

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

clst.
File

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-18-89		NOV 6 - '89	
Company AMOCO PRODUCTION COMPANY ✓				Connection Transwestern				G. S. D. ARTESIA, OFFICE	
Pool Black River				Formation Atoka				Unit	
Completion Date 9-3-89		Total Depth 12782		Plug Back TD 12165		Elevation 3092' GL		Farm or Lease Name State "MS" Gas Com.	
Cas. Size 7 5/8	Wt. 39	d	Set At 12782	Perforations: From 11308 To 11734		Well No. 1			
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 11227	Perforations: From Open To End		Unit c	Sec. 12	Twp. 24S	Rge. 27E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 9060		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 187 @ 11308		Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2		State NM	
L 11308	H 11308	Gg .576	% CO ₂ .38	% N ₂ .78	% H ₂ S --	Prover	Meter Run 4"	Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1633		Pkr.		24 Hrs.
1.	4	X	.625	420	5.00	78	1455		Pkr.		1 Hr.
2.	4	X	.625	420	10.50	78	1323		Pkr.		1 Hr.
3.	4	X	.625	420	18.00	78	1155		Pkr.		1 Hr.
4.	4	X	.625	425	28.00	81	887		Pkr.		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	1.845	46.54	433.2	.9831	1.318	1.031	115
2	1.845	67.44	433.2	.9831	1.318	1.031	166
3	1.845	88.30	433.2	.9831	1.318	1.031	218
4	1.845	110.77	438.2	.9804	1.318	1.030	272
5.							

NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u> Mcf/bbl.	
1	.64	538	1.54	.941	A.P.I. Gravity of Liquid Hydrocarbons <u>Dry</u> Deg.	
2	.64	538	1.54	.941	Specific Gravity Separator Gas <u>.576</u> XXXXXXXXXX	
3	.64	538	1.54	.941	Specific Gravity Flowing Fluid <u>XXXXX</u>	
4	.65	541	1.56	.943	Critical Pressure <u>672</u> P.S.I.A. P.S.I.A.	
5					Critical Temperature <u>346</u> R R	

P _c 1646.2 P _c ² 2710.0				
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		1468.4	2156.1	553.9
2		1336.5	1786.3	923.7
3		1168.9	1366.3	1343.7
4		901.6	812.9	1897.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.428$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.289$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .351$

Absolute Open Flow <u>351</u> Mcfd @ 15.025	Angle of Slope @ <u>54.5</u>	Slope, n <u>.713</u>
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Remarks: No fluid produced during test

Approved By Commission:	Conducted By: John West Engineering	Calculated By: JBM	Checked By: JBM
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