

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. NM-101081					
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				8. Lease Name and Well No. 1625 FEDERAL COM #271					
3a. Phone No. (include area code) 432-682-1575				9. AFI Well No. 30-015-34195					
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 200' FNL & 700' FWL, SEC 27, T16S, R25E At top prod. interval reported below 714' FWL & 696' FNL, SEC 27, T16S, R25E At total depth 693' FWL & 661' FSL, SEC 27, T16S, R25E				10. Field and Pool, or Exploratory Cottonwood Creek - Wolfcamp					
11. Sec., T., R., M., on Block and Survey or Area				12. County or Parish EDDY					
13. State NM				14. Date Spudded 07/16/2005					
15. Date T.D. Reached 08/24/2005				16. Date Completed 09/09/2005 ☐ D & A ☒ Ready to Prod.					
17. Elevations (DF, RKB, RT, GL)* 3499' GL				18. Total Depth: MD 9212' TVD 5003'					
19. Plug Back T.D.: MD 9167' TVD				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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	48#	SURF	384'		510 CL C		SURF	
12 1/4"	9 5/8"	36#	SURF	1200'		770 CL C		SURF	
8 3/4"	7"	26#	SURF	5111'		600 CL C		SURF	
6 1/8"	4 1/2"	11.6#	4326'	9212'		500 CL H		4326'	
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"	4731'	4731'							
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) WOLFCAMP		5250	9167'	5250 - 9147		4"	200		
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval			Amount and Type of Material						
5250' - 9147'			18000 GALS 15% HCL, 17287 BBLS SLICK WATER, 160K 100 MESH WHITE SAND, 160K 20/40 BROWN SAND						
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/07/2005	12/10/2005	24	→		1437	8 3/4"		.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 350		→		1425	8 3/4"		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	
			→						

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

ACCEPTED FOR RECORD
JAN 26 2006
GARY GOURLEY
PETROLEUM ENGINEER

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	660				
GLORIETA	1762				
TUBB	3248				
ABO	3930				
WOLFCAMP	5004				

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 01/13/2006

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 30-015-34195	² Pool Code	³ Pool Name COTTONWOOD CREEK - WOLFCAMP
⁴ Property Code	⁵ Property Name 1625 FEDERAL COM	⁶ Well Number 271
⁷ OGRID No.	⁸ Operator Name LCX Energy, LLC	⁹ Elevation 3499'

¹⁰ Surface Location

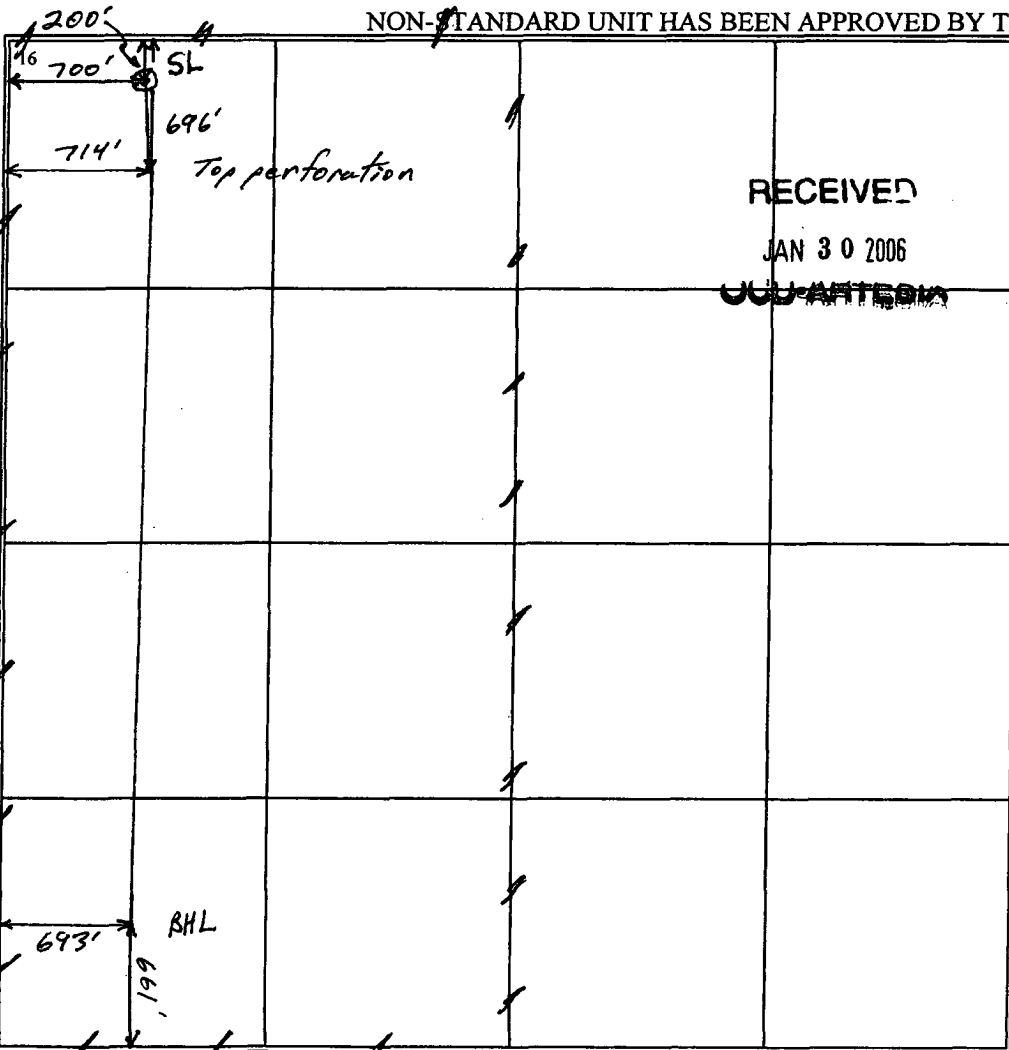
UL or lot no. D	Section 27	Township 16S	Range 25E	Lot. Idn	Feet from the 200	North/South line NORTH	Feet from the 700	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. M	Section 27	Township 16S	Range 25E	Lot. Idn	Feet from the 660	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY
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¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

	RECEIVED JAN 30 2006 OIL CONSERVATION DIVISION	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Kanicia David</u> Signature <u>Kanicia David</u> Printed Name <u>Regulatory Agent eesonline.com</u> Title and E-mail Address <u>1/13/06</u> 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. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number
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Survey Report

Report Date: August 24, 2005	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Endeavor Energy	Vertical Section Azimuth: 179.050°
Field: Eddy County, NM Nad 83	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Fed-Com 1625 #271 / Fed-Com 1625 #271	TVD Reference Datum: RKB
Well: Fed-Com 1625 #271	TVD Reference Elevation: 0.0 ft relative to
Borehole: Fed-Com 1625 #271	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 8.738°
Survey Name / Date: FC 1625-271_surveys / August 9, 2005	Total Field Strength: 49543.938 nT
Tort / AHD / DDI / ERD ratio: 192.471° / 4442.46 ft / 6.196 / 0.885	Magnetic Dip: 60.794°
Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: August 08, 2005
Location Lat/Long: N 32 54 1.882, W 104 28 46.627	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 691375.500 ftUS, E 496439.600 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.07945964°	Total Corr Mag North -> Grid North: +8.817°
Grid Scale Factor: 0.99991140	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	4569.00	0.87	113.62	4568.27	23.26	-24.33	-64.12	68.58	249.22	0.00	154.58M
	4584.00	0.99	154.58	4583.27	23.43	-24.49	-63.96	68.48	249.05	4.40	163.10M
	4632.00	9.90	163.10	4631.00	27.78	-28.82	-62.58	68.89	245.27	18.59	24.16G
	4661.00	17.00	173.60	4659.19	34.41	-35.43	-61.38	70.87	240.00	25.79	27.30G
	4690.00	22.60	180.90	4686.47	44.21	-45.22	-60.99	75.93	233.44	21.07	-18.04G
	4744.00	31.60	175.40	4734.50	68.75	-69.76	-60.02	92.02	220.71	17.28	-28.50G
	4802.00	41.10	167.80	4781.18	102.71	-103.63	-54.76	117.21	207.85	18.10	-11.29G
	4858.00	52.30	165.00	4819.53	142.38	-143.15	-45.10	150.09	197.49	20.32	-12.80G
	4916.00	62.10	162.50	4850.92	189.33	-189.88	-31.42	192.46	189.40	17.28	16.31G
	4973.00	66.50	163.90	4875.63	238.73	-239.04	-16.59	239.61	183.97	8.03	-150.36G
	5030.00	65.70	163.40	4898.72	288.97	-289.04	-1.92	289.05	180.38	1.62	88.32G
	5087.00	66.10	171.10	4922.03	339.85	-339.74	9.55	339.87	178.39	12.35	21.81G
	5144.00	74.60	174.60	4941.18	393.16	-392.95	16.18	393.28	177.64	15.99	8.03G
	5201.00	83.80	175.90	4951.85	448.97	-448.69	20.80	449.17	177.35	16.29	42.49G
	5258.00	88.40	180.10	4955.73	505.80	-505.49	22.78	506.00	177.42	10.92	-66.81G
	5315.00	89.00	178.70	4957.02	562.78	-562.47	23.37	562.96	177.62	2.67	-135.02G
	5372.00	88.20	177.90	4958.42	619.76	-619.43	25.06	619.94	177.68	1.98	180.00G
	5429.00	87.30	177.90	4960.65	676.70	-676.35	27.15	676.89	177.70	1.58	45.01G
	5471.00	88.60	179.20	4962.16	718.67	-718.30	28.21	718.86	177.75	4.38	-170.54G
	5528.00	88.00	179.10	4963.85	775.65	-775.27	29.06	775.82	177.85	1.07	-12.81G
	5584.00	90.20	178.60	4964.73	831.64	-831.25	30.18	831.80	177.92	4.03	15.94G
	5641.00	90.90	178.80	4964.18	888.63	-888.23	31.47	888.79	177.97	1.28	-170.54G
	5698.00	88.50	178.40	4964.48	945.63	-945.21	32.87	945.78	178.01	4.27	105.96G
	5756.00	88.30	179.10	4966.10	1003.60	-1003.17	34.13	1003.75	178.05	1.25	0.00G
	5813.00	88.40	179.10	4967.74	1060.58	-1060.14	35.03	1060.72	178.11	0.18	95.73G
	5870.00	88.30	180.10	4969.38	1117.55	-1117.12	35.42	1117.68	178.18	1.76	34.39G
	5926.00	90.20	181.40	4970.11	1173.52	-1173.10	34.69	1173.62	178.31	4.11	90.00G
	5983.00	90.20	181.70	4969.91	1230.46	-1230.08	33.15	1230.53	178.46	0.53	-18.43G
	6040.00	91.40	181.30	4969.12	1287.40	-1287.06	31.66	1287.45	178.59	2.22	-26.54G
	6098.00	92.60	180.70	4967.09	1345.33	-1345.01	30.65	1345.36	178.69	2.31	-44.96G
	6155.00	92.90	180.40	4964.36	1402.25	-1401.94	30.10	1402.27	178.77	0.74	29.00G
	6212.00	93.80	180.90	4961.03	1459.13	-1458.84	29.45	1459.14	178.84	1.81	95.69G
	6269.00	93.70	181.90	4957.30	1515.96	-1515.70	28.06	1515.96	178.94	1.76	-146.06G
	6326.00	87.30	177.60	4956.80	1572.91	-1572.66	28.31	1572.91	178.97	13.52	-172.44G
	6383.00	84.30	177.20	4960.98	1629.73	-1629.44	30.89	1629.73	178.91	5.31	0.00G
	6439.00	85.60	177.20	4965.91	1685.48	-1685.15	33.62	1685.49	178.86	2.32	-153.51G
	6497.00	85.40	177.10	4970.46	1743.27	-1742.90	36.49	1743.28	178.80	0.39	16.37G
	6554.00	87.10	177.60	4974.19	1800.12	-1799.72	39.12	1800.14	178.75	3.11	25.02G
	6610.00	88.60	178.30	4976.29	1856.07	-1855.64	41.12	1856.09	178.73	2.96	0.00G
	6667.00	88.80	178.30	4977.58	1913.05	-1912.60	42.81	1913.08	178.72	0.35	18.43G
	6724.00	89.40	178.50	4978.47	1970.04	-1969.57	44.40	1970.07	178.71	1.11	135.00G

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)
	6780.00	89.30	178.60	4979.11	2026.03	-2025.55	45.82	2026.07	178.70	0.25	128.67G
	6836.00	88.90	179.10	4979.99	2082.02	-2081.53	46.95	2082.06	178.71	1.14	-153.45G
	6893.00	88.30	178.80	4981.38	2139.00	-2138.50	47.99	2139.04	178.71	1.18	26.57G
	6950.00	90.90	180.10	4981.78	2196.00	-2195.49	48.54	2196.03	178.73	5.10	106.69G
	7006.00	90.60	181.10	4981.05	2251.97	-2251.48	47.95	2251.99	178.78	1.86	-163.62G
	7064.00	87.20	180.10	4982.16	2309.93	-2309.46	47.34	2309.95	178.83	6.11	99.49G
	7121.00	87.10	180.70	4984.99	2366.84	-2366.39	46.95	2366.85	178.86	1.07	-29.73G
	7178.00	87.80	180.30	4987.53	2423.77	-2423.33	46.45	2423.77	178.90	1.41	-34.70G
	7235.00	89.10	179.40	4989.07	2480.74	-2480.31	46.60	2480.74	178.92	2.77	180.00G
	7292.00	88.80	179.40	4990.12	2537.73	-2537.29	47.19	2537.73	178.93	0.53	45.00G
	7349.00	89.00	179.60	4991.21	2594.72	-2594.28	47.69	2594.72	178.95	0.50	116.57G
	7405.00	88.90	179.80	4992.24	2650.70	-2650.27	47.99	2650.71	178.96	0.40	45.00G
	7462.00	91.50	182.40	4992.04	2707.66	-2707.25	46.89	2707.66	179.01	6.45	-145.01G
	7519.00	90.50	181.70	4991.04	2764.57	-2764.20	44.85	2764.57	179.07	2.14	-150.26G
	7577.00	88.40	180.50	4991.60	2822.52	-2822.19	43.74	2822.53	179.11	4.17	47.73G
	7634.00	89.40	181.60	4992.69	2879.48	-2879.17	42.69	2879.48	179.15	2.61	-72.65G
	7691.00	89.90	180.00	4993.04	2936.45	-2936.16	41.90	2936.46	179.18	2.94	-165.97G
	7747.00	87.90	179.50	4994.12	2992.43	-2992.14	42.14	2992.44	179.19	3.68	-154.60G
	7804.00	85.80	178.50	4997.25	3049.34	-3049.04	43.14	3049.35	179.19	4.08	68.19G
	7860.00	86.20	179.50	5001.16	3105.20	-3104.90	44.11	3105.21	179.19	1.92	-153.50G
	7917.00	85.60	179.20	5005.23	3162.06	-3161.75	44.76	3162.07	179.19	1.18	-90.00G
	7974.00	85.60	178.40	5009.60	3218.89	-3218.57	45.95	3218.90	179.18	1.40	-34.67G
	8032.00	86.90	177.50	5013.40	3276.75	-3276.40	48.02	3276.76	179.16	2.72	23.95G
	8089.00	87.80	177.90	5016.03	3333.67	-3333.30	50.30	3333.68	179.14	1.73	0.00G
	8146.00	88.80	177.90	5017.72	3390.64	-3390.23	52.39	3390.64	179.11	1.75	6.34G
	8203.00	89.70	178.00	5018.47	3447.62	-3447.19	54.43	3447.62	179.10	1.59	180.00G
	8260.00	89.10	178.00	5019.07	3504.61	-3504.15	56.42	3504.61	179.08	1.05	100.32G
	8317.00	88.90	179.10	5020.06	3561.59	-3561.12	57.86	3561.59	179.07	1.96	0.00G
	8374.00	90.80	179.10	5020.21	3618.59	-3618.11	58.75	3618.59	179.07	3.33	14.92G
	8431.00	92.30	179.50	5018.67	3675.57	-3675.09	59.45	3675.57	179.07	2.72	-108.44G
	8488.00	92.20	179.20	5016.43	3732.52	-3732.04	60.10	3732.52	179.08	0.55	-153.44G
	8545.00	91.40	178.80	5014.64	3789.50	-3789.00	61.09	3789.50	179.08	1.57	-135.01G
	8603.00	91.20	178.60	5013.33	3847.48	-3846.97	62.41	3847.48	179.07	0.49	20.83G
	8660.00	93.30	179.40	5011.09	3904.43	-3903.92	63.40	3904.43	179.07	3.94	0.00G
	8717.00	93.90	179.40	5007.51	3961.32	-3960.80	64.00	3961.32	179.07	1.05	-5.17G
	8774.00	95.00	179.30	5003.09	4018.14	-4017.62	64.64	4018.14	179.08	1.94	-174.96G
	8831.00	91.60	179.00	4999.81	4075.04	-4074.52	65.49	4075.04	179.08	5.99	-160.56G
	8888.00	89.90	178.40	4999.06	4132.03	-4131.49	66.78	4132.03	179.07	3.16	-45.00G
	8945.00	90.00	178.30	4999.11	4189.03	-4188.47	68.42	4189.03	179.06	0.25	-151.39G
	9001.00	88.90	177.70	4999.65	4245.02	-4244.43	70.37	4245.02	179.05	2.24	161.57G
	9058.00	88.60	177.80	5000.89	4301.99	-4301.37	72.61	4301.99	179.03	0.55	68.20G
	9115.00	88.80	178.30	5002.18	4358.96	-4358.33	74.55	4358.96	179.02	0.94	66.80G
	9163.00	89.10	179.00	5003.06	4406.95	-4406.30	75.68	4406.95	179.02	1.59	0.00G
Projected to Bit	9212.00	89.10	179.00	5003.83	4455.95	-4455.29	76.54	4455.95	179.02	0.00	0.00G