

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

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

5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ CAR WELL ☒ DRY ☐ Other _____				5. LEASE DESIGNATION AND SERIAL NO. NM 0402170											
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REMV. ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____											
2. NAME OF OPERATOR Gruy Petroleum Management Co.				7. UNIT AGREEMENT NAME SRM - 1115											
3. ADDRESS AND TELEPHONE NO. P O Box 140907 Irving Tx. 75014-0907				8. FARM OR LEASE NAME, WELL NO. Pennzoil Federal Com No. 3											
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2000' FSL & 660' FEL At top prod. interval reported below 2000' FSL & 660' FEL At total depth 2000' FSL & 660' FEL				9. API WELL NO. 30-015-32540											
14. PERMIT NO. _____ DATE ISSUED _____				10. FIELD AND POOL, OR WILDCAT White City; Penn (Gas)											
12. COUNTY OR PARISH Eddy				13. STATE NM											
15. DATE SPUDDED 12-16-02	16. DATE T.D. REACHED 01-15-03	17. DATE COMPL. (Ready to prod.) 03-15-03	18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 3295' GR	19. ELEV. CASINGHEAD											
20. TOTAL DEPTH, MD & TVD 11950'	21. PLUG, BACK T.D., MD & TVD 11950'	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY All	ROTARY TOOLS	CABLE TOOLS										
24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* White City; Penn					25. WAS DIRECTIONAL SURVEY MADE Yes										
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Spaced Neutron GRL, Dual Laterlog Micro Guard, 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" H-40	48 #	413'	17-1/2"	490 sx C 4% gel circ 120 sx to pit											
9-5/8" J-55	40 #	3220'	12 1/4"	1100 sx Interfill circ 205 sx to pit											
5-1/2" N-80	17#	11950'	8-3/4"	1650 sx Interfill TOC 7015'											
29. LINER RECORD			30. TUBING RECORD												
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE										
					2 3/8"										
					11290'										
					11290'										
31. PERFORATION RECORD (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.												
11751' - 11803' 6 SPF 108 Holes			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMOUNT AND KIND OF MATERIAL USED</th> </tr> <tr> <td>11751' - 11803'</td> <td>43450 gal 70-61Q 45# gel w/ CO2</td> </tr> <tr> <td></td> <td>26100 # 18/40 Versaprop</td> </tr> <tr> <td>11380' - 11388'</td> <td>35000 gal 45# gel 7% KCL w CO2</td> </tr> <tr> <td></td> <td>14000 # 18/40 Versaprop</td> </tr> </table>			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	11751' - 11803'	43450 gal 70-61Q 45# gel w/ CO2		26100 # 18/40 Versaprop	11380' - 11388'	35000 gal 45# gel 7% KCL w CO2		14000 # 18/40 Versaprop
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED														
11751' - 11803'	43450 gal 70-61Q 45# gel w/ CO2														
	26100 # 18/40 Versaprop														
11380' - 11388'	35000 gal 45# gel 7% KCL w CO2														
	14000 # 18/40 Versaprop														
11457'-11470' 3 SPF 39 Holes, 11521'-11548' 6 SPF 81 Holes															
11380' - 11388' 6 SPF 54 Holes															
33. PRODUCTION															
DATE FIRST PRODUCTION 03-16-03		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing		WELL STATUS (Producing or shut-in) Producing											
DATE OF TEST 03-25-03	HOURS TESTED 24	CHOKE SIZE 12/64	PROD'N. FOR TEST PERIOD	OIL—BBL. -0-	GAS—MCF. 2169										
FLOW. TUBING PRESS. 400	CASING PRESSURE -0-	CALCULATED 24-HOUR RATE	OIL—BBL. -0-	GAS—MCF. 2169	WATER—BBL. 70										
			GAS-OIL RATIO NA												
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 available records															
SIGNED <u>Zeno Farris</u>		TITLE <u>Manager Operations Admin.</u>		DATE <u>04-03-03</u>											

*(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
Bone Spring	6250					
Strawn	10280					
Morow	11175					

RECEIVED
2003 APR -7 AM 8:12
BUREAU OF LAND MANAGEMENT
FOSWELL OFFICE

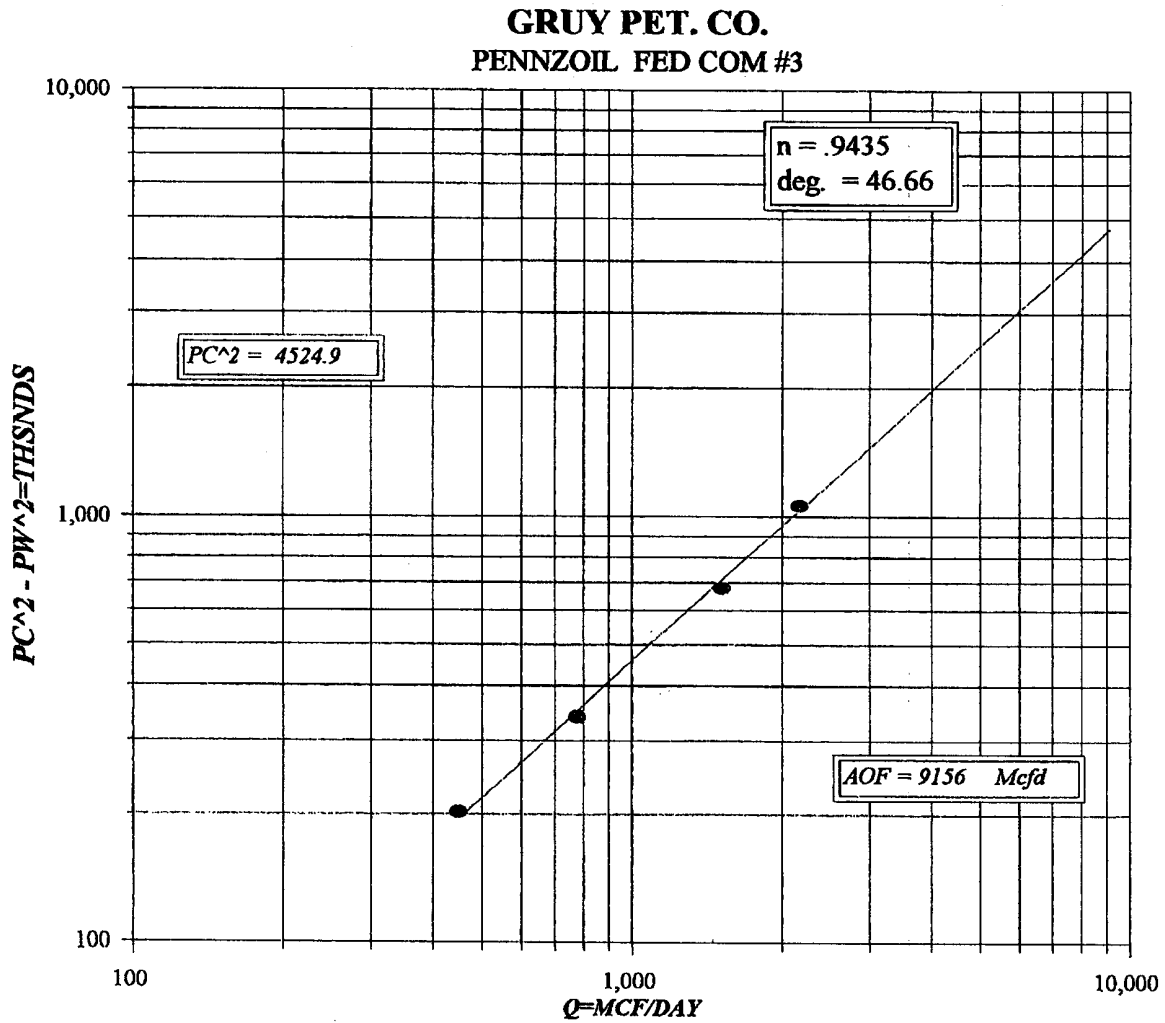
Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

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 PETROLEUM				Lease or Unit Name PENNZOIL FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/25/03	Well No. 3
Completion Date 3/15/03		Total Depth		Plug Back TD 11950		Elevation	Unit Ltr - Sec - TWP - Rge
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At	Perforations: From: To:		County EDDY	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11290	Perforations: From: To:		Pool White City PENN (Gas)	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11290		Formation	
Producing Thru Tubing	Reservoir Temp. °F 186	Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 11950	H 11950	Gg 0.594	%CO ₂ 2.833	%N ₂ 0.231	%H ₂ S N/A	Prover N/A	Meter Run 4.026
Taps FLG							
FLOW DATA				TUBING DATA			
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _v	Temp. °F	Press p.s.i.g.	Temp. °F
SI							
1	4.026 X 2.250		266	0.5	103	2114	N/A
2	4.026 X 2.250		294	1.7	112	2064	
3	4.026 X 2.250		306	5.9	97	1926	
4	4.026 X 2.250		318	10.7	57	1799	
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							450
2							780
3	TOTAL	FLOW	METER				1521
4							2169
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		
1					Mcf bbl.		
2					A.P. I. Gravity of Liquid Hydrocarbons		
3	TOTAL	FLOW	METER		Specific Gravity Separator Gas		
4					Specific Gravity Flowing Fluid		
5					Critical Pressure		
					Critical Temperature		
P _c	2127.2	P ₂	4524.9				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{4.25}{P_c^2 - P_w^2}$		
1		2079	4322.3	202.6	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.692$		
2		2045.8	4185.1	339.8			
3		1961.4	3846.9	678			
4		1860.1	3460.1	1064.8			
5							
Absolute Open Flow				9156	Mcf @ 15.025	Angle of Slope (°):	46.66
Slope n:				0.9435			
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: MB	



C122D FORM IMPORTED FROM SYMPHONY ON 9-9-01

COMPANY

UNIT

C

%C02

d

GRUY PET. MANAGEMENT C

LEASE

PENNZOR FLD COM

WELL NO.

SECTION

15

L/H

1

G/GMIX

TOWNSHIP

24S

DATE

12/4/02

RANGE

25E

VOL 1

VOL 2

VOL 3

VOL 4

597

1030

1412

2480

PSIA 1

PSIA 2

PSIA 3

PSIA 4

2573.2

2472.2

2395.2

2273.2

RESV.TEMP

188.0

SHUT-IN PRE

2684.2

PCR

TCR

679

348

PC2

PC2-Pw2

569.9

1052.7

1392.2

1804.6

Pw2

6635.0

6152.2

5812.7

5400.3

n

0.944

PC2/(PC2-Pw2)

12.643

PC2/PC2-Pw2n

10.954

ACF=Q

6.540

LINE

RATE 1

RATE 2

RATE 3

RATE 4

1ST

2ND

1ST

2ND

1ST

2ND

1ST

2ND

1

2

3

4

PR (est)

5 Z(est)

6 TZ

7 GH/TZ

8 oS

9 I-e-S

10 Pt

11 P12 /1000

12 Fr

13 Fc=FrTZ

14 FcQm

15 L/H/(FcQm)Z

16 Fw

17 Pw2

18 Ps2

19 Ps

20 P

21 Pr

22 Tr

23 Z

0.597

534

648.0

591.0

3.79

0.842

497.8

16.466

1.854

0.461

2573.2

6621.4

0.018183

9.052

5.40

29.2

13.5452879

6634.8

12302.7

3507.5

3040.4

4.48

1.70

0.852

0.597

534

648.0

591.0

3.64

0.852

503.5

16.282

1.841

0.457

2573.2

6621.4

0.018183

9.154

5.47

29.9

13.648038

6635.0

12218.1

3495.4

3034.3

4.47

1.70

0.852

1.030

534

648.0

591.0

3.64

0.849

497.3

16.482

1.855

0.461

2472.2

6111.8

0.018183

9.043

9.31

88.8

40.430567

6181.8

11413.5

3378.4

2925.3

4.31

1.70

0.849

1.030

534

648.0

591.0

3.53

0.841

501.6

16.343

1.846

0.458

2472.2

6111.8

0.018183

9.120

9.39

88.2

40.430567

6152.2

11355.2

3369.7

2921.0

4.30

1.70

0.849

1.412

534

648.0

591.0

3.35

0.847

497.2

16.406

1.848

0.459

2395.2

5737.0

0.018183

9.040

12.77

162.9

75.137774

5812.7

10785.4

3284.1

2839.7

4.18

1.70

0.847

1.412

534

648.0

591.0

3.35

0.841

500.4

16.362

1.855

0.461

2395.2

5737.0

0.018183

9.043

12.85

165.0

75.747982

5899.3

10744.5

3277.9

2836.5

4.18

1.70

0.847

2.480

534

648.0

591.0

3.35

0.841

499.0

16.482

1.852

0.460

2273.2

5167.4

0.018183

9.073

22.43

502.9

231.86533

5400.3

9999.1

3162.1

2717.7

4.00

1.70

0.844

2.480

534

648.0

591.0

3.692

0.844

499.0

16.428

1.852

0.460

2273.2

5167.4

0.018183

9.073

22.50

506.3

232.844684

5400.3

9999.1

3162.1

2717.7

4.00

1.70

0.844

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: Pennzoil Fed. Com. #3
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 3/25/03 2:00 pm
ANALYSIS DATE: 3/26/03
PRESSURE - PSIG 300
SAMPLE TEMP. °F 58
ATMOS. TEMP. °F 60

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

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.231	
Carbon Dioxide (CO2)	2.833	
Methane (C1)	95.002	
Ethane (C2)	1.617	0.431
Propane (C3)	0.241	0.066
I-Butane (IC4)	0.038	0.012
N-Butane (NC4)	0.038	0.012
I-Pentane (IC5)	0.000	0.000
N-Pentane (NC5)	0.000	0.000
Hexane Plus (C6+)	0.000	0.000
	100.000	0.521

BTU/CU.FT. - DRY 997
AT 14.650 DRY 994
AT 14.650 WET 976
AT 14.73 DRY 999
AT 14.73 WET 982

MOLECULAR WT. 17.1867

SPECIFIC GRAVITY -
CALCULATED 0.594
MEASURED

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

075-0016

STATE OF NEW MEXICO
DEVIATION REPORT

194	1
460	1
890	3/4
1,300	2 1/4
1,491	1 1/4
1,712	3/4
1,997	1/2
2,497	1 1/4
2,851	3/4
3,220	3/4
3,717	1
4,190	1/4
4,690	1/4
5,170	3/4
5,644	1/4
6,119	1/2
6,619	1
7,098	1/4
7,541	1 1/2
8,041	2
8,544	1 1/2
9,044	1 1/2
9,501	1 1/2
9,975	1 1/4
10,134	1
10,607	1 3/4
10,806	1 1/2
11,295	1
11,716	1
11,950	3/4



By: *Steve Moore*

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 22nd day of January, 2003, 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

