

15354

CASE (Number): *Application of NW Oil Services, LLC for approval of a salt water disposal well, Eddy County, New Mexico.* Applicant seeks an order approving disposal of produced water into the Cherry Canyon and Brushy Canyon formations of the Delaware Mountain group at depths of 3900 feet to 5700 feet subsurface in the **NW SWD No. 1**, located 1980 feet from the south line and 660 feet from the west line of Section 7, Township 23 South, Range 28 East, NMPM. The well is located approximately 2.5 miles northwest of Loving, New Mexico.

DATE IN 07/21/13	SUSPENSE	ENGINEER PRG	LOGGED IN RBDMS/	TYPE SWD	APP NO. <hand posted>
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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



Case 15354

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 _____

NW SWD #1
7-235-28E

RECEIVED OGD
2014 JUL 21 P 3:20

- [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] X Offset Operators, Leaseholders or Surface Owner
- [C] X 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] X For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

30-015 - Pending
Bonding Confirmed
OGRID # 290889
NW Oil Services

- [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.

Phelps White
Print or Type Name

Signature

Consultant
Title

July 15, 2014
Date

NW Oil Services, LLC - NW SWD #1

pwiv@zianet.com
e-mail Address



July 17, 2014

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

Attn: Mr. Phillip Goetz

Re: Application to inject for a proposed SWD well to be drilled by NW Oil Services, LLC. NW SWD #1 located in Section 7, T23S, R28E, Eddy County, NM.

Dear Mr. Goetz

Please find enclosed form C-108 Application for Authority to Inject and supporting documents supporting the proposed NW SWD #1 well to be drilled by NW Oil Services, LLC.

The purpose of this proposed well is to serve local operators in their water disposal needs for their production operations.

The published legal notice ran in the June 18, 2014 issue of the Carlsbad Current Argus and all other offset operators and other interested parties have been notified individually by registered mail. The legal notice affidavit is included in this application package. This application also includes wellbore schematics, area of review maps, leaseholder plats, geologic data and other required information for a complete form c-108. **The well will be drilled on private land that is owned by the operator.**

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any question please do not hesitate to call or email me. My cell phone # is 575 626 7660 and my email address is pwiv@zianet.com.

Thank You

Phelps White
Consultant to NW Oil Services

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Salt Water Disposal Pressure Maintenance XXX Disposal Storage
Application qualifies for administrative approval? XXX Yes No
- II. OPERATOR: NW Oil Services, LLC.
ADDRESS: 2393 Pecos Hwy, Carlsbad, NM, 88220
CONTACT PARTY: Phelps White, Consultant PHONE: 575 626 7660
- III. WELL DATA: All well data and applicable wellbore diagrams are attached hereto.
- IV. Is this an expansion of an existing project? Yes XXX No
If yes, give the Division order number authorizing the project:
- V. A map is attached that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. A tabulation is attached showing the Oxy USA, Inc, Brantly "A" Com #1 well showing. The Brantly "A" #1 well is the only well located in the area of review.
- VII. The following Data is included on attachemet #1 to this C-108:
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; see water analysis for the COG Road Lizard 5 Fed 1 and the BTA Cassidy well.
 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.), see water analysis for the BTA Cassidy well.
- *VIII. Appropriate geologic data on the injection zone is attached including appropriate lithological detail, geologic name, thickness, and depth. Also attached is the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. The proposed stimulation program is attached in the notes on attachement #1 to form C-108.
- *X. This well has not been drilled and therefore no data is available at this time.
- *XI. State Engineers records indicate that there are 22 fresh water wells within the area of review, tabulation is attached. Attached also is chemical analysis on 3 water wells analysed by Baker Hughes lab in Artesia, NM. These samples were collected on May July 14, 2014 around noon from POD #0069, POD #563 and POD #2847 all located within one mile of the prospsd SWD.
- XII. A geologic study was made and is attached, included are the available geologic and engineering data. I certify that there is 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: Phelps White TITLE: Consultant
SIGNATURE: [Signature] DATE: July 16, 2014
E-MAIL ADDRESS: pwiv@zianet.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

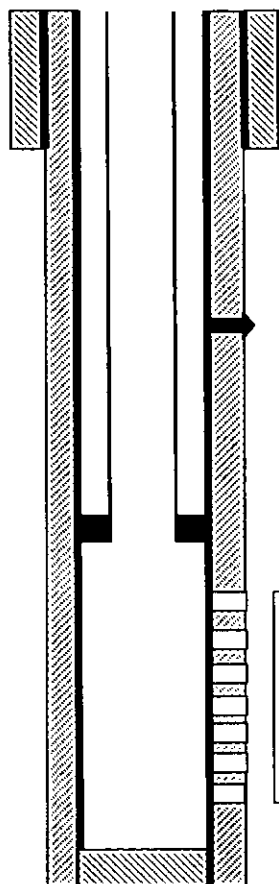
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

OPERATOR: NW Oil Services, LLCWELL NAME & NUMBER: NW SWD #1WELL LOCATION: 1980 FSL and 660 FWL, L 7 23S 28E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing9 5/8" 36# J-55 @ 1000'
Cement to SurfaceDV Tool Set @ 2500'
2nd stage cmt 280 sx
Cmt circulated to surface3850' 3.5" ICP tubing
7" Packer @ 3850'
Nickel Coated Arrowset 1XInjection Zone
Various Perforations
3900' to 5700'7" 26# @ 5900'
1st stage cmt 480 sxHole Size: 12.25 Casing Size: 9 .625Cemented with: 410 sx. or ft³Top of Cement: Surface Method Determined: SightIntermediate CasingHole Size: Casing Size: Cemented with: sx. or ft³Top of Cement: Method Determined: Production CasingHole Size: 8.75 Casing Size: 7Cemented with: 760 sx. or ft³Top of Cement: Surface Method Determined: Sight or CBLTotal Depth: 5900Injection Interval Perforations from 3900 feet to 5700

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3.5" 9.5# Lining Material: Internal Plastic Coated

Type of Packer: 7" X 3.5" Nickel Coated Arrowset 1x packer set @ 3800'

Packer Setting Depth: 3850'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? XX Yes _____ No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Delaware

3. Name of Field or Pool (if applicable): _____

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.

NOTE: This well has not been drilled yet.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Atoka and Morrow, 10,500 to 12,500, Bone Spring, 7600

Attachment #1 to Form C-108 – Application For Authorization to Inject

VII. Attached data on the proposed operation, including:

Note: This well has not been drilled yet. Information presented is based on educated guess

1. Proposed average and maximum daily rate and volume of fluids to be injected;
Average 10,000 bpd, Maximum 20,000 bpd
2. This system is closed
3. Since this well has not been drilled it is uncertain what injection pressures will be. NMOCD regulations provide for an injection pressure of .2 psi/ft.

Average: 600 psi

Maximum: $3900 \times .2 \text{ psi/ft} = 780 \text{ psi}$

After injection begins and if 780 psi is not adequate pressure, NW Oil Services may opt to conduct a step rate test which would be submitted to the NMOCD as a request to increase the injection pressure.

4. Water to be disposed will be from various producing wells in the area; See attached water analyses for COG Road Lizard 5 Fed # 1 – Bone Springs and BTA Cassidy #1 – Delaware. It is uncertain what percentages of water from each zone will be injected. It should be noted that there are at least 3 active commercial water wells in the area, one being approximately 1 mile away from the proposed SWD (see map). These wells receive water from the same zones and inject into the same Delaware interval and there is no apparent compatibility problem with comingling these waters.

5. There are no productive oil or gas wells producing from the injection zone within one mile of this well; See attached water analysis of the water produced from the BTA Oil Producers, LLC, Cassidy #1 well, UL E, Sec 29, T23S, R28E, located 3.5 miles away from the proposed injection zone.

- VIII. See attached geologic information including a cross section showing the proposed injection zone. Based on the NM Office of the State Engineer the depth of the base of potable water in the area is 220' (See Water Column/Average Depth to Water table attached).

- IX. STIMULATION: The injection zone will be perforated and then acidized with approximately 100 gallons per foot of pay 15% NEFE acid. If necessary the well will be fracked with a design typical of the Delaware formation.

- X. There is no data on this well yet because it has not been drilled. See attached cross section for log data in the area. We propose to run standard porosity and resistivity logs when we drill this well.
- XI. See attached chemical analysis from a fresh water source well within 1 mile radius of the proposed well. These water samples were caught by me from irrigation wells with the aid and guidance of the owners of the wells.
- XII. I and a geologist under my supervision have examined numerous wells in the area of this application and have found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. See attached "Proof of Notice

Attachment #2 to Form C-108 – Application For Authorization to Inject

III. Well Data

A. (note: This well has not been drilled yet. Data presented is based on application to drill)

1: Lease Name: NW SWD #1; Section 7, T23S, R28E; 1980' FSL and 660' FWL

2: Surface Casing: 1000' of 9 5/8" 36# J-55 casing set in a 12 1/4" hole

Cement: 410 sx Class C, cemented to surface

Cement top determined by sight or temperature log if no circulation. If no circulation of cement is established the annulus will be filled via 1" tubing.

Long String: 5900' of 7" 26# J-55 casing set in an 8 3/4" hole with a DV tool installed at 2500'.

Cement: First Stage 480 sx 50/50/2 C

Second Stage Lead 130 sx 65/35/6 C +3% salt

Tail 150 sx C+ 1% CaCl₂

Cement will be circulated behind the 7" casing

3: Tubing String: 3.5" 9.3# J55 tubing. Internally Plastic Coated, set @ 3850'

4: 7" X 3.5" Nickel Coated Arrowset 1X packer set @ 3850'

8.

1. Injection Formation; Delaware (See Cross Section)

2. Injection interval (Gross): 3900 to 5700'. The injection interval will be perforated

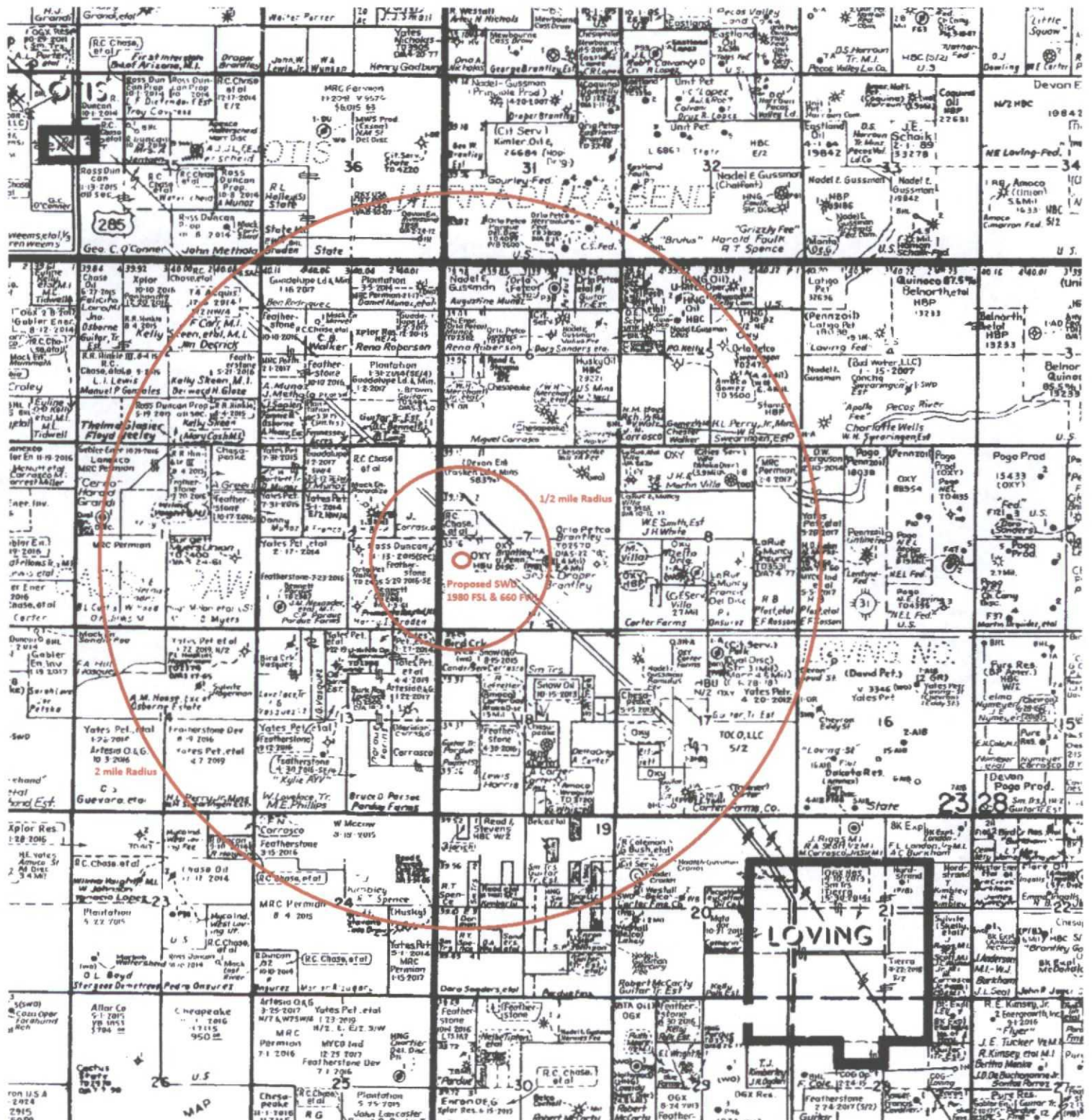
3. This well has not been drilled yet but it will be drilled for the purpose of Injection

4. No zones have been perforated

5. There are no oil and gas zones higher than the injection interval and the next zone lower would be the Bone Springs

XIV. PROOF OF NOTICE

See attached legal notice run June 18th in the Carlsbad Current Argus.



NW OIL SERVICE'S
Attachment to C-108
PLAT SHOWING WELL LOCATION
and surrounding AREA

M&W Oilfield Services
Application for SWD

ATTACHMENT FOR "APPLICATION FOR AUTHORIZATION TO INJECT"
FORM c-108

OFFSET WELL INFORMATION

Operator Oxy, USA, Inc.

Well Name	Brantly "A" Com #1
Location	Unit J, Sec7, T23S, R28E
Footage	1980' FSL, 1980 FEL
Type	Gas
Surface Casing	13 3/8" 48# @436'
Surface Cement	425 SX, Circulated to surface
Intermediate Casing	9 5/8" 36 and 40# @ 2449'
Intermediate Cement	1550 SX, Circulated to surface
Long String	7" 23 and 26# @ 10940'
Long String Cmt	1600 sx, Circulated to surface
Date Drilled	TD Feb 14, 1981
TD	12,545'
Completed	April 16, 1981' - Morrow 12,132-12,143
IP	13,338 mcf/d
Plug Back	11,897 June 2, 1988
Completed	June 2, 1988 - Atoka 11,307-11,347'
IP	18,199 mcf/d
Plug Back	11,208' August 12, 1989
Completed	Aug 12, 1989 - Atoka 11,056-11,199
IP	723 mcf/d
Plug Back	30-Nov-97
Completed	11/30/1997 - Cisco 10,506-10,531
IP	581 mcf/d, 8 bopd

Analytical Results For:

NW OIL SERVICES
2393 PECOS HWY
LOVING NM, 88256

Project: NW SWD
Project Number: NONE GIVEN
Project Manager: PHELPS WHITE
Fax To: NONE

Reported:
13-Jun-14 14:49

COG ROAD LIZARD

H401628-02 (Water)

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

Alkalinity, Bicarbonate	146		5.00	mg/L	1	4050710	AP	04-Jun-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/L	1	4050710	AP	04-Jun-14	310.1	
Chloride*	108000		4.00	mg/L	1	4052712	AP	04-Jun-14	4500-Cl-B	
Conductivity*	226000		1.00	uS/cm	1	4053014	AP	30-May-14	120.1	
pH*	5.89		0.100	pH Units	1	4053011	AP	02-Jun-14	9045	
Resistivity	0.0442			Ohms/m	1	4053014	AP	30-May-14	120.1	
Specific Gravity @ 60° F	1.108		0.000	[blank]	4	4060405	AP	04-Jun-14	SM 2710F	
Sulfate*	393		50.0	mg/L	5	4060301	AP	03-Jun-14	375.4	
TDS*	176000		5.00	mg/L	1	4052709	AP	30-May-14	160.1	
Alkalinity, Total*	120		4.00	mg/L	1	4050710	AP	04-Jun-14	310.1	

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

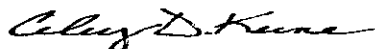
Barium*	ND		1.00	mg/L	100	B406050	JGS	06-Jun-14	EPA200.7	
Calcium*	9500		100	mg/L	100	B406050	JGS	06-Jun-14	EPA200.7	
Iron*	58.1		5.00	mg/L	100	B406050	JGS	06-Jun-14	EPA200.7	
Magnesium*	1390		100	mg/L	100	B406050	JGS	06-Jun-14	EPA200.7	
Potassium*	904		100	mg/L	100	B406050	JGS	06-Jun-14	EPA200.7	
Sodium*	53400		100	mg/L	100	B406050	JGS	06-Jun-14	EPA200.7	

WATER ANALYSIS - BONE SPRING
COG OPERATING
ROAD LIZARD 5 FED Com 2H
Sec B, T235, R29E
Example of Fluo to be injected

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Injection WATER

Analytical Results

BONE SPRING

pg 1

CARDINAL LABORATORIES SCALE INDEX WATER ANALYSIS REPORT

Company : NW OIL SERVICES
Lease Name : COG ROAD LIZARD
Well Number : NOT GIVEN
Location : 2 MI N OF LOVING

Date Sampled : 05/28/14
Company Rep. : PHELPS WHITE

ANALYSIS

1. pH	5.89	
2. Specific Gravity @ 60/60 F.	1.1080	
3. CaCO ₃ Saturation Index @ 80 F.	+1.145	'Calcium Carbonate Scale Possible'
@ 140 F.	+2.095	'Calcium Carbonate Scale Possible'

Dissolved Gasses

4. Hydrogen Sulfide	0.000	PPM
5. Carbon Dioxide	ND	PPM
6. Dissolved Oxygen	Not Determined	

Cations

	mg/L	/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	9,500.00	/	20.1	=	472.64
8. Magnesium (Mg++)	1,390.00	/	12.2	=	113.93
9. Sodium (Na+)	53,400	/	23.0	=	2,466.13
10. Barium (Ba++)	0.000	/	68.7	=	0.00

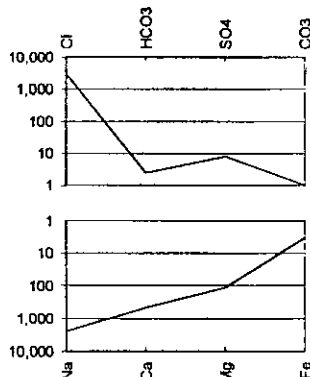
Anions

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO ₃ =)	0	/	30.0	=	0.00
13. Bicarbonate (HCO ₃ -)	146	/	61.1	=	2.39
14. Sulfate (SO ₄ =)	393	/	48.8	=	8.05
15. Chloride (Cl-)	108,000	/	35.5	=	3,042.25

Other

16. Soluble Iron (Fe)	58.100	/	18.2	=	3.19
17. Total Dissolved Solids	176,000				
18. Total Hardness As CaCO ₃	29,445.0				
19. Calcium Sulfate Solubility @ 90 F.	1,703				
20. Resistivity (Measured)	0.044	Ohm/Meters	@ 77	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO ₃) ₂	81.04	X	2.39	=	194
CaSO ₄	68.07	X	8.05	=	548
CaCl ₂	55.50	X	462.19	=	25,652
Mg(HCO ₃) ₂	73.17	X	0.00	=	0
MgSO ₄	60.19	X	0.00	=	0
MgCl ₂	47.62	X	113.93	=	5,426
NaHCO ₃	84.00	X	0.00	=	0
NaSO ₄	71.03	X	0.00	=	0
NaCl	58.46	X	2,466.13	=	144,170

Injection Water

Scale Index

Bone Spring

Analytical Results For:

NW OIL SERVICES
2393 PECOS HWY
LOVING NM, 88256

Project: NW SWD
Project Number: NONE GIVEN
Project Manager: PHELPS WHITE
Fax To: NONE

Reported:
13-Jun-14 14:49

BTA CASSIDY H401628-03 (Water)

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

Inorganic Compounds

Alkalinity, Bicarbonate	ND		5.00	mg/L	1	4050710	AP	04-Jun-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/L	1	4050710	AP	04-Jun-14	310.1	
Chloride*	212000		4.00	mg/L	1	4052712	AP	04-Jun-14	4500-Cl-B	
Conductivity*	320000		1.00	uS/cm	1	4053014	AP	30-May-14	120.1	
pH*	5.26		0.100	pH Units	1	4053011	AP	02-Jun-14	9045	
Sulfate*	198		25.0	mg/L	2.5	4060301	AP	03-Jun-14	375.4	
TDS*	294000		5.00	mg/L	1	4052709	AP	30-May-14	160.1	
Alkalinity, Total*	4.00		4.00	mg/L	1	4050710	AP	04-Jun-14	310.1	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Calcium*	30400		200	mg/L	200	B406050	JGS	06-Jun-14	EPA200.7	
Magnesium*	4580		200	mg/L	200	B406050	JGS	06-Jun-14	EPA200.7	
Potassium*	965		200	mg/L	200	B406050	JGS	06-Jun-14	EPA200.7	
Sodium*	72400		200	mg/L	200	B406050	JGS	06-Jun-14	EPA200.7	

WATER ANALYSIS - DELAWARE
BTA OIL PRODUCERS - CASSIDY #1
SEC 29, T23S, R28E
Example of Fluid to be injected
AND Fluid in the Injection zone

Cardinal Laboratories

*=Accredited Analyte

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager

Injection water
AND
water in injection zone

NW Oil Services, LLC
Salt Water Disposal Well
Sec. 7, T 23 S, R 28 E
1980 ft. FSL and 660 ft. FWL
Eddy County, New Mexico

(Refer to Highlighted Text)

VIII.

A. Geologic Data on Injection Zone

1. Lithologic Detail: Porous and permeable well developed sandstones.
2. Geologic Name: Delaware Mountain Group
3. Thickness and depth: Porous and permeable injection zones from the overall interval from 2500 to 5900 ft. from surface.

B. Bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less). Name of local aquifers; (Santa Rosa)

1. Bottom of likely fresh water (less than 10,000 mg/l): 450 feet from the surface.
2. Bottom of possible fresh water (less than 10,000 mg/l): 820 feet from surface.
3. No known fresh water zones (less than 10,000 mg/l) exist below 820 feet.
4. No known fresh water zones (less than 10,000 mg/l) exist below the Injection zones.

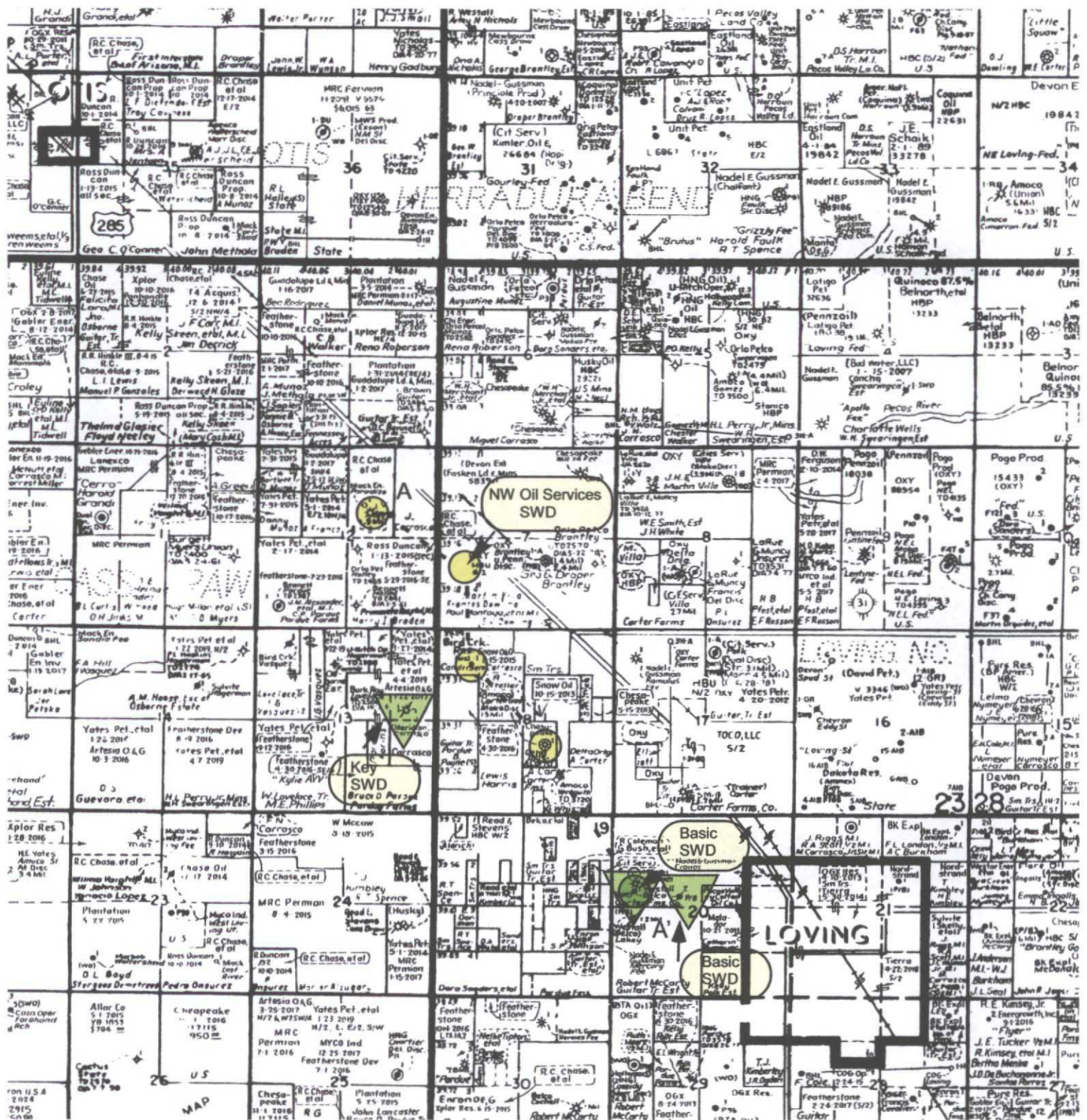
WELL DATA

B.

(1) Injection Zones; Sandstones of the Delaware Mountain Group. Nearby Fields; Cass Draw Field, Loving North Field.

Stratigraphic Summary

1. Quaternary/Holocene Alluvium;
Surface to 50 feet. Fluvial sand and silt.
2. Quaternary and Pleistocene Alluvium and eolian deposits;
50 to 100 feet. Silty clay, silty sand, possible gypsum sands. Possible caliche (Mescalero caliche).
3. Pleistocene Alluvial Sand and Gravel;
100 feet to 450 feet. Upper well sorted medium to large grained sandstones, with interbedded siltones and shales. Grades downward to coarse poorly sorted sandstones, gravels and conglomerates.
4. Permian/Ochoan (Rustler/Salado/Castile);
450 feet to 2500 feet; Massive, impermeable, dense section of tightly layered gypsum and salt zones.
5. Permian/Guadalupean/Delaware Mountain Group; (Overall Injection Zone)
2500 feet to 5900 feet; Highly porous and permeable, interbedded, well developed sandstones, with minor subordinate limestones.
6. Permian/Bone Springs Limestone;
5900 feet to TD. Dense hard impermeable limestone.



NW Oil Services, LLC SWD Project Eddy County, NM Cross-Section Traverse

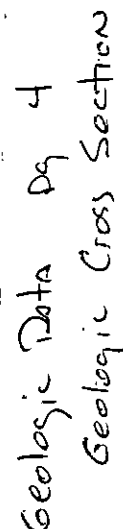


Nearby
SWD
Locations

Geologic Data pg 3

key to cross section
location of nearby SWDs

A



↳ TOP
DELAWARE
Limestone

← SEA LEVEL DATUM

DELAWARE
MOUNTAIN
GROUP
POROUS
SANDSTONES

PROVEN DISPOSAL ZONES

PROVEN
DISPOSAL
METHOD

PROVEN
DISPOS

← TOP
BONE SPRINGS
LIMESTONE

SEE LARGER
SCALE X-SECTION
ATTACHED

NOTE: A LARGER CROSS SECTION IS AVAILABLE BY REQUEST
CALL Phelps White at 575-626-7660

U. V. Jones III
Petroleum Geologist
P. O. Drawer 7107
Midland, Texas 79708
(432) 553-6634

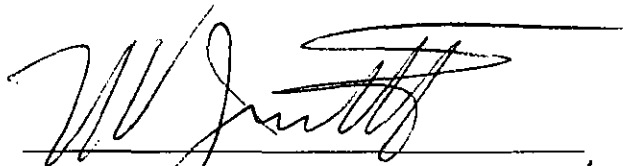
July 16, 2014

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Re; NW Oil Services, LLC
Salt Water Disposal Well
Sec. 7 T 23 S, R 28 E
Eddy County, New Mexico

Dear Sirs;

I have examined geologic and engineering data in the area and find no evidence of open faults or any other known hydrologic connection between the disposal zones and any underground source of drinking water.



U. V. Jones III _____ date 7-16-14



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-Code	basin	County	Q Q Q				Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
POD Number					64	16	4	Sec							
C 02845		ED	3	4	1	07	23S	28E	581920	3576327*		321	220		
C 00063		ED	1	3	1	07	23S	28E	581526	3576521*		702	130		
C 02846		ED	4	1	1	07	23S	28E	581726	3576726*		763	150	50	100
C 00333		ED	3	1	2	18	23S	28E	582325	3575118*		953	147		
C 03472 POD1	C	ED	4	4	4	07	23S	28E	582894	3575479		1027	140	40	100
C 02846 S		ED	4	4	4	07	23S	28E	582926	3575527*		1031	150	40	110
C 03053	C	ED	3	4	4	12	23S	27E	581122	3575505*		1037	94	14	80
C 03457	C	ED	3	4	4	12	23S	27E	581081	3575530		1060	200		
C 00058		ED	3	4	3	06	23S	28E	581920	3577137*		1119	185	20	165
C 00058 S		ED	3	3	3	06	23S	28E	581526	3577131*		1214	202		
C 02064	C	ED		4	3	06	23S	28E	582021	3577238*		1216	90	50	40
C 00309	C	ED	1	3	1	08	23S	28E	583129	3576544*		1224	165	16	149
C 01779	C	ED	3	1	1	08	23S	28E	583128	3576749*		1324	178	50	128
C 00241		ED	3	3	2	12	23S	27E	580715	3576307*		1336	160		
C 02883		ED	1	3	3	06	23S	28E	581526	3577331*		1399	202		
C 02243	C	ED	4	4	4	06	23S	28E	582925	3577148*		1443	60	40	20
C 02141	C	ED		4	4	06	23S	28E	582826	3577249*		1467	65	36	29
C 02243 CLW469222	O	ED		4	4	06	23S	28E	582826	3577249*		1467	60	40	20
C 02141 CLW468812	O	ED	2	4	4	06	23S	28E	582925	3577348*		1604	65	36	29

Average Depth to Water: **36 feet**

Minimum Depth: **14 feet**

Maximum Depth: **50 feet**

Record Count: 19

UTMNAD83 Radius Search (in meters):

Easting (X): 582021

Northing (Y): 3576022

Radius: 1609

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and expressed or implied, concerning the accuracy

6/3/14 10:32 AM

OSE
List of Fresh water wells

ing that the OSE/ISC make no warranties, rticular purpose of the data.

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer Wells Without Well Log Information

(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)

POD Number	POD		County	Source	q q q			Sec	Tws	Rng	X	Y	Distance
	Code	Subbasin			64	16	4						
C 03457		C	ED		3	4	4	12	23S	27E	581081	3575530	206
C 00069			ED	Shallow	3	3	3	07	23S	28E	581526	3575510*	239
C 00461			ED	Shallow	1	1	1	18	23S	28E	581526	3575307*	313

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 581286.13

Northing (Y): 3575508.46

Radius: 450

*UTM location was derived from PLSS - see

The data is furnished by the NMOSE/ISC a
expressed or implied, concerning the accur

8/21/13 7:27 AM

OSE
List of Fresh water wells

anding that the OSE/ISC make no warranties,
particular purpose of the data.

LS WITHOUT WELL LOG INFORMATION



WATER ANALYSIS

Atesia District Laboratory
(505) 746-3140

Operator:	Primero Operating Inc	Date:	7/15/2014
Well:	NA	District:	Artesia NM
Formation:	Aquifer	Requested:	NA
Field:	NA	Technician:	R. Escandon
County:		Source:	Water Source No 1
Depth:	NA	PFS Test #:	
		M:Water Analysis	Customer:

PH	6.64	Temp (F):	75
Specific Gravity:	1.015	H2S:	0

CATIONS

	mg/l	me/l	ppm
Sodium (calc.)	664	28.9	654
Calcium	810	40.4	798
Magnesium	194	24.0	287
Barium	< 25	----	----
Potassium	< 10	----	----
Iron	0	0.0	0

ANIONS

Chloride	1680	47.4	1655
Sulfate	1600	33.3	1576
Carbonate	0	0.0	0
Bicarbonate	281	4.6	276

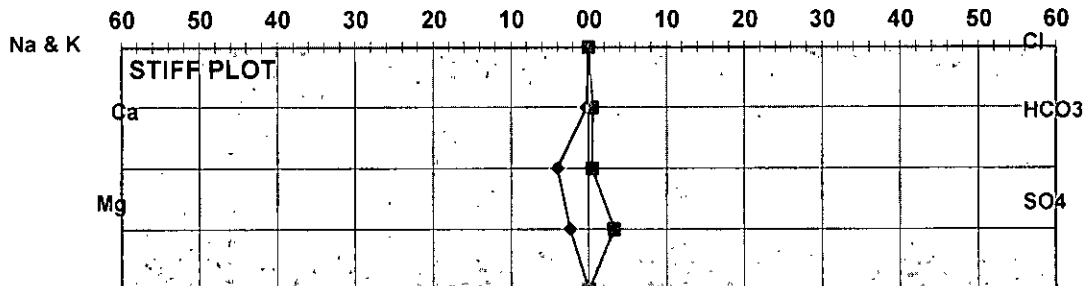
Total Dissolved Solids(calc.)	5229		5152
-------------------------------	------	--	------

Total Hardness as CaCO3	2823	56.4	2781
-------------------------	------	------	------

COMMENTS:

SCALE ANALYSIS:

CaCO3 Factor	227291.612	Calcium Carbonate Scale Probability:	Remote
CaSO4 Factor	1296032	Calcium Sulfate Scale Probability:	Possible



FRESH WATER Sample 1
OSE POD # C-0069
SWSW Sec 7 T23S R28E
1900' From project
Caught 12:30 pm 7-14-14



WATER ANALYSIS

Atesia District Laboratory
(505) 746-3140

Operator:	Primero Operating Inc	Date:	7/15/2014
Well:	NA	District:	Artesia NM
Formation:	Aquifer	Requested:	NA
Field:	NA	Technician:	R. Escandon
County:		Source:	Water Source No 2
Depth:	NA	PFS Test #:	

M:Water Analysis\ Customer:

PH	6.68	Temp (F):	75
Specific Gravity:	1.015	H2S:	0

CATIONS

	mg/l	me/l	ppm
Sodium (calc.)	531	23.1	523
Calcium	978	48.8	964
Magnesium	175	24.0	287
Barium	< 25	---	---
Potassium	< 10	---	---
Iron	0	0.0	0

ANIONS

Chloride	1680	47.4	1655
Sulfate	1600	33.3	1576
Carbonate	0	0.0	0
Bicarbonate	342	5.6	337

Total Dissolved Solids(calc.)	5306		5227
-------------------------------	------	--	------

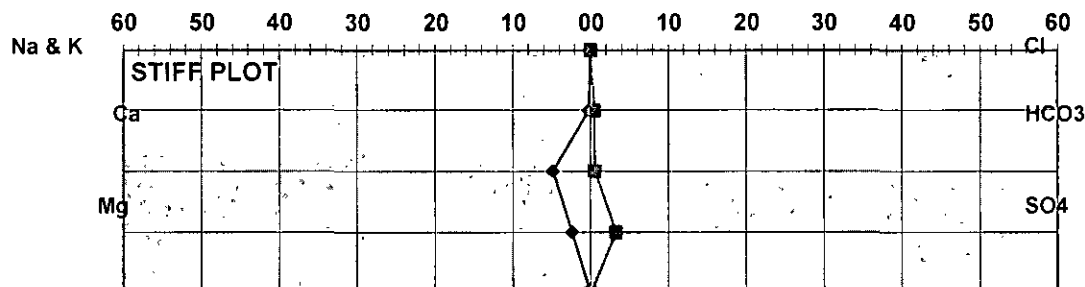
Total Hardness as CaCO3	3164	63.2	3117
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COMMENTS:

SCALE ANALYSIS:

CaCO3 Factor 334235.104
CaSO4 Factor 1565504

Calcium Carbonate Scale Probability: Remote
Calcium Sulfate Scale Probability: Possible



FRESH WATER sample 2
OSE POD # 563
SW SW NW SEC 7 T23S R28E
2506' from project
caught 12:45 7-14-14



WATER ANALYSIS

Atesia District Laboratory
(505) 746-3140

Operator:	Primero Operating Inc	Date:	7/15/2014
Well:	NA	District:	Artesia NM
Formation:	Aquifer	Requested:	NA
Field:	NA	Technician:	R. Escandon
County:		Source:	Water Source No 3
Depth:	NA	PFS Test #:	
		M:Water Analysis\	Customer:

PH	6.71	Temp (F):	75
Specific Gravity:	1.015	H2S:	0

CATIONS

	mg/l	me/l	ppm
Sodium (calc.)	520	22.6	512
Calcium	930	46.4	917
Magnesium	262	24.0	287
Barium	< 25	---	---
Potassium	< 10	---	---
Iron	0	0.0	0

ANIONS

Chloride	1840	51.9	1813
Sulfate	1600	33.3	1576
Carbonate	0	0.0	0
Bicarbonate	329	5.4	325

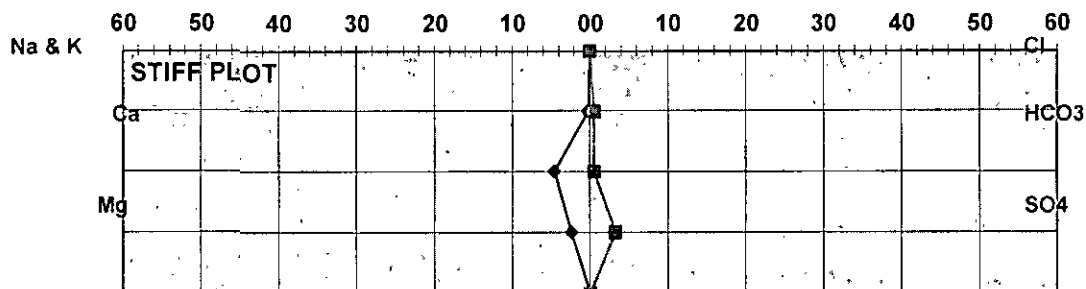
Total Dissolved Solids(calc.)	5482		5401
-------------------------------	------	--	------

Total Hardness as CaCO3	3404	68.0	3353
-------------------------	------	------	------

COMMENTS:

SCALE ANALYSIS:

CaCO3 Factor	306447.408	Calcium Carbonate Scale Probability:	Remote
CaSO4 Factor	1488512	Calcium Sulfate Scale Probability:	Possible



FRESH WATER SAMPLE 3
OSE POD # 2847
SE SE NE SEC 7 T23S R28E
5080' from project
CAUGHT 1:00 pm 7-14-14

received
6-27-14

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Kathy McCarroll, being first duly sworn,
on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

June 18 _____ 2014

That the cost of publication is **\$56.08** and that payment thereof has been made and will be assessed as court costs.

Kathy McCarroll

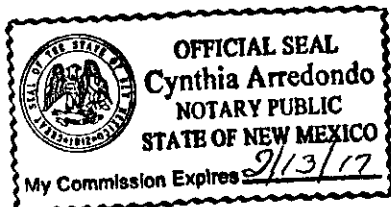
Subscribed and sworn to before me this

24 day of June, 2014

Cynthia Arredondo

My commission Expires on 2/13/17

Notary Public



June 18, 2014

Legal Notice

"Application for Authorization to Inject" NW Oil Services, LLC has applied to drill, equip and put into service a Commercial Salt Water Disposal well to be located approximately 2.5 miles NW of Loving, NM in Section 7, T23S, R28E; 1980' FSL and 660' FWL, Eddy County, NM. The proposed injection interval is in the Delaware formation from 3900 to 5700' in depth. Maximum injection rates will be 20,000 barrels per day with the maximum injection pressure of 780 psi. If you have questions about this project contact Phelps White, PO Box 1433, Roswell, NM or call 575 626 7660. Interested parties may file objection or request for hearing with the New Mexico Oil Conservation Division at 1220 South St. Francis Drive, Santa Fe, NM 87505 within 15 days of this notice.

NW OIL SERVICES, LLC
Attachment to C-108

Proof of Notice



July 16, 2014

NOTIFICATION TO INTERESTED PARTIES

Via U.S. Certified Mail

To Whom it May Concern:

NW Oil Services, LLC, Carlsbad, New Mexico has made an application to the New Mexico Oil Conservation Division to drill a Salt Water Disposal Well. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the application attached, the well will be located in Section 7, T23S, R28E in Eddy County, New Mexico.

You have been identified as a party who may be interested as an offset operator, lessee or mineral owner. Please find our Application for Authorization to Inject Form C-108. If you wish to object to the proposed application you must file with the New Mexico Oil Conservation Division, 1220 St. Francis Drive, Santa Fe, NM 87505, 505 476 3460 within 15 days of the date of this notice.

If you require additional information you may call me at 575 626 7660 or e-mail to info@primerooperating.com. Note: There is a geologic cross section in the application which is small; if you require a larger cross section it is available by request.

Best regards,

A handwritten signature in black ink, appearing to be "P. White", written over a horizontal line.

Phelps White

Consultant for NW Oil Services, LLC

Chevron USA Inc
1400 Smith Street
Houston, TX 77002

John Draper Brantley, Jr
706 W. Riverside Dr
Carlsbad, NM 88220

State Highway Commission of NM
PO Box 1149
Santa Fe, NM 87504

Oxy USA WTP Ltd Partnership
5 Greenway Plaza, Suite 110
Houston, TX 77046

Snow Oil and Gas Inc
PO Box 1277
Andrews, TX 79714

Guitar Holding Co, LP
PO Box 58
Abilene, TX 79604

Jesus N. Carrasco
47 Roberson Road
Carlsbad, NM 88220

Yates Petroleum Corporation
105 South Fourth St
Artesia, NM 88210

ABO Petroleum Corp
105 South Fourth St
Artesia, NM 88210

OXY Y-1 Company
PO Box 4296
Houston, TX 77210

Sharbro Energy LLC
423 West Main
Artesia, NM 88210

Yates Industries LLC
PO Box 1091
Artesia, NM 88210

William and Catherine Barnhill
PO Box 700968
San Antonio, TX 78270

Dixie Edwards
PO Box 2468
Roswell, NM 88202

Tierra Oil Co LLC
PO Box 700968
San Antonio, TX 78270

Mulberry Partners II LP
105 S. Fourth St
Artesia, NM 88210

Santa Legado LLP
PO Box 1020
Artesia, NM 88211

Petro Quadro LLC
428 Sandoval #200
Santa Fe, NM 87501

Clayton Barnhill
PO Box 2304
Roswell, NM 88202

Artesia Oil and Gas LLC
PO Box 1768
Artesia, NM 88211

Ross Duncan Properties LLC
PO Box 647
Artesia, NM 88211

B & G Royalties
PO Box 376
Artesia, NM 88211

Chase Oil Corporation
PO Box 1767
Artesia, NM 88211

Robert Chase
PO Box 297
Artesia, NM 88211

Ventana Minerals LLC
PO Box 359
Artesia, NM 88211

DiaKan Minerals LLC
PO Box 693
Artesia, NM 88211

Sally Guitar
10 Woodhaven Circle
Abilene, TX 79605

Melissa McGee
PO Box 334
Buffalo Gap, TX 79508

Judy Guitar Uhey
PO Box 632
Elizabethtown, KY 42702

Sharon Guitar Ellis
PO Box 105
Snoqualmie Pass, WA 98068

Lost Creek Royalties LP
400 N. Marienfield St Suite 200
Midland, TX 79701

Honey's Heritage LP
5615 Preston Fairways
Dallas, TX 75252

JPH Holding LP
4400 Arcady
Dallas, TX 75205

Polk Land & Minerals LP
1101 Butternut
Abilene, TX 79602

Paul Hofer III & John Hofer, Co-
Trustees of Laura J. Hofer Trust
11248 S. Turner Avenue
Ontario, CA 91761

Barbara Lee Backman Inc
c/o Stephen F. Backman
4407 N. Division, Suite 900
Spokane, WA 99207

Murchison-Guitar Family LP
PO Box 712
Red Bluff, CA 96080

James Minor Alexander
PO Box 58
Abilene, TX 79604

Jane Alexander Rhodes
PO Box 701
Abilene, TX 79604

Jeri Alexander Lott
5005 91st
Lubbock, TX 79424

Jack G. Woods Revocable Trust
PO Box 1159
Abilene, TX 79604

Catherine Gall Parker and Craig
Parker, Trustees
11409 Snow White Dr
Dallas, TX 75229

Caren Gall Lucas, Trustee
11409 Snow White Dr
Dallas, TX 75229

Catherine Gall Parker and Craig
Parker, Trustees
11409 Snow White Dr
Dallas, TX 75229

Kelly Woods Leach
312 Greatview Circle
Birmingham, AL 35226

Woods Dickens Ranch LP
36 Surrey Square
Abilene, TX 79606

Caren G. Lucas
2100 Stone Creek Dr
Plano, TX 75075

Catherine Gall Parker
3721 Pallos Verdas Dr
Dallas, TX 75229

Faith Oil Co
451 Pine, Suite 352
Abilene, TX 79601

John Guitar
PO Box 1628
Big Springs, TX 79721



Lesli Guitar Nichols
PO Box 327
Big Springs, TX 79721

Pressley Hudson Guitar
PO Box 20485
Dallas, TX 74220

Leslie David Guitar
PO Box U
Stafford, TX 77477

Guitar Galusha LP
1202 Sylvan Ave
Abilene, TX 79605

Gayle N. Nicolay
5528 Tahoe Lane
Fairway, KS 66205

Virginia Nevill Hoff Management
Trust
2601 Lakewood Circle
Tuscaloosa, AL 35405

Guy Pittman Witherspoon III
4704 Birchman Ave
Ft. Worth, TX 76107

Whitten Guitar Witherspoon
7524 Pear Tree Lane
Ft. Worth, TX 76133

Brett Guitar Witherspoon
PO Box 100635
Ft. Worth, TX 76185

Wende Guitar Witherspoon
Morgan
1720 Southwicke
Flower Mound, TX 75022



John Guitar Witherspoon Jr
7404 Lemonwood Lane
Ft. Worth, TX 76133

Featherstone Development Corp
PO Box 429
Roswell, NM 88202

MRC Permian Co
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

7014 0150 0001 7690 4535

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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or PO Box No.

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Sent To Snow

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or PO Box No.

City, State, ZIP+4

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OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here
 JUL 16 2014
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Sent To Yates Pet
 Street, Apt. No., or PO Box No.
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here
 JUL 16 2014
 ROSWELL, NM 88201

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

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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 ROSWELL, NM 88201

Sent To OCY Y-1
 Street, Apt. No., or PO Box No.
 City, State, ZIP+4

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here
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 ROSWELL, NM 88201

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

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OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here
 JUL 16 2014
 ROSWELL, NM 88201

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

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here
 JUL 16 2014
 ROSWELL, NM 88201

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

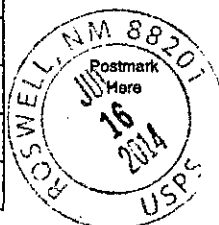
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7014 0150 0001 7690 3804

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

PS Form 3800, August 2006 See Reverse for Instructions

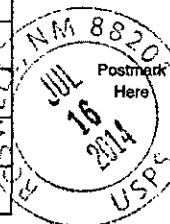


7014 0150 0001 7690 3798

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 3828

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OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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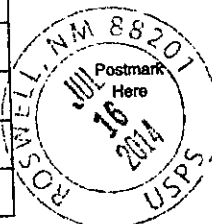


7014 0150 0001 7690 3811

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For delivery information visit our website at www.usps.com	
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

PS Form 3800, August 2006 See Reverse for Instructions

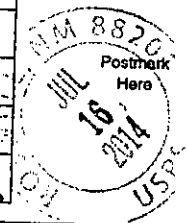


7014 0150 0001 7690 3842

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 3835

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OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

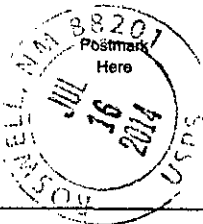
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7014 0150 0001 7690 3866

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82



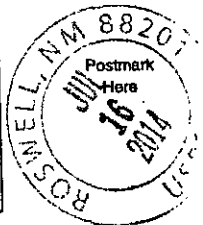
Sent To: Petro Quadro
 Street, Apt. No., or PO Box No.
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82



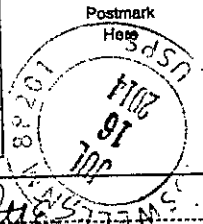
Sent To: Antexia Oil & Gas
 Street, Apt. No., or PO Box No.
 City, State, ZIP+4

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82



Sent To: B + G Royalties
 Street, Apt. No., or PO Box No.
 City, State, ZIP+4

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7014 0150 0001 7690 3859

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82



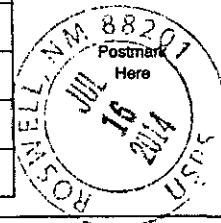
Sent To: Santa Legado
 Street, Apt. No., or PO Box No.
 City, State, ZIP+4

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82



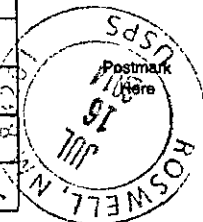
Sent To: C. Barnhill
 Street, Apt. No., or PO Box No.
 City, State, ZIP+4

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82



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

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7014 0150 0001 7690 3903

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 3989

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 4009

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OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Sent To: Honey's Heritage
 Street, Apt. No., or PO Box No.:
 City, State, ZIP+4:

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7014 0150 0001 7690 4023

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.40
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 3972

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 3996

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OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 4016

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.40
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 4047

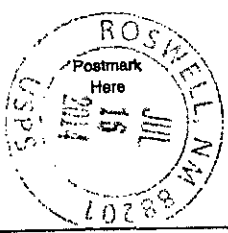
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 4030

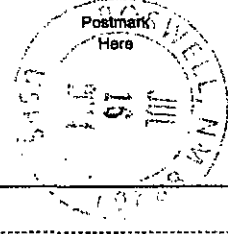
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 4061

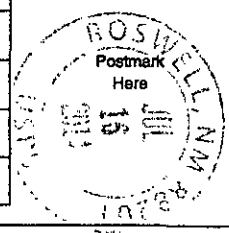
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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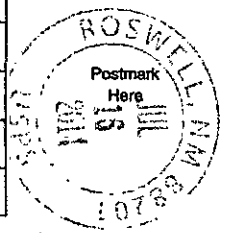
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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7014 0150 0001 7690 4085

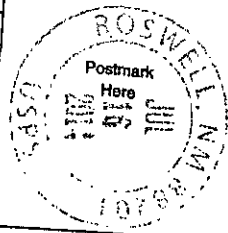
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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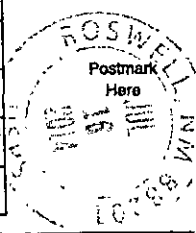
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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here

Sent To *Catherine Parker*
 Street, Apt. No.,
 or PO Box No. *Craig Parker*
 City, State, ZIP+4

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here

Sent To *C Parker + Craig Parker*
 Street, Apt. No.,
 or PO Box No.
 City, State, ZIP+4

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OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here

Sent To *Jack Woods*
 Street, Apt. No.,
 or PO Box No.
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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here

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

PS Form 3800, August 2006

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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Sent To *Wood & Dickens Ranch*
 Street, Apt. No.,
 or PO Box No.
 City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here

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

PS Form 3800, August 2006

See Reverse for Instructions

7014 0150 0001 7690 4160

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Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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Sent To Catherine Parker

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

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7690 4153

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OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here JUL 16 2014 USPS

Sent To C. Lucas

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

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7690 4164

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

OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here JUL 16 2014 USPS

Sent To John Guider

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

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7690 4177

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here JUL 16 2014 USPS

Sent To Faith Oil

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

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7690 4214

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

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

OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here JUL 16 2014 USPS

Sent To Bestie Guider

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

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7690 4191

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

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

OFFICIAL USE

Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82


Postmark Here JUL 16 2014 USPS

Sent To Bestie Nichols

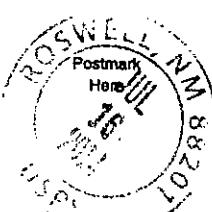
Street, Apt. No., or PO Box No. _____
 City, State, ZIP+4 _____

PS Form 3800, August 2006 See Reverse for Instructions


7014 0150 0001 7689 9459

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82
	
Sent To <u>Gayle Nicolay</u>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	

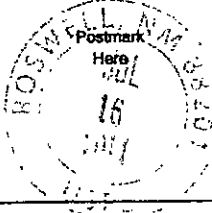
7014 0150 0001 7690 4221

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82
	
Sent To <u>Guida Galaska</u>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	

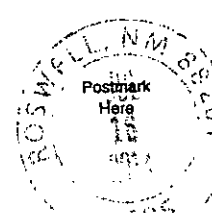
7014 0150 0001 7689 9473

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82
	
Sent To <u>G. Witherspoon</u>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	

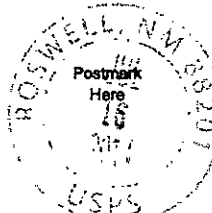
7014 0150 0001 7689 9466

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82
	
Sent To <u>Virginia Hoff</u>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	

7014 0150 0001 7689 9497

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82
	
Sent To <u>B. Witherspoon</u>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	

7014 0150 0001 7689 9480

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82
	
Sent To <u>Whitten Witherspoon</u>	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, August 2006 See Reverse for Instructions	

7014 0150 0001 7689 9510

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(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

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JUL 16 2014
ROSWELL, NM 87001

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

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7689 9503

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

Postmark Here
JUL 16 2014
ROSWELL, NM 87001

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

PS Form 3800, August 2006 See Reverse for Instructions

7014 0150 0001 7689 9527

U.S. Postal Service™	
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(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 1.82
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 7.82

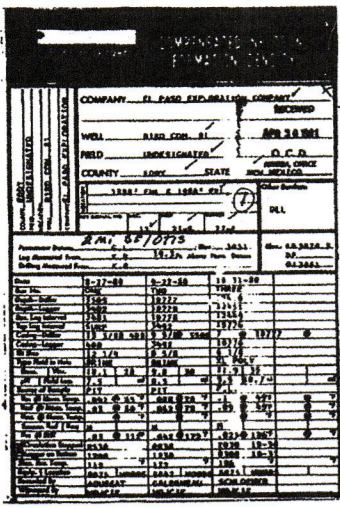
Postmark Here
JUL 16 2014
ROSWELL, NM 87001

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

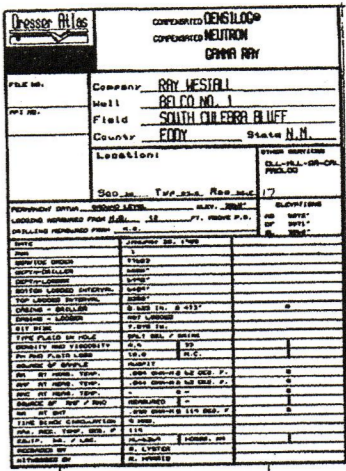
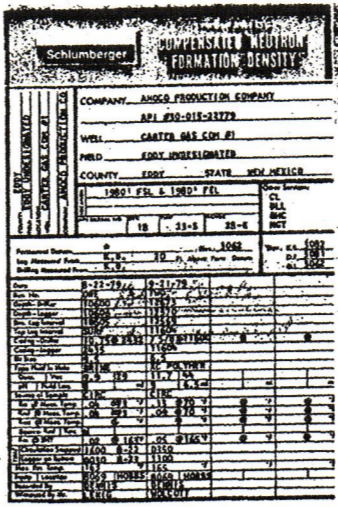
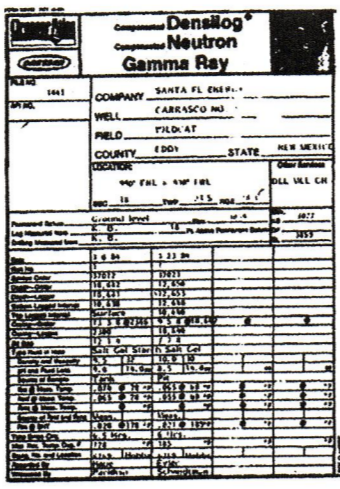
PS Form 3800, August 2006 See Reverse for Instructions

A

A'



NW Oil Services, LLC
Proposed SWD Location
1980 ft. FSL and 860 ft. FWL
Section 7, T23S, R28E
Eddy County, New Mexico



KB: 3070.3 feet

KB: 3077 feet

KB: 3082 feet

KB: 3072 feet

TIME	DEPTH	LOG	TIME	DEPTH	LOG
10:00	100	100	10:00	100	100
10:05	105	105	10:05	105	105
10:10	110	110	10:10	110	110
10:15	115	115	10:15	115	115
10:20	120	120	10:20	120	120
10:25	125	125	10:25	125	125
10:30	130	130	10:30	130	130
10:35	135	135	10:35	135	135
10:40	140	140	10:40	140	140
10:45	145	145	10:45	145	145
10:50	150	150	10:50	150	150
10:55	155	155	10:55	155	155
11:00	160	160	11:00	160	160
11:05	165	165	11:05	165	165
11:10	170	170	11:10	170	170
11:15	175	175	11:15	175	175
11:20	180	180	11:20	180	180
11:25	185	185	11:25	185	185
11:30	190	190	11:30	190	190
11:35	195	195	11:35	195	195
11:40	200	200	11:40	200	200
11:45	205	205	11:45	205	205
11:50	210	210	11:50	210	210
11:55	215	215	11:55	215	215
12:00	220	220	12:00	220	220
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12:45	265	265	12:45	265	265
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14:45	385	385	14:45	385	385
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15:10	410	410	15:10	410	410
15:15	415	415	15:15	415	415
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18:55	635	635	18:55	635	635
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24:40	980	980	24:40	980	980
24:45	985	985	24:45	985	985
24:50	990	990	24:50	990	990
24:55	995	995	24:55	995	995
25:00	1000	1000	25:00	1000	1000

POSSIBLE
SHALLOW
AQUIFERS

ANHYDRITE

SALT

ANHYDRITE

SALT

ANHYDRITE

TOP DELAWARE LIMESTONE (LAMAR)

PARAMETERS					
TIME		DEPTH	VALUE	TIME	DEPTH
00		0.0	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
00		1000	PPH	PPH	
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OXY USA Inc.

A subsidiary of Occidental Petroleum Corporation

5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521
P.O. Box 27570, Houston, Texas 77227-7570
Phone 713.350.4816

July 28, 2014

New Mexico Oil Conservation Division
Attention: Jami Bailey
1220 South St. Francis Drive
Santa Fe, NM 87505

RECEIVED OCD

2014 JUL 29 A 8:33

Case 15354

Re: Protest of C-108 Application
NW SWD #1
Sec 7, T23S-R28E
Eddy County, New Mexico

Dear Director Bailey:

OXY USA Inc. (hereinafter "OXY"), submits this protest of the NW SWD #1 C-108 application offered by NW Oil Services, LLC located in the above described lands. Based on a review of the application, OXY has determined injection to the depths of 3,900' to 5,700' would impact the Cherry Canyon formation in addition to the Brushy Canyon intervals. As a result, OXY's future development of the Cherry Canyon/Brushy Canyon formations would be negatively impacted.

Please note our protest of the subject application. If you have any questions or to discuss, please feel free to contact me at (713) 350-4816 or via email at Jeremy_Murphrey@oxy.com.

Respectfully,

Jeremy Murphrey
Land Negotiator Sr.
OXY USA Inc.

Enclosures

MARTIN**DUGAN &****MARTIN***Martin, Dugan & Martin*Carlsbad Office:

509 W. Pierce St.
P.O. Box 2168
Carlsbad, NM 88221-2168
(575) 887-3528
Fax (575) 887-2136

Artesia Office:

324 W. Main
Suite 105
Artesia, NM 88210
(575) 736-6747
Fax (575) 736-7600

W. T. Martin, Jr.
Kenneth D. Dugan *
Lane T. Martin
Mark R. Horton
Sheila L. Garcia
(* Also licensed in Texas)

FACSIMILE TRANSMISSION**DATE:** July 25, 2014

TO: OIL CONSERVATION DIVISION
ATTENTION: DIRECTOR JAMI BAILEY
FAX NO.: (505) 476-3462

NO. OF PAGES, INCLUDING COVER PAGE: 4**FROM:** Kenneth D. Dugan

Please call Jovy at (575) 887.3528 if the transmission is unclear or pages are missing.

I do hereby certify that I have completed the transmission set forth above.

By: Jovy Estrada
JOVY ESTRADA

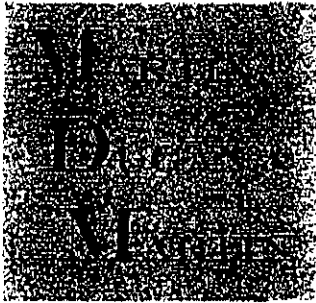
MESSAGE:

Please see the attached Objection To Application. Thank you!

.....
THIS MESSAGE IS INTENDED **ONLY** FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. If the receiver of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via the U.S. Postal Service.
THANK YOU.

Case 15354

RECEIVED OGD
2014 JUL 25 A 10:15



Martin, Dugan & Martin

Carlsbad Office:

509 W. Pierce St.
P.O. Box 2168
Carlsbad, NM 88221-2168
(575) 887-3528
Fax (575) 887-2136

Artesia Office:

324 W. Main
Suite 105
Artesia, NM 88210
(575) 736-6747
Fax (575) 736-7600

W. T. Martin, Jr. *
Kenneth D. Dugan *
Lane T. Martin
Mark R. Horton
Sheila L. Garcia
(* Also licensed in Texas)

OBJECTION TO APPLICATION

Via First Class Mail, Facsimile and E-mail (phillip.goetze@state.nm.us)

Oil Conservation Division
Attn: Director Jami Bailey
1220 South St. Francis Drive,
Santa Fe, New Mexico 87505

Case 15354

2014 JUL 25 A 10:11
RECEIVED OCD

RE: Protest of Application for Injection Well by NW Oil Services, LLC, Well No. NW SWD #1

Dear Ms. Bailey:

This firm represents George Brantley, Draper Brantley, Delaware Ranch, Inc., and Brantley Bros., a general partnership composed of John Draper Brantley, Jr., and George Henry Brantley (collectively, the "Brantleys"). The Brantleys hereby protest and object to the Application for Authorization to Inject ("Application") filed by NW Oil Services, LLC, proposed Well No. NW SWD #1, to be located in Section 7, T23S, R28E in Eddy County, New Mexico (the "Proposed SWD Well").

The Brantleys own real property, mineral rights, and water rights near the Proposed SWD Well. The Brantley "A" #1 well, in particular, is an active oil and gas well within one-half mile of the Proposed SWD Well. Accordingly, the Brantleys are interested and/or affected persons under N.M.Admin.Code § 19.15.26.

Pursuant to N.M.S.A. § 70-2-12(B)(7) and (15), the OCD may only authorize drilling of a disposal well if it does not cause "injury to neighboring leases or properties" and if it affords "reasonable protection against contamination of fresh water supplies designated by the state engineer." The OCD is further compelled by statute,

to prevent the drowning by water of any stratum or part thereof capable of producing oil or gas or both oil and gas in paying quantities and to prevent the premature and irregular encroachment of water or any other kind of water encroachment that reduces or tends to reduce the total ultimate recovery of crude petroleum oil or gas or both oil and gas from any pool.

N.M. Admin. Code § 70-2-12(B)(4).

In fact, the Proposed SWD Well will likely contaminate and/or impair neighboring ground water, oil and gas reserves, and other Brantley interests. As noted in the Application, Bone Springs lies below the proposed disposal injection zone. Brantley Well "A" No. 1 is within one-half mile of the Proposed SWD Well, and is extracting gas from Bone Springs. Applicant NW represents Bone Springs begins at 7,600 feet. Brantleys dispute that fact. Regardless, there simply is no way to assure that the salt water injected into the proposed well will not migrate into and/or contaminate the water and/or the neighboring oil and gas reserves.

Moreover, the Applicant cannot provide any assurance that any injections will remain directly below the property for which Applicant has leased or acquired mineral and real property interests. The injected water inevitably will migrate into and under neighboring properties, including the Brantley properties. Applicant apparently only has rights to 80 acres in the concerned section. That is a relatively small piece of property. In fact, the concerned well apparently is only a few hundred yards from Brantleys' property line. Accordingly, the injection will inevitably result in a trespass onto and into the Brantleys' real property and mineral interests.

In Hartman v. Texaco Inc., 1997-NMCA-032, the Court upheld a \$2.5 million dollar verdict in favor of the plaintiff arising out of trespass by an oil company in injecting water at high pressures that migrated to neighboring property. In that case, Doyle Hartman, an independent oil and gas operator, was trying to drill a gas well in Lea County, New Mexico. Hartman hit an uncontrolled, high pressure waterflow at a depth of 2281 feet, which was in the Salado formation. After many days and hundreds of thousands of dollars in consultations, Harman was forced to plug and abandon the well. Hartman investigated reasons for the blowout and discovered that Texaco had injected high pressure water in a waterflood, secondary recovery operation 2 ½ miles from the well. Harman filed suit. The jury found Texaco had injected water into its RYU injection wells at pressures sufficient to create vertical fractures in the Yates formation that extended through the Tansill and up to the Salado, and that substantial volumes of the injected water migrated 2 ½ miles to the plaintiff's lease area and into his well. The jury awarded Hartman \$2.5 million in damages. On appeal, the Court of Appeals upheld the verdict based on the common law cause of action for trespass, holding that "in New Mexico an action for common law trespass does provide relief for trespass beneath the surface of the land." Id. ¶ 15.

This case is no different. The Lessee, Occidental, is planning on drilling 5-6 horizontal oil/gas wells in the Bone Springs formation on the Brantleys' property in the next 6-18 months. The Brantleys would earn millions of dollars in royalties from those operations. If NW Oil Services is permitted to inject high pressure water into the formation above Bone Springs, that water will have to go somewhere. NW Oil Services only owns approximately

80 acres in the 640 acre section. Logically, the injected water will flow into the neighboring properties, including the over 440 acres owned by the Brantleys. When the Brantleys and/or Occidental (or other operators) attempt to drill into Bone Springs, they will encounter the pressurized water and inevitably be forced to abandon drilling operations. The damages to the Brantleys and other neighbors will be tens to hundreds of millions of dollars. The OCD lacks authority to authorize any such trespass. Snyder Ranches, Inc. v. Oil Conservation Com'n of State of N.M., 110 N.M. 637, 798 P.2d 587 (N.M.,1990)("The State of New Mexico may be said to have licensed the injection of salt water into the disposal well; however, such license does not authorize trespass. The issuance of a license by the State does not authorize trespass or other tortious conduct by the licensee....").

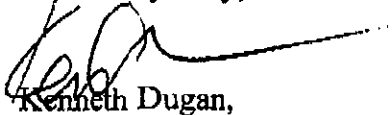
Also, as represented in NW Oil Services' application, other oil and gas zones, the Atoka and Morrow, lie below the proposed injections at 10,500 to 12,500 feet. Injection of high-pressure water above those zones will inevitably impact the viability of drilling oil at those depths. NW Oil Services cannot provide the OCD the required evidence necessary to prove other interested parties, including the Brantleys, will not be harmed by the injections.

Moreover, there is no indication from the Application upon what authority – whether as fee owner, lessee, or operator – Applicant asserts its authority to drill a disposal well on the site. In particular, there is no indication Applicant has procured consent from the mineral owner of the concerned property for the injection. Brantleys contend the Applicant does not have the proper authority to dispose of water on the concerned property, which will inevitably impact the mineral owners of the property and neighboring properties, including the Brantleys.

Accordingly, Brantleys hereby protest the Application and request an evidentiary hearing and ultimate denial of the Application. Brantleys reserve any and all alternative bases for protest, whether stated herein or otherwise.

Thank you.

Yours very truly,



Kenneth Dugan,
MARTIN, DUGAN & MARTIN

Goetze, Phillip, EMNRD

From: Phelps White <pwiv@zianet.com>
Sent: Monday, July 21, 2014 5:02 PM
To: Goetze, Phillip, EMNRD
Subject: RE: C-108 Application for the NW SWD No.1

This is a brand new Operator, I got them set up and their OGRID # is 290889. I submitted an application to drill the well to the Artesia office the same day I submitted their copy of the C-108

From: Goetze, Phillip, EMNRD [<mailto:Phillip.Goetze@state.nm.us>]
Sent: Monday, July 21, 2014 4:37 PM
To: Phelps White
Cc: Ezeanyim, Richard, EMNRD; McMillan, Michael, EMNRD
Subject: C-108 Application for the NW SWD No.1

Mr. White:

OCD has received two copies of the application for the NW SWD No. 1 in Unit L, Section 7, T23S, R28E, NMPM with proposed disposal in the Delaware. The application has NW Oil Services, LLC as applicant and operator. Unfortunately, I cannot locate a valid OGRID number for this entity. Since there is no valid OGRID, I will be retaining the application, but unable to proceed with any review of the application. Please provide any additional information that may resolve this situation – is this a new company? Has application been made to become and operator? Please call or e-mail when possible. PRG

Phillip R. Goetze, P.G.
Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
O: 505.476.3466 F: 505.476.3462
phillip.goetze@state.nm.us

Hanket Bond with Lexon Ins. Co.

Goetze, Phillip, EMNRD

From: Goetze, Phillip, EMNRD
Sent: Monday, July 28, 2014 1:52 PM
To: Phelps White (pwiv@zianet.com)
Cc: Ezeanyim, Richard, EMNRD; McMillan, Michael, EMNRD; 'Ken Dugan'; 'Jeremy_Murphrey@oxy.com'; Donna_Havins@oxy.com
Subject: Two Notices of Protests for Injection Application - NW SWD No. 1
Attachments: NW SWD #1_Protest_Director (7.28.2014).pdf

RE: NW SWD No. 1 (API 30-015-Pending) Sec 7, T. 23 S., R. 28 E., NMPM, Eddy County.

Mr. White:

OCD was notified by two parties, OXY USA, Inc. and the "Brantleys", that they are protesting this application. The "Brantleys" is a collective of George Brantley, Draper Brantley, the Delaware Ranch, Inc., and the Brantley Brothers partnership. All of these interests are represented through counsel by Kenneth Dugan of Martin, Dugan & Martin. Both parties are identified as affected persons for the location being considered in the application. Both parties has stated that the proposed application will adversely impact their existing and potential resources on properties in the area of the location. Therefore, you are being notified that if NW Oil Services, LLC wishes for this application to be considered, it must either go to hearing or may be reviewed administratively if the protests are withdrawn as a result of a negotiated resolutions with both parties. The application will be retained once it is received by OCD, but suspended from further administrative review. Please contact OCD once you have made a decision regarding the application. Please me call with any questions regarding this matter. PRG

Contact Information:

Kenneth Dugan
Martin, Dugan & Martin
509 W. Pierce St.
P.O. Box 2168
Carlsbad, NM 88221-2168
575.887.3528 (phone)
575.887.2136 (fax)

Jeremy Murphy, Sr. Land Negotiator
OXY USA, Inc.
5 Greenway Plaza, Suite 110, Houston, TX 77046-0521
P.O. Box 27570, Houston, TX 77227-7570
713.350.4816 (phone)

Phillip R. Goetze, P.G.

Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
O: 505.476.3466 F: 505.476.3462
phillip.goetze@state.nm.us