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C-122

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

Form C-122
Revised 9-1-65

Federal Lse #NM0479142

RECEIVED
MAY 6 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 4/25/74	
Company: Phillips Petro. Company	Connection: El Paso Natural Gas Company			Unit
Pool: Cabin Lake -Morrow (Gas)	Formation: Morrow			
Completion Date: 3/10/74	Total Depth: 13,950	Plug Back TD: 13,590'	Elevation: 3198' GR 3220' DF	Farm or Lease Name: James E
Csg. Size: 5½ / Wt.: 23# / d: / Set At: 13948'		Perforations: From 13,323 To 13400		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5# / d: / Set At: 13,200		Perforations: From To		Unit: G / Sec.: 11 / Twp.: 22-S / Rge.: 30-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas- Dual		Packer Set At: 13,200		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 179 @ 13900	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico
L: 13,200 / H: 13,200 / Gg: .589	% CO_2:	% N_2:	% H_2S:	Prover: / Meter Run: 4" / Taps: Flg.

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						4679				72 hr.
1.	4	x 1.750	600	8.40	78	4065	82			1 hr.
2.	4	x 1.750	604	14.40	72	3612	82			1 hr.
3.	4	x 1.750	608	20.30	68	3182	84			1 hr.
4.	4	x 1.750	605	27.00	66	2639	83			1 hr.
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	14.93	71.77	613.2	.9831	1.303	1.048	1,438
2	14.93	94.27	617.2	.9887	1.303	1.049	1,902
3	14.93	112.30	621.2	.9924	1.303	1.049	2,274
4	14.93	129.20	618.2	.9943	1.303	1.049	2,622
5							

NO.	P_t	Temp. °R	T_r	Z
1.	.91	538	1.54	.910
2.	.92	532	1.52	.909
3.	.92	528	1.51	.909
4.	.92	526	1.50	.909
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: .589 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 350 R ____ R

P_c 4692.2 P_c^2 22016.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			16662.6	5354.1
2			13193.7	8823.0
3			10280.0	11736.7
4			6981.4	15035.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.464$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.240$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.275$

Absolute Open Flow 3,275 Mcfd @ 15.025 | Angle of Slope θ 59.75 | Slope, n .583

Remarks: No condensate made during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Rick Pagan	Rick Pagan	