NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
NOV 13 1978
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11/1/78	
Company: Delta Drilling Company		Connection: El Paso Natural Gas Co.			Unit
Pool: ~~Undesignated~~ Wildcat Atoka		Formation: Atoka			
Completion Date: 10/21/78	Total Depth: 11876'	Plug Back TD: 11876'	Elevation: 3017'KB	Farm or Lease Name: So. Cluebra Bluff Unit	
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'	.574	0.548	0.595	–		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. DWT	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3605		PACKER		
1.	6 12/64 X 3.500	598	1.0	91	2550				2 hr.
2.	6 15/64 X 3.500	598	2.25	82	2517				1 hr.
3.	6 20/64 X 3.500	600	6.25	74	2255				1 hr.
4.	6 24/64 X 3.500	604	10.89	68	2010				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	62.47	24.72	611.2	.9715	1.318	1.038	2053
2	62.47	37.08	611.2	.9795	1.318	1.040	3110
3	62.47	61.91	613.2	.9868	1.318	1.044	5252
4	62.47	81.98	617.2	.9924	1.318	1.045	7000
5							

NO.	P_t	Temp. °R	T_r	Z
1	.91	551	1.59	.928
2	.91	542	1.57	.924
3	.91	534	1.54	.918
4	.92	528	1.53	.915
5				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: – Deg.
Specific Gravity Separator Gas: .576 XXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 346 R R

P_c 3618.2 P_c^2 13091.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2573.1	6620.8	6470.6
2		2552.6	6515.8	6575.6
3		2336.8	5460.6	7650.8
4		2155.4	4645.7	8445.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.550$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.550$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10850$

Absolute Open Flow: 10850 Mcfd @ 15.025 Angle of Slope θ: 45° Slope, n: 1.000

Remarks: Made 99.2 Barrels of Water During Test

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JARREL SERVICES, INC.	B. McMurrian	Joe A. Coleman