

N.M. Oil Cons. DIV-Dist. 2
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
301 W. Grand Avenue
Alamosa, NM 88210
FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991
5. LEASE DESIGNATION AND SERIAL NO.
NMMN26105

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL ☐	GAS WELL ☒	DRY ☐	Other _____		
b. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	REPERFORM ☐	Other _____
2. NAME OF OPERATOR Gruy Petroleum Management Co.						3. ADDRESS AND TELEPHONE NO. P O Box 140907 Irving Tx. 75014-0907	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 725' FSL & 1750' FEL At top prod. interval reported below 727' FSL & 1727' FEL At total depth 1138' FSL & 1693' FEL						6. IF INDIAN, ALLOTTEE OR TRIBAL NAME 7. UNIT AGREEMENT NAME NMMN72243 8. FARM OR LEASE NAME, WELL NO. Federal 13 Com No. 3 9. API WELL NO. 30-015-33785 <u>SI</u> 10. FIELD AND POOL, OR WILDCAT White City; Penn (Gas) 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 13 T-25S- R-26E 12. COUNTY OR PARISH Eddy 13. STATE NM	
15. DATE SPUDDED 02-08-05		16. DATE T.D. REACHED 03-11-05		17. DATE COMPL. (Ready to prod.) 05-19-05		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3220' GR	
20. TOTAL DEPTH, MD & TVD MD 12232' TVD 12184'		21. PLUG, BACK T.D., MD & TVD MD 12150' TVD 12115'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS All	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* MD 11166' - 11806' White City; Penn (Gas) TVD 11135' - 11778' White City; Penn (Gas)						25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Spaced Neutron GRL, Dual Laterolog Micro-SFL, Cement Bond Log						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD		AMOUNT PULLED	
13-3/8" J-55	54.5 #	222'	17-1/2"	225 sx Prem Plus circ 42 sx			
9-5/8" NS-110	40 #	1935'	12-1/4"	650 sx IntC/Prem circ 125 sx			
7" P-110	23#	9015'	8-3/4"	1060sx IntH/SupH/IntC/Prem circ 165sx			
4-1/2" P-110	11.6#	12243'	6-1/8"	460sx PB SupH TOC 5640'			
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	12050'	
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
11790' - 11806' 6 JSPF 96 Holes 11544' - 11554' 6 JSPF 60 Holes 11166' - 11290' 6 JSPF 120 Holes				DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 11790' - 11806' 26845gal foam CO2/Meth 35100# VProp 11544' - 11554' 17252gal foam CO2/Meth 22050# VProp 11166' - 11290' 96000gal foam CO2 70000# VProp			
33. PRODUCTION							
DATE FIRST PRODUCTION 06-09-05		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 06-25-05	HOURS TESTED 24 hours	CHOKED SIZE open	PROD'N. FOR TEST PERIOD →	OIL—BBL. 0	GAS—MCF. 333	WATER—BBL. 39	GAS-OIL RATIO 0
FLOW. TUBING PRESS. 90	CASING PRESSURE 1700	CALCULATED 24-HOUR RATE →	OIL—BBL. 0	GAS—MCF. 333	WATER—BBL. 39	OIL GRAVITY-API (CORR.) 0	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Electric logs and Deviation Report							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>Natalie Krueger</u>		TITLE <u>Reg Tech</u>		DATE <u>September 21, 2005</u>			

*(See Instructions and Spaces for Additional Data on Reverse Side)

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Bone Springs	5075'	
				Wolfcamp	8562'	
				Penn	10120'	
				Strawn	10310'	
				Atoka	10532'	
				Morrow	11190'	

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-33785	Pool Code 87280	Pool Name White City; Penn (Gas)
Property Code	Property Name FEDERAL 13 COM	Well Number 3
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT COMPANY	Elevation 3222'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	13	25-S	26-E		725	SOUTH	1750	EAST	EDDY

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
0	13	25-S	26-E		1138	SOUTH	1693	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640	Y	C	

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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <i>Zeno Farris</i> Signature Zeno Farris Printed Name Mgr Operations Admin Title September 22, 2005 Date
	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. NOVEMBER 5, 2004 Date Surveyed Signature & Seal of Professional Surveyor <i>GARY EIDSON</i> 04.11.1476 Certificate No. GARY EIDSON 12841



**Gruy Petroleum Management
New Mexico
Eddy County
Sec 13-T25S-R26E
Federal 13 #3 - MWD survey**

Sperry Drilling Services Survey Report

11 March, 2005

Survey Ref: svy8253

Prepared by: Dennis Cook
Checked by:
Approved by:

HALIBURTON
Sperry Drilling Services

Survey Report for Sec 13-T25S-R26E - Federal 13 #3

Measured Depth (ft)	Incl.	Grid Azim.	Vertical Depth (ft)	Local Coordinates Northings (ft)	Eastings (ft)	Global Coordinates Northings (ft)	Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
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Gyro Survey

0.00	0.000	0.000	0.00	0.00 N	0.00 E	409032.60 N	527925.00 E	0.05	0.00	
100.00	0.050	96.270	100.00	0.00 N	0.04 E	409032.60 N	527925.04 E	0.05	0.00	
200.00	0.470	170.710	200.00	0.41 S	0.15 E	409032.19 N	527925.15 E	0.46	-0.41	
300.00	0.290	170.380	300.00	1.07 S	0.26 E	409031.53 N	527925.26 E	0.18	-1.07	
400.00	0.290	176.410	400.00	1.57 S	0.32 E	409031.03 N	527925.32 E	0.03	-1.57	
500.00	0.320	183.800	499.99	2.10 S	0.32 E	409030.50 N	527925.32 E	0.05	-2.10	
600.00	0.530	179.220	599.99	2.84 S	0.30 E	409029.76 N	527925.30 E	0.21	-2.84	
700.00	0.280	189.810	699.99	3.55 S	0.27 E	409029.05 N	527925.27 E	0.26	-3.55	
800.00	0.240	182.480	799.99	4.00 S	0.22 E	409028.60 N	527925.22 E	0.05	-4.00	
900.00	0.140	250.330	899.99	4.25 S	0.09 E	409028.35 N	527925.09 E	0.23	-4.25	
1000.00	0.280	269.100	999.99	4.29 S	0.26 W	409028.31 N	527924.74 E	0.15	-4.29	
1100.00	0.260	335.740	1099.99	4.09 S	0.60 W	409028.51 N	527924.40 E	0.30	-4.09	
1200.00	0.950	53.360	1199.98	3.39 S	0.03 W	409029.21 N	527924.97 E	0.93	-3.39	
1300.00	1.200	60.520	1299.96	2.38 S	1.55 E	409030.22 N	527926.55 E	0.28	-2.38	
1400.00	1.230	70.220	1399.94	1.50 S	3.47 E	409031.10 N	527928.47 E	0.21	-1.50	
1500.00	2.310	79.040	1499.89	0.75 S	6.46 E	409031.85 N	527931.46 E	1.11	-0.75	
1600.00	2.600	75.220	1599.80	0.21 N	10.63 E	409032.81 N	527935.63 E	0.33	0.21	
1700.00	2.520	82.700	1699.70	1.07 N	15.00 E	409033.67 N	527940.00 E	0.34	1.07	
1800.00	2.500	77.850	1799.60	1.81 N	19.31 E	409034.41 N	527944.31 E	0.21	1.81	
1900.00	2.380	89.110	1899.51	2.30 N	23.52 E	409034.90 N	527948.52 E	0.49	2.30	
2000.00	2.020	77.420	1999.44	2.71 N	27.32 E	409035.31 N	527952.32 E	0.57	2.71	
2100.00	1.750	75.650	2099.39	3.48 N	30.52 E	409036.08 N	527955.52 E	0.28	3.48	
2200.00	1.600	83.750	2199.34	4.01 N	33.39 E	409036.61 N	527958.39 E	0.28	4.01	
2300.00	1.100	75.090	2299.32	4.41 N	35.70 E	409037.01 N	527960.70 E	0.54	4.41	
2400.00	0.970	73.950	2399.30	4.89 N	37.44 E	409037.49 N	527962.44 E	0.13	4.89	

Survey Report for Sec 13-T25S-R26E - Federal 13 #3

Measured Depth (ft)	Incl.	Grid Azim.	Vertical Depth (ft)	Local Coordinates Northings (ft)	Eastings (ft)	Global Coordinates Northings (ft)	Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
2500.00	0.540	102.170	2499.29	5.02 N	38.72 E	409037.62 N	527963.72 E	0.56	5.02	
2600.00	0.710	106.430	2599.28	4.75 N	39.77 E	409037.35 N	527964.77 E	0.18	4.75	
2700.00	0.690	99.400	2699.28	4.47 N	40.96 E	409037.07 N	527965.96 E	0.09	4.47	
2800.00	0.600	82.590	2799.27	4.44 N	42.07 E	409037.04 N	527967.07 E	0.21	4.44	
2900.00	0.620	86.750	2899.27	4.54 N	43.13 E	409037.14 N	527968.13 E	0.05	4.54	
3000.00	0.570	61.640	2999.26	4.81 N	44.11 E	409037.41 N	527969.11 E	0.26	4.81	
3100.00	0.340	53.150	3099.26	5.22 N	44.78 E	409037.82 N	527969.78 E	0.24	5.22	
3200.00	0.120	335.140	3199.26	5.49 N	44.98 E	409038.09 N	527969.98 E	0.34	5.49	
3300.00	0.180	228.330	3299.26	5.48 N	44.82 E	409038.08 N	527969.82 E	0.24	5.48	
3400.00	0.170	256.490	3399.26	5.35 N	44.56 E	409037.95 N	527969.56 E	0.09	5.35	
3500.00	0.260	153.900	3499.26	5.11 N	44.51 E	409037.71 N	527969.51 E	0.34	5.11	
3600.00	0.080	6.520	3599.25	4.97 N	44.62 E	409037.57 N	527969.62 E	0.33	4.97	
3700.00	0.270	248.880	3699.25	4.96 N	44.41 E	409037.56 N	527969.41 E	0.32	4.96	
3800.00	0.440	198.290	3799.25	4.51 N	44.07 E	409037.11 N	527969.07 E	0.34	4.51	
3900.00	0.310	185.030	3899.25	3.87 N	43.92 E	409036.47 N	527968.92 E	0.16	3.87	
4000.00	0.160	227.390	3999.25	3.51 N	43.80 E	409036.11 N	527968.80 E	0.22	3.51	
4100.00	0.160	235.960	4099.25	3.34 N	43.58 E	409035.94 N	527968.58 E	0.02	3.34	
4200.00	0.190	206.590	4199.25	3.11 N	43.39 E	409035.71 N	527968.39 E	0.09	3.11	
4300.00	0.580	241.750	4299.25	2.72 N	42.87 E	409035.32 N	527967.87 E	0.44	2.72	
4400.00	0.220	207.470	4399.24	2.31 N	42.33 E	409034.91 N	527967.33 E	0.42	2.31	
4500.00	0.180	251.980	4499.24	2.09 N	42.10 E	409034.69 N	527967.10 E	0.16	2.09	
4600.00	0.610	238.370	4599.24	1.77 N	41.49 E	409034.37 N	527966.49 E	0.44	1.77	
4700.00	0.550	208.380	4699.24	1.06 N	40.81 E	409033.66 N	527965.81 E	0.31	1.06	
4800.00	0.490	229.410	4799.23	0.36 N	40.26 E	409032.96 N	527965.26 E	0.20	0.36	
4900.00	1.000	199.530	4899.22	0.74 S	39.64 E	409031.86 N	527964.64 E	0.62	-0.74	

Survey Report for Sec 13-T25S-R26E - Federal 13 #3

Measured Depth (ft)	Incl.	Grid Azim.	Vertical Depth (ft)	Local Coordinates		Global Coordinates		Dogleg Rate (°/100ft)	Vertical Section	Comment
				Northings (ft)	Eastings (ft)	Northings (ft)	Eastings (ft)			
5000.00	0.710	196.840	4999.21	2.15 S	39.17 E	409030.45 N	527964.17 E	0.29	-2.15	
5100.00	1.150	205.570	5099.20	3.65 S	38.56 E	409028.95 N	527963.56 E	0.46	-3.65	
5200.00	0.870	189.240	5199.18	5.30 S	38.00 E	409027.30 N	527963.00 E	0.40	-5.30	
5300.00	0.850	208.740	5299.17	6.70 S	37.52 E	409025.90 N	527962.52 E	0.29	-6.70	
5400.00	1.240	226.610	5399.16	8.10 S	36.38 E	409024.50 N	527961.38 E	0.50	-8.10	
5500.00	1.530	218.260	5499.13	9.89 S	34.77 E	409022.71 N	527959.77 E	0.35	-9.89	
5600.00	1.400	217.580	5599.09	11.91 S	33.20 E	409020.69 N	527958.20 E	0.13	-11.91	
5700.00	1.190	192.510	5699.07	13.89 S	32.23 E	409018.71 N	527957.23 E	0.60	-13.89	
5800.00	1.090	191.860	5799.05	15.83 S	31.81 E	409016.77 N	527956.81 E	0.10	-15.83	
5900.00	1.190	197.470	5899.03	17.75 S	31.30 E	409014.85 N	527956.30 E	0.15	-17.75	
6000.00	1.620	208.770	5999.00	19.98 S	30.31 E	409012.62 N	527955.31 E	0.51	-19.98	
6100.00	2.030	200.670	6098.95	22.88 S	29.00 E	409009.72 N	527954.00 E	0.48	-22.88	
6200.00	1.550	208.550	6198.90	25.72 S	27.73 E	409006.88 N	527952.73 E	0.54	-25.72	
6300.00	1.630	201.710	6298.86	28.23 S	26.56 E	409004.37 N	527951.56 E	0.21	-28.23	
6400.00	1.160	205.950	6398.83	30.47 S	25.59 E	409002.13 N	527950.59 E	0.48	-30.47	
6500.00	0.850	208.400	6498.82	32.03 S	24.79 E	409000.57 N	527949.79 E	0.31	-32.03	
6600.00	0.760	218.500	6598.81	33.20 S	24.03 E	408999.40 N	527949.03 E	0.17	-33.20	
6700.00	1.060	160.790	6698.80	34.59 S	23.92 E	408998.01 N	527948.92 E	0.92	-34.59	
6800.00	1.020	152.800	6798.78	36.26 S	24.63 E	408996.34 N	527949.63 E	0.15	-36.26	
6900.00	0.830	146.510	6898.77	37.65 S	25.44 E	408994.95 N	527950.44 E	0.22	-37.65	
7000.00	0.640	92.770	6998.76	38.28 S	26.39 E	408994.32 N	527951.39 E	0.69	-38.28	
7100.00	1.570	91.980	7098.74	38.36 S	28.32 E	408994.24 N	527953.32 E	0.93	-38.36	
7200.00	1.750	74.370	7198.70	37.99 S	31.16 E	408994.61 N	527956.16 E	0.54	-37.99	
7300.00	1.220	85.530	7298.66	37.50 S	33.69 E	408995.10 N	527958.69 E	0.60	-37.50	
7400.00	1.110	96.050	7398.64	37.52 S	35.72 E	408995.08 N	527960.72 E	0.24	-37.52	

Survey Report for Sec 13-T25S-R26E - Federal 13 #3

Measured Depth (ft)	Incl.	Grid Azim.	Vertical Depth (ft)	Local Coordinates Northings (ft)	Eastings (ft)	Global Coordinates Northings (ft)	Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
7500.00	0.940	85.580	7498.63	37.56 S	37.50 E	408995.04 N	527962.50 E	0.25	-37.56	
7600.00	0.770	86.650	7598.62	37.46 S	38.99 E	408995.14 N	527963.99 E	0.17	-37.46	
7700.00	1.210	183.740	7698.61	38.47 S	39.59 E	408994.13 N	527964.59 E	1.51	-38.47	
7800.00	1.030	215.520	7798.59	40.25 S	39.00 E	408992.35 N	527964.00 E	0.64	-40.25	
7900.00	1.380	222.730	7898.57	41.87 S	37.66 E	408990.73 N	527962.66 E	0.38	-41.87	
8000.00	1.610	248.380	7998.53	43.27 S	35.53 E	408989.33 N	527960.53 E	0.70	-43.27	
8100.00	1.920	235.760	8098.49	44.73 S	32.84 E	408987.87 N	527957.84 E	0.50	-44.73	
8200.00	2.420	234.090	8198.41	46.91 S	29.75 E	408985.69 N	527954.75 E	0.50	-46.91	
8300.00	2.370	225.780	8298.33	49.59 S	26.56 E	408983.01 N	527951.56 E	0.35	-49.59	
8400.00	1.780	218.480	8398.26	52.25 S	24.11 E	408980.35 N	527949.11 E	0.65	-52.25	
8495.00	1.630	235.550	8493.22	54.17 S	22.08 E	408978.43 N	527947.08 E	0.56	-54.17	Tie from Gyro

MWD survey

9043.00	0.540	122.640	9041.15	59.97 S	17.82 E	408972.63 N	527942.82 E	0.35	-59.97	
9074.00	0.840	114.500	9072.14	60.15 S	18.15 E	408972.45 N	527943.15 E	1.02	-60.15	
9106.00	0.770	84.770	9104.14	60.22 S	18.58 E	408972.38 N	527943.58 E	1.31	-60.22	
9138.00	1.180	60.790	9136.14	60.04 S	19.08 E	408972.56 N	527944.08 E	1.78	-60.04	
9170.00	1.700	31.460	9168.13	59.48 S	19.62 E	408973.12 N	527944.62 E	2.77	-59.48	
9201.00	2.090	8.190	9199.11	58.53 S	19.94 E	408974.07 N	527944.94 E	2.76	-58.53	
9233.00	2.010	355.460	9231.09	57.39 S	19.98 E	408975.21 N	527944.98 E	1.44	-57.39	
9295.00	2.990	346.210	9293.03	54.74 S	19.51 E	408977.86 N	527944.51 E	1.70	-54.74	
9359.00	3.270	344.540	9356.94	51.36 S	18.62 E	408981.24 N	527943.62 E	0.46	-51.36	
9422.00	4.070	353.320	9419.81	47.40 S	17.88 E	408985.20 N	527942.88 E	1.55	-47.40	
9486.00	3.960	15.600	9483.65	43.02 S	18.21 E	408989.58 N	527943.21 E	2.43	-43.02	
9548.00	3.730	14.580	9545.51	39.00 S	19.30 E	408993.60 N	527944.30 E	0.39	-39.00	
9613.00	3.630	35.120	9610.38	35.27 S	21.01 E	408997.33 N	527946.01 E	2.02	-35.27	
9676.00	3.060	19.930	9673.28	32.06 S	22.73 E	409000.54 N	527947.73 E	1.66	-32.06	
9708.00	3.170	13.380	9705.23	30.40 S	23.23 E	409002.20 N	527948.23 E	1.16	-30.40	

Survey Report for Sec 13-T25S-R26E - Federal 13 #3

Measured Depth (ft)	Incl.	Grid Azim.	Vertical Depth (ft)	Local Coordinates Northings (ft)	Eastings (ft)	Global Coordinates Northings (ft)	Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
9739.00	3.160	11.390	9736.18	28.73 S	23.60 E	409003.87 N	527948.60 E	0.36	-28.73	
9771.00	3.520	6.120	9768.13	26.89 S	23.87 E	409005.71 N	527948.87 E	1.48	-26.89	
9803.00	4.220	11.390	9800.05	24.76 S	24.21 E	409007.84 N	527949.21 E	2.45	-24.76	
9835.00	4.480	6.290	9831.96	22.36 S	24.58 E	409010.24 N	527949.58 E	1.46	-22.36	
9867.00	4.480	359.260	9863.86	19.87 S	24.70 E	409012.73 N	527949.70 E	1.71	-19.87	
9898.00	4.570	353.990	9894.77	17.43 S	24.56 E	409015.17 N	527949.56 E	1.37	-17.43	
9930.00	4.660	353.640	9926.66	14.87 S	24.28 E	409017.73 N	527949.28 E	0.29	-14.87	
9963.00	4.750	354.870	9959.55	12.18 S	24.01 E	409020.42 N	527949.01 E	0.41	-12.18	
9993.00	4.750	356.980	9989.45	9.70 S	23.83 E	409022.90 N	527948.83 E	0.58	-9.70	
10024.00	4.570	358.560	10020.35	7.18 S	23.73 E	409025.42 N	527948.73 E	0.71	-7.18	
10088.00	6.150	355.920	10084.07	1.21 S	23.43 E	409031.39 N	527948.43 E	2.50	-1.21	
10119.00	7.030	356.450	10114.86	2.34 N	23.19 E	409034.94 N	527948.19 E	2.85	2.34	
10151.00	7.820	353.640	10146.59	6.46 N	22.83 E	409039.06 N	527947.83 E	2.72	6.46	
10213.00	9.840	350.120	10207.85	15.87 N	21.45 E	409048.47 N	527946.45 E	3.37	15.87	
10277.00	11.510	359.440	10270.75	27.64 N	20.45 E	409060.24 N	527945.45 E	3.75	27.64	
10339.00	10.770	357.030	10331.58	39.61 N	20.09 E	409072.21 N	527945.09 E	1.41	39.61	
10371.00	10.400	355.810	10363.04	45.48 N	19.72 E	409078.08 N	527944.72 E	1.35	45.48	
10402.00	10.290	354.590	10393.53	51.03 N	19.26 E	409083.63 N	527944.26 E	0.79	51.03	
10433.00	10.570	352.160	10424.02	56.60 N	18.61 E	409089.20 N	527943.61 E	1.68	56.60	
10465.00	11.060	350.420	10455.45	62.53 N	17.70 E	409095.13 N	527942.70 E	1.84	62.53	
10496.00	10.660	354.330	10485.90	68.32 N	16.92 E	409100.92 N	527941.92 E	2.70	68.32	
10528.00	10.470	356.410	10517.36	74.17 N	16.45 E	409106.77 N	527941.45 E	1.33	74.17	
10560.10	10.360	356.510	10548.93	79.96 N	16.09 E	409112.56 N	527941.09 E	0.35	79.96	
10592.00	10.810	359.030	10580.28	85.81 N	15.86 E	409118.41 N	527940.86 E	2.02	85.81	
10623.00	11.270	355.040	10610.71	91.74 N	15.55 E	409124.34 N	527940.55 E	2.88	91.74	

Survey Report for Sec 13-T25S-R26E - Federal 13 #3

Measured Depth (ft)	Incl.	Grid Azim.	Vertical Depth (ft)	Local Coordinates Northings (ft)	Eastings (ft)	Global Coordinates Northings (ft)	Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
10655.00	12.210	357.040	10642.04	98.23 N	15.11 E	409130.83 N	527940.11 E	3.20	98.23	
10686.00	13.190	357.840	10672.28	105.04 N	14.80 E	409137.64 N	527939.80 E	3.21	105.04	
10718.00	14.240	357.390	10703.37	112.62 N	14.49 E	409145.22 N	527939.49 E	3.30	112.62	
10780.00	15.510	357.410	10763.29	128.52 N	13.76 E	409161.12 N	527938.76 E	2.05	128.52	
10845.00	15.340	1.870	10825.95	145.79 N	13.65 E	409178.39 N	527938.65 E	1.84	145.79	
10909.00	12.570	1.410	10888.06	161.22 N	14.10 E	409193.82 N	527939.10 E	4.33	161.22	
10941.00	13.010	3.290	10919.26	168.30 N	14.39 E	409200.90 N	527939.39 E	1.89	168.30	
10972.00	13.060	2.350	10949.46	175.28 N	14.74 E	409207.88 N	527939.74 E	0.70	175.28	
11004.00	12.930	3.600	10980.64	182.47 N	15.11 E	409215.07 N	527940.11 E	0.97	182.47	
11068.00	12.380	4.420	11043.09	196.45 N	16.09 E	409229.05 N	527941.09 E	0.90	196.45	
11100.00	11.890	3.590	11074.37	203.16 N	16.56 E	409235.76 N	527941.56 E	1.63	203.16	
11132.00	12.520	5.460	11105.65	209.91 N	17.10 E	409242.51 N	527942.10 E	2.32	209.91	
11195.00	14.790	4.500	11166.87	224.72 N	18.38 E	409257.32 N	527943.38 E	3.62	224.72	
11258.00	14.300	6.140	11227.85	240.48 N	19.84 E	409273.08 N	527944.84 E	1.02	240.48	
11354.00	14.410	8.890	11320.85	264.07 N	22.95 E	409296.67 N	527947.95 E	0.72	264.07	
11417.00	12.900	6.590	11382.07	278.80 N	24.97 E	409311.40 N	527949.97 E	2.55	278.80	
11448.00	12.140	8.310	11412.33	285.46 N	25.84 E	409318.06 N	527950.84 E	2.73	285.46	
11511.00	13.470	4.870	11473.76	299.33 N	27.42 E	409331.93 N	527952.42 E	2.43	299.33	
11543.00	13.200	6.470	11504.90	306.67 N	28.15 E	409339.27 N	527953.15 E	1.43	306.67	
11575.00	13.210	4.150	11536.06	313.95 N	28.82 E	409346.55 N	527953.82 E	1.66	313.95	
11605.00	13.220	3.940	11565.26	320.79 N	29.31 E	409353.39 N	527954.31 E	0.16	320.79	
11637.00	12.930	3.760	11596.43	328.01 N	29.79 E	409360.61 N	527954.79 E	0.92	328.01	
11700.00	11.770	3.060	11657.97	341.46 N	30.60 E	409374.06 N	527955.60 E	1.86	341.46	
11764.00	11.140	4.350	11720.70	354.14 N	31.42 E	409386.74 N	527956.42 E	1.06	354.14	
11827.00	11.900	5.250	11782.43	366.68 N	32.47 E	409399.28 N	527957.47 E	1.24	366.68	

Survey Report for Sec 13-T25S-R26E - Federal 13 #3

Measured Depth (ft)	Incl.	Grid Azim.	Vertical Depth (ft)	Local Coordinates Northings (ft)	Eastings (ft)	Global Coordinates Northings (ft)	Eastings (ft)	Dogleg Rate (°/100ft)	Vertical Section	Comment
11921.00	8.890	17.230	11874.89	383.28 N	35.51 E	409415.88 N	527960.51 E	3.93	383.28	
12015.00	7.120	35.060	11967.98	394.98 N	41.01 E	409427.58 N	527966.01 E	3.22	394.98	
12079.00	7.300	38.380	12031.47	401.42 N	45.81 E	409434.02 N	527970.81 E	0.71	401.42	
12174.00	5.210	47.390	12125.91	409.07 N	52.74 E	409441.67 N	527977.74 E	2.42	409.07	last MWMD
12232.00	5.100	48.000	12183.67	412.58 N	56.59 E	409445.18 N	527981.59 E	0.21	412.58	projection to TD

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to Grid North.

Vertical depths are relative to RKB. Northings and Eastings are relative to Well.

Global Northings and Eastings are relative to NAD27 New Mexico State Planes, Eastern Zone.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Well and calculated along an Azimuth of 0.000° (Grid).

Based upon Minimum Curvature type calculations, at a Measured Depth of 12232.00ft.,
The Bottom Hole Displacement is 416.44ft., in the Direction of 7.810° (Grid).

Comments

Measured Depth (ft)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Comment
8495.00	8493.22	54.17 S	22.08 E	Tie from Gyro
12174.00	12125.91	409.07 N	52.74 E	last MWMD
12232.00	12183.67	412.58 N	56.59 E	projection to TD

North Reference Sheet for Sec 13-T25S-R26E - Federal 13 #3

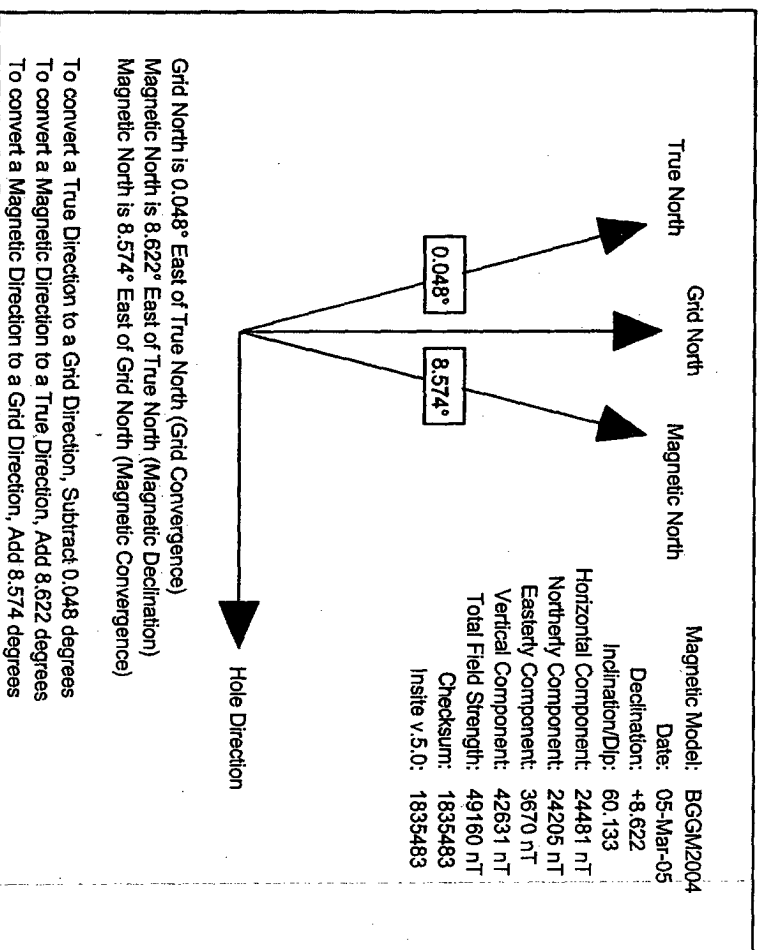
Coordinate System is NAD27 New Mexico State Planes, Eastern Zone, US Foot
Source: Snyder, J.P., 1987, Map Projections - A Working Manual

Datum is North American Datum of 1927 (US48, AK, HI, and Canada)

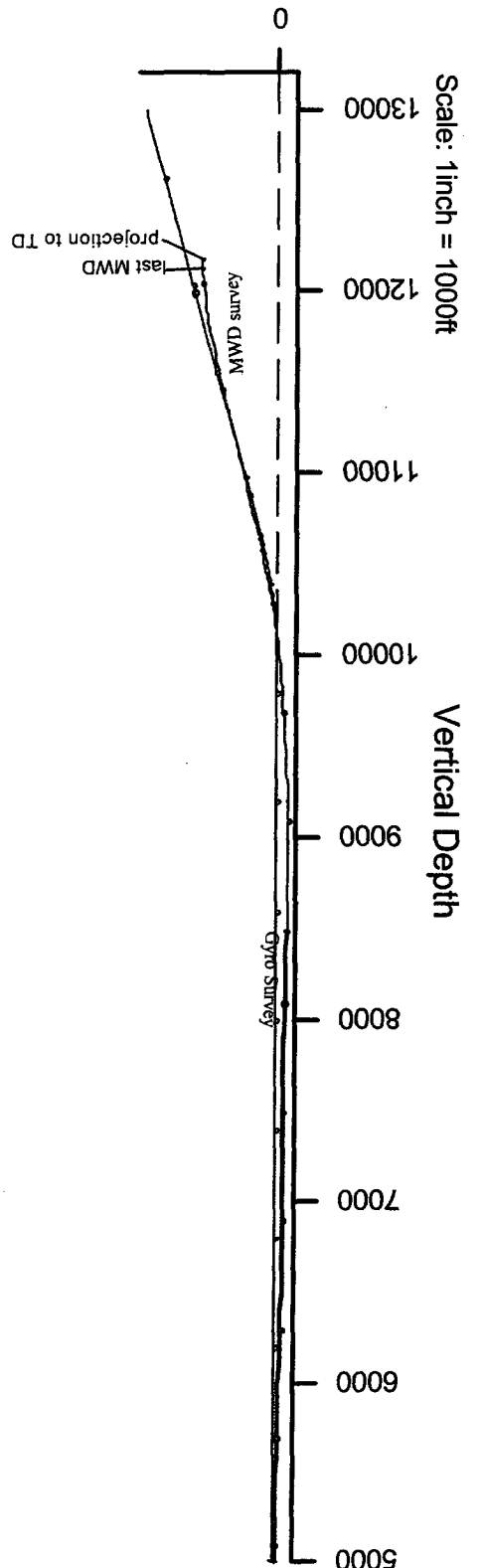
Spheroid is Clarke - 1866
Equatorial Radius: 6378206.400m.
Polar Radius: 6356583.800m.
Inverse Flattening: 294.978698213901

Projection method is Transverse Mercator or Gauss Kruger Projection
Central Meridian is -104.333°
Longitude Origin: 0.000°
Latitude Origin: 31.000°
False Easting: 152400.00m
False Northing: 0.00m
Scale Reduction: 0.99990909

Grid Coordinates of Well: 409032.60 N, 527925.00 E
Geographical Coordinates of Well: 32° 07' 28.2538" N, 104° 14' 35.2646" W
Surface Elevation of Well: 0.00ft
Grid Convergence at Surface is +0.048°
Magnetic Convergence at Surface is -8.574° (5 March, 2005)



New Mexico
Eddy County
Sec 13-T25S-R26E
Federal 13 #3



Section Azimuth: 0.000° (Grid North)

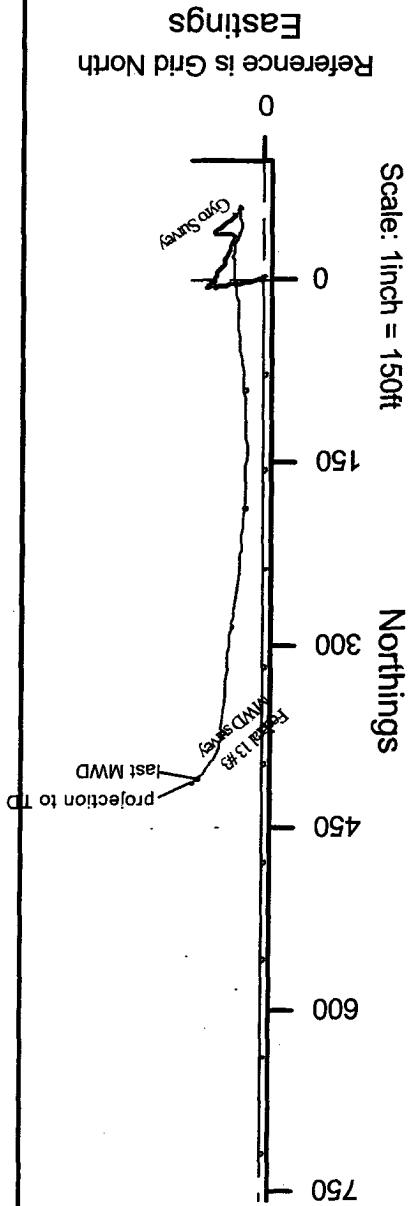
Vertical Section

Prepared by:
Dennis Cook

Date/Time:
17 March, 2005 - 16:17

Checked:

Approved:

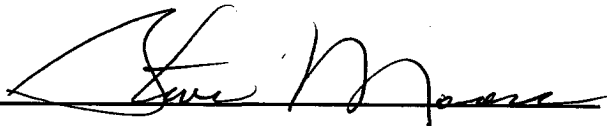


OPERATOR MAGNUM HUNTER DBA GRUY
WELL/LEASE FEDERAL COM 13 #3
COUNTY EDDY, NM

080-0030

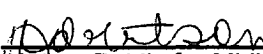
STATE OF NEW MEXICO
DEVIATION REPORT

200	1
556	1
1,022	1
1,397	1
1,714	3
1,900	2 1/4
2,103	1
2,579	1
2,984	1
3,246	1
3,721	1 1/2
4,211	1 1/2
4,518	1
4,899	1 1/2
5,400	1 1/2
5,917	1
6,108	1
6,320	2
6,886	1 1/2
7,378	1
7,815	1/2
8,299	2
8,600	1 3/4
9,015	1 3/4

BY: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me March 28 , 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.


Notary Public for Midland County, Texas
My Commission Expires: 8/23/07

