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appropriate district office.
See Rule 401 & Rule 1122

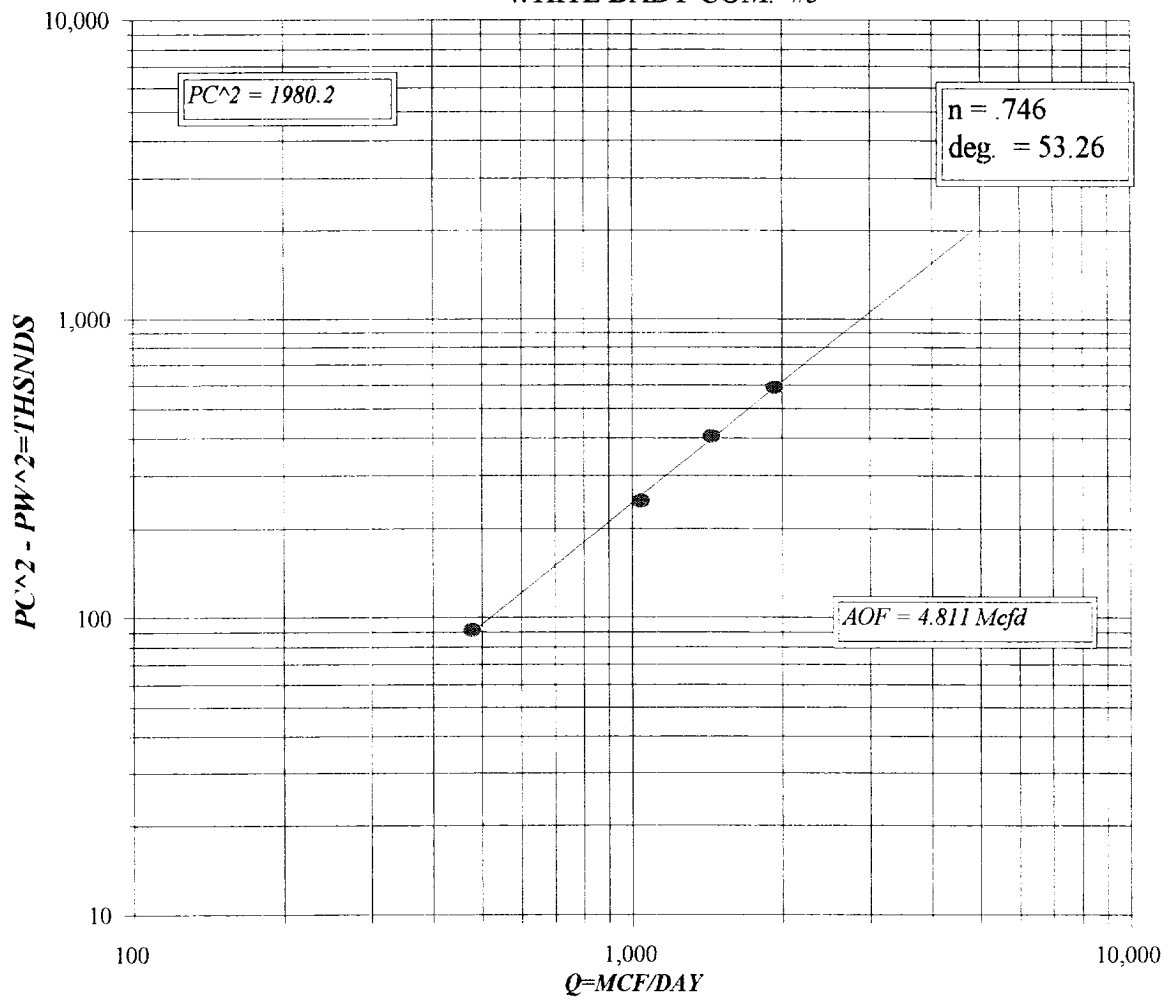
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

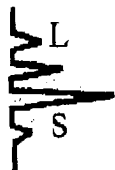
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator GRUY PET.				Lease or Unit Name WHITE BABY COM.			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8/15/02	Well No. 3
Completion Date 8/7/02		Total Depth 11710		Plug Back TD 11550		Elevation 3359	Unit Ltr - Sec - TWP - Rge 16 24S 26E
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 11710	Perforations: From: 11186 To: 11348		County EDDY	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11530	Perforations: From: To:		Pool <i>White C. Ly Penn</i>	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11530		Formation <i>MORROW Penn</i>	
Producing Thru Tubing		Reservoir Temp. °F 179	Mean Annual Temp. °F 60	Baro. Press.-P _a 13.2		Connection SALES	
L 11530	H 11530	Gg 0.583	%CO ₂ 1.959	%N ₂ 0.522	%H ₂ S N/A	Prover N/A	Meter Run 3.068
Taps FLG							
FLOW DATA			TUBING DATA			CASING DATA	
No.	Prover Line Size	Orifice x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI							
1	3.068 X 1.500		218	4.5	115	1360	
2	3.068 X 1.500		226	23	94	1298	
3	3.068 X 1.500		281	34	72	1230	
4	3.068 X 1.500		412	42	70	1144	
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							
3	TOTAL		FLOW	METER			
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 0.583 XXXXXXXX		
3	TOTAL	FLOW	METER		Specific Gravity Flowing Fluid N/A XXXXXX		
4					Critical Pressure 679 P.S.I.A. P.S.I.A.		
5					Critical Temperature 344 R. R.		
P _c 1407.2		P _{c2} 1980.2					
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{3.36}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.47$		
1		1374.3	1888.8	91.4	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.811$		
2		1316.9	1734.1	246.1			
3		1254.7	1574.3	405.9			
4		1179.4	1390.9	589.3			
5							
Absolute Open Flow 4.811				Mcf @ 15.025	Angle of Slope (°): 53.26	Slope n: 0.746	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

GRUY PET.
WHITE BABY COM. #3



COMPANY		GRUY PET		LEASE SECTION		WHITE BABY COM.		WELL NO		2		Pc = 1407.2		Pc2 = 1980.2	
UNIT		H		16		L/H		1		TOWNSHIP		24S		Pw = 1374.3	
L		11530		11530		G/GMIX		0.583		DATE		8/15/02		1316.9	
%CO2		1959		%N2		H2S		8197.0		RANGE		26E		1254.7	
d		1995		Fr		0.010763								1179.4	
VOL 1		481		PSIA 1		1373.2		RESV TEMP		179.0		Pc2-Pw2 =		914	
VOL 2		1050		PSIA 2		1311.2		SHUT-IN PREI =		1407.2				246.1	
VOL 3		1456		PSIA 3		1243.2								405.9	
VOL 4		1948		PSIA 4		1157.2								589.3	
				PCR		679						n =		0.746	
				TCR		344						Pc2/(Pc2-Pw2) =		21.661	
LINE		RATE 1		RATE 2		RATE 3		RATE 4						8.046	
		1ST		2ND		1ST		2ND		1ST		2ND		4.878	
														3.360	
1	QM	0.481	0.481	1.050	1.050	1.456	1.456	1.948	1.948			[Pc2/Pc2-Pw2]n =		9.918	
2	TW	534	534	534	534	534	534	534	534					4.738	
3	Ts	639.0	639.0	639.0	639.0	639.0	639.0	639.0	639.0					3.262	
4	T	586.5	586.5	586.5	586.5	586.5	586.5	586.5	586.5					2.470	
	PR (est)	2.02		1.93		1.83		1.70							
5	Z (est)	0.870	0.858	0.873	0.861	0.877	0.865	0.882	0.870			AOF = Q		4.770	
6	TZ	510.0	503.4	511.9	505.2	514.2	507.2	517.2	510.0					4.975	
7	GH/TZ	16.074	16.282	16.013	16.226	15.943	16.161	15.849	16.073					4.749	
8	eS	1.827	1.841	1.823	1.838	1.818	1.833	1.812	1.827					4.811	
9	le-S	0.453	0.457	0.451	0.456	0.450	0.454	0.448	0.453						
10	Pt	1373.2	1373.2	1311.2	1311.2	1243.2	1243.2	1157.2	1157.2						
11	Pt2 /1000	1885.7	1885.7	1719.2	1719.2	1545.5	1545.5	1339.1	1339.1						
12	Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763						
13	Fc=FrTZ	5.489	5.419	5.510	5.437	5.534	5.459	5.566	5.489						
14	FcQm	2.64	2.61	5.79	5.71	8.06	7.95	10.84	10.69						
15	L/H(FcQm)2	7.0	6.8	33.5	32.6	64.9	63.2	117.6	114.3						
16	Fw	3.1553705	3.1040584	15.109047	14.856405	29.214712	28.714165	52.684931	51.7556736						
17	Pw2	1888.8	1888.8	1734.4	1734.1	1574.8	1574.3	1391.8	1390.9						
18	Ps2	3451.2	3478.2	3161.7	3186.7	2863.2	2885.8	2521.7	2541.3						
19	Ps	1857.7	1865.0	1778.1	1785.1	1692.1	1698.8	1588.0	1594.1						
20	P	1615.5	1619.1	1544.7	1548.2	1467.7	1471.0	1372.6	1375.7						
21	Pr	2.38	2.38	2.27	2.28	2.16	2.17	2.02	2.03						
22	Tr	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70						
23	Z	0.858	0.858	0.861	0.861	0.865	0.865	0.870	0.869					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, Nw Mexico 88241

SAMPLE:
IDENTIFICATION: White Baby Com. #8
COMPANY: Gruy Petroleum
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 8/15/02 1:00 pm
ANALYSIS DATE: 8/16/02
PRESSURE - PSIG: 856
SAMPLE TEMP. °F: 70
ATMOS. TEMP. °F:

GAS (XX) LIQUID ()
SAMPLED BY: Richard Hicks
ANALYSIS BY: Rolland Perry

REMARKS: Sample taken @ the meter run.

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.522	
Carbon Dioxide (CO2)	1.957	
Methane (C1)	96.012	
Ethane (C2)	1.352	0.361
Propane (C3)	0.157	0.043
I-Butane (IC4)	0.000	0.000
N-Butane (NC4)	0.000	0.000
I-Pentane (IC5)	0.000	0.000
N-Pentane (NC5)	0.000	0.000
Hexane Plus (C6+)	0.000	0.000
	100.000	0.404

BTU/CU.FT. - DRY 998
AT 14.650 DRY 995
AT 14.650 WET 977
AT 14.73 DRY 1000
AT 14.73 WET 983

MOLECULAR WT. 16.8838

SPECIFIC GRAVITY -
CALCULATED 0.588
MEASURED