

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

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. RENVR. ☐ 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 515' FNL & 305' FEL At top prod. interval reported below 1078 FNL' & 1408' FEL At total depth 1109' FNL & 1492' FEL							
14. PERMIT NO.		DATE ISSUED					
15. DATE SPUDDED 07-23-03		16. DATE T.D. REACHED 09-04-03		17. DATE COMPL. (Ready to prod.) 12-10-03			
18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 3451' GR		19. ELEV. CASINGHEAD					
20. TOTAL DEPTH, MD & TVD 11954 MD 11737 TVD		21. PLUG, BACK T.D., MD & TVD 11910 MD 11695 TVD		22. IF MULTIPLE COMPL., HOW MANY* →			
23. INTERVALS DRILLED BY →		ROTARY TOOLS All		CABLE TOOLS			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* White City; Penn (Gas) 11673' - 11830' MD White City Penn (Gas) 11472' - 11620' 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)							
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 #	417'	17-1/2"	450 sx Prem Plus circ 140 sx to pit			
9-5/8" NS-110	40#	1,938'	12-1/4"	950 sx Inter C/Prem/Thix circ 150 sx to Pit			
P-110/N-80	17#	11,954'	8 3/4"	1,875 sx Super H/Perm circ 60 sx TOC Surface			
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"	11,830'	11,623'
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
11,808 - 11,830 6 SPF 102 Holes				DEPTH INTERVAL (MD)			
11,776 - 11,779 6 SPF 18 Holes				AMOUNT AND KIND OF MATERIAL USED			
11,727 - 11,742 6 SPF 60 Holes				11,673 - 11,830			
11,673 - 11,689 6 SPF 72 Holes				160000 gal 45# gel 7% KCL+CO2/96500# 18/40 versaprop			
33.* PRODUCTION							
DATE FIRST PRODUCTION 12-13-03		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing			WELL STATUS (Producing or shut-in) Producing		
DATE OF TEST 12-19-03	HOURS TESTED 24	CHOKE SIZE 48/64	PROD'N. FOR TEST PERIOD →	OIL—BBL. -0-	GAS—MCF. 269	WATER—BBL. 90	GAS-OIL RATIO N/A
FLOW. TUBING PRESS. 225	CASING PRESSURE 560	CALCULATED 24-HOUR RATE →	OIL—BBL. -0-	GAS—MCF. 269	WATER—BBL. 90	OIL GRAVITY-API (CORR.) NA	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY	
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 <u>Zeno Farris</u>		TITLE <u>Manager Operations Administration</u>			DATE <u>February 3, 2004</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
Morrow	11442'	11892'				

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. MANAGEMENT					Lease or Unit Name EXXON FED				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12/17/03		Well No. 3		
Completion Date 10/27/03		Total Depth 11956		Plug Back TD 11910		Elevation 3451 GL		Unit Ltr - Sec - TWP - Rge B 17 24S 26E	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11954	Perforations: From: 11673 To: 11830			County EDDY		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11830	Perforations: From: To:			Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11623			Formation MORROW		
Producing Thru TUBING		Reservoir Temp. 188		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		Connection SALES	
L 11623	H 11623	Gg 0.729	%CO ₂ 17.263	%N ₂ 0.204	%H ₂ S	Prover	Meter Run 4.026	Taps FLG	

FLOW DATA				TUBING DATA			CASING DATA		Duration of Flow
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.	
SI						1893			
1		4.026 X 2.000	229	0.5	68	1834			1 HR.
2		4.026 X 2.000	233	0.6	83	1750			1HR.
3		4.026 X 2.000	236	1.5	105	1515			1HR.
4		4.026 X 2.000	236	2	87	1074			1HR.
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							214
2	TOTAL	FLOW	METER				304
3							475
4							572
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mcf bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons	N/A	Deg.
2					Specific Gravity Separator Gas	0.729	XXXXXXX
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid	XXXXXX	
4					Critical Pressure	741	P.S.I.A.
5					Critical Temperature	366	R

P _c 1906.2		P _{c2} 3633.6	
No.	P _t ²	P _w	P _w ²
1		1847.6	3413.8
2		1764.2	3112.2
3		1530.9	2343.7
4		1093	1194.7
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.49$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.055$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 0.868$

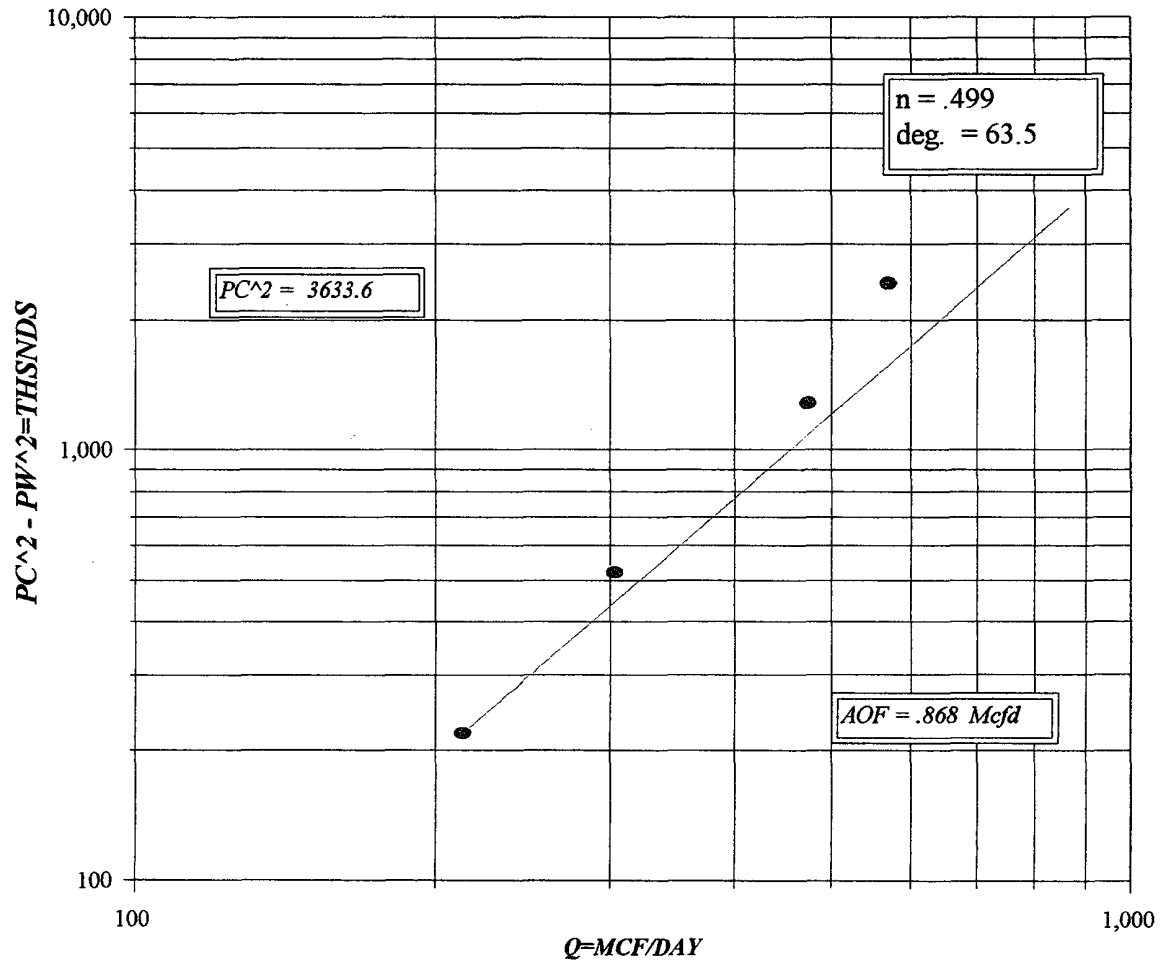
Absolute Open Flow	0.868	Mcf/d @ 15.025	Angle of Slope (°)	63.5	Slope n:	0.499
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Remarks: *** NO LIQUID MADE DURING TEST.**

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM
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GRUY PET. MANAGEMENT

EXXON FED #3





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: Exxon Fed. #3
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 12/17/03 1:00 pm
ANALYSIS DATE: 12/18/03
PRESSURE - PSIG 220
SAMPLE TEMP. °F 95
ATMOS. TEMP. °F 55

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

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.204	
Carbon Dioxide (CO2)	17.263	
Methane (C1)	81.227	
Ethane (C2)	1.125	0.300
Propane (C3)	0.136	0.037
I-Butane (IC4)	0.020	0.007
N-Butane (NC4)	0.025	0.008
I-Pentane (IC5)	0.000	0.000
N-Pentane (NC5)	0.000	0.000
Hexane Plus (C6+)	0.000	0.000
	100.000	0.352

BTU/CU.FT. - DRY 845
AT 14.650 DRY 843
AT 14.650 WET 828
AT 14.73 DRY 847
AT 14.73 WET 833

MOLECULAR WT. 21.1077

SPECIFIC GRAVITY -
CALCULATED 0.729
MEASURED

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

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

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

OIL CONSERVATION DIVISION

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

Form C-102
Revised February 10, 1984
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-32865	Pool Code	Pool Name White City Penn (Gas)
Property Code	Property Name EXXON FEDERAL COM.	Well Number 3
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT CO.	Elevation 3451'

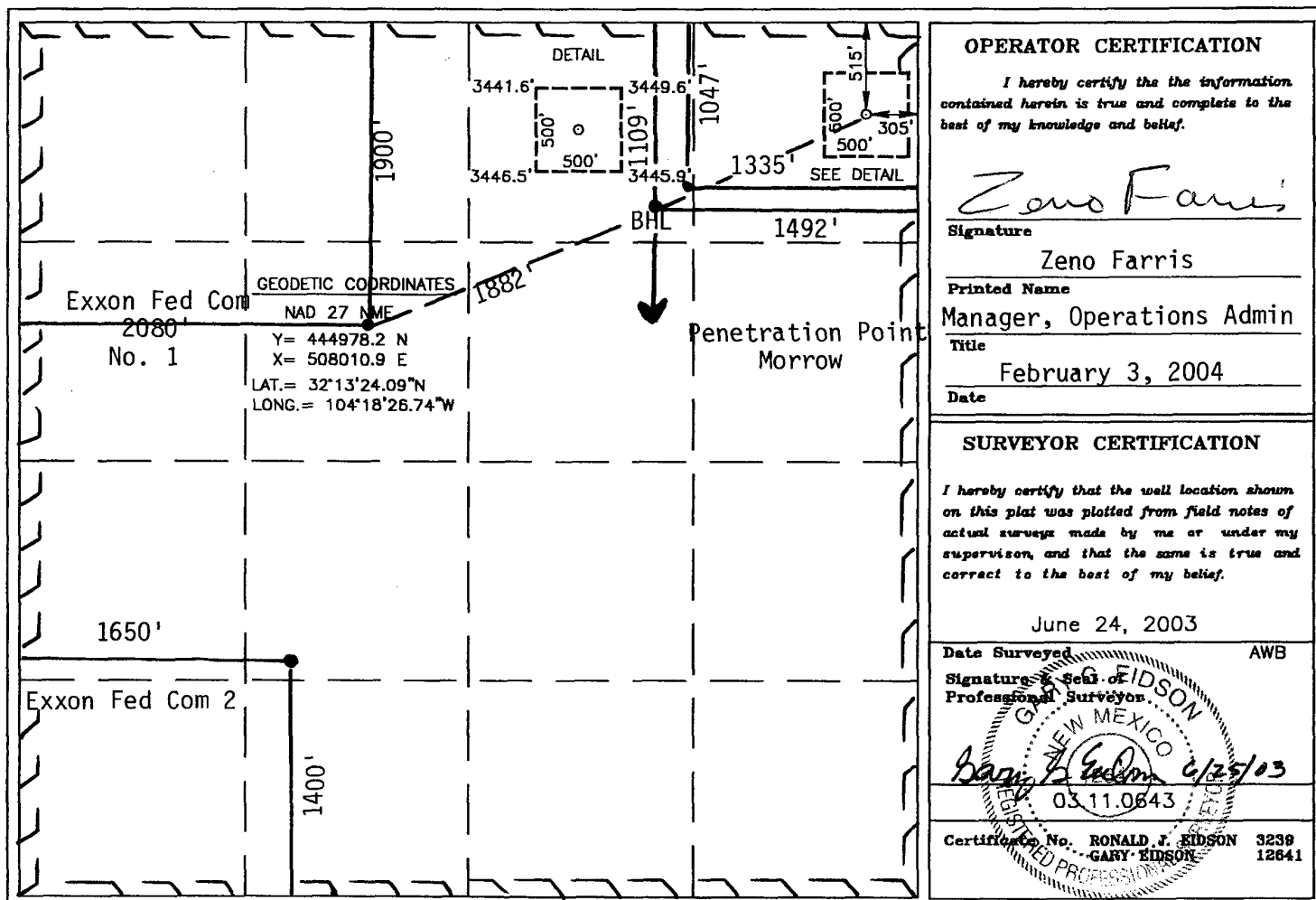
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	24-S	26-E		515'	NORTH	305'	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	17	24-S	26-E		1109'	NORTH	1492'	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: GRUY PETROLEUM
WELL/LEASE: EXXON FED. COM. 3
COUNTY: EDDY

080-0018

STATE OF NEW MEXICO
DEVIATION REPORT

209	1/2	7,003	1
410	2	7,500	3
640	2 1/4	7,670	4 1/4
964	3		
1,056	3		
1,153	2 3/4		
1,216	3		
1,349	3		
1,400	2 3/4		
1,526	2 1/2		
1,615	2 1/2		
1,711	2 3/4		
1,813	3 1/4		
1,938	2 1/2		
2,171	3		
2,398	2 1/4		
2,584	2		
2,775	1 3/4		
2,990	1 1/2		
3,281	3/4		
3,542	1		
3,848	1/2		
4,166	3/4		
4,611	1 1/4		
4,900	1 1/4		
5,304	2 1/2		
5,539	2 1/2		
5,882	1		
6,226	1 1/2		
6,517	1		

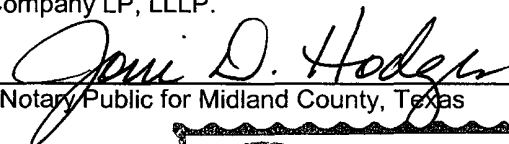
By: 

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 26th day of September, 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

