

RECEIVED
NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
JUN 4 1979

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual		B. C. C. ARTERIA OFFICE ☐ Special		Test Date 5/22/79	SPUD DATE: 4/23/79						
Company McClellan Oil Corporation			Connection Air								
Pool Undesignated PENITACK			Formation ABO								
Completion Date 5-14-79		Total Depth 4510		Plug Back TD 4500 4509	Unit I						
Csq. Size 1 1/2	WI	d	Set At 4510	Perforations: From 4448 To 4456	Farm or Lease Name J. J. Federal						
Thq. Size 2 3/8	WI	d	Set At 4400	Perforations: From	Well No. 1						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				U.S. GEOLOGICAL SURVEY ARTERIA, NEW MEXICO							
Producing Thru Tubing		Reservoir Temp. °F 118 @ 4452	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	County Chaves						
L 4452	F 1452	Gg .693	% CO ₂ 6.57	% N ₂ 4.09	% H ₂ S Prover						
FLOW DATA				6" Positive Choke							
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	Duration of Flow
1.	6 x 1/8			860		73	884		847		72 hrs.
2.	6 x 3/16			810		76	860		827		1 hr.
3.	6 x 7/32			750		76	810		780		1 hr.
4.	6 x 1/4			700		68	750		727		1 hr.
5.							700		674		1 hr.
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, Mcf				
1.	.2618		873.2	.9877	1.201	1.101	299				
2.	.6101		823.2	.9850	1.201	1.092	649				
3.	.8419		763.2	.9850	1.201	1.085	825				
4.	1.112		713.2	.9924	1.201	1.085	1026				
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Dry _____ Mcf/bbl.						
1.	1.31	533	1.37	.825	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.	1.23	535	1.38	.838	Specific Gravity Separator Gas .693 _____ XXXXXXXXXX						
3.	1.14	536	1.38	.849	Specific Gravity Flowing Fluid _____ XXXXXX						
4.	1.07	538	1.36	.850	Critical Pressure 669 _____ P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature 388 _____ R _____ R						
P _c 897.2		P _c 805.0									
NO.	B.H.P.	w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 2.781$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.988$						
1	986.2	871.6	759.7	45.3	AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 2.040$						
2	933.2	875.8	681.9	123.0							
3	869.2	770.2	593.2	211.8							
4	809.2	778.0	515.5	289.5							
5	1009.2	S.I.P.									
Absolute Open Flow 2,040 _____ Mcf @ 15.025					Angle of Slope 56 _____			Slope, n .672 _____			
Remarks: Bottom hole pressures obtained from John West Engineering.											
Approved By Commission _____ Conducted By: _____											