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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

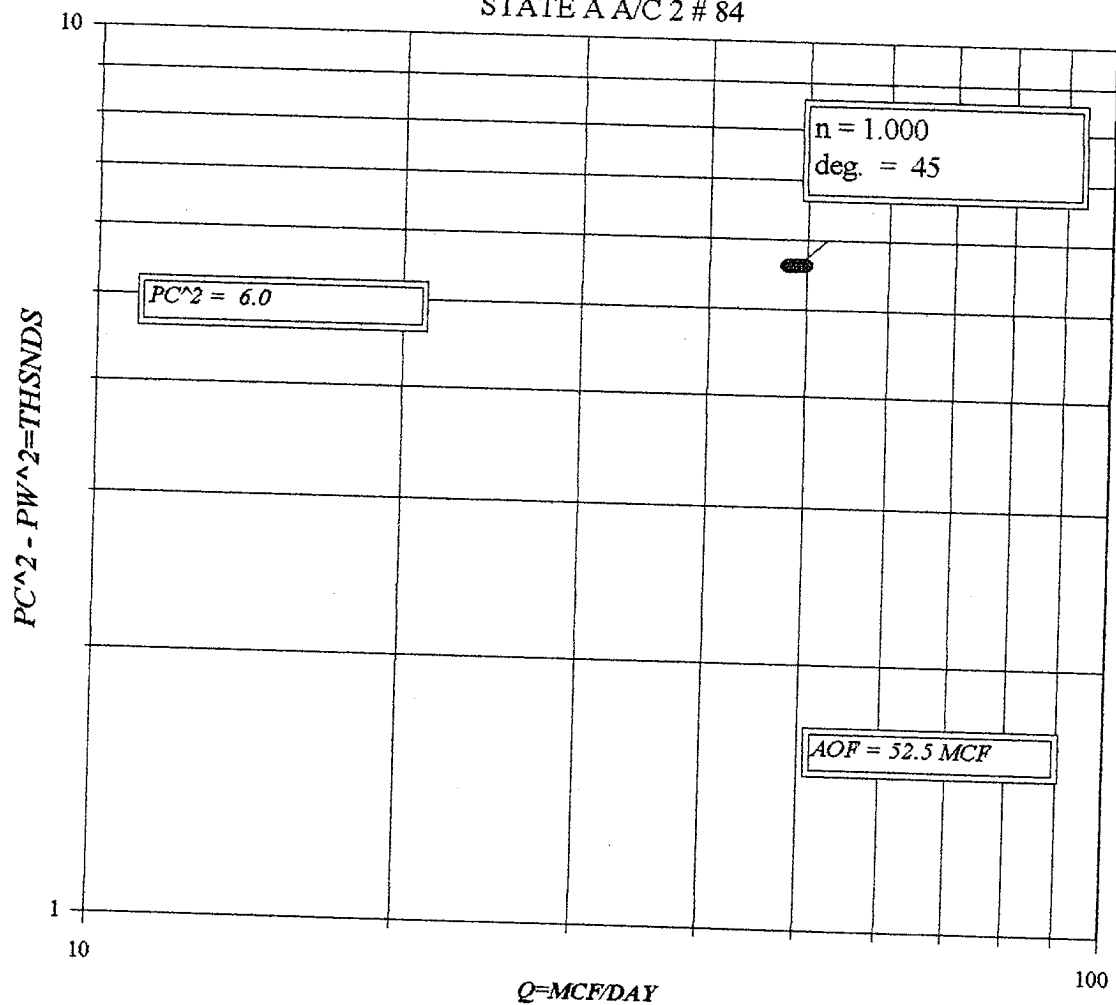
30-02536935

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MISSION RES.				Lease or Unit Name STATE A A/C2			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/29/2005		Well No. 84	
Completion Date 5/4/2005		Total Depth 1617 18 19 20 3650		Plug Back TD 3565		Elevation 3529	
Csg. Size 4 1/2		Set At 3.723		Perforations: From: 2833 To: 3567		Unit Ltr - Sec - TWP - Rge 11 20S 36E	
Tbg. Size 2 3/8		Set At 1.995		Perforations: From: To:		County LEA	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At N/A		Formation	
Producing Thru CSG		Reservoir Temp. 102.3		Mean Annual Temp. 60		Baro. Press.-P _a 13.2	
L 2833		H 2833		Gg 0.711		%CO ₂ 2	
				%N ₂ 4.687		%H ₂ S 0	
				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.	Press p.s.i.g.	Temp.
SI							
1	3.0 X 1.125		3.7	2.7	60		64
2							5
3							
4							
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	6.095		6.75	16.9	1	1.186	1.004
2							
3							
4							
5							
No.	P _r	Temp. R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A		
1	0.02	520	1.36	0.992	Mcf bbl.		
2					A.P. I. Gravity of Liquid Hydrocarbons N/A		
3					Specific Gravity Separator Gas 0.711		
4					Specific Gravity Flowing Fluid XXXXXX		
5					Critical Pressure 653		
	P _c 77.2	P _c 6			P.S.I.A. N/A		
					Critical Temperature 381		
					R. N/A		
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.059}{P_c^2 - P_w^2}$		
1		18.2	0.3	5.6	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.059$		
2							
3							
4							
5							
Absolute Open Flow					Mcf @ 15.025		
Angle of Slope (°):					45		
Slope, n:					1		
Remarks: * NO LIQUID MQDE DURING TEST.							
Approved By Division:		Conducted By:		Calculated By:		Checked By:	
		MISSION RES.		MERV BUECKER		MB	

MISSION RESOURCES

STATE A A/C 2 # 84



UNIT : 0 SECTION : 11 TOWNSHIP : 22
 L : 2833 H : 2833 L/H : 1 G/GMIX : 0.711
 %CO2 : 2 %N2 : 4.687 H2S : DATE : 6-29-05
 d : 3.434 Fr : 0.004413 GH : 2014.3 RANGE : 36

PC = 77.2 PC2 = 6.0 *
 Pt2 = 0.3 Pw = 18.2 *
 0.0 ERR *
 0.0 ERR *
 0.0 ERR *

VOL 1 : 49 PSIA 1 : 18.2 RESV.TEMP 102.3
 VOL 2 : PSIA 2 :
 VOL 3 : PSIA 3 : SHUT-IN PR= 77.2
 VOL 4 : PSIA 4 :

Pc2-Pw2= 5.6 Pw2 = 0.3 *
 ERR ERR *
 ERR ERR *
 ERR ERR *

PCR : 653
 TCR : 381

n = 1.000

Pc2/(Pc2-Pw2) = 1.059
 ERR *
 ERR *
 ERR *

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.049	0.049	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	562.3	562.3	562.3	562.3	562.3	562.3	562.3	562.3
4 T	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2
PR (est)	0.03		0.00		0.00		0.00	
5 Z(est)	0.972	0.972	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	533.0	533.0	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	3.779	3.779	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	1.152	1.152	ERR	ERR	ERR	ERR	ERR	ERR
9 l-e-S	0.132	0.132	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	18.2	18.2	0.0	0.0	0.0	0.0	0.0	0.0
11 Pt2 /1000	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
12 Fr	0.004413	0.004413	0.004413	0.004413	0.004413	0.004413	0.004413	0.0044132
13 Fc=FrTZ	2.352	2.352	ERR	ERR	ERR	ERR	ERR	ERR
14 FcQm	0.12	0.12	ERR	ERR	ERR	ERR	ERR	ERR
15 L/H(FcQm)	0.0	0.0	ERR	ERR	ERR	ERR	ERR	ERR
16 Fw	0.001755	0.001755	ERR	ERR	ERR	ERR	ERR	ERR
17 Pw2	0.3	0.3	ERR	ERR	ERR	ERR	ERR	ERR
18 Ps2	0.4	0.4	ERR	ERR	ERR	ERR	ERR	ERR
19 Ps	19.6	19.6	ERR	ERR	ERR	ERR	ERR	ERR
20 P	18.9	18.9	ERR	ERR	ERR	ERR	ERR	ERR
21 Pr	0.03	0.03	ERR	ERR	ERR	ERR	ERR	ERR
22 Tr	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
23 Z	0.972	0.972	ERR	ERR	ERR	ERR	ERR	ERR

[Pc2/Pc2-Pw2]n = 1.059
 ERR *
 ERR *
 ERR *

AOF= Q 0.052
 ERR *
 ERR *
 ERR *

FORM C122-D