

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 8-2-77	
Company Dugan Production				Connection New Completion	
Pool Basin				Formation Dakota	
Completion Date 7-14-77		Total Depth 6575		Plug Back TD 6516	
				Elevation 6040	
Csg. Size 4.500		Wt. 10.5		Set At 6572	
Perforations: From 6330 To 6490				Well No. #1	
Tbg. Size 1.660		Wt. 2.3		Set At 6469	
Perforations: From To				Unit Sec. Twp. Rge. SE/NW 14 30 14	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At None	
Gas - Single				County San Juan	
Producing thru Tubing		Reservoir Temp. °F a		Mean Annual Temp. °F 12.0	
				State New Mexico	
L		H		Gg	
				.68	
				% CO ₂	
				% N ₂	
				% H ₂ S	
				Prover 2"	
				Meter Run	
				Ups	

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							1993		1995		SIP
1.	2" X 3/32"			1958		62°	1958		1975		2 hrs
2.	2" X 1/8"			1927		68°	1927		1952		2 hrs
3.	2" X 3/16"			1847		71°	1847		1889		2 hrs
4.	2" X 5/16"			1310		66°	1310		1531		2 hrs
5.	2" X 5/16"			873		71°	873		1107		12 hrs

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	0.1410		1970	.9981	1.213	1.190	400
2	0.2648		1939	.9924	1.213	1.183	731
3	0.6082		1859	.9896	1.213	1.178	1599
4	1.672		1322	.9943	1.213	1.135	3026
5	1.672		885	.9896	1.213	1.100	1954

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 2007 P _c ² 4028049				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		1987	3948169	79880
2		1964	3857296	120753
3		1901	3613801	414248
4		1543	2380849	1647200
5		1119	1252161	2775888

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

AOF = 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 2750 Mcfd @ 15.625		Angle of Slope @ 40°		Slope, n .84	
Remarks:					

Approved By Commission:	Conducted By: Fred Hamrick	Calculated By: Fred Hamrick	Checked By:
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