

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, 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-10
June 16, 2008

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A
ZONE**

¹ Operator Name and Address Lime Rock Resources A, L.P. 1111 Bagby Street, Suite 4600 Houston, TX 77002		² OGRID Number 255333
		³ API Number 30 - 015 - 37045
⁴ Property Code 305440	⁵ Property Name JEFFERS 32 STATE	⁶ Well No. 2
⁷ Proposed Pool 1 ARTESIA, GL-YE (96830)		⁸ Proposed Pool 2

7 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	EAST	EDDY

8 Proposed 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		1764	SOUTH	2207	EAST	EDDY

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3,670'
¹⁶ Multiple N	¹⁷ Proposed Depth 4,100'	¹⁸ Formation YESO	¹⁹ Contractor United Drilling	²⁰ Spud Date 5/15/09

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4"	8 5/8"	24#	450'	350 sx C I C	Surface
7 7/8"	5 1/2"	14#	4,100'	350 Poz + 400 Lite	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Drilling operations will utilize a closed loop mud system w/ fresh water during surface hole and brine fluids after. BOP info attached. Plan to drill a 12-1/4" hole to approx. 450', then set & cement 8-5/8" surface casing to 450'. Class C cement will be circulated to the surface.

Drill a 7-7/8" hole to TD of approx. 4,100'. Run OH logs. Set & cement 5-1/2" casing to TD. Cement will be circulated back to surface.

Perforate the Yeso interval. Stimulate as necessary for optimum production. Produce well by flowing or pumping.

Anticipated H2S levels are not expected to be high enough to require a H2S Contingency Plan.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

George R. Smith

Printed name: George R. Smith

Title: Agent W/POA for Lime Rock Resources

E-mail Address: gr.smith130@yahoo.com

Date: 4/21/09

Phone: 575.623.4940

OIL CONSERVATION DIVISION

Approved by:

Jacqui Beaver
Geologist

Title:

Approval Date: 4/24/09

Expiration Date: 4/24/2011

Conditions of Approval Attached ☐

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37045	Pool Code 96830	Pool Name Artesia; Glorieta-Yeso
Property Code 305440	Property Name JEFFERS 32 STATE	Well Number 2
OGRID No. 255333	Operator Name LIME ROCK RESOURCES A, L.P.	Elevation 3670'

Surface Location

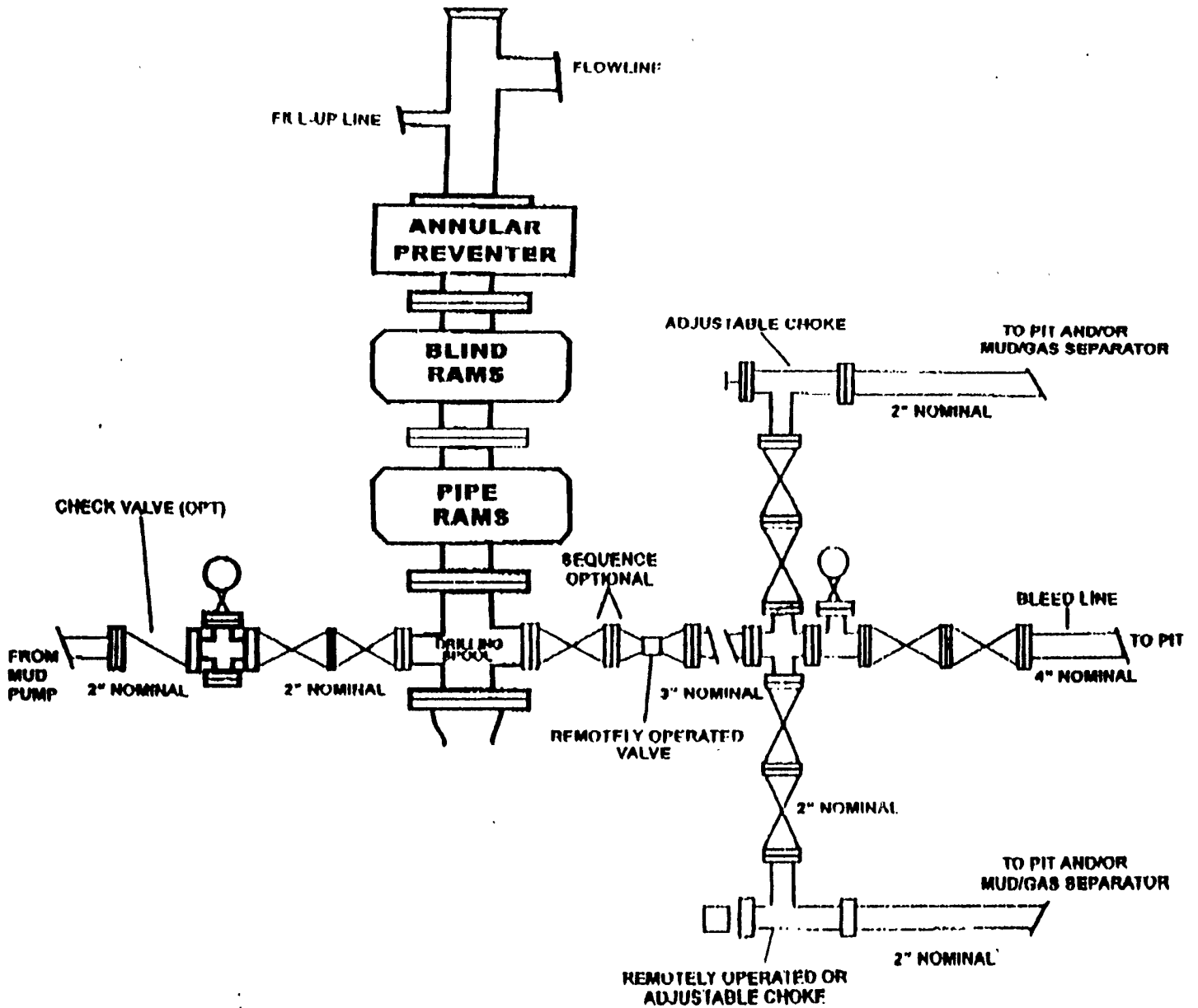
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	32	17-S	28-E		1563	SOUTH	2207	EAST	EDDY

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
J	32	17-S	28-E		1764	SOUTH	2207	EAST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=650364.9 N X=542206.8 E LAT.=32.787869° N LONG.=104.195993° W GRID AZ = 359°13'28" HORIZ DIST = 201.0' BOTTOM HOLE LOCATION Y=650565.9 N X=542204.1 E	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>C. J. Miller</u> 7/14/08 Signature Date <u>C. Tim Miller, VP-Operations</u> Printed Name
	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. JUNE 23, 2008 Date Surveyed Signature & Seal of Professional Surveyor <u>Gary J. Eidson</u> 7/3/08 08-11-1002
	Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239

**BOP DIAGRAM
3000# SYSTEM**



Weatherford[®]

Drilling Services

Proposal

LIME ROCK RESOURCES

JEFFERS 32 STATE #2

EDDY COUNTY, NEW MEXICO

WELL FILE: PLAN 1

NOVEMBER 4, 2008

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

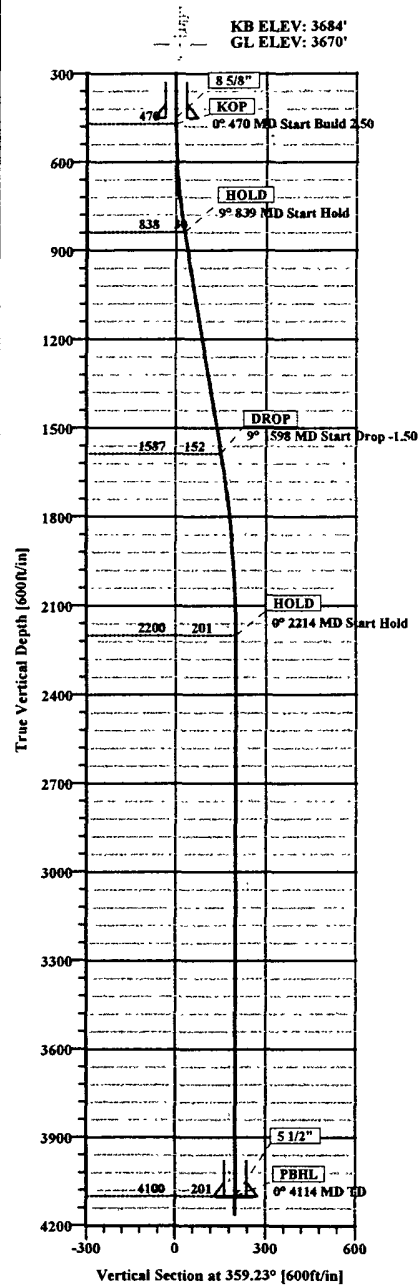
+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com

LIME ROCK RESOURCES

JEFFER 32 STATE #2
EDDY COUNTY, NM



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.23	0.00	0.00	0.00	0.00	0.00	0.00	
2	470.00	0.00	359.23	470.00	0.00	0.00	0.00	0.00	0.00	
3	839.37	9.23	359.23	837.77	29.70	-0.40	2.50	359.23	29.70	
4	1598.48	9.23	359.23	1587.04	151.50	-2.04	0.00	0.00	151.52	
5	2214.10	0.00	359.23	2200.00	201.00	-2.70	1.50	180.00	201.02	
6	4114.10	0.00	359.23	4100.00	201.00	-2.70	0.00	359.23	201.02	PBHL

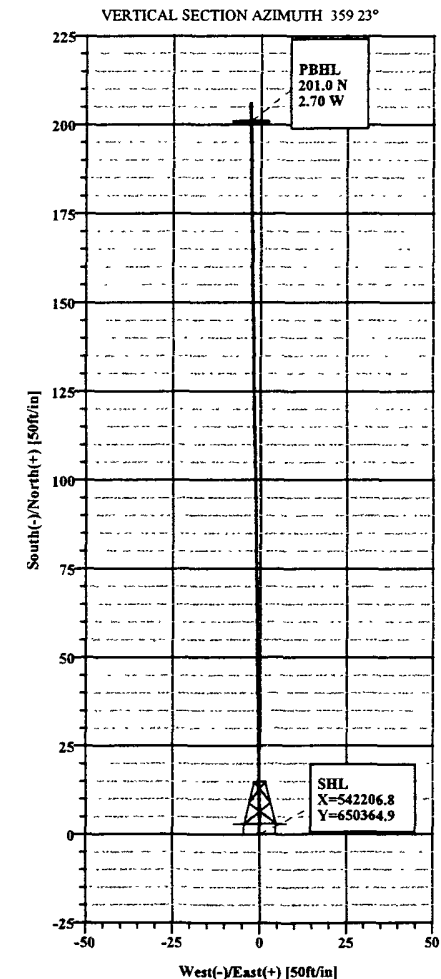
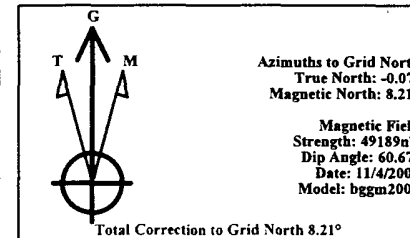
TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	4100.00	201.00	-2.70	650565.90	542204.10	Point

WELL DETAILS							
Name+N/S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
#2	0.00	0.00	650364.90	542206.80	32°47'16.326N	104°11'45.574W	N/A

FIELD DETAILS
Eddy County, NM (NAD 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: bggm2007
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS
Jeffers 32 State #2
Site Centre Northing: 650364.90
Easting: 542206.80
Ground Level: 3670.00
Positional Uncertainty: 0.00
Convergence: 0.07

CASING DETAILS				
No.	TVD	MD	Name	Size
1	450.00	450.00	8 5/8"	8.625
2	4100.00	4114.10	5 1/2"	5.500



Plan: Plan #1 (#2/1)

Created By: Jayme Wilson

Date: 11/4/2008

Checked: _____

Date: _____

Weatherford

Company: Lime Rock Resources			Date: 11/4/2008			Time: 12:53:56			Page: 1		
Field: Eddy County, NM (NAD 27)			Co-ordinate(NE) Reference: Well: #2, Grid North								
Site: Jeffers 32 State #2			Vertical (TVD) Reference: SITE 3684.0								
Well: #2			Section (VS) Reference: Well (0.00N,0.00E,359.23Azi)								
Wellpath: 1			Survey Calculation Method: Minimum Curvature						Db: Sybase		

Plan: Plan #1		Date Composed: 11/4/2008	
		Version: 1	
Principal: Yes		Tied-to: From Surface	

Field: Eddy County, NM (NAD 27)			
Map System: US State Plane Coordinate System 1927		Map Zone: New Mexico, Eastern Zone	
Geo Datum: NAD27 (Clarke 1866)		Coordinate System: Well Centre	
Sys Datum: Mean Sea Level		Geomagnetic Model: bggm2007	

Site: Jeffers 32 State #2			
Site Position:	Northing: 650364 90 ft	Latitude: 32 47 16.326 N	
From: Map	Easting: 542206.80 ft	Longitude: 104 11 45.574 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3670.00 ft		Grid Convergence: 0.07 deg	

Well: #2		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 650364.90 ft	Latitude: 32 47 16.326 N	
+E/-W 0.00 ft	Easting: 542206.80 ft	Longitude: 104 11 45.574 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1		Drilled From: Surface	
		Tie-on Depth: 0.00 ft	
Current Datum: SITE	Height 3684.00 ft	Above System Datum: Mean Sea Level	
Magnetic Data: 11/4/2008		Declination: 8.28 deg	
Field Strength: 49189 nT		Mag Dip Angle: 60.67 deg	
Vertical Section: Depth From (TVD)	+N/-S	+E/-W	Direction
ft	ft	ft	deg
0.00	0.00	0.00	359.23

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	359.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
470.00	0.00	359.23	470.00	0.00	0.00	0.00	0.00	0.00	0.00	
839.37	9.23	359.23	837.77	29.70	-0.40	2.50	2.50	0.00	359.23	
1598.48	9.23	359.23	1587.04	151.50	-2.04	0.00	0.00	0.00	0.00	
2214.10	0.00	359.23	2200.00	201.00	-2.70	1.50	-1.50	0.00	180.00	
4114.10	0.00	359.23	4100.00	201.00	-2.70	0.00	0.00	0.00	359.23	PBHL

Survey											
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	TFO deg	Comment
400.00	0.00	359.23	400.00	0.00	0.00	0.00	0.00	0.00	0.00	359.23	KOP
470.00	0.00	359.23	470.00	0.00	0.00	0.00	0.00	0.00	0.00	359.23	
500.00	0.75	359.23	500.00	0.20	0.00	0.20	2.50	0.00	2.50	0.00	
600.00	3.25	359.23	599.93	3.69	-0.05	3.69	2.50	0.00	2.50	0.00	
700.00	5.75	359.23	699.61	11.53	-0.15	11.53	2.50	0.00	2.50	0.00	
800.00	8.25	359.23	798.86	23.72	-0.32	23.72	2.50	0.00	2.50	0.00	HOLD
839.37	9.23	359.23	837.77	29.70	-0.40	29.70	2.50	0.00	2.50	0.00	
839.97	9.23	359.23	838.37	29.79	-0.40	29.80	0.00	0.00	0.00	0.00	
900.00	9.23	359.23	897.62	39.43	-0.53	39.43	0.00	0.00	0.00	0.00	
1000.00	9.23	359.23	996.32	55.47	-0.75	55.48	0.00	0.00	0.00	0.00	
1100.00	9.23	359.23	1095.03								

Weatherford International Ltd.

PROPOSAL PLAN REPORT



Weatherford

Company: Lime Rock Resources
 Field: Eddy County, NM (NAD 27)
 Site: Jeffers 32 State #2
 Well: #2
 Wellpath: 1

Date: 11/4/2008 Time: 12:53:56 Page: 2
 Co-ordinate(NE) Reference: Well: #2, Grid North
 Vertical (TVD) Reference: SITE 3684.0
 Section (VS) Reference: Well (0.00N,0.00E,359.23Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	TFO deg	Comment
1598.48	9.23	359.23	1587.04	151.50	-2.04	151.52	0.00	0.00	0.00	0.00	DROP
1600.00	9.21	359.23	1588.55	151.75	-2.04	151.76	-1.50	0.00	1.50	180.00	
1700.00	7.71	359.23	1687.45	166.46	-2.24	166.47	-1.50	0.00	1.50	180.00	
1800.00	6.21	359.23	1786.71	178.58	-2.40	178.59	-1.50	0.00	1.50	180.00	
1900.00	4.71	359.23	1886.26	188.09	-2.53	188.11	-1.50	0.00	1.50	180.00	
2000.00	3.21	359.23	1986.02	195.00	-2.62	195.02	-1.50	0.00	1.50	180.00	
2100.00	1.71	359.23	2085.92	199.30	-2.68	199.31	-1.50	0.00	1.50	180.00	
2200.00	0.21	359.23	2185.90	200.97	-2.70	200.99	-1.50	0.00	1.50	180.00	
2214.10	0.00	359.23	2200.00	201.00	-2.70	201.02	-1.50	0.00	1.50	180.00	HOLD
2300.00	0.00	359.23	2285.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
2400.00	0.00	359.23	2385.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
2500.00	0.00	359.23	2485.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
2600.00	0.00	359.23	2585.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
2700.00	0.00	359.23	2685.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
2800.00	0.00	359.23	2785.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
2900.00	0.00	359.23	2885.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3000.00	0.00	359.23	2985.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3100.00	0.00	359.23	3085.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3200.00	0.00	359.23	3185.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3300.00	0.00	359.23	3285.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3400.00	0.00	359.23	3385.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3500.00	0.00	359.23	3485.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3600.00	0.00	359.23	3585.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3700.00	0.00	359.23	3685.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3800.00	0.00	359.23	3785.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
3900.00	0.00	359.23	3885.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
4000.00	0.00	359.23	3985.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
4100.00	0.00	359.23	4085.90	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	
4114.10	0.00	359.23	4100.00	201.00	-2.70	201.02	0.00	0.00	0.00	359.23	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL	-Plan hit target	4100.00	201.00	-2.70	650565.90	542204.10	32 47 18.315 N	104 11 45.603 W

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Annotation

MD ft	TVD ft	
470.00	470.00	KOP
839.97	838.37	HOLD
1598.48	1587.05	DROP
2214.10	2200.00	HOLD
4114.09	4099.99	PBHL

Weatherford International Ltd.
PROPOSAL PLAN REPORT



Weatherford

Company: Lime Rock Resources	Date: 11/4/2008	Time: 12:53:56	Page: 3
Field: Eddy County, NM (NAD 27)	Co-ordinate(NE) Reference:	Well: #2; Grid North	
Site: Jeffers 32 State #2	Vertical (TVD) Reference:	SITE: 3684.0	
Well: #2	Section (VS) Reference:	Well (0.00N,0.00E,359.23Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
450.00	450.00	8.625	12.250	8 5/8"
4114.10	4100.00	5.500	6.000	5 1/2"