

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-22-75		MAY 5 1975	
Company W. W. Buchanan				Connection None				D. C. C.	
Pool Cemetery <i>monow</i>				Formation Morrow				Unit ANTENNA, OFFICE	
Completion Date 4-22-75		Total Depth 9640		Plug Back TD 9479		Elevation 3597' <i>KB</i>		Farm or Lease Name Osage Com.	
Csg. Size 4 1/2	Wt. 11.6	d 4"	Set At 9640	Perforations: From 9364 To 9474		Well No. 1			
Tbg. Size 2 7/8	Wt. 4.7	d 1.995	Set At 9227	Perforations: From Open To End		Unit J	Sec. 18	Twp. 20-S	Rye. 25-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 9227		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 168 @ 9420		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State New Mexico	
L 9474	H 9364	G _g .690	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 3	Taps 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.	
SI							2750	58	Pkr	
1.	3.068		1.00	510	7	60	2550	66	"	90 min.
2.	"		"	510	29	60	2300	72		60 min.
3.	"		"	520	54	70	1980	72		60 min.
4.	"		"	620	94	70	1325	74		60 min.
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.789	60.5177	523.2	1.000	1.204	1.068	373
2	4.789	123.1779	523.2	1.000	"	1.068	758
3	"	169.6844	533.2	.9905	"	1.061	1028
4	"	243.9688	633.2	.9905	"	1.075	1498
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ None _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ None _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

$P_c = 2763.2$ $P_w^2 = 7635$				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.306$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2424$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1861$
1		2563.2	6570	1065	
2		2313.2	5351	2284	
3		1993.2	3973	3662	
4		1338.2	1791	5844	
5					

Absolute Open Flow _____ 1861 _____ Mcfd @ 15.025		Angle of Slope θ _____	Slope, n _____ .813
Remarks: _____			
Approved By Commission:		Conducted By: C. Allen Dorsey	Calculated By: C. Allen Dorsey Checked By: <i>ADK</i>