

DATE IN 3.23.11	SUSPENSE	ENGINEER TW	LOGGED IN 3.23.11	TYPE IPI	APP NO: 1108232916
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39+ PTGW

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



RECEIVED
 2011 MAR 22
 Aspen 32 State Com #1
 30-015-34148

ASPEN 32 STATE COM #1

Order: SWD-1247-A

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 _____

state
 Eddy
 SWD-1247-A

- [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

1640
 4187-50
 (4137)
 0.5

[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		Petroleum Engineer	March 21, 2011
Print or Type Name	Signature	Title	Date
		mike@pippinllc.com	
		e-mail Address	

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

March 21, 2011

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-1247-A
ASPEN 32 STATE COM #1
API#: 30-015-34148
Unit Letter "J" Section 32 T17S R28E
Eddy County, New Mexico

Dear Mr. Warnell:

By administrative order SWD-1247-A, dated February 23, 2011, the NMOCD authorized water injection into Aspen 32 State Com #1 (API No. 30-015-34148) for the disposal of produced water. The order provides for a wellhead injection pressure of "no more than 1640 psi". Lime Rock believes that this maximum pressure of 1640 psi is significantly below the formation frac pressure.

The disposal formation in this well is extremely tight. On 3/7/11, a step rate test was run to determine the actual formation frac pressure. The formation did not break. Therefore, the test was conducted again on 3/15/11 with a larger pump truck. The formation pressure did not break at a maximum surface pressure of 4187 psi (bottom hole pressure of 5908 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 4187 psi. A summary of the step rate test data from Cardinal Surveys is attached.

Lime Rock Resources therefore requests that the maximum wellhead injection pressure be increased to at least 4187 psi.

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

Very truly yours,


Mike Pippin P.E.
Petroleum Engineer

Enclosures

ASPEN 32 STATE COM #1

Current

SWD Canyon, (96148)

(J) Section 32, T-17-S, R-28-E, Eddy County, NM

Today's Date: 3/21/11 – M. Pippin
Spud: 11/30/10
Completed: 3/1/11
Elevation: 3669' GL

Queen @ 1219'

San Andres @ 1981'

Glorieta @ 3411'

Abo @ 5533'

Wolfcap @ 7050'

Cisco @ 8142'

Strawn @ 9242'

17-1/2" hole

12-1/4" hole

8-3/4" hole

13-3/8" 48# Csg @ 428'
Cmt w/400 sxs (Circ. 75 sx cmt)

9-5/8" 40# Csg @ 2660'
Cmt w/1100 sxs (Circ. 85 sx cmt)

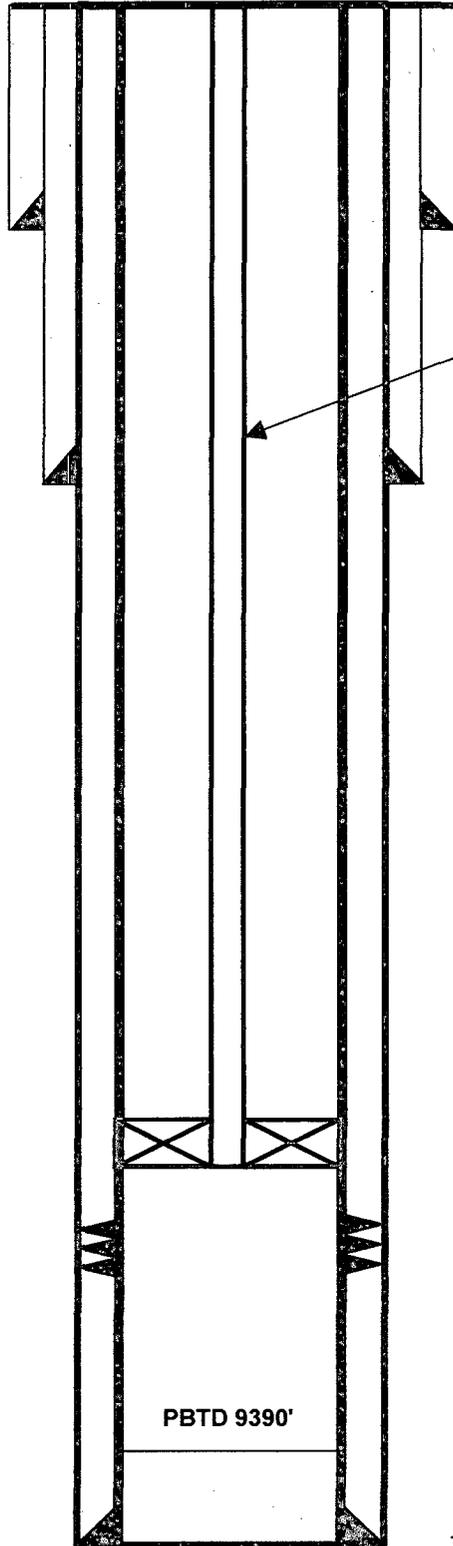
2-7/8" tbg on pkr @ 8117'

SWD CANYON Perfs:8204'-8708'

PBTD 9390'

TD 9875'

7" 29# L-30 Csg @ 9457'
Cmt with 1130 sx, Circ 66 sx Cmt



Step Rate Test



Cardinal Surveys Company

15-Mar-11

Lime Rock Resources

Well: Aspen 32 State Com No. 1

Field;

County: Eddy County NM

SC59528

File No. 20,196

Downhole PSI Tool Ser. No. CSC2601
Surface PSI Gauge Ser. No. 10213
Tool @ 8,270'

	Start	End	Rate
1	7:26 AM	8:30 AM	0 8,270'
2	8:30 AM	9:00 AM	500
3	9:00 AM	9:30 AM	1000
4	9:30 AM	10:00 AM	1500
5	10:00 AM	10:30 AM	2000
6	10:30 AM	11:00 AM	3000
7	11:00 AM	11:30 AM	4000
8	11:30 AM	12:00 PM	5000
9	12:00 PM	12:30 PM	6000
10	12:30 PM	1:00 PM	7000
11	1:00 PM	1:30 PM	8000
12	1:30 PM	2:00 PM	9000
13	2:00 PM	2:15 PM	0 15 Min. Fall Off
14			
15			
16			
17			
18			

Step Rate Test
15-Mar-11

Enervest Operating LLC
Well: Aspen 32 State Com. No. 1
Field:
Location: Eddy County, New Mexico



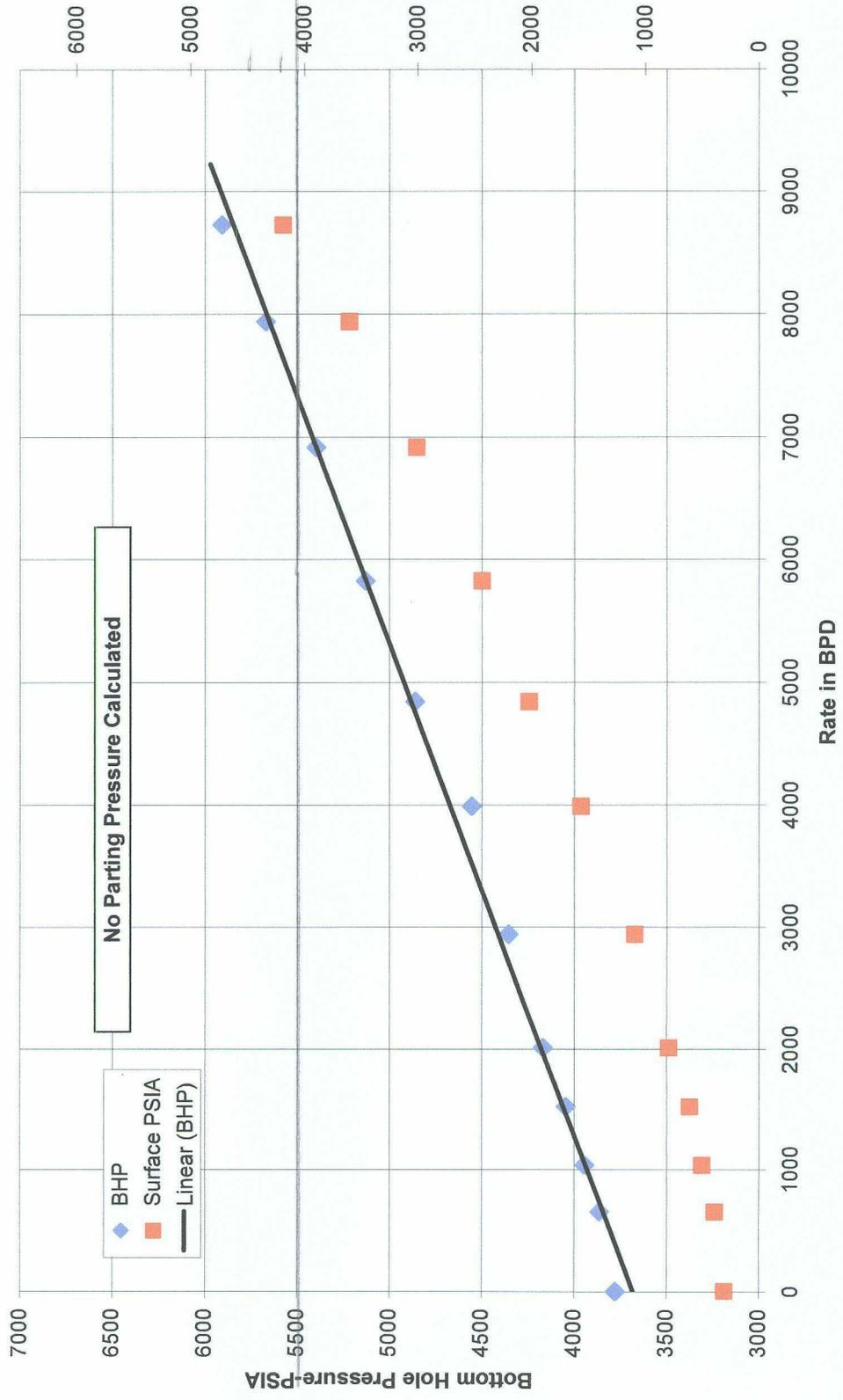
	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP		Surf		Cum		Delta		Avg. BPD	Lower Trend	Upper Trend
						PSIA	PSIA	BHP	PSIA	BBL	BBL	BBL	BBL			
1	7:26 AM	8:30 AM	64	0	0	3779.3	305.4	0	0	0	0	0	0	0		
2	8:30 AM	9:00 AM	30	500	500	3864.7	389.7	13.5	648	13.5	648	13.5	648			
3	9:00 AM	9:30 AM	30	1000	100	3945	501.5	35.1	1037	35.1	1037	21.6	1037			
4	9:30 AM	10:00 AM	30	1500	500	4046.6	611.4	66.8	1522	66.8	1522	31.7	1522			
5	10:00 AM	10:30 AM	30	2000	500	4169.9	794.2	108.7	2011	108.7	2011	41.9	2011			
6	10:30 AM	11:00 AM	30	3000	1000	4356	1094.8	170	2942	170	2942	61.3	2942			
7	11:00 AM	11:30 AM	30	4000	1000	4556	1566.6	253.1	3989	253.1	3989	83.1	3989			
8	11:30 AM	12:00 PM	30	5000	1000	4862.9	2022.3	354	4843	354	4843	100.9	4843			
9	12:00 PM	12:30 PM	30	6000	1000	5131	2436	475.3	5822	475.3	5822	121.3	5822			
10	12:30 PM	1:00 PM	30	7000	1000	5398.4	3012.2	619.4	6917	619.4	6917	144.1	6917			
11	1:00 PM	1:30 PM	30	8000	1000	5671.7	3603.5	784.8	7939	784.8	7939	165.4	7939			
12	1:30 PM	2:00 PM	30	9000	1000	5908.5	4187	966.6	8726	966.6	8726	181.8	8726			
13	2:00 PM	2:15 PM	15	0	0	55065.6	1679.3	966.6	0	966.6	966.6	0	0			

14
15

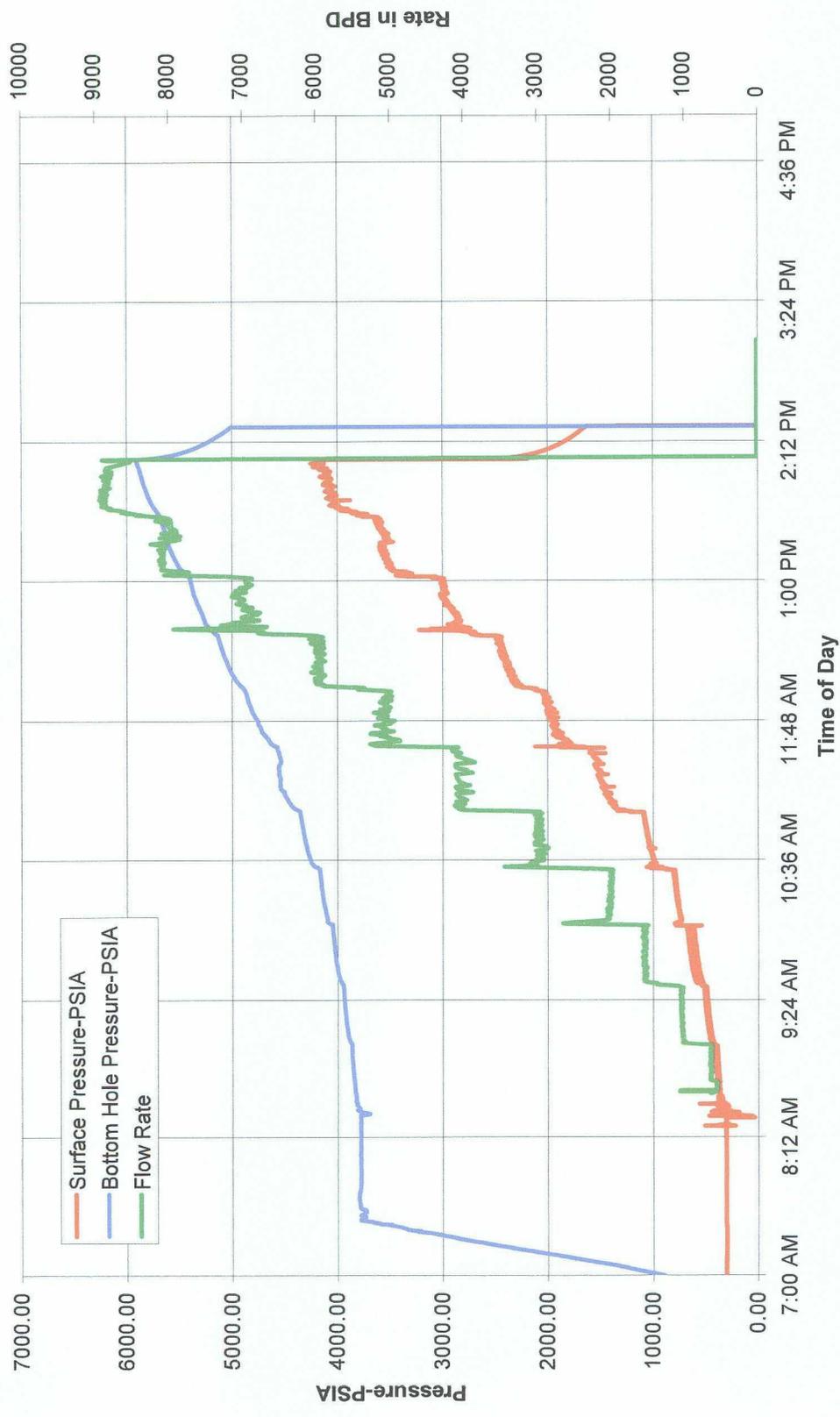
Intersect #DIV/0!
BHP PSI #DIV/0!

BPD
PSIA

Lime Rock Resources
 Aspen 32 State Com No. 1
 Stepe Rate Chart 15-Mar-11



Lime Rock Resources
 Aspen 32 State Com No. 1
 Total Data Chart 15-March-11



Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., 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

Form C-103
 June 19, 2008

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

WELL API NO. 30-015-34148
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name ASPEN 32 STATE COM
8. Well Number #1
9. OGRID Number 255333
10. Pool name or Wildcat SWD Canyon (96148)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3669' GL

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 Other SWD

2. Name of Operator
LIME ROCK RESOURCES A, L.P.

3. Address of Operator
c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401

4. Well Location
 Unit Letter J : 1370 feet from the SOUTH line and 1609 feet from the EAST line
 Section 32 Township 17-S Range 28-E NMPM Eddy County

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>	OTHER: Completion <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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

On 12/15/10, PT 7" csg to 1000 psi for 30 min-OK. Perfed 7" csg in Canyon @ 8383'-85', 8392'-98', 8418'-24', 8433'-37', 8455'-57', 8466'-70', 8474'-78', 8498'-8502', 8504'-06', 8508'-10', 8524'-30', 8554'-56', 8566'-72', 8590'-92', 8596'-98', 8607'-09', 8620'-28', 8652'-54', 8667'-71', 8692'-96', 8704'-08' w/1-0.49" spf. Total 78 holes. Broke down new perfs w/4422 gal 15% NEFE acid & 156 perf balls. On 12/31/10, fraced Canyon w/175,091# 20/40 & 37,000# 20/40 Super LC sand in X-liked gel. CO after frac to 9162'. Test injectivity from 1/4/11 through 1/8/11.
 On 1/11/11, Set 7" CBP @ 8370' & perfed additional Canyon @ 8204'-08', 8226'-30', 8232'-36', 8240'-43', 8252'-54', 8258'-62', 8264'-72', 8280'-8300', 8314'-16', 8322'-30', 8334'-40', 8354'-56' w/2-0.49" spf. Total 67 holes. Broke down perfs w/8000 gal 15% NEFE acid & 268 perf balls. Test injectivity from 1/13/11 through 2/19/11.

This will be a SWD well in the Canyon as per **SWD-1247A**.

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

SIGNATURE Mike Pippin TITLE Petroleum Engineer - Agent DATE 3/18/11

Type or print name Mike Pippin E-mail address: mike@pippinllc.com PHONE: 505-327-4573

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

Submit 3 Copies To Appropriate District
 Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., 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

Form C-103
 June 19, 2008

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

WELL API NO. 30-015-34148
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name ASPEN 32 STATE COM
8. Well Number #1
9. OGRID Number 255333
10. Pool name or Wildcat SWD Canyon (96148)

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 Other **SWD**

2. Name of Operator
LIME ROCK RESOURCES A, L.P.

3. Address of Operator
c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401

4. Well Location
 Unit Letter J : 1370 feet from the SOUTH line and 1609 feet from the EAST line
 Section 32 Township 17-S Range 28-E NMPM Eddy County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3669' GL

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

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

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

2/19/11: MIRUSU. Drill out CBP @ 8370' & CO to 9390'. Perf additional Canyon @ 8388'-8410', 8418'-37', 8454'-59', 8466'-80', 8495'-8510', 8524'-38', 8554'-57', 8563'-77', 8589'-99', 8606'-10', 8619'-30', 8651'-57', 8665'-72', 8684'-88', 8691'-96', 8703'-08' w/2-0.49" spf. On 2/26/11, landed 7" pkr on 2-7/8" 6.5# J-55 tbg @ 8117'. Released workover rig on 3/1/11. Started injectivity testing. We plan to run 3-1/2" 9.3# L-80 plastic lined SWD tbg w/plastic lined SWD pkr at a later date.

3/7/11: Ran step rate test on SWD well. Max surface pressure was 1750 psi, but no break over. Plan to re-test w/larger pump truck.

3/15/11: Ran step rate test on SWD well. Max surface pressure was 4187 psi, but no break over.

This will be a SWD well in the Canyon as per **SWD-1247A**.

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

SIGNATURE Mike Pippin TITLE Petroleum Engineer - Agent DATE 3/18/11

Type or print name Mike Pippin E-mail address: mike@pippinllc.com PHONE: 505-327-4573

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

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	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 July 17, 2008 1. WELL API NO. 30-015-34148 2. Type of Lease <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN 3. State Oil & Gas Lease No.
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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)	5. Lease Name or Unit Agreement Name ASPEN 32 STATE COM 6. Well Number: 1
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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 SWD-1247A	9. OGRID: 255333
--	------------------

8. Name of Operator: Lime Rock Resources A, L.P.	11. Pool name or Wildcat: SWD Canyon (96148)
---	--

10. Address of Operator: c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401	
---	--

12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	J	32	17-S	28-E		1370	South	1609	East	Eddy
BH:										

13. Date Spudded 11/30/10	14. Date T.D. Reached 12/6/10	15. Date Drilling Rig Released 12/8/10	16. Date Completed (Ready to Produce) 3/1/11	17. Elevations (DF and RKB, RT, GR, etc.): 3669' GR
18. Total Measured Depth of Well 9875'		19. Plug Back Measured Depth 9390'		20. Was Directional Survey Made? Yes
21. Type Electric and Other Logs Run Ind, Micro, ND, CBL, Dual Sp N.				

22. Producing Interval(s), of this completion - Top, Bottom, Name 8204' - 8708' - Canyon	
--	--

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	428'	17-1/2"	400 sx	0'
9-5/8"	40#	2660'	12-1/4"	1100 sx	0'
7"	29# L-80	9457'	8-3/4"	600 sx 50/50 H + 530 sx PVI	0'

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	8117'	8117'

26. Perforation record (interval, size, and number) 8204'-8708'. Total 542 0.49" holes.	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> </thead> <tbody> <tr> <td>8204'-8708'</td> <td>Treated w/4422 gal 15% NEFE acid & fraced w/175,091# 20/40 & 37,000# 12/20 Super LC sand in X-linked gel. & 8000 gal 15% NEFE acid.</td> </tr> </tbody> </table>	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	8204'-8708'	Treated w/4422 gal 15% NEFE acid & fraced w/175,091# 20/40 & 37,000# 12/20 Super LC sand in X-linked gel. & 8000 gal 15% NEFE acid.
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED				
8204'-8708'	Treated w/4422 gal 15% NEFE acid & fraced w/175,091# 20/40 & 37,000# 12/20 Super LC sand in X-linked gel. & 8000 gal 15% NEFE acid.				

28. PRODUCTION

Date First Production READY	Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) SWD	Well Status (<i>Prod. or Shut-in</i>) Shut-in
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Date of Test SWD	Hours Tested	Choke Size	Prod'n For Test Period:	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
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Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)
					0	

29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) SWD	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>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</i>			
Signature	Printed Name	Title: Petroleum Engineer	Date: 3/18/11
E-mail Address: mike@pippinllc.com			

INSTRUCTIONS

ASPEN 32 STATE COM #1 (SWD-1247A)

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
Salado	T. Canyon	T. Ojo Alamo	T. Penn A"
Lamar	T. Strawn 9242'	T. Kirtland	T. Penn. "B"
Bell Canyon	T. Atoka 9696'	T. Fruitland	T. Penn. "C"
Cherry Canyon	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen 1219'	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 1981'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta 3411'	T. McKee	T. Gallup	T. Ignacio Otzte
T. Yeso	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo 5533'	T. Morrow 10,038'	T. Entrada	
T. Wolfcamp 7050'	T. Barnett 10,268'	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C) 8142'	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
 No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

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	From	To	Thickness In Feet	Lithology
			- On File -				