

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-101
June 16, 2007

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 Property Code 38724	⁵ Property Name Shrike 10 State Com	³ API Number 30 - 015-39239
⁹ Proposed Pool 1 Willow Lake, SW 404537 DEL SW 96844		⁶ Well No. 2-H
¹⁰ 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
N	10	25-S	28-E		400'	SOUTH	2490'	WEST	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
M	10	25-S	28-E		400'	SOUTH	330'	WEST	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 2923'
¹⁶ Multiple N	¹⁷ Proposed Depth 4828'	¹⁸ Formation DELAWARE	¹⁹ Contractor UNITED DRILLING	²⁰ Spud Date 8-8-11

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 Cl C	Surface
7 7/8"	5 1/2"	14#	3,500'	400 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 and cement 8-5/8" casing to 450'. Class C cement will be circulated back to surface.

Drill 7 7/8" hole to TD of approx. 3500'. Run OH logs. Set 5 1/2" casing to TD and cement will be circulated back to surface. Perforate the San Andres interval. Stimulate as necessary for optimum production. Produce well by flowing or pumping.

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

RECEIVED
JUL 11 2011
NMOGD ARTESIA

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

Signature:

George R. Smith

Printed name

George R. Smith.

Title.

POA Agent for Lime Rock Resources A, L.P.

E-mail Address:

grsmith130@yahoo.com

Date:

March 5, 2009

Phone:

(575) 623-4940

Approved by:

[Signature]

Title:

Geologist

Approval Date:

07/26/11

Expiration Date.

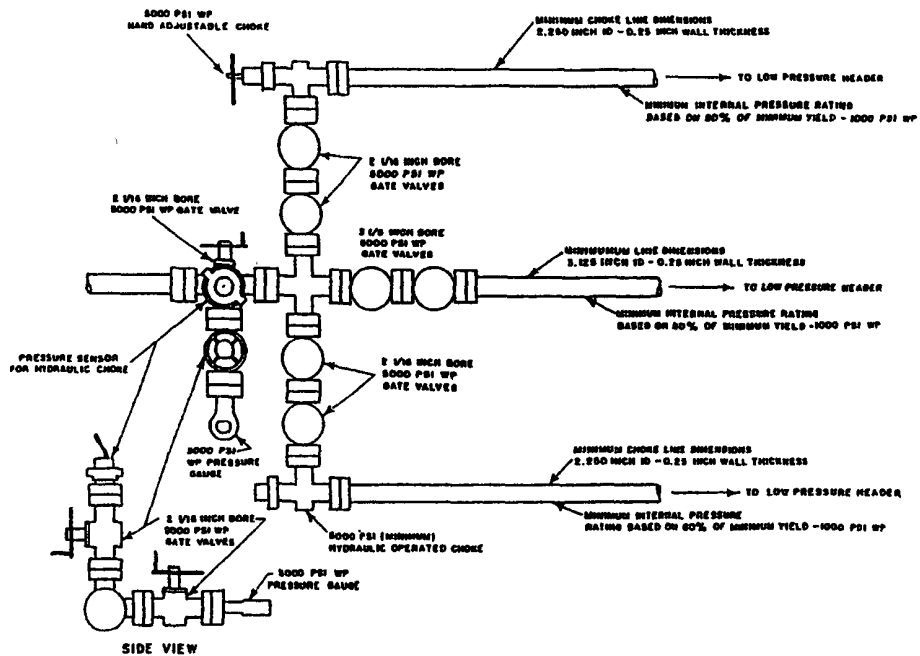
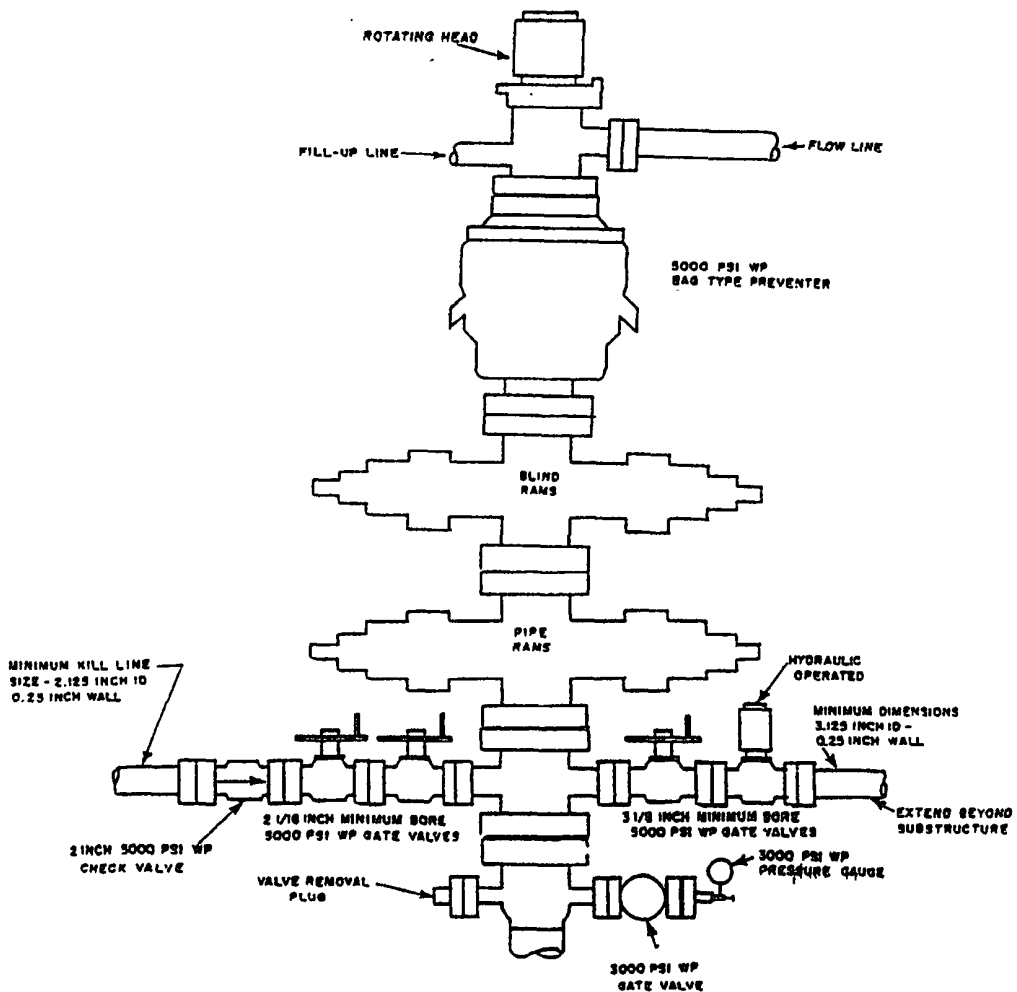
07/26/13

Conditions of Approval Attached

[Signature]

5000 PSI WORKING PRESSURE BLOWOUT PREVENTER STACK

EXHIBIT C-1

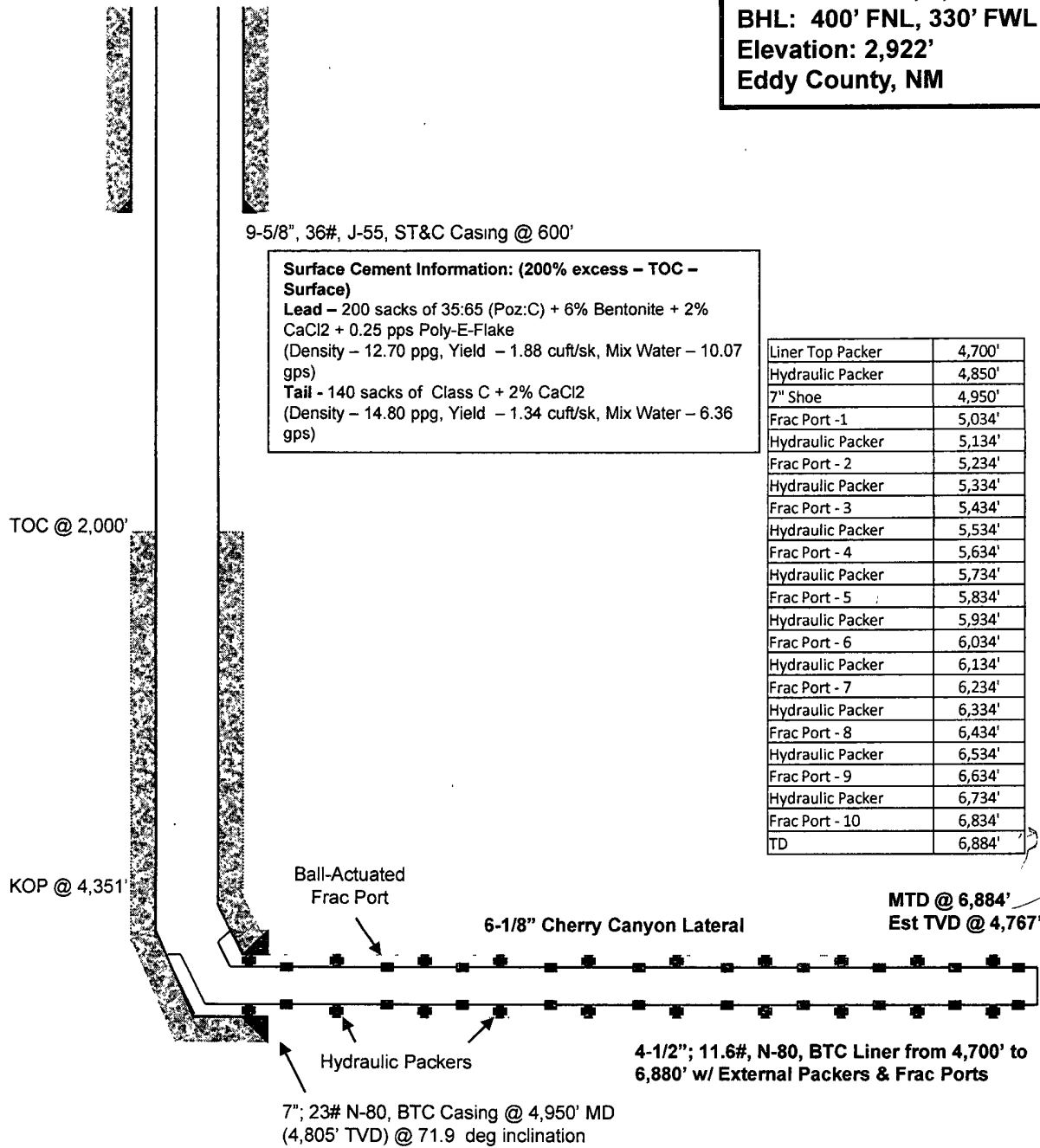


5000 PSI WORKING PRESSURE CHOKE MANIFOLD

EXHIBIT C-2



Shrike 10 Com 2H
Sec 10-25S-28E (N)
SHL: 400' FNL, 2,590' FWL
BHL: 400' FNL, 330' FWL
Elevation: 2,922'
Eddy County, NM



9-5/8", 36#, J-55, ST&C Casing @ 600'

Surface Cement Information: (200% excess – TOC – Surface)
Lead – 200 sacks of 35:65 (Poz:C) + 6% Bentonite + 2% CaCl₂ + 0.25 pps Poly-E-Flake
 (Density – 12.70 ppg, Yield – 1.88 cuft/sk, Mix Water – 10.07 gps)
Tail - 140 sacks of Class C + 2% CaCl₂
 (Density – 14.80 ppg, Yield – 1.34 cuft/sk, Mix Water – 6.36 gps)

Liner Top Packer	4,700'
Hydraulic Packer	4,850'
7" Shoe	4,950'
Frac Port -1	5,034'
Hydraulic Packer	5,134'
Frac Port - 2	5,234'
Hydraulic Packer	5,334'
Frac Port - 3	5,434'
Hydraulic Packer	5,534'
Frac Port - 4	5,634'
Hydraulic Packer	5,734'
Frac Port - 5	5,834'
Hydraulic Packer	5,934'
Frac Port - 6	6,034'
Hydraulic Packer	6,134'
Frac Port - 7	6,234'
Hydraulic Packer	6,334'
Frac Port - 8	6,434'
Hydraulic Packer	6,534'
Frac Port - 9	6,634'
Hydraulic Packer	6,734'
Frac Port - 10	6,834'
TD	6,884'

TOC @ 2,000'

KOP @ 4,351'

Ball-Actuated
Frac Port

6-1/8" Cherry Canyon Lateral

MTD @ 6,884'
Est TVD @ 4,767'

Hydraulic Packers

4-1/2"; 11.6#, N-80, BTC Liner from 4,700' to 6,880' w/ External Packers & Frac Ports

7"; 23# N-80, BTC Casing @ 4,950' MD
(4,805' TVD) @ 71.9 deg inclination

Intermediate Cement Information: (35% excess)
Lead – 230 sacks of 35:65 (Poz:C) + 6% Bentonite + 5% (BWOW) NaCl₂ + 0.25 pps Poly-E-Flake
 (Density – 12.40 ppg, Yield – 2.09 cuft/sk, Mix Water – 11.64 gps) – Top of cement – 2,000'
Tail - 130 sacks of Class C + adds.
 (Density – 14.80 ppg, Yield – 1.33 cuft/sk, Mix Water – 6.28 gps) – 800 linear ft of tail cement

Lime Rock Resources

**Eddy County, NM
Shrike 10 COM 2H
Shrike 10 COM 2H
OH**

Plan: Plan #3

PathFinder X and Y Report

20 May, 2011

PATHFINDER®

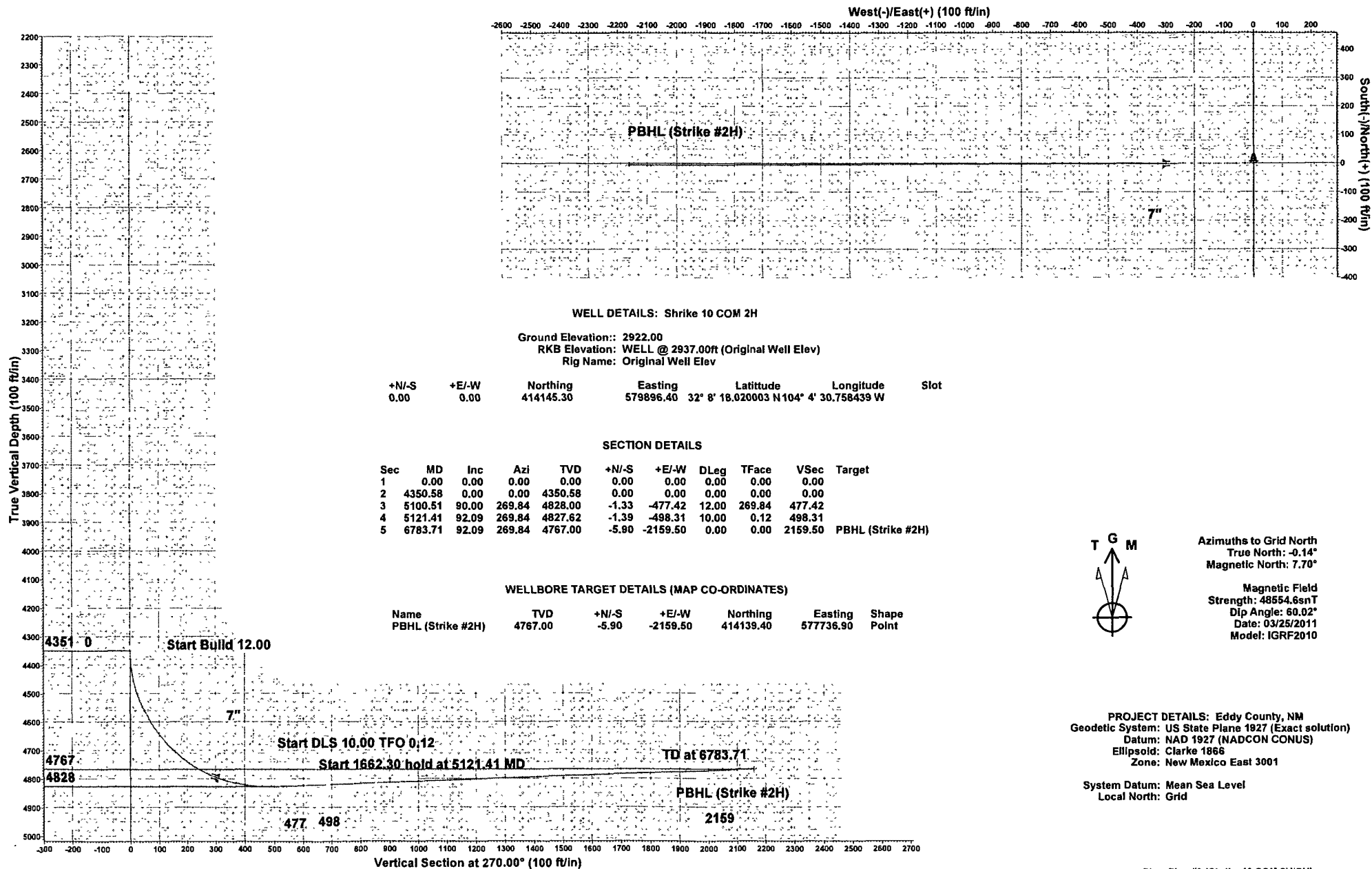
A Schlumberger Company

Lime Rock Resources

Project: Eddy County, NM
 Site: Shrike 10 COM 2H
 Well: Shrike 10 COM 2H
 Wellbore: OH
 Plan: Plan #3 (Shrike 10 COM 2H/OH)



A Schlumberger Company



WELL DETAILS: Shrike 10 COM 2H

Ground Elevation:: 2922.00
 RKB Elevation: WELL @ 2937.00ft (Original Well Elev)
 Rig Name: Original Well Elev

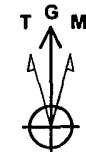
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	414145.30	579896.40	32° 8' 18.020003 N	104° 4' 30.758439 W	

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	4350.58	0.00	0.00	4350.58	0.00	0.00	0.00	0.00	0.00	
3	5100.51	90.00	269.84	4828.00	-1.33	-477.42	12.00	269.84	477.42	
4	5121.41	92.09	269.84	4827.62	-1.39	-498.31	10.00	0.12	498.31	
5	6783.71	92.09	269.84	4767.00	-5.90	-2159.50	0.00	0.00	2159.50	PBHL (Strike #2H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (Strike #2H)	4767.00	-5.90	-2159.50	414139.40	577736.90	Point



Azimuths to Grid North
 True North: -0.14°
 Magnetic North: 7.70°

Magnetic Field
 Strength: 48554.6nT
 Dip Angle: 60.02°
 Date: 03/25/2011
 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

PathFinder A Schlumberger Company
PathFinder X and Y Report



Company: Lime Rock Resources
Project: Eddy County, NM
Site: Shrike 10 COM 2H
Well: Shrike 10 COM 2H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well Shrike 10 COM 2H
TVD Reference: WELL @ 2937.00ft (Original Well Elev)
MD Reference: WELL @ 2937.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 1 PathFinder NWDB

Project: Eddy County, NM

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: Shrike 10 COM 2H

Site Position:		Northing:	414,145.30 ft	Latitude:	32° 8' 18.020003 N
From:	Map	Easting:	579,896.40 ft	Longitude:	104° 4' 30.758439 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.14 °

Well: Shrike 10 COM 2H

Well Position	+N/-S	0.00 ft	Northing:	414,145.30 ft	Latitude:	32° 8' 18.020003 N
	+E/-W	0.00 ft	Easting:	579,896.40 ft	Longitude:	104° 4' 30.758439 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	2,922.00 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	03/25/11	7.84	60.02	48,555

Design: Plan #3

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	270.00

Survey Tool Program Date 05/20/11

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	6,783.71	Plan #3 (OH)	MWD	MWD - Standard

PathFinder A Schlumberger Company
PathFinder X and Y Report



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Survey Calculation Method: Minimum Curvature
Database: 1 PathFinder NWDB

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Buld (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40

PathFinder A Schlumberger Company
PathFinder X and Y Report



Company: Lime Rock Resources
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Well: Shrike 10 COM 2H
Wellbore: OH
Design: Plan #3

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Database: 1 PathFinder NWDB

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Buld (°/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
4,350.58	0.00	0.00	4,350.58	0.00	0.00	0.00	0.00	0.00	414,145.30	579,896.40
4,400.00	5.93	269.84	4,399.91	2.56	-0.01	-2.56	12.00	12.00	414,145.29	579,893.84
4,500.00	17.93	269.84	4,497.57	23.19	-0.06	-23.19	12.00	12.00	414,145.24	579,873.21
4,600.00	29.93	269.84	4,588.81	63.68	-0.18	-63.68	12.00	12.00	414,145.12	579,832.72
4,700.00	41.93	269.84	4,669.63	122.26	-0.34	-122.26	12.00	12.00	414,144.96	579,774.14
4,800.00	53.94	269.84	4,736.50	196.36	-0.55	-196.36	12.00	12.00	414,144.75	579,700.04
4,900.00	65.94	269.84	4,786.51	282.75	-0.79	-282.75	12.00	12.00	414,144.51	579,613.65
5,000.00	77.94	269.84	4,817.46	377.65	-1.05	-377.65	12.00	12.00	414,144.25	579,518.75
5,100.00	89.94	269.84	4,828.00	476.91	-1.33	-476.91	12.00	12.00	414,143.97	579,419.49
5,100.51	90.00	269.84	4,828.00	477.42	-1.33	-477.42	12.00	12.00	414,143.97	579,418.98

PathFinder A Schlumberger Company
PathFinder X and Y Report



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5,121.41	92.09	269.84	4,827.62	498.31	-1.39	-498.31	10.00	10.00	414,143.91	579,398.09
5,200.00	92.09	269.84	4,824.75	576.85	-1.60	-576.85	0.00	0.00	414,143.70	579,319.55
5,300.00	92.09	269.84	4,821.11	676.78	-1.88	-676.78	0.00	0.00	414,143.42	579,219.62
5,400.00	92.09	269.84	4,817.46	776.72	-2.15	-776.72	0.00	0.00	414,143.15	579,119.68
5,500.00	92.09	269.84	4,813.81	876.65	-2.42	-876.65	0.00	0.00	414,142.88	579,019.75
5,600.00	92.09	269.84	4,810.17	976.58	-2.69	-976.58	0.00	0.00	414,142.61	578,919.82
5,700.00	92.09	269.84	4,806.52	1,076.52	-2.96	-1,076.52	0.00	0.00	414,142.34	578,819.88
5,800.00	92.09	269.84	4,802.87	1,176.45	-3.23	-1,176.45	0.00	0.00	414,142.07	578,719.95
5,900.00	92.09	269.84	4,799.23	1,276.38	-3.50	-1,276.38	0.00	0.00	414,141.80	578,620.02
6,000.00	92.09	269.84	4,795.58	1,376.32	-3.77	-1,376.32	0.00	0.00	414,141.53	578,520.08
6,100.00	92.09	269.84	4,791.93	1,476.25	-4.05	-1,476.25	0.00	0.00	414,141.25	578,420.15
6,200.00	92.09	269.84	4,788.29	1,576.18	-4.32	-1,576.18	0.00	0.00	414,140.98	578,320.22
6,300.00	92.09	269.84	4,784.64	1,676.12	-4.59	-1,676.12	0.00	0.00	414,140.71	578,220.28
6,400.00	92.09	269.84	4,780.99	1,776.05	-4.86	-1,776.05	0.00	0.00	414,140.44	578,120.35
6,500.00	92.09	269.84	4,777.35	1,875.98	-5.13	-1,875.98	0.00	0.00	414,140.17	578,020.42
6,600.00	92.09	269.84	4,773.70	1,975.91	-5.40	-1,975.91	0.00	0.00	414,139.90	577,920.49
6,700.00	92.09	269.84	4,770.05	2,075.85	-5.67	-2,075.85	0.00	0.00	414,139.63	577,820.55
6,783.71	92.09	269.84	4,767.00	2,159.50	-5.90	-2,159.50	0.00	0.00	414,139.40	577,736.90

PathFinder A Schlumberger Company
PathFinder X and Y Report



Company: Lime Rock Resources
Project: Eddy County, NM
Site: Shrike 10 COM 2H
Well: Shrike 10 COM 2H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well Shrike 10 COM 2H
TVD Reference: WELL @ 2937.00ft (Original Well Elev)
MD Reference: WELL @ 2937.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 1 PathFinder NWDB

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL (Strike #2H)	0.00	0.00	4,767.00	-5.90	-2,159.50	414,139.40	577,736.90	32° 8' 18.012140 N	04° 4' 55.874629 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(")	(")	
4,798.00	7"		7	7-1/2	

Checked By: _____ Approved By: _____ Date: _____

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator LIME ROCK RES A LP OGRID # 256333
Well Name & # SHAIKE 10 STATE COM #2H Surface Type (F)(S)(P)
Location: UL N, Sect 10, Township 25s, RNG 25e, Sub-surface Type (F)(S)(P)
M 10 25-25

A. Date C101 rec'd C101 reviewed

B. 1. Check mark, Information is OK on Forms:

OGRID BONDING , PROP CODE WELL # SIGNATURE

2. Inactive Well list as of: 7/26/11 # wells 002, # Inactive wells 6

a. District Grant APD but see number of inactive wells:

No letter required ; Sent Letter to Operator , to Santa Fe

3. Additional Bonding as of: 7/26/11

a. District Denial because operator needs addition bonding:

No Letter required ; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required ; Sent Letter to Operator , To Santa Fe

C. C102 YES , NO , Signature

1. Pool WILLOW LAKE, DEL, SW Code 96835

a. Dedicated acreage 80, What Units MN

b. SUR. Location Standard : Non-Standard Location PA Standard

c. Well shares acres: Yes , No # of wells plus this well #

2. 2nd. Operator in same acreage, Yes , No

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes No

a. Dedicated acreage 80, What Units MN

b. Bottomhole Location Standard Non-Standard Bottomhole

4. Downhole Commingle: Yes , No

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No

D. Blowout Preventer Yes No

E. H2S Yes , No , need

F. C144 Pit Registration Yes , No , need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No NSL #

2. Non-Standard Proration: Yes , No NSP #

3. Simultaneous Dedication: Yes , No SD #

Number of wells Plus #

4. Injection order Yes , No ; PMX # or WFX #

5. SWD order Yes , NO ; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date

API # 30-015-39239

8. Reviewers