

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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Copy 65 F
E-12-2
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-10-73		SEP 26 1973	
Company Midwest Oil Corp.,				Connection Amoco Transwestern		O. C. C.		
Pool So. Empire				Formation Morrow		Unit ARTESIA, OFFICE		
Completion Date 1-17-73		Total Depth 10925		Plug Back TD 10880		Elevation 3651 ft.		Form or Lease Name So. Empire Deep Unit
Crq. Size 5 1/2	Wt. 17	d	Set At 10923	Perforations: From 10817 To 830		Well No. 3		
Trq. Size 2 3/8	Wt. 4.9	d	Set At 10551	Perforations: From To		Unit Soc. Twp. Rge. N 31 17 29		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10551		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 158 @ 10500		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 10824	H 10824	Gg .650	% CO ₂ .40	% N ₂ .52	% H ₂ S Nil	Prover	Meter Run 3	Taps Flg.

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							2790			
1.	3		2	950	16.0	70	1935	64	Pkr.	
2.	"		"	970	22.5	68	1850	64	"	
3.	"		"	980	31.0	68	1775	68	"	
4.	"		"	980	51	68	1498	69	"	
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	21.32	124.1418	963.2	.9905		1.101	3579
2	"	148.7347	983.2	.9924		1.101	4296
3	"	175.4685	993.2	.9924		1.101	5069
4	"	225.0626	993.2	.9924		1.101	6501
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mat/obl.
1					38,235	
2					57.2	
3					.650	
4						
5						

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	64	1948.2	3795	4063		
2	65	1863.2	3472	4386		
3	75	1788.2	3198	4660		
4	228	1560.2	2434	5424		
5						

Absolute Open Flow		9,400		Mold @ 15.025		Angle of Slope @ 45		Slope, n 1.000		
Remarks:										
Approved By Commission:			Conducted By: C. Allen Dorsey			Calculated By: C. R Allen Dorsey			Checked By:	