

NMOC

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

5. LEASE DESIGNATION AND SERIAL NO.

NM 0475051

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SRM - 1144

8. FARM OR LEASE NAME, WELL NO.

Pennzoil 9 Federal Com 4

9. API WELL NO.

30-015-32545 S1

10. FIELD AND POOL, OR WILDCAT

White City; Penn (Gas)

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

Sec 9 T-24S- R-26E

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. PERVR. ☐ 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 1410' FNL & 1310' FEL

At top prod. interval reported below 1410' FNL & 1310' FEL

At total depth 1410' FNL & 1310' FEL

ACCEPTED FOR RECORD

JUL - 6 2004
ALEXIS C. SWOBODA
PETROLEUM ENGINEER

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

12-04-03

16. DATE T.D. REACHED

01-17-04

17. DATE COMPL. (Ready to prod.)

03-30-04

18. ELEVATIONS (DF, RKB, RT, OR, ETC.)*

3395' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

12000'

21. PLUG, BACK T.D., MD & TVD

11950'

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)*

11512' - 11568' Pennsylvanian

25. WAS DIRECTIONAL
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Neutron, Dual Laterolog

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-STC	54.5 #	438'	17-1/2"	740 sx Thix circ 126 sx	
9-5/8" P-110	40 #	3224'	12-1/4"	1000 sx Int C & Prem circ 200 sx	
7" P-110	26#	10058'	8-3/4"	1035 sx IntC/SupH/Prem TOC 1350'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4.5" HCP110	9543'	12028'	225 sx SupH		2-3/8"	11334'	11334'

31. PERFORATION RECORD (Interval, size and number)

11558' - 11568' 6 SPF 60 Holes

11422' - 11490' 3 SPF 204 Holes

11512' - 11532' 6 SPF 96 Holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11558' - 11568'	29000 gal 45# gel 7% KCL 18750# 18/40 Vprop
11422' - 11490'	150000 gal 45# gel 7% KCL 98000# 18/40 Vprop
	148200 # 20/40 interprop sand
11512' - 11532'	500 gal 15% HCC

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
03-30-04		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
04-07-04	24	22/64	→	-0-	2781	28	NA
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
700	-0-	→	-0-	2781	28	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

Natalie Kuege

TITLE

Production Assistant

DATE 06-02-04

*(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
				Cisco Canyon	9551'	
				Strawn	10238'	
				Aloka	10734'	
				Morrow	11354'	

Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

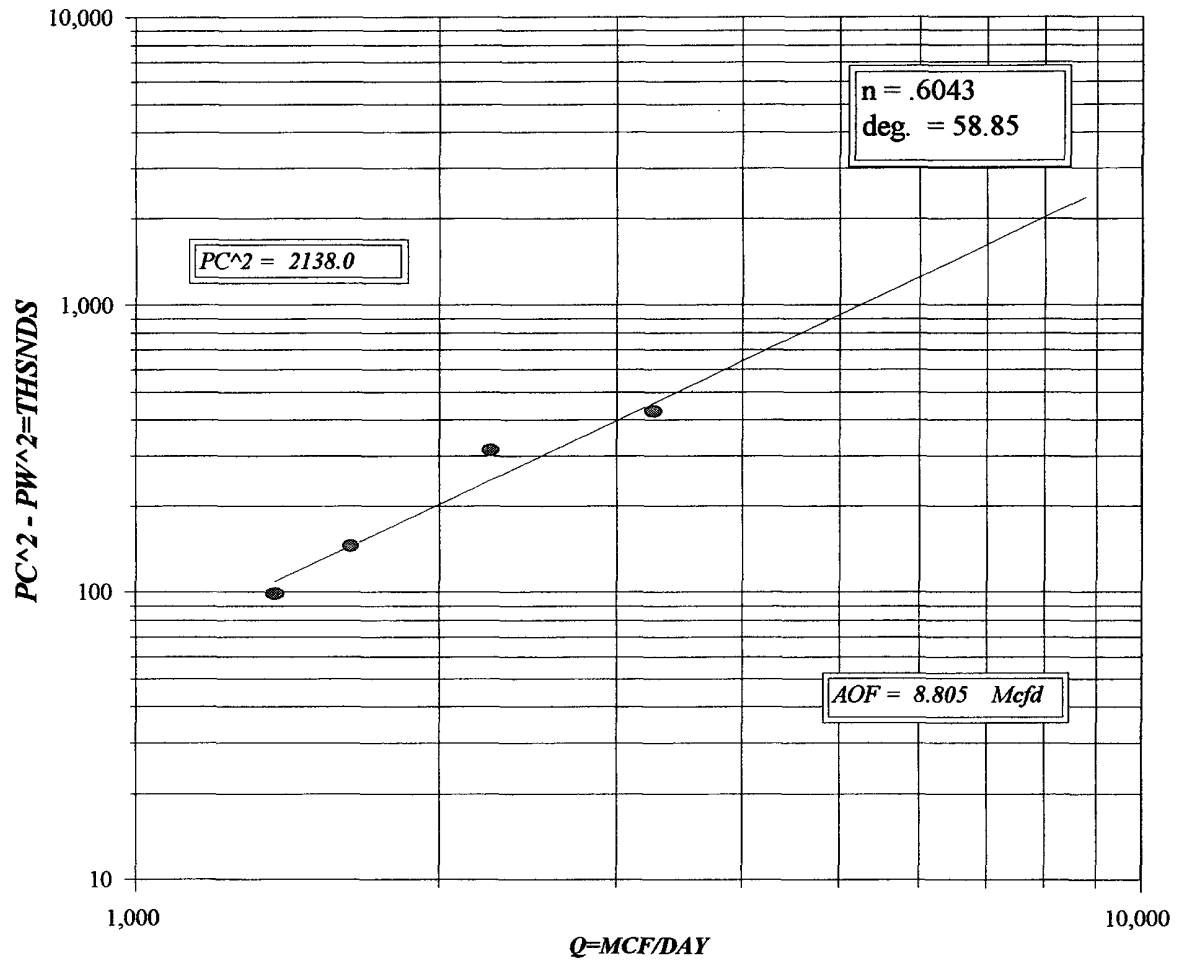
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PET.MANAG.CO.				Lease or Unit Name PENNZOIL "9" FED COM			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4/2/04		Well No. 4	
Completion Date 3/29/04		Total Depth 12050		Plug Back TD 11950		Elevation 3395 GL	
Csg. Size 4 1/2	Wt. 11.6	d 4	Set At 12027	Perforations: From: 11422 To: 11685		County EDDY	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11334	Perforations: From: To:		Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11334		Formation MORROW	
Producing Thru TUBING		Reservoir Temp. 173		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
L 11334		H 11334		Gg 0.588	%CO ₂ 2.166	%N ₂ 0.232	%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							
1	4.026 X 2.000		211	9	75	1449	
2	4.026 X 2.000		211	18.5	77	1384	
3	4.026 X 2.000		216	33.8	73	1287	
4	4.026 X 2.000		227	68.1	71	1152	
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}
1							
2	TOTAL		FLOW	METER			
3							
4							
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 0.588 XXXXXXXX		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 679 P.S.I.A. P.S.I.A.		
5					Critical Temperature 348 R. R		
P _c 1462.2 P _{c2} 2138.0							
No.	P _t ²	P _w	P _w ²	P _c ² -P _w ²	(1) P _c ² = 5.156 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 2.694		
1		1449.5	2101	98.8			
2		1433.5	2055.1	144.7			
3		1373.6	1886.9	312.9			
4		1331.6	1773.1	426.7			
5							
Absolute Open Flow 8.805 Mcfd @ 15.025				Angle of Slope (°): 58.8		Slope n: 0.6043	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

GRUY PET.MANAGEMENT
PENNZOIL "9" FED COM #4



COMPANY : GRUY PET. MANAGEMENT CO		LEASE : PENNZOIL "9" FED COMWELL NO.		4		Pc = 1462.2		Pc2 = 2199.8		*	
UNIT : H		SECTION : 9		TOWNSHIP : 24s		P12 = 2028.3		Pw = 1449.5		*	
L : 11334		H : 11334		L/H : 1		G/GMIX : 0.588		2028.3		1459.8	
%CO2 : 2.015		%N2 : 0.202		H2S : 1		DATE : 4/2/04		1690.5		1373.6	
d : 1.995		Fr : 0.018183		GH : 8197.0		RANGE : 26E		1357.7		1331.6	
=====											
VOL 1 : 1376		PSIA 1 : 1424.2		RESV.TEMP : 188.0		Pc2-Pw2= 98.8		Pw2 = 2101.0		*	
VOL 2 : 1636		PSIA 2 : 1424.2		SHUT-IN PRE= 1462.2		68.7		2131.1		*	
VOL 3 : 2254		PSIA 3 : 1300.2				312.9		1886.9		*	
VOL 4 : 3268		PSIA 4 : 1165.2				426.7		1773.1		*	
=====											
PCR : 679		TCR : 348				n = 0.604				*	
Pc2/(Pc2-Pw2) =						22.272				*	
						31.998				*	
						7.030				*	
						5.156				*	
=====											
LINE	RATE 1	RATE 2	RATE 3	RATE 4							
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND			
1 QM	1.376	1.376	1.636	1.636	2.254	2.254	3.268	3.268			
2 TW	534	534	534	534	534	534	534	534			
3 Ts	648.0	648.0	648.0	648.0	648.0	648.0	648.0	648.0			
4 T	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0			
PR(est)	2.10	2.10	1.91	1.91	1.72	1.72	1.72	1.72			
5 Z(est)	0.865	0.854	0.865	0.853	0.872	0.858	0.880	0.862			
6 TZ	511.3	504.4	511.3	504.3	515.2	507.1	520.0	509.7			
7 GH/TZ	16.031	16.250	16.031	16.255	15.909	16.164	15.764	16.082			
8 eS	1.824	1.839	1.824	1.840	1.816	1.833	1.806	1.828			
9 i-e-S	0.452	0.456	0.452	0.456	0.449	0.455	0.446	0.453			
10 Pt	1424.2	1424.2	1424.2	1424.2	1300.2	1300.2	1165.2	1165.2			
11 Pt2 /1000	2028.3	2028.3	2028.3	2028.3	1690.5	1690.5	1357.7	1357.7			
12 Fr	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183			
13 Fc=FrTZ	9.297	9.172	9.297	9.169	9.369	9.221	9.455	9.268			
14 FcQm	12.79	12.62	15.21	15.00	21.12	20.78	30.90	30.29			
15 L/H(FcQm)2	163.7	159.3	231.4	225.0	445.9	432.0	954.7	917.3			
16 Fw	73.947493	72.683963	104.53295	102.70724	200.35738	196.35599	426.10605	415.432466			
17 Pw2	2102.3	2101.0	2132.9	2131.1	1890.9	1886.9	1783.8	1773.1			
18 Ps2	3835.1	3864.4	3890.9	3920.3	3433.7	3459.3	3221.6	3240.8			
19 Ps	1958.3	1965.8	1972.5	1980.0	1853.0	1859.9	1794.9	1800.2			
20 P	1691.3	1695.0	1698.4	1702.1	1576.6	1580.1	1480.0	1482.7			
21 Pr	2.49	2.50	2.50	2.51	2.32	2.33	2.18	2.18			
22 Tr	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70			
23 Z	0.854	0.853	0.853	0.853	0.858	0.858	0.862	0.862			
=====											
										FORM C122-D	



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: Pennzoil "9" Fed. Com. #4
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 4/2/04
ANALYSIS DATE: 4/5/04
PRESSURE - PSIG 212
SAMPLE TEMP. °F 76
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)	0.232	
Carbon Dioxide (CO2)	2.166	
Methane (C1)	95.451	
Ethane (C2)	1.897	0.506
Propane (C3)	0.189	0.052
I-Butane (IC4)	0.038	0.012
N-Butane (NC4)	0.027	0.003
I-Pentane (IC5)	0.000	0.000
N-Pentane (NC5)	0.000	0.000
Hexane Plus (C6+)	0.000	
	100.000	0.578
BTU/CU.FT. - DRY	1005	MOLECULAR WT. 17.0201
AT 14.650 DRY	1001	
AT 14.650 WET	984	
AT 14.73 DRY	1007	
AT 14.73 WET	989	
SPECIFIC GRAVITY -		
CALCULATED	0.588	
MEASURED		

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

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 30-015-32545	Pool Code 87280	Pool Name White City; Penn (Gas)
Property Code	Property Name PENNZOIL 9 FEDERAL COM	Well Number 4
OGRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT CO.	Elevation 3395'

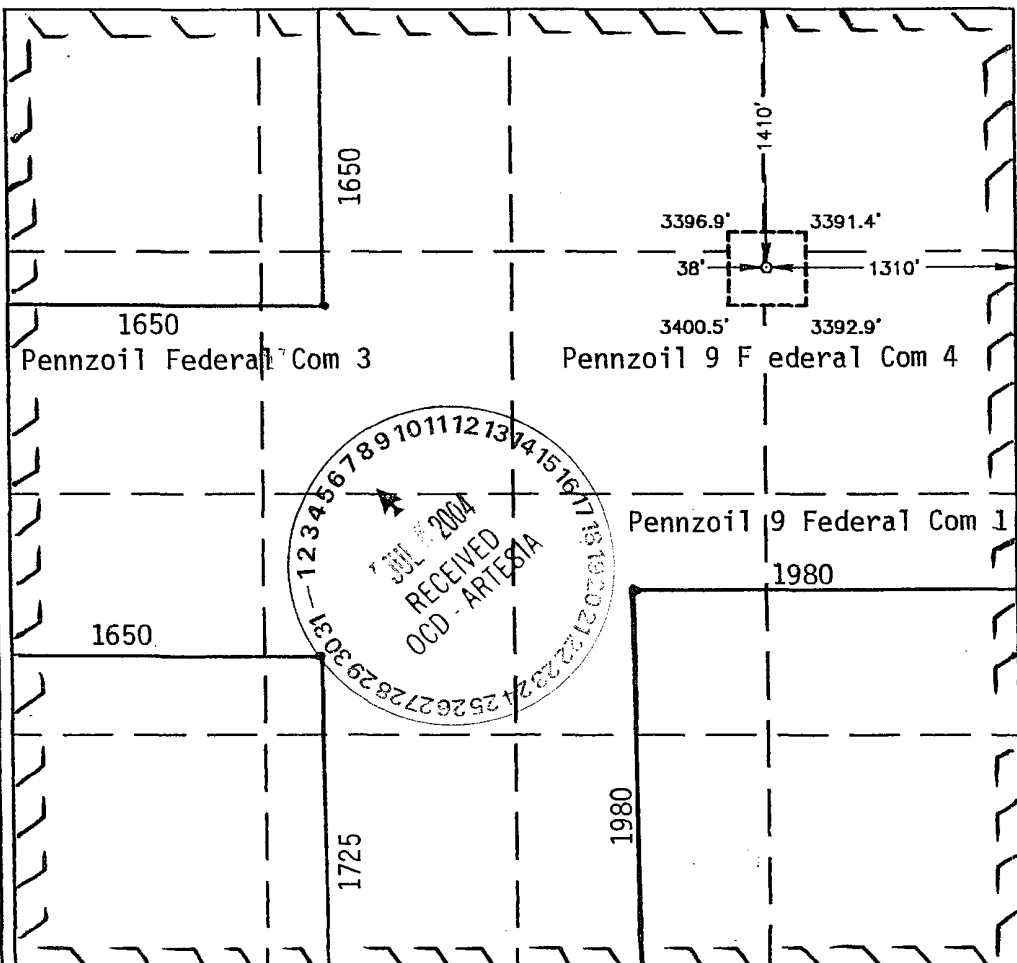
Surface Location

UL or lot No. H	Section 9	Township 24-S	Range 26-E	Lot Idn	Feet from the 1410'	North/South line NORTH	Feet from the 1310	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

	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. <u>Zeno Farris</u> Signature Zeno Farris Printed Name Mgr. Operations, Admin. Title June 2, 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. MAY 28, 2002 Date Surveyed Signature & Seal Professional Surveyor <u>Ronald D. Edson</u> Certificate No. RONALD D. EDSON 3239 GARY EDSON 12641
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OPERATOR: GRUY PETROLEUM
WELL/LEASE: PENNZOIL "9" FED. COM. 4
COUNTY: EDDY

080-0021

STATE OF NEW MEXICO
DEVIATION REPORT

207	1/4	8,285	1 3/4
744	1 1/4	8,481	2 1/4
837	1/2	8,604	2 1/4
1,190	1 1/4	8,800	1 1/2
1,472	3 1/2	9,086	2
1,627	4 1/2	9,330	1 1/2
1,723	4	9,652	2
1,817	4	9,847	2 1/2
1,944	3	10,230	4
2,170	2	10,320	4 3/4
2,584	2	10,458	4 1/4
2,964	3/4	10,639	6
3,554	1/2	10,711	5 3/4
4,057	1	10,776	5
4,451	1	10,807	5 1/4
4,951	1 1/4	10,935	5 1/4
5,252	1 1/2	11,159	5 1/4
5,590	1 1/2	11,575	4 1/2
6,008	2	12,050	4 1/2
6,134	2		
6,384	1 3/4		
6,584	2		
7,024	2		
7,242	2		
7,533	3		
7,655	2 3/4		
7,808	3		
7,956	3/4		
7,971	1 3/4		
8,097	2		



By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 2nd day of February, 2004, by Steve Moore on behalf of Patterson-UTL Drilling Company LP, LLLP.

J Robertson
Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007

