

NEW MEXICO OIL CONSERVATION
MULTIPLE AND ONE POINT BACK PRESSURE

MISSION
ST FOR GAS WELL

Copy 6 SF
Form C-122
Revised 9-1-65
1-13-72

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-18-75		MAR 17 1975	
Company Apex Company				Connection El Paso Natural Gas Company				O. C. C. ARTESIA, OFFICE	
Pool Wildcat 3-10-74 Olefin				Formation Morrow				Unit K	
Completion Date 1-22-75		Total Depth 12,350		Pore Back TO 12325		Elevation 3084.791		Farm or Lease Name Henry Grande	
Cog. Size 4 1/2	wt. 16.5	d 12,350	Set At 12,350	Perforations: From 11,784 To 12,084		Well No. 1			
Teg. Size 2 3/8	wt. 4.7	d 11,723	Set At 11,723	Perforations: From open To end		Unit Soc. Twp. Rys. K 26 22S 27E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,723		County Eddy			
Producing Tbr Tbr.		Reservoir Temp. °F 1 91 ^a 11,723		Mean Annual Temp. °F 13.2		Baro. Press. - P _a 13.2		State New Mexico	
L 11,723	H 11,723	Gg .574	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4	Taps 1/2"	

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											
1.	4	x	1.00	520	4	62	3300	61			72 Hr.
2.	4	x	1.00	520	9.8	74	2650	63			1 hr.
3.	4	x	1.00	463	14.4	70	2258	63			1 hr.
4.	4	x	1.00	425	30.3	62	1945	60			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	4.753	46.18	533.2	.9981	1.320	1.042	301
2	4.753	72.29	533.2	.9868	1.320	1.038	465
3	4.753	82.81	476.2	.9905	1.320	1.034	532
4	4.753	115.23	438.2	.9981	1.320	1.034	746
5							

NO.	P _r	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	.79	522	1.50	.921			.574	X X X X X X X X	672	346
2	.79	534	1.54	.928				X X X X X		
3	.70	530	1.53	.935						
4	.65	522	1.50	.935						
5										

P _c 3708.2 P _c ² 13750.7				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3895$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3895$	
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	ACF = Q	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$	
1		3312.5	10792.7	2958.0			
2		2665.2	7193.3	6647.4			
3		2273.3	5167.9	8582.8			
4		1963.2	3854.2	9896.5			
5							

Absolute Open Flow 1.037 Mcfd @ 15.025		Angle of Slope @ 45		Slope, n 1.00	
Remarks: Well made 1 Bbl. water during test. Point alignment too flat. A slope of 45 was drawn through high rate of flow.					
Approved by Commission		Conducted By: Reggie Reston		Calculated By: Reggie Reston	
				Checked By:	