STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-122
Revised 10-1-78

RECEIVED
AUG 23 '88
O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: XX Initial ☐ Annual ☐ Special				Test Date: 10/23/85	
Company: EXXON CO. U.S.A.		Connection: NONE			
Pool: RED TANK DRAW Permo-Penn		Formation: CISCO		Unit	
Completion Date: 10/1/85	Total Depth: 8555	Plug Back TD: 7581	Elevation: 3818	Farm or Lease Name: N. Mex. E.S. State Com ~~E.S.~~	
Csg. Size: 5 ½ / Wt.: 15.5 / d: 4.950 / Set At: 8552		Perforations: From 6144 To 6390		Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 6008		Perforations: From Open To End		Unit: O / Sec.: 7 / Twp.: 19S / Rge.: 24E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 6008		County: Eddy	
Producing Thru: Tbg.	Reservoir Temp. °F: 134 @ 6008	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	
L: 6008	H: 6008	Gg: .631	% CO_2: .394	% N_2: .904	% H_2S:	Prover:	Meter Run: 3.826	Taps: Flg.

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					1270				
1.	3.826 X 750	300	12	77	1225	74			1 hr.
2.	3.826 X 750	310	35	80	1175	74			1 hr.
3.	3.826 X 750	310	69	82	1107	74			1 hr.
4.	3.826 X 1.00	320	38	82	1005	74			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	2.662	61.31	313.2	.9840	1.259	1.028	208
2.	2.662	106.36	323.2	.9813	1.259	1.028	360
3.	2.662	149.33	323.2	.9795	1.259	1.028	504
4.	4.758	112.52	333.2	.9795	1.259	1.029	679
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.47	537	1.46	.947
2.	.48	540	1.47	.947
3.	.48	542	1.47	.947
4.	.50	542	1.47	.945
5.				

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .631 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. P.S.I.A.
Critical Temperature: 368 R R

P_c 1283.2 P_c^2 1646.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1238.3	1533.4	113.3
2		1188.6	1412.7	234.0
3		1121.0	1256.6	390.1
4		1019.8	1039.9	606.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.714$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9994$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.358$

Absolute Open Flow: 1,358 Mcfd @ 15.025 Angle of Slope θ: 55.25 Slope, n: .694

Remarks: Well made no fluid during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Duke Services, Inc.	R. Reston	