
11063', 11064', 11065', 11066' 21 holes w/3-1/8" guns .34" holes

CIBP @ 12075'

cap w/35' cmt

12,124-38'

12,156-66'

5 spf

120 holes

HOLE SIZE:
LINER SIZE: 4-1/2"
Top @: 10,897'
Btm @: 12,650'
SXS CMT: 200 sx
CIRC: rvsc out 18 bbls
TOC AT:
TOC BY:

BY: TS
8/5/2008

OPEN HOLE:

AFTER WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		APINUM: 30-025-35108																													
FORM	DEPTH	OPERATOR: GRAMA RIDGE DISPOSAL LLC																													
		LEASENAME: PACKER 18 STATE WELL NO. 1																													
		SURF LOC: UL: A SEC: 18 TWN: 21S RNG: 35E 660 FNL 660 FEL																													
		BH LOC: UL: A SEC: 18 TWN: 21S RNG: 35E 660 FNL 660 FEL																													
		MD 12650 KB 3691 DF 3690																													
		PBDT GL 3672																													
		POOL OSUDO;MORROW (GAS) PERFS 12124-12166																													
		POOL WILSON;WOLFCAMP, NORTH (DRY) PERFS 10819-11066																													
		POOL WILSON;BONE SPRING, NORTH (DRY) PERFS 7990-8046																													
		POOL PERFS																													
		Casing Record Table:																													
<table border="1"> <thead> <tr> <th></th> <th>SIZE</th> <th>DEPTH</th> <th>CMT</th> <th>HOLE SIZE</th> <th>TOC</th> </tr> </thead> <tbody> <tr> <td>SURF.</td> <td>13.375</td> <td>1342</td> <td>1042 sxs</td> <td>17.5</td> <td>0' Circ</td> </tr> <tr> <td>INTM1</td> <td>8.625</td> <td>4522</td> <td>1400 sxs</td> <td>12.25</td> <td>0' Circ</td> </tr> <tr> <td>LINER1</td> <td>7</td> <td>11120</td> <td>650 sxs</td> <td>8.75</td> <td>7150 CBL</td> </tr> <tr> <td>PROD</td> <td>4.5</td> <td>10898-12650</td> <td>200 sxs</td> <td>na</td> <td>10898/TS</td> </tr> </tbody> </table>			SIZE	DEPTH	CMT	HOLE SIZE	TOC	SURF.	13.375	1342	1042 sxs	17.5	0' Circ	INTM1	8.625	4522	1400 sxs	12.25	0' Circ	LINER1	7	11120	650 sxs	8.75	7150 CBL	PROD	4.5	10898-12650	200 sxs	na	10898/TS
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PROD	4.5	10898-12650	200 sxs	na	10898/TS																										
<p>SPUD: 08/13/2000 COMP: 12/01/2000 P&A: 11/25/2008 Reent: tbd</p>																															
<p>4 1/2 pct w/ pkr set within 100' uppermost perfs</p> <p>PERF 5730-6290</p> <p>Tie 7 @ 6300</p> <p>TOC @ 7150</p> <p>Plug 30 SXS 7747-7890</p> <p>CIBP @ 7890 cap w/30 sxs cmnt</p> <p>PERF 7999-8046 Dry</p> <p>CIBP @ 10800 cap cmnt</p> <p>PERF 10819-11066 Dry</p> <p>Liner Top @ 10898</p> <p>CIBP @ 12075 cap w/ cmnt</p> <p>PERF 12124-12166</p> <p>PE PBDT 12336 TD 12350</p>																															

PREPARED BY: Eddie Seay

UPDATED

09/08/15

Patrick

From: Patrick <hsncpbm@leaco.net>
Sent: Thursday, May 5, 2016 3:56 PM
To: 'Rena Seay'
Subject: FW: Grama Ridge Disposal, LLC proposed commercial Delaware SWD: 30-025-35108

From: Jones, William V, EMNRD [mailto:WilliamV.Jones@state.nm.us]
Sent: Thursday, May 5, 2016 1:32 PM
To: hsncpbm@leaco.net; hsnkst@leaco.net
Cc: Brooks, David K, EMNRD <DavidK.Brooks@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>
Subject: Grama Ridge Disposal, LLC proposed commercial Delaware SWD: 30-025-35108

Hello Patrick,
I have talked this over with Phil.

There has been waste and correlative rights issues with large Commercial Disposal wells in the Delaware Mountain Group such as this is proposed.
We have not as yet totally ruled out approval of commercial disposals in the Delaware, but are waiting on more data and will soon (as everyone's time allows) have a study team up and running.

In particular for this application:
The short story is this one is more than we want to handle administratively.
The longer story is detailed in Phil's message that I will forward to you.

You are always welcome to enter a case for hearing so it can be considered further.
If you choose to do so, please again provide notice of the application and hearing to all affected persons including the State Land Office.

Many Regards,

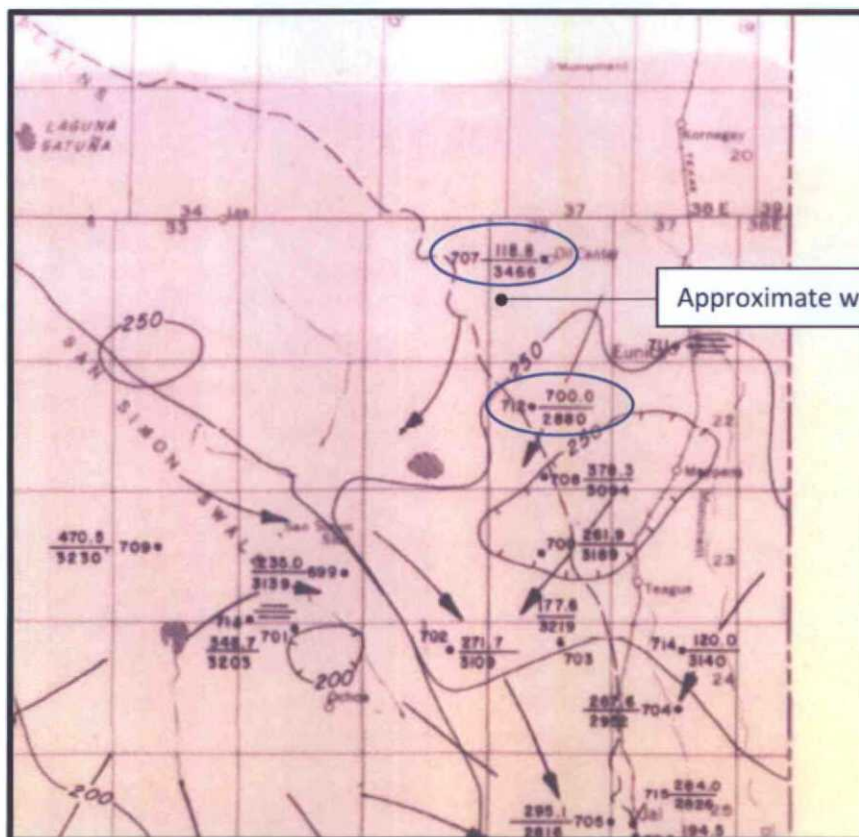
Will Jones



William V. Jones, P.E., Engineer and District IV Supervisor
Oil Conservation Division <http://www.emnrd.state.nm.us/ocd/>
1220 South St. Francis Drive, Santa Fe, NM 87505
P: 505.476.3477 C: 505.419.1995

C-108 Application for Packer 18 State No. 1: Santa Rosa Information (Not Provided)

PLATE 4
DELAWARE BASIN, TEXAS AND NEW MEXICO
WATER-RESOURCES INVESTIGATIONS REPORT 84-4077

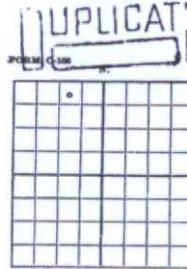


— 250 — LINE OF EQUAL THICKNESS OF SANTA ROSA SANDSTONE--
Dashed where approximately located. Interval
50 feet.

WELL 707 118.8 3466 WELL
WELL AND IDENTIFICATION NUMBER--Upper number
is water level below land surface, in feet.
Lower number is altitude of water level, in
feet. R indicates reported measurement.
Datum is sea level.

→ GENERAL DIRECTION OF GROUND-WATER FLOW IN
THE SANTA ROSA SANDSTONE--Arrows represent
regional interpretations and do not
necessarily fit individual control points.

APPROXIMATE AREA OF THE SANTA ROSA SANDSTONE.



NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or report
agent not more than twenty days after completion of well. Follow instructions
in the Rules and Regulations of the Commission. Indicate questionable data
by following it with (V). RETURN IN TRIPLICATE.

AREA 640 ACRES
LOCATE WELL CORRECTLY

John L. Boyd

Shell-State

Well No. 1 in ME NE of Sec. 18 T. 21 S.
R. 35 E. N. M. P. M. Wilson Field, Lee County.
Well is 330 feet south of the North line and 3630 feet west of the East line of Section 18
If State land the oil and gas lease is No. 13-400 Assignment No. B-1400-4
If patented land the owner is _____ Address _____
If Government land the permittee is _____ Address _____
The Lessee is John L. Boyd Address Box 241, Lockhart, Texas
Drilling commenced March 3 19 52 Drilling was completed June 2 19 52
Name of drilling contractor John L. Greer Drig. Co., Inc. Address Midland, Texas
Elevation above sea level at top of casing 3,684 feet.
The information given is to be kept confidential until no restriction 19 ____.

OIL SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

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

No. 1, from 80 to 115 feet. rose 100'
No. 2, from 315 to 380 feet. rose to top
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED TO	PURPOSE
13"	61	11		125				Surface

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. BAGS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15"	13"	125	50	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth Set _____
Adapters—Material _____ Size _____

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
4"		Dowell M-36 Nitro	500 gals.	5/17/52	3717-3800	
				5/24/52	3760-3802	3802

Results of shooting or chemical treatment None

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.
Cable tools were used from 0 feet to 3832 feet, and from _____ feet to _____ feet.

PRODUCTION

Put to producing _____ 19 ____
The production of the first 24 hours was _____ barrels of fluid of which _____ % was oil: _____ %
emulsion: _____ % water; and _____ % sediment. Gravity, Be _____
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Robert J. Lynch Driller L. A. Sample Driller
G. L. Bohannon Driller _____ Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this _____

day of _____ 19 ____

Margaret L. Hutter
Notary Public

My Commission expires 6-1-53

Lockhart, Texas, June 9, 1952

Place _____ Date _____
Name John L. Boyd
Position Owner
Representing John L. Boyd
Company or Operator.
Address Box 241, Lockhart, Texas