

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

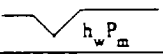
OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator OGS Operating, Inc.						Lease or Unit Name Bilberry					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8/14/92		Well No. 3			
Completion Date		Total Depth 4574'		Plug Back TD 4570'		Elevation		Unit Ltr. - Sec. - TWP - Rge. 11 8 37			
Csg. Size 4 1/2	Wt. d	Set At 4574		Perforations: From: 4415 To: 4510				County Roosevelt			
Tbg. Size 2 3/8	Wt. d	Set At 4414		Perforations: From: Open To: End				Pool Bluitt			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At None		Formation San Andres			
Producing Thru Tbg		Reservoir Temp. °F 118 @ 4414		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Vented			
L 4414	H 4414	Gg .746	% CO ₂ 5.93	% N ₂ 6.64	% 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							1227		1226		48 Hr.
1.	2	X	3/16	1035	84		1035		1045		1 Hr.
2.	2	X	1/4	756	86		756		775		1 Hr.
3.											
4.	WELL LOGGED OFF ON 3RD RATE										
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.6082		1048.2	.9777	1.158	1.110	801
2.	1.087		769.2	.9759	1.158	1.080	1021
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.	1.54	544	1.43	.812	A.P. I Gravity of Liquid Hydrocarbons	Deg.
2.	1.13	546	1.44	.858	Specific Gravity Separator Gas	.746
3.					Specific Gravity Flowing Fluid	XXXXXX
4.					Critical Pressure	*677 P.S.I.A.
5.					Critical Temperature	*379 R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		1058.2	1119.8	418.3
2.		788.2	621.3	916.8
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.677$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.918$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.536$

Absolute Open Flow	1,536	Mcf/d @ 15.025	Ang. e of Slope Θ	63.5	Slope, n	.500
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Remarks: *=Corrected to 5.93% CO₂ and 6.64% N₂. Well produced 1/2 bbl N₂O during test. Well logged off on third rate.

Approved By Division
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT SUPERVISOR

Conducted By:
John West Engineering

Calculated By:
BM

Checked By:
BM

AUG 26 '92