Well File

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
MAR 26 1973
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 2-12-73	
Company: Skelly Oil Company			Connection: El Paso		
Pool: Cedar Canyon - Morrow (Gas)			Formation: Morrow		Unit
Completion Date: 1-29-73	Total Depth: 13,859		Plug Back TD: 13,728	Elevation: 2979 GR	Farm or Lease Name: Cedar Canyon 10 Com
Csg. Size: 5" / Wt.: 17.93 / d: 4.892 / Set At: 13,859			Perforations: From 13,354 To 13,366		Well No.: 1
Tbg. Size: 2-7/8 / Wt.: 6.5 / d: 2.441 / Set At: 13,308			Perforations: From To		Unit: F / Sec.: 10 / Twp.: 24S / Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas			Packer Set At: 13,308		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 194° @ 13,380	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
13,360	13,360	.579	1.07	.28	--	--	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						4589	56			Minutes
1.	4	2.5	580	33	90	1786	63			240
2.	4	2.5	580	29	90	1915	63	Packer		120
3.	4	2.5	580	25	88	2103	59			120
4.	4	2.5	580	21	86	2347	57			120
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	32.64	139.913	593.2	.9723	1.314	1.036	6045
2.	32.64	131.159	593.2	.9723	1.314	1.036	5666
3.	32.64	121.778	593.2	.9741	1.314	1.036	5271
4.	32.64	111.612	593.2	.9759	1.314	1.038	4849
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	3.43	523	1.52	.780
2.	3.53	523	1.52	.780
3.	3.72	519	1.50	.772
4.	4.00	517	1.50	.776
5.				

Gas Liquid Hydrocarbon Ratio -- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons -- Deg.
Specific Gravity Separator Gas .579 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 676 P.S.I.A. -- P.S.I.A.
Critical Temperature 345 R R

P_c 4602.2 P_c^2 21,180.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2320	5382	15,798
2		2389	5707	15,473
3		2515	6325	14,855
4		2704	7312	13,868
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.34069$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.34069$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8104$

Absolute Open Flow 8104 Mcfd @ 15.025 Angle of Slope θ 45° Slope, n 1.000

Remarks: Bottom hole pressures measured by bottom hole pressure instrument. Because of excessive water points did not line up, therefore 45° drawn through highest rate of flow.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Joe Banks	Jimmy D. Yancy	