

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-19-73		MAY 11 1973		
Company Hillin Production Company				Connection None				O. C. C.	
Pool Wendover Morrow				Formation Upper Morrow				Unit ARTESIA, OFFICE N/A	
Completion Date 4-19-73		Total Depth 11,257		Plug Back TD 11,125		Elevation KB-3301		Farm or Lease Name J. C. W. State Corn	
Csg. Size 5 1/2	Wt. 20	d	Set At	Perforations: From 11038 To 11050				Well No.	
Tub. Size 2 3/8	Wt. 4.7	d	Set At 10,994	Perforations: From open To end				Unit Sec. Twp. Rge. N/2 2 20 28	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,990		County Eddy			
Producing Thru TBG		Reservoir Temp. °F 179 @ 10,994		Mean Annual Temp. °F		Baro. Press. - P _a 13.2		State New Mexico	
L	H	Cg .605	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	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							3440	74	0		24
1.	4 x 2.000			400	11.00	36	2936		0		1hr.
2.	4 x 2.000			410	19.00	30	2715		0		1hr.
3.	4 x 2.000			420	31.00	22	2470		0		1hr.
4.	4 x 2.000			430	46.00	19	2195		0		1hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	32.64	67.42	413.2	1.024	1.286	1.042	3,020
2.	32.64	89.67	423.2	1.030	1.286	1.043	4,044
3.	32.64	115.88	433.2	1.039	1.286	1.044	5,276
4.	32.64	142.78	443.2	1.042	1.286	1.059	6,613
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio 67.4 Mcf/bbl.		
1.	.62	496	1.39	.921	A.P.I. Gravity of Liquid Hydrocarbons 51.8 Deg.		
2.	.63	490	1.37	.919	Specific Gravity Separator Gas .605 XXXXXXXXX		
3.	.65	482	1.35	.917	Specific Gravity Flowing Fluid XXXXX G. Mix. 651		
4.	.66	479	1.34	.891	Critical Pressure 671 P.S.I.A. 670 P.S.I.A.		
5.					Critical Temperature 358 R 375 R		

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 2.534$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 2.534$
1.	3030.0	9180.9	2743.7			
2.	2865.1	8208.8	3715.8			
3.	2685.7	7218.4	4706.2			
4.	2511.6	6308.1	5616.9			
5.						

Absolute Open Flow 13,369 Mcfd @ 15.025				Angle of Slope θ 45	Slope, n 1.000
Remarks: Made total 11.70 BEES' Condensate. AOF calculated from known BHP'S.					
Approved By Commission:		Conducted By: Randy Kiker & J. B. Murray		Calculated By: J. B. Murray	
				Checked By:	

well file

post 4-8-73