

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.

N.M. DIV-Dist. 2

1301 W. Grand Avenue

Artesia, NM 88210

FOR APPROVED
OMB NO. 1004-0137

Expires: December 31, 1991

LEASE DESIGNATION AND SERIAL NO.

NMO402170

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SW1034

8. FARM OR LEASE NAME, WELL NO.

Allied B Federal Com No. 1

9. API WELL NO.

30-015-20864

10. FIELD AND POOL, OR WILDCAT

White City; Penn (Gas)

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec 22 T-24S- R-26E

12. COUNTY OR
PARISH
Eddy13. STATE
NM

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APR 28 2004

OCC-ARTESIA

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. REMOVR. ☒ Other Re-enter PA well

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 1750' FSL & 1650' FWL

At top prod. interval reported below 1750' FSL & 1650' FWL

At total depth 1750' FSL & 1650' FWL

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, OR, ETC.)*	19. ELEV. CASINGHEAD
11-13-03	12-06-03	02-28-04	3319.5' GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
11,700'	11,632'		→	All	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

White City; Penn 11192' - 11540'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Duel Spaced Neutron Correlation 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
9-5/8" K-55,S-80	36#	5375'	12-1/4"		
7" N-80	23#	3064'	8 3/4"	1000 sx Class C; circ 28 sx to pit	
4-1/2" P-100	11.6#	11697'	7-7/8"	1700 sx Int, Sup-H, Perm Neat TOC 6894'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	11092'	11092'

31. PERFORATION RECORD (Interval, size and number)

11516' - 11540' 6 JSFP 144 Holes

11192' - 11352' 6 JSFP 174 Holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11516' - 11540'	62000 gal 45# gel 7% KCL w/CO2/36500# 18/40 Vpr
11192' - 11352'	142000 gas 45# gel 7% KCL w/CO2/88850# 18/40 Vpr

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
02-28-04		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
03-03-04	24	48/64	→	-0-	741	-0-	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1050	-0-	→	-0-	741	-0-	NA	

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

Sold

35. LIST OF ATTACHMENTS

NM C-122, Correlation log

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Natalie Krueger

TITLE

Production Assistant

DATE

April 21, 2004

*(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
Morrow	10700					

Accepted for record - NMOCB

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

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APR 28 2004

OCB-ARTESIA

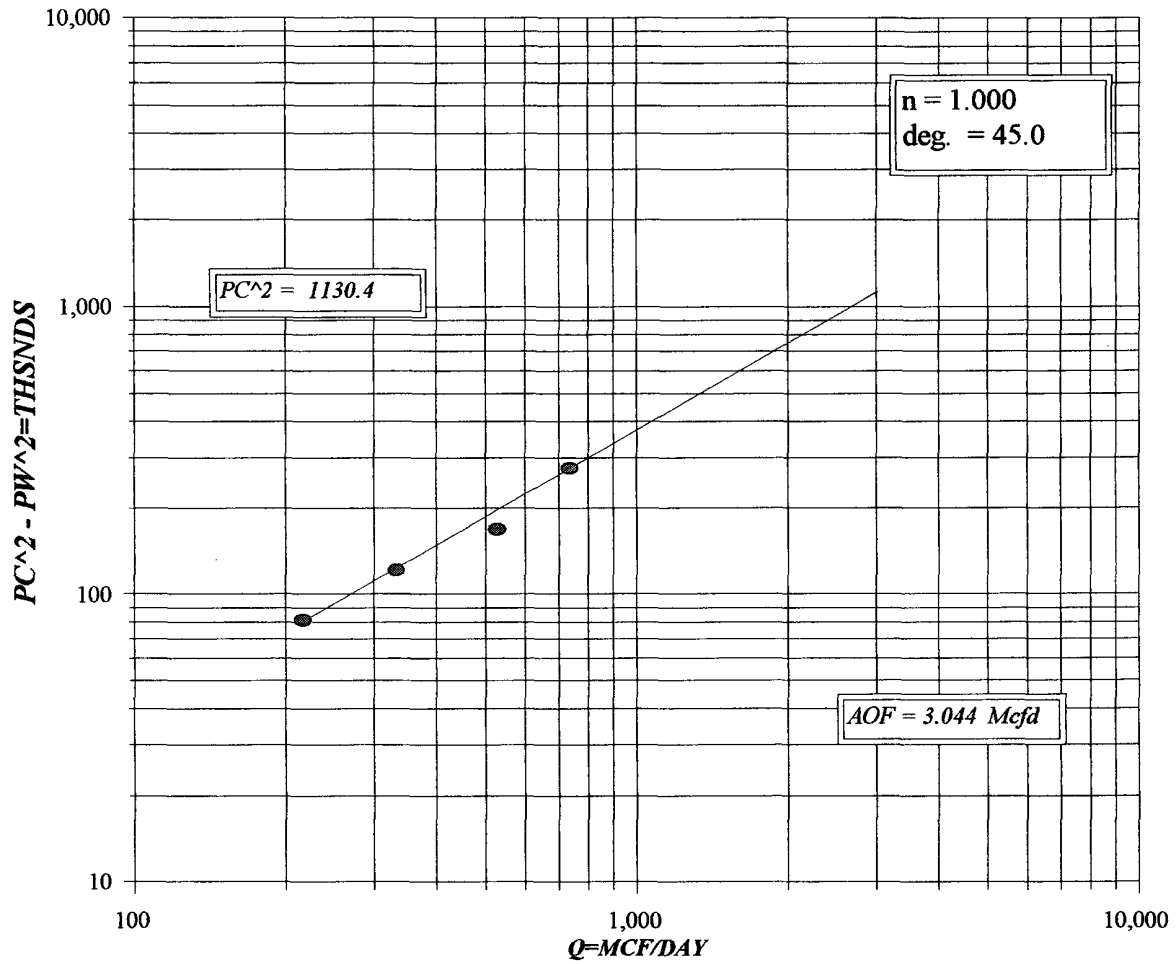
Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PET.MANAG.CO.				Lease or Unit Name ALLIED "B" FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/3/04		Well No. 1	
Completion Date 2/25/04		Total Depth 11700		Plug Back TD 11659		Elevation 3319	
Csg. Size 4 1/2	Wt. 11.5	d 4	Set At 11659	Perforations: From: 11192 To: 11540		Unit Ltr - Sec - TWP - Rge K 22 24S 26E	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11092	Perforations: From: To:		County EDDY	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11092		Formation WHITE CITY PENN	
Producing Thru TUBING		Reservoir Temp. 170		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
Connection SALES							
L 11092	H 11092	Gg 0.632	%CO ₂ 6.282	%N ₂ 0.238	%H ₂ S	Prover	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.	Press p.s.i.g.	Temp.
SI						1050	
1	4.026 X 1.625		188	0.9	56	1010	1 HRS
2	4.026 X 1.625		194	2.1	59	989	1 HRS
3	4.026 X 1.625		188	5.3	60	962	1 HRS
4	4.026 X 1.625		188	10.6	63	900	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							218
2	TOTAL	FLOW	METER				334
3							529
4							741
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 0.632 XXXXXXXX		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 694 P.S.I.A. P.S.I.A.		
5					Critical Temperature 354 R. R.		
P _c 1063.2 P _{c2} 1130.4							
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{4.109}{\quad}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{4.109}{\quad}$		
1		1024.1	1048.8	81.6			
2		1004.31	1008.7	121.7			
3		980.7	961.8	168.6			
4		924.8	885.3	275.1	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{3.044}{\quad}$		
5							
Absolute Open Flow 3.044				Mcf/d @ 15.025		Angle of Slope (°): 45	
						Slope n: 1	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

Accepted for record - NMOCD

GRUY PET. MANAGEMENT
ALLIED "B" FED COM #1



Accepted for record - NMOCD

COMPANY : GRUY PET. MANAGEMENT CO		LEASE : ALLIED B FED COM		WELL NO. : 1		Pc = 1063.2		Pc2 = 1130.4		*[[	
UNIT : K		SECTION : 22		TOWNSHIP : 24S		P12 = 1046.9		Pw = 1024.1		*[[	
L : 11092		H : 11092		L/H : 1		G/GMIX : 0.632		1004.4		1004.3	
%CO2 : 6.282		%N2 : 0.238		H2S : 8197.0		DATE : 3-3-04		951.0		980.7	
d : 1.995		Fr : 0.018183		GH : 8197.0		RANGE : 26E		833.9		924.8	
VOL 1 : 218		PSIA 1 : 1023.2		RESV.TEMP : 170.0		Pc2-Pw2 = 81.6		Pw2 = 1048.8		*[[	
VOL 2 : 334		PSIA 2 : 1002.2		SHUT-IN PRESS : 2684.2		121.7		1008.7		*[[	
VOL 3 : 529		PSIA 3 : 975.2				168.6		961.8		*[[	
VOL 4 : 741		PSIA 4 : 913.2				275.1		855.3		*[[	
		PCR : 694				n = 1.000				*[[	
		TCR : 354				Pc2/(Pc2-Pw2) = 13.846				*[[	
LINE		RATE 1		RATE 2		RATE 3		RATE 4		*[[	
		1ST		2ND		1ST		2ND		*[[	
1 QM		0.218		0.334		0.529		0.741		*[[	
2 TW		534		534		534		534		*[[	
3 Ts		630.0		630.0		630.0		630.0		*[[	
4 T		582.0		582.0		582.0		582.0		*[[	
PR (est)		1.47		1.44		1.41		1.32		*[[	
5 Z(est)		0.879		0.866		0.883		0.875		*[[	
6 TZ		511.8		504.0		512.8		506.3		*[[	
7 GH/TZ		16.015		16.263		15.985		16.191		*[[	
8 eS		1.823		1.840		1.821		1.835		*[[	
9 i-e-S		0.451		0.457		0.451		0.456		*[[	
10 Pt		1023.2		1023.2		1002.2		975.2		*[[	
11 Pt2 /1000		1046.9		1046.9		1004.4		951.0		*[[	
12 Fr		0.018183		0.018183		0.018183		0.018183		*[[	
13 Fc=FrTZ		9.307		9.165		9.324		9.206		*[[	
14 FcQm		2.03		2.00		3.11		3.07		*[[	
15 L/H(FcQm)2		4.1		4.0		9.7		9.4		*[[	
16 Fw		1.8584732		1.8224301		4.372963		4.2887564		*[[	
17 Pw2		1048.8		1048.8		1008.8		1008.7		*[[	
18 Ps2		1912.1		1929.9		1837.1		1854.0		*[[	
19 Ps		1382.8		1389.2		1355.4		1361.6		*[[	
20 P		1203.0		1206.2		1178.8		1181.9		*[[	
21 Pr		1.73		1.74		1.70		1.66		*[[	
22 Tr		1.64		1.64		1.64		1.64		*[[	
23 Z		0.866		0.866		0.868		0.870		*[[	
										FORM C122-D	

Accepted for record - NMOCID



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: Allied "B" Fed. Com. #1
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 3/3/04
ANALYSIS DATE: 3/4/04
PRESSURE - PSIG 190
SAMPLE TEMP. °F 62
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)	0.238	
Carbon Dioxide (CO2)	6.282	
Methane (C1)	91.577	
Ethane (C2)	1.339	0.357
Propane (C3)	0.184	0.051
I-Butane (IC4)	0.032	0.010
N-Butane (NC4)	0.024	0.008
I-Pentane (IC5)	0.015	0.005
N-Pentane (NC5)	0.020	0.007
Hexane Plus (C6+)	0.289	0.125
	100.000	0.563
BTU/CU.FT. - DRY	970	MOLECULAR WT. 18.3294
AT 14.650 DRY	967	
AT 14.650 WET	950	
AT 14.73 DRY	972	
AT 14.73 WET	956	

SPECIFIC GRAVITY -
CALCULATED 0.632
MEASURED

Accepted for record - NMOCD

DISTRICT I

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

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

DISTRICT II

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III

1000 Rio Branos Rd., Artec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name White City; Penn
Property Code	Property Name ALLIED B FEDERAL	Well Number 1
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT CO.	Elevation 3312'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	22	24-S	26-E		1750'	SOUTH	1650'	WEST	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

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 CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Zeno Farris Printed Name Manager Operations Admin Title 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. Date July 31, 2003 Signature G. EIDSON Professional Surveyor Date 03.11.0829 Certificate No. 3238 12841
	RECEIVED APR 28 2004 OGD-ARTESIA
	GEODETIC COORDINATES NAD27 NME Y= 438614.5 N X= 515351.2 E LAT.= 32°12'01.30"N LONG.= 104°17'01.33"W

Accepted for record - NMOCED