

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 5-10-90		RETEST	
Company SHELL WESTERN E&P INC.				Connection ENRON		1-PT TEST	
Pool N. EUNICE B-T-D OIL & GAS TUBB (PRORATED GAS)				Formation TUBB		Unit NORTHEAST DRINKARD	
Completion Date 2-20-90		Total Depth 6629'		Plug Back To 6432'		Elevation 3418' GR	
Casing Size 5-1/2"		Wt. 17#		Set At 6597'		Perforations: From 6083 To 6411	
Thg. Size 2-3/8"		Wt. 4.7		Set At 6383'		Perforations: To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple				Packer Set At		Well No. 706	
Producing Thru TBG		Reservoir Temp. °F 100 @ 6247		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 6247		H ---		G _g .794		% CO ₂ .05	
				% N ₂ 1.75		% H ₂ S ---	
				Prover BARTON		Meter Run 2.067	
						Taps FLG	

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	27 HRS						251	66°			24 HRS
1.	2.067 X 0.500			75	17	65°	76	65°			
2.											
3.											
4.											
5.											

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 _{sp}	Rate of Flow Q, Mcfd
1	1.189	38.72	88.2	.9952	1.122	1.017	52.3
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	52.3 MCF/12 BBLS Mcf/bbl.
1	.13	525	1.27	.966	A.P.I. Gravity of Liquid Hydrocarbon	42 @ 92° = 39.3 Degr.
2.					Specific Gravity Separator Gas	.794
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure	667 P.S.I.A.
5.					Critical Temperature	414 °R

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.131$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.131$ AOF = Q $\left[\frac{h^2}{P_c^2 - P_w^2} \right]^n = 59.2$
1	7.957		8.063	61.7	
2.					
3.					
4.					

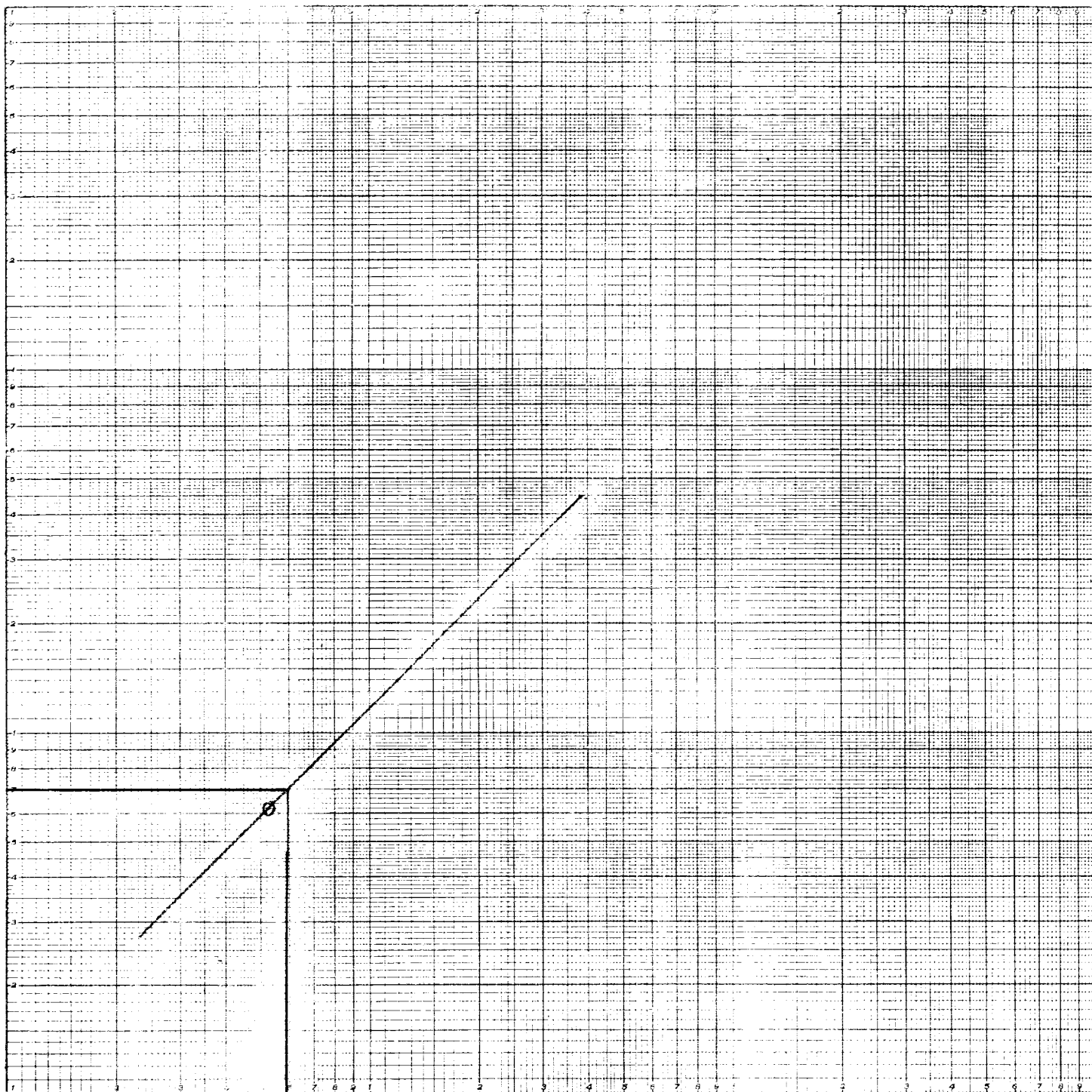
Absolute Open Flow		59.2 Mcfd @ 15.025	Angle of Slope °	45	Slope, n	1.000
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Remarks: FOR RECORD ONLY			
Approved By Commission	Conducted By D. E. Ashmune	Calculated By D. E. Ashmune	Checked By

GAS WELL
BACK PRESSURE TEST

County LEWIS Field BRINKLEY
Operator Solo Western LP Inc.
Lease NEDU Well No. 706
Volume 59.2 MCF/24 hr.
Date 5-10-92

THOUSANDS
 $P_f^2 - P_s^2$
↑
↓



← Q in MCF per DAY →

