

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

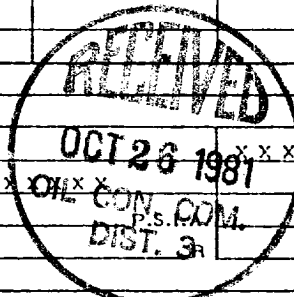
Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-13-81	
Company Beartooth Oil and Gas Co.				Connection Southwest Gas Corporation		
Pool Blanco				Formation Mesaverde		Unit
Completion Date 10-6-81		Total Depth 8260		Plug Back TD 8075		Elevation 7191 GL
Crg. Size 4.500		Wt. 11.5		d 4.000		Set At 8258
Perforations: From 5818		To 6035		Well No. 1E		
Tng. Size 2.375		Wt. 4.7		d 1.995		Set At 6167
Perforations: From Open		To Ended		Unit Sec. Twp. Rge. M 7 25 3		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Facker Set At None	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a 12 psi .est
State New Mexico						
L	H	Gg .650	% CO ₂	% H ₂	% H ₂ S	Prover
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	Duration of Flow
1	7 days						1323		1361		
2	2 inch	.750	367				367	60°	699	60°	3 hours
3											
4											
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	12.3650		379	1.0000	.9608	1.039	4678
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons <td>Deq. </td>	Deq.
2					Specific Gravity Separator Gas <td>X X X X X X X X</td>	X X X X X X X X
3					Specific Gravity Flowing Fluid <td>X OIL X X X X X X X X</td>	X OIL X X X X X X X X
4					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5					Critical Temperature <td>R</td>	R



NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1		711	505521	1379608	1.3664	1.26382
2						
3						
4						
5						

$AOI = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 5912$

Absolute Open Flow	5912	Mcf @ 15.025	Angle of Slope θ	Slope, n .75
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Remarks: Heavy show of oil throughout test, and a trace of water the last 1 hour of test. Well flared for 3 hours.

Approved by Commission	Conducted by: Joe Elledge	Calculated by: Joe Elledge	Checked by: Mr. Don Roberts
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