

Well File
Form C-122
Revised 9-1-65

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

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-29-73		APR 3 1973	
Company The Petroleum Corporation			Connection None		ARTESIA, OFFICE
Pool Wildcat			Formation Strawn		Unit Parkway West Unit
Completion Date 3-26-73		Total Depth 11,802		Plug Back TD 10,720	Elevation 3321 G.L.
Casing Size 5-1/2		Wt. 17	d 4.892	Set At 10,598	Perforations: From 10,246 To 10,456
Tubing Size 2-1/16		Wt. 3.25	d 1.751	Set At 10,132	Perforations: From To
Type Well - Single - Brazenhead - G.G. or G.O. Multiple G.G. Multiple				Packer Set At 10,132	Well No. 1 - U
Producing Thru Tubing		Reservoir Temp. °F 140 @ 10,132		Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
L 10,132		H 10,132	G _g .706	% CO ₂ .31	% N ₂ 1.26
				% H ₂ S Nil	Prover Meter Run X
					Taps Flange

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							2740	60	Packer		11 Hours
1.	3.068	x	1.250	796	6	80	2234	70	Packer		11 Hours
2.	3.068	x	1.250	802	15	89	1815	72	Packer		11 Hours
3.	3.068	x	1.250	822	23	97	1520	72	Packer		11 Hours
4.	3.068	x	1.250	802	28	99	1331	72	Packer		11 Hours
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, Mcfd
1	7.577	69.68	809.2	.9813	1.190	1.099	678
2	7.577	110.58	815.2	.9732	1.190	1.086	1054
3	7.577	138.60	835.2	.9662	1.190	1.088	1314
4	7.577	151.08	815.2	.9645	1.190	1.086	1427
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	1.21	540	1.39	.828	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	1.22	549	1.41	.848	Specific Gravity Separator Gas _____
3	1.25	557	1.44	.845	Specific Gravity Flowing Fluid _____
4	1.22	559	1.44	.848	Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

P _c 2753.2 P _c ² 7580	
NO.	P _r ² P _w P _w ² P _c ² - P _w ²
1	2271.2 5158 2422
2	1863.2 3472 4108
3	1625.2 2641 4939
4	1486.2 2209 5371
5	

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.411$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.411$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2014$

Partial 13
6-22-73

Absolute Open Flow 2014	Mcf/d @ 15.025	Angle of Slope @ 45.0	Slope, n 1.000
Remarks:			

Approved By Commission:	Conducted By: CONE & KERLEY, INC.	Calculated By: Bill Kerley	Checked By: Bill Kerley
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