

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 May 2, 1980	
Company Adobe Oil & Gas Corporation		Connection None	
Pool Undesignated		Formation Morrow Morrow	
Completion Date 5/2/80		Total Depth 13062'	Plug Back TD 13021'
		Elevation 4183' GL	Farm or Lease Name Gray 35
Gas Size 5 1/2"	Wt. 17# 20#	d 4.892 4.778	Set At 13062
Flow Size 2 3/8"	Wt. 5.30	d 1.845	Set At 12327
Perforations: 12382 - 12390 From To		Well No. 1	
Perforations: Open Ended From To		Unit Sec. Twp. Rge. N 35 14s 33e	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single			
Packer Set At 12311'		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 180 @ 12347'	Mean Annual Temp. °F 60°
Para. Press. - P _g 13.2		State New Mexico	
L 12386'	H -	G _g 0.751	% CO ₂ 7.873
		% N ₂ 1.912	% H ₂ S 0.000
Prover		Meter Run 3 X 1.250	Temp F

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. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							3820		PACKER		68.25
1.	3	8/64	1.250	470	10	110	2785				1 hr.
2.	3	10/64	1.250	475	15	75	2240				1 hr.
3.	3	12/64	1.250	475	19	72	1810				1 hr.
4.	3	14/64	1.250	475	23	72	1420				1 hr.
5.	3	18/64	1.250	475	30	82	805				1 hr.

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	7.577	69.51	483.2	.9551	1.154	1.039	603.14
2	7.577	85.57	488.2	.9859	1.154	1.051	775.28
3	7.577	96.31	488.2	.9887	1.154	1.052	875.90
4	7.577	105.96	488.2	.9887	1.154	1.052	963.66
5	7.577	121.02	488.2	.9795	1.154	1.052	1090.39

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.69	570	1.47	0.926	19.347	54 @ 60	0.7506	X X X X X X X X	698	388
2	0.70	535	1.38	0.906						
3	0.70	532	1.37	0.903						
4	0.70	532	1.37	0.903						
5	0.70	542	1.37	0.903						

P _r 5724.2	P _w 32766.5	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.214$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.133$
1	4566.2	20850.2	11916.3
2	3692.2	13632.3	19134.2
3	3071.2	9432.3	23334.2
4	2404.2	5780.2	26986.3
5	1483.2	2199.9	30566.6

Absolute Open Flow	1092	Mcf/d @ 15.025	Angle of Slope	57° 9'	Slope, n	0.646
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Remarks: * BOTTOM HOLE PRESSURE @ (-8203) 12386' USED FOR PRESSURE CALCULATIONS

Approved by Jerry Sexton Dist. L. Supv.	Conducted By: JARREL SERVICES, INC.	Calculated By: Joe A. Coleman	Checked By: Joe A. Coleman
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