

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 1990 2-16 to 2-19		RECOMP AS GAS WELL	
Company SHELL WESTERN E&P INC.				Connection TEXACO		1-PT TEST	
Pool NORTH EUNICE BLINEBRY-TUBB- DRINKARD OIL & GAS				Formation BLINEBRY		Unit NORTHEAST DRINKARD	
Completion Date 12-04-89		Total Depth 7850'		Plug Back TD 6520'		Elevation 3450' DF	
Casing Size 5-1/2"	Wt. 15.5, 17#	d 4.95"	Set At 7850'	Perforations: From 5556' To 5660'		Well No. 608	
Tubg. Size 2-3/8"	Wt. 4.70	d 1.995"	Set At 5740'	Perforations: From To		Unit Sec. Twp. Rye. F 15 21S 37E	
Type Well - Single - Broadhead - G.G. or G.O. Multiple				Packer Set At		County LEA	
Producing Thru TBG		Reservoir Temp. °F 182° P 5608'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 5740		H ---	C _g .801	% CO ₂ 5.8	% N ₂ 1.6	% H ₂ S 10 PPM	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	48 HRS						140	51			
1.	2.067 X 0.500			12.5	45"	57	34	57			72 HRS
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.189	34.01	25.7	1.003	1.117	1.018	46
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	138:1	Mcf/bbl.
1.	.019	.517	1.42	.975	A.P.I. Gravity of Liquid Hydrocarbons	NA	Deq.
2.					Specific Gravity Separator Gas	.801	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	687	P.S.I.A.
5.					Critical Temperature	407	R

P _c 153.2	P _c ² 23.5	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.031$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.031$
NO	P _r ²	P _w	P _w ²
1	.660	.848	.719
2			
3			
4			
5			

Absolute Open Flow		47.5 Mcfd @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
Remarks: DID NOT ATTEMPT 4-PT TEST DUE TO LOW DAILY FLOW.						

MAR 14 1990

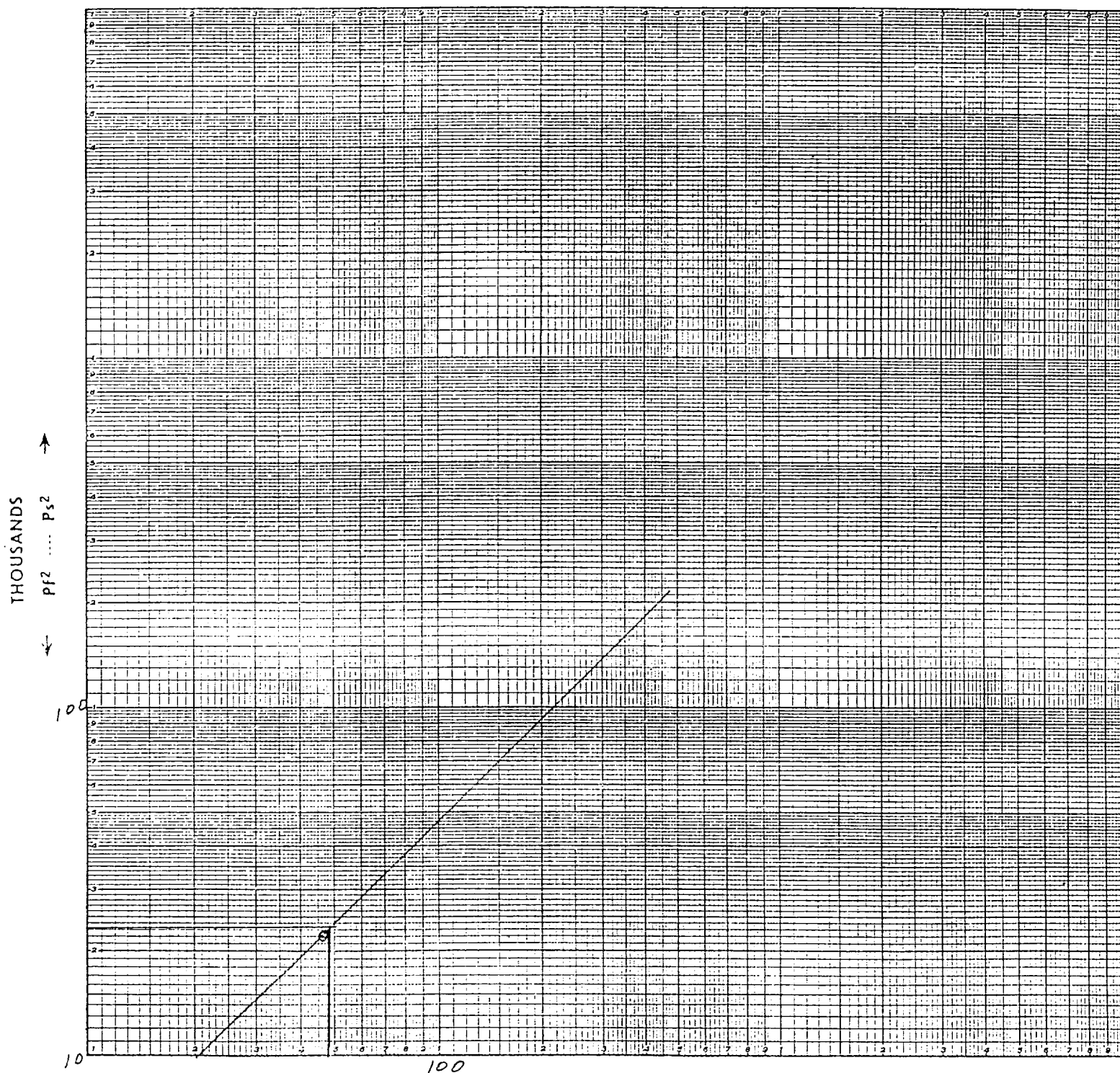
ORIGINAL SIGNED BY JERRY SEXTON

DISTRICT SUPERVISOR

Conducted By: D. E. ASHMORE	Calculated By: D. E. ASHMORE	Checked By:
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GAS WELL
BACK PRESSURE CURVE

County Lea Field N. E. D. U.
Operator Shell Western Exp Inc.
Lease N. E. D. U. Well No. 608
Volume 47 MCF/24 hr.
Date 2-19-90



← Q in MCF per DAY →

COMPANY Shell Western Exp Inc. LEASE N.E.D.U. WELL NO. # 608 DATE 2-19-90

LOCATION: Unit F Section 15 Township 21S Range 37E

L	5740	H	—	L/H	5740	G	.801	%CO ₂	5.8	%N ₂	1.6	%H ₂ S	5	PPM
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d 1.995 F_T .018231 GH 4598

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