

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

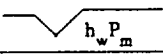
OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Marshall Pipe & Supply						Lease or Unit Name Stolterberg					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10/02/92		Well No. 1			
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Ltr. - Sec. - TWP - Rge. F 26 2 29			
Csg. Size 5 1/2	Wt. d	Set At		Perforations: From: 2920 To: 2930				County Roosevelt			
Tbg. Size 2 3/8	Wt. 4.7	Set At 1.995		Perforations: From: 2877 To: 2877				Pool Wild Cat			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 2877		Formation San Andres			
Producing Thru TBG		Reservoir Temp. °F 103@2925		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Vented			
L *2925	H 2925	Gg .699	% CO ₂ 2.99	% N ₂ 11.26	% H ₂ S	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							1021		PKR		72HRS
1.	2	X	3/32	923		77	923		"		1HR
2.	2	X	1/8	660		80	660		"		1HR
3.	2	X	3/16	515		79	515		"		1HR
4.	2	X	1/4	340		78	340		"		1HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.1410		936.2	.9840	1.196	1.075	167
2.	.2648		673.2	.9813	1.196	1.055	221
3.	.6082		528.2	.9822	1.196	1.043	394
4.	1.087		353.2	.9831	1.196	1.028	464
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.	1.42	537	1.51	.866	A.P.I. Gravity of Liquid Hydrocarbons	DRY	Deg.
2.	1.02	540	1.52	.899	Specific Gravity Separator Gas	.699	XXXXXXXXXX
3.	.80	539	1.51	.920	Specific Gravity Flowing Fluid	XXXXXX	
4.	.53	538	1.51	.946	Critical Pressure ** 658	P.S.I.A.	P.S.I.A.
5.					Critical Temperature ** 355	R	R

*** P_c 1045.2 p_c 1092.4

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	***	945.6	894.2	158.2
2.	***	850.3	723.0	369.4
3.	***	699.2	488.9	603.5
4.	***	539.4	291.0	801.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.363$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.258$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .584$

Absolute Open Flow 584 Mcfd @ 15.025	Angle of Slope Θ 53.5	Slope, n .741
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Remarks: WELL MADE 1/2 BBL SALT H2O DURING TEST. * BHP INSTRUMENT SET @ THIS DEPTH.
** CORRECTED TO 2.99% CO2 & 11.26% N2. *** CALCULATED FROM KNOWN BHP'S.

Approved By Division	Conducted By: JOHN WEST ENG. CO.	Calculated By: BM	Checked By: BM
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