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C-122

Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
AUG 28 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 8-5-75	
Company: David Fasken		Connection: None			
Pool: Cemetery Morrow		Formation: Morrow			
Completion Date: 8-1-75	Total Depth: 9800	Plug Back TD: 9646	Elevation: 3526' GR	Farm or Lease Name: Feil Federal	
Csg. Size: 4 1/2 / Wt.: 11.60 / d: 4.00 / Set At: 9720		Perforations: From 9384 To 9396		Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: 6.50 / d: 2.441 / Set At: 9100		Perforations: From To		Unit: D / Sec.: 28 / Twp.: T-20S / Rge.: R-25E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9100		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 169 @ 9075	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
.9390	9390	0.600				Pos. ck.		

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	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	Duration of Flow
SI			2939					Pkr		
1.	2 7/8	x 8/64"	2701		81	2701	81	"		1 hr.
2.	"	x 9/64"	2646		82	2646	82	"		"
3.	"	x 11/64"	2458		84	2458	84	"		"
4.	"	x 16/64"	1717		86	1717	86	"		"
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, Mcfd
1	0.2618		2714.2	.9804	1.291	1.132	1018.1
2.	0.3346		2659.2	.9795	1.291	1.133	1274.8
3.	0.5090		2471.2	.9777	1.291	1.132	1797.2
4.	1.1120		1730.2	.9759	1.291	1.114	2700.3
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	4.05	541	1.51	.781
2.	3.96	542	1.51	.779
3.	3.68	544	1.52	.780
4.	2.58	546	1.53	.806
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.600 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 358 R _____ R

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

P_f 3693.2 P_f^2 13640

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		3416.2	11670	1970
2		3343.2	11177	2463
3		3113.2	9692	3948
4		2230.2	4974	8666
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.57397$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.349379$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3644$

8-29-75

Absolute Open Flow 3644 Mcfd @ 15.025 | Angle of Slope θ 56° 33' | Slope, n 0.660591

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 12468N 0-6000 psi

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	G. W. Taylor	