

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

Form C-122
Revised 9-1-65

AUG - 7 1978

RECEIVED
AUG 2 1978
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

5-1-79
L.5987
Done Wolf
atoka

Type Test ☒ Initial ☐ Annual ☐ O.C.C. Special		Test Date 7/17/78	
Company Depco, Inc.		Connection None	
Pool Wildcat atoka Undesignated		Formation Atoka	
Completion Date 7/12/78		Total Depth 9523'	Plug Back TD 9262'
		Elevation 3813' GL	Form or Lease Name Sundance Federal A
Csg. Size 4 1/2"	Wt. 11.6	d 4,000	Set At 9304'
Perforations: From 8886' To 8898'		Well No. 1	
Trg. Size 2 3/8"	Wt. 4.7	d 1,995	Se. At 8812'
Perforations: Open Ended		Unit Sec. Twp. Rge. J 25 12s 29e	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 8812'	County Chaves
Producing Thru Tubing	Reservoir Temp. °F 162° 8795	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
State New Mexico			
L 8795	H 8795	G _g .685	% CO ₂ 1.933
		% N ₂ 3.611	% H ₂ S 0.000
Prover X		Meter Run 4	Taps F

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. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2000		PACKER		72.0
1.	4 4/64	1.250	370	1.0	104	1950	80				1.0
2.	4 8/64	1.250	380	10.2	89	1810	76				1.0
3.	4 10/64	1.250	380	18.9	74	1790	76				1.0
4.	4 13/64	1.250	380	41.0	72	1625	76				2.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	7,469	19.58	383.2	.9602	1.208	1.034	175
2	7,469	63.33	393.2	.9732	1.208	1.038	577
3	7,469	86.21	393.2	.9868	1.208	1.041	799
4	7,469	126.97	393.2	.9887	1.208	1.043	1181
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.57	564	1.46	.936	28.458 Mcf/bbl.	-	.685	X X X X X X X X	669 P.S.I.A.	385 °R
2	.59	549	1.43	.929			X X X X X			
3	.59	534	1.39	.922						
4	.59	532	1.38	.920						
5										

P _c 2204.2 P _w 4858.5		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.225$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.648$	
NO.	P _c	P _w *	P _w	P _c - P _w	
1		2156.8	4651.8	206.7	
2		2042.0	4169.8	688.7	
3		1937.9	3755.5	1103.0	
4		1635.5	2674.9	2183.6	
5					

Absolute Open Flow		1947 Mcfd @ 15.025		Angle of Slope θ		58		Slope, n		0.625	
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Remarks: * Calculated from known B.H.P. Made 4 BBLS Condsate during Test

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
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