

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-8-74		OCT 23 1974	
Company J.C. Estoff, Williamson & Underwood				Connection None		D.C.C.	
Pool Wildcat				Formation Deleware		Unit ARTESIA, OFFICE Ross Draw	
Completion Date 10-8-74		Total Depth 3589 3585		Plug Back TD 3552		Elevation 3000.9	
Csg. Size 5 1/2		Wt. 17		Set At 3585		Perforations: From 3462 To 3480	
Trg. Size 2 3/8		Wt. 4.90		Set At 3490		Perforations: From Open To End	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 96 @ 3471		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
L 3471		H		G _g .690		% CO ₂	
				% N ₂		% H ₂ S	
				Prover 2"		Meter Run	
						Taps	

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				1527		77	1527			
1.	2	x	3/32	1502		77	1502			1 hr.
2.	2	x	1/8	1448		77	1448			1 hr.
3.	2	x	5/32	1377		80	1377			1 hr.
4.	2	x	3/16	1250		80	1250			1 hr.
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 _{pv}	Rate of Flow Q, Mc/d
1.	.1414		1515.2	.9840	1.204	1.162	294
2.	.2618		1461.2	.9813	1.204	1.159	524
3.	.4173		1390.2	.9813	1.204	1.153	790
4.	.6101		1263.2	.9813	1.204	1.153	1050
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	None	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	None	Deg.
2.					Specific Gravity Separator Gas	.690	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	1540.2	P.S.I.A.
5.					Critical Temperature		R

P _c	1540	P _c ²	2372
NO.	P _i ²	P _w	P _w ²
1		1515	2295
2		1461	2135
3		1390	1932
4		1263	1595
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{3.0527}{3.0527 - 0.0000} = 3.0527$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.0527$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]$			

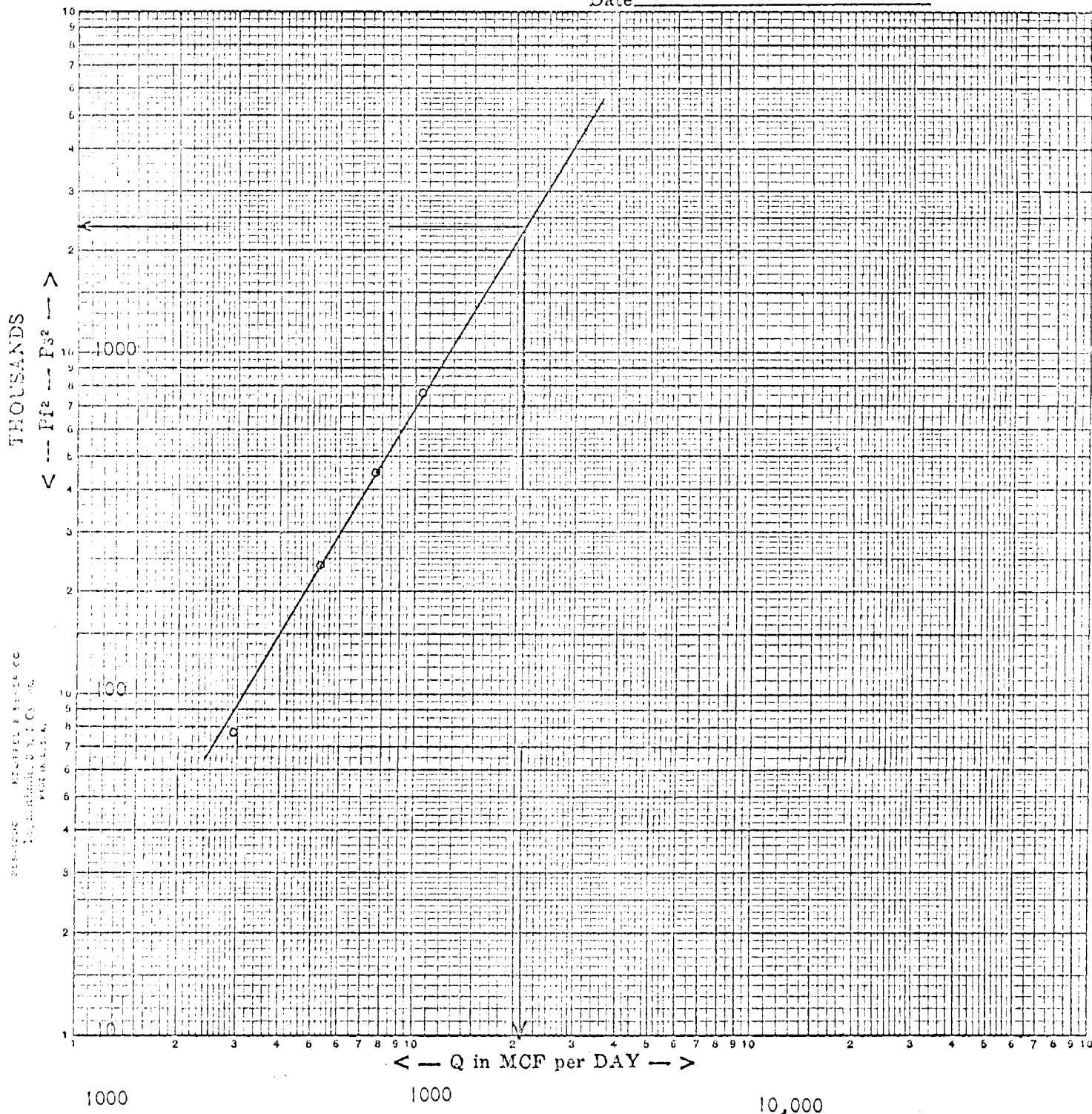
Absolute Open Flow 2081 Mc/d @ 15.025 Angle of Slope 58.5 Slope, n .613

Remarks: Shut In Gas Well

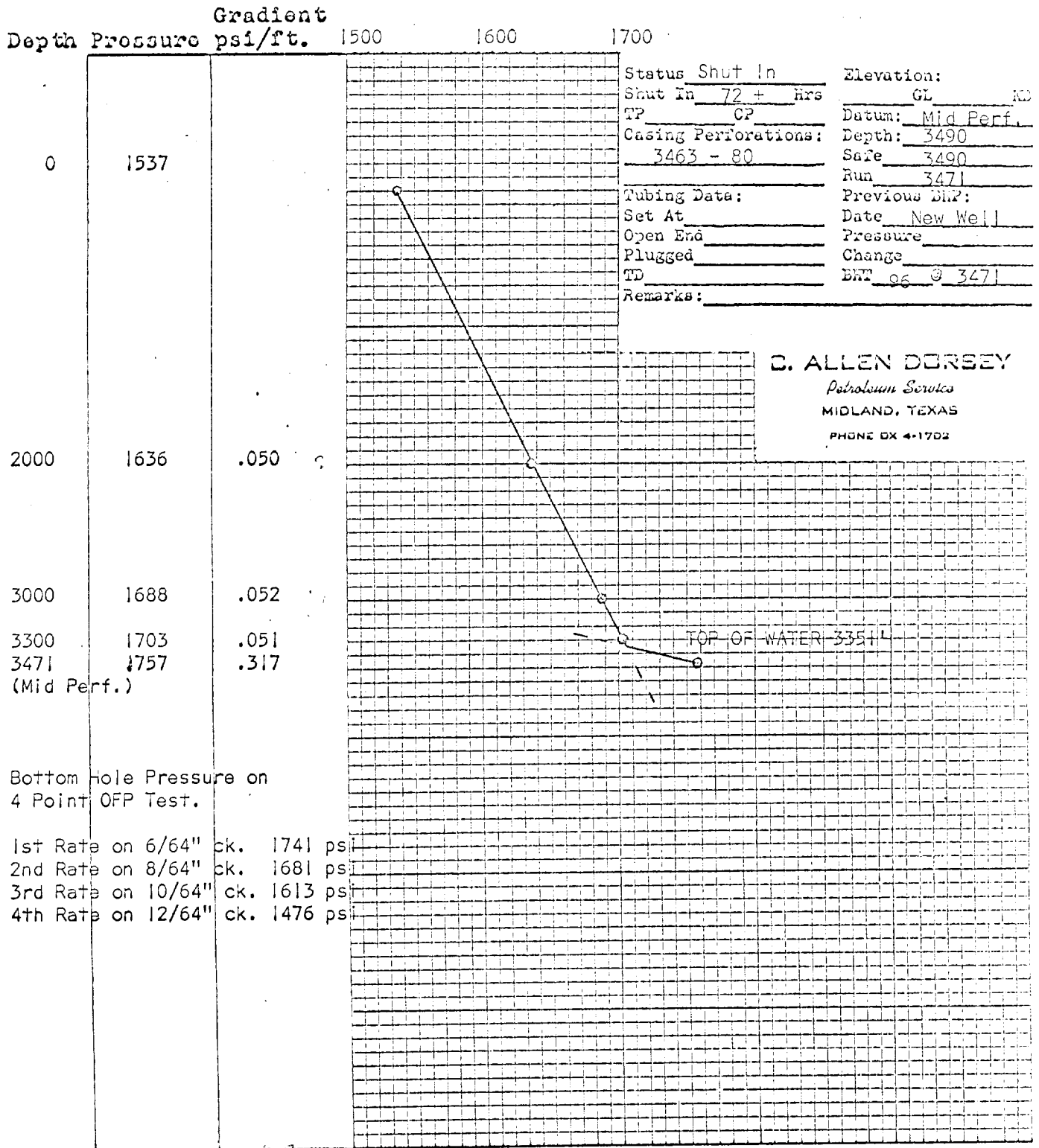
Approved By Commission:	Conducted By: C. Allen Dorsey	Calculated By: C. Allen Dorsey	Checked By:
-------------------------	----------------------------------	-----------------------------------	-------------

**GAS WELL
BACK PRESSURE CURVE**

County Eddy Field Wildcat
 Operator Ector, Williamson & Underwood
 Lease Ross Draw Unit Well No. 2
 Volume 2081 MCF/24 hr.
 Date 10-8-74



BOTTOM HOLE PRESSURE RECORD
PRESSURE POUNDS PER SQUARE INCH GUAGE



Status Shut In _____ Elevation: _____
 Shut In 72 + Hrs _____ GL _____ MD _____
 TP _____ CP _____ Datum: Mid Perf.
 Casing Perforations: Depth: 3490
3463 - 80 Safe 3490
 Run 3471
 Previous BHP: _____
 Tubing Data: Date New Well
 Set At _____ Pressure _____
 Open End _____ Change _____
 Plugged _____ BHT 06 @ 3471
 TD _____
 Remarks: _____

C. ALLEN DORSEY
Petroleum Services
 MIDLAND, TEXAS
 PHONE DX 4-1702

COMPANY ESTORIL, WILLIAMSON & UNDERWOOD LEASE ROSS DRAW UNIT WELL NO 2
 FIELD WILDCAT COUNTY EDDY STATE NEW MEXICO
 ORDERED BY GEO. KINGREA DATE TESTED 10-8-74