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appropriate district office.
See Rule 401 & Rule 1122

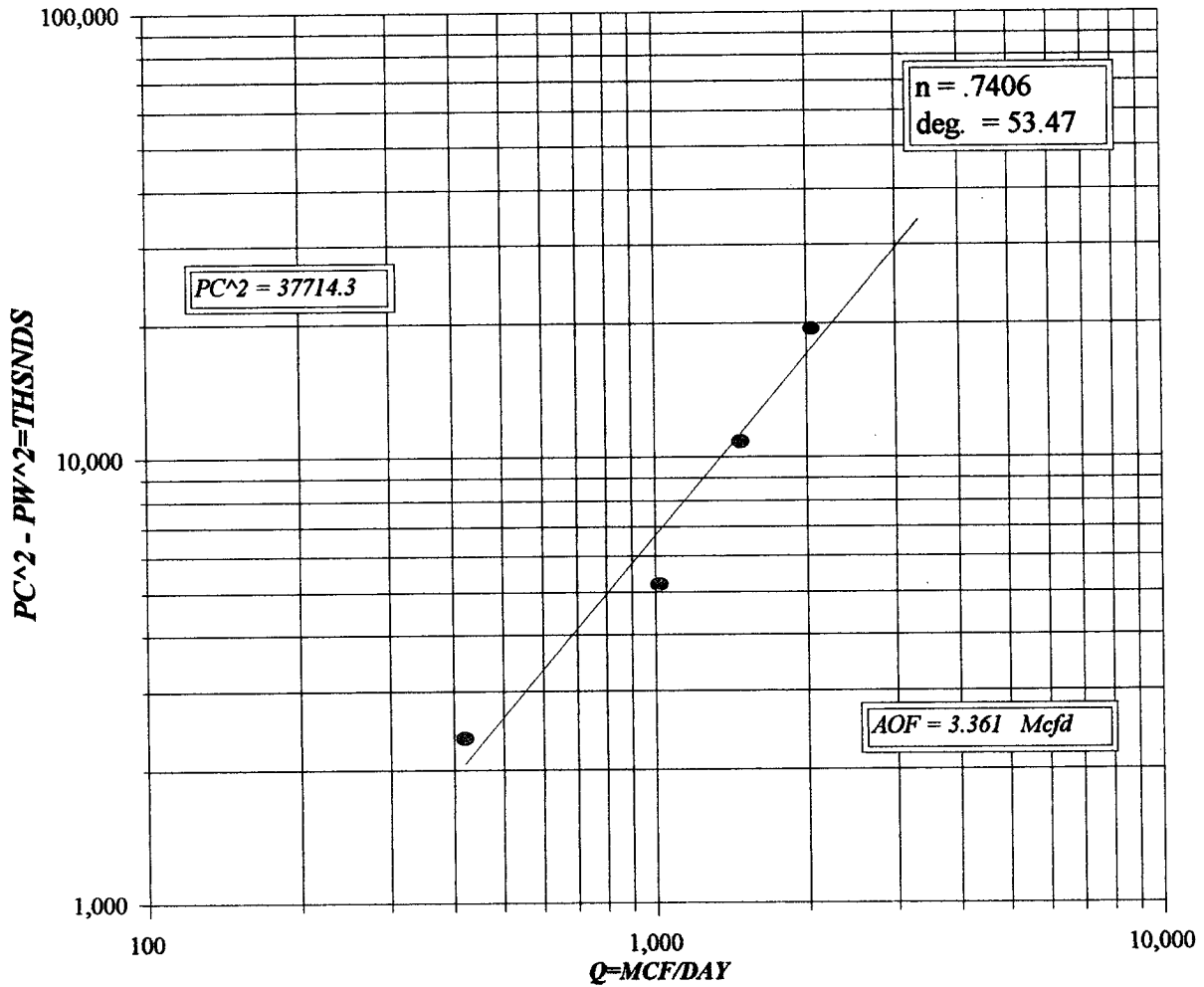
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator PURE RESOURCES					Lease or Unit Name GERONIMO 28 ST COM				
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/11/03		Well No. 1	
Completion Date		Total Depth 14314		Plug Back TD 14306		Elevation		Unit Ltr - Sec - TWP - Rge	
Csg. Size 4 1/2	Wt. 13.5	d 3.92	Set At 14306	Perforations: From: 13767 To: 13826				County LEA	
Tbg. Size 2 3/8 & 2 7/8	Wt. 4.7/8.7	d 1.99/2.25	Set At 11515/13753	Perforations: From: To:				Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 13614				Formation MORROW	
Producing Thru Tbg.		Reservoir Temp. °F 186.7		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection AIR	
L 13753	H 13753	Gg 0.656	%CO ₂ 0.454	%N ₂ 0.575	%H ₂ S	Prover	Meter Run 4.026	Taps FLG	
FLOW DATA			TUBING DATA			CASING DATA			Duration of Flow
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	
SI						6128		PKR	
1	4.026 X 1.500		280	3	40	5932			1 HR
2	4.026 X 1.500		280	18	45	5684			1 HR
3	4.026 X 1.500		280	40	60	5154			1 HR
4	4.026 X 1.500		280	76	60	4234			1 HR
5									
RATE OF FLOW CALCULATIONS									
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_n}$	Pressure P _n	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd	
1	10.84		29.66	293.2	1.02	1.235	1.037	420	
2	10.84		72.65	293.2	1.015	1.235	1.036	1023	
3	10.84		108.3	293.2	1	1.235	1.032	1486	
4	10.84		149.28	293.2	1	1.235	1.032	2062	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 18.943 Mcf bbl.				
1	0.43	500	1.33	0.93	A.P. I. Gravity of Liquid Hydrocarbons 51.6 @60 Deg.				
2	0.43	505	1.34	0.931	Specific Gravity Separator Gas XXXXXXXX				
3	0.43	520	1.38	0.939	Specific Gravity Flowing Fluid XXXXXX GMIX = .812				
4	0.43	520	1.38	0.939	Critical Pressure 670 P.S.I.A. 668 P.S.I.A.				
5					Critical Temperature 375 R. 424 R				
P _c 6141.2 P _{c2} 37714.3									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.934$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.63$				
1		5946	35354.9	2359.4					
2		5702	32512.5	5201.8					
3		5177.5	26806.7	10907.6	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.361$				
4		4268.2	18217.4	19496.9	79825				
5									
Absolute Open Flow 3361 Mcfd @ 15.025					Angle of Slope (°): 53.47		Slope n: 0.7406		
Remarks: * WELL MADE 11 BBLS OF 51.6 API GRAVITY CONDENSATE DURING TEST.									
Approved By Division:			Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER			Checked By: BM	

PURE RESOURCES
GERONIMO "28" ST. COM #1



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COMPANY : PURE RESOURCES		LEASE : GERONIMO 28 ST. COM		WELL# : 1		Pc = 61412		Pc2 = 37714.3	
UNIT :		SECTION :		TOWNSHIP :		P12 = 35345.4		Pw = 5946.0	
L : 13753	H : 13753	L/H : 1	G/GMIX : 0.656	DATE : 2/11/03		32458.1		5702.0	
%CO2 : 0.454	%N2 : 0.575	H2S : 0.018153	GH : 8197.0	RANGE :		26700.0		5177.5	
d : 1.92	Fr : 0.018153					18038.7		4268.2	
VOL 1 : 420		PSIA 1 : 5945.2		RESV.TEMP : 186.7		Pc2-Pw2 = 2359.4		Pw2 = 35354.9	
VOL 2 : 1023		PSIA 2 : 5697.2				5201.8		32512.5	
VOL 3 : 1486		PSIA 3 : 5167.2		SHUT-IN PRE = 61412		10907.6		26806.7	
VOL 4 : 2062		PSIA 4 : 4247.2				19496.9		18217.4	
		PCR : 668				n = 0.741			
		TCR : 424				Pc2/(Pc2-Pw2) =		15.985	
LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 QM	0.420	0.420	1.023	1.023	1.486	1.486	2.062	2.062	
2 TW	534	534	534	534	534	534	534	534	
3 Ts	646.7	646.7	646.7	646.7	646.7	646.7	646.7	646.7	
4 T	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	
PR (est)	8.90		8.53		7.74		6.36		
5 Z(est)	1.023	1.123	0.995	1.093	0.935	1.030	0.834	0.920	
6 TZ	604.2	662.8	587.4	645.4	551.8	608.1	492.2	543.3	
7 GH/TZ	13.567	12.368	13.955	12.700	14.854	13.480	16.655	15.088	
8 eS	1.663	1.590	1.688	1.610	1.745	1.658	1.867	1.761	
9 I-e-S	0.399	0.371	0.407	0.379	0.427	0.397	0.465	0.432	
10 Pt	5945.2	5945.2	5697.2	5697.2	5167.2	5167.2	4247.2	4247.2	
11 P12 /1000	35345.4	35345.4	32458.1	32458.1	26700.0	26700.0	18038.7	18038.7	
12 Fr	0.018153	0.018153	0.018153	0.018153	0.018153	0.018153	0.018153	0.018153	
13 Fc=FrTZ	10.968	12.031	10.663	11.716	10.018	11.039	8.934	9.862	
14 FcQm	4.61	5.05	10.91	11.99	14.89	16.40	18.42	20.34	
15 L/H(FcQm)2	21.2	25.5	119.0	143.7	221.6	269.1	339.4	413.5	
16 Fw	8.4614844	9.4757749	48.482206	54.431358	94.64114	106.76898	157.64119	178.689955	
17 Pw2	35353.9	35354.9	32506.6	32512.5	26794.6	26806.7	18196.3	18217.4	
18 Ps2	58801.9	56217.7	54857.6	52346.8	46769.0	44440.0	33981.0	32078.2	
19 Ps	7668.2	7497.8	7406.6	7235.1	6838.8	6666.3	5829.3	5663.8	
20 P	6806.7	6721.5	6551.9	6466.2	6003.0	5916.8	5038.3	4955.5	
21 Pr	10.19	10.06	9.81	9.68	8.99	8.86	7.54	7.42	
22 Tr	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	
23 Z	1.123	1.113	1.093	1.083	1.030	1.020	0.920	0.911	

FORM C122-D

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NEW MEXICO G.O.R./G. MIX

NO. OF BBLS PRODUCED = 11.0

API GRAVITY @ 60 DEG. = 51.6

SPECIFIC GRAVITY OF GAS = 0.6560

XX
TOTAL GAS PRODUCED = 208

G.O.R. = 18.943

G.MIX = 0.812

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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: Geronimo 28 St. Com. #1
COMPANY: Pure Resources
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/11/03 11:00 am
ANALYSIS DATE: 2/12/03
PRESSURE - PSIG 280
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Pro Well
ANALYSIS BY: Vickie Biggs

REMARKS: Condensate API Gravity @ 60° F = 51.6

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.575	
Carbon Dioxide (CO2)	0.454	
Methane (C1)	86.630	
Ethane (C2)	7.751	2.068
Propane (C3)	2.912	0.801
I-Butane (IC4)	0.367	0.120
N-Butane (NC4)	0.800	0.189
I-Pentane (IC5)	0.157	0.057
N-Pentane (NC5)	0.124	0.045
Hexane Plus (C6+)	0.430	0.187
	100.000	3.467

BTU/CU.FT. - DRY 1149
AT 14.650 DRY 1145
AT 14.650 WET 1125
AT 14.73 DRY 1151
AT 14.73 WET 1131

MOLECULAR WT. 19.0887

SPECIFIC GRAVITY -
CALCULATED 0.656
MEASURED

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