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NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 3/2/81					
Company: American Trading & Production Corporation				Connection:							
Pool: Wildcat				Formation: Strawn						Unit: H	
Completion Date: 3-2-81	Total Depth: 19,600			Plug Back TD: 14,925		Elevation: 3047.4				Farm or Lease Name: Talco Unit	
Csg. Size: 20 / 13 3/8, 9 5/8	Wt.: 94-68.72 / 47-43.5	d		Set At: 505 / 5136 / 12615		Perforations: From 13,889 To 96				Well No.: 1	
Tbg. Size: 1/2-2 7/8	Wt.: 12.95	d		Set At: 13,882		Perforations: From 13,988 To 14,000				Unit: H	Sec.: 11	Twp.: 26	Rge.: 35
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G.				Packer Set At: 13,882						County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: e		Mean Annual Temp. °F		Baro. Press. – P_a					State: New Mexico	
L: 13945	H: 13945	Gg: .593	% CO_2: .44	% N_2: .58	% H_2S	Prover	Meter Run: 4.026	Taps: 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					6805	49			26
1.	4.026 x 1.750	300	10	77	6550	57			1
2.	4.026 x 1.750	450	24	79	6195	59			1
3.	4.026 x 1.750	600	42	80	5615	62			1
4.	4.026 x 1.750	900	57	79	4450	65			1.5
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	55.96	313.2	.9840	1.2987	1.0236	1093
2.	14.93	105.44	463.2	.9822	1.2987	1.0343	2076
3.	14.93	160.48	613.2	.9813	1.2987	1.0451	3190
4.	14.93	228.15	913.2	.9822	1.2987	1.0674	4637
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.46	537	1.52	.954
2.	.69	539	1.52	.935
3.	.91	540	1.53	.916
4.	1.36	539	1.52	.878
5.				

Gas Liquid Hydrocarbon Ratio 229.1 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 50.1 Deg.
Specific Gravity Separator Gas .593 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .606
Critical Pressure 674 P.S.I.A. 673 P.S.I.A.
Critical Temperature 354 R 358 R

P_c 6839.1 P_c^2 46774

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	43076	6579	43284	3490
2	38542	6236	38890	7884
3	31677	5681	32279	14495
4	19920	4576	20942	25832
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8107$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5329$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7250$

Absolute Open Flow 7250 Mcfd @ 15.025 Angle of Slope e 53.5 Slope, n .740

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By: