

7/2/15 7/24/15 WSD 7/16/15 SWD 1567 PWV 151954234

DATE IN SUSPENSE ENGINEER LOGGED TYPE APP NO.

after NOTICE

ABOVE THIS LINE FOR DIVISION USE ONLY



## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

### ADMINISTRATIVE APPLICATION CHECKLIST

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

#### Application Acronyms:

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

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify \_\_\_\_\_
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☒ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 (proof of publication to follow 7/09/2015)
- [F] ☐ Waivers are Attached

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

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

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

Shelly Doescher  
 Print or Type Name


Signature

Agent  
 Title

07-02-2015  
 Date

shelly\_doescher@yahoo.com  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? Yes No
- II. OPERATOR: Breitbart Operating LP  
ADDRESS: 1401 McKinney Street Houston, Texas 77010  
CONTACT PARTY: Jeanie McMillan PHONE: 713-634-4696
- 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: Shelly Doescher TITLE: Agent  
SIGNATURE:  DATE: July 2, 2015  
E-MAIL ADDRESS: shelly\_doescher@yahoo.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: \_\_\_\_\_

1

State of NM

02: T19N.R30E

Mitchell, T.E. & Son Inc.

01: T19N.R30E

Mitchell, T.E. & Son Inc.

State of NM

LC Family Land Company, Inc.

08: T19N.R31E

State of NM

State of NM

Mitchell, T.E. & Son Inc.  
11: T19N.R30E

Hayoz, William J. et al.

Hayoz #2

Hayoz #1

Thibodeau Holdings LTD

12: T19N.R30E

State of NM

TLC Family Land Company, Inc.

Libby Minerals, LLC 1930 12-3

07: T19N.R31E

1/2 mile radius

BUENOS HWY

Yes

Hayoz

Hayoz, William J. et al.

TLC Family Land Company, Inc.

18: T19N.R31E

Hayoz, William J. et al.  
14: T19N.R30E

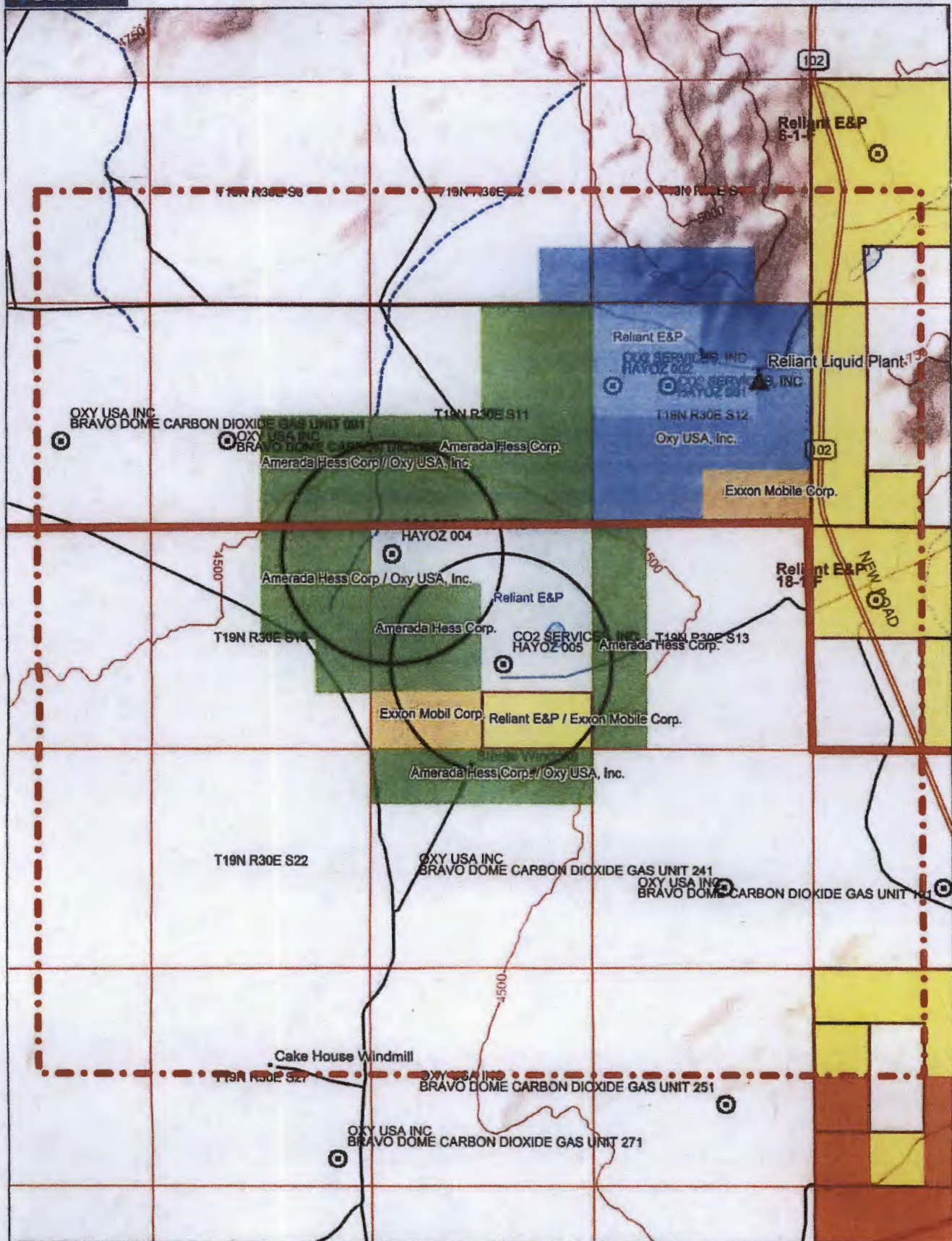
13: T19N.R30E

Mitchell, T.E. & Son Inc.

TLC Family Land Company, Inc.

State of NM





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www.delorme.com



Scale 1 : 37,500



Data Zoom 12-0



## INJECTION WELL DATA SHEET

OPERATOR: Breitburn Operating LPWELL NAME & NUMBER: Libby Minerals LLC 1930 No. 12-3-GWELL LOCATION: 2263' FNL and 1483' FEL

FOOTAGE LOCATION

G

UNIT LETTER

12

SECTION

19N

TOWNSHIP

30E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATA

Surface Casing

Wellbore Schematic (PROPOSED)				Breitburn Operating L.P.			
Installation				Libby Ranch Field, NM			
Length				Libby Ranch 1930 12-3-G			
Depth				Company Rep.			
10.00				API No.			
10.00				Revised: 7/2/2015			
Description				Share Kersple			
10.00				Not Assigned			
760.00				Hole Size: 12-1/4"			
Surface Casing: 8-5/8", 32.3 lbm, H-40, STEC				Casing Size: <u>8-5/8"</u>			
Cement: 400 cc Class C				Cemented with: <u>400</u> sx. <u>or</u> <u>ft</u>			
Tubing: 3-1/2", 7.7 lbm, J-55, IPC				Top of Cement: <u>Surface</u>			
2,800.00				Intermediate Casing <u>N/A</u>			
Hole Size: 8-3/4"				Hole Size: _____			
Production Casing: 7", 23 lbm, J-55, 8rd, L7&C				Casing Size: _____			
Cement: 500 cc Class C				Cemented with: _____ sx. <u>or</u> <u>ft</u>			
Packer: 7" AS1-XW w/ T-3 on/off tool				Top of Cement: _____			
7"				Method Determined: _____			
1,425.00				Production Casing			
Glorieta Formation Top				Hole Size: <u>8-3/4"</u>			
2,045.00				Casing Size: <u>4" 5 1/2</u>			
Tubb Formation Top				Cemented with: <u>500</u> sx. <u>or</u> <u>ft</u>			
Potential Perforation Interval 1930-2048'				Top of Cement: <u>Surface</u>			
2048-2160'				Method Determined: <u>CBL</u>			
PBTD 2800'				Total Depth: <u>2600'</u>			
TD 2800'				Injection Interval <u>2125</u> <u>2600</u>			
Libby Ranch 1930 12-3-G				<u>1520</u> feet to <u>2160</u> feet (perforated)			

(Perforated or Open Hole; indicate which)





# BreitBurn Operating L.P.

Libby Ranch Field, NM  
 Libby Ranch 1930 12-3-G  
 Revised: 7/13/2015

Company Rep.  
 API No.

Shane Kwapis  
 Not Assigned

Wellbore Schematic (PROPOSED)		Length	Depth	Description	OD	ID
	Installation	10.00	10.00	KB		
			750.00	Hole Size: 12-1/4" Surface Casing: 8-5/8", 24 lb/ft, J-55, ST&C Cement: 400 sx Class C	8.625"	8.097"
				Tubing: 2-7/8", 6.4 lb/ft, J-55, IPC	2.875"	2.441"
			2,600.00	Hole Size: 7-7/8" Production Casing: 5-1/2", 15.5 lb/ft, J-55, 8rd, LT&C Cement: 500 sx Class C	5.5"	4.95"
				Packer: 5-1/2" AS1-XW w/ T-2 on/off tool	5.5"	
			1,520.00	Glorieta Formation Top		
			2,049.00	Tubb Formation Top		
				Potenital Perforation Intervals: 1520'-2048' 2125'-2185'		
				PBTD 2600'	Filename:	
				TD 2600'	Libby Ranch 1930 12-3-G	

**INJECTION WELL DATA SHEET**

Tubing Size: 3-1/2", 7.7#, J-55 Lining Material: IPC

Type of Packer: 7" ASI-XW w/T-2 on/off tool

Packer Setting Depth: Approximately 1500 feet.

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

Additional Data

1. Is this a new well drilled for injection? X Yes    No  
 If no, for what purpose was the well originally drilled? \_\_\_\_\_

2. Name of the Injection Formation: ~~Glorietta~~, Lower Tubb

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

4. Has the well ever been perforated in any other zone(s)? No List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. \_\_\_\_\_

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:  
 No oil or gas zones above the Glorietta formation. The Tubb formation top is below the Glorietta formation at 2049 feet.

## Well Tabulation Sheet

Wells within One-Half Mile of the Libby Minerals LLC 1930 No. 12-3-G

Unit	Section	Operator	Well	Location	Spud Date	T.D.	Status	Perfs
F	12	Breitbart Operating LP	Hayoz No. 001	1980' FSL 990' FEL	11/15/1983	2240'	Producing CO2 well	1555'-1620' (Glorieta) 2093'-2161' (Tubb)
E	12	Breitbart Operating LP	Hayoz No. 002	1980 FNL 660' FWL	02/14/1980	2240'	Producing CO2 well	2030'-2134' (Tubb)

*See well*



Breitburn Operating LP  
Libby Minerals LLC 1930 No. 12-3-G Injection Well  
C-108 Data Sheet

V. See attached maps

VI. See attached Tabulation Sheet

VII. Operation Data

1. A. Average Daily Injection Rate =350 bbls  
Maximum Daily Injection Rate=700 bbls
- B. Proposed Volume 1,277,500 bbls
2. The system is open (water will be trucked to the facility)
3. Proposed Pressures: Average and maximum injection pressures will be determined from a step rate test run after the stimulation.
4. Source of Injection Fluid: Tubb formation water from surrounding wells. (Please see the attached water analysis.)  
The Glorieta formation is dry so there should be no compatibility issues in the injection zone.
5. There is no indication from the State Engineers website that there are any water wells drilled to the Glorieta formation.

VIII. Geology

The Glorieta Sandstone is the shallowest Permian age sandstone of significant thickness. The sand is usually a white to pink fine-to medium-grained slightly gypsiferous unconsolidated sand. There are no known domestic water wells within the area of interest. There is one well listed on the website of the Office of the State Engineer which is 920 meters away in the SE/4 of Section 12, T19N, R30E but no depth to ground water is listed. The depth of the well is reported as 250'. A water analysis of the proposed injection water is attached. This analysis indicates that the Tubb Formation water has a TDS of approximately 48,800 ppm.

IX. Operator plans to stimulate the Glorieta with a yet to be determined amount of HCl acid and ball sealers.

X. Well logs will be provided to the NMOCD.

XI. Analysis of the Tubbs Formation water is attached.

XII. The relatively impermeable San Andreas Limestone overlies the Glorieta Sandstone. According to a report prepared by the USGS, which studied the potential of brine contamination from glorieta Sandstone injection wells into shallower aquifers, there is no evidence of any cross flow from any of the many Glorieta SWD wells in the Texas and Oklahoma panhandle area. (1.)

XII. See attached mail receipts.

(1.) Geologic Information on the Glorieta Sandstone and the Ogallala Formation in the Oklahoma Panhandle and Adjoining Areas as Related to Underground Waste Disposal, James H. Irwin and Robert B. Morton, Geological Survey Circular 630, 1969 and 1978.







## New Mexico Office of the State Engineer Point of Diversion Summary

POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
TU 01913 POD1	4 3 4 12 19N 30E	617252	3972037

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

**Driller License:** DESERT SAND WATER WELL

**Driller Name:**

**Drill Start Date:**

**Drill Finish Date:**

**Plug Date:**

**Log File Date:**

**PCW Rcv Date:**

**Source:**

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:**

**Casing Size:**

**Depth Well:** 250 feet

**Depth Water:**

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-		Q Q Q			Rng	X	Y	Distance	Depth	Depth	Water
	Code	basin	County	64	16	4	Sec	Tws		Well	Water	Column
TU 01913 POD1			HA	4	3	4	12	19N	30E	617252	3972037	920 250
TU 00503			HA	4	4	3	34	20N	30E	613503	3975192*	4034 80
TU 01740 POD1			HA	2	4	3	34	20N	30E	613570	3975305	4049 300
TU 00513			HA	1	3	2	04	19N	30E	612104	3974571*	4980 60

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 4

## UTMNAD83 Radius Search (In meters):

Easting (X): 616766

Northing (Y): 3972819

Radius: 5000

\*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.







July 1, 2015

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

TO: OFFSET OPERATORS/LEASEHOLE OWNERS AND SURFACE OWNERS  
(See attached Notice List)

RE: Breitburn Operating LP  
Form C-108 (Application for Authorization to inject  
Libby Minerals LLC 1930 #12-3  
API No. – not assigned yet  
2265' North & 1483' East, UL G, Section 12, T19N, R30E, NMPM,  
Harding County, New Mexico

Ladies and Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Libby Minerals LLC #12-3 SWD. You are being provided a copy of the application as an offset operator/leaseholder or as the owner of the surface where the proposed well is located. Breitburn Operating LP proposes to drill the Libby Minerals LLC #12-3 and utilize the well as a produced water disposal well, injection to occur into the Glorieta and Lower Tubb formations through the perforated interval from approximately 1520 feet to 2160 feet.

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact undersigned at (713) 634-4696.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Jeanie McMillan', is written over the typed name.

Jeanie McMillan  
Regulatory Manager

jm  
Encl.



**Libby Minerals LLC 1930 #12-3-G**  
**Section 12, Township 19 North, RTange 30 East, NMPPM**

**LIST OF OFFSET MINERAL, SURFACE and LEASE HOLD OWNERS WITHIN ½ MILE**

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

TE Mitchell & Son Inc.  
TEQUESQUITE RANCH  
665 Tequesquite Lane  
Albert, NM 87733

Reliant Holdings  
300 N Marienfeld St. #600  
Midland, Texas 79701

Hayoz, et al  
Loretta Hayoz  
P O Box 93663,  
Albuquerque, NM 87199

Christine Hayoz  
P O Box 38  
Mosquero, NM 87733

Libby Minerals, LLC  
250 Bravo Dome Hwy  
Bueyeros, NM 88415

OXY  
5 Greenway Plaza, Suite 110  
Houston, Texas 77046-0521

EXXON  
**Exploration and Producing Operations**  
800 Bell Street  
Houston, Texas 77002

BREITBURN OPERATING LP  
1401 McKinney St., Suite 2400  
Houston, TX 77010

7015 0640 0004 6804 3017

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ALBUQUERQUE, NM 87199

Certified Mail Fee

\$3.45

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$2.80

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage

\$1.42

Total Postage and Fees

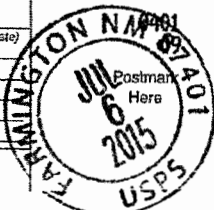
\$7.67

07/06/2015

Loretta Hayoz, Hayoz, et al

PO Box 93663

Albuquerque, New Mexico 87199



7015 0640 0004 6804 3055

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☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage

\$1.42

Total Postage and Fees

\$7.67

07/06/2015

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EXXON

Street and

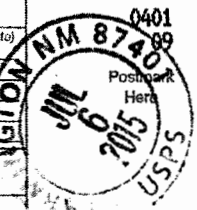
Exploration & Producing Operations

City, State

800 Bell Street

PS Form

Houston, Texas 77002



7015 0640 0004 6804 3031

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MIDLAND, TX 79701

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☐ Adult Signature Required \$0.00

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Postage

\$1.42

Total Postage and Fees

Sent To

Reliant Holdings

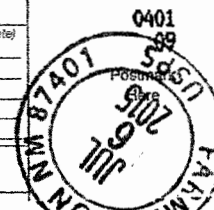
Street

300 N Marienfeld St # 600

City, S

Midland, Texas 79701

PS Fo



7015 0640 0004 6804 3062

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SANTA FE, NM 87505

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☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage

\$1.42

Total Postage and Fees

\$7.67

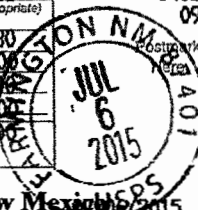
07/06/2015

State of New Mexico

Oil Conservation Division

1220 South Francis Dr.

Santa Fe, New Mexico 87505



7015 0640 0004 6804 3048

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CLAYTON, NM 88415

Certified Mail Fee

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Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$2.80

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage

\$1.42

Total Postage and Fees

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Street and

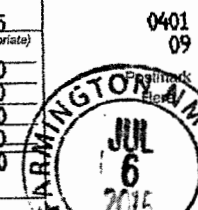
City, State, ZIP

PS Form 380

Libby Minerals, LLC

250 Bravo Dome Hwy

Bueyeros, New Mexico 88415



7015 0640 0004 6804 2997

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MOSQUERO, NM 87733

Certified Mail Fee

\$3.45

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$2.80

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage

\$1.42

Total Postage and Fees

Sent To

Street

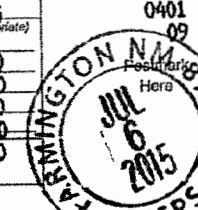
City

PS

Tequesquite Ranch

665 Tequesquite Lane

Albert, New Mexico 87733



7015 0640 0004 6804 3000

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**MOSQUERO, NM 87733**

Certified Mail Fee	\$	<b>\$3.45</b>	0401
Extra Services & Fees (check box, add fee as appropriate)			09
<input type="checkbox"/> Return Receipt (hardcopy)	\$		
<input type="checkbox"/> Return Receipt (electronic)	\$	<b>\$2.80</b>	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	<b>\$0.00</b>	
<input type="checkbox"/> Adult Signature Required	\$	<b>\$0.00</b>	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	<b>\$0.00</b>	
Postage	\$	<b>\$1.42</b>	
Total Postage and Fees	\$	<b>\$7.67</b>	

Sent to: **Christine Hayoz**  
Street: **PO Box 38**  
City, State: **Mosquero, New Mexico 87733**

Postmark: **7015 0640 0004 6804 3000**

7015 0640 0004 6804 3000

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**Jones, William V, EMNRD**

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**From:** Landon Berg <Landon.Berg@breitburn.com>  
**Sent:** Monday, July 27, 2015 12:51 PM  
**To:** Jones, William V, EMNRD  
**Cc:** James Alexander  
**Subject:** SWD well - Permitting Statement

Will,

Per our previous conversation regarding plans of injecting Saltwater via newly permitted saltwater disposal well, it is Breitburn's intention is to drill through the Tubb formation to basement (Granite formation). While doing so, we will then test the Glorieta formation to verify if it is either dry or wet. We will then receive a TDS count. If the total dissolved solids are < 10,000 mg/l, we will be unable to dispose of produced saltwater into the Glorieta formation.

If we are unable to dispose of saltwater into the Glorieta formation, our alternate plan would be to inject into the Tubb Sandstone below the GWC (Gas Water Contact). By injecting into the lower portion of the sands, we do not believe we will be affecting existing reserves. If we do see any effect in the offsetting wells, we will take remedial action.

Thanks,



BREITBURN

**Landon O. Berg**  
Geologist  
[landon.berg@breitburn.com](mailto:landon.berg@breitburn.com)

**BreitBurn Energy Company, LP**  
1401 McKinney Street, Suite 2400  
Houston, TX 77010  
713.632.8715 Tel  
713.437.8098 Fax



## Jones, William V, EMNRD

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**From:** SHELLY DOESCHER <shelly\_doescher@yahoo.com>  
**Sent:** Monday, July 27, 2015 10:04 AM  
**To:** Jones, William V, EMNRD  
**Subject:** Re: The proposed SWD well

Change of plans:

James (Dee) Alexander, our land man, wants the name of the SWD well to be:

Breitburn Operating LP SWD 1930 No. 12-3-G

I don't know if you can make the change or want to reject the APD and I'll edit. Please advise.

Thanks,  
Shelly

On Monday, July 27, 2015 9:02 AM, "Jones, William V, EMNRD" <WilliamV.Jones@state.nm.us> wrote:

Hello Shelly,  
You can leave the NAD27 Lat/longs the way they are.... I cleared that with the IT guy here.  
From the attachment you sent, am a bit confused on the name you want to use for the SWD well.  
Tell me again which name you want for that well?

There is another well in that Q-Q and it was plugged before 1993 so it is Pre-Ongard – see the API number.

---

**From:** SHELLY DOESCHER [mailto:shelly\_doescher@yahoo.com]  
**Sent:** Monday, July 27, 2015 8:52 AM  
**To:** Jones, William V, EMNRD  
**Subject:** Re: The proposed SWD well

Will,

I have edited the APD for this SWD and changed the name to Libby Ranch. I also converted the Lat and Long to Nad 83. In the other Libby Minerals APD submitted, I can't edit until you reject. If you want to go through and reject them all, I'll make the changes in the well number format and the lat and long and resubmit.

Also see attached. When I go to SUBMIT for the corrected Libby Ranch SWD 12-3, the OGRID and Operator change to Pre-Ongard...don't know why

On Monday, July 27, 2015 7:55 AM, "Jones, William V, EMNRD" <[WilliamV.Jones@state.nm.us](mailto:WilliamV.Jones@state.nm.us)> wrote:

Hello Shelly,  
David Catanach wanted to just make sure...  
Will this SWD well be named the:

Libby Ranch 1930 SWD Well No. 123G  
Libby Minerals 1930 SWD Well No. 123G

or will it be named:

The proposed well location in Unit letter G is just outside the Bravo Dome Unit according to my map so I can see you naming it Libby Ranch.

Will

## Jones, William V, EMNRD

**From:** SHELLY DOESCHER <shelly\_doescher@yahoo.com>  
**Sent:** Wednesday, July 08, 2015 8:24 AM  
**To:** Jones, William V, EMNRD  
**Cc:** Shane Kwapis; Jeanie McMillan  
**Subject:** Fw: Well Data Sheet correction

Will,

Please see new perfs for Lower Tubb. A new Well Data Sheet will be included in final package.

Perfs should now be:

1520'-2148' and 2125'-2185'.

Thanks,  
Shelly

On Wednesday, July 8, 2015 7:14 AM, Landon Berg <Landon.Berg@breitburn.com> wrote:

Tubb Interval to inject into (below GWC): 2125' – 2185' MD.

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**From:** Shane Kwapis  
**Sent:** Wednesday, July 08, 2015 7:47 AM  
**To:** Landon Berg  
**Cc:** SHELLY DOESCHER  
**Subject:** Re: Well Data Sheet correction

Landon,

Can you please use an analog well to help us narrow down the Tubb interval to at least the lower half and get it to Shelly? I think that this will get us close enough. We need to fix this before the state will proceed forward with the permit so it is important we get it to her quickly.

Thanks

Sent from my iPhone

On Jul 8, 2015, at 7:43 AM, SHELLY DOESCHER <[shelly\\_doescher@yahoo.com](mailto:shelly_doescher@yahoo.com)> wrote:

Good morning Shane.

Can you please send contact information for Buck and I'll get well information to him for water sample. (There is one well within a one mile radius of the #12-3).

Any word on corrected perfs?

Thanks,  
Shelly

On Tuesday, July 7, 2015 6:38 AM, Shane Kwapis <[shane.kwapis@breitburn.com](mailto:shane.kwapis@breitburn.com)> wrote:

## Jones, William V, EMNRD

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**From:** Jones, William V, EMNRD  
**Sent:** Tuesday, July 14, 2015 9:27 AM  
**To:** 'SHELLY DOESCHER'  
**Subject:** RE: SWDW Libby Minerals 12-3

Thanks,  
These don't overlap.

If you want to confine initial disposal to the Lower Tubb – let me know what those perms would be.  
And if you want the entire Glorieta/Tubb permitted, please send the statement from a reservoir engineer as to the effect water disposal would have on the main CO2 interval.

Regards,  
Will

**From:** SHELLY DOESCHER [mailto:shelly\_doescher@yahoo.com]  
**Sent:** Tuesday, July 14, 2015 9:15 AM  
**To:** Jones, William V, EMNRD  
**Subject:** SWDW Libby Minerals 12-3

Good morning Will.

Sorry I missed your call.

Attached is a copy of the new WBD showing the correct perms.

Hope this works.

Thanks,  
Shelly  
505-320-5682





C-108 Review Checklist: Received \_\_\_\_\_ Add. Request: \_\_\_\_\_ Reply Date: \_\_\_\_\_ Suspended: \_\_\_\_\_ [Ver 14]

PERMIT TYPE: WFX / PMX / SWD Number: 1567 Permit Date: 7/24/15 Legacy Permits/Orders: \_\_\_\_\_

Well No. \_\_\_\_\_ Well Name(s): LIBBY MINERALS LC 1930# 12-3-G Free Surf  
Free Min (offset SL min)

API: 30-0 31-285 Spud Date: No C/P New or Old: \_\_\_\_\_ (UIC Class II Primacy 03/07/1982)

Footages 2265 FNL / 1483 FEL Lot \_\_\_\_\_ or Unit G Sec 12 Tsp 19N Rge 30E County Hardy

General Location: Mosquero Pool: \_\_\_\_\_ Pool No.: \_\_\_\_\_

BLM 100K Map: \_\_\_\_\_ Operator: Bridgman Operating LP OGRID: 370080 Contact: Shelly Descher

COMPLIANCE RULE 5.9: Total Wells: 493 Inactive: 2 Fincl Assur: OK Compl. Order? \_\_\_\_\_ IS 5.9 OK? ✓ Date: 7/14/15

WELL FILE REVIEWED ☒ Current Status: No File

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

Planned Rehab Work to Well: Drill / EQUIP

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface		<u>12 1/4 - 8 5/8</u>	<u>750</u>	<u>400</u>	
Planned ___ or Existing ___ Interm/Prod					
Planned ___ or Existing ___ Interm/Prod		<u>7 1/8 - 5 1/2</u>			
Planned ___ or Existing ___ Prod/Liner		<u>5 1/4 - 4 1/4</u>	<u>2600</u>	<u>500</u>	
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PERF					

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	<u>1500</u>	<u>2125</u>	<u>OTF Tub</u>
Proposed Inj Interval BOTTOM:	<u>2600</u>	<u>2600</u>	<u>Base Tub</u>
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD	<u>2600</u>
NEW TD	<u>2600</u>
NEW Open Hole	<input type="radio"/> or NEW Perfs <input checked="" type="radio"/>
Tubing Size	<u>2 7/8</u> in. Inter Coated? <input checked="" type="checkbox"/>
Proposed Packer Depth	_____ ft
Min. Packer Depth	_____ (100-ft limit)
Proposed Max. Surface Press.	_____ psi
Admin. Inj. Press.	<u>320</u> (0.2 psi per ft)

**AOR: Hydrologic and Geologic Information**

POTASH: R-11-L ☒ Noticed? BLM Sec Ord ☒ WHP ☒ Noticed? SALT/CAUTION B: CLIFFHOUSE

FRESH WATER: Aquifer \_\_\_\_\_ Max Depth \_\_\_\_\_ HYDRO AFFIRM STATEMENT By Qualified Person ☐

NMOSE Basin: \_\_\_\_\_ CAPTAIN REEF: thru ☒ adj ☐ NA ☐ No. Wells within 1-Mile Radius? 1 FW Analysis ☒

Disposal Fluid: Formation Source(s) Tubb Analysis? ☒ On Lease ☒ Operator Only ☐ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): \_\_\_\_\_ Protectable Waters? No Source: applicant System: Closed ☒ or Open ☐

HC Potential: Producing Interval? 6F Formerly Producing? \_\_\_\_\_ Method: Logs/DST/P&A/Other \_\_\_\_\_ 2-Mile Radius Pool Map ☐

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

Penetrating Wells: No. Active Wells 2 Num Repairs? 0 on which well(s)? now Diagrams? \_\_\_\_\_

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

NOTICE: Newspaper Date 7/6/15 Mineral Owner \_\_\_\_\_ Surface Owner \_\_\_\_\_ N. Date 7/6/15

RULE 26.7(A): Identified Tracts? \_\_\_\_\_ Affected Persons: Reliant / Exxon N. Date 7/6/15

Permit Conditions: Issues: Prod. interval