STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

C CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 1-23-84	
Company: Conoco, Inc.		Connection: None			
Pool: Jalmat		Formation: Yates		Unit: I	
Completion Date: 1-17-84	Total Depth: 4000'	Plug Back TD: 2790'	Elevation: 3068'GL	Farm or Lease Name: Sholes A AC/1	
Csg. Size: 5½" / Wt.: 15.5# / d: 4.950 / Set At: 3993'		Perforations: From 2658' To 2734'		Well No.: 5	
Tbg. Size: 2⅜" / Wt.: 4.7# / d: 1.995 / Set At: 2773'		Perforations: From Open To Ended		Unit: I / Sec.: 24 / Twp.: 25S / Rge.: 36E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 101 @ 2696'	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
2773'	2773'	.672	2.99	1.80	.22	—	3.068"	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					229		231		48 Hrs.
1.	3.068" X 1.500"	49	6	60	221		223	(Stabilized)	45 Min.
2.	3.068" X 1.500"	52	12	64	215		218	"	30 Min.
3.	3.068" X 1.500"	53	24	63	203		212	"	30 Min.
4.	3.068" X 1.500"	57	54	65	184		197	"	60 Min.
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	11.13	19.318	62.2	1.0000	1.220	Nil	262
2.	11.13	27.971	65.2	0.9962	1.220	Nil	378
3	11.13	39.860	66.2	0.9971	1.220	Nil	540
4	11.13	61.569	70.2	0.9952	1.220	Nil	832
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.09	520	1.36	Nil
2.	0.10	524	1.37	Nil
3.	0.10	523	1.37	Nil
4.	0.10	525	1.37	Nil
5				

Gas Liquid Hydrocarbon Ratio: None Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .672 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 669 P.S.I.A. P.S.I.A.
Critical Temperature: 383 °R °R

P_c 244.2 P_c^2 59.6

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1	54.8	236.2	55.8	3.8
2	52.1	231.2	53.5	6.1
3	46.7	225.2	50.7	8.9
4	38.9	210.2	44.2	15.4
5				

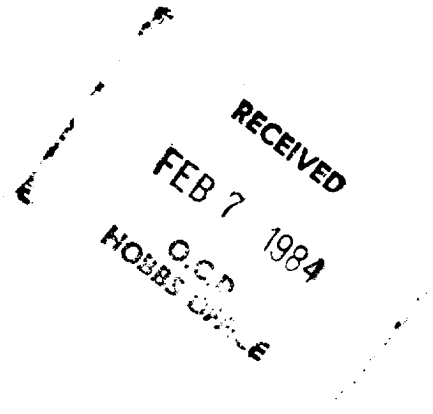
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.870$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.087$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,568.4$

Absolute Open Flow: 2,568 Mcfd @ 15.025 Angle of Slope θ: 50.2 Slope, n: .833

Remarks: One barrel of water was produced during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	T.C. Adduddell, Conoco B. McMurrain, EANG	Tom C. Adduddell	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