

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

APR 4 7 45 AM '66
APR 6 10 49 AM '66

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-4-66	
Company Texaco Inc.			Connection None		
Pool Osuda (Atoka)			Formation Atoka		Unit
Completion Date Feb. 25, 1966		Total Depth 12000		Plug Back TD 11904	Elevation
Farm or Lease Name St. of N.M. "DB"					
Csg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 11990	Perforations: From 11378 To 11611	
Perf. Size None	Wt.	d	Set At	Perforations: From To	
Type Well - Single - Blindhead - G.G. or G.O. Multiple Single				Perfor. Set At	County Lea
Producing Thru Casing		Reservoir Temp. °F 170 @ 11378		Mean Annual Temp. °F 60	State New Mexico
L 11378	H 11378	Cg .623	% CO ₂ .17	% N ₂ .52	% H ₂ S 0.0
Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
N.O.	Driller 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
1.	2.067		1.500	47	15	62			5180	60	72
2.	"		"	47	27	70			4650	62	1
3.	"		"	47	56	76			4302	63	1
4.	"		"	20	79	64			3900	64	1
5.									3231	66	1

RATE OF FLOW CALCULATIONS							
N.O.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	12.76	30.05	60.2	1.000	1.267	Negligible	485.8
2	"	40.31	60.2	.9905	"		645.5
3	"	58.06	60.2	.9850	"		924.5
4	"	85.81	93.2	.9962	"		1282
5							

N.O.	R	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mc/bbl.
1					DRY	
2						
3						
4						
5						

A.P.I. Gravity of Liquid Hydrocarbons		Specific Gravity Separator Gas .623		XXXXXXX	
Specific Gravity Flowing Fluid		XXXXX		.623	
Critical Pressure		671		P.S.I.A. 671	
Critical Temperature		366		R 366	

N.O.	P ₁ ²	P ₂ ²	P ₃ ²	P ₄ ²	P ₅ ²	P ₆ ²	P ₇ ²	P ₈ ²	P ₉ ²	P ₁₀ ²
1	165.3	21765	5204							
2	4318.4	18649	8320							
3	3718.9	15358	11611							
4	3351.9	11235	15734							
5										

$$(1) \frac{P_2^2}{P_1^2 - P_2^2} = 1.714$$

$$AOF = Q \left[\frac{P_2^2}{P_1^2 - P_2^2} \right]^n = 2369$$

$$(2) \left[\frac{P_2^2}{P_1^2 - P_2^2} \right]^n = 1.714$$

Absolute Open Flow	2369	Mcfd @ 15.025	Angle of Slope @	45	Slope, n	1.00
Remarks:						

Approved By Commission:	Conducted By: J. M. Moore	Calculated By: J. M. Moore	Checked By:
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