

Oil Cons.
N.M. DIV-Dist. 2
301 W. Grand Avenue
Alamogordo, NM 88401
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.
NMNM 027994D
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 ☐ DIFF. REMVR. ☐ 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 400' FNL & 330' FWL

At top prod. interval reported below 900' FNL & 1200 FEL

At total depth 1095' FNL & 1562' FEL

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

13. STATE

Eddy

NM

15. DATE SPUDDED 4-30-03 16. DATE T.D. REACHED 6-06-03 17. DATE COMPL. (Ready to prod.) 7-30-03 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 3252' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 12206' 21. PLUG, BACK T.D., MD & TVD 12174' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

Carlsbad; Morrow., South 12022' - 12146'

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORRED

Dual Spaced Neutron, Dual Spaced Neutron Psuedo Density Cased Hole, Cement Bond Log

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 FULLED
13 - 3/8" H-40	48 #	422'	17-1/2"	490 sx C 4% gel circ 85 sx to pit	
9-5/8" J-55	40 #	3193'	12 1/4"	1185 sx interfill circ 25 sx to pit	
5-1/2" LI&C	17#	11900'	7-7/8"	2000 sx Interfil/PermTOC 800'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS-CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	11970'	11970'

31. PERFORATION RECORD (Interval, size and number)

12022-12146 6spf Broke dwn perms w 15 bbls 7% KCL

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION 8-01-03 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST 8-12-03 HOURS TESTED 24 hours CHOKER SIZE 48/64" PROD'N. FOR TEST PERIOD OIL—BBL. 0- GAS—MCF. 2243 WATER—BBL. -3- GAS-OIL RATIO

FLOW. TUBING PRESS. 430 CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. 0- GAS—MCF. 2243 WATER—BBL. -3- OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Bold, used for fuel, vented, etc.) Sold TEST WITNESSED BY

35. LIST OF ATTACHMENTS

NM C-122, Electric log and Inclination Summary

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

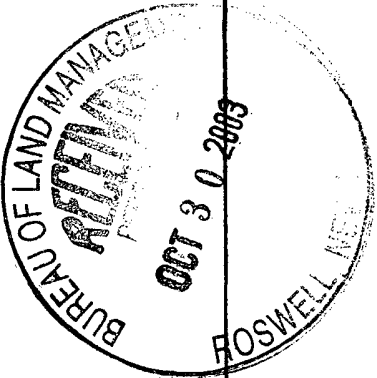
Zeno Farris

TITLE Manager Operations Admin.

DATE 9-04-03

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

37. SUMMARY OF POROUS ZONES: (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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Strawn	10590'	
Atoka	11142'	
Morrow	11552'	

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

RECEIVED

NOV - 7 2003

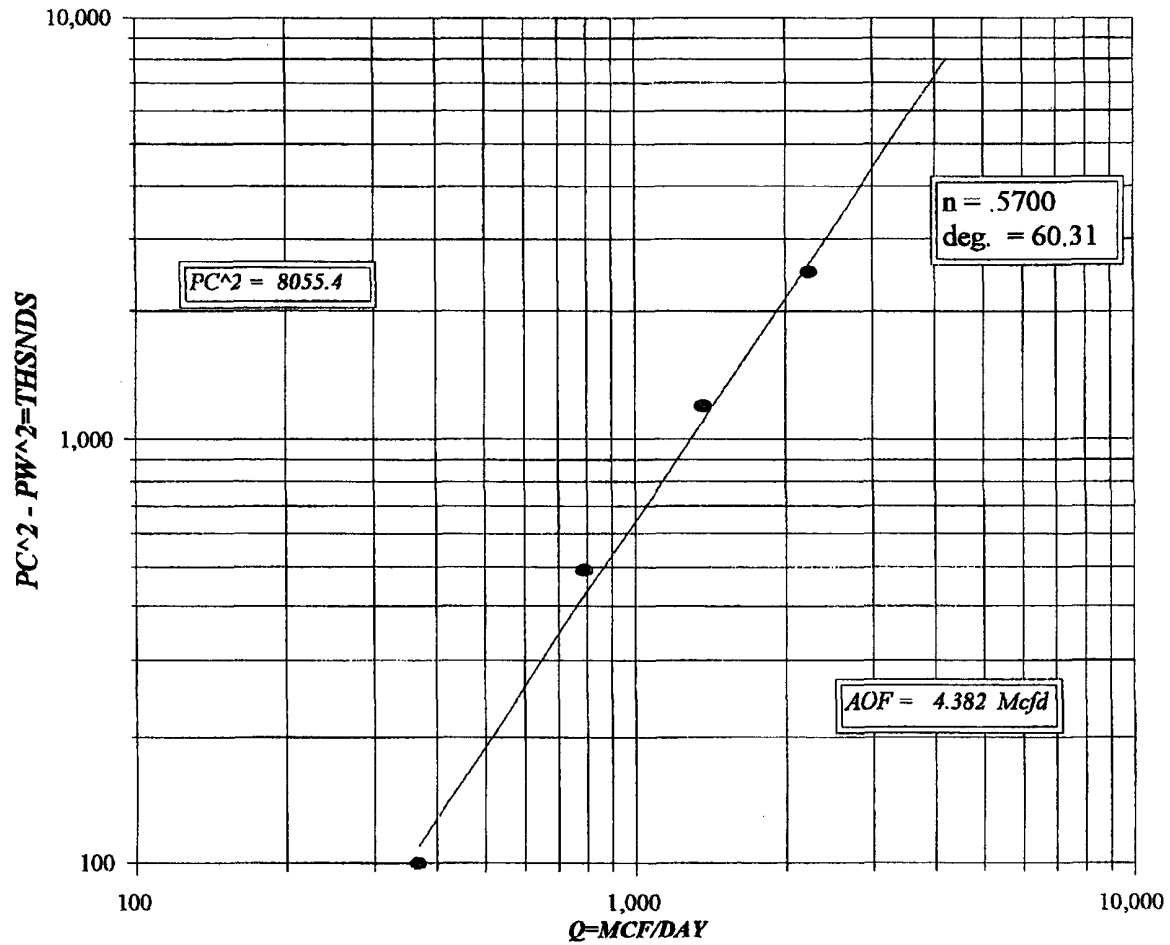
OCD-ARTESIA

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PET MANAGEMENT				Lease or Unit Name MOBIL 12 FED			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8/12/03		Well No. 2	
Completion Date 8/1/03		Total Depth 12199		Plug Back TD 12174		Elevation 3252 GL	
Unit Ltr - Sec - TWP - Rge D 12 23S 26E							
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12199	Perforations: From: 12022 To: 12146		County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11970	Perforations: From: To:		Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11970		Formation MORROW	
Producing Thru TBG		Reservoir Temp. 193		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
Connection SALES							
L 11970	H 11970	Gg 0.584	%CO ₂ 1.199	%N ₂ 0.269	%H ₂ S	Prover	Meter Run 4.026
Taps FLG							
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp.	Press p.s.i.g.	Temp.
SI						2825	
1	4.026 X 2.375		184	0.5	88	2807	
2	4.026 X 2.375		183	2.2	79	2736	
3	4.026 X 2.375		218	5.6	75	2600	
4	4.026 X 2.375		227	14.1	69	2332	
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd
1							368
2	TOTAL	FLOW	METER				794
3							1375
4							2243
5							
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A		Mcft/bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons N/A		Deg.
2					Specific Gravity Separator Gas 0.584		XXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid N/A		XXXXXX
4					Critical Pressure 675		P.S.I.A. P.S.I.A.
5					Critical Temperature 346		R. R.
P _c 2832.2		P _w 8055.4					
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = 3.238$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.954$		
1		2820.5	7955.4	100			
2		2750.8	7566.8	488.6			
3		2618.1	6854.6	1200.8			
4		2359.6	5567.8	2487.6			
5							
Absolute Open Flow 4.382				Mcfd @ 15.025		Angle of Slope (°): 60.31	
						Slope n: 0.57	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: pro well testing		Calculated By: MERV BUECKER		Checked By: MB	

GRUY PET. MANAGEMENT
MOBIL 12 FED #2



C122D FORM IMPORTED FROM SYMPHONY ON 9-9-01

COMPANY : GRUY PET. MANAGEMENT CO		LEASE : MOBIL 12 FED		WELL NO. : 2		Pc = 2838.2		Pc2 = 8055.4	
UNIT : D		SECTION : 12		TOWNSHIP : 23S		P12 = 7953.5		Pw = 2820.5	
L : 11970		H : 11970		L/H : 1		DATE : 8/12/03		7558.1	
%CO2 : 1.199		%N2 : 0.269		H2S : 0.584		RANGE : 26E		2618.1	
d : 2.441		Fr : 0.010763		GH : 8197.0				2359.6	
VOL 1 : 368		PSIA 1 : 2820.2		RESV.TEMP : 193.0		Pc2-Pw2 = 100.0		Pw2 = 7955.4	
VOL 2 : 794		PSIA 2 : 2749.2				488.6		7566.8	
VOL 3 : 1375		PSIA 3 : 2613.2		SHUT-IN PREI = 2838.2		1200.8		5854.6	
VOL 4 : 2243		PSIA 4 : 2345.2				2487.6		5567.8	
PCR : 675		TCR : 346				n = 0.670			
LINE		RATE 1		RATE 2		RATE 3		RATE 4	
		1ST		2ND		1ST		2ND	
1	QM	0.368	0.368	0.794	0.794	1.375	1.375	2.243	2.243
2	TW	534	534	534	534	534	534	534	534
3	Ts	653.0	653.0	653.0	653.0	653.0	653.0	653.0	653.0
4	T	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5
5	PR (est)	4.18	4.07	4.07	3.87	3.87	3.47	3.47	3.47
6	Z(est)	0.852	0.868	0.851	0.865	0.849	0.859	0.847	0.851
7	TZ	505.8	515.1	505.0	513.2	508.7	510.0	502.7	505.3
8	GH/TZ	16.204	15.914	16.232	15.971	16.273	16.072	16.305	16.223
9	eS	1.836	1.816	1.838	1.820	1.841	1.827	1.843	1.837
10	Le-S	0.455	0.449	0.456	0.451	0.457	0.453	0.457	0.456
11	PI	2820.2	2820.2	2749.2	2749.2	2613.2	2613.2	2345.2	2345.2
12	PI2 /1000	7953.5	7953.5	7558.1	7558.1	6828.8	6828.8	5500.0	5500.0
13	Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763
14	Fc=FTZ	5.444	5.544	5.435	5.524	5.422	5.489	5.411	5.438
15	FcQm	2.00	2.04	4.32	4.39	7.46	7.55	12.14	12.20
16	L/H(FcQm)2	4.0	4.2	18.6	19.2	55.6	57.0	147.3	148.8
17	Fw	1.8280096	1.8705709	8.4916936	8.6680109	25.384477	25.788743	67.375435	67.8147909
18	Pw2	7955.4	7955.4	7566.6	7566.8	6854.2	6854.6	5567.3	5567.8
19	Ps2	14607.2	14448.8	13907.5	13772.8	12617.5	12523.6	10261.2	10230.2
20	Pa	3821.9	3801.2	3729.3	3711.2	3552.1	3538.9	3203.3	3198.5
21	P	3321.1	3310.7	3239.2	3230.2	3082.7	3076.0	2774.3	2771.8
22	Pr	4.92	4.90	4.80	4.79	4.57	4.56	4.11	4.11
23	Tr	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
24	Z	0.868	0.867	0.865	0.864	0.859	0.859	0.851	0.851

FORM C122-D

**Laboratory Services, Inc.**

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE:
IDENTIFICATION: Mobil Fed. 12 #2
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 8/12/03 11:00 am
ANALYSIS DATE: 8/13/03
PRESSURE - PSIG 200
SAMPLE TEMP. °F 70
ATMOS. TEMP. °F 90

GAS (XX) LIQUID ()
SAMPLED BY: J. Rice
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.269	
Carbon Dioxide (CO2)	1.199	
Methane (C1)	96.232	
Ethane (C2)	1.791	0.478
Propane (C3)	0.195	0.054
I-Butane (IC4)	0.038	0.012
N-Butane (NC4)	0.032	0.010
I-Pentane (IC5)	0.020	0.007
N-Pentane (NC5)	0.020	0.007
Hexane Plus (C6+)	0.204	0.089
	100.000	0.657

BTU/CU.FT. - DRY 1022
AT 14.650 DRY 1019
AT 14.650 WET 1001
AT 14.73 DRY 1024
AT 14.73 WET 1007

MOLECULAR WT. 16.9216

SPECIFIC GRAVITY -
CALCULATED 0.584
MEASURED

OPERATOR: GRUY PETROLEUM
WELL/LEASE: MOBIL 12 FED. 2
COUNTY: EDDY

080-0016

STATE OF NEW MEXICO
DEVIATION REPORT

204	1/2
430	3/4
631	1 1/4
800	1 1/2
989	1 1/2
1,212	2
1,435	2 1/4
1,622	2
1,810	2
2,012	2
2,269	2 1/4
2,534	1 3/4
2,739	1 3/4
3,200	1
3,693	1 1/4
4,198	3/4
4,750	3/4
5,151	1 1/4
5,593	3/4
6,123	2 1/2
6,609	1 1/2
7,118	3/4
7,595	2 1/2

RECEIVED

NOV - 7 2003

OCD-ARTESIA

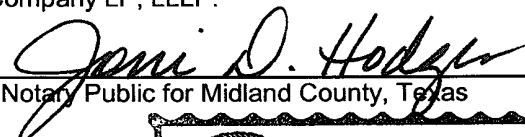
By: 

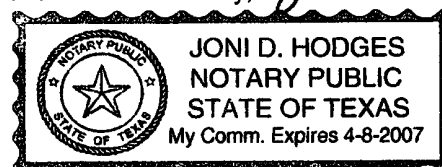
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 16th day of June, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

My Commission Expires: 4/08/2007


Notary Public for Midland County, Texas





**Magnum Hunter Resources
New Mexico
Lea County
Mobil 12 Fed Com - MWD Surveys**

Sperry-Sun

Survey Report

12 June, 2003

Data Source: Information from Location

Survey Ref: svy6508

RECEIVED

NOV - 7 7003

OCD-ARTESIA

HALLIBURTON

Survey Report for Mobil 12 Fed Com - MWD Surveys

Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station TVD (ft)	Coordinates Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
8088.00	1.530	43.590	8049.90	32.20 N	161.50 E	124.82		
8179.00	1.130	83.030	8140.88	33.19 N	163.23 E	125.83	1.07	1st MWD Survey @ 8179' md
8211.00	1.490	91.470	8172.87	33.22 N	163.96 E	126.46	1.27	
8242.00	2.250	103.850	8203.85	33.06 N	164.95 E	127.40	2.76	
8274.00	2.970	103.640	8235.82	32.71 N	166.37 E	128.80	2.25	
8306.00	2.580	110.150	8267.78	32.27 N	167.85 E	130.31	1.57	
8338.00	2.640	112.660	8299.75	31.74 N	169.20 E	131.75	0.40	
8369.00	3.290	112.720	8330.71	31.12 N	170.68 E	133.34	2.10	
8401.00	4.080	118.240	8362.64	30.23 N	172.53 E	135.39	2.70	
8433.00	4.860	120.860	8394.54	28.99 N	174.70 E	137.89	2.52	
8464.00	5.540	123.360	8425.41	27.50 N	177.08 E	140.69	2.31	
8496.00	6.050	123.800	8457.25	25.71 N	179.77 E	143.92	1.60	
8528.00	6.700	125.060	8489.05	23.70 N	182.70 E	147.46	2.08	
8560.00	7.120	122.940	8520.82	21.55 N	185.89 E	151.29	1.54	
8591.00	7.880	124.110	8551.56	19.31 N	189.26 E	155.33	2.50	
8623.00	8.610	127.670	8583.22	16.62 N	192.98 E	159.89	2.78	
8655.00	8.880	125.620	8614.85	13.72 N	196.88 E	164.71	1.29	
8687.00	9.210	121.780	8646.45	10.93 N	201.06 E	169.73	2.15	
8719.00	9.690	118.890	8678.02	8.28 N	205.60 E	174.98	2.11	
8750.00	10.000	119.790	8708.56	5.68 N	210.22 E	180.28	1.12	
8782.00	10.600	120.170	8740.05	2.82 N	215.17 E	186.00	1.89	
8814.00	10.850	120.820	8771.49	0.20 S	220.31 E	191.95	0.87	
8845.00	11.360	121.080	8801.91	3.27 S	225.43 E	197.92	1.65	
8877.00	10.930	124.270	8833.31	6.61 S	230.63 E	204.10	2.35	
8909.00	11.520	121.030	8864.69	9.96 S	235.88 E	210.31	2.70	
8941.00	11.430	121.710	8896.05	13.28 S	241.31 E	216.68	0.51	
8973.00	12.570	119.830	8927.35	16.68 S	247.03 E	223.33	3.77	
9004.00	12.990	121.810	8957.59	20.19 S	252.92 E	230.18	1.96	
9036.00	13.100	123.460	8988.76	24.09 S	259.00 E	237.39	1.21	
9068.00	12.540	123.800	9019.96	28.02 S	264.91 E	244.47	1.77	
9100.00	12.180	124.540	9051.22	31.86 S	270.58 E	251.30	1.23	
9132.00	12.090	122.820	9082.51	35.59 S	276.18 E	258.01	1.16	
9163.00	12.300	123.460	9112.81	39.17 S	281.66 E	264.54	0.81	
9195.00	12.740	121.170	9144.05	42.88 S	287.52 E	271.47	2.07	
9227.00	12.740	119.940	9175.26	46.47 S	293.60 E	278.52	0.85	
9258.00	12.300	118.180	9205.52	49.73 S	299.47 E	285.24	1.88	
9290.00	12.220	114.140	9236.79	52.73 S	305.57 E	292.02	2.69	
9322.00	12.830	112.030	9268.03	55.44 S	311.95 E	298.92	2.38	
9354.00	14.240	114.670	9299.14	58.42 S	318.82 E	306.36	4.81	
9386.00	14.850	115.720	9330.12	61.84 S	326.09 E	314.38	2.08	
9418.00	15.030	116.600	9361.03	65.48 S	333.50 E	322.61	0.90	
9449.00	16.080	115.200	9390.90	69.11 S	340.98 E	330.91	3.60	
9481.00	17.310	116.950	9421.55	73.15 S	349.23 E	340.09	4.15	
9513.00	18.020	116.250	9452.04	77.50 S	357.91 E	349.78	2.32	
9545.00	18.630	117.310	9482.42	82.03 S	366.89 E	359.83	2.17	

Survey Report for Mobil 12 Fed Com - MWD Surveys

Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station TVD (ft)	Coordinates Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
9577.00	19.600	117.830	9512.65	86.88 S	376.18 E	370.31	3.08	
9608.00	20.920	115.720	9541.73	91.71 S	385.77 E	381.03	4.87	
9640.00	21.450	115.020	9571.57	96.67 S	396.22 E	392.56	1.84	
9672.00	22.500	115.720	9601.25	101.80 S	407.03 E	404.51	3.38	
9767.00	25.430	118.330	9688.05	119.37 S	441.37 E	443.05	3.28	
9799.00	24.430	118.640	9717.07	125.80 S	453.23 E	456.54	3.15	
9863.00	23.640	120.120	9775.52	138.59 S	475.94 E	482.60	1.55	
9935.00	25.580	121.700	9840.98	154.00 S	501.66 E	512.57	2.84	
9958.00	25.400	120.820	9861.74	159.14 S	510.12 E	522.46	1.82	
9989.00	25.220	121.520	9889.76	166.00 S	521.46 E	535.71	1.13	
10021.00	23.910	122.400	9918.86	173.04 S	532.75 E	549.00	4.25	
10053.00	22.960	122.760	9948.22	179.89 S	543.47 E	561.71	3.00	
10085.00	22.500	122.400	9977.74	186.55 S	553.89 E	574.05	1.50	
10116.00	22.150	122.400	10006.42	192.86 S	563.83 E	585.81	1.13	
10148.00	21.180	123.460	10036.15	199.28 S	573.75 E	597.60	3.27	
10211.00	21.270	122.230	10094.88	211.65 S	592.91 E	620.37	0.72	
10243.00	22.150	120.290	10124.61	217.78 S	603.03 E	632.20	3.55	
10274.00	21.970	120.470	10153.34	223.67 S	613.07 E	643.84	0.62	
10338.00	22.240	119.940	10212.64	235.79 S	633.89 E	667.92	0.52	
10370.00	23.550	121.000	10242.12	242.10 S	644.61 E	680.37	4.29	
10434.00	24.700	121.350	10300.53	255.64 S	666.99 E	706.51	1.81	
10465.00	25.050	120.470	10328.65	262.34 S	678.18 E	719.55	1.64	
10506.00	25.200	120.400	10365.77	271.16 S	693.19 E	736.96	0.37	
10539.00	24.200	119.750	10395.75	278.07 S	705.12 E	750.74	3.14	
10571.00	23.200	119.240	10425.05	284.41 S	716.32 E	763.61	3.19	
10630.00	22.940	120.470	10479.33	295.91 S	736.37 E	786.72	0.93	
10662.00	22.940	121.520	10508.80	302.34 S	747.06 E	799.19	1.28	
10693.00	23.670	124.160	10537.27	308.99 S	757.36 E	811.43	4.11	
10725.00	24.270	125.860	10566.51	316.45 S	768.00 E	824.37	2.86	
10757.00	23.800	126.970	10595.74	324.18 S	778.49 E	837.30	2.04	
10789.00	23.010	127.490	10625.11	331.87 S	788.61 E	849.90	2.55	
10820.00	22.530	128.000	10653.69	339.22 S	798.10 E	861.77	1.67	
10852.00	23.290	128.380	10683.17	346.92 S	807.89 E	874.08	2.42	
10916.00	25.050	130.660	10741.56	363.61 S	828.09 E	899.87	3.11	
10947.00	24.870	129.960	10769.66	372.07 S	838.07 E	912.72	1.12	
10979.00	24.350	130.310	10798.75	380.66 S	848.25 E	925.82	1.69	
11042.00	24.960	128.910	10856.01	397.41 S	868.50 E	951.68	1.34	
11106.00	25.220	128.030	10913.97	414.29 S	889.75 E	978.48	0.71	
11138.00	25.050	129.080	10942.94	422.76 S	900.38 E	991.90	1.49	
11170.00	24.430	128.560	10972.00	431.16 S	910.81 E	1005.12	2.05	
11233.00	24.260	128.560	11029.40	447.35 S	931.12 E	1030.76	0.27	
11297.00	25.220	129.610	11087.53	464.23 S	951.91 E	1057.16	1.65	
11360.00	26.190	129.610	11144.29	481.66 S	972.96 E	1084.06	1.54	
11392.00	26.020	131.540	11173.03	490.81 S	983.65 E	1097.87	2.71	
11424.00	25.220	130.840	11201.88	499.93 S	994.06 E	1111.42	2.67	

Survey Report for Mobil 12 Fed Com - MWD Surveys

Data Source: Information from Location

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
11455.00	25.140	129.960	11229.94	508.47 S	1004.11 E	1124.37	1.24	
11487.00	25.400	130.310	11258.87	517.28 S	1014.55 E	1137.79	0.94	
11551.00	24.870	129.790	11316.81	534.77 S	1035.36 E	1164.51	0.90	
11646.00	24.960	130.490	11402.97	560.57 S	1065.95 E	1203.83	0.32	
11709.00	24.700	127.850	11460.15	577.28 S	1086.46 E	1229.90	1.81	
11773.00	23.910	127.680	11518.48	593.41 S	1107.28 E	1255.97	1.24	
11837.00	23.550	127.680	11577.07	609.16 S	1127.66 E	1281.46	0.56	
11900.00	23.200	127.680	11634.90	624.43 S	1147.45 E	1306.19	0.56	
11963.00	22.320	128.560	11692.99	639.48 S	1166.62 E	1330.29	1.50	
12026.00	21.270	130.140	11751.49	654.30 S	1184.71 E	1353.33	1.91	
12089.00	20.130	131.190	11810.42	668.81 S	1201.61 E	1375.17	1.90	Last MWD Survey @ 12089' md
12206.00	20.130	131.190	11920.27	695.32 S	1231.91 E	1414.59	0.00	Projection to TD @ 12206' md

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to RKB. Northings and Eastings are relative to Wellhead.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Wellhead and calculated along an Azimuth of 119.442° (True).

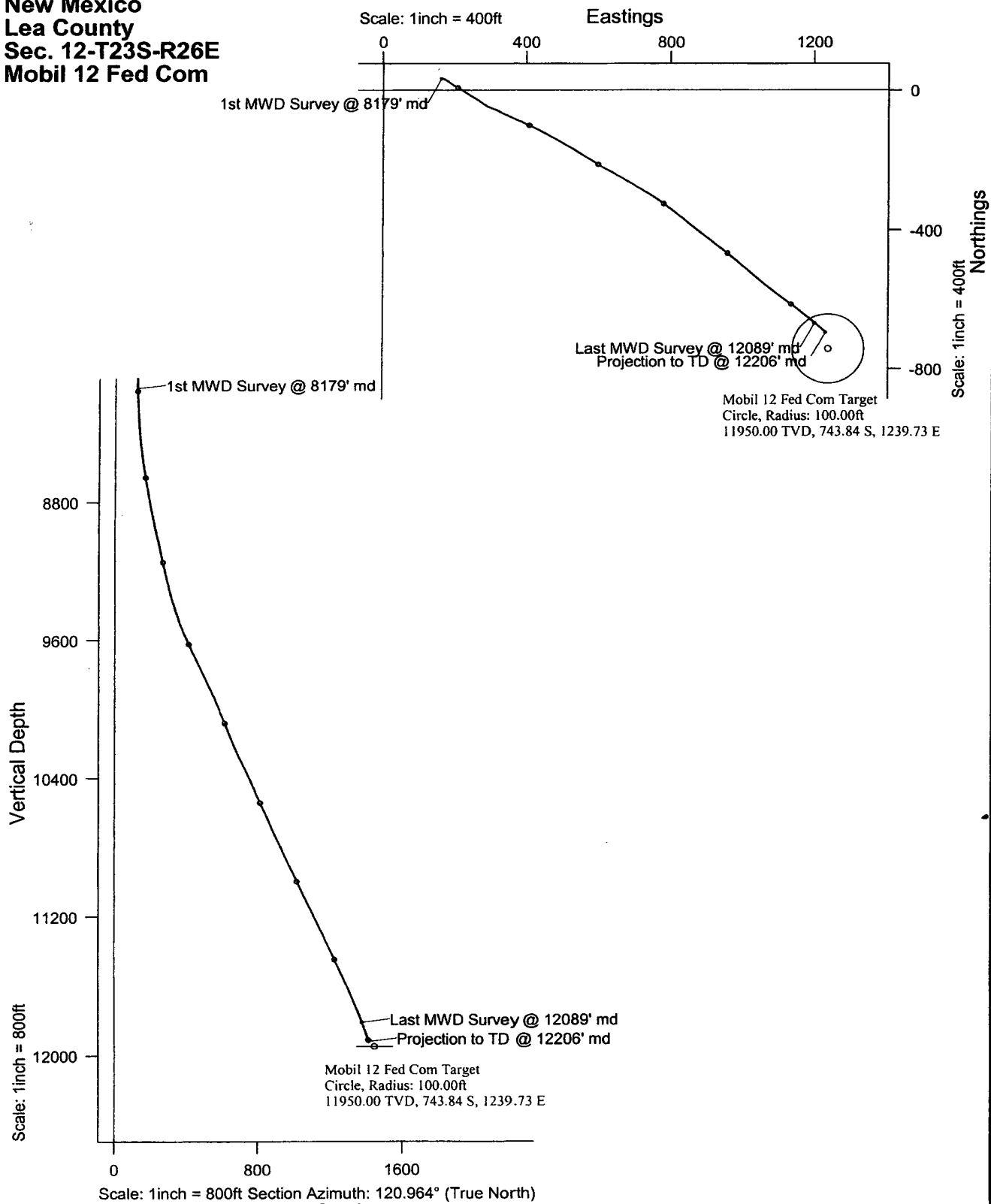
Magnetic Declination at Surface is 8.872° (13-May-03)

Based upon Minimum Curvature type calculations, at a Measured Depth of 12206.00ft., The Bottom Hole Displacement is 1414.59ft., in the Direction of 119.442° (True).

Comments

Measured Depth (ft)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Comment
8179.00	8140.88	33.19 N	163.23 E	1st MWD Survey @ 8179' md
12089.00	11810.42	668.81 S	1201.61 E	Last MWD Survey @ 12089' md
12206.00	11920.27	695.32 S	1231.91 E	Projection to TD @ 12206' md

New Mexico
Lea County
Sec. 12-T23S-R26E
Mobil 12 Fed Com



Mobil 12 Fed Com Target
Circle, Radius: 100.00ft
11950.00 TVD, 743.84 S, 1239.73 E

Date/Time:
12 June, 2003 - 9:57

Checked:

Approved:

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-32752	Pool Code	Pool Name Carlsbad; Morrow, South
Property Code	Property Name MOBIL 12 FEDERAL	Well Number 2
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT CO.	Elevation 3252'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	12	23-S	26-E		400	NORTH	330	WEST	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
C	12	23-S	26-E		1095	FNL	1562	FWL	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	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 16, 2003 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. FEBRUARY 13, 2003 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 2/14/03 03.11.0188 Certificate No. RONALD J. EIDSON 3239 GARY EIDSON 12641

RECEIVED

NOV - 7 2003

OCD-ARTESIA