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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

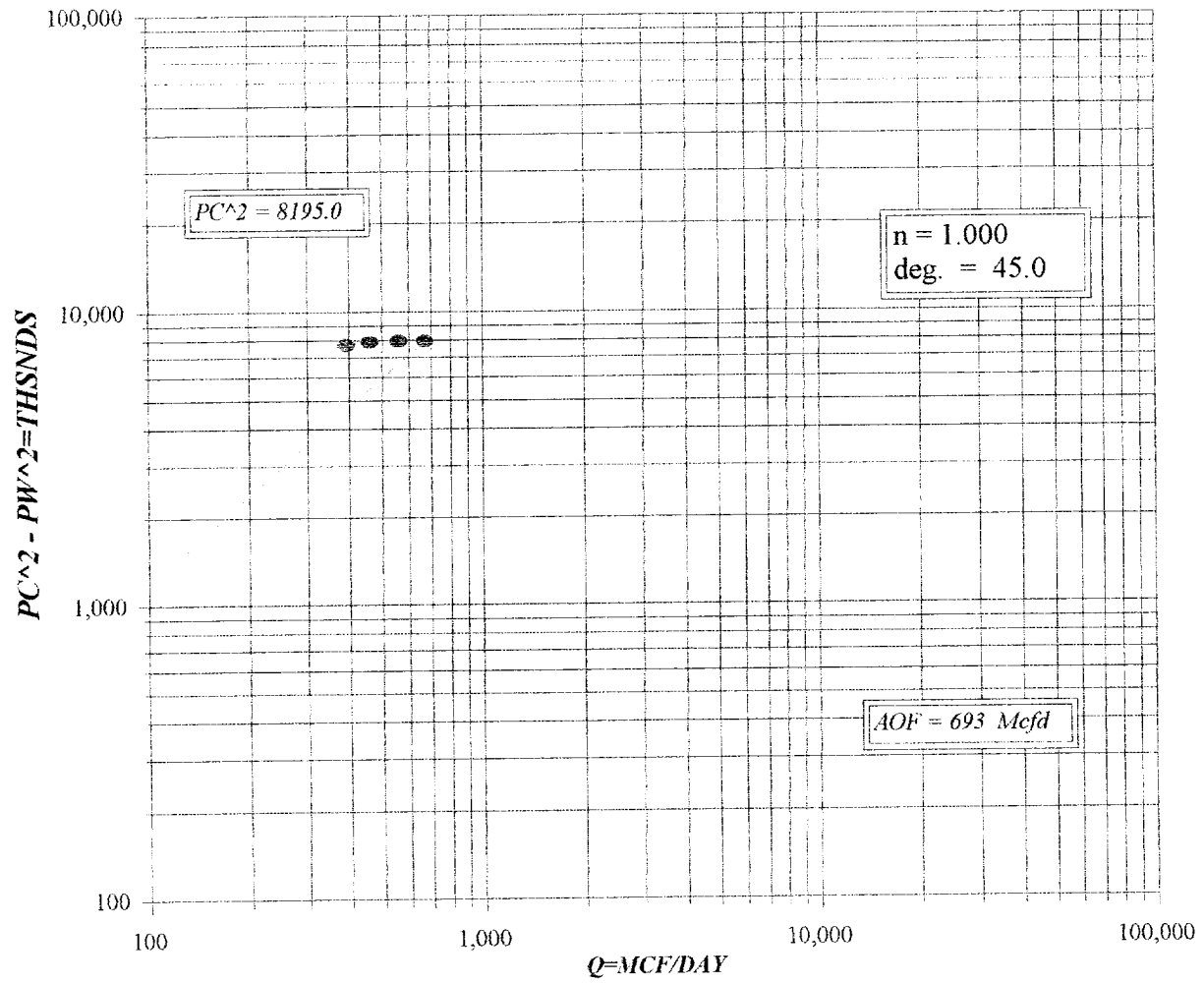
Form C-122
Revised October, 1999

CONFIDENTIAL

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator CONCHO RES INC.				Lease or Unit Name FILAREE "24"			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/16/01	Well No. 2
Completion Date 2/3/01		Total Depth 11362		Plug Back TD 11261		Elevation 3416	Unit Ltr - Sec - TWP - Rge 24 22S 25E
Csg. Size 5-1/2	Wt. 17	d 2.441	Set At 11362		Perforations: From: 11066 To: 11085		County EDDY
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11006		Perforations: From: To:		Pool Morrow
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 10987		Formation	
Producing Thru TUBING		Reservoir Temp. °F 188.2		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2	
L 10986		H 10986		Gg 0.598	%CO ₂ 0.973	%N ₂ 0.806	%H ₂ S N/A
Prover N/A		Meter Run 3.068		Taps FLG			
FLOW DATA				TUBING 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						2850	N/A
1	3.068 X	1.375	480	6.2	82	480	
2	3.068 X	1.375	476	4.4	89	500	
3	3.068 X	1.375	476	3	83	565	
4	3.068 X	1.375	476	2.2	84	680	
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	9.249		55.29	493.2	0.9795	1.293	1.039
2	9.249		46.39	489.2	0.9732	1.293	1.039
3	9.249		38.3	489.2	0.9796	1.293	1.039
4	9.249		32.8	489.2	0.9688	1.293	1.039
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.		
1	0.8	542	1.54	0.927	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2	0.81	549	336.5	0.925	Specific Gravity Separator Gas 0.598 XXXXXXXX		
3	0.8	543	1.55	0.928	Specific Gravity Flowing Fluid N/A XXXXXX		
4	0.8	544	1.55	0.928	Critical Pressure 675 P.S.I.A. P.S.I.A.		
5					Critical Temperature 350 R. R		
P _c 2862.7 P _{c2} 8195							
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{1.031}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.031$		
1	480.5	684.6	482.4	7712.6			
2	334.3	580.5	336.9	7858.1			
3	263.4	517	267.3	7927.8			
4	243.2	498.9	248.9	7946.2			
5							
Absolute Open Flow 693				Mcf @ 15.025	Angle of Slope (°)	45	Slope n: 1
Remarks: * CALCULATED FROM KNOWN SHUT IN BOTTOM HOLE PRESSURE. WELL MADE NO LIQUID DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	

CONCHO RES.
FILAREE "24" #2



UNIT : SECTION : TOWNSHIP :
 L : 10986 H : 10986 : 1 G/GMIX : 0.598
 %CO2 : 0.973 %N2 : 0.807 : DATE :
 d : 2.441 Pr : 0.010763 GH : 6569.6 RANGE :

VOL 1 : 394 PSIA 1 : 693.2 RESV.TEMP 183.9
 VOL 2 : 461 PSIA 2 : 578.2
 VOL 3 : 560 PSIA 3 : 513.2 SHUT-IN PR= 2862.7
 VOL 4 : 672 PSIA 4 : 493.2

PCR : 675
 TCR : 350

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.394	0.394	0.461	0.461	0.560	0.560	0.672	0.672
2 TW	534	534	534	534	534	534	534	534
3 Ts	643.9	643.9	643.9	643.9	643.9	643.9	643.9	643.9
4 T	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9
PR (est)	1.03		0.86		0.76		0.73	
5 Z(est)	0.911	0.904	0.921	0.915	0.927	0.921	0.929	0.923
6 TZ	536.7	532.3	542.5	538.7	545.9	542.4	546.9	543.5
7 GH/TZ	12.240	12.341	12.110	12.195	12.035	12.112	12.012	12.088
8 eS	1.583	1.589	1.575	1.580	1.570	1.575	1.569	1.573
9 l-e-S	0.368	0.370	0.365	0.367	0.363	0.365	0.363	0.364
10 Pt	693.2	693.2	578.2	578.2	513.2	513.2	493.2	493.2
11 Pt2 /1000	480.5	480.5	334.3	334.3	263.4	263.4	243.2	243.2
12 Pr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631
13 Pc=PrTZ	5.777	5.730	5.839	5.798	5.875	5.838	5.887	5.850
14 PcQM	2.28	2.26	2.69	2.67	3.29	3.27	3.96	3.93
15 L/H(PcQM)	5.2	5.1	7.2	7.1	10.8	10.7	15.6	15.5
16 Pw	1.906848	1.888007	2.644671	2.622197	3.931894	3.901477	5.675111	5.6319921
17 Pw2	482.4	482.4	337.0	336.9	267.3	267.3	248.9	248.9
18 Ps2	763.5	766.3	530.6	532.3	419.8	420.9	390.6	391.6
19 Ps	873.8	875.4	728.4	729.6	647.9	648.8	624.9	625.8
20 P	783.5	784.3	653.3	653.9	580.5	581.0	559.1	559.5
21 Pr	1.16	1.16	0.97	0.97	0.86	0.86	0.83	0.83
22 Tr	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
23 Z	0.904	0.904	0.915	0.915	0.921	0.921	0.923	0.923

Pt2 0.5 Pw = 694.6 *
 534.3 580.5 *
 263.4 517.0 *
 243.2 498.9 *
 *
 Pc2-Pw2= 7712.6 Pw2 = 482.4 *
 7858.1 336.9 *
 7927.8 267.3 *
 7946.2 248.9 *
 *
 n = 1.000 *
 *
 Pc2/(Pc2-Pw2) = 1.063 *
 1.043 *
 1.034 *
 1.031 *
 *
 [Pc2/Pc2-Pw2]n = 1.063 *
 1.043 *
 1.034 *
 1.031 *

AOF= Q 0.419 *
 0.481 *
 0.579 *
 0.693 *

FORM C122-D *



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: Fillaree 24 #2
COMPANY: Concho Resources
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED:
ANALYSIS DATE: 3/18/01
PRESSURE - PSIG 476
SAMPLE TEMP. °F 83
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Pro Well
ANALYSIS BY: Rolland Perry

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.807	
Carbon Dioxide (CO2)	0.978	
Methane (C1)	94.046	
Ethane (C2)	3.539	0.944
Propane (C3)	0.607	0.167
i-Butane (IC4)	0.090	0.029
N-Butane (NC4)	0.096	0.030
i-Pentane (IC5)	0.036	0.013
N-Pentane (NC5)	0.030	0.011
Hexane Plus (C6+)	0.276	0.120
	100.000	1.914

BTU/CU.FT. - DRY 1050
AT 14.650 DRY 1043
AT 14.650 WET 1028
AT 14.73 DRY 1052
AT 14.73 WET 1034

MOLECULAR WT. 17.8422

SPECIFIC GRAVITY -
CALCULATED 0.598
MEASURED