

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1301 W. Grand Avenue
Alameda, NM 88210

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 _____		RECEIVED SEP 02 2004 OCD-ARTERIA	5. LEASE DESIGNATION AND SERIAL NO. LC 065347
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other _____			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Gruy Petroleum Management Co.			7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. P O Box 140907 Irving Tx. 75014-0907		ACCEPTED FOR RECORD SEP 1 2004 ALEXIS C. SANDHEDS PETROLEUM ENGINEER	8. FARM OR LEASE NAME, WELL NO. White City Penn 29 GCU 1 #3
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1450' FSL & 965' FEL At top prod. interval reported below 1450' FSL & 965' FEL At total depth 1450' FSL & 965' FEL			9. API WELL NO. 30-015-33316 S1
			10. FIELD AND POOL, OR WILDCAT White City; Penn (Gas)
			11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 29 T-24S- R-26E
			12. COUNTY OR PARISH Eddy
			13. STATE NM
15. DATE SPUDDED 4-01-04	16. DATE T.D. REACHED 5-07-04	17. DATE COMPL. (Ready to prod.) 8-05-04	18. ELEVATIONS (DP, RKB, RT, GR, ETC.)* 3408' GR
20. TOTAL DEPTH, MD & TVD 11,650'	21. PLUG, BACK T.D., MD & TVD 11,440'	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY All
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* White City; Penn 10775' - 11334'			25. WAS DIRECTIONAL SURVEY MADE Yes
26. TYPE ELECTRIC AND OTHER LOGS RUN DSN, DLL, CBL			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" J-55	54.5 #	373'	17-1/2"	440sx PremPlus TOC 20' 1" 12sx sur	
9-5/8" NS-110	40 #	1654'	12 1/4"	1150 sx Prem Plus circ 73 sx to pit	
7" HCP-110	26#	8494"	8-3/4"	1065 sx Prem Plus circ 57sx	
29. LINER RECORD				30. TUBING RECORD	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE
4 1/2"	7979'	11650'	420sx Sup H		2 3/8"
					DEPTH SET (MD)
					10703'
					PACKER SET (MD)
					10703'
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
11326' - 11334' 6 spf				DEPTH INTERVAL (MD)	
10974' - 11108' 3 SPF				11326' - 11334'	
10775' - 10809' 6 SPF				10974' - 11108'	
11053' - 11114'				10775' - 10809'	
				AMOUNT AND KIND OF MATERIAL USED	
				1000 7 1/2% NEFE HCL 37000 gal CO2 23125# 18/40 vsp	
				170000 gal CO2 100000# 18/40 versa-prop	
				75000 gal CO2 48000# 18/40 versa-prop	

33. PRODUCTION							
DATE FIRST PRODUCTION 8-6-04		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 8-13-04	HOURS TESTED 24	CHOKER SIZE 48/64	PROD'N. FOR TEST PERIOD →	OIL—BSL. -0-	GAS—MCF. 4443	WATER—BSL. -0-	GAS-OIL RATIO NA
FLOW, TUBING PRESS. 1033	CASING PRESSURE -0-	CALCULATED 24-HOUR RATE →	OIL—BSL. -0-	GAS—MCF. 4443	WATER—BSL. -0-	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 Admin</u>	DATE <u>August 30, 2004</u>

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

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
Wolfcamp	8302					
Strawn	9760					
Atoka	10275					
Morrow	10555					

OPERATOR: GRUY PETROLEUM
WELL/LEASE: WHITE CITY GAS COM 1
COUNTY: EDDY, NM

075-0027

STATE OF NEW MEXICO
DEVIATION REPORT

165	1	9,690	1 3/4
373	2 3/4	9,944	1 1/2
402	2 1/4	10,421	1
574	2	10,769	1
764	1 1/2	11,247	1 1/4
1,000	1 1/4	11,650	1 3/4
1,237	1/4		
1,585	1/2		
1,638	1		
1,891	1		
2,301	1		
2,680	1		
3,091	1		
3,464	1/2		
3,908	1		
4,319	1		
4,604	1/2		
4,983	1/2		
5,187	1 1/4		
5,680	1 1/2		
6,154	1		
6,567	1/2		
6,947	1/2		
7,327	1/2		
7,770	1		
8,181	1		
8,466	1		
8,576	1		
8,766	1 1/4		
9,084	1		
9,530	3		

RECEIVED

SEP 02 2004

ODD-ARTESIA

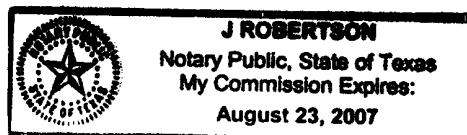
By: Steve Moore

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 19th day of May, 2004, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

J. Robertson
Notary Public for Midland County, Texas

My Commission Expires: 8/23/2007



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

RECEIVED

SEP 02 2004

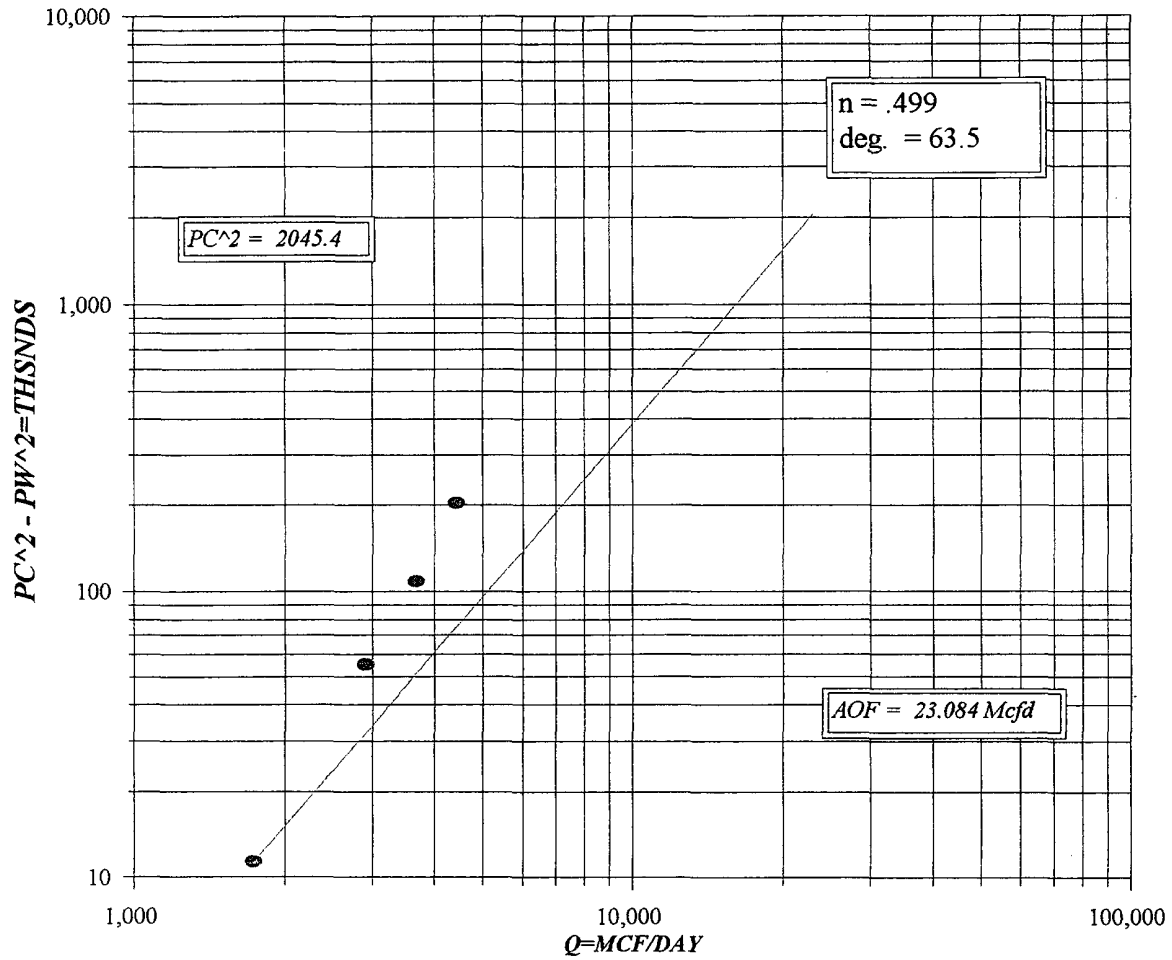
ODD-ARTERIA

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PETR. MANAGEMENT					Lease or Unit Name WHITE CITY 29 GAS COM UNIT1					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 8/13/04		Well No. 3			
Completion Date		Total Depth 11650		Plug Back TD 11440		Elevation		Unit Ltr - Sec - TWP - Rge 29 24S 26E		
Csg. Size 4 1/2	Wt. 11.6	d 4	Set At 11650	Perforations: From: 10809 To: 11334			County EDDY			
Tbg. Size 2 7/8 / 2 3/8	Wt. 6.5/4.7	d 2.44/1.99	Set At 10700	Perforations: From: To:			Pool			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10703			Formation			
Producing Thru TUBING		Reservoir Temp. 167		Mean Annual Temp. 60		Baro. Press.-P _a 13.2		Connection SALES		
L 10700	H 10700	Gg 0.583	%CO ₂ 1.357	%N ₂ 0.266	%H ₂ S	Prover	Meter Run 3.07	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						1417				
1	3.070 X 2.250		527	4	96	1373			1 HRS	
2	3.070 X 2.250		534	10.9	95	1281			1 HRS	
3	3.070 X 2.250		544	17.1	93	1181			1 HRS	
4	3.070 X 2.250		551	23.8	93	1033			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								1736		
2	TOTAL		FLOW	METER				2901		
3								3686		
4								4443		
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 0.583 XXXXXXXX					
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXXX					
4					Critical Pressure 676 P.S.I.A. P.S.I.A.					
5					Critical Temperature 345 R. R.					
P _c 1430.2 P _{c2} 2045.4										
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) $P_c^2 = \frac{178.166}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 13.279$					
1		1426.2	2034	11.4	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 23.084$					
2		1410.7	1990	55.4						
3		1391.7	1936.8	108.6						
4		1357.1	1841.8	203.6						
5										
Absolute Open Flow 23.084					Mcf @ 15.025		Angle of Slope (°): 63.5		Slope n: 0.499	
Remarks: * NO LIQUID MADE DURING TEST.										
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: BM		

GRUY PETR. MANAGEMENT
WHITE CITY 29 GAS COM UNIT "1" #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: White City Penn 29
IDENTIFICATION: Gas Com. 1 #3
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 8/12/04
ANALYSIS DATE: 8/13/04
PRESSURE - PSIG 497
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Leonard Abney
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.266	
Carbon Dioxide (CO2)	1.357	
Methane (C1)	96.577	
Ethane (C2)	1.336	0.356
Propane (C3)	0.167	0.046
i-Butane (IC4)	0.025	0.008
N-Butane (NC4)	0.037	0.012
i-Pentane (IC5)	0.015	0.005
N-Pentane (NC5)	0.010	0.004
Hexane Plus (C6+)	0.210	0.091

100.000

0.522

BTU/CU.FT. - DRY 1016
AT 14.650 DRY 1013
AT 14.650 WET 995
AT 14.73 DRY 1019
AT 14.73 WET 1001

MOLECULAR WT. 16.8865

SPECIFIC GRAVITY -
CALCULATED 0.583
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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-33316	Pool Code	Pool Name White City Penn; Gas
Property Code	Property Name WHITE CITY PENN 29 Gas Com Unit 1	Well Number 3
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT COMPANY	Elevation 3408'

Surface Location

UL or lot No. 1	Section 29	Township 24 S	Range 26 E	Lot Idn	Feet from the 1450	North/South line SOUTH	Feet from the 965	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

White City Penn Gas Com Unit 1 No. 1 660' White City Penn Gas Com Unit 1 No. 2 1650' NAD 27 NME GEODETIC COORDINATES Y-430987.9-N X-507477.3-E LAT. = 32°11'05.64" N LONG. = 104°18'33.00" W 2672' 3433.8' 3422.2' 600' 3405.5' 3397.3' 1450' RECEIVED SEP 02 2004 OGD-ARTESIA	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 August 30, 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. JANUARY 21, 2004 Date Surveyed LMP Signature & Seal of Professional Surveyor <i>Gary E. Edson 2/2/04</i> 04.11/00018 Certificate No. GARY EDSON 12641
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