

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 11-24-80	
Company SUPRON ENERGY CORPORATION				Connection Gas Company of New Mexico		
Pool Blanco				Formation Mesaverde		Unit
Completion Date 11-10-80		Total Depth 7482		Plug Back TD 7450		Elevation 6582
Casing Size 4.500		ID 10.50		Set At 4.052		Well No. 10-E
Tubing Size No Tubing		ID Set At		Perforations: From 4707 To 5382		Unit Sec. Twp. Rge. N 26 26-N 5-W
Type Well - Single - Fractured - G.G. or G.O. Multiple Dual - Gas - Gas					Packer Set At 7160	
Producing Thru Casing		Reservoir Temp. °F 8		Mean Annual Temp. °F		County Rio Arriba
L 4697		H		Gg 0.650		State New Mexico
% CO ₂		% N 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	
SI	2"		3/4"								7 days
1.									1162		3 hours
2.									164	58°	
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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		176	0.9962	0.9608	1.016	2116
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _r	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 1174	P _c ² 1,378,276	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0295$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0220$
NO.	P _i ²	P _w ²	P _c ² - P _w ²
1			39,434
2			1,338,842
3			
4			
5			

Absolute Open Flow 2163 Mcfd @ 15.025		Angle of Slope 0.75	
Remarks:			
Approved by Commission: _____ Conducted By: Doyal Parret Calculated By: Kenneth E. Roddy Checked By: _____			

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 12-1-80	
Company SUPRON ENERGY CORPORATION				Connection Gas Company of New Mexico		
Pool Basin				Formation Dakota		Unit
Completion Date 11-10-80		Total Depth 7482		Plug Back TD 7450		Elevation 6582
Log. Size 4.500	Wt. 10.50	d 4.052	Set At 7482	Perforations: From 7194 To 7376		Well No. 10-E
Trg. Size 2.375	Wt. 4.70	d 1.995	Set At 7160	Perforations: No Perforations		Unit Sec. Twp. Rge. N 26 26N 5W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas - Gas				Packer Set At 7160		County Rio Arriba
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12		State New Mexico
L 7150	H	Gg 0.700	% CO ₂	% N 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	
SI	2"		3/4"				2217				14 days
1.							205	58°			3 hours
2.											
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		217	1.0019	0.9258	1.026	2554
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	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

$P_c = 2229$ $P_c^2 = 4,968,441$				
NO.	P_i^2	P_w^2	$P_c^2 - P_w^2$	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0470$
1		222,955	4,745,486	
2.				
3.				
4.				
5.				

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2643$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0350$
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Absolute Open Flow	2643	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	0.75
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Remarks:			

Approved By Commission:	Conducted By: Leroy Tafoya	Calculated By: Kenneth E. Roddy	Checked By:
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