EW MEXICO OIL CONSERVATION C ISSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

REC. W. TEX. PROD.

DEC 1 1978

Type Test: [X] Initial - Retest [ ] Annual [ ] Special				Test Date: 11-21-78	SPUD DATE: N/A
Company: Delta Drilling Company		Connection: El Paso Natural Gas Company			
Pool: ~~Undesignated~~ Wildcat Atoka		Formation: Atoka			Unit: G
Completion Date: 10-21-78	Total Depth: 11876	Plug Back TD: 11876		Elevation: 3167 KB	Farm or Lease Name: South Culebra Bluff
Csg. Size: 7" / Wt.: 26.0 / d: 6.276 / Set At: 11745		Perforations: From 11745 To 11876			Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 11739		Perforations: From open To end			Unit: G / Sec.: 23 / Twp.: 23 / Rge.: 28
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 11725		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 182 @ 11811	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
11811	11811	.573	.043	.55			6"	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					2975				
1.	6 x 2.000	565	6.76	74	2910				60 Min.
2.	6 x 2.000	567	19.36	56	2840				45 Min.
3.	6 x 2.000	570	64.80	40	2635				60 Min.
4.	6 x 2.000	573	100.0	40	2455				60 Min.
5.									

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O. C. C.
ARTESIA, OFFICE

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	19.16	62.52	578.2	.9868	1.321	1.041	1,626
2.	19.16	105.98	580.2	1.004	1.321	1.046	2,817
3.	19.16	194.40	583.2	1.020	1.321	1.052	5,280
4.	19.16	242.12	586.2	1.020	1.321	1.052	6,576
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.86	534	1.54	.923
2.	.86	516	1.49	.914
3.	.87	500	1.45	.903
4.	.87	500	1.45	.903
5.				

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: ____ Deg.
Specific Gravity Separator Gas: .573 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX ____
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 346 R ____ R

P_c *3114.5 P_c^2 9700.1

NO	R.H.P.	P_w	P_w^2	$P_c^2 - P_w^2$
1	3916.2	3069.6	9422.4	277.7
2	3843.2	3009.0	9054.1	646.0
3	3654.2	2853.8	8144.2	1555.9
4	3576.2	2790.5	7786.9	1913.2
5	**3970.2			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.234$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.439$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 18,158$

Absolute Open Flow: 18,158 Mcfd @ 15.025 | Angle of Slope θ: 56 | Slope, n: .675

Remarks: * All pressures obtained from bottom hole bomb set at 11,662. Made no fluid during test. ** Bottom hole shut-in pressure.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jarrel Services	Bob McMurrain	