

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

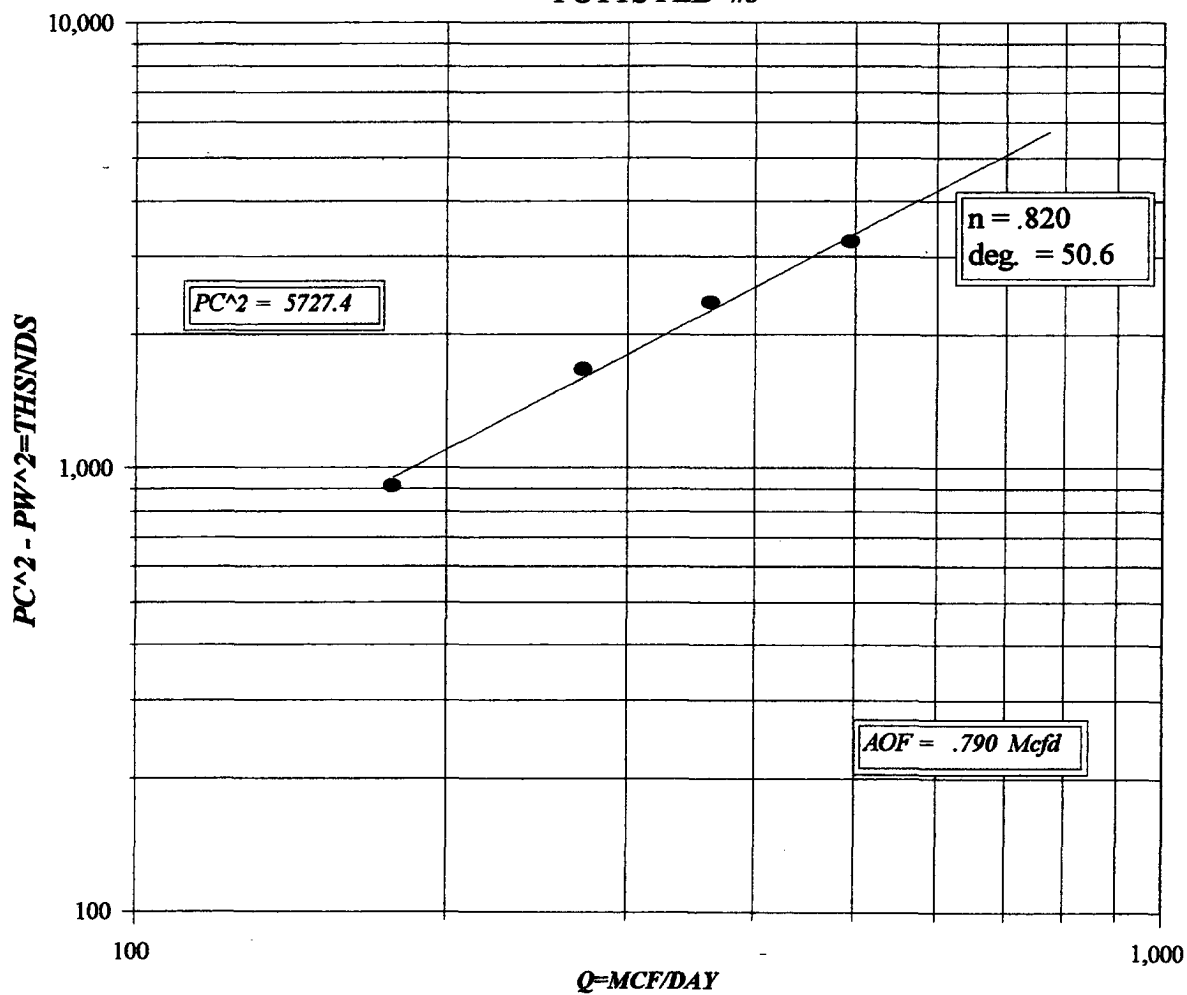
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator SAGA				Lease or Unit Name POTTS FED			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8/6/03	Well No. 3
Completion Date		Total Depth		Plug Back TD 11145		Elevation	Unit Ltr - Sec - TWP - Rge 13 20S 27E
Csg. Size	Wt.	d	Set At	Perforations: From: 11124 To: 11234			County EDDY
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11088	Perforations: From: To:			Pool
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11088		Formation	
Producing Thru Tubing		Reservoir Temp. °F 184	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2			Connection SALES
L 11088	H -11088	Gg 0.596	%CO ₂ 0.782	%N ₂ 0.28	%H ₂ S N/A	Prover N/A	Meter Run 4.026
							Taps FLG
FLOW DATA				TUBING DATA		CASING DATA	
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI							
1	4.026 X 1.500		89	1.9	112	2180	
2	4.026 X 1.500		93	4.3	112	2000	
3	4.026 X 1.500		96	7.4	114	1819	
4	4.026 X 1.500		100	13	112	1561	
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		
1					N/A		
2					A.P. I. Gravity of Liquid Hydrocarbons		
3					N/A		
4					Specific Gravity Separator Gas		
5					0.596		
					Specific Gravity Flowing Fluid		
					N/A		
					Critical Pressure		
					675		
					Critical Temperature		
					350		
					P.S.I.A.		
					R		
					P.S.I.A.		
					R		
P _o	2393.2	P _{c2}	5727.4				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1		2193.3	4810.5	916.9			
2		2013.4	4053.9	1673.5			
3		1832.7	3358.7	2368.7			
4		1575.2	2481.3	3246.1			
5							
(1) $P_c^2 = \frac{1.76}{P_c^2 - P_w^2}$					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.593$		
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .790$							
Absolute Open Flow				.790	Mcf/d @ 15.025	Angle of Slope (°):	50.6
					Slope n:	0.82	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By:		Calculated By:		Checked By:	
		PRO WELL TESTING		MERV BUECKER		MB	

SAGA
POTTS FED #3





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: Potts Fed. #3
COMPANY: Saga
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 8/11/08 6:00 am
ANALYSIS DATE: 8/11/08
PRESSURE - PSIG 100
SAMPLE TEMP. °F 100
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: J. Rice
ANALYSIS BY: Vickie Biggs

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.280	
Carbon Dioxide (CO2)	0.782	
Methane (C1)	94.213	
Ethane (C2)	3.496	0.983
Propane (C3)	0.760	0.209
I-Butane (IC4)	0.110	0.036
N-Butane (NC4)	0.180	0.041
I-Pentane (IC5)	0.050	0.018
N-Pentane (NC5)	0.050	0.018
Hexane Plus (C6+)	0.129	0.056
	100.000	1.311

BTU/CU.FT. - DRY 1051
AT 14.650 DRY 1047
AT 14.650 WET 1029
AT 14.73 DRY 1053
AT 14.73 WET 1035

MOLECULAR WT. 17.2519

SPECIFIC GRAVITY -
CALCULATED 0.596
MEASURED

