

NEW XICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
HOBBS OFFICE O. C. C.

Form C-122
Revised 9-1-65

APR 27 10 42 AM '66
3-28-66

Type Test ☐ Initial ☐ Annual ☒ Special											
Company The British-American Oil Producing Company						Contractor Phillips Petroleum Co. Warren Petroleum Co.					
Pool Osudo (Morrow)						Formation Morrow					
Completion Date 2-7-66			Total Depth 11,888			Long Back S 11,530			Elevation 3647 GL		
Farm or Lease Name North Wilson Deep Unit						Unit North Wilson Deep					
Csg. Size 4-1/2"	Wt. 11.6	d 4.000	Set At 11,628	Perforations: From 11,320 To 11,478		Well No. 2					
Tbg. Size 2-3/8"	Wt. 4.6	d 1.995	Set At 11,226	Perforations: From - - - To - - -		Unit F	Sec. 5	Twp. 21-S	Rge. 35-E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,264			County Lea		
Producing Thru Tubing			Reservoir Temp. °F 168 @ 11,359			Mean Annual Temp. °F 13.2			State New Mexico		
L 11,253	H 11,253	Gg .605	% CO ₂ .24	% N ₂ .39	% H ₂ S .5/100 df	Prover x			Meter Run 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							5070		Pkr.		
1.	4"		2.25	600.6	6.8	68	4960	66	"		65
2.	4"		2.25	644.0	27.0	64	4520	64	"		80
3.	4"		2.25	688.9	54.8	64	3990	62	"		70
4.	4"		2.25	722.5	86.5	60	3412	78	"		60
5.											

RATE OF FLOW CALCULATIONS							
NO.	L-10 Chart v/g _s = 1.0 ¹ (24 Hour)	$\sqrt{h_w P_m}$ L-10 Chart	Pressure From L-10	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	81,074	20.150	600.6	0.9924	1.286	1.052	2193
2.	81,074	41.730	644.0	0.9962	1.286	1.056	4577
3.	81,074	61.420	688.9	0.9962	1.286	1.061	6768
4.	81,074	79.050	722.5	1.0000	1.286	1.066	8786
5.							

NO.	P _f	Temp. °R	T _f	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.	.90	528	1.47	.904	13.76 Bbl/MMCF or 72.7	46.1	.605	.796	671	358
2.	.96	524	1.46	.896						
3.	1.03	524	1.46	.889						
4.	1.08	520	1.45	.881						
5.										

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²	ACF = Q
1.	5070	25,705 × 10³	25,705 × 10³	9.94	2.462	16,254
2.	24,602	4971	24,711	3.971		
3.	20,430	4662	21,734	7.404		
4.	15,920	4278	18,301	10.440		
5.	11,642	3907	15,265			

Absolute Open Flow	16,254	Mcf/d @ 15.025	Angle of Slope θ	43°	Slope, n	.682
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Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		<i>William E. Moore</i>	