

RECEIVED

disc
File

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 20811
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78
NOV 20 1989

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL D.

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-30-89		ARTESIA, OFFICE	
Company OXY USA				Connection EL PASO PIPELINE			
Pool <i>N. Burton Flat Well</i>				Formation WOLFCAMP		Unit	
Completion Date 9-23-89		Total Depth 11275.		Plug Back TD 10428.		Elevation 0.	
Casing Size 5.500		Well ID 17.0		Set At 4.892		Set At 11275.	
Perforations: From 8947. To 9299.		Perforations: From 0. To 0.		Well No. 1		Farm or Lease Name GOVERNMENT AN	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple SINGLE - GAS		Packer Set At 7607.		County EDDY		State NM	
Producing Thru TUBING		Reservoir Temp. °F 165.0 9123.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
L 9123.		H 9123.		G _g .701		% CO ₂ .07	
% N ₂ .10		% H ₂ S .00		Prover .0		Meter Run 4.0	
Taps FLANGE		FLOW DATA		TUBING DATA		BHP DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.
SI							Temp. °F
1.	4.03 X 1.250			491.	14.4	79.	3072.
2.	4.03 X 1.250			491.	25.0	80.	60.
3.	4.03 X 1.250			491.	46.2	82.	4782.
4.	4.03 X 1.250			491.	64.0	82.	165.
5.							168.0
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, Mcld
1	7.47	85.32	504.1	.9822	1.1944	1.0544	788.
2	7.47	112.26	504.1	.9813	1.1944	1.0540	1036.
3	7.47	152.67	504.1	.9795	1.1944	1.0532	1405.
4	7.47	179.62	504.1	.9795	1.1944	1.0532	1653.
5							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 6.5 Mcf/bbl.		
1	.76	539.	1.38	.900	A.P.I. Gravity of Liquid Hydrocarbons 42.1 Deg.		
2	.76	540.	1.39	.900	Specific Gravity Separator Gas .701		
3	.76	542.	1.39	.901	Specific Gravity Flowing Fluid X X X X X		
4	.76	542.	1.39	.901	Critical Pressure 668. P.S.I.A.		
5					Critical Temperature 390. R		
P _c 3171.8 P _c ² 10060.					(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.1649$		
NO.	P _r	P _w	P _r ²	P _r ² - P _w ²	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.1649$		
1	13443.	2145.	4602.	5458.	Part ID-2		
2	10538.	1777.	3159.	6901.	12-29-89		
3	8136.	1448.	2098.	7962.	comp Well		
4	6376.	1193.	1424.	8636.	AOF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1926.$		
5							
Absolute Open Flow 1926.				Mcf @ 15.025		Angle of Slope 45.0	
Slope, n 1.000				Remarks: CHOKE SIZE: 1ST RATE 10/64 2ND RATE 12/64 3RD RATE 14/64 4TH RATE 16/64			
Approved By Division				Conducted By: C & W WIRELINE, INC.		Calculated By: MATT LEE	
				Checked By:			