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Form 0-122
Revised 9-1-65

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

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-2-75		JUN 2 1975	
Company David Fasken				Connection Transwestern Pipe Line Co.		O. C. C. ARTESIA, OFFICE	
Pool Undesignated Penn.				Formation Morrow		Unit 320 acres	
Completion Date 1-28-75		Total Depth 9072		Plug Back TD 8920		Elevation 3307 KB	
Farm or Lease Name Higgins - Cahoon		Well No. 1		Unit 0		Sec. Twp. Rge. 2 18S 26E	
Csg. Size 5 1/2	Wt. 15.50	d 4.950	Set At 9012	Perforations: From 8796 To 8835			
Tbg. Size 2 7/8	Wt. 6.50	d 2.441	Set At 8700	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At 8700'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 150 @ 8770'		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
State New Mexico							
L 8816	H 8816	G _g 0.600	% CO ₂	% N ₂	% H ₂ S	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	23.5 hours						2609		Pkr		
1.	4"	x	1.875	335	2.0	126	2562	70	"		60 min.
2.	4"	x	1.875	335	10.0	119	2507	74	"		60 min.
3.	4"	x	1.875	335	25.0	101	2406	79	"		90 min.
4.	4"	x	1.875	335	95.0	78	2062	79	"		90 min.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	17.26	26.39	348.2	0.9420	1.291	1.020	565.0
2	17.26	59.01	348.2	0.9477	1.291	1.021	1272.3
3	17.26	93.30	348.2	0.9628	1.291	1.023	2047.7
4	17.26	181.88	348.2	0.9831	1.291	1.028	4095.8
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	0.52	586	1.64	0.962	A.P.I. Gravity of Liquid Hydrocarbons	Dry Gas	Deq.
2.	0.52	579	1.62	0.960	Specific Gravity Separator Gas	0.600	X X X X X X X X
3.	0.52	561	1.57	0.955	Specific Gravity Flowing Fluid	X X X X X	
4.	0.52	538	1.50	0.947	Critical Pressure	671 P.S.I.A.	P.S.I.A.
5.					Critical Temperature	358 R	R

NO.	P _t ²	P _s	P _s ²	P _f ² - P _s 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	3312.2	10971	407			
2	3241.2	10505	873			
3	3131.2	9804	1574			
4	2735.2	7481	3897			
5						

Absolute Open Flow		9400	Mcf/d @ 15.025	Angle of Slope @	52° 11'	Slope, n	0.776
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Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 10190N 0-4000 psi	
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Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By:
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