

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

Form C-122
Revised 9-1-65

well file

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-19-73		RECEIVED	
Company ADOBE OIL COMPANY				Connection TO AIR				MAY 5 1973	
Pool ROCK TANK Lower Morrow				Formation LOWER MORROW				Unit O. C. C.	
Completion Date 4-10-73		Total Depth 10,300		Plug Back TD 10,250		Elevation 3874 GR.		Form or Lease Name ARTESIA, OFFICE SMITH FEDERAL	
Csg. Size 5 1/2	Wt. 17	d	Set At 10,300	Perforations: From 10,185 To 10,225		Well No. 2			
Thq. Size 2 1/2	Wt. 6.5	d	Set At 10,091	Perforations: From OPEN To ENDED		Unit Sec. Twp. Rge. P 11 23S 24E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. MULTIPLE						Packer Set At 10,091		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 175 @ 10,200		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 10091	H 10091	Gg .5834	% CO ₂ .76	% N ₂ .75	% H ₂ S TRACE	Prover	Meter Run 6"	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							1619.0		CHOKE		72.0
1.	6"	X	1.50"	510.0	2.0	84	1380.0	73	8/64		1.0
2.	6"	X	1.50"	560.0	9.0	82	1035.0	74	12/64		1.0
3.	6"	X	1.50"	520.0	18.0	80	823.0	74	16/64		1.0
4.	6"	X	1.50"	580.0	22.0	78	686.0	72	22/64		1.0
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	10.70	32.34	523.3	0.9777	1.310	1.036	459
2	10.70	71.83	573.2	0.9795	1.310	1.039	1025
3	10.70	97.97	533.2	0.9813	1.310	1.038	1399
4	10.70	114.24	593.2	0.9831	1.310	1.042	1640
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.	.78	544	1.55	.931	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2.	.85	542	1.55	.926	Specific Gravity Separator Gas	.5834	XXXXXXXXXX
3.	.79	540	1.54	.928	Specific Gravity Flowing Fluid	XXXXXX	
4.	.88	538	1.54	.921	Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	350	R

NO.	P _i ²	P _w ²	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1		1747.2	3052.7	1278.7	1.2584	1.2584
2		1324.2	1753.5	2577.9		
3		1072.2	1149.6	3181.8		
4		943.2	889.6	3441.8		
5						

Absolute Open Flow 2064 Mcfd @ 15.025				Angle of Slope 45.0°		Slope, n 1.0 LIMITED	
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE AT 10,200'							
Approved By Commission:		Conducted By: D.T.		Calculated By: R.L.W.		Checked By: J.W.W.	