

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

5. Lease Serial No.

NM-90947

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

THAMES 31 FEDERAL 1

9. API Well No.

30-015-33139

10. Field and Pool, or Exploratory Area

COTTONWOOD CREEK-WOLFCAMP

11. County or Parish, State

EDDY
NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

2. Name of Operator

LCX Energy, LLC.

3a. Address

110 North Marienfeld, Suite 200 Midland TX 79701

3b. Phone No (include area code)

(432)262-4014

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SURFACE: 760' fsl & 760' FEL UL: P, Sec: 31, T: 16S, R:
25E

BHL 760' FNL & 860' FEL Sec: 31, T: 16S, R: 25E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Set CIBP,
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Cut new window
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	for horizontal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

11/18/07 - 11/20/07 - MIRU. Called BLM @ 08:30. RIH open ended w/2 7/8" tubing to top of window @ 4633'. Loaded hole w/210 bbls fresh water and circulated well. Cont RIH to Top Of Fish @ 5288'. Pump 130 bbls w/reverse unit to load the hole. R/U Schlumberger equipment. Test lines, pump 75 bbls to get back circulation, Mix and pump 47 bbls cmt @ 14.8 ppg, spot w/22 bbls. water. POOH w/21 stands tubing. Reverse out to clean up tubing, "Didn't see any cmt in water we reversed out." POOH w/rest of tubing. Shut well in and shut down for day.. WOC. M/U 6 1/8" bit on 2 7/8" tubing & RIH to tag top of cmt @ 5028'. Called out Schlumberger to respot cmt. R/U Cmt equipment, safety meeting and test lines. Pump water and load hole w/87 bbls, mix and pump 47 bbls cmt @ 14.8 ppg, spot w/20.5 bbls. Water. POOH to 3800'. Reverse out cmt, got back about 1 bbl. Cmt. R/D Schlumberger equipment & POOH w/tubing and bit. Shut well in and shut down for Thanksgiving weekend.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Jenifer Sorley

Title Regulatory Analyst

Signature

Date 03/26/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

Accepted for record - NMOCD

A Gyrodata Directional Survey

FIELD COPY NOT DEFINITIVE
for

L C X ENERGY

Location: L& W WELL SERVICE, EDDY COUNTY, NEW MEXICO
Lease: THAMES 31 FEDERAL Well: # 1, 2-7/8 DRILLPIPE

Job Number: MD1107GW392

Run Date: 11/27/2007 4:36:29 PM

Surveyor: JAMES KING

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.874030 deg. N Longitude: 104.518310 deg. E

Azimuth Correction:

Gyro: 0.10000 deg East to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

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Job Number: MD1107GW392

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.0	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 - 4347 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2-7/8 TUBING							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO GROUND LEVEL							

200.00	0.16	333.40	0.3	0.08	200.00	0.3 333.4	0.25 N 0.13 W
400.00	0.40	92.41	0.5	0.25	400.00	0.7 42.7	0.48 N 0.44 E
600.00	0.17	154.07	0.2	0.18	600.00	1.3 81.9	0.18 N 1.27 E
800.00	0.26	147.02	-0.5	0.05	799.99	1.7 105.8	0.47 S 1.65 E
1000.00	0.28	126.70	-1.1	0.05	999.99	2.5 116.4	1.13 S 2.28 E
1200.00	0.24	104.60	-1.5	0.05	1199.99	3.4 116.4	1.53 S 3.08 E
1400.00	0.15	144.51	-1.9	0.08	1399.99	4.1 117.0	1.85 S 3.64 E
1600.00	0.19	120.48	-2.2	0.04	1599.99	4.7 118.8	2.24 S 4.08 E
1800.00	0.21	148.97	-2.7	0.05	1799.99	5.3 120.9	2.72 S 4.55 E
2000.00	0.17	157.19	-3.3	0.03	1999.99	5.9 124.3	3.31 S 4.85 E
2200.00	0.12	120.33	-3.7	0.05	2199.99	6.3 125.6	3.68 S 5.15 E
2400.00	0.20	137.19	-4.0	0.05	2399.98	6.9 126.0	4.05 S 5.58 E
2600.00	0.12	185.80	-4.5	0.08	2599.98	7.4 128.0	4.52 S 5.80 E
2800.00	0.08	144.16	-4.9	0.04	2799.98	7.6 129.7	4.86 S 5.86 E
3000.00	0.17	123.27	-5.1	0.05	2999.98	8.0 129.7	5.13 S 6.19 E
3200.00	0.09	123.62	-5.4	0.04	3199.98	8.5 129.3	5.39 S 6.58 E
3400.00	0.16	105.64	-5.6	0.04	3399.98	8.9 128.5	5.56 S 6.99 E
3600.00	0.22	118.98	-5.8	0.04	3599.98	9.6 127.4	5.82 S 7.60 E
3800.00	0.22	116.41	-6.2	0.01	3799.98	10.3 126.7	6.18 S 8.28 E
4000.00	0.36	97.05	-6.4	0.09	3999.98	11.3 124.8	6.42 S 9.24 E

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L C XENERGY

Location: L& W WELL SERVICE, EDDY COUNTY, NEW MEXICO

Lease: THAMES 31 FEDERAL Well: # 1, 2-7/8 DRILLPIPE

Job Number: MD1107GW392

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.		HORIZONTAL COORDINATES feet	
4200.00	0.72	102.14	-6.8	0.18	4199.97	13.0	121.4	6.76 S	11.10 E
4347.00	0.95	89.25	-6.9	0.20	4346.95	14.9	117.7	6.94 S	13.22 E

Final Station Closure: Distance: 14.93 ft Az: 117.71 deg.

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Job Number: MD1107GW392

STAT NO.	MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	HIGH SIDE TOOLFACE deg.	GYRO TOOL FACE deg.
0	0.00	0.00	0.00	0.00R	0.10

0 - 4347 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2-7/8 TUBING
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO GROUND LEVEL
GYRO TOOLFACE EQUALS TO DIRECTION OF KEYWAY INSIDE UBHO SUB
UBHO SUB PROVIDED BY WEATHERFORD WHIPSTOCK HAND

SEATS

60	4347.00	0.95	89.39	158.31L	291.08
61	4347.00	0.95	89.22	159.24L	289.98
62	4347.00	0.95	89.51	159.33L	290.18
63	4347.00	0.95	89.29	161.76L	287.53
64	4347.00	0.95	90.43	138.31L	312.13
FINAL SET SHOT					
65	4380.00	1.04	91.19	140.65L	310.54 ← WHIPSTOCK ORIENTATION