

DATE IN 2/8/16	SUSPENSE	ENGINEER WVS	LOGGED IN 2/12/16	TYPE IPI	PHONE 1604362210
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ABOVE THIS LINE FOR DIVISION USE ONLY

Wait on SWD APPROVAL in Case 15431

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 (Step Rate Test)
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

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

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

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

Shelly Doescher		Agent	02/08/2016
Print or Type Name	Signature	Title	Date

e-mail Address: shelly_doescher@yahoo.com

Submit 1 Copy To Appropriate District Office
 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

Form C-103
 Revised July 18, 2013

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

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.)		WELL API NO. 30-021-20692
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other CO2 <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Breitburn Operating LP		6. State Oil & Gas Lease No.
3. Address of Operator 1401 McKinney Houston, Texas 77010		7. Lease Name or Unit Agreement Name Breitburn Operating LP 1930 SWD
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		8. Well Number 12-4-G
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4556' GR		9. OGRID Number 370080
		10. Pool name or Wildcat SWD; San Andres, Glorietta

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: Step Rate Test	<input checked="" type="checkbox"/>

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.

Breitburn Operating LP performed a step rate test on November 11, 2015.

Maximum charted step rate pressure reached was 821 psi @ 2.47 BPM. Frac pressure was not reached. (See attached procedure, graphs and data). An approximate pressure of 900 psi was reached at end of injection. Injection was halted so as not to exceed maximum tubing pressure (fiberglass tubing).

Breitburn Operating LP respectfully requests approval of 800 psi maximum injection surface pressure for this disposal well.

Spud Date: Rig Release Date:

*TOP PUMP
1480
713 psi
0.482 psi/ft*

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 02/08/2016

Type or print name Shelly Doescher E-mail address: shelly_doescher@yahoo.com PHONE: 505-320-5682
 For State Use Only

APPROVED BY: [Signature] TITLE DIST IV DATE 2/9/15
 Conditions of Approval (if any):

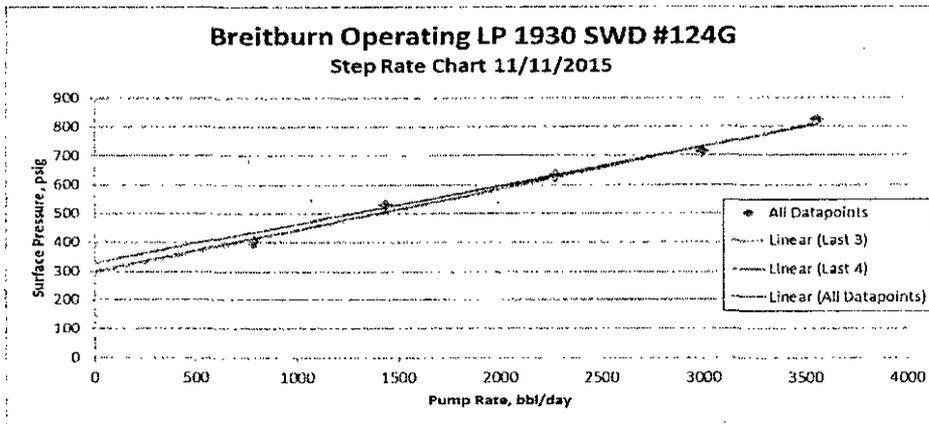
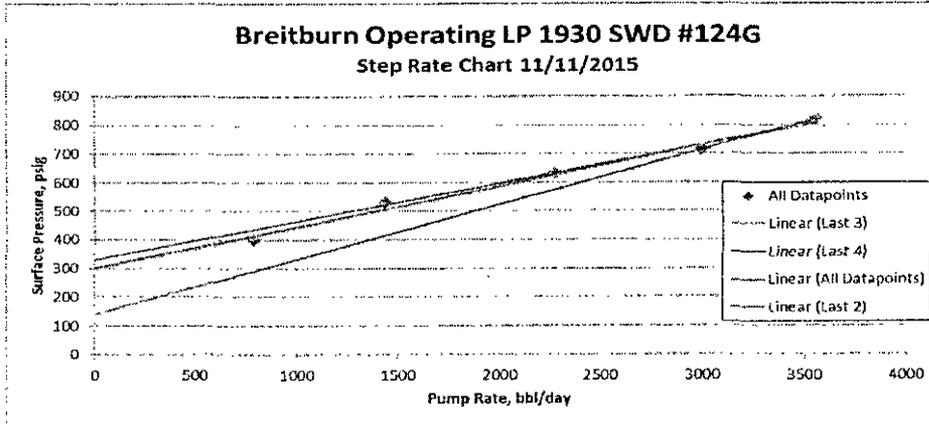


Cement Job Summary

Job Number: LIK1511111339		Job Purpose: 00 Acid		Date: 11/11/2015		
Customer: BREITBURN ENERGY		Number: 0		API/UWI:		
Well Name: LIBBY MINERALS		City: BUEYEROS		State: NM		
County: HARDING		Phone:		Rig Phone: 0		
Cust. Rep:		Distance: 75 miles (one way)		Supervisor: KIRBY HARPER		
DATE	TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
		CASING	ANNULUS	VOLUME	RATE (BPM)	
11/11/2015	0800					ARRIVE ON LOCATION
	1030					SAFETY MEETING
	1135	600		10	3	START PUMPING WATER
	1143	750		24	3	START PUMPING ACID
	1148	800		10	2.7	START FLUSH
	1152	500		13	.5	DECREASE RATE
	1208	600		20	1.5	INCREASE RATE
	1224	700		30	2	INCREASE RATE
	1239	800		40	2.5	INCREASE RATE
	1307	900		20	.8	WELL PRESSURED UP DECREASE RATE
	1325	900			.8	SHUT DOWN
	1325	650				ISIP
	13230	220				5 MIN
	1335	50				10 MIN
	1339	VAC				14 MIN

Taking a look at the charts below, you can see that the maximum surface pressure we reached was 821 psi. Also to be noted, is that there appears to be no breakovers at the different pressure/rates. This is because we feel we did not reach frac pressure during this step rate test. This thought is supported by offset well data, which didnt show a breakover until approximately 1100 psi surface pressure was achieved. Because 821 psi surface pressure was achieved with no sign of a breakover, we would like to increase our surface injection pressure to 800 psi. This should keep us well below frac pressure, and allow us to dispose at a rate that will keep up with the field water production. Also keep in mind that our pump is rated for approximately 1100 psi, and the tubing in the well has a similar burst pressure, so reaching frac pressure with our current equipment may not be possible anyways.

Pump Rate, BPM	Pump Rate, BPD	Surf Pressure, psi	Duration, min
0.55	792	400	16.51
1	1440	530	15.24
1.58	2275.2	632	14.605
2.08	2995.2	713	15.24
2.47	3556.8	821	12.7



Date: 11/11/2015

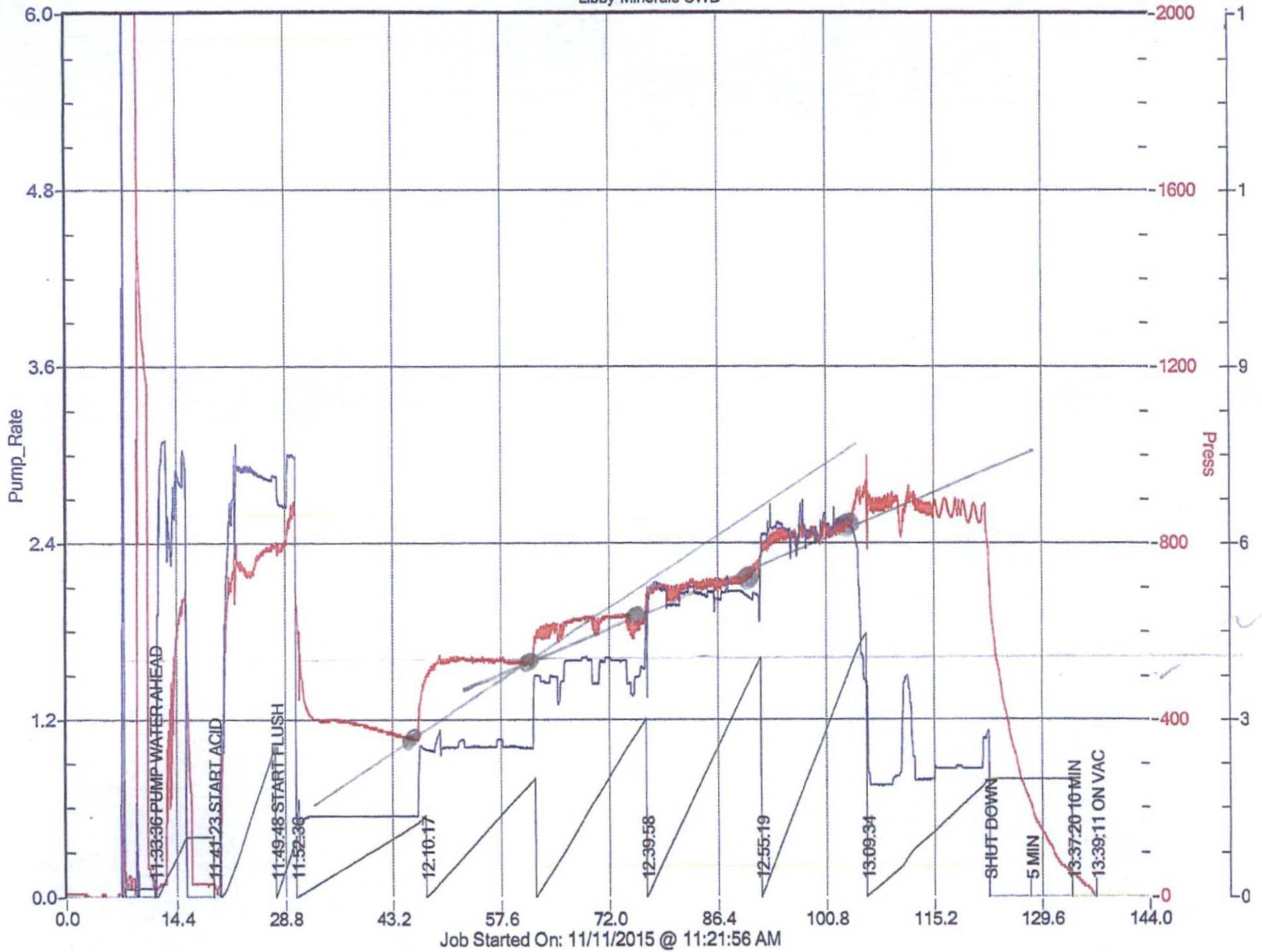
Well: Breitburn Operating LP 1930 SWD No. 12-4-G

Operation: bull head small volume of acid to clean up perforations, then perform step rate test.

1. Hold safety meeting
2. MIRU Allied Oil and Gas Services, and pressure test lines.
3. Pump 10 bbl pre-flush (produced water)
4. Bull head from surface 1000 gal 15% HCl acid, flush with 10 bbl produced water.
5. Shut down, bleed off pressure.
6. Begin step rate pump in test.
7. Start first step using produced water, @ .5 bpm, pressure ~500 psi
8. Start second step using produced water, @ 1 bpm, pressure ~600 psi
9. Start third step using produced water, @ 1.5 bpm, pressure ~700 psi
10. Start fourth step using produced water, @ 2 bpm, pressure ~800 psi
11. Start fifth step using produced water, @ 2.5 bpm, pressure ~900 psi.
12. Shut down test, tubing in well only rated for ~1100 psi, did not want to exceed.
13. ISIP-650 psi, ISIP 5-220 psi, ISIP 10-50 psi, ISIP 15- 0 psi.
14. RDMO Allied Oil and Gas Services.

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised August 1, 2011																																	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG		1. WELL API NO. 30-021-20692																																	
4. Reason for filing: <input checked="" type="checkbox"/> COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) <input type="checkbox"/> C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		2. Type of Lease <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN 3. State Oil & Gas Lease No.																																	
7. Type of Completion: <input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER		5. Lease Name or Unit Agreement Name Breithum Operating LP 1930 SWD 6. Well Number: 12-4-G																																	
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13. Date Spudded 10/10/2015	14. Date T.D. Reached 10/15/2015	15. Date Rig Released 10/16/2015	16. Date Completed (Ready to Produce) 10/28/2015 Disposal Well	17. Elevations (DF and RKB, RT, GR, etc.) 4556' GR																															
18. Total Measured Depth of Well 2335'		19. Plug Back Measured Depth 1831'		20. Was Directional Survey Made?																															
21. Type Electric and Other Logs Run GR/SP/DEN/NEU/IND																																			
22. Producing Interval(s), of this completion - Top, Bottom, Name Injection Intervals: 1480'-1530' San Andres, 1560'-1631' Glorieta																																			
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26. Perforation record (interval, size, and number) 1480'-1500', 1510'-1530', 1560'-1570', 1574'-1615', 1620'-1631' . 6 JSPF = 612 0.40" holes			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>1560'- 1631'</td> <td>1500 gals 15% HCl, 4200 gals produced water</td> </tr> <tr> <td>1480'- 1530'</td> <td>2500 gals 15% HCl, 4200 gals produced water</td> </tr> </table>			DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	1560'- 1631'	1500 gals 15% HCl, 4200 gals produced water	1480'- 1530'	2500 gals 15% HCl, 4200 gals produced water																								
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28. PRODUCTION																																			
Date First Production N/A		Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in)																															
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29. Disposition of Gas (Sold, used for fuel, vented, etc.)				30. Test Witnessed By																															
31. List Attachments Logs, wellbore diagram, acid job graphs																																			
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit. (Closed loop)																																			
33. If an on-site burial was used at the well, report the exact location of the on-site burial: <div style="display: flex; justify-content: space-between;"> Latitude Longitude NAD 1927 1983 </div>																																			
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief																																			
Signature <i>Shelly Doescher</i>		Printed Name Shelly Doescher		Title Agent																															
E-mail Address shelly_doescher@yahoo.com				Date 02/08/2016																															

Breitburn Energy
Libby Minerals SWD

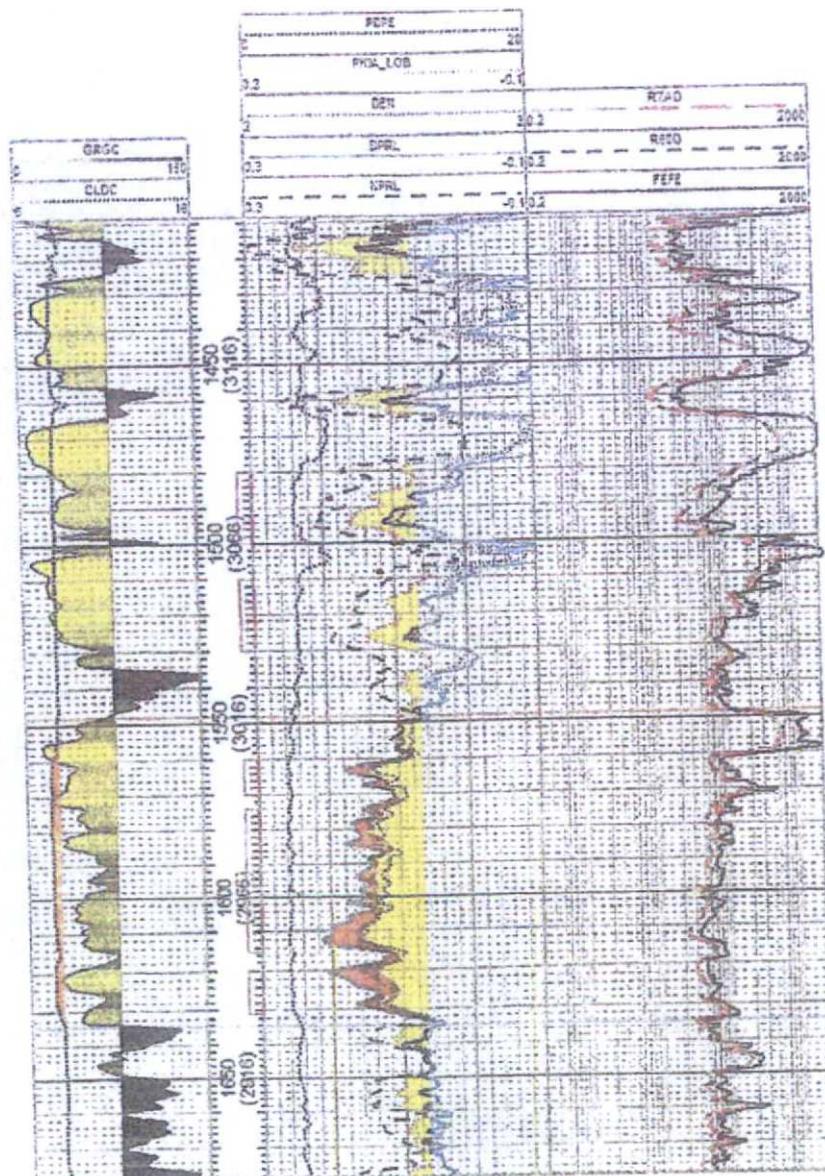


Job Started On: 11/11/2015 @ 11:21:56 AM

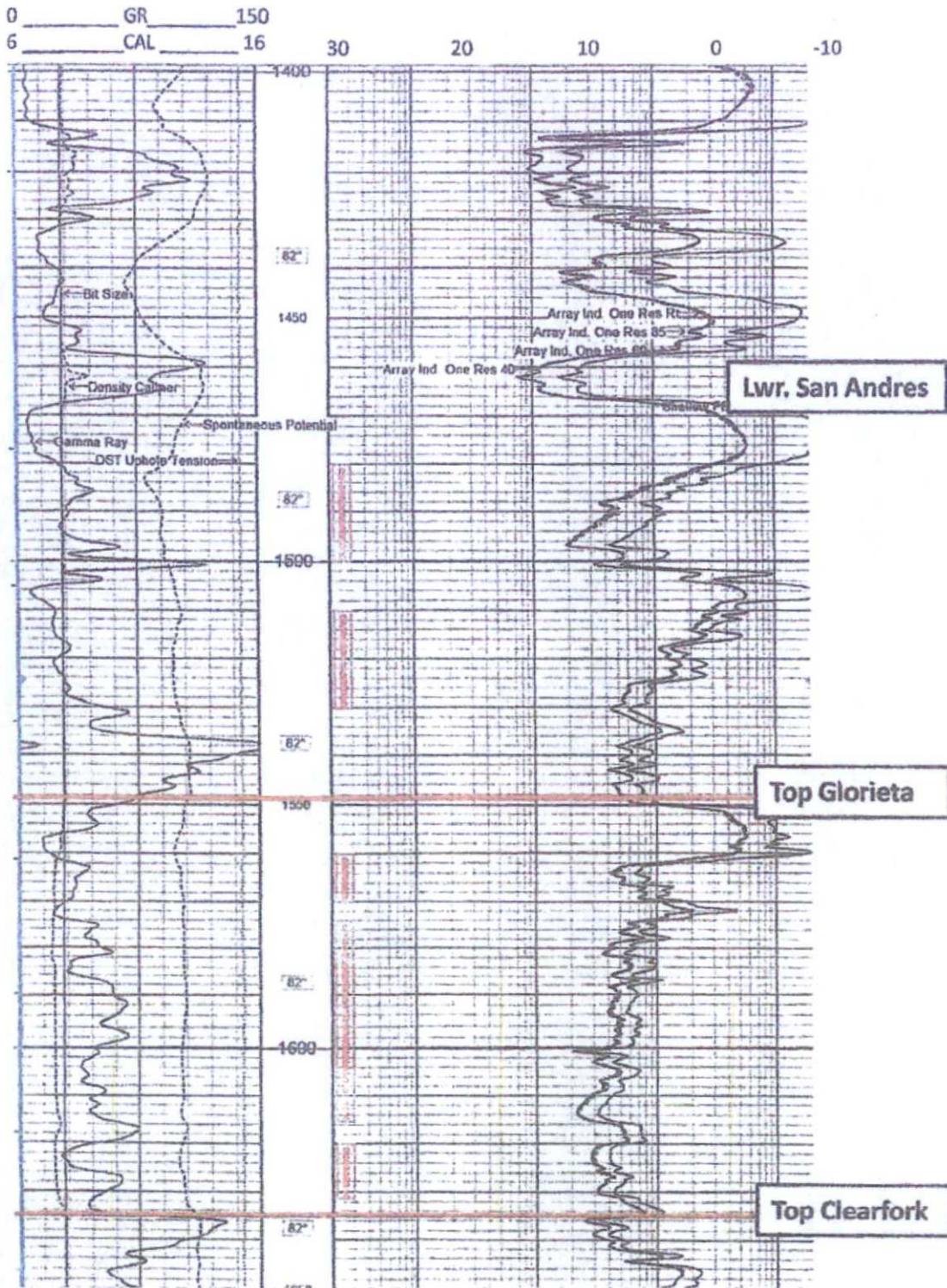
Libby Ranch 1930

12-4-G

30212069200000



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



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

