

LIME ROCK RESOURCES II-A, L.P.  
Mike Pippin  
3104 N. Sullivan Avenue  
Farmington, NM 87401  
505-327-4573 (phone) mike@pippinllc.com

RECEIVED OGD  
2014 MAR -4 P 3: 20

February 26, 2014

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

**RE: Injection Pressure Increase Request & Amended Forms**  
Administrative Order SWD-1338  
OXY PESO #1 SWD  
API#: 30-015-34683  
Unit Letter "F" Section 24 T18S R27E  
Eddy County, New Mexico

Dear Mr. Goetze,

As you indicated in your email of February 21, 2014, it appeared as though Lime Rock was injecting into intervals that were not authorized in SWD-1338. After review of all our data, this was not the case. We discovered that our problem was due to missing and incorrect data on our morning reports. Enclosed, please find my letter to Randy Dade, copies of the amended C-105, and the amended wellbore diagram, which have been sent to the District office. Randy Dade approved these amendments on 2/28/14. Also enclosed is supporting data in the form of the missing morning report that indicates the PBSD to be 9038' along with the invoice from the perforating company indicating the perms are 6690'-6700'.

In summary, Lime Rock believes that our Oxy Peso #1 SWD is in full compliance, and we are very sorry for the inconvenience and the time you invested in this issue. We request that our IPI application be reviewed again.

Please contact me at 505-327-4573 should you have any questions.

Very truly yours, .



Mike Pippin P.E.  
Petroleum Engineer

Enclosures

LIME ROCK RESOURCES II-A, L.P.  
Mike Pippin  
3104 N. Sullivan Avenue  
Farmington, NM 87401  
505-327-4573 (phone) mike@pippinllc.com

February 26, 2014

NMOCD  
c/o Randy Dade  
811 South 1st Street  
Artesia, NM 88210

**RE: OXY PESO #1 SWD – SWD-1338**  
API#: 30-015-34683  
Unit Letter "F" Section 24 T18S R27E  
Eddy County, New Mexico

Dear Randy,

As Phil Goetze indicated in his email of February 21, 2014, it appeared as though Lime Rock was injecting into intervals that were not authorized in SWD-1338. After review of all our data, this was not the case. We discovered that our problem was due to missing and incorrect data on our morning reports. Enclosed, please find copies of two amended C-103s, an amended C-105, and an amended wellbore diagram. Also enclosed is supporting data in the form of the invoice from the perforating company indicating the perfs are actually in the permitted interval at 6690'-6700'.

Also enclosed is our morning report from 10/20/12. It indicates that 85 sx of "H" cmt was pumped at a depth of 9348'. Then 5 stands of drill pipe were pulled (~310') to a depth of ~9038' where the well was circulated with bottoms up two times. This would indicate that the PBTD is at ~9038'. The calculated PBTD of 85 sx of cmt from 9348' in a 6-1/8" open hole is 8858'. Both depths of 9038' and 8858' are well above the lowest approved injection depth of 9200' (SWD-1338). In summary, Lime Rock would like to use 9038' as the official PBTD. If you approve this PBTD in the open hole, I will send copies of the amended forms to Phil Goetze who is reviewing our IPI application.


Please contact me at 505-327-4573 should you have any questions.

Very truly yours,



Mike Pippin

Petroleum Engineer

Submit To Appropriate District Office Two Copies <b>District I</b> 1625 N. French Dr., Hobbs, NM 88240 <b>District II</b> 1301 W. Grand Avenue, Artesia, NM 88210 <b>District III</b> 1000 Rio Brazos Rd., Aztec, NM 87410 <b>District IV</b> 1220 S. St. Francis Dr., Santa Fe, NM 87505		<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b> <b>AMENDED</b> <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>				<b>Form C-105</b> July 17, 2008					
								1. WELL API NO. 30-015-34683			
								2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN			
								3. State Oil & Gas Lease No.			
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>											
4. Reason for filing:  <input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)  <input type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (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)								5. Lease Name or Unit Agreement Name <b>OXY PESO</b>			
								6. Well Number: <b>#1 SWD</b>			
7. Type of Completion: <input type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input checked="" type="checkbox"/> OTHER <b>RE-ENTER</b>											
8. Name of Operator: <b>LIME ROCK RESOURCES II-A, L.P.</b>								9. OGRID: 277558			
10. Address of Operator: c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401								11. Pool name or Wildcat: Abo, Wolfcamp, Cisco (97967)			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	
Surface:	F	24	18-S	27-E		1660	North	1850	West	Eddy	
BH:											
13. Date Re-Enter 10/11/12	14. Date T.D. Reached 10/17/12	15. Date Drilling Rig Released 10/23/12			16. Date Completed (Ready to Produce) 10/23/12 - SWD			17. Elevations (DF and RKB, RT, GR, etc.): 3579' GR			
18. Total Measured Depth of Well 9367'			19. Plug Back Measured Depth 9038'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Induction, Density/Neutron			
22. Producing Interval(s), of this completion - Top, Bottom, Name 6690'-6700' & Open Hole: 7290'-9038'										<b>SWD-1338</b>	
<b>23. CASING RECORD (Report all strings set in well)</b>											
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
*13-3/8"		48#		427'		17-1/2"		450 sx		0'	
*9-5/8"		36#		2502'		12-1/4"		950 sx		0'	
7"		26# L-80		7290'		8-3/4"		185 sx H		0'	
*Existing Csg Before Re-Entry								+ 200 sx H			
<b>24. LINER RECORD</b>						<b>25. TUBING RECORD</b>					
SIZE	TOP	BOTTOM	SACKS CEMENT		SCREEN	SIZE	DEPTH SET	PACKER SET			
						4-1/2"	6650'	6650'			
26. Perforation record (interval, size, and number) 6690'-6700', 40 holes Open Hole: 7290'-9038'						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
						9348'		Pumped 85 sx "H" cmt. Pulled 5 stds & circ twice.			
						6690'-6700' Open Hole: 7290'-9038'		4000 gal 15% HCL @ 8870'			
<b>28. PRODUCTION</b>											
Date First Production 2/4/13 - SWD		Production Method (Flowing, gas lift, pumping - Size and type pump) SWD					Well Status (Prod. or Shut-in) SWD				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period:		Oil - Bbl	Gas - MCF	Water - Bbl.		Gas - Oil Ratio		
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.		Gas - MCF	Water - Bbl.		Oil Gravity - API - (Corr.)			
29. Disposition of Gas (Sold, used for fuel, vented, etc.) To Be Sold								30. Test Witnessed By: Jerry Smith			
31. List Attachments											
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.											
33. If an on-site burial was used at the well, report the exact location of the on-site burial:											
Latitude				Longitude				NAD 1927 1983			
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief											
Signature				Printed Name		Mike Pippin		Title: Petroleum Engineer		Date: 2/26/14	
E-mail Address: mike@pippinllc.com											

## **OXY PESO #1 SWD – Re-Entered Well For SWD**

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## OIL OR GAS SANDS OR ZONES

No. 3, from.....to.....  
No. 4, from.....to.....

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

No. 1, from.....to.....feet.....  
No. 2, from.....to.....feet.....

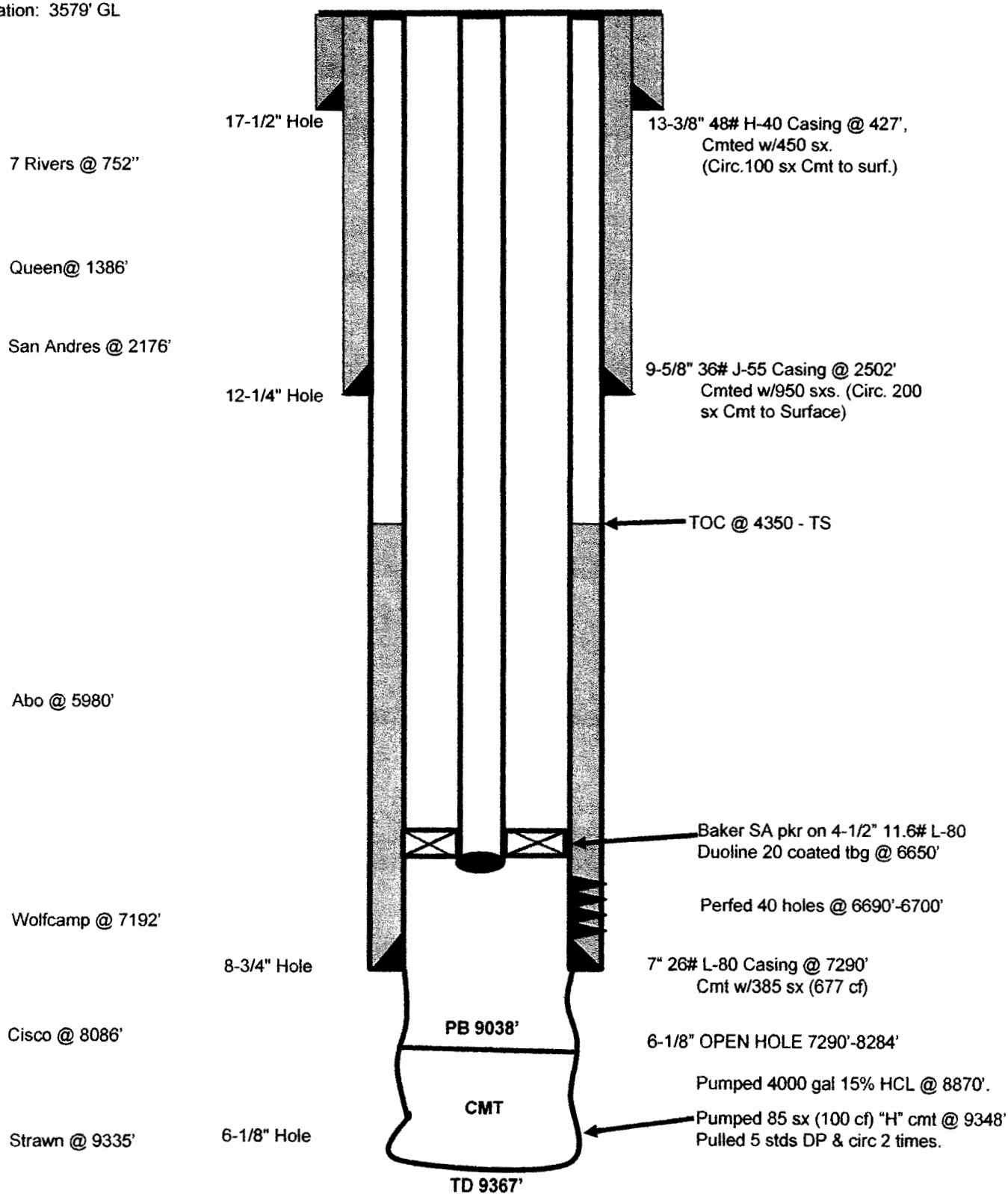
## LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology
			- On File -

**Current**  
**Abo, Wolfcamp, Cisco (97967)**

REVISÉD 2/26/14

Re-enter: 10/11/12  
Completed: 10/23/12  
Elevation: 3579' GL





**Gray Wireline**  
**6000 Western Place, Ste. 375**  
**Ft. Worth, TX 76107**

**No. T-A78-ECE-0AF2**

Date Job Completed: **10/21/2012**

Company: **Lime Rock Resources**  
 Address: **1111 Bagby Street, Ste 4600**  
**Houston, TX 77002**  
 Telephone: **713-292-9610 x 538**  
 Representative: **BRAD TATE**  
 Representative Phone: **5754411966**

Invoice Type: **EPL**  
 Location Type: **Drilling Rig**  
 District: **1-Permian:11-Denver City TX**  
 Unit Number: **25**  
 Well Name: **OXY PESO #1 SWD**  
 Well Type: **ON**  
 Field Name: **PESO**  
 State-County/Parish: **NM, EDDY**  
 Well Legal:

**JOB LOG**

Category	Start	End	Total Hours	Comments
Travel Time	10/21/2012 10:00 AM	10/21/2012 12:00 PM	2.0	DENVER CITY YARD TO PESO #1
Standby	10/21/2012 12:00 PM	10/21/2012 07:00 PM	7.0	WAITING TO LAY DOWN PIPE
Rig Up/Down	10/21/2012 07:00 PM	10/21/2012 07:30 PM	0.50	RIG UP WIRELINE
Going Down Hole	10/21/2012 08:00 PM	10/21/2012 08:25 PM	0.42	RIH W/ GAMMA RAY
Gamma Ray	10/21/2012 08:25 PM	10/21/2012 09:15 PM	0.83	RUNNING GAMMA RAY FROM 7300' TO 5000'
Coming Out of Hole	10/21/2012 09:15 PM	10/21/2012 10:00 PM	0.75	POOH W/ GAMMA RAY/CCL
Going Down Hole	10/21/2012 10:30 PM	10/21/2012 10:50 PM	0.33	RIH W 4 1/2 GUN
Perf	10/21/2012 10:50 PM	10/21/2012 10:55 PM	0.8	PERF @6690-6700
Coming Out of Hole	10/21/2012 10:55 PM	10/21/2012 11:10 PM	0.25	POOH W/ GUN AND LAY DOWN
Going Down Hole	10/21/2012 11:15 PM	10/21/2012 11:30 PM	0.25	RIH W/ GAUGE RING AND JUNK BASKET TO 6700'
Coming Out of Hole	10/21/2012 11:30 PM	10/21/2012 11:45 PM	0.25	POOH W/ GAUGE RING AND JUNK BASKET
Going Down Hole	10/22/2012 12:30 AM	10/22/2012 01:30 AM	1.0	RIH W/ PACKER
Packer	10/22/2012 01:30 AM	10/22/2012 01:35 AM	0.8	SET PACKER @ 6650'
Coming Out of Hole	10/22/2012 01:40 AM	10/22/2012 02:00 AM	0.33	POOH W/ PACKER
Rig Up/Down	10/22/2012 02:00 AM	10/22/2012 02:30 AM	0.50	RIG DOWN WIRELINE
Travel Time	10/22/2012 03:00 AM	10/22/2012 05:00 AM	2.0	PESO #1 TO DENVER CITY TX

# Lee Consulting, Inc.

P.O. Box 8280

Roswell, New Mexico 88202-8280

575-626-4292 Fax 575-624-2911

**API Number: 30-015-34683**

## DAILY DRILLING REPORT

**AFE Number: D12196**

Date:	10/20/2012	Operator:	LRE Operating, LLC	Well Name:	Oxy-Peso #1 SWD
Field or Prospect:	Abo, WC, Cisco; SWD	County:	Eddy Co, NM	Contractor & Rig No.:	UDI Rig #45
Pres Depth:	9,368	Ftg:		Rot. Hrs.:	
				Avg. ROP:	
Present Operation:	TIH w/ Casing Scraper				
Last Casing (Size & Depth):	7" 26# L80 LTC @ 7290'	Shoe Test:	10.5# EMW	KB to GL:	15
Spud Date:	10/11/2012	Days from Spud:	9	Consultant:	Brad Tate 575-441-1966
Breakdown of Operations					
From	To	Hrs	Repair Hours for day:	Repair Hours for Job:	BHA Hours: 32.5
0600	0900	3.0	TIH to set plug		
0900	1000	1.0	Circulate & strap 20 Jts DP		
1000	1100	1.0	Pick up 20 jts DP, TIH to 9348 ft		
1100	1230	1.5	Circulate and hold safety meeting w/ Baker Hughes		
1230	1400	1.5	Pump 85 sx "H" Neat cement, 15.6 wt, 1.18 yield, Displace w/ 97 bbls mud. Plug Down @ 1356 MST		
1400	1630	2.5	Pull 5 stds, circulate 2 bottoms up		
1630	1700	0.5	Pull 5 stds		
1700	1730	0.5	Circulate		
1730	1800	0.5	Pull 5 stds		
1800	1830	0.5	Circulate		
1830	1900	0.5	Pull 5 stds		
1900	1930	0.5	Circulate		
1930	2000	0.5	Pull 3 stds		
2000	2115	1.25	Circulate bottoms up @ 7173'		
2115	0000	2.75	Lay Down 15 jts DP		
0000	0215	2.25	TOOH		
0215	0245	0.5	Pick up Scraper & Subs on floor		
0245	0600	3.25	TIH 18 stds 1700 ft, PU Scraper & Subs, TIH		
			No Incidents, No Spills		
			H2S and BOP Drills each shift.		

DATE IN 11/19/13	SUSPENSE	ENGINEER PG	LOGGED IN 11/21/13	TYPE IPI	PRG 1332549188
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



OXY PESO #1 SWD

Order: SWD-1338

### 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 \_\_\_\_\_

Lime Rock

Oxy Peso #1 SWD

SWD-1338

30-015-34683

#### [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

2013 NOV 19 P 3:55  
 RECEIVED OGD

#### [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.

Mike Pippin  
 Print or Type Name

*Mike Pippin*  
 Signature

Petroleum Engineer  
 Title  
 mike@pippinllc.com  
 e-mail Address

November 18, 2013  
 Date



LIME ROCK RESOURCES II-A, L.P.  
Mike Pippin  
3104 N. Sullivan Avenue  
Farmington, NM 87401  
505-327-4573 (phone) mike@pippinllc.com

November 18, 2013

Terry G. Warnell  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**RE: Injection Pressure Increase Request**  
Administrative Order SWD-1338  
OXY PESO #1 SWD  
API#: 30-015-34683  
Unit Letter "F" Section 24 T18S R27E  
Eddy County, New Mexico

Dear Mr. Warnell,

By administrative order SWD-1338, dated June 15, 2012, the NMOCD authorized water injection into Oxy Peso #1 SWD (API No. 30-015-34683) for the disposal of produced water. The order provides for a wellhead injection pressure of "no more than 1338 psi". On 2/4/13, this well started produced water injection. Lime Rock believes that this maximum pressure of 1338 psi is - significantly below the formation frac pressure.

The disposal formation in this well is extremely tight. On 10/31/13, a step rate test was run to determine the actual formation frac pressure. The formation pressure did not break at a maximum surface pressure of 2050 psi (bottom hole pressure of 4580 psi), which indicates that the formation frac pressure was not exceeded at that point. Therefore, the actual formation frac pressure is higher than a surface pressure of 2050 psi. A summary of the step rate test data from Cardinal Surveys is attached along with a wellbore diagram.

Lime Rock Resources therefore requests that the maximum wellhead injection pressure be increased to at least 2050 psi.

Please contact me at 505-327-4573 should you have any questions.

Very truly yours,

*Mike Pippin*

Mike Pippin P.E.  
Petroleum Engineer

Enclosures

2050 requested  
-50  
-----  
2000 psi

$\frac{2000 \text{ psi}}{6670 \text{ ft}} = 0.29 \text{ psi/ft}$

# OXY PESO #1 SWD

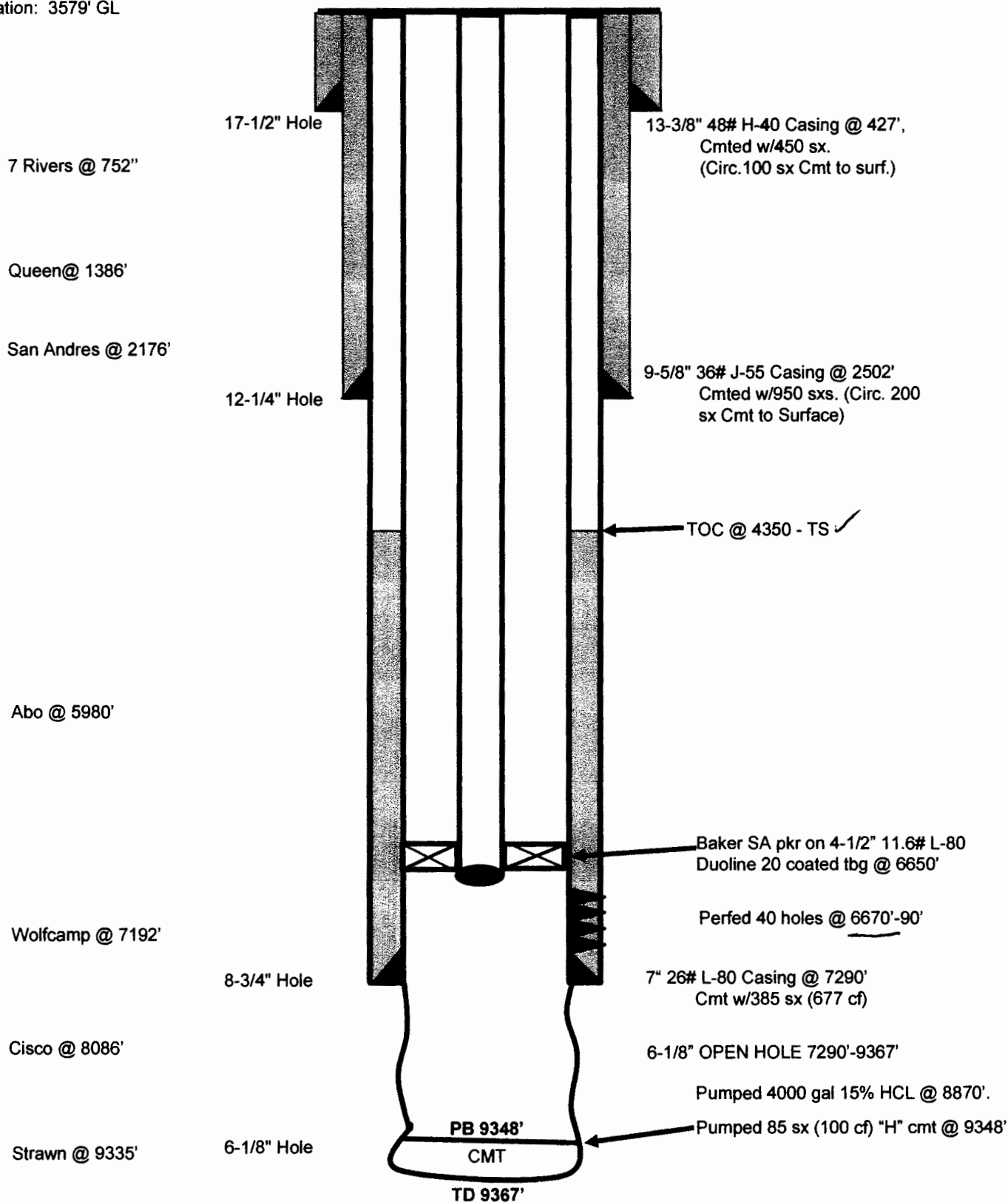
Current

Abo, Wolfcamp, Cisco (97967)

(f) Section 24, T-18-N, R-27-W, Eddy County, NM

M. PIPPIN – 11/18/13

Re-enter: 10/11/12  
Completed: 10/23/12  
Elevation: 3579' GL



Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		<b>State of New Mexico</b> <b>Energy, Minerals and Natural Resources</b>  <b>Oil Conservation Division</b> <b>1220 South St. Francis Dr.</b> <b>Santa Fe, NM 87505</b>			<b>Form C-105</b> <b>July 17, 2008</b>	
					1. WELL API NO. 30-015-34683	
					2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN	
					3. State Oil & Gas Lease No.	
<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>						
4. Reason for filing: <input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only) <input type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (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)					5. Lease Name or Unit Agreement Name <b>OXY PESO</b>	
					6. Well Number: <b>#1 SWD</b> <div style="text-align: right; font-size: 1.2em;">SWD-1338</div>	
7. Type of Completion: <input type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input checked="" type="checkbox"/> OTHER <b>RE-ENTER</b>						
8. Name of Operator: <b>LIME ROCK RESOURCES II-A, L.P.</b>					9. OGRID: 277558	
10. Address of Operator: c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401					11. Pool name or Wildcat: Abo, Wolfcamp, Cisco (97967)	
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the
Surface:	F	24	18-S	27-E		1660
BH:						
13. Date Re-Enter 10/11/12	14. Date T.D. Reached 10/17/12	15. Date Drilling Rig Released 10/23/12		16. Date Completed (Ready to Produce) 10/23/12 - SWD		17. Elevations (DF and RKB, RT, GR, etc.): 3579' GR
18. Total Measured Depth of Well 9367'		19. Plug Back Measured Depth 9348'		20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Induction, Density/Neutron
22. Producing Interval(s), of this completion - Top, Bottom, Name 6670'-90' & Open Hole: 7290'-9348'						<b>SWD-1338</b>
<b>23. CASING RECORD (Report all strings set in well)</b>						
CASING SIZE	WEIGHT LB./FT.	DEPTH SET		HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
*13-3/8"	48#	427'		17-1/2"	450 sx	0'
*9-5/8"	36#	2502'		12-1/4"	950 sx	0'
7"	26# L-80	7290'		8-3/4"	185 sx H	0'
*Existing Csg Before Re-Entry					+ 200 sx H	
<b>24. LINER RECORD</b>						
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		
				<b>25. TUBING RECORD</b>		
SIZE		DEPTH SET		PACKER SET		
4-1/2"		6650'		6650'		
26. Perforation record (interval, size, and number) 6670'-90', 40 holes Open Hole: 7290'-9348'				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL    AMOUNT AND KIND MATERIAL USED 9348'    Pumped 85 sx "H" cmt 6670'-90' Open Hole: 7290'-9348'    4000 gal 15% HCL @ 8870'		
<b>28. PRODUCTION</b>						
Date First Production 2/4/13 - SWD		Production Method (Flowing, gas lift, pumping - Size and type pump) SWD			Well Status (Prod. or Shut-in) SWD	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period:	Oil - Bbl	Gas - MCF	Water - Bbl.    Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
29. Disposition of Gas (Sold, used for fuel, vented, etc.) To Be Sold					30. Test Witnessed By: Jerry Smith	
31. List Attachments						
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.						
33. If an on-site burial was used at the well, report the exact location of the on-site burial:						
Latitude			Longitude			NAD 1927 1983
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief						
Signature		Printed Name		Title		Date
Mike Pippin		Mike Pippin		Petroleum Engineer		4/23/13
E-mail Address: mike@pippinllc.com						

**OXY-PESO #1 SWD -- Re-Entered Well For SWD**

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

## OIL OR GAS SANDS OR ZONES

## IMPORTANT WATER SANDS

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology
			- On File -

## Step Rate Test



### Cardinal Surveys Company

October 31, 2013

Lime Rock Resources  
OXY PESO STATE #1 SWD

Eddy County, New Mexico  
File # 21482  
Tool # CSC101

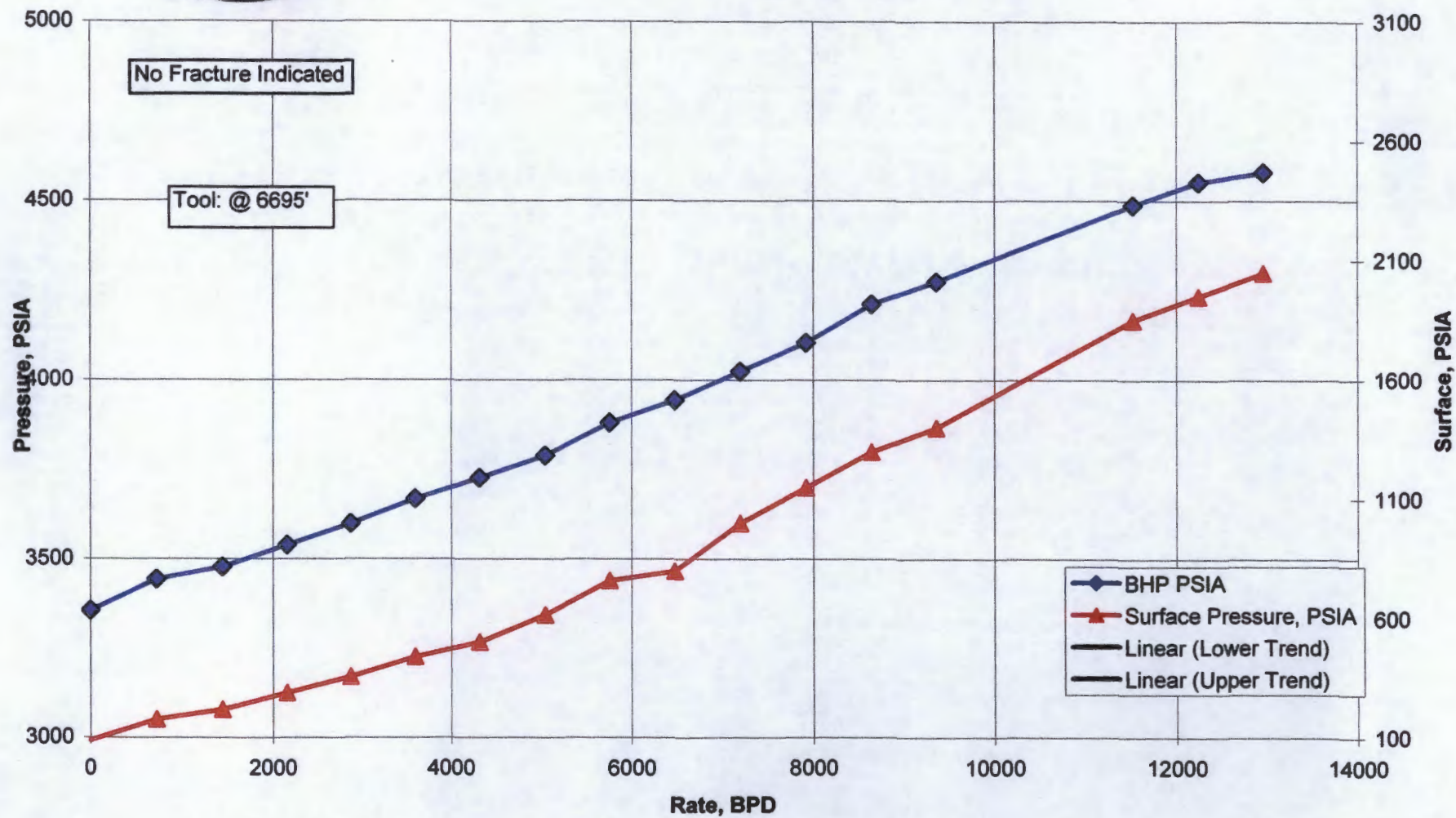
No Fracture Indicated ✓

Downhole PSI Tool Ser. No.  
Surface PSI Gauge Ser. No.  
Tool @ 6695' ✓

Start Time	End Time	Rate BPD	Comments
1	10:02 AM	10:15 AM	3355.6 On Bottom ✓
2	10:15 AM	10:45 AM	3442.8
3	10:45 AM	11:15 AM	3477.2
4	11:15 AM	11:45 AM	3538.7
5	11:45 AM	12:15 PM	3598.8
6	12:15 PM	12:45 PM	3668.1
7	12:45 PM	1:15 PM	3725.4
8	1:15 PM	1:45 PM	3788.4
9	1:45 PM	2:15 PM	3880.9
10	2:15 PM	2:45 PM	3943.2
11	2:45 PM	3:15 PM	4023.5
12	3:15 PM	3:45 PM	4104.4
13	3:45 PM	4:15 PM	4212.6
14	0.677083333	0.697917	4274.2
15	0.697916667	0.71875	4348.9
16	0.71875	0.739583	4423.3
17	0.739583333	0.760417	4488.1
18	0.760416667	0.78125	4551.7
19	0.78125	0.802083	4580.6 Out of water
20	0.802083333	0.8125	3802 Fall off



Lime Rock Resources Oxy Peso State # 1 SWD  
Step Rate Test 10-31-2013



# Step Rate Test

Lime Rock Resources  
Oxy Peso State # 1 SWD

Eddy County , New Mexico



	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	B. H. Pressure PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD
1	10:02 AM	10:15 AM	13	0	0	3355.6	88	0	0.00	0
2	10:15 AM	10:45 AM	30	720	720	3442.8	176	25	25.00	1200
3	10:45 AM	11:15 AM	30	1440	720	3477.2	218	56	31.00	1488
4	11:15 AM	11:45 AM	30	2160	720	3538.7	288	102	46.00	2208
5	11:45 AM	12:15 PM	30	2880	720	3598.8	357	162	60.00	672
6	12:15 PM	12:45 PM	30	3600	720	3668.1	440	240	78.00	864
7	12:45 PM	1:15 PM	30	4320	720	3725.4	500	330	90.00	4320
8	1:15 PM	1:45 PM	30	5040	720	3788.4	615	437	107.00	5136
9	1:45 PM	2:15 PM	30	5760	720	3880.9	760	565	128.00	6144
10	2:15 PM	2:45 PM	30	6480	720	3943.2	800	698	133.00	6384
11	2:45 PM	3:15 PM	30	7200	720	4023.5	1000	848	150.00	7200
12	3:15 PM	3:45 PM	30	7920	720	4104.4	1150	1015	167.00	8016
13	3:45 PM	4:15 PM	30	8640	720	4212.6	1300	1204	189.00	9072
14	4:15 PM	4:45 PM	30	9360	720	4274.2	1400	1402	198.00	9504
17	5:45 PM	6:15 PM	30	11520	#REF!	4488.1	1850	2086	#REF!	#REF!
18	6:15 PM	6:45 PM	30	12240	720	4551.7	1950	2345	259.00	12432
19	6:45 PM	7:15 PM	30	12960	720	4580.6	2050	2444	99.00	4752
20	7:15 PM	7:30 PM	15	0	0	3802	536	2444	0.00	0





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