

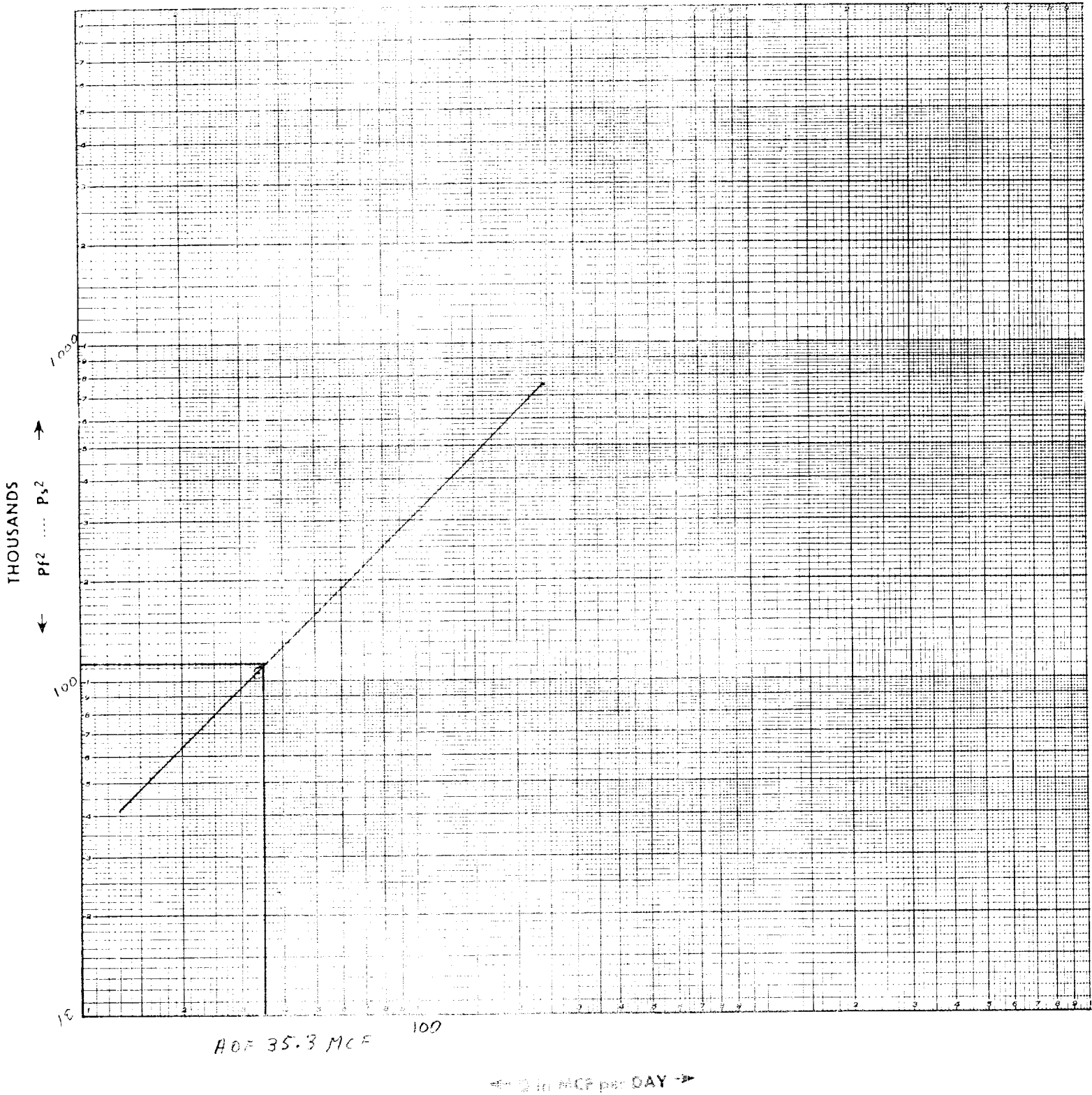
NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 5-4-90		RETEST		
Company SHELL WESTERN E&P INC.				Connection TEXACO PRODUCING INC.		1-PT TEST		
Pool N. EUNICE B-T-D OIL & GAS TUBB (PRORATED GAS)				Formation TUBB		Unit NORTHEAST DRINKARD		
Completion Date 3-19-90		Total Depth 6747'		Plug Back 6510'		Elevation 3459' GR		
Casing Size 7"		Well 23		Set At 6746'		Perforations: From 6180 To 6501		
Thg. Size 2-7/8"		Well 6.5		Set At 6478'		Perforations: From To		
Type Well - Single - Bradenhead - O.G. or G.O. Multiple				Factor Set At		County LEA		
Producing Thru TBG		Reservoir Temp. °F 101 @ 6612		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		
L 6612		H -----		G _g .749		% CO ₂ 1.00		
				% N ₂ 1.49		% H ₂ S TR		
				Prover BARTON		Meter Run 2.067		
				Taps FLG				
FLOW DATA					TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F
1.	2.067	X 0.500		50.0	9.5	66°	52	66°
2.								
3.								
4.								
5.								
RATE OF FLOW CALCULATIONS								
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mc/d	
1	1.189	24.50	63.2	.9943	1.155	1.016	34	
2								
3								
4								
5								
NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
1	.09	526	1.31	.969	A.P.I. Gravity of Liquid Hydrocarbons _____ @ 74° = 32.0			
2					Specific Gravity Separator Gas _____ .749			
3					Specific Gravity Flowing Fluid _____ XXXXX			
4					Critical Pressure _____ 668 P.S.I.A.			
5					Critical Temperature _____ 401 °R			
P _c 335.2 P _w 112.4					34 MCF/3 BBLS			
P _c 3.994 P _w 4.015 P _c ² - P _w ² 108.4					A.P.I. Gravity of Liquid Hydrocarbons _____ 33 @ 74° = 32.0			
					Specific Gravity Separator Gas _____ .749			
					Specific Gravity Flowing Fluid _____ XXXXX			
					Critical Pressure _____ 668 P.S.I.A.			
					Critical Temperature _____ 401 °R			
					1.056			
					658 P.S.I.A.			
					506 °R			
					1.037			
					35.3			
					45°			
					1.000			
Absolute Open Flow _____ 35.3 Mc/d @ 15.025								
Angle of Slope @ _____ 45°								
Slope, n _____ 1.000								
Remarks:								
FOR RECORD ONLY								
Conducted By H. E. Ashmore			Calculated By H. E. Ashmore			Checked By		

GAS WELL
BACK PRESSURE CURVE

County LEA Field DRINKY HAD
 Operator SHELL WESTERN OIL INC.
 Lease NEDU Well No. 305
 Volume 35.3 MCF/24 hr.
 Date 8. 12. 20



DATE 5-8-90

DATE 5-8-90

1

% H₂S Tr.

Tcr 506

[illegible]

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

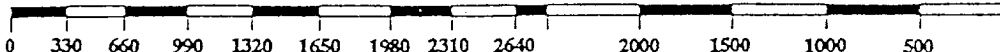
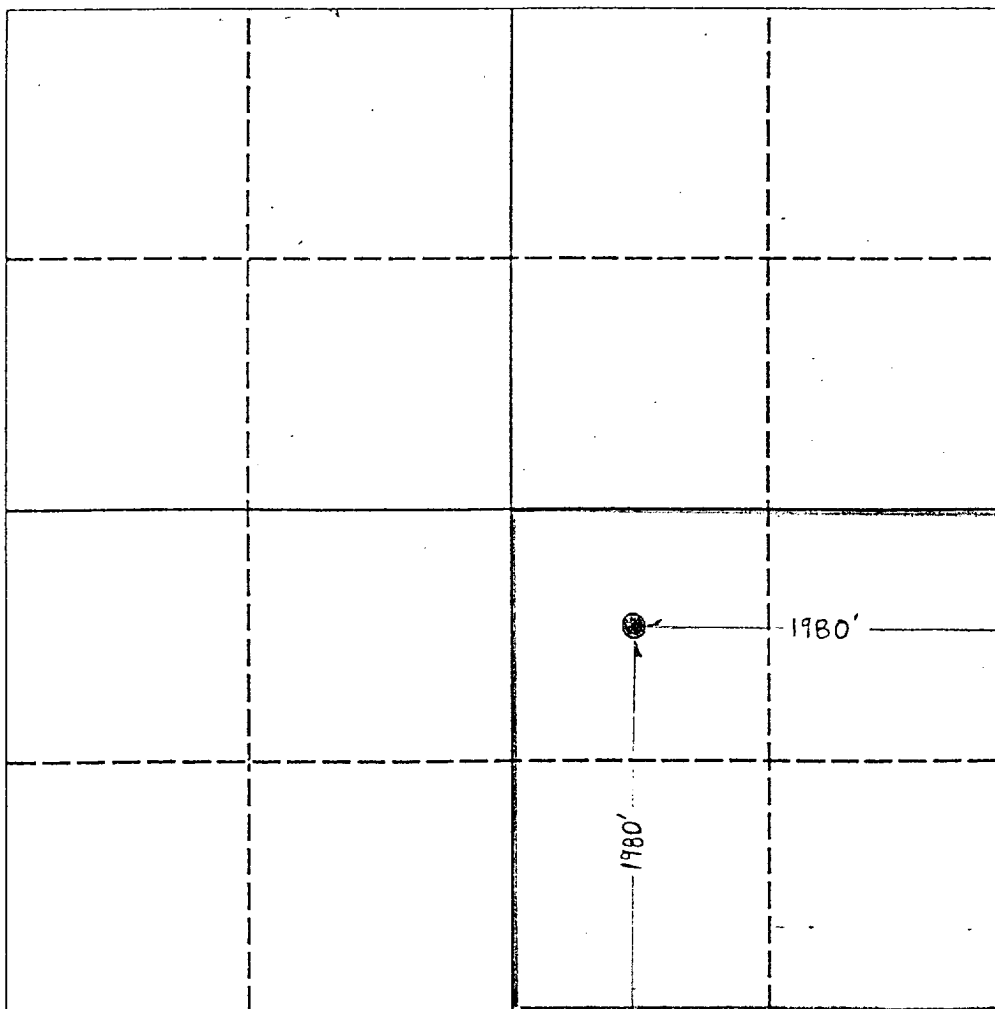
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SHELL WESTERN E&P INC.			Lease NORTHEAST DRINKARD UNIT		Well No. 305
Unit Letter J	Section 3	Township 21S	Range 37E	County NM PM LEA	
Actual Footage Location of Well: 1980 feet from the SOUTH line and 1980 feet from the EAST line					
Ground level Elev. 3459'	Producing Formation TUBB		Pool NORTH EUNICE BLINEBRY-TUBB- DRINKARD OIL & GAS / TUBB		Dedicated Acreage: 160 Acres
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below. (PRO GAS) 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? ☒ Yes ☐ No If answer is "yes" type of consolidation UNITIZATION If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.					



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

J. H. Smitherman

Printed Name

J. H. SMITHERMAN

Position

REGULATORY SUPV.

Company

SHELL WESTERN E&P INC.

Date

4-27-90

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.