

MULTIF

ILLEGIBLE

NEW MEXICO OIL CONSERVATION

FORMATION

FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

C/SF C-122

DEC 18 1981

Type Test ☒ Initial ☐ Annual		10-19-81		O. C. D. ARTESIA OFFICE							
Company Yates Petroleum Corporation		Atoka		K 5115							
Pool W. Burton Flat Atoka		Atoka		Stonewall "EP" St. Com.							
Completion Date 10-19-81		Total Depth 11572		11077 KB 3276 KB							
Cas. Size 5 1/2	Wt. 17# (#20)	d 4.892	Set At 11525 KB	Perforations From 10553	10575 KB						
Fig. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 10552 KB	Perforations From 10513	10516 KB						
Type Well - Single - Production - G.C. or G.C. Multiple Single				10506 KB							
Producing Thru Tubing		Reservoir Temp. °F 162 ° 10564		Mean Annual Temp. °F 62 13.2							
L 10556	H 10556	Q 0.629	% H ₂ 0.84	% H ₂ 0.41	4" Flanged						
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	DHL In	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
51							1750	62			48 hrs.
1.	4.067 X	2.250		280	6	75	1459	65			16 hrs.
2.	4.067 X	2.250		286	11	75	1310	66			24 hrs.
3.	4.067 X	2.250		293	20	75	1105	67			24 hrs.
4.	4.067 X	2.250		300	28	75	942	67			24 hrs.
5.											
RATE OF FLOW CORRELATION											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_{in}}$	Pressure P _{in}	Flow Temp. Factor F _L	Flow Factor F _L	Super Factor, F _{sp}	Rate of Flow q, Mcf/d				
1	31.40	41.94	293.2	0.9859	1.276	1.0242	1695				
2	31.40	57.37	299.2	0.9859	1.276	1.0247	2320				
3	31.40	78.26	306.2	0.9859	1.276	1.0253	3167				
4	31.40	93.65	313.2	0.9859	1.276	1.0258	3792				
5											
NO.	R _L	Temp. °F	T _g	Z	Gas Liquid Hydrocarbon Data	193.0	Mcf/bbl.				
1	0.436	535	1.482	.9532	A.P.G. Gravity of Liquid Hydrocarbon	58.1	Deq.				
2	0.445	535	1.482	.9523	Specific Gravity Separator	0.614	XXXXXX				
3	0.455	535	1.482	.9513	Specific Gravity Separator	673	XXXXXX				
4	0.465	535	1.482	.9503	Critical Pressure	361	370				
5					Critical Temperature						
P _c 2314.2 P _c 5355				1.8849							
NO.	P ₁	P ₂	R ₁	P ₂ - R ₁	1.8849						
1			3803	1552							
2			3226	2129							
3			2514	2841							
4			2130	3225							
5											
Absolute Open Flow 5970				45 deg. 1.000							
Remarks: Static pressures by Bennett Wireline, flowing pressures by DWT. Calculative worksheet C122D attached.											
Approved By Commission				Produced By							
Bill Trembley Jr.				Eddie Mahfood							