

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

MAY 17 2016

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OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-015-40486

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

TERRY 14 C

8. Well Number #2

9. OGRID Number 277558

10. Pool name or Wildcat

Atoka, Glorieta-Yeso (3250)

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 ☐

2. Name of Operator

LIME ROCK RESOURCES II-A, L.P.

3. Address of Operator

c/o Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401

4. Well Location

Unit Letter C : 185 feet from the North line and 2110 feet from the West line

Section 14 Township 18-S Range 26-E NMPM Eddy County

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

3316' 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 ☐

CLOSED-LOOP SYSTEM ☒

OTHER: Change Approved APD to 3 Strings of Casing ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ P AND A ☐

CASING/CEMENT JOB ☐

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.

In order to comply with the anticipated new rules for wells in the Exhibit "A" area of E-42 and not release our contracted drilling rig, Lime Rock Resources II-A, L.P. recommends the following csg & cmt changes to our approved APD:

HOLE SIZE	CSG SIZE	DEPTH	CMT
26"	20"	80'	100
17-1/2"	13-3/8"	400'	400 sx
11" 12 1/4	8-5/8"	900'	400 sx
7-7/8"	5-1/2"	4571'	200 sx lead & 750 sx tail

Our Geology dept. has estimated that the top oil show will be ~950' as per mud logs & the top of the San Andres. If the highest oil show is above 950', the csg will be raised accordingly so as to stay 50' above the highest oil show.

See the attached details, new drilling plan, new C-102, & new deviated drilling plan.

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 5/17/16

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

For State Use Only

APPROVED BY: _____ TITLE "Denied" DATE _____

Conditions of Approval (if any):

ES
5/24/16

**Lime Rock Resources II-A, L.P.
Drilling Plan**

**Terry 14 C #2
185' FNL 2210' FWL
(C) 14-18S-26E
Eddy County, NM**

1. The elevation of the unprepared ground is 3315.6 feet above sea level.
2. The geologic name of the surface formation is Quaternary – Alluvium.
3. A rotary rig will be utilized to drill the well to 4550' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
4. Well will be drilled to a total proposed depth of 4575' MD./ 4550' TVD. inside a 30' X 30' square target inside of 40 acre spacing regulatory quarter-quarter setback distances. The KOP for directional drilling will be at 950'. See directional plan for detail.
5. Estimated tops of geologic markers:

	MD	TVD
Quaternary – Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	NA	NA
Queen	244	244
Grayburg	686	686
Premier	NA	NA
San Andres	955	955
Glorieta	2328	2303
Yeso	2446	2421
Tubb	3875	3850
TD	4575	4550

6. Estimated depths at which anticipated oil, gas, or other mineral bearing formations are expected to be encountered:

	MD	TVD
Yates	NA	NA
7 Rivers	NA	NA
Queen	244	244
Grayburg	686	686
Premier	NA	NA
San Andres	955	955
Glorieta	2328	2303
Yeso	2446	2421
Tubb	3875	3850
TD	4575	4550

7. Proposed Casing and Cement program is as follows:

Type	Hole	Casing	Wt.	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	B	Welded	80	100			Ready Mix
Surface	17-1/2"	13-3/8"	54.5	J-55	ST&C	400	400	14.8	1.35	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl ₂
Intermediate	11"	8-5/8"	24	J-55	ST&C	900	400		1.4	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl ₂
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4575	200	12.8	1.903	(35/65) Poz/CI C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 + 0.2% R-3 + 6% Gel
							750	14.8	1.33	CI H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel

8. Proposed Mud Program is as follows

*FRESH WATER ZONE
400 - 900*

Depth	0-400	400-4425	4421-4575
Mud Type	Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
Properties			
MW	8.4-9.2	9.8-10.1	9.9-10.1
pH	9.0-10.5	10.0-12.0	10.0-12.0
WL	NC	NC	20-30
Vis	28-34	28-29	32-34
MC	NC	NC	<2
Solids	NC	<2%	<3%
Pump Rate	300-500 gpm	375-425 gpm	400-425 gpm
Special		Use Pymers sticks and MF-55 Hi-Vis Sweeps as necessary	Hi Vis Sweeps, add acid and starch as req. Raise Vis to 35 for log.

9. **Pressure Control Equipment:** See Attached Description and diagram of Pressure Control Equipment.

10. **Testing, Logging and Coring Program**

Testing Program: No drill stem tests are anticipated

Electric Logging Program: SGR-DLL-CDL-CNL Quad Combo from 4575 to surf. Csg. SGR-CNL to Surf.

Coring Program: No full or sidewall cores are anticipated.

11. **Potential Hazards:**

No abnormal temperatures or pressures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2013 psi based on 0.44 x TD. The estimated BHT is 125 degrees F.

12. **Duration of Operations:**

Anticipated spud date will be soon after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 10 days. An additional 14 days will be needed to complete the well and to construct surface facilities.

Well Name	Terry 14-C-82	Operator:	Surface Location : 185' FNL and 2210' FWL		GL Elevation	3315.6
S-T-R & Units	(C) 14-185-26E	Line Rock	BH Location : 330' FNL and 2300' FWL		RKB:	3328.4
Well Type	Directional	Resources II-A, L.P.	Productive Targets: Anoka; Glorieta-Yaso		Frac:	
	KOP	950	Target for Vertical	TVD:	4550	
Geology						
	7 Rivers	Queen	Grayburg	Premier	Glorieta	Yaso
TVD	NA	244	686	NA	2303	3850
MD	NA	244	686	NA	2328	3875
						TD
						4550
						4525
						4575

Casing Program									
Type	Hole Size	Casing Size	Weight	Grade	Thread	Depth	Collapse	Burst	Tension
Conductor	26"	20"	91.5	B	Weld	80	NA	NA	NA
Surface	17-1/2"	13-3/8"	54.5	J-55	5T8C	400	1.2	1.18	2
Intermediate	11"	8-5/8"	24	J-55	5T8C	900	1.2	1.18	2
Liner									
Production	7-7/8"	5-1/2"	17	J-55	1T8C	4575	1.18	1.2	2

Cement Program									
Casing	Depth	Slurry Vol, cu	Sacks	Density	Yield	System or Slurry Components			
13-3/8"	400	1 Slurry	400	14.80	1.35	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2			
8-5/8"	900	Lead	400	14.8	1.4	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2			
		Lead							
		Tail							
		Lead							
		Tail							
5-1/2"	4575	Lead	200	12.8	1.903	(35:65) Poz/CI C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 + 0.2% R-			
		Tail	750	14.8	1.33	CI H w/ 0.6% R-3, 0.125% Cello Flake, 2% Gel			

Mud Program									
Depth	0-400		400-4425		4425-4575				
Mud Type	Fresh Water		Brite		Brite w/ Gel & Starch				
Properties									
	MTW	8.5-9.2	9.9-10.2		9.9-10.2				
	pH	10	10-11.5		10-11.5				
	WL	NC	NC		15-20				
	Vib	28-34	30-32		32-35				
	MC	NC	NC		1				
	Solids	NC	<2%		<3%				
Pump Rate	300-350 gpm		350-400 gpm		400-450 GPM				
Special	LCM as Req		Salt Gel & MF as Req'd Pmp HI Vls sweeps to control solids		Salt gel, Acid & MF as req. Pmp HI Vls sweeps to control solids				

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 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

MAY 17 2016

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40486	¹ Pool Code 3250	¹ Pool Name ATOKA, GLORIETA -YESO
¹ Property Code 39343	¹ Property Name TERRY 14C	¹ Well Number 2
¹ OGRID No. 277558	¹ Operator Name LIME ROCK RESOURCES II-A, L.P.	¹ Elevation 3315.6

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	14	18 S	26 E		185	NORTH	2110	WEST	EDDY

" 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
C	14	18 S	26 E		330	NORTH	2300	WEST	EDDY

¹ Dedicated Acres	¹ Joint or Infill	¹ Consolidation Code	¹ 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.

S89°39'50"E 2636.00 FT 2110' 2300' NW CORNER SEC. 14 LAT. = 32.7551234°N LONG. = 104.3606067°W NMSP EAST (FT) N = 638425.97 E = 491615.44 W/4 CORNER SEC. 14 SCALED SW CORNER SEC. 14 LAT. = 32.7405050°N LONG. = 104.3605383°W NMSP EAST (FT) N = 633107.74 E = 491635.08 N89°39'07"W 2618.23 FT		S89°39'50"E 2636.00 FT N/4 CORNER SEC. 14 SCALED SURFACE LOCATION 185' BOTTOM OF HOLE 330' NE CORNER SEC. 14 LAT. = 32.7550409°N LONG. = 104.3434626°W NMSP EAST (FT) N = 638394.97 E = 496285.97 SE CORNER SEC. 14 LAT. = 32.7404702°N LONG. = 104.3433680°W NMSP EAST (FT) N = 633094.16 E = 496914.57 S89°56'57"W 2662.69 FT		" 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 _____ Date _____ Printed Name _____ E-mail Address _____
NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD27) BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST (NAD83) COORDINATES MODIFIED TO THE SURFACE.		" 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. MAY 26 2015 Date of Survey Signature and Seal of Professional Surveyor Certificate Number: FELIXION F. JARAMILLO, PLS 12797 SURVEY NO. 1100A		



**LIME ROCK
RESOURCES**

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 17 2016

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Lime Rock

Eddy, NM (Nad27)

Terry 14C

#2

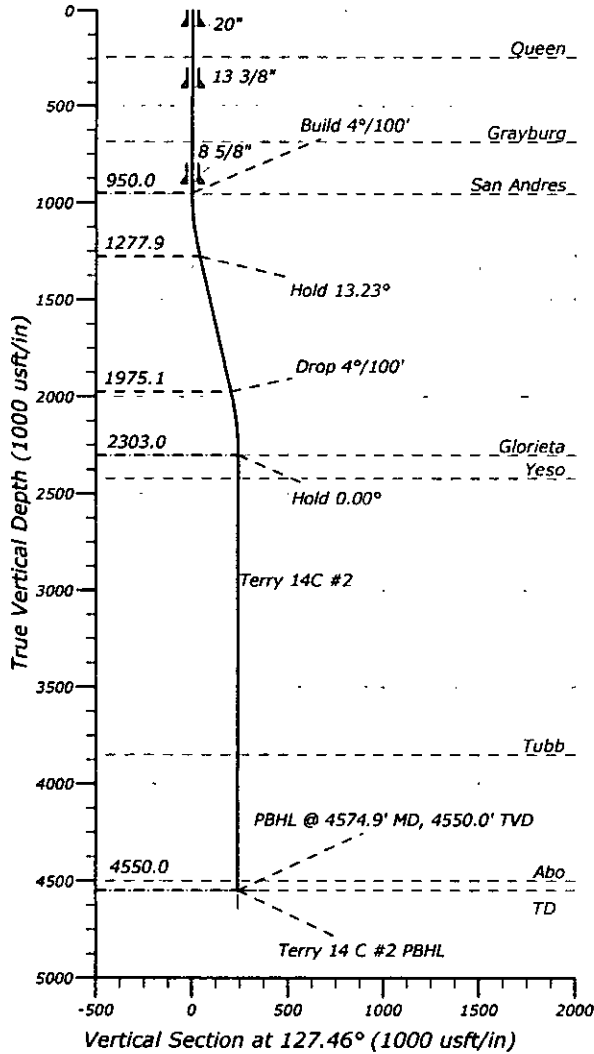
Original Hole

Plan: Plan 2

Standard Planning Report

16 May, 2016





FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
244.0	244.0	Queen
686.0	686.0	Grayburg
955.0	955.0	San Andres
2303.0	2327.9	Glorieta
2421.0	2445.9	Yeso
3850.0	3874.9	Tubb
4500.0	4524.9	Abo
4550.0	4574.9	TD

CASING DETAILS

TVD	MD	Size
80.0	80.0	20
400.0	400.0	13-3/8
900.0	900.0	8-5/8

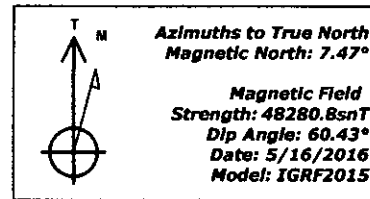
WELL DETAILS: Terry 14C #2

Ground Level: 3315.6 RKB @ 3328.4usft

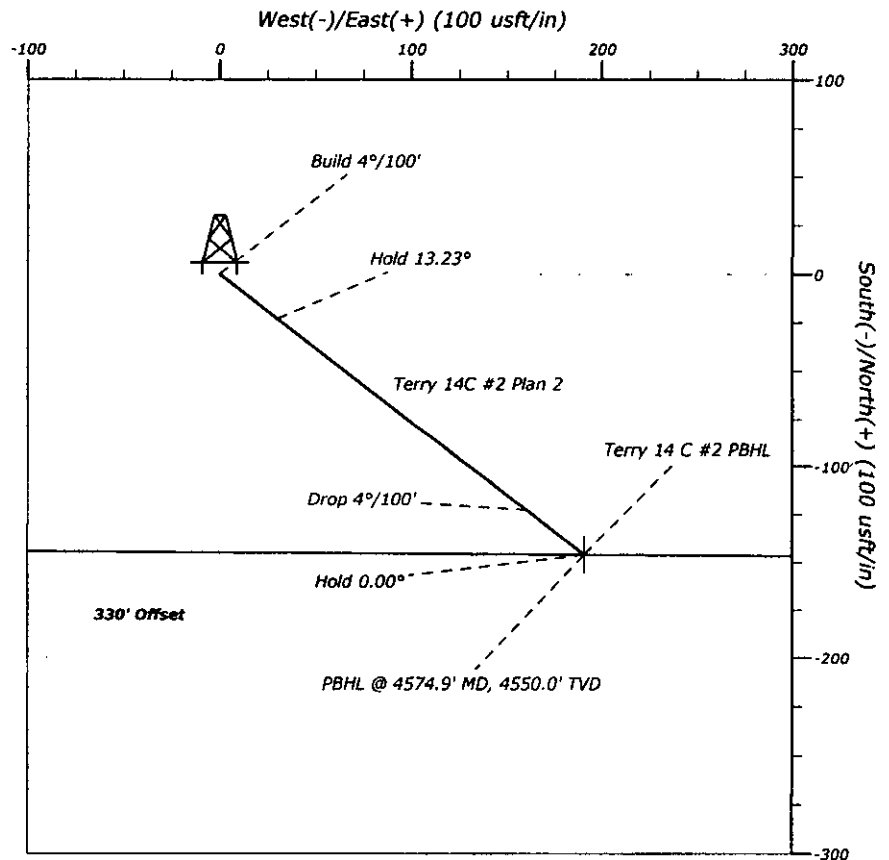
$\pm N/-S$	$\pm E/-W$	Northing	Easting	Latitude	Longitude
0.0	0.0	638228.49	493725.62	32° 45' 16.495 N	104° 21' 13.473 W

PROJECT DETAILS: Eddy, NM (Nad27)

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



To convert a Magnetic Direction to a True Direction, Add 7.47° East
Magnetic North is 7.47° East of True North (Magnetic Declination)



Section Plans

MD	Inc	Azi	TVD	$\pm N/-S$	$\pm E/-W$	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.0	Build 4°/100'
1280.8	13.23	127.46	1277.9	-23.1	30.2	4.00	127.46	38.0	Hold 13.23°
1997.1	13.23	127.46	1975.1	-122.8	160.3	0.00	0.00	202.0	Drop 4°/100'
2327.9	0.00	0.00	2303.0	-146.0	190.5	4.00	180.00	240.0	Hold 0.00°
4574.9	0.00	0.00	4550.0	-146.0	190.5	0.00	0.00	240.0	PBHL @ 4574.9' MD, 4550.0' TVD

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #2
Company:	Lime Rock	TVD Reference:	RKB @ 3328.4usft
Project:	Eddy, NM (Nad27)	MD Reference:	RKB @ 3328.4usft
Site:	Terry 14C	North Reference:	True
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan 2		

Project	Eddy, NM (Nad27)		
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	Terry 14C			
Site Position:	Northing:	638,228.49 usft	Latitude:	32° 45' 16.495 N
From:	Easting:	493,725.62 usft	Longitude:	104° 21' 13.473 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:
				-0.01 °

Well	#2			
Well Position	+N/-S	0.0 usft	Northing:	638,228.49 usft
	+E/-W	0.0 usft	Easting:	493,725.62 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:
				3,315.6 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	5/16/2016	7.47	60.43	48,281

Design	Plan 2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	127.46

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,280.8	13.23	127.46	1,277.9	-23.1	30.2	4.00	4.00	0.00	127.46	
1,997.1	13.23	127.46	1,975.1	-122.8	160.3	0.00	0.00	0.00	0.00	
2,327.9	0.00	0.00	2,303.0	-146.0	190.5	4.00	-4.00	0.00	180.00	
4,574.9	0.00	0.00	4,550.0	-146.0	190.5	0.00	0.00	0.00	0.00	Terry 14 C #2 PBHL

Database: EDM 5000.1 Single User Db
Company: Lime Rock
Project: Eddy, NM (Nad27)
Site: Terry 14C
Well: #2
Wellbore: Original Hole
Design: Plan 2

Local Co-ordinate Reference: Well #2
TVD Reference: RKB @ 3328.4usft
MD Reference: RKB @ 3328.4usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
20"									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
244.0	0.00	0.00	244.0	0.0	0.0	0.0	0.00	0.00	0.00
Queen									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
13 3/8"									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
686.0	0.00	0.00	686.0	0.0	0.0	0.0	0.00	0.00	0.00
Grayburg									
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 4°/100'									
955.0	0.20	127.46	955.0	0.0	0.0	0.0	4.00	4.00	0.00
San Andres									
1,000.0	2.00	127.46	1,000.0	-0.5	0.7	0.9	4.00	4.00	0.00
1,100.0	6.00	127.46	1,099.7	-4.8	6.2	7.8	4.00	4.00	0.00
1,200.0	10.00	127.46	1,198.7	-13.2	17.3	21.8	4.00	4.00	0.00
1,280.8	13.23	127.46	1,277.9	-23.1	30.2	38.0	4.00	4.00	0.00
Hold 13.23°									
1,300.0	13.23	127.46	1,296.6	-25.8	33.7	42.4	0.00	0.00	0.00
1,400.0	13.23	127.46	1,393.9	-39.7	51.8	65.3	0.00	0.00	0.00
1,500.0	13.23	127.46	1,491.2	-53.6	70.0	88.2	0.00	0.00	0.00
1,600.0	13.23	127.46	1,588.6	-67.6	88.2	111.1	0.00	0.00	0.00
1,700.0	13.23	127.46	1,685.9	-81.5	106.4	134.0	0.00	0.00	0.00
1,800.0	13.23	127.46	1,783.3	-95.4	124.5	156.9	0.00	0.00	0.00
1,900.0	13.23	127.46	1,880.6	-109.3	142.7	179.8	0.00	0.00	0.00
1,997.1	13.23	127.46	1,975.1	-122.8	160.3	202.0	0.00	0.00	0.00
Drop 4°/100'									
2,000.0	13.12	127.46	1,978.0	-123.2	160.9	202.6	4.00	-4.00	0.00
2,100.0	9.12	127.46	2,076.1	-135.0	176.2	221.9	4.00	-4.00	0.00
2,200.0	5.12	127.46	2,175.3	-142.5	186.0	234.3	4.00	-4.00	0.00
2,300.0	1.12	127.46	2,275.1	-145.8	190.3	239.7	4.00	-4.00	0.00
2,327.9	0.00	0.00	2,303.0	-146.0	190.5	240.0	4.00	-4.00	0.00
Hold 0.00° - Glorieta									
2,400.0	0.00	0.00	2,375.1	-146.0	190.5	240.0	0.00	0.00	0.00
2,445.9	0.00	0.00	2,421.0	-146.0	190.5	240.0	0.00	0.00	0.00
Yaso									
2,500.0	0.00	0.00	2,475.1	-146.0	190.5	240.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,575.1	-146.0	190.5	240.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,675.1	-146.0	190.5	240.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,775.1	-146.0	190.5	240.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,875.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,000.0	0.00	0.00	2,975.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,075.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,175.1	-146.0	190.5	240.0	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Lime Rock
Project: Eddy, NM (Nad27)
Site: Terry 14C
Well: #2
Wellbore: Original Hole
Design: Plan 2

Local Co-ordinate Reference: Well #2
TVD Reference: RKB @ 3328.4usft
MD Reference: RKB @ 3328.4usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,300.0	0.00	0.00	3,275.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,375.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,475.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,575.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,675.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,775.1	-146.0	190.5	240.0	0.00	0.00	0.00
3,874.9	0.00	0.00	3,850.0	-146.0	190.5	240.0	0.00	0.00	0.00
Tubb									
3,900.0	0.00	0.00	3,875.1	-146.0	190.5	240.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,975.1	-146.0	190.5	240.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,075.1	-146.0	190.5	240.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,175.1	-146.0	190.5	240.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,275.1	-146.0	190.5	240.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,375.1	-146.0	190.5	240.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,475.1	-146.0	190.5	240.0	0.00	0.00	0.00
4,524.9	0.00	0.00	4,500.0	-146.0	190.5	240.0	0.00	0.00	0.00
Abo									
4,574.9	0.00	0.00	4,550.0	-146.0	190.5	240.0	0.00	0.00	0.00

PBHL @ 4574.9' MD, 4550.0' TVD - TD - Terry 14 C #2 PBHL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Terry 14 C #2 PBHL	0.00	0.00	4,550.0	-146.0	190.5	638,082.49	493,916.12	32° 45' 15.051 N	104° 21' 11.242 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
80.0	80.0	20"	20	26
400.0	400.0	13 3/8"	13-3/8	17-1/2
900.0	900.0	8 5/8"	8-5/8	11

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #2
Company:	Lime Rock	TVD Reference:	RKB @ 3328.4usft
Project:	Eddy, NM (Nad27)	MD Reference:	RKB @ 3328.4usft
Site:	Terry 14C	North Reference:	True
Well:	#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan 2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
244.0	244.0	Queen			
686.0	686.0	Grayburg			
955.0	955.0	San Andres			
2,327.9	2,303.0	Glorieta			
2,445.9	2,421.0	Yeso			
3,874.9	3,850.0	Tubb			
4,524.9	4,500.0	Abo			
4,574.9	4,550.0	TD			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
950.0	950.0	0.0	0.0	Build 4°/100'
1,280.8	1,277.9	-23.1	30.2	Hold 13.23°
1,997.1	1,975.1	-122.8	160.3	Drop 4°/100'
2,327.9	2,303.0	-146.0	190.5	Hold 0.00°
4,574.9	4,550.0	-146.0	190.5	PBHL @ 4574.9' MD, 4550.0' TVD