

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

Form C-105
Revised 1-1-89

WELL API NO. 30-015-33221
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____		7. Lease Name or Unit Agreement Name White City 33 Unit Com
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER _____		
2. Name of Operator Gruy Petroleum Management Company		8. Well No. 003
3. Address of Operator P.O. Box 140907, Irving, TX 75014-0907		9. Pool name or Wildcat White City; Penn, (Gas)
4. Well Location Unit Letter A : <u>1120</u> Feet From The North Line and 800 Feet From The East Line Section 33 Township 24S Range 26E NMPM Eddy County		
10. Date Spudded 09-23-04	11. Date T.D. Reached 10-23-04	12. Date Compl. (Ready to Prod.) 01-07-05
13. Elevations (DF & RKB, RT, GR, etc.) 3344' GR	14. Elev. Casinghead	
15. Total Depth 11850'	16. Plug Back T.D. 11603'	17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By Rotary Tools All Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name 10874' - 11432' White City; Penn (Gas)		20. Was Directional Survey Made Yes
21. Type Electric and Other Logs Run Dual LL, Dual Sp GR, CBL, Cement Bond Log		22. Was Well Cored No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5 # J-55	353'	17 1/2"	400 sx Prem circ 73 sx	
9 5/8"	NS-110HC	1929'	12 1/4"	900 sx Int/Prem circ 92 sx	
5 1/2"	17 # P-110HC	11660'	8 3/4"	2210 sx IntH/SupH/IntC/Prem	
				TOC 3660'	

24. LINER RECORD				25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET
				2 3/8"	10823'	10823'

26. Perforation record (interval, size, and number)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
INTERVAL	SIZE	HOLES	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11417' - 11432'	6 SPF	90 Holes	11417' - 11432'	58000gal foam CO2 / 31000# 18/40 VProp
11047' - 11078'	6 SPF	90 Holes	11047' - 11078'	67000gal foam CO2 / 50000# 18/40 VProp
10874' - 10906'	6 SPF	102 Holes	10874' - 10906'	67500gal foam CO2 / 48000# 18/40 VProp

28. PRODUCTION							
Date First Production 01-07-05	Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing			Well Status (Prod. or Shut-in) Producing			
Date of Test 01-24-05	Hours Tested 24	Choke Size 22/64	Prod'n For Test Period	Oil - Bbl. 0	Gas - MCF 1996	Water - Bbl. 14	Gas - Oil Ratio NA
Flow Tubing Press. 600	Casing Pressure 500	Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF 1996	Water - Bbl. 14	Oil Gravity - API - (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						Test Witnessed By	

30. List Attachments
Inclination survey, C-122, and electric log

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Natalie Krueger Printed Name Natalie Krueger Title Regulatory Analyst Date 02-07-05

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon 9755'	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn 9921'	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka 10369'	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs 5491	T. Entrada _____	T. _____
T. Abo _____	T. Morrow 10648'	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) 9410'	T. _____	T. Perm "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from to
No. 2, from to
No. 3, from to
No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

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

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-33221	Pool Code 87280	Pool Name White City; Penn, Gas
Property Code	Property Name WHITE CITY 33 UNIT COM	Well Number 3
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT COMPANY	Elevation 3344'

Surface Location

UL or lot No. A	Section 33	Township 24 S	Range 26 E	Lot Idn	Feet from the 1100	North/South line NORTH	Feet from the 800	East/West line EAST	County EDDY
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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
Dedicated Acres 640	Joint or Infill Y	Consolidation Code C	Order No.						

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

NAD 27 NME GEODETIC COORDINATES Y-428371.1-N X-512989.8-E LAT.= 32°10'39.73" N LONG.= 104°17'28.86" W 1650' White City Com 1 White City Unit Com 2 1650'	White City 33 Unit Com 3 RECEIVED FEB 08 2005 OCD-ARTESIA	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Zeno L. Farris</u> Signature Zeno L. Farris Printed Name Mgr Operations Admin. Title February 7, 2005 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. JANUARY 27, 2004 Date Surveyed Signature & Seal Professional Surveyor GARY EIDSON NEW MEXICO 04.11.0007 2/2/04 Certificate No. GARY EIDSON 12641
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Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

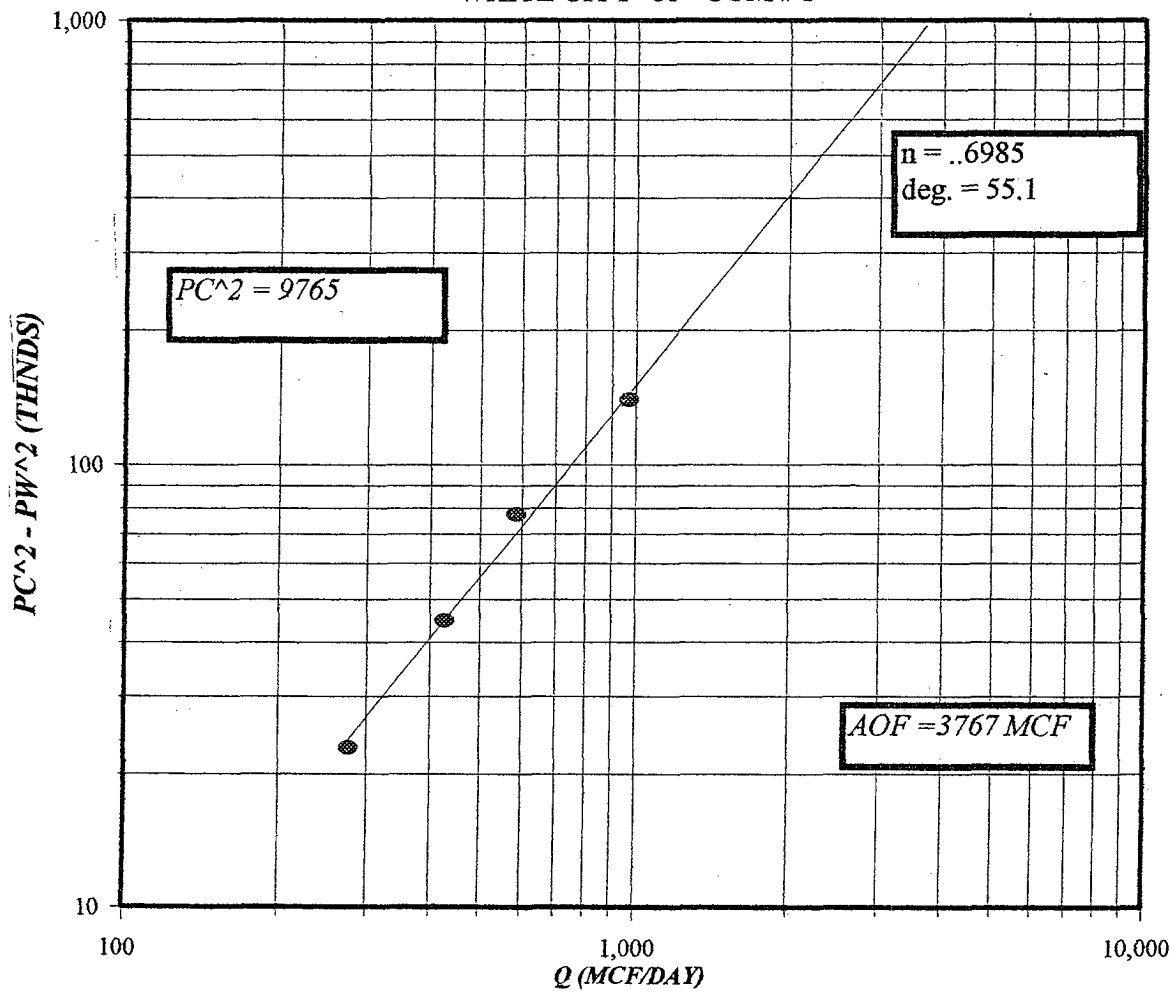
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PETROLEUM				Lease or Unit Name WHITE CITY "33" COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1/20/05		Well No. 3	
Completion Date 12/16/04		Total Depth 11850		Plug Back TD 11603		Elevation	
Unit Ltr - Sec - TWP - Rge							
Csg. Size 5 1/2	Wt. 17 #	d 4.892	Set At 11649	Perforations: From: 10874 To: 11432			County EDDY
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10823	Perforations: From: To:			Pool
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10823		Formation	
Producing Thru TBG		Reservoir Temp. °F 182.2 @ 10823		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
Connection SALES							
L 10823	H 10823	Gg 0.587	%CO ₂ 2.109	%N ₂ 0.207	%H ₂ S X	Prover N/A	Meter Run 3.068
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
							Duration of Flow
SI					975		PKR
1	3 X	1.000	454	4.2	71	962	"
2	3 X	1.000	457	9.9	76	949	"
3	3 X	1.000	466	17.6	82	929	"
4	3 X	1.000	477	48.7	84	884	"
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							277
2							427
3				TOTAL		FLOW	METER
4							585
5							971
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		
1					DRY GAS Mcf bbl.		
2					A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.		
3					Specific Gravity Separator Gas 0.587 XXXXXXXX		
4		N/A			Specific Gravity Flowing Fluid XXXXX		
5					Critical Pressure * 680 P.S.I.A. P.S.I.A.		
					Critical Temperature * 347 R. R.		
P _c 988.2 P _{c2} 976.5							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) P _c ² = 6.964 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.879$		
1		976.5	953.5	23			
2		965.3	931.9	44.7			
3		948.2	899.1	77.5			
4		914.5	836.3	140.2			
5							
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.767$							
79825							
Absolute Open Flow 3.767		Mcf @ 15.025		Angle of Slope (°): 55.1		Slope n: 0.6985	
Remarks: NO FLUID CORRECTED TO 2.109 % CO2							
Approved By Division:		Conducted By: Pro Well Testing & Wire Line		Calculated By: BM		Checked By: BM	

GRUY PETROLEUM
WHITE CITY "33" COM # 3





Laboratory Services, Inc.

2609 West Marland
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

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

SAMPLE:
IDENTIFICATION White City Penn 33 #3
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED 1/20/05 12:00 pm
ANALYSIS DATE: 1/21/05
PRESSURE - PSIG 461
SAMPLE TEMP. °F 77
ATMOS. TEMP. °F 70

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

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.207	
Carbon Dioxide (CO2)	2.109	
Methane (C1)	95.954	
Ethane (C2)	1.406	0.375
Propane (C3)	0.148	0.041
I-Butane (IC4)	0.043	0.014
N-Butane (NC4)	0.024	0.008
I-Pentane (IC5)	0.000	0.000
N-Pentane (NC5)	0.000	0.000
Hexane Plus (C6+)	0.109	0.047
	100.000	0.485

BTU/CU.FT. - DRY 1005
AT 14.650 DRY 1002
AT 14.650 WET 985
AT 14.73 DRY 1007
AT 14.73 WET 990

MOLECULAR WT. 17.0050

SPECIFIC GRAVITY -
CALCULATED 0.587
MEASURED

OPERATOR: MAGNUM HUNTER RESOURCES dba GRUY PETROLEUM
WELL/LEASE: WHITE CITY 33 UNIT COM #3
COUNTY: EDDY, NM

075-0031

STATE OF NEW MEXICO
DEVIATION REPORT

216	1/2
494	1/2
612	1/2
1,018	1/2
1,308	1/2
1,616	3/4
1,894	3/4
2,161	1/2
2,634	1/2
3,106	1/2
3,704	1/2
4,211	1/2
4,716	1/2
5,191	1/2
5,667	1
6,174	1/2
6,711	1/2
7,217	1/2
7,754	1/2
8,054	1
8,418	1/2
8,956	1/2
9,495	1/2
9,683	1/2
10,348	1/2
10,542	1
11,264	1 1/2
11,650	1 3/4

By: Steve Moore

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on November 15th, 2004, by
Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

J Robertson

My Commission Expires: 8/23/2007

