

dsf file
Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3/2/89		MAR 17 '89	
Company BTA OIL PRODUCERS ✓			Connection El Paso Natural Gas		O. C. D.
Pool Wildcat U/P Res. Crooked Creek			Formation Cisco		UNRESERVED OFFICE
Completion Date		Total Depth 9,975'	Plug Back TD 8,502'	Elevation 3,894 RKB	Farm or Lease Name 8710 JV-P Tank "B"
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At 9,975'	Perforations: From 8,036' To 8,120'	Well No. 1
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 7,843	Perforations: From To	Unit Sec. Twp. Rge. E 34 23S 24E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 7,843		County Eddy
Producing Thru Tbg		Reservoir Temp. °F 161° @ 8064	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	State New Mexico
L 7843	H 7843	G _g 0.589	% CO ₂ 0.62	% N ₂ 0.52	% H ₂ S 0.06
				Prover 4.026	Meter Run Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	4.026"	X	1.000"						Pkr.	60°	SI
1.	4.026"	X	1.000"	470	33.5	75	1960	80	"		120 min
2.	4.026"	X	1.000"	485	52	75	1930	82	"		60 min
3.	4.026"	X	1.000"	495	73	74	1887	82	"		60 min
4.	4.026"	X	1.000"	505	99	65	1842	82	"		60 min
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	4.753	127.23	483.2	0.9859	1.303	1.037	806
2	4.753	160.95	498.2	0.9859	1.303	1.038	1020
3	4.753	192.61	508.2	0.9868	1.303	1.039	1223
4	4.753	226.50	518.2	0.9952	1.303	1.043	1456
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>No Liquids</u> Mcf/bbl.
1.	0.72	535	1.51	.930	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	0.74	535	1.51	.928	Specific Gravity Separator Gas <u>0.589</u> XXXXXXXXXX
3.	0.76	534	1.51	.926	Specific Gravity Flowing Fluid <u>XXXXXX</u>
4.	0.77	525	1.48	.919	Critical Pressure <u>672</u> P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature <u>354</u> R _____ R

P_f 2378.2 P_f² 5655.8

NO.	P _f ²	P _s	P _s ²	P _f ² - P _s ²
1		2310.2	5355.5	319
2		2270.2	5153.8	502
3		2230.2	4973.8	682
4		2181.2	4757.6	898
5				

(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 6.3$ (2) $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 3.077$

ACF = Q $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 4480$

Absolute Open Flow <u>4480</u> Mcfd @ 15.025	Angle of Slope <u>58.6</u>	Slope, n <u>.6106</u>
Remarks: _____		
Approved By Commission:	Conducted By: BTA Oil Producers	Calculated By: T. J. Williams
Checked By:		