Well File

NEW MEXICO 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: 3-20-73	
Company: Skelly Oil Company			Connection: El Paso		Unit:
Pool: Cedar Canyon - Morrow Gas			Formation: Morrow		
Completion Date: 3-6-73	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 13,074 To 13,366		Well No.: 1
Tbg. Size: 2-7/8 / Wt.: 6.5 / d: 2.441 / Set At: 12,896			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: 12,856		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
13,220	13,220	.581	.90	.92	--	--	4	Flange

NO.	FLOW DATA: Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						4390	72	Packer		
1.	4	2.500	670	30.0	64	2126	80			2 hrs.
2.	4	2.500	665	26.3	58	2340	67			2 hrs.
3.	4	2.500	660	21.5	60	2632	66			2 hrs.
4.	4	2.500	660	17.0	60	2900	65			2 hrs.
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	143.164	683.2	.9962	1.312	1.053	6431
2.	32.64	133.554	678.2	1.002	1.312	1.054	6040
3.	32.64	120.307	673.2	1.000	1.312	1.054	5430
4.	32.64	106.979	673.2	1.000	1.312	1.054	4829
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	3.35	540	1.56	.8002
2.	3.63	527	1.52	.7800
3.	4.02	526	1.52	.7844
4.	4.39	525	1.52	.7948
5.				

Gas Liquid Hydrocarbon Ratio -- Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons -- Deg.
Specific Gravity Separator Gas .581 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX --
Critical Pressure 675 P.S.I.A. -- P.S.I.A.
Critical Temperature 346 R R

P_c 4403.2 P_c^2 19,388.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2259.2	5104.0	14284.2
2		2449.2	5998.6	13389.6
3		2716.2	7377.7	12010.5
4		2966.2	8798.3	10589.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.35732$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3474$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8665$

Absolute Open Flow 8665 Mcfd @ 15.025 Angle of Slope θ Slope, n .976

Remarks:

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