

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 2-17-66			
Company The British-American Oil Prod. Co.				Connection None				
Pool Oso				Formation Morrow		Unit North Wilson Deep		
Completion Date 2-17-66		Total Depth 11,888 KB		Plug Back To 11,530 KB		Farm or Lease Name North Wilson Deep Unit		
Csg. Size 4-1/2	Wt. 11.6	d 4.000	Set At 11,628	Perforations: From 11,336 To 11,478 KB		Well No. 2		
Tbg. Size 2-3/8	Wt. 4.6	d 1.995	Set At 11,264	Perforations: From - - To - -		Unit Sec. Twp. Rge. F 5 21-8 35-E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Facker Set At 11,264 KB		County Lea		
Producing Thru Tubing		Reservoir Temp. °F 168 @ 11,407		Mean Annual Temp. °F 13.2		State New Mexico		
L 11,253	H 11,253	Gg .593	% CO ₂ - - -	% N ₂ - - -	% 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.	
SI							5400	50	Pkr	- -
1.	3 x 2			875	8.5	75	4625	71	- -	- -
2.	3 x 2			895	20.0	60	4025	72	- -	- -
3.	3 x 2			905	36.0	62	2950	72	- -	- -
4.	3 x 2			980	48.0	70	2000	68	- -	- -
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1	21.90	86.8	888.2	.9859	1.299	1.070	2604
2	21.90	134.8	908.2	1.0000	1.299	1.081	4145
3	21.90	181.8	918.2	.9981	1.299	1.083	5590
4	21.90	218.4	993.2	.9905	1.299	1.078	6634
5							

NO.	P _t	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
					43.3 Mcf/bbl.	39.1 Deg.	0.593	X X X X X X X X	672 P.S.I.A.	354 R
1	7.93	580	1.52	.985						
2	7.00	580	1.52	.924						
3	5.34	580	1.52	.828						
4	3.88	578	1.51	.774						
5										

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
	5413.2	29302.7				1.2276	1.1788
1	21512.9	21805.8	7496.9				
2	16307.1	16979.3	12323.4				
3	8780.6	9849.9	19452.8				
4	4053.0	5432.9	23869.8				
5							

Absolute Open Flow 7820 Mcfd @ 15.025		Angle of Slope θ	Slope, n .804
Remarks:			
Approved By Commission: _____ Conducted By: R. W. Jones Calculated By: E. L. Daniel Checked By: _____			