

NEW M CO 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 1/14/78	
Company Petroleum Development Corp.			Connection None		
Pool Lusk Morrow			Formation Morrow		Unit F
Completion Date 1/14/78		Total Depth 13,000'	Plug Back TD 12,955	Elevation 3676 KB	Farm or Lease Name Sun McKay Federal
Csg. Size 4 1/2"	Wt. 11.6#	d 4,000	Set At 13,000'	Perforations: From 12661 To 12935	
Thg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 12624	Perforations: From 12621 To 12624	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 12615	Well No. 1
Producing Thru Tubing		Reservoir Temp. °F 164° @ 12984	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	State New Mexico
L 12624	H 12624	G _g 0.659	% CO ₂ 0	% N ₂ 0	% H ₂ S ---
Prover ---			Meter Run 3"	Taps flange	

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							4000				14
1.	3" x 2"			300	30	84	1175				2
2.	3" x 2"			300	26	82	1425				1
3.	3" x 2"			300	18	80	1955				1
4.	3" x 2"			290	10	70	2440				1
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	21.32	96.933	313.2	0.9777	1.232	1.029	2561
2	21.32	90.240	313.2	0.9795	1.232	1.029	2389
3	21.32	75.084	313.2	0.9813	1.232	1.029	1991
4	21.32	55.064	303.2	0.9905	1.232	1.030	1476
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	0.47	544	1.44	0.945	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	0.47	542	1.43	0.944	Specific Gravity Separator Gas 0.659 X X X X X X X X
3.	0.47	540	1.43	0.944	Specific Gravity Flowing Fluid X X X X X
4.	0.45	530	1.40	0.943	Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.1448$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.1448$
1	2013.2	4.05	27.97			
2	2362.2	5.58	26.44			
3	3131.2	9.80	22.22			
4	3792.2	14.38	17.63			
5						

Absolute Open Flow 2932 Mcfd @ 15.025		Angle of Slope θ _____	Slope, n 1
Remarks: _____			
Approved By Commission: _____	Conducted By: Charles W. Sanders	Calculated By: J. C. Johnson	Checked By: CWS

RECEIVED

JAN 20 1978

CIL CONSUL GENL COMM.
FORBS, N. M.