

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Alamosa, N.M. 88801
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

9. LEASE DESIGNATION AND SERIAL NO.

NM 15295

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

32427

8. FARM OR LEASE NAME, WELL NO.

C K Federal No. 2

9. API WELL NO.

30-015-32809 S1

10. FIELD AND POOL, OR WILDCAT

White City; Penn (Gas)

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

Sec. 8; T24S; R26E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

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. REMVR. ☐ 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 1200' FNL & 1400' FEL

At top prod. interval reported below 1200' FNL & 1400' FEL

At total depth 1200' FNL & 1400' FEL

14. PERMIT NO.

DATE ISSUED

RECEIVED

JAN 01 2004

OCD-ARTESIA

15. DATE SPUDDED 06-15-03 16. DATE T.D. REACHED 07-18-03 17. DATE COMPL. (Ready to prod.) 11-04-03 18. ELEVATIONS (DP, RKB, RT, GR, ETC.)* 3843' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 12,060' 21. PLUG, BACK T.D., MD & TVD 11,765' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

White City; Penn (Gas) 11364' - 11732' Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Spaced Neutron & DLL Microguard

27. WAS WELL CORROD

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#	310'	17-1/2"	350 sx Prem Plus circ 125 sx to pit	
9-5/8" P-110	40#	1960'	12-1/4"	1200 sx Inter C/Prem/Thix circ 400 sx to pit	
5-1/2" N&P LTC	17#	12060'	8-3/4"	1875 sx Interfil/H TOC 5700'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	11,311'	11,311'

31. PERFORATION RECORD (Interval, size and number)

Please see attachment

DEC 30 2003

ALEXIS C. SWOBODA
PETROLEUM ENGINEER

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11-04-03		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-17-03	24	48/64	→	-0-	1130	170	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
260	-0-	→	-0-	1130	170	NA	

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

TEST WITNESSED BY

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 all available records

SIGNED

Natalia Kneeger

TITLE

Production Assistant

DATE

December 23, 2003

*(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	5550					
Wolfcamp	8550					
Strawn	10480					
Atoka	10920					
Morow	11380					

CK Federal No. 2 Perforation/Fracture/Acidization Attachment

30-015-32809

Eddy County, New Mexico

Perforation Record	Acid, Shot, Fracture, Cement Squeeze, Etc.	
	Depth Interval	Amount and Kind of Material Used
11790' - 11794' 4 spf 16 holes	11790' - 11794'	Squeezed with 200 sx Class H Cement
11644' - 11732' 6 spf 132 holes	11644' - 11732'	135000 gal foamed 45# 7% KCL/81500# 18/40 versaprop & CO2
11588' - 11592' 6 spf 24 holes	11588' - 11592'	20900 gal foamed 45# gel 7% KCL & CO2/ 15000# 18/40 versaprop
11364' - 11502' 6 spf 132 holes	11364' - 11502'	115000 gal foamed 45# gel 7% KCL & CO2/ 71000# 18/40 versaprop

OPERATOR: GRUY PETROLEUM
WELL/LEASE: C & K FED. 2
COUNTY: EDDY

080-0017

STATE OF NEW MEXICO
DEVIATION REPORT

310	1/2	10,299	2 3/4
600	3/4	10,533	1 3/4
896	3/4	10,777	1 3/4
1,368	1 1/4	11,061	3/4
1,930	3/4	11,332	1
2,289	1/4	11,831	1 1/2
2,787	1/2	12,060	1 1/2
3,277	3/4		
3,785	3/4		
3,988	1		
4,484	1		
4,966	1		
5,466	1		
5,946	2 1/2		
6,207	2 3/4		
6,237	2 3/4		
6,448	2 1/2		
6,552	2 1/2		
6,746	1 1/2		
7,048	1 1/2		
7,346	1 1/2		
7,694	1 1/2		
8,013	2		
8,468	1 1/4		
8,872	1 1/4		
8,900	2		
9,157	2		
9,348	2 1/4		
9,538	1 1/4		
9,823	1 3/4		

RECEIVED

JAN 01 2004

OCD-ARTESIA

By: Steve Moore

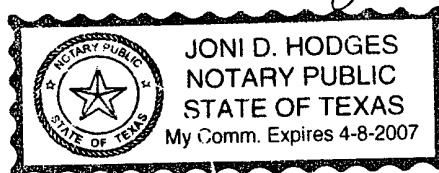
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 30th day of July, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

My Commission Expires: 4/08/2007

Joni D. Hodges
Notary Public for Midland County, Texas



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 Form C-122
Revised October, 1999

JAN 01 2004

OCD-ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PET. MANAGEMENT				Lease or Unit Name CK FED			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11/12/03	Well No. 2
Completion Date		Total Depth 12060		Plug Back TD 11765		Elevation	Unit Ltr - Sec - TWP - Rge 2 24S 26E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 12060	Perforations: From: 11364 To: 11732		County EDDY	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11311	Perforations: From: To:		Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11311		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 168	Mean Annual Temp. 60	Baro. Press.-P _a 13.2		Connection SALES	
L 11311	H 11311	Gg 0.64	%CO ₂ 7.83	%N ₂ 0.329	%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.	Temp.	
SI						1482				
1	4.026 X	1.125	240	85	74	265				24 HRS
2										
3										
4										
5										

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							1095
2	TOTAL	FLOW	METER				
3							
4							
5							

No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mcf bbl.
1							
2							
3	TOTAL	FLOW	METER				
4							
5							

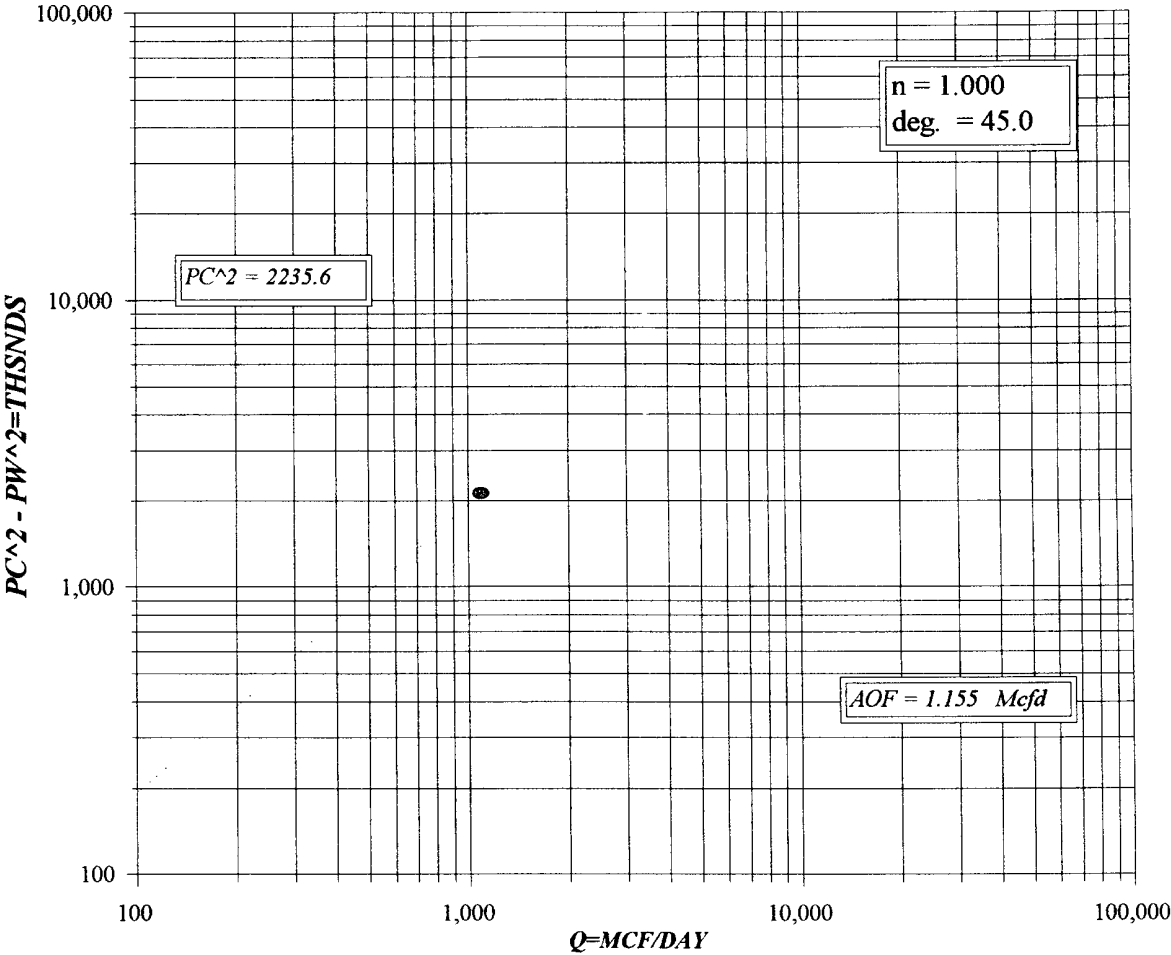
No.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		340.9	116.2	2119.4	1.055	1.055
2						
3						
4						
5						

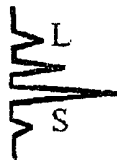
Absolute Open Flow		1.155	Mcf @ 15.025	Angle of Slope (°)	45	Slope n:	1
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Remarks:			
Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MERV BUECKER	BM

GRUY PETROLEUM MANAGEMENT

CK FED #2





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: OK Federal #2
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 11/12/03 11:45 am
ANALYSIS DATE: 11/13/03
PRESSURE - PSIG 297
SAMPLE TEMP. °F 75
ATMOS. TEMP. °F 81

GAS (XX) LIQUID ()
SAMPLED BY: Greg Myers
ANALYSIS BY: Vickie Biggs

REMARKS: Sampled @ the meter run.
Morrow Formation

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.329	
Carbon Dioxide (CO2)	7.830	
Methane (C1)	90.213	
Ethane (C2)	1.408	0.376
Propane (C3)	0.165	0.045
I-Butane (IC4)	0.025	0.008
N-Butane (NC4)	0.030	0.009
I-Pentane (IC5)	0.000	0.000
N-Pentane (NC5)	0.000	0.000
Hexane Plus (C6+)	0.000	0.000
	<u>100.000</u>	<u>0.488</u>
BTU/CU.FT. - DRY	942	MOLECULAR WT. 18.5364
AT 14.650 DRY	939	
AT 14.650 WET	923	
AT 14.73 DRY	944	
AT 14.73 WET	928	
SPECIFIC GRAVITY -		
CALCULATED	0.640	
MEASURED		

DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

DISTRICT II
P.O. Drawer 22, 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

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	Pool Code	Pool Name
		White City; Penn
Property Code	Property Name	Well Number
	C K FEDERAL	2
GRID No.	Operator Name	Elevation
162683	GRUY PETROLEUM MANAGEMENT CO.	3483'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	8	24-S	26-E		1200'	NORTH	1400	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

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

GEODETIC COORDINATES SPC NME NAD 1927 Y= 449589.6 X= 506903.1 LAT.= 32°14'09.73"N LONG.= 104°18'39.63"W RECEIVED JAN 01 7 00 PM OCD-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 Mgr. Operations, Admin. Title March 11, 2003 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. February 28, 2003 Date Surveyed Signature & Seal of Professional Surveyor AWB 3/4/03 62.17.0198 Certificate No. RONALD T. EDSON 3238 GARY EDSON 12841
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