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O. C. D.
ARTESIA, OFFICE

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

Form C-122
Revised 9-1-65

Type Test		☒ Initial		☐ Annual		☐ Special		Test Date		8-29-84	
Company				Hamon Oil Company				To Air			
Field				Wildcat				Atoka			
Completion Date		8-20-84		Depth		11,940'		Perforations		10,955'	
Casing Size		5 1/2"		Set At		11,940'		Perforations		10,556 To 10,643	
Tubg. Size		2 3/8"		Set At		10,475'		Perforations		OPEN-ENDED	
Type Well - Single - Gradient - G.C. or P.C. Multiple				Single				Eddy			
Producing Thru		Tubing		Reservoir Temp. °F		178°		Leak Annual Temp. °F		60°	
10,400'		10,400'		Gg		0.6272		% CO ₂		0.533	
				% N ₂		0.653		% H ₂ S		13.2	
				Prover		4"		Meter Run		Flange	

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							4690	73°	PKR	CHOKE	24 Hrs.
1.	4	x	1.500	660	5.0	77°	4307	71		6/64	1 Hr.
2.	4	x	1.500	690	15.0	78	3735	70		8/64	1 Hr.
3.	4	x	1.500	660	27.0	78	2934	68		10/64	1 Hr.
4.	4	x	1.500	660	37.0	79	1989	69		13/64	1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hr.)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.84	59.02	673.2	.9840	1.263	1.059	828
2	10.84	102.70	703.2	.9831	1.263	1.062	1468
3	10.84	134.82	673.2	.9831	1.263	1.059	1922
4	10.84	157.82	673.2	.9822	1.263	1.059	2248
5							

NO.	P _t	Temp. °F	T _p	Z	Gas-Liquid Hydrocarbon Ratio	Mcf/bbl.
1	1.00	537	1.46	.892	117.138	
2	1.05	538	1.46	.887	54.2 @ 60°	
3	1.00	538	1.46	.892	.6272	
4	1.00	539	1.46	.892	.670	
5					368	

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1	5470.2	4369.5	19052.7	3027.4	2.963	1.721
2	4850.2	3828.1	14654.0	7466.1		
3	3917.2	3036.4	9219.8	12900.3		
4	2735.2	2095.8	4392.5	17727.6		
5	5877.2	SIP				

Post F.D. 2
9-14-84
Bump Atk.

Absolute Open Flow		2,527		Mcf/d @ 15.025		Angle of Slope		63.5°		Slope, n		.500			
Remarks: 2.3 Bbls. Condensate produced during the test.															
* BHP Bombs set @ 10,400'															
Approved By Commission:				Conducted By: W.S.				Calculated By: R.P.				Checked By: R.P.			