

-J-015-30908

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 5/17/00	
Company OXY USA, INC.				Connection 4-14-00			
Pool Logan Draw Morrow				Formation MORROW		Unit	
Completion Date 4-14-00		Total Depth 9800		Plug Back TD		Elevation	
Farm or Lease Name ROSENKAVLIER							
Csg. Size 4.5	Wt. 11.6	d 4.0	Set At	Perforations: From 9539 To 9549		Well No. 1	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 9484	Perforations: From To		Unit Sec. Twp. Rge. D 23 17 27	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 9472	
Producing Thru TUBING		Reservoir Temp. °F 162 @ 9489		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
County EDDY		State NM					
L 9484	H 9484	G _g 0.6398	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 2.068
						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							701	82			115
1.	2.068	1.000		584	1.2	82	651	82			1
2.	2.068	1.000		584	4.3	83	628	82			1
3.	2.068	1.000		588	6.6	81	600	83			1
4.	2.068	1.000		581	7.1	79	585	86			1
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.	4.946	26.76	596.7	0.9795	1.2502	1.0522	171
2.	4.946	50.66	596.7	0.9789	1.2502	1.0520	323
3.	4.946	63.14	601.3	0.9809	1.2502	1.0532	403
4.	4.946	65.17	594.2	0.9825	1.2502	1.0533	416
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.	
1.	0.89	542	1.46	0.903	NONE		
2.	0.89	543	1.46	0.904	A.P.I. Gravity of Liquid Hydrocarbons	NONE Deg.	
3.	0.90	541	1.46	0.901	Specific Gravity Separator Gas	0.6398	XXXXXXXXXX
4.	0.89	539	1.45	0.901	Specific Gravity Flowing Fluid	XXXX	0.6398
5.					Critical Pressure	671 P.S.I.A.	671 P.S.I.A.
					Critical Temperature	371 R	371 R

P _c 823.3	P _c ² 678	
NO.	P _r ²	P _w ²
1.	821	674
2.	799	639
3.	785	616
4.	781	610
5.		

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 10.0119$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1318$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.1642$$

Absolute Open Flow	1318 Mcfd @ 15.025	Angle of Slope θ	63.4	Slope, n	0.500
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Remarks: Bottomhole pressures recorded using electronic pressure gauge #P-87.

Approved By Commission:	Conducted By: ARC Pressure Data, Inc.	Calculated By: Rod Dodson	Checked By:
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GAS WELL BACK-PRESSURE CURVE

OXY USA, INC.
ROSENKAVLIER FEDERAL #1
EDDY COUNTY, NM
5/17/00

