Form 3160-4

SIGNED

N.M. Oil Cons. DIV-Dis FOR APPROVED OMB NO. 1004-0137 Expires: December 31, 1991 UNITED STAGESW (SYPE (October 1990) DEPARTMENT OF THE ALE 5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMEN NMNM26105 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* 1a. TYPE OF WELL: WELL WELL X 7. UNIT AGREEMENT NAME Other L TYPE OF COMPLETION Pending WORK OVER DEEP-MEM X BACK 8. FARM OR LEASE NAME, WELL NO. Other 2. NAME OF OPERATOR Liberty 24 Fed Com 1 **ACCEPTED FOR RECORD** Gruy Petroleum Management Co 9. API WELL NO. DD 3. ADDRESS AND TELEPHONE NO. 30-015-33094 10. FIELD AND POOL, OR WILDCAT P O Box 140907 Irving Tx. 75014-0907 4. LOCATION OF WHILL (Report location clearly and in accordance with any space requirementally Cottonwood Draw; Upper Penn 1650' FNL & 1200' FWL At surface 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 1650' FNL & 1200' FWI At top prod. interval reported below ALEXIS C. SWOBODA Sec. 24; T25S; R26E PETROLEUM ENGINEER 1650' FNL & 1200' FWL At total depth COUNTY OR PARISH 14. PERMIT NO. DATE ISSUED 13. STATE Eddy NM 15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 19. ELEV. CASINGHEAD 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 01-29-04 04-04-04 3272' GR 10-18-04 21. PLUG, BACK T.D., MD & TVD 22. IF MI'LTIPLE COMPL., HOW MANY 23. INTERVALS 20. TOTAL DEPTH, MD & TVD ROTABY TOOLS CABLE TOOLS DRILLED BY All 12220 WAS DIRECTIONAL SURVEY MADE 24, PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD) 10236' - 10409' Cottonwood Draw; Upper Penn Up casing Yes 27. WAR WELL CORED 26. TYPE ELECTRIC AND OTHER LOGS BUN Dual Spaced Neutron & DLL Microguard No CASING RECORD (Report all strings set in well) CASING SIZE/GRADE WEIGHT, LB./FT. DEPTH SET (MD) ROLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 54.5 # 490 sx Prem Plus circ 150 sx to pit 13 - 3/8" J-55 17-1/2" 440 40# 12-1/4" 1700 sx Inter C/PremPlus circ 80 sx to pit 9-5/8" NS-110 5750 7" P-110 26# 10369 8-3/4" 350 sx Int H/Sup H TOC 10103' LINER RECORD TUBING RECORD 30. 29 DEPTH BET (MD) PACKER BET (MD) SIZE TOP (MD) BOTTOM (MD) SACKS CEMENTS SCREEN (MD) 217E 4-1/2 12300' 23/8" 10566 10103 235 sx Sup H 10566 31. PERFORATION RECORD (Interval, size and number ACID. SHOT. FRACTURE. CEMENT SQUEEZE, ETC. 10236' - 10409' 6 SPF DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 10236' - 10409' 7500 gal 15% NEFE <u>HCL</u> 20000 gal 15% Zonal Coverage 83.* PRODUCTION DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or Producing 10-18-04 Flowing DATE OF TEST HOURS TESTED CHOKE BIZE PROD'N. FOR TEST PERIOD OIL-BBL GAS-MCF. WATER-BEL. GAS-OIL BATIO 21/64 10-18-04 24 -0-208 -0-N/A CALCULATED 24-HOUR RATE WATER--REL OIL GRAVITY-API (CORR.) PLOW. TURING P CASING PRESSURE GAS -MCF BRI. 500 -0-208 -0-RECEIVED NA 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITHESED BY NOV 1 9 2004 Sold 25. LIST OF ATTACHMENTS

OQD ARTERIO Electric logs and Inclination Summary previously submitted with Morrow completion. 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

TITLE Manager Operations Administration

DATE ____11-11-04

*(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 38. GEOLOGIC MARKERS recoveries): DESCRIPTION, CONTENTS, ETC. FORMATION TOP BOTTOM TOP NAME TRUE MEAS, DEPTH VERT. DEPTH **Bone Springs** 5130 Wolfcamp 8620 Cisco 10230 Strawn 10430 Atoka 10663 Morrow 11320

Submit in duplicate to

State of New Mexico

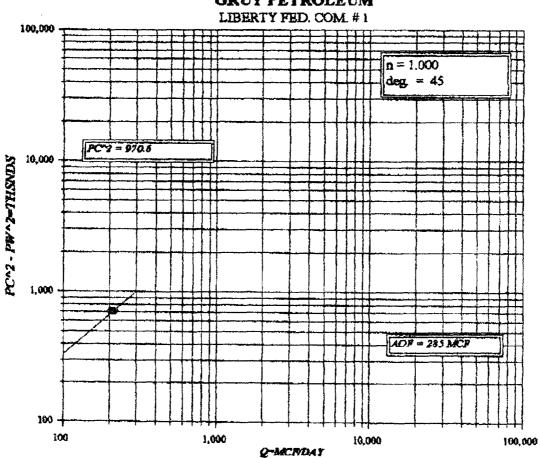
Form C-122

See Rule 401 & Rule 1122							Ene	Oil 9 2040				es			Revis	≥d Oct	tober, 1999
			N	MULT)INT	BACK	PRESSURE	TE	ST FOR C	GAS V				
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No.	P _r		Tem	ip. R		Tr	Z	-1	-	drocarbon Ratio			DK	Y GAS			Mcf bbl.
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4					<u> </u>		<u> </u>	_	al Pressur		···-	670	_ P.S	S.I.A.			_ P.S.I.A.
P _c	05	35.2		P _c 2	970	16	L	Critica	al Temper	rature		375		<u>R.</u>			R
								4		n 2		1.272			2)n	=	1 272
No.	P _t ²			w		$P_{\mathbf{w}}^{2}$	$P_c^2 - P_w^2$	(1)		$P_c^2 =$		1.372	(2)	P	2 n	= _	1.372

5					Critical Temperature	375	R	R
P _c	985.2	P _e 2	970.6					
No.	P _t ²	P_{w}	$P_{\mathbf{w}}^{-2}$	$P_c^2 - P_w^2$	$(1) P_c^2 =$	1.372	$(2) \int P_c^2$	n = 1.372
1		513.2	263.4	707.6	$\frac{1}{P_c^2 - P_w^2}$	-	${P_c^2 - P}$	2
2					$P_c - P_w$		Cr _c - P	w)
3					AOF = Q	P_c^2	n = 0	285
4		-					-	
5						$P_c^2 - P_w^2$	J	
Absol	lute Open Flow		285	Mcfd (@ 15.025 Angle of S	Slope ():	45	Slope, n: 1
Rema	rks:				* NO LIQUID DUR	ING TEST		

Approved By Division: Conducted By: Calculated By: Checked By: PRO WELL TESTING MERV BUECKER MB

GRUY PETROLEUM



Laboratory Services, Inc.

2609 West Marland Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Pro Well Testing & Wireline

P. O. Box 791

Hobbs, New Mexico 88241

SAMPLE:

IDENTIF!CATION Liberty 24 Fed. #1

COMPANY:

Gruy Petroleum

LEASE: PLANT:

SAMPLE DATA: DATE SAMPLED 10/18/04 10:30 am

10/19/04

ANALYSIS DATE:

PRESSURE - PSIG

429 77 GAS (XX)

LIQUID ()

SAMPLED BY:

Bob Ray

SAMPLE TEMP. °F ATMOS, TEMP, °F

ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	0.630	
Carbon Dioxide	(CO2)	0.522	
Methane	(C1)	87.044	
Ethane	(C2)	7.572	2.020
Propane	(C3)	2.097	0.576
I-Butane	(104)	0.472	0,154
N-Butane	(NC4)	0.590	0.186
I-Pentane	(IC5)	0.262	0.096
N-Pentane	(NC5)	0.188	0.068
Hexane Plus	(C6+)	0.623	0.270
	, ,		
		100.000	3.370
ממטיים מיים מיים	1 1+45	.	MOLECULAR WT. 19.0879
BTU/CU,FT, - DRY			MOLECULAR VVI. 19.0079
AT 14.650 DRY	1145		
AT 14.650 WET	1125		
AT 14.73 DRY	1151		
AT 14.73 WET	1131		
SPECIFIC GRAVIT CALCULATEI MEASUREI	0.658	3	

DISTRICT I P.O. Box 1980, Hobbs, NM 68241-1980

Rnergy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994

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

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

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

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code Pool 1	Name
30-015-33094	Cottonwood Draw; Upp	er Penn
Property Code	Property Name	Well Number
	LIBERTY 24 FEDERAL COM	1
OGRID No.	Operator Name	Elevation
162683	GRUY PETROLEUM MANAGEMENT CO.	3272'

Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	Ε	24	25-S	26-E		1650'	NORTH	1200'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill	Consolidation	Code 0	rder No.			<u> </u>	·
320	1	N	С						

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

OR A NON-STANDARD UNIT HAS BEE	AFROVED BI III	B DIVISION
3282.9' 1200' 3268.2' 600' 3263.5' Liberty 24 Fed com 1 GEODETIC COORDINATES NAD 27 NME Y= 406672.2 N X= 525639.3 E LAT.= 32'07'04.91"N LONG.= 104'15'01.86"W	RECEIVED NOV 1 9 7004	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and beltaf. Signature Zeno Farris Printed Name Manager Operations, Admin Title November 12, 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 supervison and that the same is true and correct to the best of my beltaf. August 07, 2003 Date Surveyed AWB Signature & Seri of my beltaf. AUGUST 07, 2003 Certificate No. RONALD: EDSON 3236 CERTY RUSSON 12841