

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 10/21/72		DEC 7 1972	
Company Adobe Oil Company				Connection None				M. S. C. ARTESIA, OFFICE	
Pool Rock Tank <i>Upper Morrow</i>				Formation Upper Morrow				Unit	
Completion Date 10/17/72		Total Depth 10,315		Plug Back TD 10,231		Elevation 3902 KB		Farm or Lease Name Smith Federal <i>Com</i>	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 10,315	Perforations: From 9874 To 9898		Well No. 1			
Tbg. Size 2 7/8	Wt. 8.7#	d 2.259	Set At 10,045	Perforations: From Open end To		Unit G	Sec. 14	Twp. 23S	Rge. 24E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Multiple						Packer Set At 10,045		County Eddy	
Producing Thru Casing		Reservoir Temp. °F 175 @ 10,196		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 9874	H 9874	G _g .587	% CO ₂ .0110	% N ₂ .0029	% H ₂ S .09 Gr/CCF	Prover	Meter Run X	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.	Temp. °F	
SI							Choke		2730		54
1.	3	x	1.375	675	6	62	8/64		2521	60	1
2.	3	x	1.375	690	28	72	12/64		2147	60	1
3.	3	x	1.375	695	53	77	16/64		1605	60	1
4.	3	x	1.375	700	60	91	20/64		1207	60	1
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	9.249	64.26	688.2	.9981	1.305	1.056	817
2	9.249	140.32	703.2	.9887	1.305	1.053	1763
3	9.249	193.74	708.2	.9840	1.305	1.052	2421
4	9.249	254.76	713.2	.9715	1.305	1.047	3128
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Dry Gas _____ Mcf/bbl.
1	1.02	522	1.49	.897	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	1.05	532	1.52	.902	Specific Gravity Separator Gas .587 XXXXXXXXXX
3	1.05	537	1.53	.904	Specific Gravity Flowing Fluid XXXXX
4	1.06	551	1.57	.912	Critical Pressure 672 P.S.I.A. P.S.I.A.
5					Critical Temperature 350 R R

P _c 2743.2	P _c ² 7525	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.247$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.191$
NO.	P _t ²	P _w	P _w ²
1		2534.2	6422
2		2160.2	4666
3		1618.2	2619
4		1220.2	1489
5			

Absolute Open Flow 3725 Mcfd @ 15.025		Angle of Slope @ _____	Slope, n .792
Remarks: Friction negligible - see C-122-E for rates 1 and 4.			
Approved By Commission:	Conducted By: <i>ME T</i>	Calculated By: <i>Wonna Hales</i>	Checked By: <i>I W W</i>