

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. 30-015-37045
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name JEFFERS 32 STATE
8. Well Number #2
9. OGRID Number 255333
10. Pool name or Wildcat Artesia, Glorieta-Yeso (96830)

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 ☐	RECEIVED MAY 18 2010 NMOCD ARTESIA
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 <u>J</u> : <u>1563</u> feet from the <u>SOUTH</u> line and <u>2207</u> feet from the <u>EAST</u> line Section <u>32</u> Township <u>17-S</u> Range <u>28-E</u> NMPM <u>Eddy</u> County <u></u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3670' GL	

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 ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Amend Bottom Hole Location ☒

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

In order to place this well's perfs and bottom hole in a standard location, Lime Rock would like to change the bottom hole location to: 1650' FSL & 2310' FEL Sec. 32 T17S R28E. We plan to take deviation readings every ~100' from the surface casing shoe, ~450', to ~MD2200', at which point the deviated drilling company will be released, and the well drilled vertically to TD. The normal vertical hole deviations will then be taken every 500' and at TD. Attached is the directional drilling company's schematic and drilling detail along with an amended C-102.

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 4/22/10

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

For State Use Only

APPROVED BY: Jaeger B TITLE Geologist DATE 6/22/2010

Conditions of Approval (if any):

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

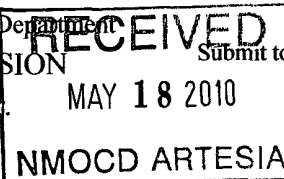
Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-37045	² Pool Code 96830	³ Pool Name Artesia, Glorieta-Yeso
⁴ Property Code 305440	⁵ Property Name JEFFERS 32 STATE	⁶ Well Number 2
⁷ OGRID No. 255333	⁸ Operator Name LIME ROCK RESOURCES A, L.P.	⁹ Elevation 3670' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	32	17-S	28-E		1563'	SOUTH	2207	3AST	EDDY

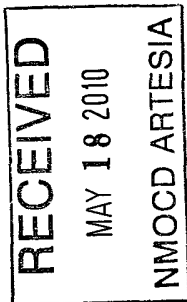
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	32	17-S	28-E		1650	SOUTH	2310	EAST	EDDY

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

	¹⁷ OPERATOR CERTIFICATION 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. Signature: <u>Mike Pippin</u> Date: <u>4/22/10</u> Printed Name: <u>Mike Pippin</u>
	¹⁸ SURVEYOR CERTIFICATION 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. Date of Survey: <u>6/23/08</u> Signature and Seal of Professional Surveyor: <u>Gary Eidson</u> Certificate Number: <u>12641</u>



Lime Rock Resources

Eddy County, NM
Jeffers 32
Jeffer 32 State #2
OH

Plan: Plan #4

Pathfinder X&Y Report

14 May, 2010

PATHFINDER®

A handwritten signature in the bottom right corner of the page.

Project: Eddy County, NM
 Site: Jeffers 32
 Well: Jeffer 32 State #2
 Wellbore: OH
 Plan: Plan #4 (Jeffer 32 State #2/OH)

Lime Rock Resources



WELL DETAILS: Jeffer 32 State #2

Ground Elevation:: 3670.00
 RKB Elevation: WELL @ 3684.00ft (Original Well Elev)
 Rig Name: Original Well Elev

+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	650364.90	542206.80	32° 47' 16.32625 N	104° 11' 45.57400 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1067.75	0.00	0.00	1067.75	0.00	0.00	0.00	0.00	0.00	
3	1401.07	10.00	310.19	1399.38	18.72	-22.16	3.00	310.19	29.01	
4	1809.94	10.00	310.19	1802.04	64.53	-76.40	0.00	0.00	100.01	
5	2209.93	0.00	0.00	2200.00	87.00	-103.00	2.50	180.00	134.83	
6	5209.93	0.00	0.00	5200.00	87.00	-103.00	0.00	0.00	134.83	32 #2 (Alt-BHL)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
32 #2 (Alt-BHL)	5200.00	87.00	-103.00	650451.90	542103.80	Point
32 #2 (BHL)	5200.00	201.00	-2.70	650565.90	542204.10	Point



Azimuths to Grid North
 True North: -0.07°
 Magnetic North: 8.00°

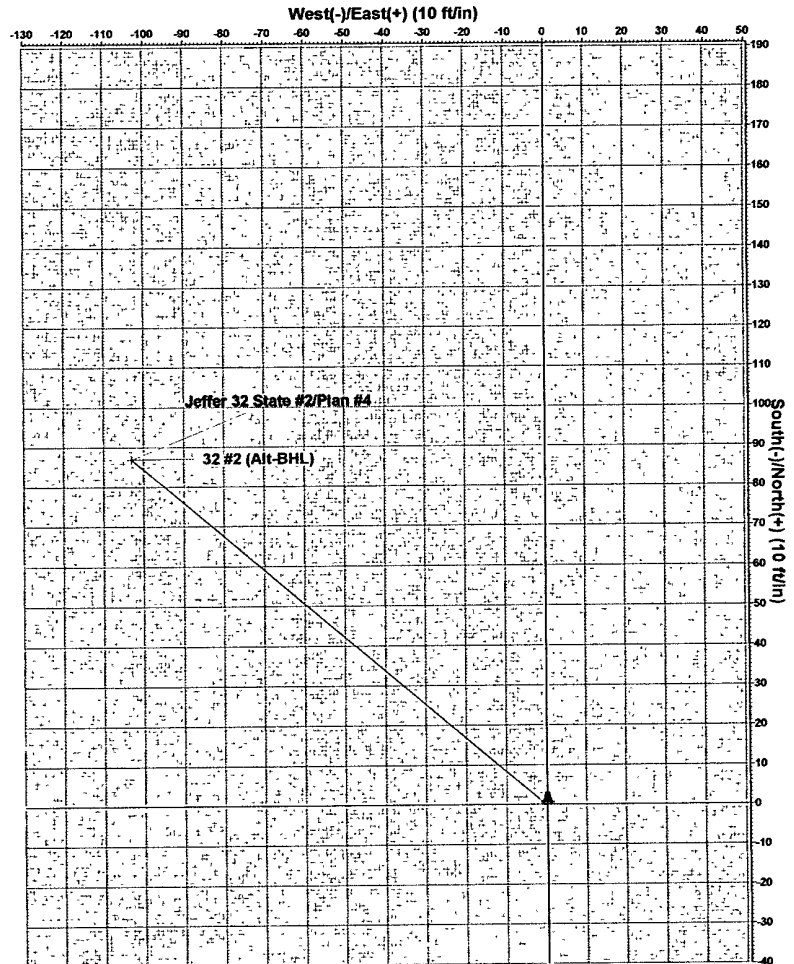
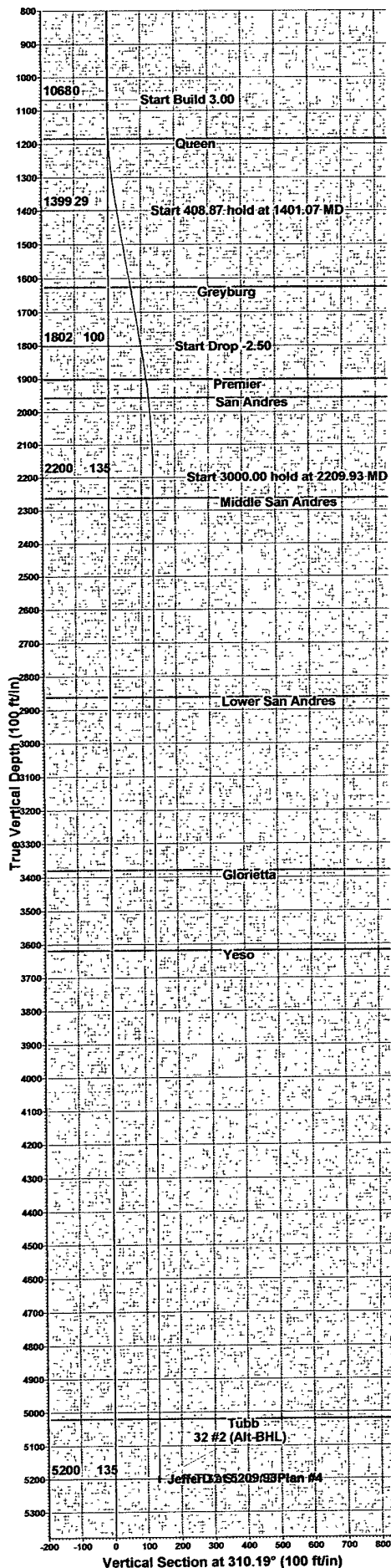
Magnetic Field
 Strength: 49011.6snT
 Dip Angle: 60.63°
 Date: 2010/03/02
 Model: IGRF2010

PROJECT DETAILS: Eddy County, NM
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001

System Datum: Mean Sea Level
 Local North: Grid

CASING DETAILS

TVD	MD	Name	Size
470.00	470.00	8 5/8"	8-5/8



Plan: Plan #4 (Jeffer 32 State #2/OH)
 Created By: John Walker Date: 10:40, May 14 2010

PathFinder
Pathfinder X&Y Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Jeffer 32 State #2
Project:	Eddy County, NM	TVD Reference:	WELL @ 3684.00ft (Original Well Elev)
Site:	Jeffers 32	MD Reference:	WELL @ 3684.00ft (Original Well Elev)
Well:	Jeffer 32 State #2	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Smith Database

Project		Eddy County, NM	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Jeffers 32			
Site Position:		Northing:		650,364.90 ft	
From:		Easting:		542,206.80 ft	
Position Uncertainty:		Slot Radius:		"	
Map				Latitude:	
0.00 ft				32° 47' 16.32625 N	
				Longitude:	
				104° 11' 45.57400 W	
				Grid Convergence:	
				0.07 °	

Well		Jeffer 32 State #2				
Well Position	+N/-S	0.00 ft	Northing:	650,364.90 ft	Latitude:	32° 47' 16.32625 N
	+E/-W	0.00 ft	Easting:	542,206.80 ft	Longitude:	104° 11' 45.57400 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,670.00 ft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/03/02	8.07	60.63	49,012

Design:	Plan #4
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	310.19

Survey Tool Program		Date 2010/05/14		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	5,209.74	Plan #4 (OH)	MWD	MWD - Standard

PathFinder
Pathfinder X&Y Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Jeffer 32 State #2
Project:	Eddy County, NM	TVD Reference:	WELL @ 3684.00ft (Original Well Elev)
Site:	Jeffer 32	MD Reference:	WELL @ 3684.00ft (Original Well Elev)
Well:	Jeffer 32 State #2	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Smith Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
0.00	0.00	0.00	0.00	-3,684.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
100.00	0.00	0.00	100.00	-3,584.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
200.00	0.00	0.00	200.00	-3,484.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
300.00	0.00	0.00	300.00	-3,384.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
400.00	0.00	0.00	400.00	-3,284.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
500.00	0.00	0.00	500.00	-3,184.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
600.00	0.00	0.00	600.00	-3,084.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
700.00	0.00	0.00	700.00	-2,984.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
800.00	0.00	0.00	800.00	-2,884.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
900.00	0.00	0.00	900.00	-2,784.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
1,000.00	0.00	0.00	1,000.00	-2,684.00	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
1,067.75	0.00	0.00	1,067.75	-2,616.25	0.00	0.00	0.00	0.00	650,364.90	542,206.80	
1,100.00	0.97	310.19	1,100.00	-2,584.00	0.18	-0.21	0.27	3.00	650,365.08	542,206.59	
1,200.00	3.97	310.19	1,199.89	-2,484.11	2.95	-3.50	4.58	3.00	650,367.85	542,203.30	
1,300.00	6.97	310.19	1,299.43	-2,384.57	9.10	-10.77	14.10	3.00	650,374.00	542,196.03	
1,401.07	10.00	310.19	1,399.38	-2,284.62	18.72	-22.16	29.01	3.00	650,383.62	542,184.64	
1,500.00	10.00	310.19	1,496.81	-2,187.19	29.81	-35.29	46.19	0.00	650,394.71	542,171.51	
1,600.00	10.00	310.19	1,595.29	-2,088.71	41.01	-48.55	63.56	0.00	650,405.91	542,158.25	
1,700.00	10.00	310.19	1,693.77	-1,990.23	52.22	-61.82	80.92	0.00	650,417.12	542,144.98	
1,809.94	10.00	310.19	1,802.04	-1,881.96	64.53	-76.40	100.01	0.00	650,429.43	542,130.40	
1,900.00	7.75	310.19	1,891.02	-1,792.98	73.50	-87.01	113.90	2.50	650,438.40	542,119.79	
2,000.00	5.25	310.19	1,990.37	-1,693.63	80.80	-95.66	125.22	2.50	650,445.70	542,111.14	
2,100.00	2.75	310.19	2,090.11	-1,593.89	85.30	-100.99	132.19	2.50	650,450.20	542,105.81	
2,209.93	0.00	0.00	2,200.00	-1,484.00	87.00	-103.00	134.83	2.50	650,451.90	542,103.80	
2,300.00	0.00	0.00	2,290.07	-1,393.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
2,400.00	0.00	0.00	2,390.07	-1,293.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
2,500.00	0.00	0.00	2,490.07	-1,193.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	

PathFinder
Pathfinder X&Y Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Jeffer 32 State #2
Project:	Eddy County, NM	TVD Reference:	WELL @ 3684.00ft (Original Well Elev)
Site:	Jeffers 32	MD Reference:	WELL @ 3684.00ft (Original Well Elev)
Well:	Jeffer 32 State #2	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Smith Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V-Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
2,600.00	0.00	0.00	2,590.07	-1,093.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
2,700.00	0.00	0.00	2,690.07	-993.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
2,800.00	0.00	0.00	2,790.07	-893.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
2,900.00	0.00	0.00	2,890.07	-793.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,000.00	0.00	0.00	2,990.07	-693.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,100.00	0.00	0.00	3,090.07	-593.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,200.00	0.00	0.00	3,190.07	-493.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,300.00	0.00	0.00	3,290.07	-393.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,400.00	0.00	0.00	3,390.07	-293.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,500.00	0.00	0.00	3,490.07	-193.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,600.00	0.00	0.00	3,590.07	-93.93	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,700.00	0.00	0.00	3,690.07	6.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,800.00	0.00	0.00	3,790.07	106.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
3,900.00	0.00	0.00	3,890.07	206.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,000.00	0.00	0.00	3,990.07	306.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,100.00	0.00	0.00	4,090.07	406.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,200.00	0.00	0.00	4,190.07	506.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,300.00	0.00	0.00	4,290.07	606.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,400.00	0.00	0.00	4,390.07	706.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,500.00	0.00	0.00	4,490.07	806.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,600.00	0.00	0.00	4,590.07	906.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,700.00	0.00	0.00	4,690.07	1,006.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,800.00	0.00	0.00	4,790.07	1,106.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
4,900.00	0.00	0.00	4,890.07	1,206.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
5,000.00	0.00	0.00	4,990.07	1,306.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
5,100.00	0.00	0.00	5,090.07	1,406.07	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	

PathFinder
Pathfinder X&Y Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Jeffer 32 State #2
Project:	Eddy County, NM	TVD Reference:	WELL @ 3684.00ft (Original Well Elev)
Site:	Jeffers 32	MD Reference:	WELL @ 3684.00ft (Original Well Elev)
Well:	Jeffer 32 State #2	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Smith Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,209.93	0.00	0.00	5,200.00	1,516.00	87.00	-103.00	134.83	0.00	650,451.90	542,103.80	
32 #2 (Alt-BHL) - 32 #2 (BHL)											

PathFinder
Pathfinder X&Y Report



Company:	Lime Rock Resources	Local Co-ordinate Reference:	Well Jeffer 32 State #2
Project:	Eddy County, NM	TVD Reference:	WELL @ 3684.00ft (Original Well Elev)
Site:	Jeffers 32	MD Reference:	WELL @ 3684.00ft (Original Well Elev)
Well:	Jeffer 32 State #2	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	Smith Database

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	
32 #2 (Alt-BHL)		0.00	0.00	5,200.00	87.00	-103.00	650,451.90	542,103.80	32° 47' 17.18848 N 04° 11' 46.77926 W
- plan hits target center									
- Point									
32 #2 (BHL)		0.00	0.00	5,200.00	201.00	-2.70	650,565.90	542,204.10	32° 47' 18.31527 N 04° 11' 45.60257 W
- plan misses target center by 151.84ft at 5209.93ft MD (5200.00 TVD, 87.00 N, -103.00 E)									
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(")	(")
470.00	470.00	8 5/8"	8-5/8	8-5/8

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,911.22	1,902.14	Premier		0.00		
2,272.76	2,262.83	Middle San Andres		0.00		
614.45	614.45	Seven Rivers		0.00		
2,871.57	2,861.64	Lower San Andres		0.00		
5,029.93	5,020.00	Tubb		0.00		
1,630.68	1,625.50	Greyburg		0.00		
3,627.96	3,618.03	Yeso		0.00		
3,389.84	3,379.91	Glorietta		0.00		
1,965.94	1,956.47	San Andres		0.00		
1,184.34	1,184.27	Queen		0.00		
381.65	381.65	Yates		0.00		

Checked By: _____	Approved By: _____	Date: _____
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