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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

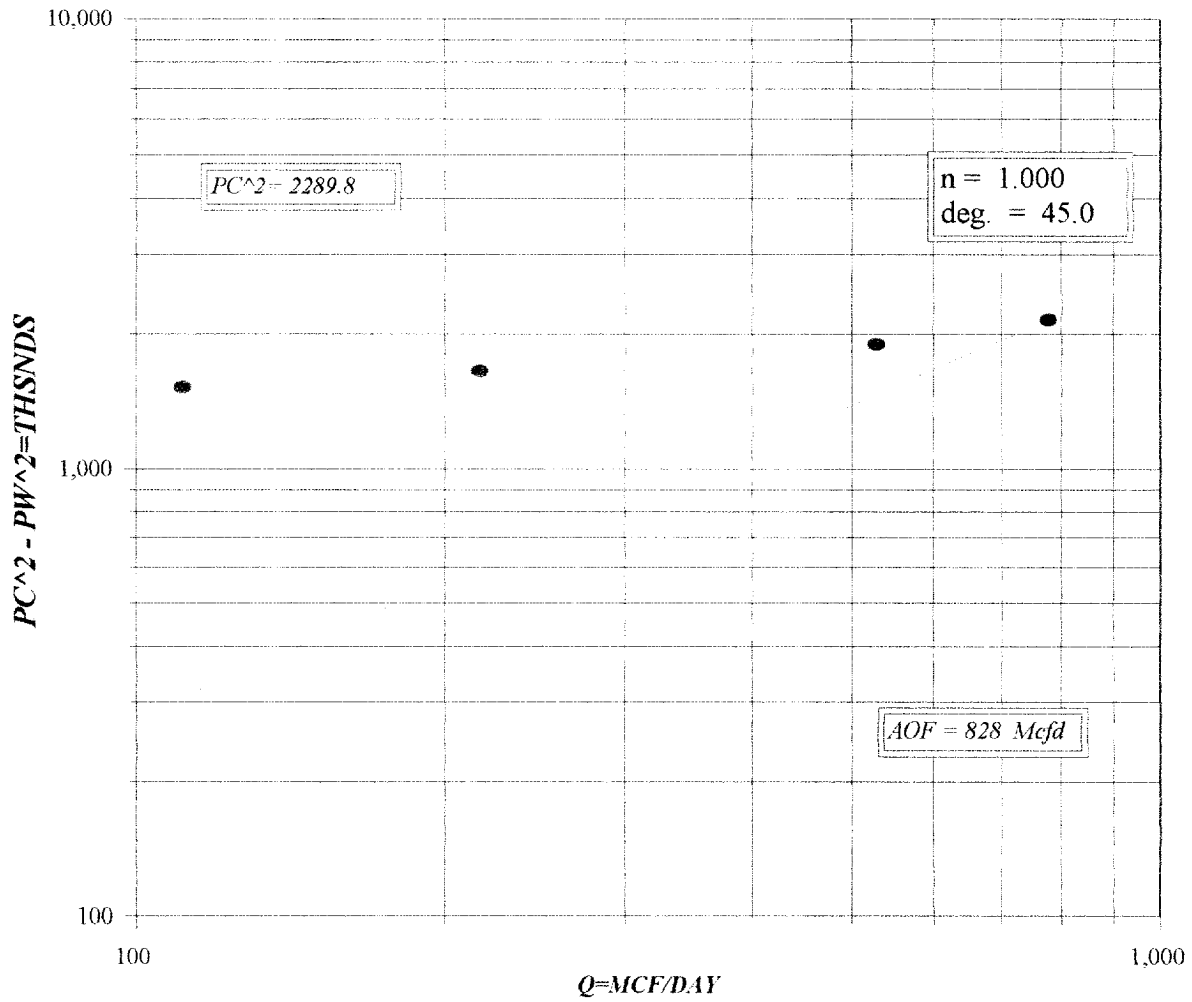
Form C-122
Revised October, 1999

C1517

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CONCHO RES. /				Lease or Unit Name SOUTHERN CROSS "22" STATE			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1/11/01		Well No. 1	
Completion Date 12-14-00		Total Depth 8700		Plug Back TD 6615		Elevation 3732'	
Csg. Size 5 1/2		Wt. 17		d 4.892		Set At 8700'	
Perforations: From: 6448 To: 6472				County EDDY			
Tbg. Size 2 3/8		Wt. 4.7		d 1.995		Set At 6360	
Perforations: From: To:				Pool Penasco Draw Perm Perm			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 6360		Formation	
Producing Thru TUBING		Reservoir Temp. °F 137.6		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
Connection SALES							
L 6360	H 6360	Gg 0.647	%CO ₂ 0.08	%N ₂ 1.123	%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 x Size	Press p.s.i.g.	Diff. h _w	Temp. °F	Press p.s.i.g.	Temp. °F
SI							
1	4.026 X 1.125		312	0.8	68	865	N/A
2	4.026 X 1.125		312	2.3	68	788	
3	4.026 X 1.125		312	14.4	63	612	
4	4.026 X 1.125		312	30	60	335	
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}	Rate of Flow Q, Mcfd
1							111
2		VOLUMES	FROM	TOTAL	FLOW	METER	217
3							529
4							779
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2	TOTAL	FLOW	METER		Specific Gravity Separator Gas 0.647 XXXXXXXX		
3					Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 673 P.S.I.A. P.S.I.A.		
5					Critical Temperature 368 R. R.		
P _c 1513.2		P _{c2} 2289.8					
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = 1.063$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.063$		
1		878.3	771.5	1518.3			
2		801.8	642.9	1646.8			
3		630.1	397.1	1892.7			
4		367.9	135.3	2154.4			
5							
Absolute Open Flow		828		Mcf/d @ 15.025		Angle of Slope (°): 45	
Slope n:		1					
Remarks: *NO LIQUID MADE DURING TEST.							
Approved By Division: RECEIVED OCD - ARTESIA		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

CONCHO RES.
SOUTHERN CROSS "22" ST. # 1



0 COMPANY : Concho Res. LEASE : SCOUT CROSS 22 SWELL NO. : 1
UNIT : SECTION : 22 TOWNSHIP : 18S
L : 6360 H : 6360 L/H : 1 G/GMIX : 0.647
%CO2 : 0.08 %N2 : 1.123 H2S : DATE : 1/11/01
d : 1.995 Fr : 0.018231 GH : 4114.9 RANGE : 24E

VOL 1 : 111 PSIA 1 : 878.2 RESV. TEMP 137.6
VOL 2 : 217 PSIA 2 : 801.2
VOL 3 : 529 PSIA 3 : 625.2 SHUT-IN PR= 1513.2
VOL 4 : 779 PSIA 4 : 348.2

PCR : 673
TCR : 368

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.111	0.111	0.217	0.217	0.529	0.529	0.779	0.779
2 TW	534	534	534	534	534	534	534	534
3 Ts	597.6	597.6	597.6	597.6	597.6	597.6	597.6	597.6
4 T	565.8	565.8	565.8	565.8	565.8	565.8	565.8	565.8
PR (est)	1.30		1.19		0.93		0.52	
5 Z(est)	0.864	0.856	0.873	0.865	0.894	0.888	0.930	0.925
6 TZ	489.0	484.2	494.1	489.6	506.1	502.3	525.9	523.1
7 GH/TZ	8.415	8.498	8.329	8.405	8.131	8.192	7.824	7.867
8 eS	1.371	1.375	1.367	1.371	1.357	1.360	1.341	1.343
9 l-e-S	0.271	0.273	0.268	0.270	0.263	0.265	0.254	0.255
10 Pt	878.2	878.2	801.2	801.2	625.2	625.2	348.2	348.2
11 Pt2 /1000	771.2	771.2	641.9	641.9	390.9	390.9	121.2	121.2
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13 Pc=PrTZ	8.915	8.828	9.007	8.926	9.226	9.158	9.589	9.537
14 FcQm	0.99	0.98	1.95	1.94	4.88	4.84	7.47	7.43
15 L/H(FcQm)	1.0	1.0	3.8	3.8	23.8	23.5	55.8	55.2
16 Fw	0.265016	0.262036	1.024871	1.014226	6.260572	6.207162	14.18680	14.099141
17 Pw2	771.5	771.5	642.9	642.9	397.1	397.1	135.4	135.3
18 Ps2	1057.7	1061.0	878.6	881.1	538.7	539.9	181.6	181.8
19 Ps	1028.5	1030.1	937.4	938.7	734.0	734.8	426.2	426.4
20 P	953.3	954.1	869.3	869.9	679.6	680.0	387.2	387.3
21 Pr	1.42	1.42	1.29	1.29	1.01	1.01	0.58	0.58
22 Tr	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
23 Z	0.856	0.856	0.865	0.865	0.888	0.888	0.925	0.925

Pc 13.2 Pc2 = 2289.8 *

Pt2 = 771.2 Pw = 878.3 *
641.9 801.8 *
390.9 630.1 *
121.2 367.9 *

Pc2-Pw2= 1518.3 Pw2 = 771.5 *
1646.8 642.9 *
1892.7 397.1 *
2154.4 135.3 *

n = 1.000 *

Pc2/(Pc2-Pw2) = 1.508 *
1.390 *
1.210 *
1.063 *

[Pc2/Pc2-Pw2]n = 1.508 *
1.390 *
1.210 *
1.063 *

AOF= Q 0.167 *
0.302 *
0.640 *
0.828 *

FORM C122-D *