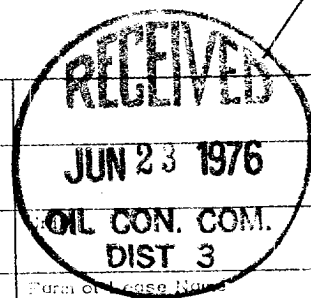


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65



Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 5-24-76	
Company Dugan Production				Connection None	
Pool Wildcat				Formation Picture Cliffs	
Completion Date 5-7-76		Total Depth 3034'		Plug Back TD 2850'	
				Elevation 6268' GL	
Csg. Size 2.875	Wt. 6.5	d 2.441	Set At 3037'	Perforations: From 2030' To 2039'	
Tub. Size 1.660	Wt. 2.40	d 1.380	Set At 2037'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Gas--Single				Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F @		Baro. Press. - P _a 12.0	
L		H	G _g .658	% CO ₂ 0.08	% N ₂ 4.00
				% H ₂ S acetate	Prover 2"
					Meter Run Taps

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	10 day SIP						574		574		10 day
1.	2" X 1/8"			440		60°	440		538		2 hr.
2.	2" X 3/16"			396		69°	396		500		2 hr.
3.	2" X 1/4"			317		73°	317		468		2 hr.
4.	2" X 5/16"			249		67°	249		437		2 hr.
5.	2" X 5/16"			239		59°	239		407		12 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.2648		452	1.000	1.233	1.044	154
2	0.6082		408	.9915	1.233	1.039	315
3	1.087		329	.9877	1.233	1.030	449
4	1.672		261	.9933	1.233	1.022	546
5	1.672		251	1.0110	1.233	1.024	536

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.68	520	1.42	.917	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.62	529	1.44	.927	Specific Gravity Separator Gas _____ XXXXXXXXXX
3.	.50	533	1.45	.942	Specific Gravity Flowing Fluid _____ XXXXXX
4.	.39	527	1.44	.953	Critical Pressure _____ 670 - 7 P.S.I.A. 663 P.S.I.A.
5.	.38	519	1.41	.953	Critical Temperature _____ 378 - 11 R 367 R

P _c 586 P _c ² 343596				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		550	302500	40896
2		512	262144	81252
3		480	230400	112996
4		449	201601	141795
5		419	175561	167835

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____

Absolute Open Flow _____ 1.100 _____ Mcfd @ 15.025	Angle of Slope θ _____ 45°	Slope, n _____ 1.0
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Remarks: Flow rates were calculated using N.E.O.C.C. factors. Well produced light to medium mist of water throughout test. Vented 411 MCF while testing.

Approved By Commission:	Conducted By: Fred S. Hamrick	Calculated By: B.J. Broughton	Checked By:
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