NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
AUG 21 1972
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special

Test Date: 8-10-72

Company: Skelly Oil Company			Connection: Pending			Unit: 320 Acres	
Pool: Wildcat			Formation: Morrow				
Completion Date: 8-8-72	Total Depth: 15,000 (500)		Plug Back TD: 14,619		Elevation: 2969 KB: 2941 GL	Farm or Lease Name: Cedar Canyon	
Csg. Size: 7-3/4"	Wt.: 46.10	d: 6.560	Set At: 14,698	Perforations: From 13,062' To 13,374'		Well No.: 1	
Tbg. Size: 2-7/8"	Wt.: 6.5	d: 2.441	Set At: 13,374	Perforations: From 13,026' To 13,032'		Unit: P Sec.: 9 Twp.: 24S Rge.: 29E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas				Packer Set At: 13,026'		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 200 @ 13,218		Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13,218	13,218	.583	.91	2.98	--	--	4"	Flange

	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	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							4717	80	Pkr.		
1.	4	x	3.000	200	19	110	4588	80			50 min.
2.	4	x	3.000	460	44	88	4037	82			30 min.
3.	4	x	3.000	520	49	66	3832	79			30 min.
4.	4	x	3.000	645	58.5	57	3405	82			45 min.
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, Fpv	Rate of Flow Q, Mcfd
1	51.64	63.65	213.2	.9551	1.310	1.012	4162
2.	51.64	144.29	473.2	.9741	1.310	1.031	9803
3.	51.64	161.64	533.2	.9943	1.310	1.042	11,329
4.	51.64	196.23	658.2	1.003	1.310	1.055	14,047
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio -- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons -- Deg.
Specific Gravity Separator Gas .583 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature 350 R ____ R

P_c 6142 P_c^2 37,724

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		6035	36,421	1303
2		5721	32,730	4994
3		5569	31,014	6710
4		5311	28,207	9517
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 28.952$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7.89715$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 32,868$

Absolute Open Flow 32,868 Mcfd @ 15.025 Angle of Slope θ 58.5 Slope, n .614

Remarks: Bottom Hole Pressures measured with bottom hole pressure instrument.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Joe Banks & Glenn Hobbs	Jimmy Yancy	