

HOLLAND & HART<sup>LLP</sup>



Jordan L. Kessler

Associate

Phone (505) 988-4421

Fax (505) 983-6043

JLKessler@hollandhart.com

November 25, 2015

**VIA HAND DELIVERY**

Mr. David Catanach, Director  
Oil Conservation Division  
New Mexico Department of Energy  
Minerals and Natural Resources  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

*Case 15431*

RECEIVED OGD  
2015 NOV 25 P. 1:37

**Re: Breitburn Operating LP Request for Hearing to Amend SWD-1567, Harding County, New Mexico.**

Dear Mr. Catanach:

Pursuant to NMAC 19.15.26.8(D) and 19.15.4.12(E), Breitburn Operating LP ("Breitburn") hereby requests that a hearing be set before a Division hearing examiner on the above-referenced application to amend SWD-1569. SWD-1569, dated July 28, 2015, granted Breitburn authority to dispose produced water into its Breitburn Operating LP 1930 SWD Well No. 123G (API No. 30-021-20682), located in Unit G, Section 12, Township 19 North, Range 30 East, NMPM, Harding County, New Mexico. By administrative application filed with the Oil Conservation Division, Breitburn sought to amend SWD-1569 to dispose into its Breitburn Operating LP 1930 SWD No. 124G (API No. 30-021-20692), located in Unit G, Section 12, Township 19 North, Range 30 East, NMPM, Harding County, New Mexico, and to modify the injection interval for the proposed disposal well.

Due to objections to the administrative application, Breitburn requests that this matter be set for hearing before on the Examiner Hearing Docket scheduled for December 17, 2015. Thank you for your attention to this matter.

Sincerely,

Jordan L. Kessler

**ATTORNEY FOR BREITBURN OPERATING LP**

Holland & Hart LLP

Phone [505] 988-4421 Fax [505] 983-6043 [www.hollandhart.com](http://www.hollandhart.com)

110 North Guadalupe Suite 1 Santa Fe, New Mexico 87501 Mailing Address P.O. Box 2208 Santa Fe, NM 87504-2208

Aspen Boulder Carson City Colorado Springs Denver Denver Tech Center Billings Boise Cheyenne Jackson Hole Las Vegas Reno Salt Lake City Santa Fe Washington, D.C. ☉

## Davidson, Florene, EMNRD

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**From:** Goetze, Phillip, EMNRD  
**Sent:** Tuesday, November 24, 2015 2:40 PM  
**To:** Shelly Doescher  
**Cc:** jrlibby@plateautel.net; Loretta H; Jones, William V, EMNRD; McMillan, Michael, EMNRD; Lowe, Leonard, EMNRD; Davidson, Florene, EMNRD; Wade, Gabriel, EMNRD; Jordan L. Kessler (JLKessler@hollandhart.com)  
**Subject:** Protests of Application to Inject - Breitburn Operating LP 1930 SWD No. 124G

*Case 15431*

RE: Breitburn Operating LP 1930 SWD No. 124G (API 30-021-20692; App. No. pMAM1531359203) UL G, Sec. 12, T19N, R30E, NMPM, Harding County  
Amending Existing order SWD-1567 dated July 28, 2015

Ms. Doescher:

OCD was notified by two parties that they are protesting this application for approval of an amendment for an existing salt water disposal well.. Therefore, you are being notified that if Breitburn Operating, LP wishes for this application to be considered, it must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained by OCD, but suspended from further administrative review. Please contact OCD once you have made a decision regarding the application within the next 30 days. If the protest remains after 30 days, OCD will initiate the process for the application to be reviewed at hearing. Please call/e-mail me with any questions regarding this matter. PRG

Contact Information:

1. Norman Libby, Jr.  
Libby Cattle Company  
400 Libby Road  
Bueyeros, NM 88415  
Phone/Fax: 575.673.236  
e-mail: [jrlibby@plateautel.net](mailto:jrlibby@plateautel.net)
2. Loretta Hayoz  
P. O. Box 93663  
Albuquerque, NM 87199  
Phone: 505.710.3841  
e-mail: [Loretta H rettah1@gmail.com](mailto:Loretta H rettah1@gmail.com)

RECEIVED OCD  
2015 NOV 24 P 2:43

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

November 12, 2015

RECEIVED

2015 NOV 18 P 3:02

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

Re: Breitburn Operating LP Form C-108, filing 12-4-G, Harding County, New Mexico  
Notice of drilling injection well published in Harding County legal notices November 4,  
2015.

Dear Clerk:

Please find enclosed an original and seven copies of protest to the referenced application to develop an injection well near my ranch. Please file and disburse the protest in accordance with commission rules. If you would, please provide a file stamped copy of this protest to the undersigned via fax or email. My fax number is 575-673-2365, email address: [jrlibby@plateautel.net](mailto:jrlibby@plateautel.net). I appreciate your assistance.

*Norman Libby, Jr. President*

Norman Libby, Jr.  
Libby Cattle Company, Inc.  
400 Libby Road  
Bueyeros, New Mexico 88415  
575-673-2365  
[jrlibby@plateautel.net](mailto:jrlibby@plateautel.net)

**BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION**

IN THE MATTER OF FORM C-108 BREITBURN OPERATING, LP  
BREITBURN OPERATION LP 1930 SWD NO. 12-4-G  
SECTION 12, TOWNSHIP 19 NORTH, RANGE 30 EAST, N.M.P.M.

**PROTEST TO DRILLING AND DEVELOPMENT OF INJECTION WELL**

COMES NOW, Protestant Junior Libby, owner and operator of Libby Cattle Company in Harding County, New Mexico.

1

Protestant owns and operates a ranch located approximately a mile and a half east of the proposed injection site. Protestant's headquarters are located on Ute Creek approximately 1.5 miles east of the location advertised for the injection site.

2

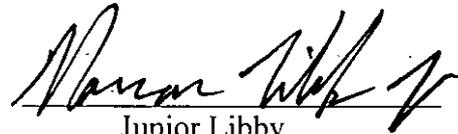
Protestant is in the business of ranching. The quality of water on protestant's ranch is of great concern to protestant as any impairment to that water will materially affect protestant's operations and means of making a living. Protestant has had experience in the past of water quality problems on the ranch caused by drilling activity in connection with development of CO2 resources in the Bravo Dome.

3

Breitburn Operating LP proposes to drill and operate an injection well which is likely to impair the quality of water available for protestant's household and cattle ranch. The natural flow of underground water is from the location of the proposed injection site to Ute Creek on protestant's ranch and land of others. The short term economic benefit to applicant in developing

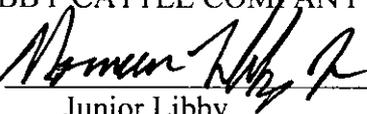
and using the injection well is not worth the likely irreparable harm to regional water resources.  
Applicant's petition to drill and operate an injection well in this case should be denied.

WHEREFORE, protestant respectfully prays the New Mexico Oil Conservation Division deny  
the application of Breitburn Operating LP in this case.



Junior Libby  
400 Libby Road  
Bueyeros, NM 88415  
575-673-2365  
jrllibby@plateautel.net

LIBBY CATTLE COMPANY

By:  President

Junior Libby  
400 Libby Road  
Bueyeros, NM 88415  
575-673-2365  
jrllibby@plateautel.net

2. Will the Salt Water toxic liquid poison the earth?

3. Will the Salt Water Disposal Well "never" leak and contaminate the earth?

4. Can an individual continue to raise cattle?

5. Will the value of life in Harding County become unlivable within years from today?

\* \*The Protection of our land (Deterioration Loss of value)

1. The Salt Water Disposal will surely deteriorate the value of the land toward the value because of the salt and chemicals raising to the earth.

2. We the individuals of Harding County must protect the little that we have.

\*\*The Protection of our Water Wells:

1. This will within time seep into the water and then there is no water in the area for the People of Harding county and the many animals (Cattle; Deer; Antelope and others) in the county.

There is also the proposal that Breitburn wants to dig a pit and put the disposal in the pit with a plastic cover. However, a plastic cover will also ware down and the disposal will surely go through the earth of Harding County.

Thank you for you time.

## Goetze, Phillip, EMNRD

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**From:** Loretta H <rettah1@gmail.com>  
**Sent:** Wednesday, November 18, 2015 5:35 PM  
**To:** Goetze, Phillip, EMNRD; Jones, William V, EMNRD; Dawson, Scott, EMNRD  
**Subject:** Breitburn Proposal Rejection

I will try one more time with a subject matter

On Wed, Nov 18, 2015 at 5:32 PM, Loretta H <[rettah1@gmail.com](mailto:rettah1@gmail.com)> wrote:

November 18, 2015

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](tel:505.476.3466) F: [505.476.3462](tel:505.476.3462)

[phillip.Eoetze@state.nm.us](mailto:phillip.Eoetze@state.nm.us)

Dear Mr. Goetze, P.G.

I am writing to you to request that the Harding County Legal Notices of Breitburn Operating LP be rejected.

August J. Hayoz Jr. (Loretta E. Hayoz Trustee) and myself Loretta E. Hayoz are owners of Royalties of Section 12, T 19N, R 30 of this piece of property. Breitburn has failed to notify me of any procedures on this property. I spoke with William Alexander and he stated that he sent paper work to my address in Albuquerque however, I informed Mr. Alexander that I never received any info on this proposal.

They will be going through surface and subsurface land ownership and they should follow the Oil and Gas lease that is already in place Filed October 17, 1978; 5250 pg 877, 878

According to the notification:

To the extent that this Easement is granted for non-commercial Salt Water disposal, the Grantee represents and warrants that (i) some or all of the Salt Water disposed of under this Easement is produced from oil and gas wells operated by the Grantee or in which the Grantee has an ownership interest, or the producer of the Salt Water has an ownership interest in the Easement Property; and (ii) the Grantee will not receive compensation for the disposal of Salt Water under this Easement for the purpose of generating a net profit from its operations under this Easement. Notwithstanding the foregoing, the Grantee may request that the Commissioner exempt some or all of its operations from the scope of that representation and warranty without reclassification of the Easement or payment of an increased annual fee or disposal fee, based on demonstrated need

Note no information has been discussed with me in regard to this issue.

I request that this proposal is "rejected" for the outcome of the living of the individuals of Harding County.

*Salt Water AND many different chemicals.*

**\*\*Value of Life in Harding County:**

1. Can an individual continue to live in Harding County after the fact of the Salt Water Disposal with chemicals seeping through the earth and raising to the top of the ground?
2. Will the Salt Water toxic liquid poison the earth?
3. Will the Salt Water Disposal Well "never" leak and contaminate the earth?
4. Can an individual continue to raise cattle?
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Thank you for you time.

Sincerely,

Loretta E. Hayoz

Electronic Original Signature per Email.

Cc: William Jones

Scott Dawson

--  
"In God We Trust"

**Goetze, Phillip, EMNRD**

---

**From:** Loretta H <rettah1@gmail.com>  
**Sent:** Wednesday, November 18, 2015 6:37 PM  
**To:** Goetze, Phillip, EMNRD; Jones, William V, EMNRD; Dawson, Scott, EMNRD  
**Subject:** Re: Breitburn Proposal Rejection

Mr Goetze

Please accept my apology however this issue also follows the special warranty deeds: 13166-930 filed 12-6-93 and 13167-931 filed 12-6-93

This saltwater disposal is all affiliated with the oil and lease as stated in all three documents. This is an elder documentation of legal language as affiliated within each process.

Loretta E Hayoz  
Electronically submitted as a true document

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November 18, 2015

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.Eoetze@state.nm.us

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ABOVE THIS LINE FOR DIVISION USE ONLY

*Need approval to Publication*

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



Case 15431  
 RECEIVED OOD  
 2015 NOV -3 P 2:56

**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 *- SWD-1567-A*  
*- Breithorn operating LP 370080*
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM *well*  
*- Breithorn operating LP 1930540*
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR *#1246*  
*30-02-20692*
- [D] Other: Specify \_\_\_\_\_ *PO 11*
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply
- [A]  Working, Royalty or Overriding Royalty Interest Owners *- SWD, San Andres 96121*
- [B]  Offset Operators, Leaseholders or Surface Owner *- SWD, Glorieta 96108*
- [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 11/06/2015)
- [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 \_\_\_\_\_ Agent \_\_\_\_\_ 10-29-2015  
 Print or Type Name Signature Title Date  
 shelly\_doescher@yahoo.com  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No
- II. OPERATOR: Breitburn Operating LP  
ADDRESS: 1401 McKinney Street Houston, Texas 77010  
CONTACT PARTY: Shelly Doescher, Agent 505-320-5682, Jeanie McMillan, Regulatory Manager 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 \_\_\_\_\_  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: November 29, 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: \_\_\_\_\_
- 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:

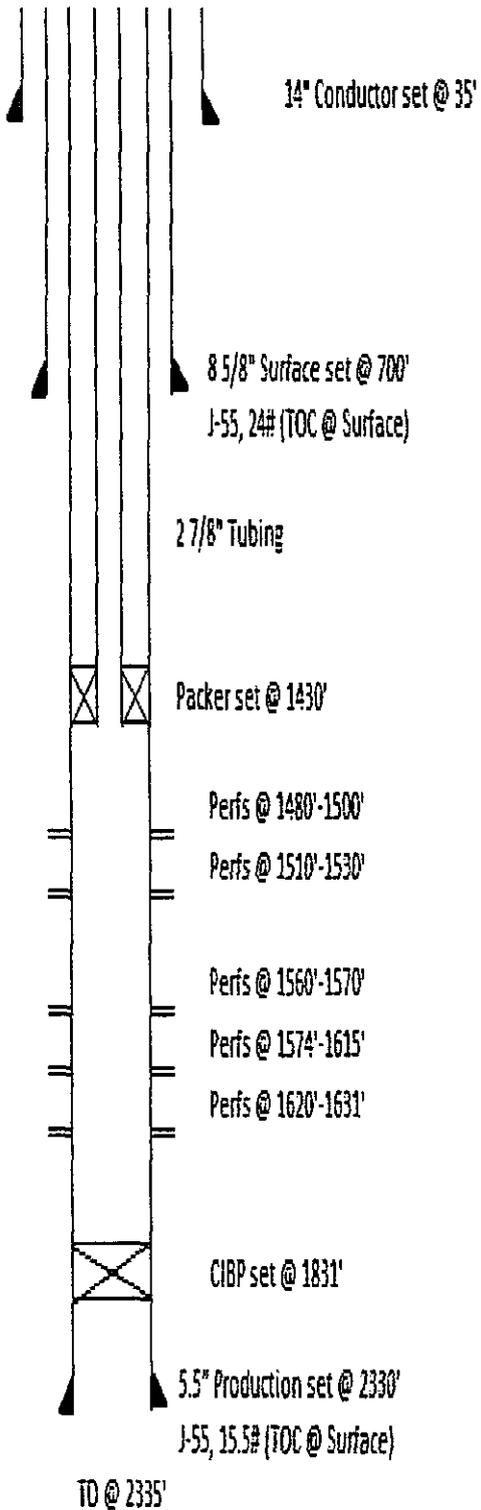
- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates 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.**

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**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.

## Proposed Wellbore Schematic SWD 12-4-G



Perforation Interval	SPF	Total Perforation Footage	Total Holes	
1480'-1500'	4	20	80	Dolomite
1510'-1530'	4	20	80	Dolomite
1560'-1570'	4	10	40	Sandstone
1574'-1615'	4	41	164	Sandstone
1620'-1631'	4	11	44	Sandstone
<b>TOTAL</b>		<b>102</b>	<b>408</b>	



**SWD 12-4-G  
Completion and Acid Procedure**

<b>ENGR:</b>	Nick Latulip	<b>Field Contact</b>	Buck Pollister
<b>OFFICE:</b>	(580) 545-4515	<b>OFFICE:</b>	
<b>CELL:</b>	(580) 520-1218	<b>CELL:</b>	(575) 741-0153

<b>Estimated Gross Cost</b>	\$20,000 (*rig and acid job only*)	<b>Estimated Net Cost</b>	
<b>AFE #</b>		<b>TASK:*</b>	Acidize Disposal Zone

<b>WELL TYPE:</b>	SWD	<b>Estimated BHP</b>	
<b>Comments:</b>		<b>Estimated BHT</b>	

<b>WELL INFORMATION:</b>	<i>Measured Depths</i>
<b>Spud :</b>	10/10/2015
<b>TD:</b>	2335'
<b>PBDT:</b>	1831'
<b>Reference:</b>	
<b>Ground Level:</b>	
<b>Packer Depth Approval</b>	1330'
<b>Top Injection Zone</b>	1480'-1530' (San Andres)
<b>Bottom Injection Zone</b>	1560'-1631' (Glorieta)
<b>Anticipated Maximum Wellhead Pressure</b>	3500 psi

<b>Local Area Needs (CPROX, Airport, etc)*</b>	No		
<b>Reason For Repair or Objective</b>	Stimulation of the San Andres/Glorieta to prepare for injection		
<b>Current Production</b>	New Disposal Well	<b>Estimated Production</b>	N/A
<b>Estimated Payout</b>		<b>Oil Price</b>	N/A

SIZE (IN)	WT (LB/FT)	GRADE	DEPTH (FT)	CMT (SX)	TOC (FT)	TECHNIQUE (TS, CBL, CIRCULATED, CALCULATED)
14			35'			Conductor
8 5/8	24#	J-55	700'	390	Surf	Circulated
5 1/2	15.5#	J-55	2330'	240	Surf	Circulated

<b>Type of completion</b>	Cased hole completion
<b>Perfs</b>	1480'-1500', 1510'-1530', 1560'-1570', 1574'-1615', 1620'-1631', CIBP @ 1831'

<b>PERTINENT DATA</b>	Workstring is 2 7/8" tubing.
-----------------------	------------------------------

**SWD 12-4-G Procedure**

1. Hold safety meeting.
2. **MIRU Renegade Wireline Services**, run bond log
3. Perforate 1560'-1570', 1574'-1615', 1620'-1631'.
4. PU and RIH with 5 1/2" CIBP and set at 1831' on wireline (state requested because of the amount of rat hole.) **RD Renegade Wireline Services**.
5. **MIRU Reliant** rig
6. PU 5 1/2" treating packer, TIH and set at 1500' with 2 7/8" workstring
7. **MIRU Allied Oil and Gas Services** and pressure test lines.
8. Pump acid job as follows:

	Stage Type	Volume (gal.)	Type of fluid
1	Pre-Flush	420	Produced Water
2	Acid	1/2 transport volume (~1500 gals)	15% HCl
3	Flush	4200	Produced Water

9. **RD Allied Oil and Gas Services**.
10. TOOH and LD 5 1/2" treating packer and 2 7/8" workstring.
11. **RU Renegade Wireline Services**, perforate 1480'-1510', 1510'-1530'. **RD Renegade Wireline Services**
12. PU 5 1/2" treating packer and 5 1/2" RBP, TIH and set RBP (bottom) @ 1550' with 2 7/8" workstring. Set treating packer @ 1430'
13. Pump acid job as follows:

	Stage Type	Volume (gal.)	Type of fluid
1	Pre-Flush	420	Produced Water
2	Acid	1/2 transport volume (~1500 gals)	15% HCl
3	Flush	4200	Produced Water

14. **RDMO Allied Oil and Gas Services**
15. TOOH and LD 5 1/2" treating packer, 5 1/2" RBP and 2 7/8" workstring
16. **RU Renegade Wireline Services**, and PU 5 1/2" injection packer and wireline set at 1430'. **RDMO Renegade Wireline Services**.
17. PU and TIH with 2 7/8" fiberglass injection tubing and latch onto injection packer.
18. **RDMO Reliant** rig

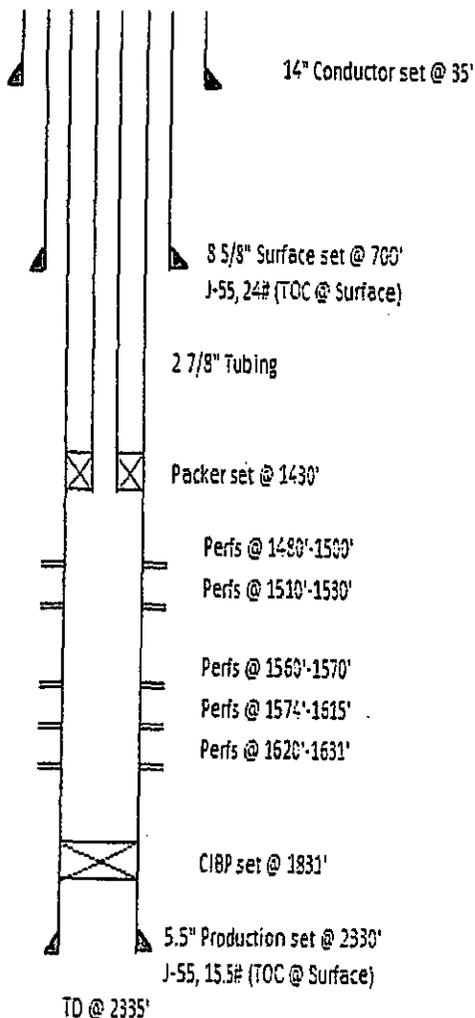
INJECTION WELL DATA SHEET

OPERATOR: Breitburn Operating LP

WELL NAME & NUMBER: Breitburn Operating LP 1930 SWD No. 12-4-G

WELL LOCATION: 2265' FNL and 1493' FEL      G      12      19N      30E  
 FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"      Casing Size: 8 5/8", 24#, J-55  
 Cemented with: 390 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: Surface      Method Determined: Circulate

Intermediate Casing N/A

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_  
 Cemented with: \_\_\_\_\_ sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Production Casing

Hole Size: 7 7/8"      Casing Size: 5 1/2", 15.5#, J-55  
 Cemented with: 240 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: Surface      Method Determined: CBL

Total Depth: 2335'

Injection Interval

1480 feet to 1631 feet (perforated)  
 (Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 2-7/8" Lining Material: IPC

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

Packer Setting Depth: 1430 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: San Andres, Glorieta

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. \_\_\_\_\_

\_\_\_\_\_

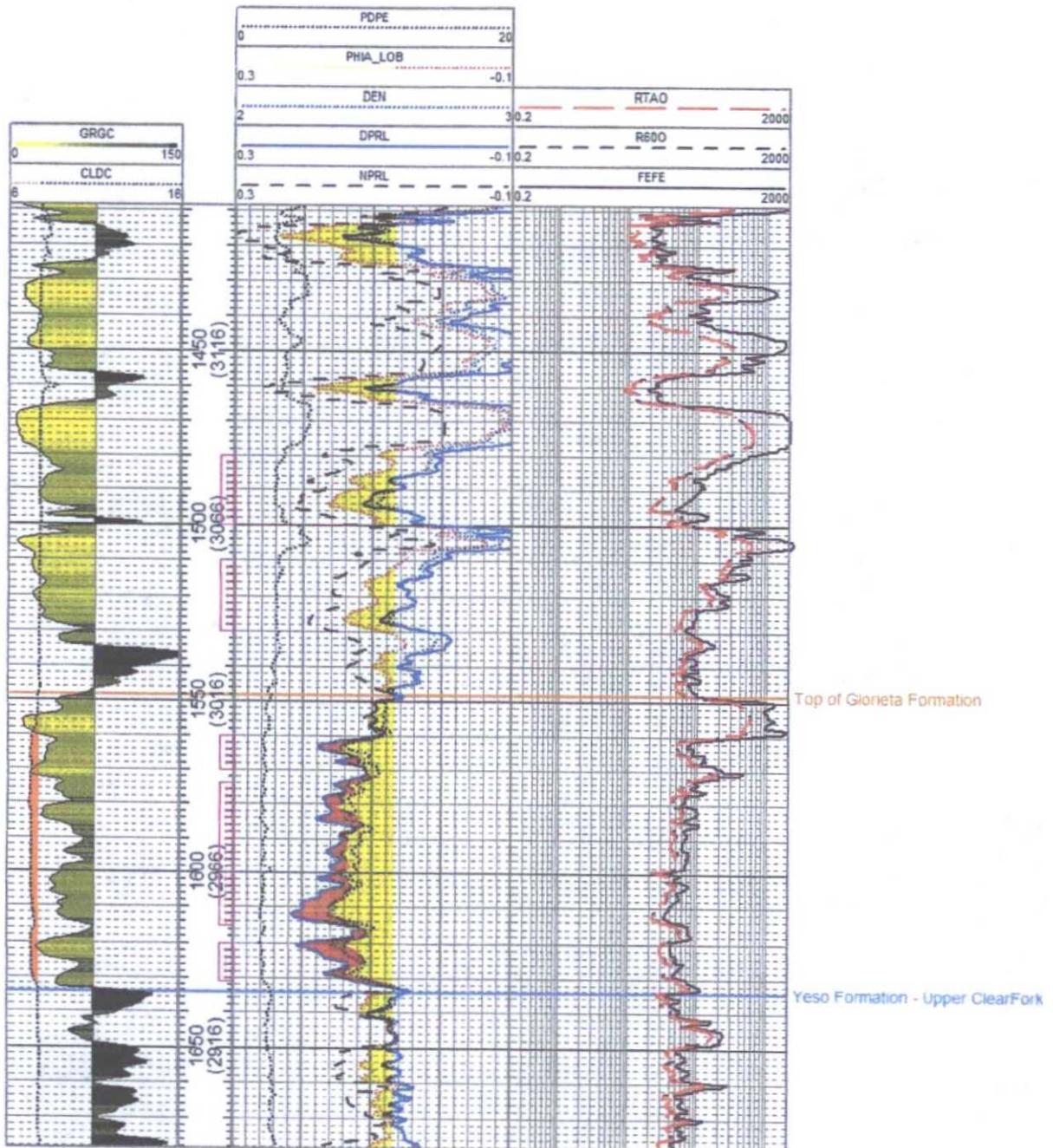
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:  
No oil or gas zones above the San Andres formation. The Glorieta formation top is below the San Andres formation at 1560 feet.

\_\_\_\_\_

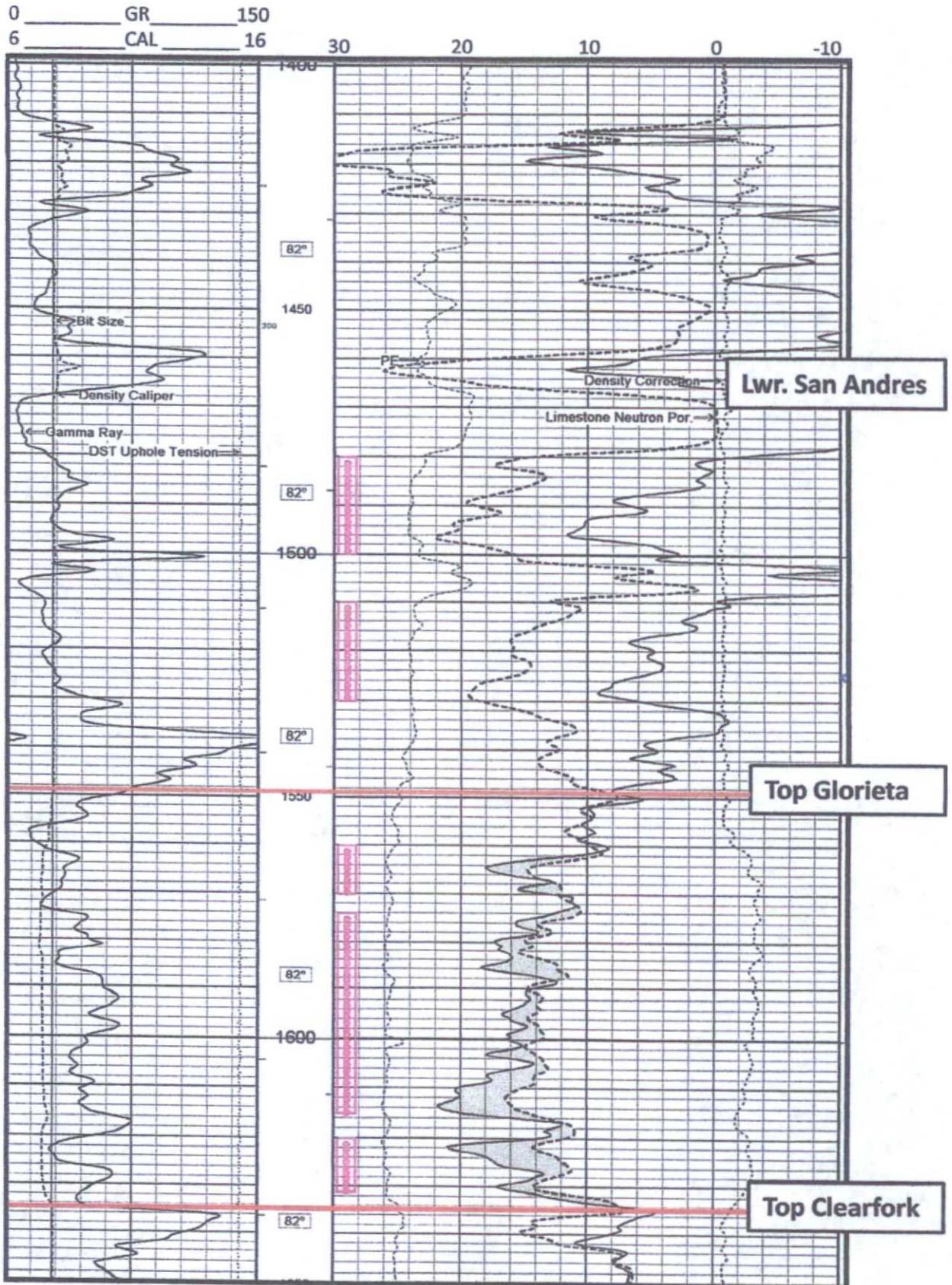
# Libby Ranch 1930

## 12-4-G

30212069200000

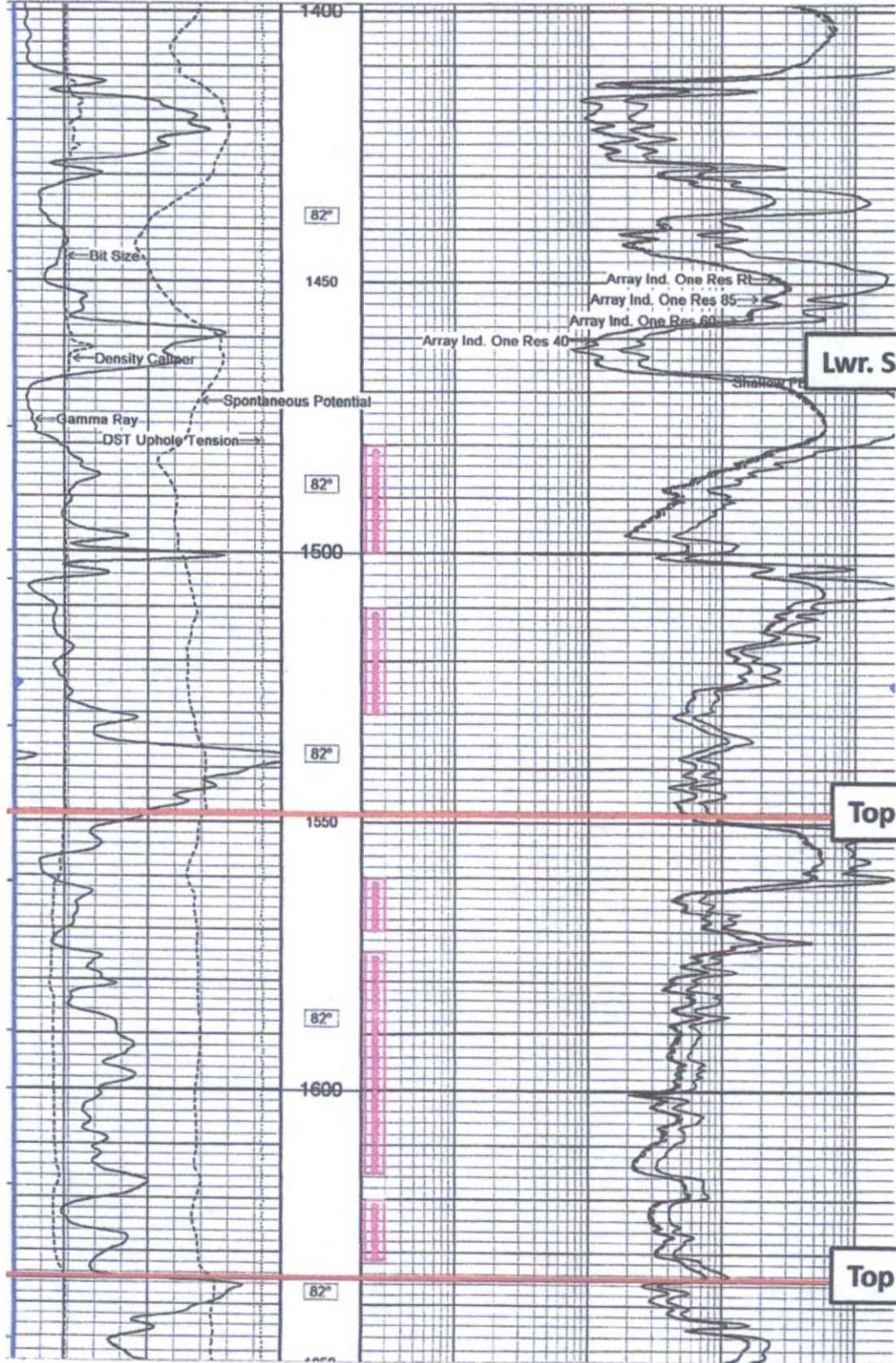


Libby Ranch 1930 SWD 12-4-G  
Density / Neutron Log



Libby Ranch 1930 SWD 12-4-G  
Array Induction Log

0 GR 150  
6 CAL 16 30 20 10 0 -10



Lwr. San Andres

Top Glorieta

Top Clearfork

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-021-20692
5. Indicate Type of Lease STATE [ ] FEE [x]
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Breitburn Operating LP 1930 SWD
8. Well Number 12-4-G
9. OGRID Number 370080
10. Pool name or Wildcat SWD; San Andres, Glorietta
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4556' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [ ] Gas Well [x] Other CO2
2. Name of Operator Breitburn Operating LP
3. Address of Operator 1401 McKinney Houston, Texas 77010
4. Well Location Unit Letter G: 2265 feet from the North line and 1493 feet from the East line
Section 12 Township 19N Range 30E NMPM Harding County

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [ ]
TEMPORARILY ABANDON [ ] CHANGE PLANS [x]
PULL OR ALTER CASING [ ] MULTIPLE COMPL [ ]
DOWNHOLE COMMINGLE [ ]
CLOSED-LOOP SYSTEM [ ]
OTHER: [ ]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [ ] ALTERING CASING [ ]
COMMENCE DRILLING OPNS. [x] P AND A [ ]
CASING/CEMENT JOB [x]
OTHER: [ ]

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.
10/09/2015: Skid rig 10' west of original hole; SWD 12-3-G API # 30-021-20682. Air drill 35' of 17.5" hole and set 13 3/8" casing.
10/10/2015: WOC. Cut off conductor. MIRU. Spud well at 11:30 am. Drill 12 1/4" surface hole 35' - 553'.
10/11/2015: Drill 553' - 712' TD. Run 8 5/8", 24#, J-55 casing to 700'. Cement surface casing as follows; Lead cement 190 sx, tail cement 200 sx. Started displace, pump 2 bbl, pressure up, cement locked up. (Total cement to surface 10 bbls.)
10/12/2015: WOC. N/U BOP Drill out cement 30' - 712'. Circ hole clean and test casing to 850 psi for 30 minutes. Test passed.
10/13/2015: TIH to 712'. Circ and mix mud in system. Wash and ream production hole 712'- 982'. Drill 7 7/8" production hole 982'- 1307'.
10/14/2015: Drill production hole 1307'- 2136'.
10/15/2015: Drill production hole 2136'- 2335' TD. Trip out for logs. Log well. Run 5 1/2", 15.5#, J-55 casing.
10/16/2015: Finish running casing to 2330'. Cement production casing as follows; 20 bbl KCL 2% ahead, lead cement 115 sx 87 bbl, tail cement 125 sx 126 bbl. Displace w/55 bbl fresh water. 15 bbl cement return to surface. Final psi 550. Land plug w/1100 psi. Rig released @ 1:30 pm.

Spud Date: 10/10/2015 Rig Release Date: 10/16/2015

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

SIGNATURE Shelly Doescher TITLE Agent DATE 10/19/2015
Type or print name Shelly Doescher E-mail address: shelly\_doescher@yahoo.com PHONE: 505-320-5682
For State Use Only

APPROVED BY: TITLE DATE
Conditions of Approval (if any):

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-021-20692	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name SWD; San Andres, Glorietta
<sup>4</sup> Property Code	<sup>5</sup> Property Name Breitburn Operating LP 1930 SWD	<sup>6</sup> Well Number 12-4-G
<sup>7</sup> OGRID No. 370080	<sup>8</sup> Operator Name Breitburn Operating LP	<sup>9</sup> Elevation 4556'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	12	19N	30E		2265'	North	1493	East	Harding

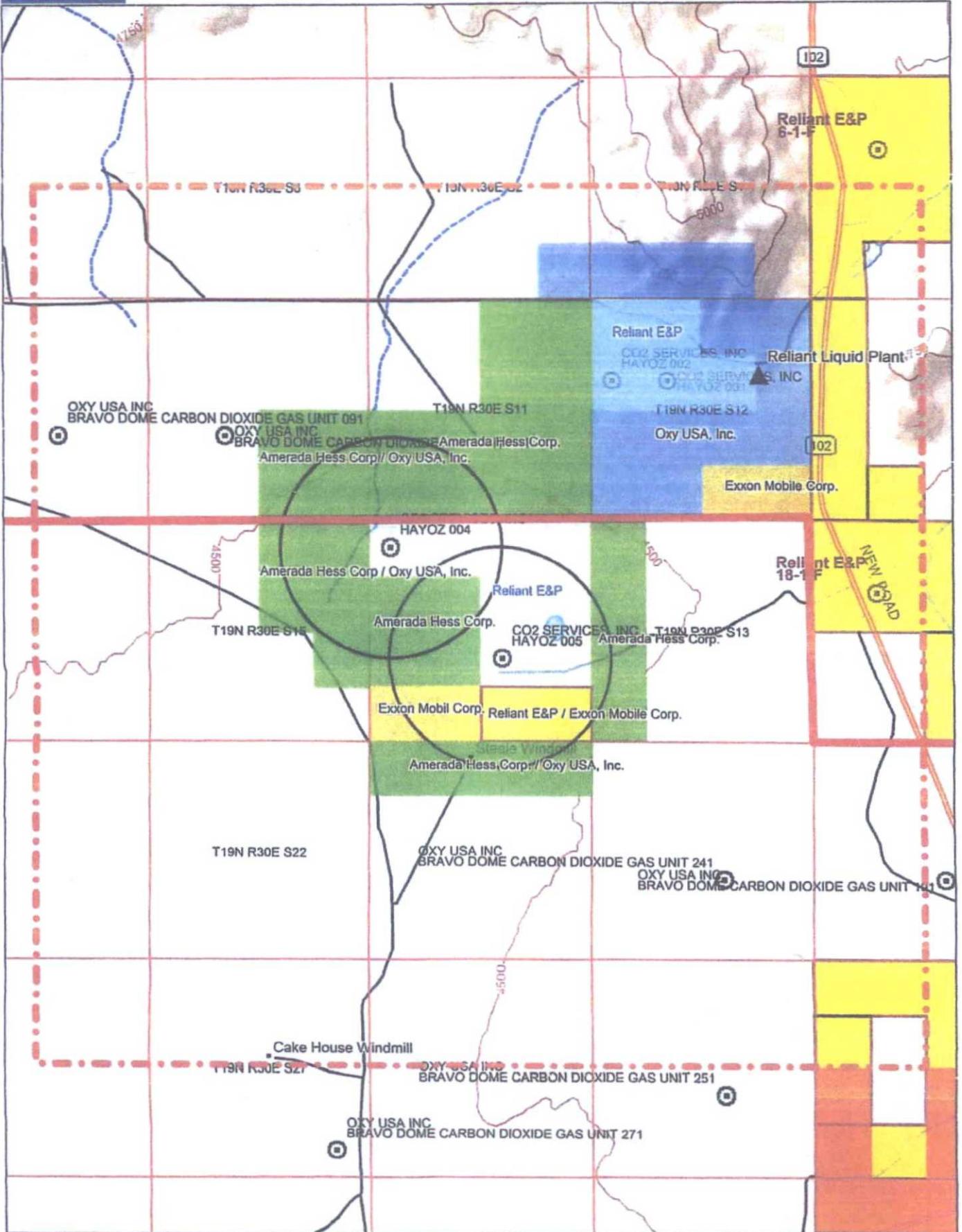
<sup>11</sup> Bottom Hole Location If Different From Surface

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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Shelly Doescher</i> 10-30-2015 Signature Date</p> <p>Shelly Doescher Printed Name</p> <p>shelly_doescher@yahoo.com E-mail Address</p>
	<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>5-7-2015 Date of Survey</p> <p><i>Michael L. Stanford</i> Signature and Seal of Professional Surveyor</p>
	<p>10324 Certificate Number</p>



Data use subject to license.

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www.delorme.com



Scale 1 : 37,500



1" = 3,125.0 ft Data Zoom 12-0

State of N.M.

# 1

02; T19N.R30E

Michell, T.E. & Son Inc.

01; T19N.R30E

Michell, T.E. & Son Inc.

State of N.M.

TLC Family Land Company, Inc.

08; T19N.R31E

State of N.M.

Hayoz, William J. etals

Thelway Holdings LTD

Hayoz #2

Hayoz #1

PLANT SITE

1/2 mile radius

12; T19N R30E

07; T19N.R31E

Michell, T.E. & Son Inc.  
11; T19N.R30E

TLC Family Land Company, Inc.

State of N.M.

TLC Family Land Company, Inc.

BUENAVIS HWY

# Yes

Yesterdays Valley Ranch, Inc.

18; T19N.R31E

TLC Family Land Company, Inc.

# Hayoz

Hayoz, William J. etals

Hayoz, William J. etals  
14; T19N.R30E

13; T19N.R30E

TLC Family Land Company, Inc.

Michell, T.E. & Son Inc.

State of N.M.

**Breitburn Operating LP 1930 SWD No. 12-4-G Injection Well**  
**(API No. 30-021-20692)**  
**G, Section 12, T19N, R30E N.M.P.M.**

**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 and lower San Andres formations are dry so there should be no compatibility issues in the injection zones.
5. There is no indication from the State Engineers website that there are any water wells drilled to the Glorieta or lower San Andres formations.

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. The lower San Andres is of Permian Age and is composed of dolomitic, limey carbonates with a mixture of fine grained mixed clastics. 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 and lower San Andres with a yet to be determined amount of 15% HCl acid and ball sealers.
- X. Well logs are attached.
- XI. Analysis of the Tubbs Formation water is attached.
- XII. The relatively impermeable portions of the upper San Andres Limestone overlay the planned injection intervals. 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.)
- XIII. 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.

## Well Tabulation Sheet

Wells within One-Half Mile of the Breitburn Operating LP 1930 SWD No. 12-4-G

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

P.O. BOX 98  
MIDLAND, TX. 79702  
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA  
MIDLAND, TEXAS 79701  
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mike Raines, Vance Vanderburg, and Scott Vanderburg  
10817 W. CR 60, Midland, TX 79707

LABORATORY NO. 1013-305  
SAMPLE RECEIVED 10-15-13  
RESULTS REPORTED 10-24-13

COMPANY Whiting / Reliant Holdings LEASE Libby Minerals #16-2-N  
FIELD OR POOL Bravo Dome  
SECTION        BLOCK        SURVEY        COUNTY Harding STATE Texas

SOURCE OF SAMPLE AND DATE TAKEN:  
NO. 1 Submitted water sample - taken 9-4-13 and labeled as "Produced Fluid".  
NO. 2         
NO. 3         
NO. 4       

REMARKS: Tubb (below Dean)

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0330			
pH When Sampled				
pH When Received	6.20			
Bicarbonate as HCO <sub>3</sub>	1,220			
Supersaturation as CaCO <sub>3</sub>				
Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO <sub>3</sub>	12,200			
Calcium as Ca	2,880			
Magnesium as Mg	1,215			
Sodium and/or Potassium				
Sulfate as SO <sub>4</sub>	1,223			
Chloride as Cl	28,400			
Iron as Fe	63			
Barium as Ba	0			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	48,792			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Resistivity, ohmcm at 77° F.	0.000			
Suspended Oil				
Filterable Solids as mg/l				
Volume Filtered, ml				
Sodium	19,336			
Potassium	200			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Form No. 3

By Greg Ogden  
Greg Ogden, B.S.



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

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

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

**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-Code	basin	County	Q	Q	Q	4 Sec	Tws	Rng	X	Y	Distance	Depth		Water Column
													Well	Water	
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):**

Eastings (X): 616766

Northing (Y): 3972819

Radius: 5000

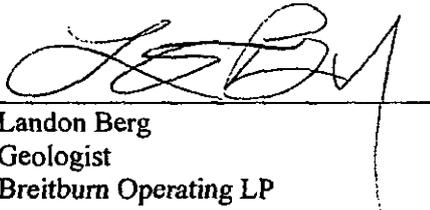
\*UTM location was derived from PLSS - see Help

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.

**C-108 Application for Authorization to Inject  
Breitburn Operating LP 1930 SWD No. 12-4-G  
Unit Letter G, 2265' FNL & 1493' FEL  
Sec. 12, T19N, R37E  
Harding County New Mexico  
API No. 30-021-20692**

**GEOLOGICAL STATEMENT**

**Available engineering and geological data have been examined and no evidence of open faults or hydrologic connections between the disposal zones and any underground sources of drinking water have been found.**



Landon Berg  
Geologist  
Breitburn Operating LP

October 30, 2015

Form C-108  
Breitburn Operating LP  
Breitburn Operating LP 1930 SWD No. 12-4-G  
Section 12, T-19 North, R-30 East, NMPM  
Harding County, New Mexico

Scheduled for publication in the Harding County Leader on Wed., November 4, 2015. The Affidavit of Publication will be forwarded to the Division upon receipt by Breitburn Operation LP.

**Breitburn Operating, LP, 1401 McKinney Street, Suite 2400, Houston, Texas 77010 is filing a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division ("Division") seeking administrative approval to utilize its proposed Breitburn Operating LP 1930 SWD #12-4-G (API No. 30-021-20692) to be drilled 2265' from the North line and 1493' East line (UL G) of Section 12, Township 19 North, Range 30 East, NMPM, Harding County, New Mexico (16.25 miles East Northeast of Mosquero) and complete the well as a produced water disposal well in the San Andres and Glorieta formations. Injection is to occur through the perforated interval from approximately 1480 feet to 1530 feet in the San Andres formation and from approximately 1560 feet to 1631 feet in the Glorieta formation.**

**Produced water from the Tubb formation originating from Breitburn Operating LP operated wells in this area will be injected into the Breitburn Operating LP 1930 SWD No. 12-4-G well at average and maximum rate of 350 and 700 barrels of water per day respectfully. The average and maximum injection pressures will be determined from a step rate test run after the well is drilled and stimulated.**

**Interested parties must file objection with the New Mexico Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.**

**Contact Information for Breitburn Operating is: Jeanie McMillan, Regulatory Manager, 1401 McKinney, Suite 2400, Houston, TX 77010, Office Phone (713) 634-4696.**



October 29, 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  
Breitburn Operating LP 1930 SWD #12-4-G  
API No. – 30-021-20692  
2265' North & 1493' 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 Breitburn Operating LP 1930 SWD #12-4-G. 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 Breitburn Operating LP 1930 SWD #12-4-G and utilize the well as a produced water disposal well, injection to occur into the San Andres formation through the perforated interval from approximately 1480 feet to 1530 feet, and the Glorieta formation through the perforated interval from approximately 1560 feet to 1631 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 black ink that reads 'Jeanie McMillan'. The signature is written in a cursive style.

Jeanie McMillan  
Regulatory Manager

jm  
Encl.

**Breitburn Operating LP 1930 SWD No. 12-4-G  
(API No. 30-021-20692  
G, Section 12, T19N, R30E NMPM  
C-108**

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

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

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

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

**AFFIDAVIT OF PUBLICATION**

**State of New Mexico  
County of Union**

**SS:**

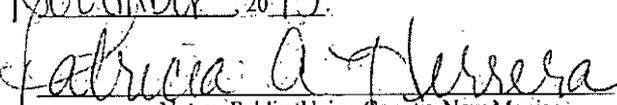
The undersigned, being first duly sworn according to law, on her oath deposes and says that she is the office manager of the newspaper named the *Union County Leader* and that she has personal knowledge of the facts stated herein: That the said *Union County Leader* is a weekly newspaper of general paid circulation in Union and Harding Counties published in the County of Union and State of New Mexico; entered under the second class privilege at the U.S. Post Office at Clayton, Union County, New Mexico and having been uninterruptedly and continuously so printed and published during a period of more than six months next to the date of the printing of the first publication concerning which this affidavit is made and a copy of which is hereto attached; that the said publication, a printed copy of which is hereto attached and made part of this affidavit, was published in said newspaper once each week for one successive weeks; and that payment for said publication has been made or assessed as part of the court costs to which it relates; said publications having been made on the following dates, to wit:

1<sup>st</sup> publication: the 4 day of November, 2015  
 2<sup>nd</sup> publication: the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

3<sup>rd</sup> publication: the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 4<sup>th</sup> publication: the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

**Union County Leader**  
  
 Terry Martin, CEO/Publisher/Editor

**Publisher's Bill**  
110 lines, 1x times \$ 69.30  
 \_\_\_\_\_ lines, display \_\_\_\_\_ times \$ \_\_\_\_\_  
 Tax \$ 5.46  
 Total \$ 74.76

Subscribed and sworn to before me this 12 day of November, 2015.  
  
 Fabricia A Herrera  
 Notary Public, Union County, New Mexico  
 My commission expires 11-5-2018

Received payment:  
 \_\_\_\_\_  
 \_\_\_\_\_

Form C-108 Form C-108 (Appli-perforated interval run after the well is  
 Breitburn Operat- tion for Authoriza- from approximately drilled and stimulat-  
 ing LP tion to Inject) with 1480 feet to 1530 feet ed.  
 Breitburn Operat- the Oil Conservation in the San Andres  
 ing LP 1930 SWD Division ("Division") formation and from interested parties.  
 No. 12-4-G seeking administra- approximately 1560 must file objection  
 Section 12, T-19 tive approval to uti- feet to 1631 feet in with the New Mexico  
 North, R-30' East, lize its proposed the Glorieta for Oil Conservation Di-  
 NMPM Breitburn Operating mation. vision, 1220 S. St.  
 Harding County, LP 1930 SWD #12-4- Francis Drive, Santa  
 New Mexico G (API No. 30-021- Produced water from Fe, New Mexico  
 20692) to be drilled the Tubb formation 87505, within 15  
 Scheduled for publi- 2265' from the North originating from days of the date of  
 cation in the Harding line and 1493' East Breitburn Operating this publication.  
 County Leader on line (UL-G) of Section LP operated wells in  
 Wed., November 4, 12, Township 19 this area will be in- Contact Information  
 2015. The Affidavit North, Range 30 jected into the Breit- for Breitburn Operat-  
 of-Publication will be East, NMPM, Har- burn Operating LP ing is: Jeanie McMil-  
 forwarded to the Di- ding County, New 1930 SWD No. 12-4- lan, Regulatory Man-  
 vision upon receipt Mexico (16.25 miles G well at average ager, 1401 McKin-  
 by Breitburn Opera- East Northeast of and maximum rate of ney, Suite 2400,  
 tion LP Mosquero) and com- 350 and 700 barrels Houston, TX 77010,  
 plete the well as a of water per day re- Office Phone (713)  
 Breitburn Operating, produced water dis- spectfully. The aver- 634-4696.  
 LP, 1401 McKinney posal well in the Glo- age and maximum 11-4  
 Street, Suite 2400, rieta Bravo Dome injection pressures  
 Houston, Texas Field. Injection is to will be determined  
 77010 is filing a occur through the from a step rate test

**AFFIDAVIT OF PUBLICATION**

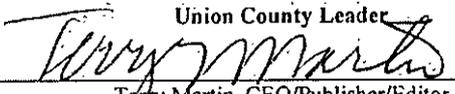
**State of New Mexico**  
**County of Union**

SS.

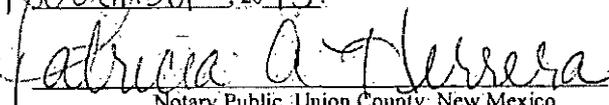
The undersigned, being first duly sworn according to law, on her oath deposes and says that she is the office manager of the newspaper named the *Union County Leader* and that she has personal knowledge of the facts stated herein: That the said *Union County Leader* is a weekly newspaper of general paid circulation in Union and Harding Counties published in the County of Union and State of New Mexico; entered under the second class privilege at the U.S. Post Office at Clayton, Union County, New Mexico and having been uninterruptedly and continuously so printed and published during a period of more than six months next to the date of the printing of the first publication concerning which this affidavit is made and a copy of which is hereto attached; that the said publication, a printed copy of which is hereto attached and made part of this affidavit, was published in said newspaper once each week for one successive weeks, and that payment for said publication has been made or assessed as part of the court costs to which it relates; said publications having been made on the following dates, to wit:

1<sup>st</sup> publication: the 4 day of November, 2015  
 2<sup>nd</sup> publication: the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

3<sup>rd</sup> publication: the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
 4<sup>th</sup> publication: the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

**Union County Leader**  
  
 Terry Martin, CEO/Publisher/Editor

**Publisher's Bill**  
110 lines, 1x times \$ 69.30  
 \_\_\_\_\_ lines, display \_\_\_\_\_ times \$ \_\_\_\_\_  
 Tax \$ 5.46  
 Total \$ 74.76

Subscribed and sworn to before me this 12 day of November, 2015.  
  
 Notary Public, Union County, New Mexico  
 My commission expires 11-5-2018

Received payment:  
 \_\_\_\_\_  
 \_\_\_\_\_

Form C-108 (Applied for authorization to perforate interval run after the well is completed) with 1480 feet to 1530 feet. The Oil Conservation in the San Andres formation and from interested parties seeking administrative approval to utilize approximately 1560 feet to 1631 feet in with the New Mexico East size its proposed the Glorieta for Oil Conservation Division. Breithurn Operating Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Produced water from the Tubb formation within 16 miles of the North originating from days of the date of this publication. (ULG) of Section LP operated wells in this area will be in contact. Information for Breithurn Operating LP is: Jeanie McMillan, Regulatory Manager, 1401 McKinney Street, Suite 2400, Houston, TX 77010. Office Phone (713) 634-4696. The average and maximum injection pressures will be determined from a step-rate test.