

Oil Cons.
N.M. Div. Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991
LEASE DESIGNATION AND SERIAL NO.

NMNM92160

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other _____		7. UNIT AGREEMENT NAME Pending	
2. NAME OF OPERATOR Gruy Petroleum Management Co.		8. FARM OR LEASE NAME, WELL NO. Chosa Draw 27 Fed Com No. 1	
3. ADDRESS AND TELEPHONE NO. P O Box 140907 Irving Tx. 75014-0907		9. API WELL NO. 30-015-32918	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 330' FNL & 1980' FEL At top prod. interval reported below 1065' FNL & 1803' FEL At total depth 1817' FNL & 1613' FEL		10. FIELD AND POOL, OR WILDCAT Strawn Undesignated	
14. PERMIT NO. _____ DATE ISSUED _____		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 27; T25S; R26E	
15. DATE SPUDDED 08-20-03		12. COUNTY OR PARISH Eddy	
16. DATE T.D. REACHED 10-02-03		13. STATE NM	
17. DATE COMPL. (Ready to prod.) 01-30-04		19. ELEV. CASINGHEAD	
18. ELEVATIONS (DP, RKB, RT, GR, ETC.)* 3265' GR		20. TOTAL DEPTH, MD & TVD 12300 MD 12020 TVD	
21. PLUG, BACK T.D., MD & TVD 10475' MD 10355' TVD		22. IF MULTIPLE COMPL., HOW MANY* →	
23. INTERVALS DRILLED BY →		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Strawn Undesignated 10372' - 10412' MD Strawn Undesignated 10259' - 10297' TVD	
25. WAS DIRECTIONAL SURVEY MADE Yes		26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Spaced Neutron & DLL Microguard	
27. WAS WELL CORRED No		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
35. LIST OF ATTACHMENTS		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 Administration DATE February 26, 2004

ACCEPTED FOR RECORD
MAY 9 2004
LES BABYAK
PETROLEUM ENGINEER

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

Title 18 U.S.C. Section 1001, makes 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.

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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Strawn	10579	
				Atoka	11215'	
				Morrow	11600'	

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

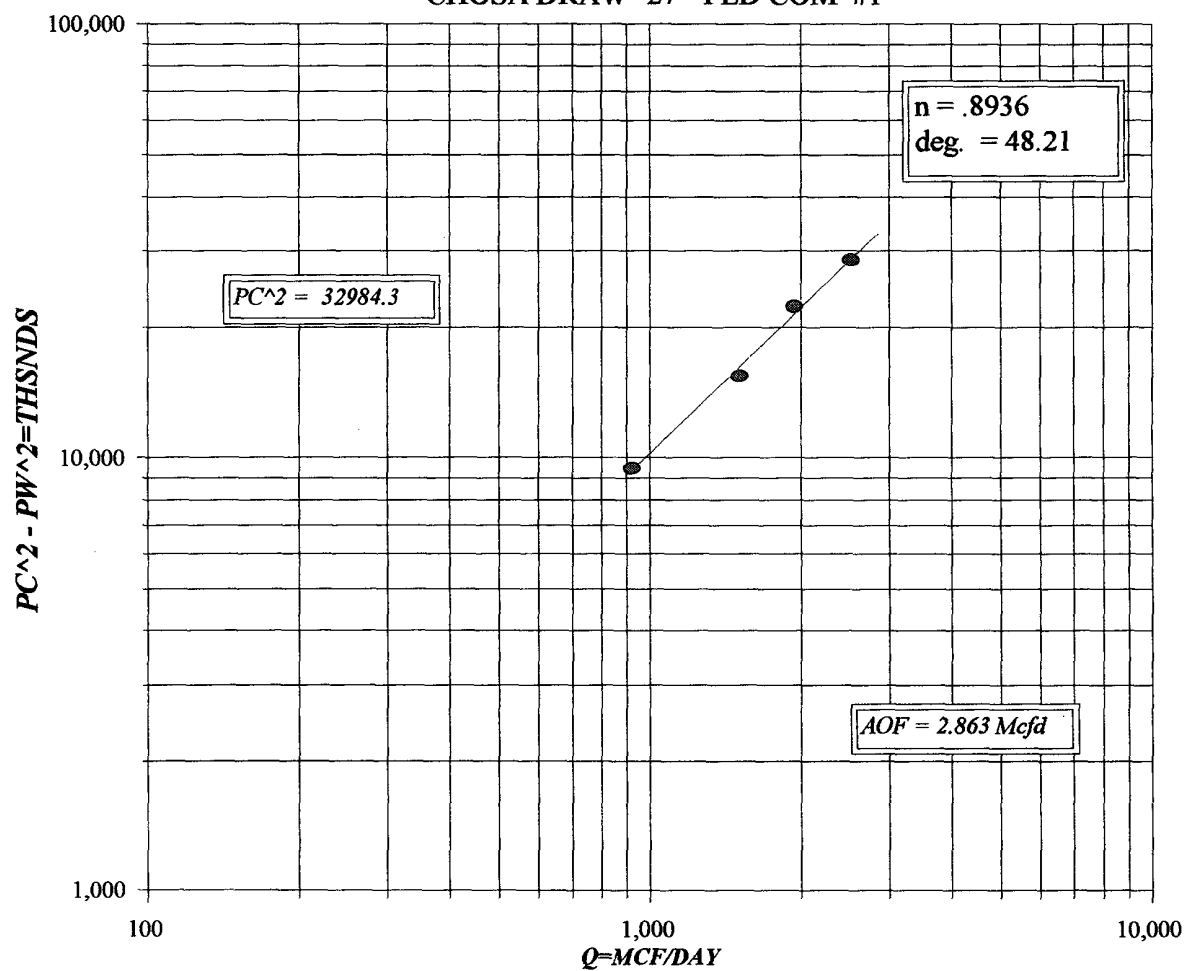
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PET.MANAG.CO.					Lease or Unit Name CHOSA DRAW 27 FED COM				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2/3/04		Well No. 1		
Completion Date 1/29/04		Total Depth 12300		Plug Back TD 10475		Elevation 3265GL		Unit Ltr - Sec - TWP - Rge B 27 25S 26E	
Csg. Size 7	Wt. 26	d 6.276	Set At 10795	Perforations: From: 10372 To: 10412			County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10139	Perforations: From: To:			Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10139			Formation STRAWN		
Producing Thru TUBING		Reservoir Temp. 175		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		Connection SALES	
L 10139	H 10139	Gg 0.627	%CO ₂ 0.675	%N ₂ 0.532	%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.	Press p.s.i.g.	Temp.
SI						5730			
1	4.026 X 1.500		453	11	83	4832			1 HRS
2	4.026 X 1.500		506	23	80	4169			1 HRS
3	4.026 X 1.500		568	37	78	3228			1 HRS
4	4.026 X 1.500		631	49	74	2050			1 HRS
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								926	
2	TOTAL		FLOW	METER				1515	
3								1946	
4								2524	
5									
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio				Mcft bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons				Deg.
2					Specific Gravity Separator Gas				0.627 XXXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid				XXXXXX
4					Critical Pressure				674 P.S.I.A. P.S.I.A.
5					Critical Temperature				361 R. R.
P _c 5743.2 P _{c2} 32984.3					$(1) \quad \frac{P_c^2}{P_c^2 - P_w^2} = 1.151$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.863$ $(2) \quad \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.134$				
No.	P _t	P _w	P _w ²	P _c ² - P _w ²					
1		4846.6	23489.9	9494.4					
2		4186.3	17525.2	15459.1					
3		3249.1	10556.4	22427.9					
4		2082.3	4336	28648.3					
5									
Absolute Open Flow 2.863					Mcfd @ 15.025		Angle of Slope (°): 48.21		Slope n: 0.8936
Remarks: * NO LIQUID MADE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM		

GRUY PET. MANAGEMENT
CHOSA DRAW "27" FED COM #1





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: Chosa Draw 27 Fed. Com. #1
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/2/04 12:00 pm
ANALYSIS DATE: 2/3/04
PRESSURE - PSIG 575
SAMPLE TEMP. °F 65
ATMOS. TEMP. °F 65

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

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.532	
Carbon Dioxide (CO2)	0.675	
Methane (C1)	90.400	
Ethane (C2)	6.061	1.617
Propane (C3)	1.063	0.292
I-Butane (IC4)	0.229	0.075
N-Butane (NC4)	0.273	0.086
I-Pentane (IC5)	0.131	0.048
N-Pentane (NC5)	0.101	0.036
Hexane Plus (C6+)	0.535	0.232
	100.000	2.386

BTU/CU.FT. - DRY 1098
AT 14.650 DRY 1095
AT 14.650 WET 1076
AT 14.73 DRY 1101
AT 14.73 WET 1082

MOLECULAR WT. 18.1915

SPECIFIC GRAVITY -
CALCULATED 0.627
MEASURED

OPERATOR: GRUY PETROLEUM
WELL/LEASE: CHOSA DRAW 27 FED. COM. 1
COUNTY: EDDY

075-0022

RECEIVED

OCT 17 2003

MAILROOM

**STATE OF NEW MEXICO
DEVIATION REPORT**

193	1/4
431	1
785	1/4
1,139	2 1/4
1,295	1 1/2
1,508	1
1,673	1
1,956	1
2,241	3/4
2,715	1
3,200	1 1/2
3,571	1/4
4,071	3/4
4,552	2
4,710	1 1/2
4,994	3/4
5,469	1/4
5,944	1 3/4
6,164	2
6,418	1 1/4
6,545	1
7,020	1 1/4
7,495	1 3/4
7,947	1 3/4

RECEIVED

MAR 15 2004

OCD-ARTESIA

By: *Steve Moore*

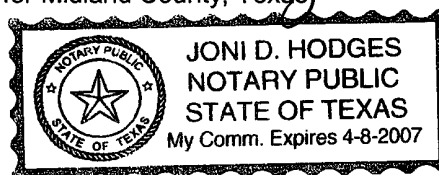
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 15th day of October, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

My Commission Expires: 4/08/2007

Joni D. Hodges
Notary Public for Midland County, Texas





**Gruy Petroleum Management Co.
New Mexico
Eddy County
Chosa Draw 27 Fed Com - MWD Surveys**

Sperry-Sun

Survey Report

6 October, 2003

Data Source: Information from Location

Survey Ref: svy6877

RECEIVED
MAR 15 2004
OCD-ARTESIA

HALLIBURTON

Survey Report for Chosa Draw 27 Fed Com
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
Gyro Surveys								
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
100.00	0.190	33.350	100.00	0.14 N	0.09 E	-0.11	0.19	
200.00	0.330	24.990	200.00	0.54 N	0.30 E	-0.45	0.14	
300.00	0.430	19.690	300.00	1.15 N	0.55 E	-0.98	0.11	
400.00	0.460	24.230	399.99	1.87 N	0.84 E	-1.61	0.05	
500.00	0.480	18.120	499.99	2.64 N	1.14 E	-2.28	0.05	
600.00	0.550	18.270	599.99	3.49 N	1.42 E	-3.04	0.07	
700.00	0.600	16.680	699.98	4.45 N	1.72 E	-3.90	0.05	
800.00	0.670	13.600	799.97	5.52 N	2.01 E	-4.87	0.08	
900.00	0.760	13.580	899.97	6.73 N	2.30 E	-5.97	0.09	
1000.00	0.860	15.940	999.96	8.10 N	2.66 E	-7.21	0.11	
1100.00	0.950	36.960	1099.94	9.48 N	3.37 E	-8.38	0.34	
1200.00	1.080	55.150	1199.93	10.68 N	4.64 E	-9.24	0.35	
1300.00	1.080	64.660	1299.91	11.62 N	6.26 E	-9.76	0.18	
1400.00	1.360	65.530	1399.89	12.52 N	8.20 E	-10.16	0.28	
1500.00	1.500	75.390	1499.86	13.34 N	10.54 E	-10.38	0.28	
1600.00	1.580	80.650	1599.82	13.89 N	13.17 E	-10.28	0.16	
1700.00	1.210	83.470	1699.79	14.24 N	15.58 E	-10.03	0.38	
1800.00	1.040	83.410	1799.77	14.46 N	17.53 E	-9.78	0.17	
1900.00	0.830	82.440	1899.76	14.66 N	19.15 E	-9.58	0.21	
2000.00	0.910	77.490	1999.75	14.93 N	20.64 E	-9.47	0.11	
2100.00	0.720	81.390	2099.74	15.19 N	22.04 E	-9.39	0.20	
2200.00	0.580	82.300	2199.73	15.36 N	23.16 E	-9.28	0.14	
2300.00	0.490	82.810	2299.73	15.48 N	24.09 E	-9.17	0.09	
2400.00	0.450	85.900	2399.72	15.56 N	24.90 E	-9.05	0.05	
2500.00	0.350	86.910	2499.72	15.60 N	25.60 E	-8.93	0.10	
2600.00	0.260	120.090	2599.72	15.51 N	26.10 E	-8.71	0.19	
2700.00	0.290	137.380	2699.72	15.21 N	26.47 E	-8.33	0.09	
2800.00	0.310	151.950	2799.72	14.78 N	26.77 E	-7.85	0.08	
2900.00	0.330	156.450	2899.72	14.28 N	27.01 E	-7.30	0.03	
3000.00	0.360	166.020	2999.71	13.71 N	27.20 E	-6.70	0.06	
3100.00	0.340	181.640	3099.71	13.11 N	27.27 E	-6.10	0.10	
3200.00	0.310	193.230	3199.71	12.55 N	27.20 E	-5.58	0.07	
3300.00	0.290	199.760	3299.71	12.05 N	27.05 E	-5.13	0.04	
3400.00	0.320	210.220	3399.71	11.57 N	26.82 E	-4.71	0.06	
3500.00	0.340	219.370	3499.71	11.10 N	26.50 E	-4.34	0.06	
3600.00	0.330	220.930	3599.70	10.65 N	26.12 E	-4.00	0.01	
3700.00	0.310	220.820	3699.70	10.23 N	25.75 E	-3.67	0.02	
3800.00	0.300	217.950	3799.70	9.82 N	25.41 E	-3.36	0.02	
3900.00	0.290	204.460	3899.70	9.38 N	25.15 E	-3.00	0.07	

Survey Report for Chosa Draw 27 Fed Com

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
4000.00	0.400	183.220	3999.70	8.80 N	25.02 E	-2.47	0.17	
4100.00	0.550	185.040	4099.69	7.97 N	24.96 E	-1.68	0.15	
4200.00	0.620	179.090	4199.69	6.96 N	24.93 E	-0.70	0.09	
4300.00	0.770	183.610	4299.68	5.74 N	24.90 E	0.47	0.16	
4400.00	0.830	180.750	4399.67	4.35 N	24.84 E	1.81	0.07	
4500.00	1.010	180.860	4499.66	2.74 N	24.82 E	3.36	0.18	
4600.00	1.140	181.820	4599.64	0.87 N	24.78 E	5.17	0.13	
4700.00	1.150	185.090	4699.62	1.13 S	24.66 E	7.07	0.07	
4800.00	1.210	180.040	4799.60	3.18 S	24.57 E	9.05	0.12	
4900.00	1.050	177.730	4899.58	5.15 S	24.60 E	10.97	0.17	
5000.00	1.020	174.090	4999.57	6.95 S	24.73 E	12.74	0.07	
5100.00	1.130	174.400	5099.55	8.82 S	24.92 E	14.60	0.11	
5200.00	1.200	173.770	5199.53	10.84 S	25.13 E	16.61	0.07	
5300.00	1.340	185.780	5299.50	13.05 S	25.12 E	18.75	0.30	
5400.00	1.750	208.220	5399.47	15.56 S	24.28 E	20.98	0.72	
5500.00	1.710	191.490	5499.42	18.36 S	23.26 E	23.46	0.50	
5600.00	1.030	191.750	5599.39	20.71 S	22.78 E	25.61	0.68	
5700.00	1.120	200.490	5699.37	22.50 S	22.26 E	27.23	0.19	
5800.00	1.420	203.360	5799.35	24.55 S	21.43 E	29.02	0.31	
5900.00	1.390	188.380	5899.32	26.89 S	20.76 E	31.12	0.37	
6000.00	1.910	181.470	5999.28	29.76 S	20.54 E	33.85	0.56	
6100.00	2.310	170.400	6099.21	33.41 S	20.83 E	37.47	0.57	
6200.00	2.200	155.630	6199.13	37.15 S	21.96 E	41.36	0.59	
6300.00	2.110	147.850	6299.06	40.45 S	23.73 E	45.00	0.31	
6400.00	1.590	149.310	6399.01	43.20 S	25.42 E	48.08	0.52	
6500.00	1.160	156.480	6498.98	45.33 S	26.53 E	50.41	0.46	
6600.00	1.070	162.880	6598.96	47.15 S	27.21 E	52.34	0.15	
6700.00	1.060	167.590	6698.95	48.94 S	27.68 E	54.20	0.09	
6800.00	1.170	168.860	6798.93	50.85 S	28.08 E	56.14	0.11	
6900.00	1.510	173.230	6898.90	53.16 S	28.43 E	58.47	0.35	
7000.00	1.710	187.470	6998.86	55.94 S	28.39 E	61.16	0.45	
7100.00	1.990	192.670	7098.81	59.12 S	27.82 E	64.10	0.33	
7200.00	2.160	196.380	7198.74	62.62 S	26.91 E	67.28	0.22	
7300.00	2.370	195.570	7298.67	66.42 S	25.82 E	70.70	0.21	
7400.00	2.190	202.260	7398.59	70.18 S	24.54 E	74.04	0.32	
7500.00	1.140	245.160	7498.55	72.37 S	22.91 E	75.76	1.56	
7600.00	0.860	257.970	7598.53	72.94 S	21.28 E	75.92	0.36	
7700.00	1.330	239.300	7698.51	73.69 S	19.55 E	76.23	0.58	
7800.00	2.060	232.760	7798.47	75.37 S	17.12 E	77.27	0.75	
7900.00	2.100	220.560	7898.40	77.85 S	14.49 E	79.04	0.44	Last Gyro Survey @ 7900' md

Survey Report for Chosa Draw 27 Fed Com
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
MWD Surveys								
7911.00	2.070	215.570	7909.40	78.16 S	14.25 E	79.29	1.67	1st MWD Survey @ 7911' md
7942.00	2.640	213.430	7940.37	79.21 S	13.53 E	80.13	1.86	
7974.00	3.550	196.580	7972.32	80.78 S	12.84 E	81.48	3.99	
8006.00	4.570	190.270	8004.24	82.98 S	12.33 E	83.50	3.48	
8038.00	5.490	188.300	8036.12	85.75 S	11.88 E	86.07	2.92	
8069.00	6.050	187.480	8066.96	88.84 S	11.46 E	88.96	1.83	
8101.00	6.590	188.230	8098.77	92.33 S	10.97 E	92.23	1.71	
8132.00	7.070	184.200	8129.55	95.99 S	10.58 E	95.69	2.19	
8164.00	7.640	178.920	8161.28	100.08 S	10.47 E	99.63	2.76	
8195.00	8.380	175.010	8191.98	104.39 S	10.71 E	103.87	2.96	
8227.00	8.820	170.460	8223.62	109.14 S	11.32 E	108.62	2.53	
8259.00	9.380	166.110	8255.22	114.09 S	12.35 E	113.68	2.77	
8323.00	10.070	164.290	8318.30	124.54 S	15.12 E	124.48	1.18	
8386.00	10.430	162.230	8380.29	135.27 S	18.35 E	135.68	0.82	
8450.00	11.430	158.170	8443.13	146.67 S	22.48 E	147.74	1.97	
8544.00	11.780	160.100	8535.21	164.34 S	29.21 E	166.52	0.56	
8608.00	11.950	161.510	8597.84	176.77 S	33.53 E	179.62	0.53	
8671.00	12.660	162.920	8659.40	189.55 S	37.63 E	193.02	1.22	
8735.00	13.360	163.620	8721.75	203.35 S	41.77 E	207.41	1.12	
8798.00	13.270	164.670	8783.06	217.31 S	45.74 E	221.91	0.41	
8830.00	13.270	164.670	8814.21	224.39 S	47.68 E	229.26	0.00	
8862.00	13.360	164.150	8845.35	231.49 S	49.66 E	236.62	0.47	
8894.00	13.800	164.500	8876.45	238.72 S	51.69 E	244.13	1.40	
8926.00	14.320	165.120	8907.49	246.23 S	53.73 E	251.91	1.69	
8958.00	14.240	167.660	8938.50	253.90 S	55.58 E	259.80	1.97	
8990.00	13.320	170.370	8969.58	261.38 S	57.04 E	267.41	3.51	
9022.00	13.010	173.530	9000.74	268.59 S	58.06 E	274.65	2.45	
9054.00	13.260	175.070	9031.91	275.83 S	58.78 E	281.85	1.34	
9086.00	14.010	173.390	9063.00	283.33 S	59.55 E	289.31	2.65	
9118.00	14.990	167.990	9093.99	291.23 S	60.85 E	297.29	5.22	
9150.00	16.350	160.460	9124.80	299.52 S	63.22 E	305.91	7.64	
9182.00	17.580	153.600	9155.41	308.09 S	66.88 E	315.11	7.34	
9214.00	17.400	152.190	9185.93	316.65 S	71.26 E	324.48	1.44	
9246.00	17.200	154.240	9216.48	325.15 S	75.55 E	333.76	2.00	
9278.00	17.960	156.160	9246.99	333.92 S	79.60 E	343.26	2.99	
9310.00	18.840	157.600	9277.35	343.21 S	83.56 E	353.23	3.09	
9342.00	19.710	159.030	9307.56	353.03 S	87.46 E	363.70	3.09	
9374.00	20.560	160.710	9337.60	363.37 S	91.25 E	374.65	3.21	
9404.00	21.380	163.090	9365.61	373.57 S	94.58 E	385.36	3.94	
9467.00	23.640	167.310	9423.82	396.89 S	100.69 E	409.46	4.41	

Survey Report for Chosa Draw 27 Fed Com
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
9532.00	24.260	170.650	9483.22	422.78 S	105.73 E	435.80	2.29	
9596.00	24.740	169.750	9541.46	448.93 S	110.25 E	462.27	0.95	
9660.00	24.800	169.220	9599.57	475.30 S	115.14 E	489.03	0.36	
9724.00	25.580	167.740	9657.48	501.98 S	120.58 E	516.24	1.57	
9788.00	25.210	165.070	9715.30	528.66 S	127.03 E	543.68	1.88	
9852.00	24.600	163.940	9773.35	554.63 S	134.23 E	570.62	1.21	
9915.00	24.040	164.980	9830.76	579.62 S	141.18 E	596.56	1.12	
9978.00	22.850	165.380	9888.56	603.85 S	147.59 E	621.62	1.91	
10041.00	21.000	166.190	9947.00	626.65 S	153.38 E	645.14	2.98	
10105.00	19.860	166.960	10006.97	648.38 S	158.57 E	667.48	1.83	
10137.00	18.980	166.260	10037.15	658.73 S	161.03 E	678.12	2.84	
10168.00	18.280	165.900	10066.53	668.34 S	163.41 E	688.02	2.29	
10200.00	18.540	166.960	10096.89	678.17 S	165.78 E	698.13	1.32	
10231.00	18.900	167.660	10126.25	687.87 S	167.97 E	708.07	1.37	
10263.00	19.250	169.070	10156.49	698.12 S	170.07 E	718.52	1.81	
10294.00	19.780	169.950	10185.71	708.30 S	171.96 E	728.86	1.96	
10326.00	20.210	169.950	10215.78	719.07 S	173.87 E	739.77	1.34	
10358.00	20.480	168.540	10245.79	730.00 S	175.94 E	750.88	1.75	
10390.00	20.480	166.430	10275.76	740.93 S	178.37 E	762.07	2.31	
10421.00	21.180	166.610	10304.74	751.65 S	180.94 E	773.09	2.27	
10452.00	22.060	167.840	10333.56	762.79 S	183.46 E	784.51	3.19	
10484.00	22.410	167.120	10363.18	774.61 S	186.09 E	796.61	1.39	
10516.00	23.050	166.300	10392.69	786.64 S	188.93 E	808.98	2.23	
10547.00	23.840	165.670	10421.13	798.61 S	191.92 E	821.31	2.67	
10579.00	24.080	167.130	10450.38	811.24 S	194.97 E	834.31	2.00	
10611.00	24.780	167.490	10479.51	824.15 S	197.88 E	847.54	2.24	
10643.00	25.490	166.960	10508.48	837.41 S	200.89 E	861.12	2.33	
10675.00	25.930	167.490	10537.31	850.94 S	203.96 E	875.00	1.55	
10706.00	26.370	167.310	10565.14	864.28 S	206.94 E	888.66	1.44	
10743.00	27.110	167.310	10598.18	880.52 S	210.59 E	905.30	2.00	
10773.00	28.040	166.780	10624.77	894.05 S	213.71 E	919.19	3.21	
10804.00	26.890	167.310	10652.28	907.98 S	216.91 E	933.48	3.79	
10836.00	24.520	168.540	10681.11	921.55 S	219.82 E	947.35	7.59	
10868.00	23.200	168.720	10710.38	934.24 S	222.38 E	960.28	4.13	
10901.00	22.410	169.070	10740.80	946.79 S	224.84 E	973.06	2.43	
10933.00	21.530	169.420	10770.47	958.56 S	227.08 E	985.01	2.78	
10964.00	19.780	170.470	10799.48	969.32 S	228.99 E	995.92	5.77	
10997.00	19.250	170.120	10830.58	980.19 S	230.85 E	1006.91	1.64	
11029.00	19.780	169.770	10860.74	990.71 S	232.71 E	1017.57	1.70	
11061.00	20.210	167.660	10890.81	1001.44 S	234.86 E	1028.50	2.62	
11125.00	21.270	167.470	10950.67	1023.57 S	239.74 E	1051.16	1.66	
11188.00	21.090	168.890	11009.41	1045.85 S	244.40 E	1073.90	0.86	
11220.00	19.510	171.530	11039.42	1056.79 S	246.30 E	1084.97	5.71	
11252.00	19.250	171.000	11069.61	1067.28 S	247.91 E	1095.54	0.98	
11284.00	19.950	168.010	11099.76	1077.83 S	249.87 E	1106.25	3.82	

Survey Report for Chosa Draw 27 Fed Com

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
11316.00	20.570	165.550	11129.78	1088.62 S	252.41 E	1117.33	3.29	
11348.00	21.010	165.380	11159.69	1099.61 S	255.26 E	1128.69	1.39	
11380.00	22.150	164.850	11189.45	1110.98 S	258.28 E	1140.45	3.61	
11412.00	23.120	163.970	11218.98	1122.85 S	261.59 E	1152.77	3.21	
11444.00	23.730	164.150	11248.35	1135.08 S	265.09 E	1165.48	1.92	
11476.00	24.420	163.750	11277.56	1147.62 S	268.70 E	1178.53	2.22	
11508.00	24.700	164.320	11306.67	1160.41 S	272.35 E	1191.82	1.15	
11539.00	25.140	165.380	11334.78	1173.02 S	275.77 E	1204.88	2.02	
11602.00	26.980	165.200	11391.37	1199.79 S	282.80 E	1232.55	2.92	
11665.00	28.560	164.670	11447.12	1228.13 S	290.43 E	1261.90	2.54	
11697.00	28.990	164.050	11475.17	1242.96 S	294.58 E	1277.30	1.64	
11729.00	29.440	162.390	11503.10	1257.91 S	299.09 E	1292.90	2.90	
11761.00	29.530	161.550	11530.95	1272.89 S	303.97 E	1308.61	1.32	
11792.00	29.260	159.680	11557.96	1287.24 S	309.01 E	1323.75	3.09	
11824.00	28.960	159.940	11585.92	1301.85 S	314.39 E	1339.23	1.02	
11887.00	28.070	160.070	11641.28	1330.12 S	324.67 E	1369.15	1.42	
11952.00	25.780	160.150	11699.23	1357.79 S	334.69 E	1398.42	3.52	
12015.00	24.610	162.920	11756.23	1383.22 S	343.19 E	1425.15	2.64	
12080.00	23.330	165.040	11815.63	1408.59 S	350.49 E	1451.54	2.37	
12169.00	21.630	168.240	11897.86	1441.68 S	358.38 E	1485.56	2.35	
12254.00	20.220	169.000	11977.26	1471.44 S	364.38 E	1515.88	1.69	Last MWD Survey @ 12254' md
12300.00	19.450	169.000	12020.53	1486.76 S	367.36 E	1531.47	1.67	Projection to TD @ 12300' md

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 Wellhead.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Wellhead and calculated along an Azimuth of 165.960° (Grid).

Coordinate System is NAD27 New Mexico State Planes, Eastern Zone.

Grid Convergence at Surface is -0.003°. Magnetic Convergence at Surface is -8.877° (08-Sep-03)

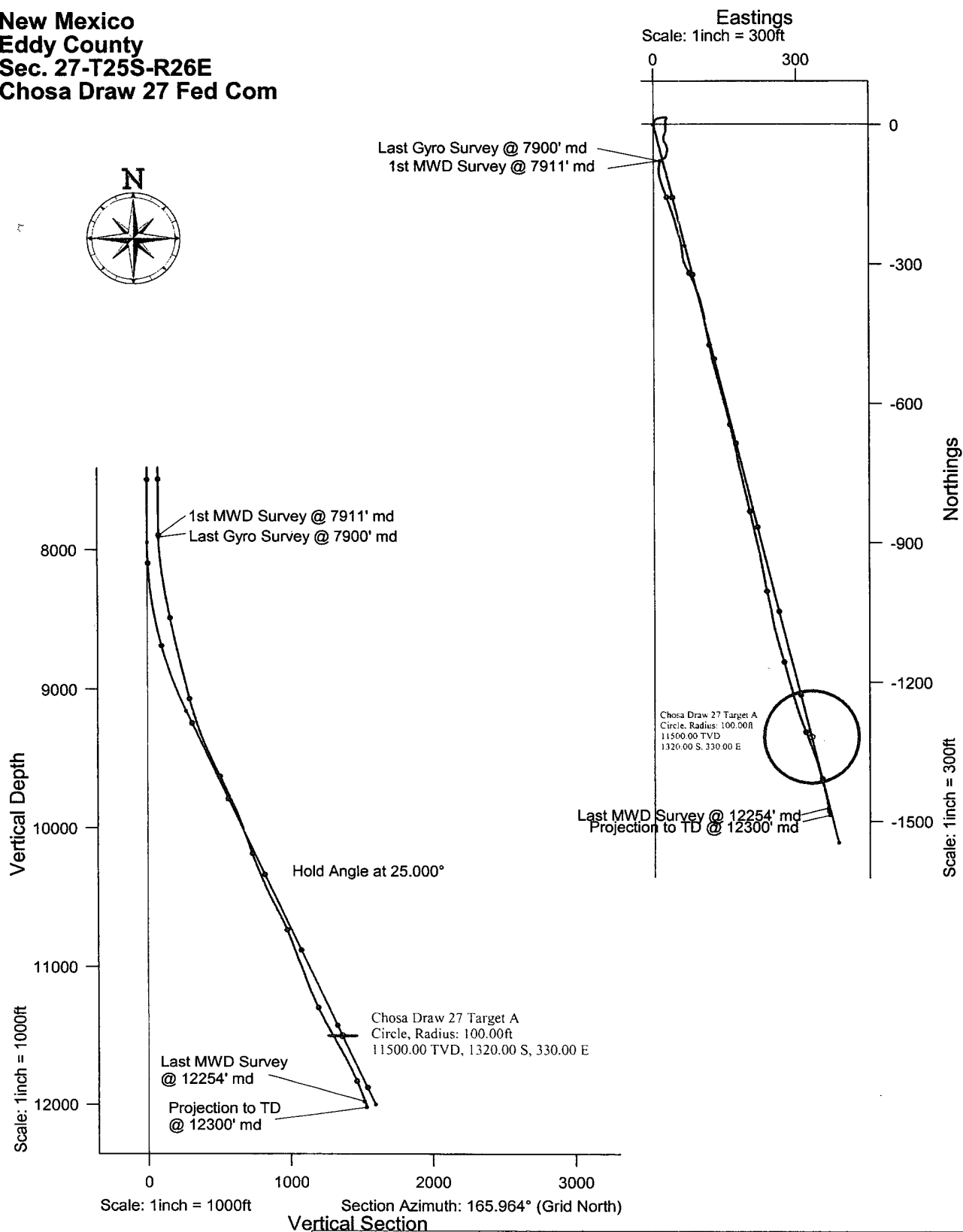
Based upon Minimum Curvature type calculations, at a Measured Depth of 12300.00ft., The Bottom Hole Displacement is 1531.47ft., in the Direction of 166.121° (Grid).

Survey Report for Chosa Draw 27 Fed Com
Data Source: Information from Location

Comments

Measured Depth (ft)	Station Coordinates			Comment
	TVD (ft)	Northings (ft)	Eastings (ft)	
7900.00	7898.40	77.85 S	14.49 E	Last Gyro Survey @ 7900' md
7911.00	7909.40	78.16 S	14.25 E	1st MWD Survey @ 7911' md
12254.00	11977.26	1471.44 S	364.38 E	Last MWD Survey @ 12254' md
12300.00	12020.53	1486.76 S	367.36 E	Projection to TD @ 12300' md

New Mexico
Eddy County
Sec. 27-T25S-R26E
Chosa Draw 27 Fed Com



Prepared by:
Admin

Date/Time:
6 October, 2003 - 16:26

Checked:

Approved:

State of New Mexico

DISTRICT I

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

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 86211-0719

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 30-015-32918	Pool Code	Pool Name Strawn Undesignated
Property Code	Property Name CHOSA DRAW 27 FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT CO.	Elevation 3265'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	25-S	26-E		330'	NORTH	1980'	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
B	27	25-S	26-E		1817'	NORTH	1613'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	N	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

Chosa Draw 27 Fed Com 1	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 Manager, Operations Admin Title February 26, 2004 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. May 02, 2003 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald J. Edson</i> 03.11.0469 Certificate No. RONALD J. EDSON 3239 GARY KIDSON 12641