

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 11-29-71		DEC 3 1971	
Company Midwest Oil Corporation				Connection None			O. C. C. ARTESIA, OFFICE	
Pool Wildcat				Formation Morrow			Unit	
Completion Date 11-28-71		Total Depth 12,100		Plug Back TD 11,100		Elevation		Farm or Lease Name So. Empire Deep Ut.
Csg. Size 5 1/2"	Wt. 20#	d 4.778	Set At 11,162	Perforations: From 10,716' To 10,784'			Well No. 1	
Tbg. Size 2 7/8"	Wt. 6.4#	d 2.441	Set At 10,653	Perforations: From To			Unit Sec. Twp. Rge. F 6 18-S 29-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas Dist.					Packer Set At 10,623'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 160 @ 10,750'		Mean Annual Temp. °F 60 F		Baro. Press. - P _a 13.2		State New Mexico
L 10,750	H 10,750	G _g .641	% CO ₂ NIL	% N ₂ .37	% H ₂ S NIL	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							2888	68	Packer		
1.	6"	X	3"	690	4"	108	2809	85	"		1 hr.
2.	6"	X	3"	660	13.5"	93	2731	72	"		1 hr.
3.	6"	X	3"	720	26	79	2593	70	"		1 hr.
4.	6"	X	3"	765	45	75	2586	70	"		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	44.51	53.02	703.2	.9568	1.269	1.067	3,009.
2.	44.51	95.3035	673.2	.9697	"	1.054	5,415.
3.	44.51	138.0299	733.2	.9822	"	1.066	8,033.
4.	44.51	187.0861	778.2	.9859	"	1.070	10,973.
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.0495	568	1.5392	.897	30.	56	.641	X X X X X X X X	670	369
2.	1.0047	553	1.4986	.801				X X X X X		
3.	1.0943	539	1.4607	.880						
4.	1.1614	535	1.4498	.873						
5.										

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.		4022.2	16,176	438		
2.		3953.2	15,626	988		
3.		3866.2	14,946	1668		
4.		3754.2	14,093	2521		
5.						

Absolute Open Flow 45,000 Mcfd @ 15.025				Angle of Slope θ 57°	Slope, n .658
Remarks:					
Approved By Commission: Conducted By: D. T. Stogner Calculated By: D. T. Stogner Checked By: 11-29-71					