

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12/08/75				
Company Petroleum Development Corp.				Connection None					
Pool East Lusk				Formation Morrow				Unit	
Completion Date 11/12/75		Total Depth 12,950'		Plug Back TD 12,907'		Elevation		Farm or Lease Name Superior "C" State	
Csg. Size 5-1/2	Wt. 17#	d 4.892"	Set At 12,950'	Perforations: 12,569-75; 84-92; From 12,600-04; 721-29			Well No. 1		
Tbg. Size 2-3/8	Wt. 4.7#	d 1.995"	Set At 12,527'	Perforations: From Open ended To			Unit Sec. Twp. Rge. K 16 19S 32E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 12,522		County Lea			
Producing Thru Tubing		Reservoir Temp. °F 194 @ 12,770		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 12725	H 12725	Gg 0.7085	% CO ₂ 0.81	% N ₂ 0.45	% H ₂ S ----	Prover ----	Meter Run 4"	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							3990.0		2040	Choke	15-5/6
1.	4"		2.50"	325	29.0	65	2465.0	55	2060	15/64	1 hr.
2.	4"		2.50	325	20.0	60	2750.0	58	2090	13/64	1 hr.
3.	4"		2.50	320	12.5	60	3080.0	60	2090	11/64	1 hr.
4.	4"		2.50	305	7.0	63	3410.0	60	2090	9/64	1 hr.
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	3204	99.03	338.2	0.9952	1.188	1.040	3974
2	3204	82.24	338.2	1.0000	1.188	1.041	3320
3	3204	64.54	333.2	1.0000	1.188	1.041	2605
4	3204	47.20	318.2	0.9971	1.188	1.038	1894
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.50	525	1.34	.924	22.397	
2	0.50	520	1.33	.923	53° @ 60° F	
3	0.50	520	1.33	.923	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
4	0.47	523	1.34	.929	Specific Gravity Separator Gas .7085	XXXXXXX
5					Specific Gravity Flowing Fluid XXXXX	
					Critical Pressure 672	P.S.I.A.
					Critical Temperature 391	R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.9888$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.00$
1	6141	4005.2	16042	16223		
2	7635	4296.2	18457	13808		
3	9568	4652.2	21643	10622		
4	11718	4911.2	24120	8145		
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Absolute Open Flow		7.903	Mcf/d @ 15.025	Angle of Slope	45°	Slope, n	1.00
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Remarks: BHP by Amerada gauge at 12,770'	
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Approved By Commission:	Conducted By: J. C. Johnson	Calculated By: J. C. Johnson	Checked By: Charles W. Sanders
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