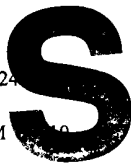
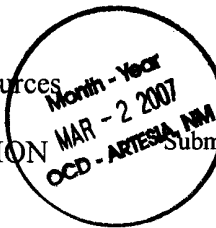


District I
1625 N. French Dr., Hobbs, NM 88249
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505



State of New Mexico
Energy, Minerals & Natural Resources

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



Form C-102
Revised June 10, 2003

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34854	² Pool Code 75250	³ Pool Name Cottonwood Creek-Wolfcamp (Gas)
⁴ Property Code	⁵ Property Name 1625 State Com	⁶ Well Number 91
⁷ OGRID No. 218885	⁸ Operator Name LCX Energy, LLC	⁹ Elevation 3521'

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
M	9	16S	25E		560	West	760	South	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
P	9	16S	25E		660	East	760	South	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 Carrillo Printed Name Regulatory, kanicia@eeronline.com Title and E-mail Address 02/28/07 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

1625 STATE COM #91 LITHOLOGY RECORD



<u>FROM</u>	<u>TO</u>	<u>THICKNESS IN FEET</u>	<u>LITHOLOGY</u>
1200	1470	270	ANHYDRITE/DOLOMITE
1470	1800	330	DOLOMITE/LIMESTONE
1800	1840	40	DOLOMITE/LIMESTONE/SAND
1840	2120	280	ANHYDRITE/DOLOMITE
2120	2140	20	DOLOMITE
2140	2210	70	ANHYDRITE/DOLOMITE
2210	2280	70	ANHYDRITE/DOLOMITE/LIMESTONE
2280	2420	140	DOLOMITE/SAND/LIMESTONE
2420	2680	240	DOLOMITE/ANHYDRITE/SAND/LIMESTONE
2680	2830	150	DOLOMITE/SAND/SHALE/SILT
2380	2880	500	ANHYDRITE/DOLOMITE/LIMESTONE
2880	3700	820	ANHYDRITE/SHALE
3700	4400	700	ANHYDRITE/SHALE
4400	4760	360	ANHYDRITE/DOLOMITE
4760	5000	240	DOLOMITE/SHALE
5000	5340	340	DOLOMITE/LIMESTONE
5340	6220	880	DOLOMITE/LIMESTONE/SHALE
6220	6280	60	DOLOMITE/LIMESTONE
6280	6440	160	DOLOMITE
6440	6600	160	DOLOMITE/SHALE
6600	6700	100	DOLOMITE/SHALE/LIMESTONE
6700	6780	80	SHALE/LIMESTONE
6780	8140	1360	DOLOMITE/SHALE/LIMESTONE
8140	8480	340	DOLOMITE/LIMESTONE
8480	8712	232	DOLOMITE/SHALE



Survey Report

Report Date: November 17, 2006	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: LCX Energy, LLC	Vertical Section Azimuth: 90.360°
Field: Eddy County, NM Nad 83	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: 1625 State Com #91 / 1625 State Com #91	TVD Reference Datum: RKB
Well: 1625 State Com #91	TVD Reference Elevation: 0.0 ft relative to
Borehole: 1625 State Com #91	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWAPIW:	Magnetic Declination: 8.605°
Survey Name / Date: 1625 State Com #91_surveys / October 27, 2006	Total Field Strength: 49444.002 nT
Tort / AHD / DDI / ERD ratio: 135.547° / 4109.27 ft / 5.995 / 0.837	Magnetic Dip: 60.796°
Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: October 27, 2006
Location Lat/Long: N 32 55 56.600, W 104 29 49.633	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 702977.000 ftUS, E 491086.000 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.08904273°	Total Corr Mag North -> Grid North: +8.694°
Grid Scale Factor: 0.99991198	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)
ie-In	4345.30	1.42	68.89	4345.17	10.05	11.29	10.12	15.16	41.85	0.41
	4374.00	7.20	75.40	4373.78	12.12	11.88	12.19	17.02	45.75	20.16
	4405.00	10.50	76.30	4404.40	16.73	13.03	16.82	21.28	52.22	10.65
	4435.00	13.70	79.60	4433.74	22.88	14.32	22.97	27.07	58.05	10.91
	4466.00	16.50	85.50	4463.66	30.87	15.33	30.97	34.56	63.66	10.29
	4496.00	19.00	91.10	4492.24	40.00	15.57	40.10	43.02	68.78	10.08
	4527.00	21.50	93.00	4521.32	50.73	15.18	50.82	53.04	73.37	8.34
	4556.00	24.50	93.50	4548.01	62.04	14.53	62.13	63.81	76.83	10.37
	4587.00	27.60	92.30	4575.86	75.64	13.85	75.73	76.98	79.63	10.14
	4618.00	29.90	91.90	4603.03	90.54	13.31	90.63	91.60	81.65	7.45
	4648.00	33.40	92.20	4628.57	106.27	12.74	106.36	107.12	83.17	11.68
	4679.00	36.90	92.90	4653.91	124.11	11.94	124.18	124.76	84.51	11.36
	4709.00	40.80	92.60	4677.27	142.90	11.04	142.98	143.40	85.58	13.02
	4740.00	43.50	89.50	4700.25	163.70	10.68	163.77	164.12	86.27	10.99
	4770.00	45.70	89.40	4721.61	184.76	10.88	184.83	185.15	86.63	7.34
	4800.00	48.40	90.50	4742.05	206.71	10.89	206.79	207.07	86.98	9.39
	4830.00	51.90	92.30	4761.27	229.74	10.32	229.81	230.04	87.43	12.54
	4861.00	55.40	93.70	4779.65	254.67	9.01	254.73	254.89	87.97	11.86
	4892.00	59.40	93.00	4796.34	280.75	7.49	280.80	280.90	88.47	13.04
	4922.00	63.70	93.30	4810.63	307.09	6.04	307.13	307.19	88.87	14.36
	4953.00	68.10	93.30	4823.29	335.34	4.41	335.38	335.40	89.25	14.19
	4984.00	72.50	93.00	4833.73	364.49	2.81	364.51	364.52	89.56	14.22
	5013.00	76.40	91.60	4841.51	392.40	1.69	392.42	392.42	89.75	14.23
	5045.00	80.60	89.50	4847.89	423.75	1.39	423.77	423.77	89.81	14.62
	5076.00	84.90	88.70	4851.80	454.49	1.88	454.51	454.51	89.76	14.11
	5106.00	88.50	88.00	4853.52	484.41	2.74	484.44	484.45	89.68	12.22
	5136.00	88.50	87.70	4854.31	514.38	3.86	514.41	514.42	89.57	1.00
	5229.00	89.00	87.30	4856.34	607.24	7.92	607.30	607.35	89.25	0.69
	5324.00	89.30	88.00	4857.75	702.12	11.81	702.21	702.31	89.04	0.80
	5417.00	89.00	87.00	4859.13	794.99	15.87	795.11	795.27	88.86	1.12
	5511.00	88.70	86.00	4861.01	888.76	21.61	888.91	889.17	88.61	1.11
	5606.00	89.70	86.30	4862.34	983.49	27.98	983.69	984.08	88.37	1.10
	5701.00	88.20	86.70	4864.08	1078.26	33.78	1078.49	1079.02	88.21	1.63
	5796.00	89.60	88.10	4865.91	1173.11	38.09	1173.37	1173.99	88.14	2.08
	5890.00	90.40	88.80	4865.91	1267.05	40.63	1267.34	1267.99	88.16	1.13
	5985.00	89.90	89.10	4865.66	1362.03	42.38	1362.32	1362.98	88.22	0.61
	6080.00	89.00	88.10	4866.57	1456.97	44.70	1457.28	1457.97	88.24	1.42
	6174.00	89.00	88.80	4868.21	1550.91	47.24	1551.23	1551.95	88.26	0.74

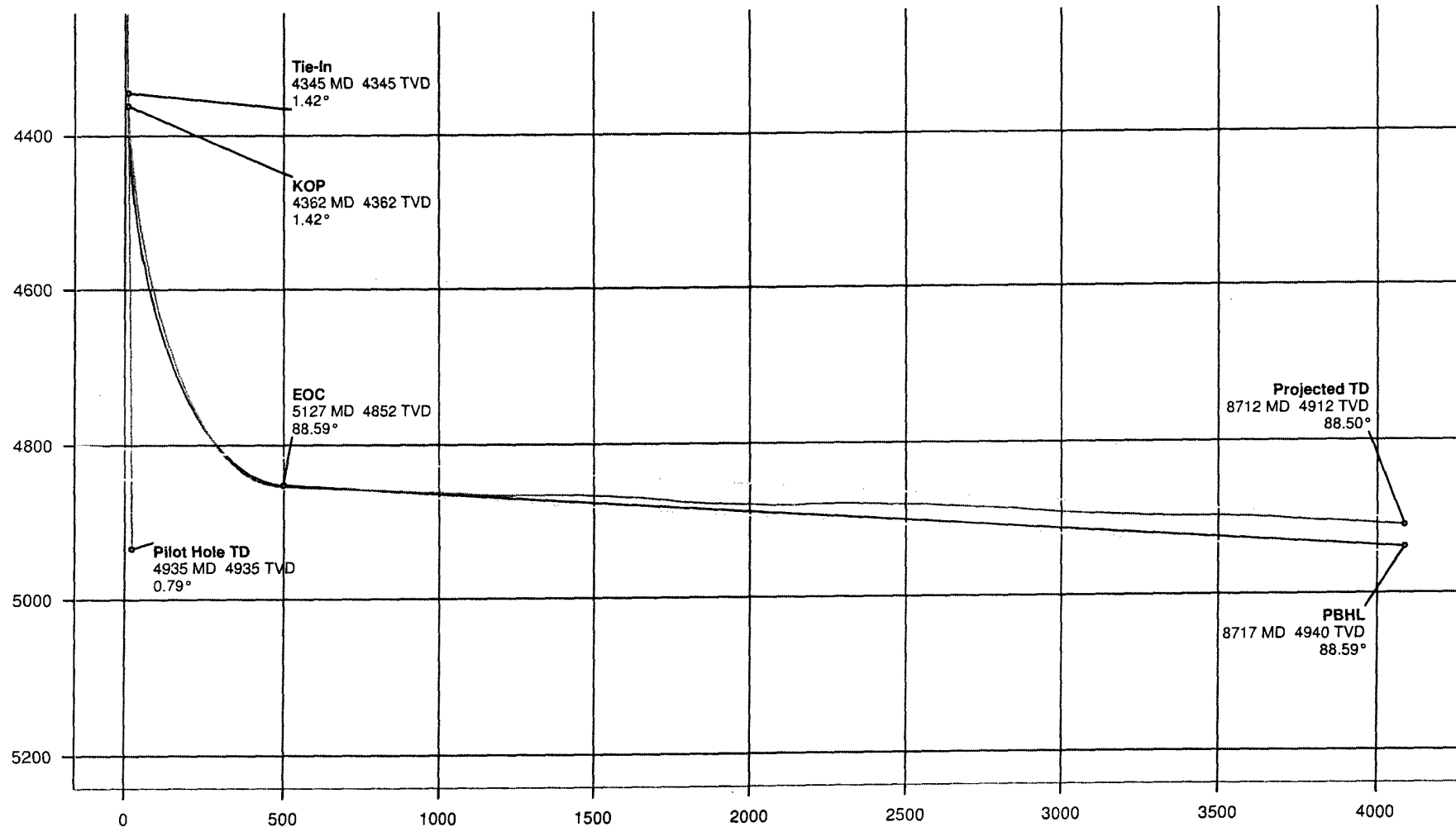
Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)
	6269.00	88.50	89.50	4870.28	1645.86	48.65	1646.20	1646.92	88.31	0.91
	6364.00	87.10	90.20	4873.93	1740.79	48.90	1741.13	1741.81	88.39	1.65
	6459.00	88.60	91.20	4877.49	1835.71	47.74	1836.05	1836.67	88.51	1.90
	6553.00	89.60	90.50	4878.97	1929.70	46.34	1930.03	1930.58	88.62	1.30
	6648.00	89.00	90.50	4880.13	2024.69	45.51	2025.01	2025.53	88.71	0.63
	6742.00	90.10	89.80	4880.87	2118.68	45.27	2119.01	2119.49	88.78	1.39
	6837.00	91.00	90.20	4879.96	2213.68	45.27	2214.00	2214.47	88.83	1.04
	6931.00	89.70	89.80	4879.38	2307.67	45.27	2308.00	2308.44	88.88	1.45
	7025.00	89.20	89.80	4880.28	2401.66	45.59	2401.99	2402.43	88.91	0.53
	7120.00	89.90	90.90	4881.03	2496.66	45.01	2496.99	2497.39	88.97	1.37
	7215.00	88.50	91.20	4882.36	2591.64	43.27	2591.96	2592.32	89.04	1.51
	7309.00	88.90	90.90	4884.49	2685.61	41.55	2685.92	2686.24	89.11	0.53
	7404.00	89.20	91.20	4886.06	2780.59	39.81	2780.89	2781.18	89.18	0.45
	7499.00	88.00	90.90	4888.39	2875.55	38.07	2875.84	2876.10	89.24	1.30
	7593.00	88.20	90.50	4891.50	2969.49	36.92	2969.79	2970.01	89.29	0.48
	7688.00	89.00	89.80	4893.82	3064.46	36.67	3064.76	3064.97	89.31	1.12
	7782.00	89.20	89.10	4895.30	3158.44	37.58	3158.74	3158.96	89.32	0.77
	7877.00	89.00	88.10	4896.79	3253.38	39.90	3253.70	3253.94	89.30	1.07
	7971.00	89.40	87.70	4898.10	3347.29	43.34	3347.62	3347.91	89.26	0.60
	8066.00	90.30	87.40	4898.35	3442.17	47.40	3442.54	3442.86	89.21	1.00
	8161.00	89.20	89.00	4898.77	3537.10	50.39	3537.48	3537.84	89.18	2.04
	8256.00	89.00	88.10	4900.26	3632.04	52.79	3632.44	3632.82	89.17	0.97
	8351.00	87.80	89.10	4902.91	3726.95	55.11	3727.37	3727.78	89.15	1.64
	8445.00	89.40	89.10	4905.21	3820.90	56.59	3821.33	3821.75	89.15	1.70
	8539.00	88.20	89.10	4907.18	3914.85	58.06	3915.30	3915.73	89.15	1.28
	8634.00	88.50	89.50	4909.91	4009.80	59.22	4010.25	4010.69	89.15	0.53
Projected TD	8712.00	88.50	89.50	4911.95	4087.76	59.90	4088.22	4088.66	89.16	0.00

661' FEL - HPL
820 FSL

Top Reef at 5000'
940' FWL
762' FSL

LCX Energy, LLC

WELL	1625 State Com #91	FIELD	Eddy County, NM Nad 83	STRUCTURE	1625 State Com #91
Magnetic Parameters Model: IGRF 2005	Dip: 80.796° Mag Dec: -8.805°	Date: October 27, 2008 FS	Surface Location Lat: N32 55 56.600 Lon: W104 29 49.633	NAD83 New Mexico State Planes, Eastern Zone, US Feet Tie-In: 702977.00 NUS Northing: 491086.00 NUS Easting: 0.9999119826	Miscellaneous Slot: 1625 State Com #91 Plan: 1625 State Com #91 surveys
				TVD Ref: RKB (0.00 ft above)	Shy Date: October 27, 2008



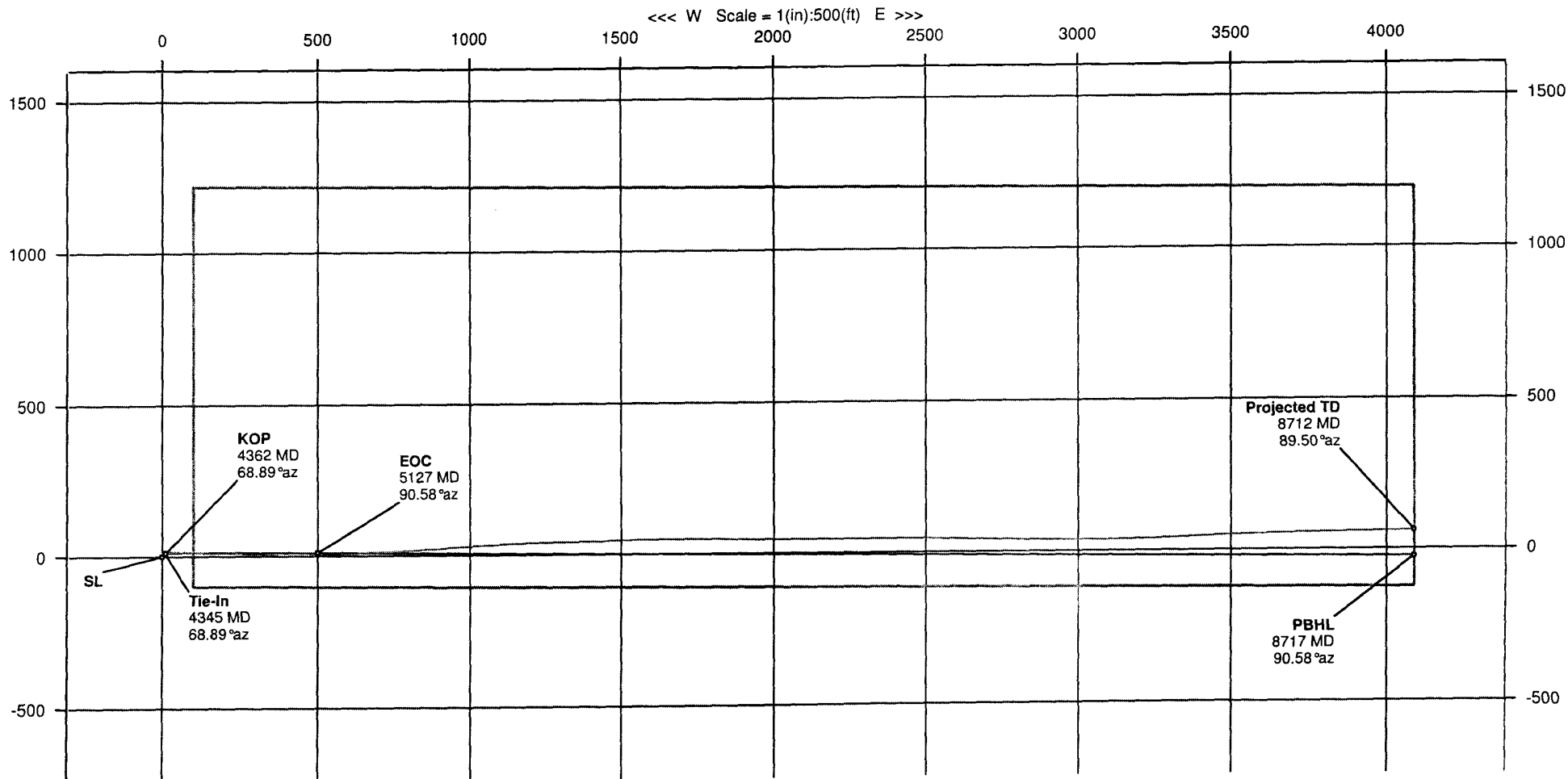
Vertical Section (ft) Azim = 90.36°, Scale = 1(in):500(ft) Origin = 0 N/-S, 0 E/-W

INTREPID
Directional Drilling Specialists



LCX Energy, LLC

WELL		1625 State Com #91		FIELD		Eddy County, NM Nad 83		STRUCTURE		1625 State Com #91	
Magnetic Parameters		Dip: 60.798°		Date: October 27, 2006		Surface Location		NAD83 New Mexico State Plane, Eastern Zone, US Feet		Miscellaneous	
Model: IGRF 2005		Mag Dec: +8.605°		FS: 49444.0 nT		Lat: N32 55 56.600		702977.00 NUS		Str: 1625 State Com #91	
						Long: W104 29 49.833		Easting: 491088.00 EUS		Plan: 1625 State Com #91, surveys	
								Grid Conv: -0.08904273*		TVD Ref: RKB (0.00 ft above)	
								Scale Fact: 0.9999119826		Srvy Date: October 27, 2006	



gyro/data

Gyrodata Incorporated
3811 S. Co. Rd. 1285
Odessa, TX. 79765

432/561-8458
Fax: 432/563-7982



SURVEY REPORT
LCX Energy
1624 State Fed No. 91
Big Dog #9
Eddy County, New Mexico
MD1006G_295

21 Oct 2006

gyro/data

Gyrodata Incorporated
3811 S. Co. Rd. 1285
Odessa, TX. 79765

432/561-8458
Fax: 432/563-7982



October 26, 2006

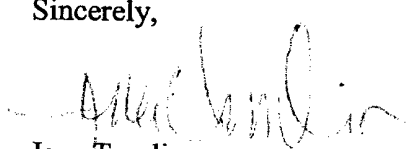
LCX Energy
Attn: Drilling Dept.
110 N. marienfeld
Suite 200
Midland, Texas 79701

Re: ^{1625 com}
~~1624~~ State Fed No. 91
Eddy County, New Mexico

Enclosed, please find one (1) original and one (1) disk of the completed survey for the above referenced well.

We would like to take this opportunity to thank you for using Gyrodata, and we look forward to serving you in the future.

Sincerely,


Jena Tumlin
Operations

A Gyrodata Directional Survey

for

LCX ENERGY

¹⁶²⁵
Lease: ~~1624~~ State ^{com} Fed Well: No. 91, 4 1/2" Drillpipe
Location: Big Dog #9, Eddy County, New Mexico

Job Number: MD1006G_295

Run Date: 21 Oct 2006

Surveyor: Anthony Eaton; Thomas Bowden

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.932360 deg. N Longitude: 104.497640 deg. W

Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

LCX Energy ~~Cam~~
 Lease: ~~1024~~ State Fed Well: No. 91, 4-1/2" Drillpipe
 Location: Big Dog #9, Eddy County, New Mexico
 Job Number: MD1006G_295

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 TO 4935 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO BIG DOG #9 R.K.B.							

200.00	0.22	77.61	N 77 37 E	0.11	200.00	0.4 77.6	0.08 N 0.38 E
400.00	0.50	94.19	S 85 49 E	0.15	400.00	1.6 86.4	0.10 N 1.62 E
600.00	0.36	120.21	S 59 47 E	0.12	599.99	3.0 95.2	0.28 S 3.03 E
800.00	0.10	161.77	S 18 14 E	0.14	799.99	3.7 101.9	0.76 S 3.63 E
1000.00	0.28	288.38	N 71 37 W	0.17	999.99	3.3 103.7	0.79 S 3.23 E
1200.00	0.30	286.39	N 73 37 W	0.02	1199.98	2.3 102.1	0.48 S 2.26 E
1400.00	0.23	303.74	N 56 16 W	0.05	1399.98	1.4 94.3	0.11 S 1.41 E
1600.00	0.26	286.35	N 73 39 W	0.04	1599.98	0.7 69.0	0.25 N 0.64 E
1800.00	0.27	299.45	N 60 33 W	0.03	1799.98	0.6 342.2	0.60 N 0.19 W
2000.00	0.28	356.78	N 3 13 W	0.13	1999.98	1.5 334.5	1.31 N 0.62 W
2200.00	0.41	348.91	N 11 6 W	0.07	2199.97	2.6 342.5	2.50 N 0.79 W
2400.00	0.48	357.43	N 2 34 W	0.05	2399.97	4.2 346.6	4.04 N 0.97 W
2600.00	0.30	358.19	N 1 49 W	0.09	2599.96	5.5 349.3	5.40 N 1.02 W
2800.00	0.62	7.59	N 7 36 E	0.16	2799.96	7.0 352.7	6.99 N 0.89 W
3000.00	0.62	25.78	N 25 47 E	0.10	2999.94	9.0 358.2	9.03 N 0.28 W
3200.00	0.20	4.67	N 4 40 E	0.22	3199.94	10.3 1.2	10.35 N 0.21 E
3400.00	0.09	254.41	S 74 24 W	0.12	3399.94	10.7 0.5	10.66 N 0.09 E
3600.00	0.59	92.25	S 87 45 E	0.34	3599.94	10.6 5.3	10.57 N 0.98 E
3782.64	0.60	87.43	N 87 26 E	0.03	3782.57	11.0 15.2	10.58 N 2.88 E
3970.20	0.58	104.51	S 75 29 E	0.09	3970.12	11.4 24.7	10.39 N 4.78 E

A Gyrodata Directional Survey

LCX Energy

Lease: 1624 State Fed Well: No. 91, 4 1/2" Drillpipe

Location: Big Dog #9, Eddy County, New Mexico

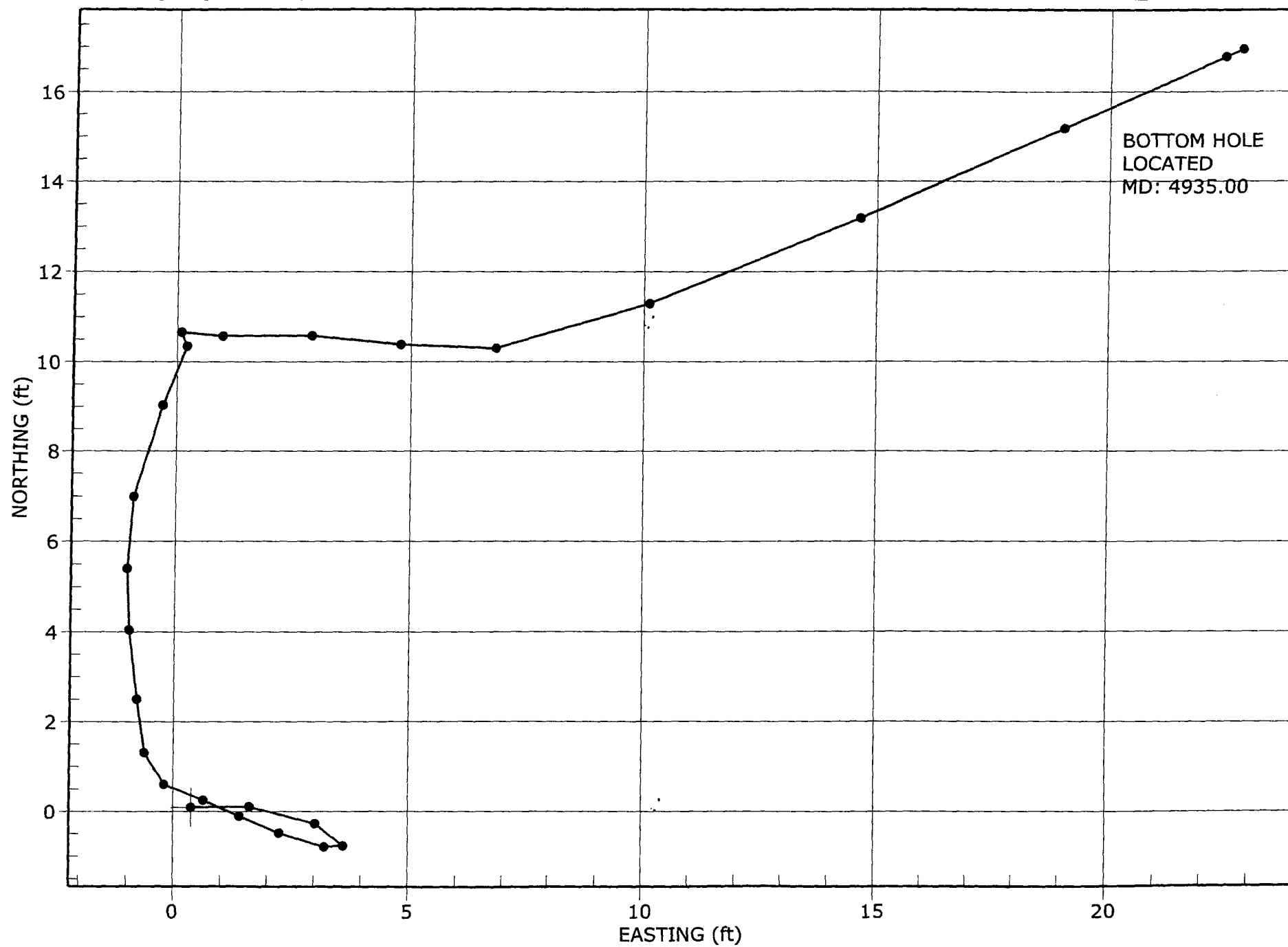
Job Number: MD1006G_295

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4157.76	0.69	82.21	N 82 12 E	0.14	4157.66	12.4 33.5	10.30 N 6.82 E
4345.32	1.42	68.89	N 68 53 E	0.41	4345.19	15.2 41.9	11.29 N 10.12 E
4532.88	1.57	66.05	N 66 3 E	0.09	4532.69	19.7 48.0	13.18 N 14.65 E
4720.44	1.37	64.88	N 64 53 E	0.11	4720.19	24.3 51.4	15.18 N 19.04 E
4908.00	0.92	64.64	N 64 39 E	0.24	4907.71	28.0 53.2	16.78 N 22.44 E
4935.00	0.79	66.99	N 66 59 E	0.50	4934.70	28.4 53.4	16.95 N 22.81 E

Final Station Closure: Distance: 28.41 ft Az: 53.39 deg.

LCX Energy
Well: 1624 State Fed. No. 91 4/1/2" Drillpipe
Location: Big Dog #9, Eddy County, New Mexico

Outrun
Gyrodata
MD1006G_295 DEFINITIVE



LCX Energy

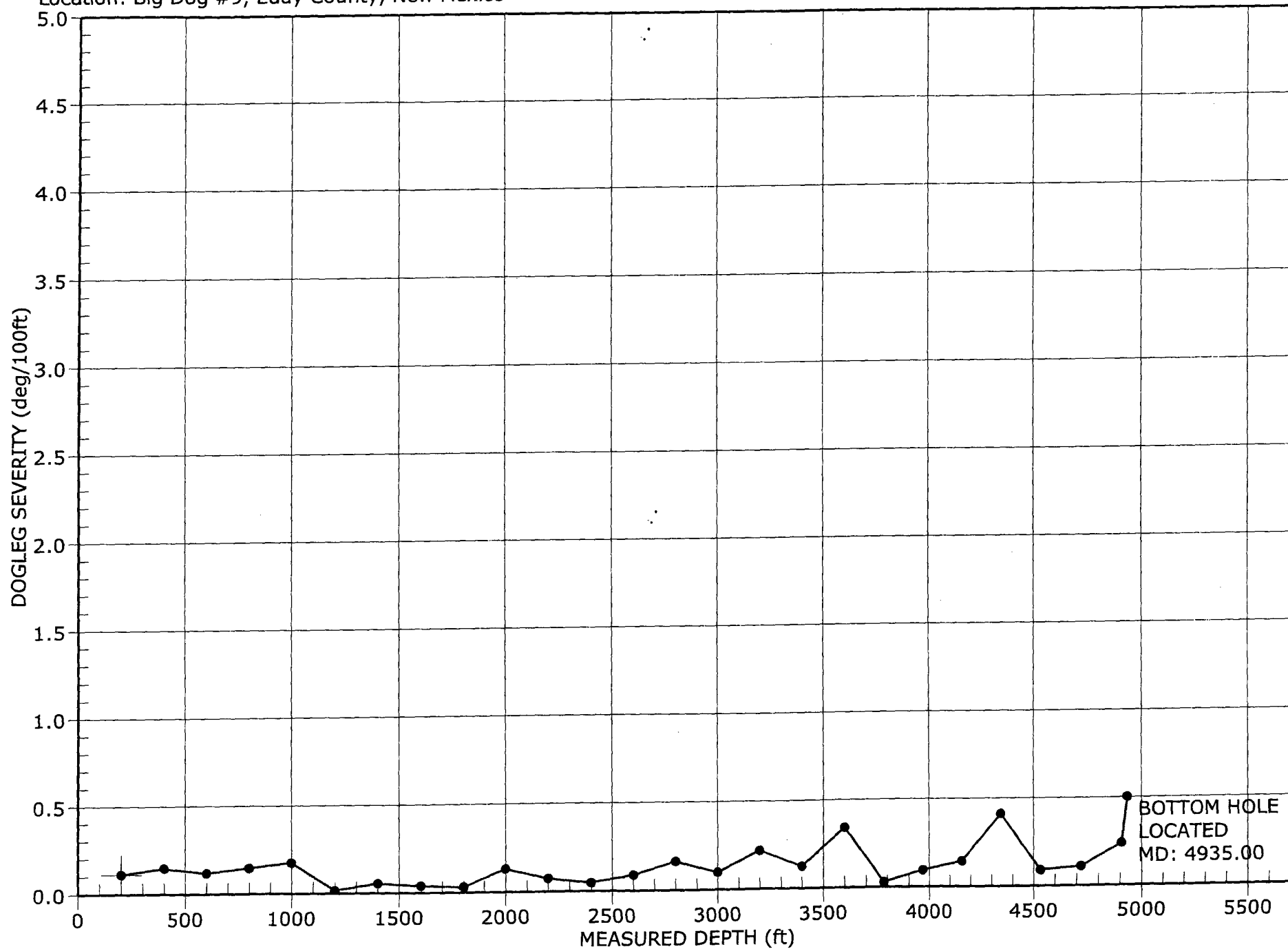
Well: 1624 State Fed. No. 91 4 1/2" Drillpipe

Location: Big Dog #9, Eddy County, New Mexico

Outrun

Gyrodata

MD1006G_295 DEFINITIVE



LCX Energy
Well: 1624 State Fed No. 91 4/1/2" Drillpipe
Location: Big Dog #9, Eddy County, New Mexico

Outrun
Gyrodata
MD1006G_295 DEFINITIVE

