

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: E.O.G. Resources, Inc.						Lease or Unit Name: Contract St. Co.								
Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 4/1/00 Well No.: 2								
Completion Date: 3-28-00			Total Depth			Plug Back TD			Elevation			Unit Ltr. - Sec. - TWP - Rge. B 4 17 28		
Csg. Size: 5 1/2"		Wt. 20#		D 4.767		Set At 9,965		Perforations: From: 9,575' To: 9,670'			County: Eddy			
Thg. Size: N/A		Wt. N/A		D N/A		Set At N/A		Perforations: From: N/A To: N/A			Pool: Crow Flat Morrow SE			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single						Packer Set At: N/A						Formation: Morrow		
Producing Thru Csg.		Reservoir Temp. °F. 152.8 @ 9575'			Mean Annual Temp. °F. 60			Baro. Press - P _a : 13.2			Connection:			
L 9575		H: 9575.5'		Gg: .637		%CO ₂ : .548		%N ₂ : .415		%H ₂ S:		Prover:		
												Meter Run 6.065 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. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						N/A		1910		72 Hrs
1.	6"	x	3.000	364	4.3	76	N/A	1830		1 Hr.
2.	6"	x	3.000	422	10.8	54	N/A	1674		1 Hr.
3.	6"	x	3.000	466	19.6	45	N/A	1496		1 Hr.
4.	6"	x	3.000	481	27.7	48	N/A	1351		1 Hr.
5.										

RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 HOUR)	$\frac{1}{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	44.51	40.27	377.2	.9850	1.253	1.034	2,287
2.	44.51	68.56	435.2	1.006	1.253	1.044	4,016
3.	44.51	95.69	467.2	1.015	1.253	1.052	5,699
4.	44.51	117.00	494.2	1.012	1.253	1.056	6,973
5.							

No.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio
1.	.56	536	1.45	.936	52.708 Mcf/bbl.
2.	.64	514	1.39	.917	A. P. I. Gravity of Liquid Hydrocarbons 58.0 @ 60 Deg.
3.	.69	505	1.37	.903	Specific Gravity Separator Gas .637 XXXXXXXXXX
4.	.73	508	1.38	.897	Specific Gravity Flowing Fluid XXXXXX Gmix=...692
5.					Critical Pressure 670 P.S.I.A. 699 P.S.I.A.
					Critical Temperature 368 R. 388 R

P _c 1923.2		P _{c2} 3698.7	
No.	P _i ²	P _w	P _w ²
1.	N/A	1843.6	3398.9
2.	N/A	1688.6	2851.3
3.	N/A	1572.3	2287.2
4.	N/A	1369.5	1875.5
5.			

(1) P_{c2} = 2.029

$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$

AOF = Q

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.668$

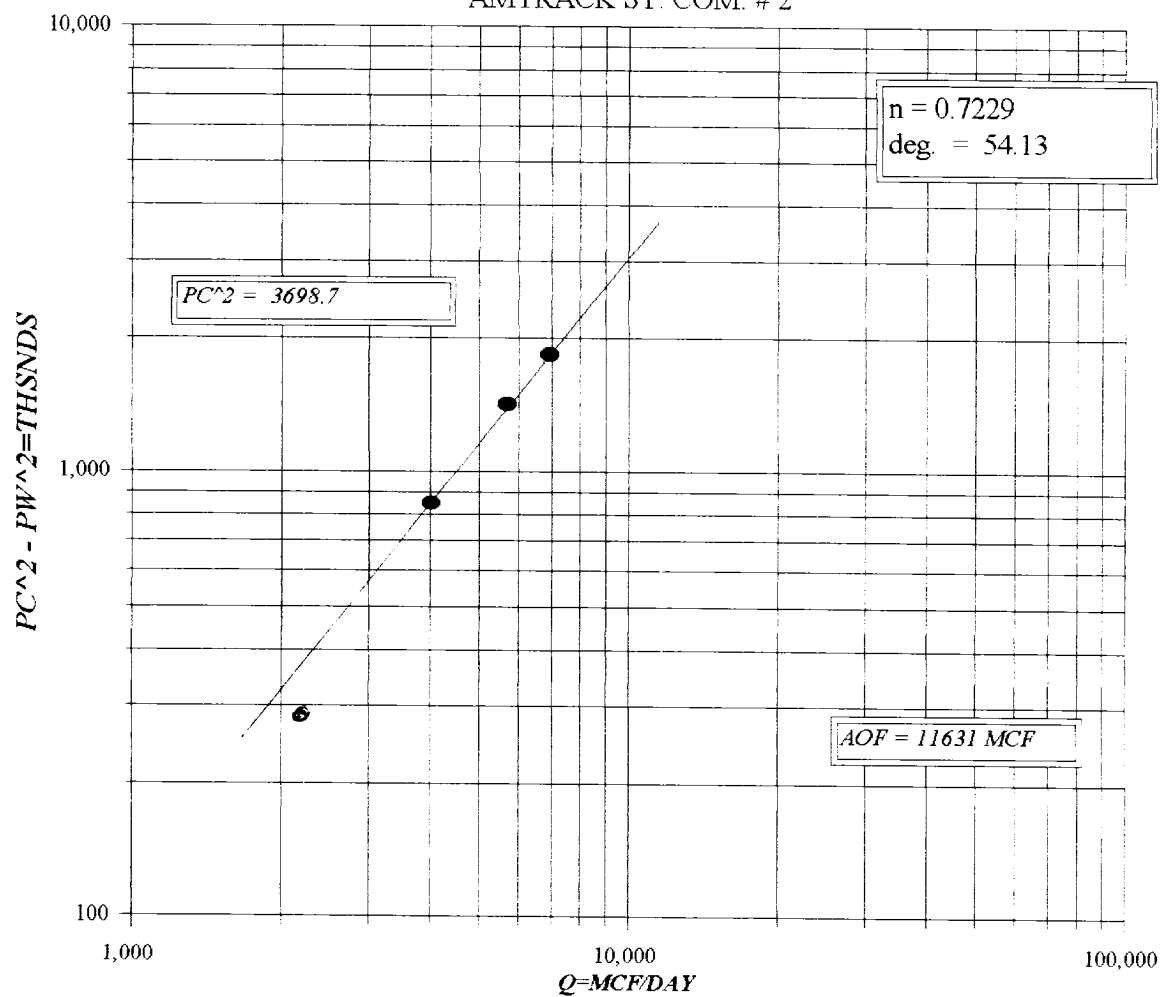
$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11.631$

Absolute Open Flow 11,631 Mcfd @ 15.025		Angle of Slope θ: 54.13		Slope, n: .7229	
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Remarks: Well Produced 15.00 bbls of 58.0 API Gr. Condensate			
Approved By Division		Conducted By: Production Testing Services, Inc. 505-391-8703	
Calculated By: Bob Murray, Independent Consultant 505-395-2349		Checked By: Bob Murray, Independent Consultant 505-395-2349	

E.O.G. RESOURCES, INC.

AMTRACK ST. COM. # 2



505-391-8703

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Absolute Open Flow Field Data Sheet