NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
NOV 28 1972
O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 11-15-72	
Company: David Fasken	Connection: Transwestern			Unit:
Pool: Boyd Morrow Gas	Formation: Morrow			
Completion Date: 8-20-72	Total Depth: 9293	Plug Back TD: 9215	Elevation: 3498 KB	Farm or Lease Name: Arco "10" Federal
Csg. Size: 4 1/2 / Wt.: 10.50 / 11.60 / d: 4.052 / 4.000 / Set At: 9291		Perforations: From 9026 To 9068		Well No.: 2
Tbg. Size: 2 3/8 / Wt.: 4.70 / d: 1.995 / Set At: 8625		Perforations: From To		Unit: G / Sec.: 10 / Twp.: 19S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - GAs		Packer Set At: 8625		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 166 @ 8557	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9047	9047	0.595					X	

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							2333		Pkr.		24 hrs
1.	4"	x	2.625"	505	2.5	62	2294	74			30 min.
2.	4"	x	2.625"	515	6.0	70	2248	74			45 min.
3.	4"	x	2.625"	565	13.5	70	2106	74			45 min.
4.	4"	x	2.625"	590	39.0	64	1689	74			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	36.66	36.0	518.2	0.9981	1.296	1.043	1780.6
2.	36.66	56.3	528.2	0.9905	1.296	1.042	2760.8
3.	36.66	88.3	578.2	0.9905	1.296	1.045	4342.4
4.	36.66	153.4	603.2	0.9962	1.296	1.052	7638.1
5.							

NO.	P_t	Temp. °R	T_t	Z
1	Simplified			
2.	Supercompressibility			
3.	Tables Uses			
4.				
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 354 R ____ R

P_f 2899.2 P_f^2 8405

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		2874.2	8261	144
2		2825.2	7982	423
3		2751.2	7569	836
4		2546.2	6483	1922
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ ____

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

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

Absolute Open Flow: 20,500 Mcfd @ 15.025
Angle of Slope θ: 55° 53'
Slope, n: 0.67736

Remarks: BHP measured with Amerada RPG-3 gauge

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	F. Tefteller	