

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

Form O-122
Issued 9-1-65
122 file

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Type Test: ☒ Initial ☐ Annual ☐ Special		Test Date: 2-26-77	
Company: CITIES SERVICE OIL COMPANY		To Air	
Pool: <i>Porton Flat man...</i>		U.S. GEOLOGICAL SURVEY	
UN-DESIGNATED		ARTESIA, NEW MEXICO	
Completion Date: 2-26-77	Total Depth: 11,690'	Blow Count: 11,650'	Elevation: 3183 GR.
Csg. Size: 5 1/2"	WT 17#	Set At: 11,690'	Perforations: From 11,381' To 11,424'
Tub. Size: 2 7/8"	WT 6.5#	Set At: 11,369'	Perforations: From OPEN ENDED
Type Well - Single - Broadhead - G.G. or G.O. Multiple		Packer Set At: 11,364'	Well No. 3
Producing Thru: TUBING		Reservoir Temp. °F: 189	Mean Annual Temp. °F: 60
L: 11369		H: 11369	G: 0.580
% CO ₂ : 1.00%		% N ₂ : 0.40%	% H ₂ S: -0-
Prover: 6"		Meter Run: 6"	Temp: FLANGE
FLOW DATA		TUBING DATA	CASING DATA
NO.	Prover Line Size	X	Orifice Size
1.	6"	X	1.25"
2.	6"	X	1.25"
3.	6"	X	1.25"
4.	6"	X	1.25"
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1.	7.405	73.76	333.2
2.	7.405	105.62	413.2
3.	7.405	114.00	433.2
4.			
5.			
NO.	F _r	Temp. °R	T _r
1.	0.49	560	1.60
2.	0.61	548	1.57
3.	0.64	562	1.61
4.			
5.			
Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
Specific Gravity Separator Gas: 0.580			
Specific Gravity Flowing Fluid: XXXXX			
Critical Pressure: 676 P.S.I.A.			
Critical Temperature: 349 R			
$(1) \frac{P_f^2}{P_f^2 - P_s^2} = 1.1811$ $(2) \left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^n = 1.1811$			
NO.	P _f	P _s	P _f ² - P _s ²
1.	5585	2521.2	6336
2.	3180	2180.2	4753
3.	1424	1875.2	3516
4.			
5.			
Absolute Open Flow: 1291			
Angle of Slope: 45.0°			
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 11,344 FEET.			
*UNABLE TO OBTAIN 4TH RATE TEST INFORMATION.			
1,000 LIMITED SLOPE DRAWN THROUGH HIGH RATE OF FLOW.			
Approved By: Commission	Conducted By: D.A.T.	Calculated By: R.L.W.	Checked By: J.W.W.