

OCD-ARTESIA

Form 3160-4
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other			5. Lease Serial No. N-90947		
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator LCX ENERGY, LLC			7. Unit or CA Agreement Name and No.		
3. Address 110 N. MARIENFELD, SUITE 200 MIDLAND, TX 79701			3a. Phone No. (include area code) 432-687-1575		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 660' FSL & 1880' FWL, SEC 31, T16S, R25E At top prod. interval reported below 823.6' FSL & 1857.5 FWL, SEC 31, T16S, R25E At total depth 661' FNL & 1898' FWL, SEC 31, T16S, R25E			9. AFI Well No. 30-015-34313 0051		
14. Date Spudded 11/13/2005			15. Date T.D. Reached 12/15/2005		
16. Date Completed 01/11/2006 ☐ D & A ☒ Ready to Prod.			17. Elevations (DF, RKB, RT, GL)* 3626' GR		
18. Total Depth: MD 8725' TVD 4843'			19. Plug Back T.D.: MD 8702' TVD 4843'		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NO LOGS RUN IN WELL.		
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy)					

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8'	48#	SURF	391'		405 C:POZ		SURFACE	
12 1/4"	9 5/8"	36#	391'	1317'		850 C:POZ		SURFACE	
8 3/4"	5 1/2"	17#	1317'	5199'		800 C:POZ		SURFACE	
7 7/8"	5 1/2"	17#	5199'	8726'		300 CL C		594' CAL	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	4730'	4730'	5 1/2"					

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	5100'	8628'	5100' - 8628'	.42"	220	
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
5100' - 8628'	19.674 GAL 15% HCL 22.192 BBL CO2 FOAMED SLICK WATER W/ 200,000# 100 MESH WHITE SAND, 200,000# 20/40 BROWN SAND.

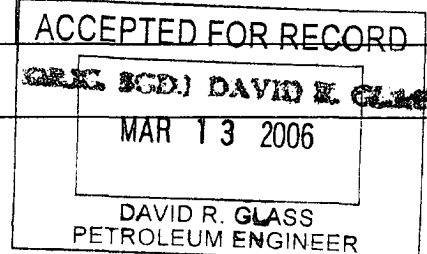
27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/20/2006	02/19/2006	24	→	0	1627	5	-	.671	FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
OPEN	SI 950	0	→	0	1627	5	-		PRODUCING

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

*(See instructions and spaces for additional data on page 2)



28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
SAN ANDRES	555				
GLORIETA	1710				
TUBB	3170				
ABO	4000				
WOLFCAMP	4892				

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
☐ Core Analysis
☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) KANICIA DAVID

Title REGULATORY ANALYST

Signature

Kanicia David

Date

03/06/2006

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.

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

Form C-102
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34313	² Pool Code	³ Pool Name COTTONWOOD CREEK: WOLFCAMP
⁴ Property Code	⁵ Property Name 1625 FEDERAL COM	⁶ Well Number 311
⁷ OGRID No.	⁸ Operator Name LCX Energy, LLC	⁹ Elevation 3626' GR

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
N	32	16S	25E		660'	SOUTH	1880'	WEST	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
C	31	16S	25E		661'	NORTH	1898'	WEST	EDDY
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature KANICIA DAVID Printed Name REGULATORY ANALYST KANICIA@EERONLINE.COM Title and E-mail Address 3/6/06 Date
	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. 3/6/06 Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

Survey Report

Report Date: December 15, 2005	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: LCX Energy LLC.	Vertical Section Azimuth: 0.004°
Field: Eddy County, NM Nad 83	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: 1625 Fed Com #311 / 1625 ST Com #311	TVD Reference Datum: RKB
Well: 1625 Fed Com #311	TVD Reference Elevation: 0.0 ft relative to
Borehole: 1625 Fed Com #311	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 8.719°
Survey Name / Date: 1625 Fed Com #311_surveys / December 1, 2005	Total Field Strength: 49491.565 nT
Tort / AHD / DDI / ERD ratio: 140.344° / 4033.93 ft / 6.004 / 0.824	Magnetic Dip: 60.754°
Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: December 01, 2005
Location Lat/Long: N 32 52 26.047, W 104 31 38.322	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 681713.900 ftUS, E 481783.800 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.10529016°	Total Corr Mag North -> Grid North: +8.824°
Grid Scale Factor: 0.99991315	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	4400.00	1.21	134.75	4399.30	-51.92	-51.92	-22.30	56.51	203.24	0.00	123.70M
	4408.00	1.40	123.70	4407.30	-52.03	-52.03	-22.16	56.55	203.06	3.94	73.70M
	4439.00	1.20	73.70	4438.29	-52.15	-52.15	-21.53	56.42	202.43	3.59	11.60M
	4470.00	3.50	11.60	4469.27	-51.14	-51.13	-21.03	55.29	202.35	10.08	3.90M
	4501.00	7.70	3.90	4500.11	-48.14	-48.13	-20.70	52.39	203.27	13.73	-9.65G
	4533.00	12.20	0.30	4531.62	-42.61	-42.61	-20.53	47.30	205.73	14.19	-6.21G
	4564.00	16.70	358.60	4561.64	-34.88	-34.88	-20.62	40.52	210.60	14.58	-5.45G
	4596.00	20.80	357.50	4591.93	-24.60	-24.60	-20.98	32.34	220.46	12.86	0.00G
	4626.00	25.10	357.50	4619.55	-12.92	-12.92	-21.49	25.08	238.99	14.33	0.63G
	4657.00	29.60	357.60	4647.08	1.31	1.31	-22.10	22.14	273.39	14.52	-0.78G
	4689.00	33.70	357.50	4674.31	18.08	18.08	-22.82	29.11	308.39	12.81	9.36G
	4719.00	37.80	358.60	4698.65	35.59	35.59	-23.41	42.60	326.67	13.83	10.18G
	4750.00	41.90	359.70	4722.45	55.45	55.45	-23.69	60.30	336.86	13.42	12.50G
	4781.00	45.10	0.70	4744.93	76.78	76.79	-23.61	80.34	342.91	10.56	2.39G
	4813.00	48.70	0.90	4766.79	100.14	100.15	-23.29	102.82	346.91	11.26	0.00G
	4844.00	52.50	0.90	4786.47	124.09	124.09	-22.91	126.19	349.54	12.26	-1.36G
	4875.00	56.00	0.80	4804.58	149.24	149.24	-22.54	150.94	351.41	11.29	-2.61G
	4906.00	59.80	0.60	4821.05	175.50	175.50	-22.22	176.90	352.78	12.27	3.19G
	4938.00	63.00	0.80	4836.36	203.59	203.59	-21.87	204.76	353.87	10.02	3.38G
	4969.00	66.10	1.00	4849.68	231.57	231.57	-21.43	232.56	354.71	10.02	-1.58G
	5001.00	69.50	0.90	4861.77	261.19	261.19	-20.94	262.03	355.42	10.63	3.32G
	5032.00	72.80	1.10	4871.79	290.52	290.52	-20.43	291.24	355.98	10.66	5.05G
	5063.00	76.10	1.40	4880.10	320.37	320.38	-19.78	320.99	356.47	10.69	1.41G
	5094.00	80.10	1.50	4886.49	350.69	350.69	-19.01	351.21	356.90	12.91	-4.75G
	5126.00	84.90	1.10	4890.66	382.40	382.40	-18.29	382.84	357.26	15.05	-13.57G
	5157.00	87.80	0.40	4892.64	413.33	413.33	-17.89	413.72	357.52	9.62	0.00G
	5182.00	89.00	0.40	4893.33	438.32	438.32	-17.71	438.68	357.69	4.80	12.53G
	5213.00	90.80	0.80	4893.39	469.32	469.32	-17.39	469.64	357.88	5.95	0.00G
	5244.00	91.00	0.80	4892.90	500.31	500.31	-16.96	500.60	358.06	0.65	108.43G
	5307.00	90.90	1.10	4891.86	563.29	563.30	-15.91	563.52	358.38	0.50	-158.20G
	5369.00	90.40	0.90	4891.15	625.28	625.28	-14.83	625.46	358.64	0.87	30.96G
	5431.00	91.40	1.50	4890.18	687.26	687.26	-13.53	687.39	358.87	1.88	-90.00G
	5492.00	91.40	1.10	4888.69	748.22	748.23	-12.15	748.32	359.07	0.66	-172.40G
	5555.00	89.90	0.90	4887.97	811.21	811.21	-11.05	811.28	359.22	2.40	23.49G
	5618.00	92.20	1.90	4886.82	874.17	874.18	-9.51	874.23	359.38	3.98	-11.30G
	5680.00	92.70	1.80	4884.17	936.09	936.09	-7.51	936.12	359.54	0.82	135.02G
	5743.00	92.50	2.00	4881.31	998.99	998.99	-5.42	999.00	359.69	0.45	-156.04G
	5805.00	91.60	1.60	4879.09	1060.92	1060.92	-3.48	1060.92	359.81	1.59	-165.97G

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
	5868.00	91.20	1.50	4877.55	1123.87	1123.87	-1.77	1123.87	359.91	0.65	-168.69G
	5930.00	90.70	1.40	4876.53	1185.84	1185.84	-0.21	1185.84	359.99	0.82	-165.96G
	5993.00	89.50	1.10	4876.42	1248.83	1248.83	1.17	1248.83	0.05	1.96	36.87G
	6055.00	89.90	1.40	4876.74	1310.81	1310.81	2.52	1310.82	0.11	0.81	-45.00G
	6118.00	90.40	0.90	4876.58	1373.80	1373.80	3.79	1373.80	0.16	1.12	18.43G
	6180.00	91.00	1.10	4875.82	1435.79	1435.79	4.87	1435.79	0.19	1.02	113.20G
	6243.00	90.70	1.80	4874.88	1498.76	1498.76	6.46	1498.77	0.25	1.21	-120.46G
	6305.00	89.70	0.10	4874.67	1560.75	1560.75	7.49	1560.76	0.27	3.18	0.00G
	6369.00	90.30	0.10	4874.67	1624.75	1624.75	7.60	1624.76	0.27	0.94	-150.95G
	6432.00	89.40	359.60	4874.83	1687.74	1687.74	7.44	1687.76	0.25	1.63	18.44G
	6495.00	90.60	0.00	4874.83	1750.74	1750.74	7.22	1750.76	0.24	2.01	-90.00G
	6559.00	90.60	359.90	4874.16	1814.74	1814.74	7.16	1814.75	0.23	0.16	-116.56G
	6622.00	90.30	359.30	4873.67	1877.74	1877.73	6.72	1877.75	0.21	1.06	-146.31G
	6685.00	89.70	358.90	4873.67	1940.73	1940.73	5.73	1940.74	0.17	1.14	-135.00G
	6748.00	89.60	358.80	4874.05	2003.71	2003.71	4.47	2003.72	0.13	0.22	-26.56G
	6813.00	90.00	358.60	4874.28	2068.70	2068.70	2.99	2068.70	0.08	0.69	64.98G
	6876.00	90.70	0.10	4873.89	2131.69	2131.69	2.28	2131.69	0.06	2.63	-26.56G
	6939.00	91.30	359.80	4872.80	2194.68	2194.68	2.22	2194.68	0.06	1.06	-44.98G
	7003.00	91.80	359.30	4871.06	2258.65	2258.65	1.72	2258.65	0.04	1.10	-56.29G
	7066.00	92.00	359.00	4868.98	2321.61	2321.61	0.79	2321.61	0.02	0.57	-167.47G
	7129.00	91.10	358.80	4867.27	2384.58	2384.58	-0.42	2384.58	359.99	1.46	0.00G
	7193.00	92.40	358.80	4865.32	2448.53	2448.53	-1.76	2448.53	359.96	2.03	-175.92G
	7256.00	91.00	358.70	4863.45	2511.49	2511.49	-3.14	2511.49	359.93	2.23	-110.55G
	7319.00	90.70	357.90	4862.51	2574.45	2574.45	-5.01	2574.46	359.89	1.36	110.55G
	7384.00	90.40	358.70	4861.89	2639.42	2639.42	-6.93	2639.43	359.85	1.31	9.46G
	7447.00	91.00	358.80	4861.12	2702.40	2702.40	-8.31	2702.41	359.82	0.97	158.20G
	7511.00	90.50	359.00	4860.28	2766.38	2766.38	-9.54	2766.40	359.80	0.84	-172.87G
	7574.00	89.70	358.90	4860.17	2829.37	2829.37	-10.69	2829.39	359.78	1.28	7.12G
	7638.00	91.30	359.10	4859.61	2893.35	2893.36	-11.81	2893.38	359.77	2.52	135.01G
	7702.00	91.10	359.30	4858.27	2957.33	2957.33	-12.70	2957.36	359.75	0.44	101.31G
	7764.00	91.00	359.80	4857.14	3019.32	3019.32	-13.19	3019.35	359.75	0.82	-172.88G
	7828.00	90.20	359.70	4856.47	3083.32	3083.32	-13.47	3083.35	359.75	1.26	69.44G
	7892.00	90.50	0.50	4856.08	3147.31	3147.32	-13.36	3147.34	359.76	1.33	44.99G
	7955.00	91.50	1.50	4854.98	3210.29	3210.30	-12.26	3210.32	359.78	2.24	163.30G
	8018.00	90.50	1.80	4853.88	3273.26	3273.26	-10.44	3273.28	359.82	1.66	161.57G
	8082.00	90.20	1.90	4853.49	3337.22	3337.22	-8.38	3337.23	359.86	0.49	8.74G
	8145.00	91.50	2.10	4852.55	3400.18	3400.18	-6.18	3400.18	359.90	2.09	170.54G
	8209.00	90.90	2.20	4851.21	3464.12	3464.12	-3.78	3464.12	359.94	0.95	49.39G
	8272.00	91.50	2.90	4849.89	3527.04	3527.04	-0.98	3527.04	359.98	1.46	75.95G
	8335.00	91.60	3.30	4848.19	3589.93	3589.93	2.43	3589.93	0.04	0.65	-26.55G
	8397.00	92.00	3.10	4846.24	3651.80	3651.80	5.89	3651.80	0.09	0.72	-162.25G
	8461.00	89.50	2.30	4845.40	3715.72	3715.72	8.90	3715.73	0.14	4.10	-135.00G
	8524.00	89.10	1.90	4846.17	3778.67	3778.67	11.21	3778.69	0.17	0.90	-14.04G
	8588.00	89.90	1.70	4846.73	3842.64	3842.63	13.22	3842.66	0.20	1.29	10.01G
	8652.00	91.60	2.00	4845.89	3906.59	3906.59	15.29	3906.62	0.22	2.70	0.00G
	8674.00	92.10	2.00	4845.18	3928.57	3928.57	16.06	3928.60	0.23	2.27	0.00G
	8725.00	92.50	2.00	4843.14	3979.50	3979.50	17.83	3979.54	0.26	0.78	0.00G

TD

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
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