

N. MEXICO OIL CONSERVATION COMM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

MAR 08 1983

Type Test ☒ Initial ☐ Annual ☐ Special				Date: 3-2-83		MAR 08 1983	
Company Gulf Oil, Explor. & Prod. Corp.				Connection Air		O.C.D.	
Field Spring Atoka				Formation Atoka		ARTESIA, OFFICE	
Completion Date 3-2-83		Total Depth 12721		Flag Hole Top 12641		Elevation 7030' GH	
Casing Size 5"		Set At 12721		Perforations From 11458 To 11540		Well No. 1	
Tubing Size 2-3/8"		Set At 11386		Perforations From To		Unit F	
Type Well - Single - Brokenhead - G.G. or G.O. Multiple Single				Packer Set At 11386		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 188 @ 11386		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
11386		11386		.5775		N.M.	
L		H		G _g		Prover	
11386		11386		.5775		Meter Run 4"	
				.785		Type 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							4475				30hrs
1.	4 x 3.000			725	4.0	92	4250				1hr
2.	4 x 3.000			730	7.0	83	4100				1hr
3.	4 x 3.000			720	14.5	64	3800				1hr
4.	4 x 3.000			720	25.0	80	3250				1hr
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, Mhd
1	51.64	54.34	738.2	.9706	1.315	1.048	3753
2	51.64	72.13	743.2	.9786	1.315	1.052	5042
3	51.64	103.11	733.2	.9962	1.315	1.058	7380
4	51.64	135.39	733.2	.9813	1.315	1.052	9491
5							

NO.	P _t	Temp. °R	T _r	Z	C
1	1.10	552	1.58	.911	
2	1.11	543	1.55	.904	
3	1.09	524	1.50	.894	
4	1.09	540	1.54	.904	
5					

Gas Liquid Hydrocarbon Ratio <u>Dry</u>		Mcf/Lbl.	
A.P.I. Gravity of Liquid Hydrocarbons		Deg.	
Specific Gravity Separator Gas <u>.5775</u>		X X X X X X X X	
Specific Gravity Flowing Fluid <u>X X X X X</u>		X X X X X X X X	
Critical Pressure <u>672</u>		P.S.I.A.	
Critical Temperature <u>350</u>		R	
P _c <u>4488.2</u>		P _c ² <u>20143.9</u>	

NO.	P _t	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.216$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.049$
1		4338.4	18821.7	1322.2		
2		4231.3	17903.9	2240.0		
3		4073.9	16596.7	3547.2		
4		3725.5	13879.4	6264.5		
5						

Absolute Open Flow <u>19,443</u>		Mhd @ 15.025		Angle of Slope @ <u>58.5</u>		Slope, n <u>.614</u>	
Remarks:							
Approved By: _____		Conducted By: <u>Davis Services, Inc.</u>		Calculated By: <u>Rick Pagan</u>		Checked By: _____	

Post ID-2
4-1-83
Camp. & BH