

Oil Cons.
UNITED STATES N.M. DIV. Dist. 2
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1301 W. Grand Avenue
Alamogordo, NM 88210

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. NM 040547	
2. NAME OF OPERATOR Gruy Petroleum Management Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS AND TELEPHONE NO. P O Box 140907 Irving Tx. 75014-0907		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FNL & 660' FEL At top prod. interval reported below At total depth		8. FARM OR LEASE NAME, WELL NO. Gulf Federal Com 3	
14. PERMIT NO.		9. API WELL NO. 30-015-32288	
DATE ISSUED		10. FIELD AND POOL, OR WILDCAT Carlsbad; Morrow, South (Gas)	
15. DATE SPUDDED 10-09-02		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Sec 1 T-23S- R-26E	
16. DATE T.D. REACHED 11-05-02		12. COUNTY OR PARISH Eddy	
17. DATE COMPL. (Ready to prod.) 01-30-03		13. STATE NM	
18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 3231' GR		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 12,100'		21. PLUG BACK T.D., MD & TVD 12,068'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY All	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Carlsbad; Morrow., South 11532' - 11911'		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Spaced Neutron GRL, Dual Laterlog Micro-SFL, Cement Bond Log		27. WAS WELL CORRED 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" H-40	48 #	577'	17-1/2"	530 sx cement circ 77 sx to pit	
9-5/8" J-55	40 #	3190'	12 1/4"	1300 sx interfill circ 82 sx to surf	
5-1/2" N-80	17#	12100'	7-7/8"	1440 sx Interfil/PermTOC 2600	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	11441'	11441'

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
11800-11911 6spf				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11684-11686 4spf squeeze w/ 124 sx Class H				11800-11911	30450 gal 45 foamed CO2 63000#20/40 intrpr
11724-11730 6spf				11684-11686	squeezed w/ 124 sx class H cement
11532-11653 6spf				11594-11615	23400 gal foamed CO2 15400# 20/40 intrpr
				11532-11555	55000 gal foamed CO2 30000# 20/40 intrpr

33. PRODUCTION							
DATE FIRST PRODUCTION 01-29-03	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing					WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 2-7-03	HOURS TESTED 24 hours	CHOKER SIZE 38/64"	PROD'N. FOR TEST PERIOD →	OIL—BBL. -0-	GAS—MCF. 490	WATER—BBL. -0-	GAS-OIL RATIO -0-
FLOW. TUBING PRESS. 1533	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL. -0-	GAS—MCF. 490	WATER—BBL. -0-	OIL GRAVITY-API (CORR.) -0-	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold

35. LIST OF ATTACHMENTS
NM C-122, Electric logs 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 March 25, 2003

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

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

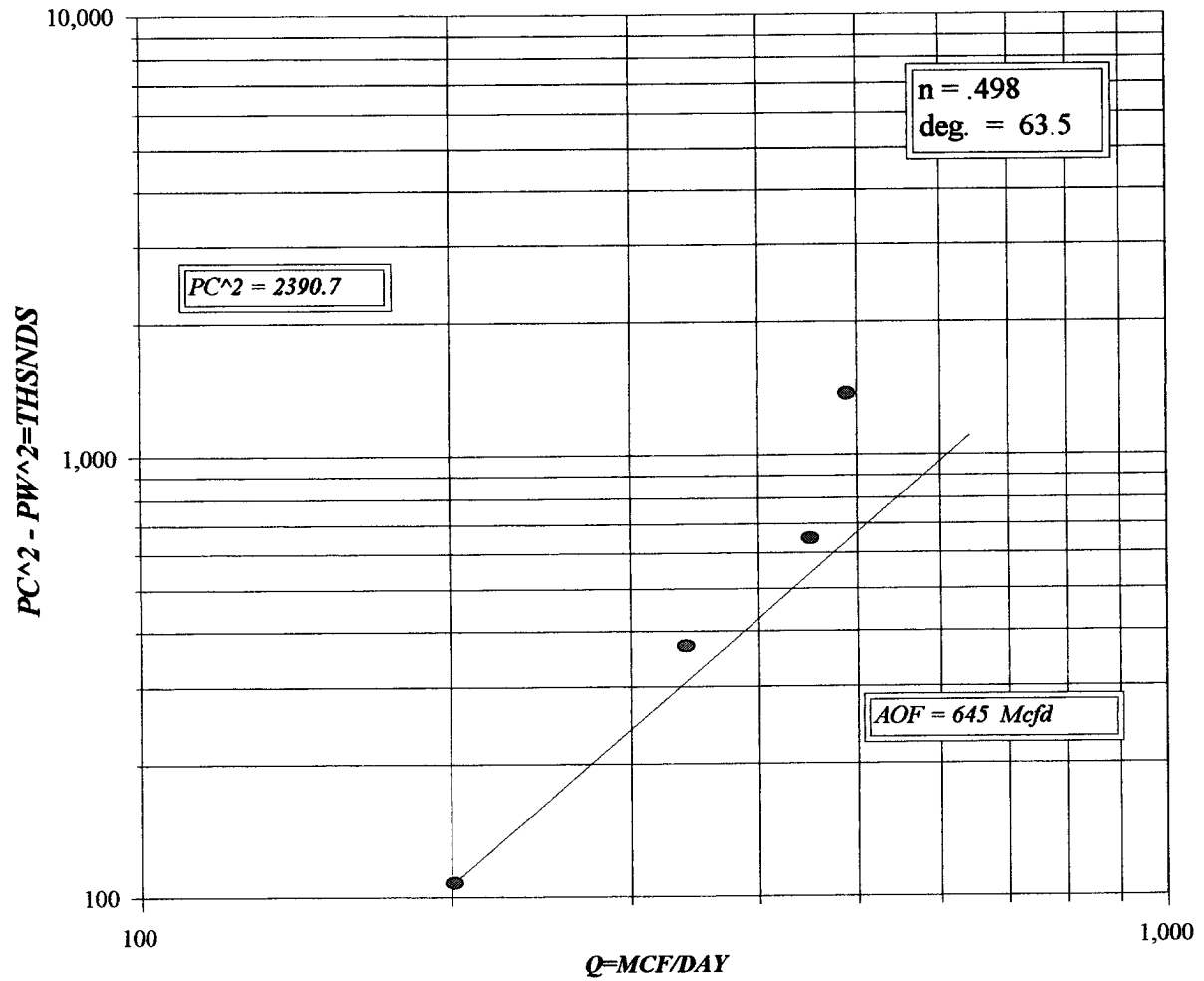
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PET. MANG. CO.				Lease or Unit Name GULF FED COM					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/7/03		Well No. 3	
Completion Date		Total Depth 12100		Plug Back TD 12068		Elevation		Unit Ltr - Sec - TWP - Rge 1 23S 26E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12100	Perforations: From: 11550 To: 11800		County EDDY			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11441	Perforations: From: To:		Pool S. Carlshed Marrow			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11441		Formation MORROW			
Producing Thru Tubing		Reservoir Temp. °F 198.1		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 11441	H 11441	Gg 0.687	%CO ₂ 11.57	%N ₂ 0.481	%H ₂ S N/A	Prover N/A	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. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F
SI						1533	N/A	PKR	N/A
1	4.026 X 1.125		195	3.9	38	1497			
2	4.026 X 1.125		195	10.8	42	1406			
3	4.026 X 1.125		199	19.6	54	1303			
4	4.026 X 1.125		200	24.7	55	987			
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									202
2									340
3	TOTAL		FLOW	METER					451
4									490
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons _____ Deg.				
2					Specific Gravity Separator Gas 0.687 XXXXXXXX				
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid N/A XXXXXX				
4					Critical Pressure 716 P.S.I.A. _____ P.S.I.A.				
5					Critical Temperature 361 R. _____ R				
P _c 1546.2 P _{c2} 2390.7									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.731}{\quad} \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.316}{\quad}$				
1		1510.7	2282.2	108.5	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{0.645}{\quad}$				
2		1420.7	2018.5	372.2					
3		1319.1	1740.1	650.6					
4		1004.9	1009.8	1380.9					
5									
Absolute Open Flow 645					Mcf/d @ 15.025		Angle of Slope (°): 63.5		Slope n: 0.498
Remarks: * NO LIQUID MADE DURING TEST.									
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: MB			

GRUY PET. MANAGEMENT CO.
GULF FED COM #3



**Laboratory Services, Inc.**

4018 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88240

SAMPLE:
IDENTIFICATION: Gulf Fed. Com. #3
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/7/03
ANALYSIS DATE: 2/7/03
PRESSURE - PSIG 197
SAMPLE TEMP. °F 54
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Merv Buecker
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.481	
Carbon Dioxide (CO2)	11.574	
Methane (C1)	85.161	
Ethane (C2)	2.148	0.573
Propane (C3)	0.367	0.101
i-Butane (IC4)	0.045	0.015
n-Butane (NC4)	0.038	0.012
i-Pentane (IC5)	0.015	0.005
n-Pentane (NC5)	0.010	0.004
Hexane Plus (C6+)	0.161	0.070
	100.000	0.780

BTU/CU.FT. - DRY 919
AT 14.650 DRY 916
AT 14.650 WET 900
AT 14.73 DRY 921
AT 14.73 WET 905

MOLECULAR WT. 19.9112

SPECIFIC GRAVITY -
CALCULATED 0.687
MEASURED

OPERATOR: GRUY PETROLEUM
WELL/LEASE: GULF FED. COM. 3
COUNTY: EDDY

080-0011

RECEIVED

NOV 21 2002

MIDLAND

STATE OF NEW MEXICO
DEVIATION REPORT

238	1 1/4
396	3/4
577	1/4
1,050	1/4
1,370	1 1/2
1,593	2 1/2
1,698	2 1/4
1,781	1 3/4
2,068	1 3/4
2,387	2
2,705	1/2
3,607	3/4
4,082	1
4,558	1
5,035	3/4
5,536	1 1/2
6,036	2
6,520	1 1/4
6,999	3/4
7,484	1 3/4
7,982	1 3/4
8,474	1 1/2
8,970	1 1/2
9,446	1 1/2
9,723	1 1/2
10,209	1 1/2
10,685	1
11,160	1 1/2
11,376	1 1/2
11,859	1 1/2
12,100	3/4



By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 19th day of November, 2002, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003

