

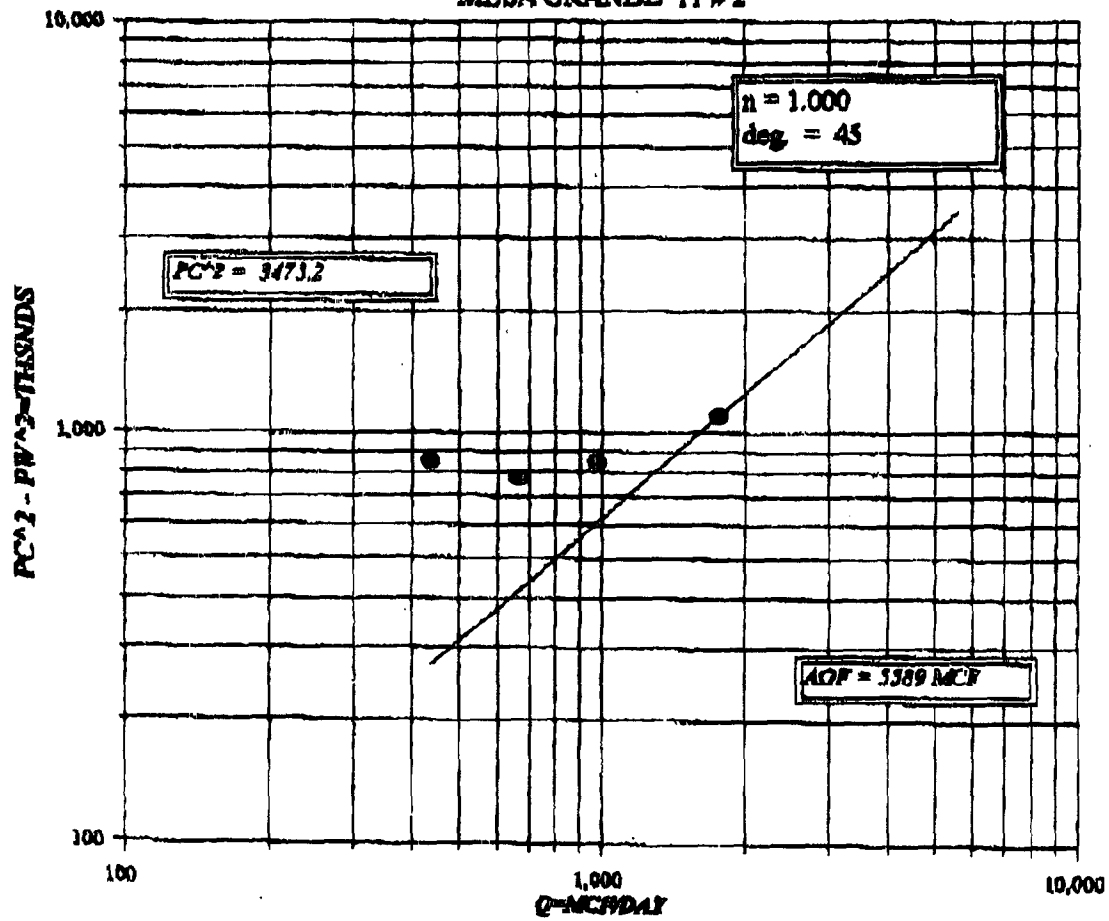
Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122

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 KAISER FRANCIS				Lease or Unit Name MESA GRANDE 11			
Type Test ☒ Inflow ☐ Annular ☐ Special				Test Date 9/7/06		Well No. 2	
Completion Date		Total Depth 11600		Plug Back TD 7700		Elevation	
Csg. Size 5 1/2		Wt. 17		d 4.892		Set At 11580	
Perforations: From: 6321 To: 6425		County BBBY					
Csg. Size 2 7/8		Wt. 6.3		d 2.441		Set At 6211	
Perforations: From: To:		Pool					
Type Well-Single Production G.O. or G.O. Multiple SINGLE				Packer Set At 6211		Formation BONE SPRINGS	
Producing thru TBC		Reservoir Temp. °F 137.2 @ 6321		Mean Annual Temp. °F 60		Conn. Press. P _c 13.2	
L 6211		H 6211		G _g 0.703		SALES	
G _{CO2} 1.74		G _{N2} 1.663		Prove N/A		Meter Run 4.026	
Taps FLO							
FLOW DATA				TUBING DATA			
CASING DATA				Duration of Flow			
No.	Probe Line Size	Orifice Size	Press. p.s.i.g.	Diff. h.	Temp. °F	Press. p.s.i.g.	Temp. °F
81						1851	PKR
1	4 X	1.375	50	26	88	1607	
2	4 X	1.375	80	42	89	1630	
3	4 X	1.375	85	83	91	1605	
4	4 X	1.875	150	46	86	1520	
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)	h _{sp}	Pressure P _w	Flow Temp. Santor Rt.	Gravity Factor F _g	Super Compress Factor F _{pv}	Rate of Flow Q, Mcfd
1	9.071	40.54	63.2	0.9741	1.193	1.009	436
2	9.071	62.57	93.2	0.9732	1.193	1.009	665
3	9.071	90.28	98.2	0.9715	1.193	1.009	979
4	17.26	86.64	163.2	0.9759	1.193	1.019	1,774
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 107.1 Mcf/bbl.		
1	0.09	548	1.41	0.983	A.P.1 Gravity of Liquid Hydrocarbons 40 Deg.		
2	0.14	549	1.41	0.983	Specific Gravity Separator Gas 0.703 XXXXXXXX		
3	0.14	551	1.42	0.983	Specific Gravity Flowing Fluid XXXXXX OMIX- .734		
4	0.24	546	1.4	0.964	Critical Pressure 663 P.S.I.A. 668 P.S.I.A.		
5					Critical Temperature 388 R. 401 R.		
F ₁	1884.2	P ₂	3475.2				
No.	P ₁ ²	P _w	P _w ²	P ₁ ² - P _w ²	(1) $P_0^2 = \frac{3.151}{P_1^2 - P_w^2}$ (2) $\left[\frac{P_0^2}{P_1^2 - P_w^2} \right]^n = 3.151$		
1	1620.6	2626.3	848.9				
2	1644.1	2703.1	772.1				
3	1620.2	2625.1	850.1				
4	1540.2	2372.3	1103				
5							
Absolute Open Flow 5.589				Mcf/d @ 15.025		Angle of Slope Q: 45	
Slope n: 1							
Remarks: CORR. To 1.663 % N2 & 1.740 % CO2 -- Well produced 1.50 bbls 40 API Gr. Oil							
Approved By Division:		Conducted By: FlowWell Testing & Wire Line		Calculated By: BM		Checked By: BM	

**KAISER FRANCIS
MESA GRANDE 11 #2**



Laboratory Services, Inc.
2608 West Mariand
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Pro Well Testing & Wireline
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE: Meter Run
IDENTIFICATION Mesa Grande 11 #2
COMPANY: Kaiser Francis
LEASE:
PLANT:

SAMPLE DATA: **DATE SAMPLED** 9/7/06 3:30pm
ANALYSIS DATE: 9/8/06
PRESSURE - PSIG 150
SAMPLE TEMP. °F 88
ATMOS. TEMP. °F 82

GAS (XX) LIQUID ()
SAMPLED BY: Greg Myers/Pro Well
ANALYSIS BY: Vickie Sullivan

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	1.683	
Carbon Dioxide (CO2)	1.740	
Methane (C1)	81.686	
Ethane (C2)	8.547	2.280
Propane (C3)	3.635	0.999
I-Butane (IC4)	0.486	0.152
N-Butane (NC4)	1.047	0.328
I-Pentane (IC5)	0.281	0.103
N-Pentane (NC5)	0.290	0.105
Hexane Plus (C6+)	<u>0.665</u>	<u>0.289</u>
	100.000	4.257

BTU/CU.FT. - DRY 1171
AT 14.650 DRY 1168
AT 14.650 WET 1147
AT 14.73 DRY 1174
AT 14.73 WET 1164

MOLECULAR WT. 20.4103

SPECIFIC GRAVITY -
CALCULATED 0.703
MEASURED



Laboratory Services, Inc.
 2808 W. Marland
 Hobbs, New Mexico 88240
 Telephone: (505) 397-3713

ASTM DISTILLATION

Pro Well Testing & Wireline
 P. O. Box 791
 Hobbs, New Mexico 88241

Sample Date: 9/7/06 @ 3:30pm
 Sampled By: Greg Myers/Pro well

Kaiser Francis
 Mesa Grande 11 #2

Percent Distilled

Temperature

IBP	105
5	144
10	183
20	226
30	267
40	326
50	418
60	501
70	587
80	600
EP	630

% Recovered = 87.0
 % Residue = 8.0
 % Loss = 5.0

API Gravity @ 60° F = 44.0

Vicki McDaniel