

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

Form
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-12-73	
Company John L. Cox				Connection None		
Pool West Sawyer				Formation San Andres		Unit
Completion Date 10-23-73		Total Depth 5005		Plug Back TD		Elevation 3987 GL
Csg. Size 4 1/2		Wt. 10.5		d 4.06		Set At 5005
Thg. Size 2 3/8		Wt. 4.6		d 1.99		Set At 4945
Perforations: From 4940		To 4992		Well No. 1		
Perforations: From 4945		To 48		Unit Sec. Twp. Rge. 21 9-S 37-E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Lea
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 13.2
L 4966		H		G _g .700		% CO ₂ % N ₂ % H ₂ S
Prover choke ripples		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		72 hrs.					818		818	
1.	2	10/64					744	52	744	52
2.	2 x	12/64					662	52	662	52
3.	2 x	14/64					577	54	577	54
4.	2 x	16/64					454	62	454	62
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, Mcfd
1	.4173			1.008	1.195	1.104	420
2	.6101			1.008	1.195	1.094	543
3	.8419			1.006	1.195	1.080	645
4	1.112			.9981	1.195	1.060	657
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 831.2	P _c ² 691	
NO.	P _t ²	P _w ²
1	757.2	573
2	675.2	456
3	590.2	348
4	467.2	218
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 959 MCF

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ _____

Absolute Open Flow 959 _____ Mcfd @ 15.025	Angle of Slope @ 45	Slope, n 1.00
Remarks: _____		

Approved By Commission 	Conducted By: C. Allen Dorsey	Calculated By: C. Allen Dorsey	Checked By:
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GAS WELL
BACK PRESSURE TEST

Company JOHN L. COX
 Well WL NO. 1
 Location 21 9-S 37-E
 County Lea
 Date 11-12-73

