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L-122

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
JUL 24 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-18-75	
Company: David Fasken		Connection: Unconnected			
Pool: ~~Undes.~~ - Avalon Morrow		Formation: Morrow		Unit	
Completion Date: 6-10-75	Total Depth: 11212		Plug Back TD: 11131	Elevation: 3199 KB	Farm or Lease Name: Lake Federal
Csg. Size: 4 1/2 / Wt.: 11.60 / 13.50 / d: 4.000 / 3.920 / Set At: 11196			Perforations: From 10817 To 10836		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.50 / d: 2.441 / Set At: 10627			Perforations: From To		Unit: U / Sec.: 3 / Twp.: 21S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10627		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 188 @ 10600	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
10826	10826	0.600				Pos. Ck.		

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI	140¼ hrs		3127			3127		Pkr.		
1.	2"	x 8/64	3072		82	3072	82	"		1 Hr.
2.	2"	x 9/64	3022		76	3022	76	"		1 Hr.
3.	2"	x 11/64	2920		87	2920	87	"		1 Hr.
4.	2"	x 13/64	2810		87	2810	87	"		1 Hr.
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		3085.2	0.9795	1.291	1.119	1142.9
2.	0.3346		3035.2	0.9850	1.291	1.124	1451.6
3.	0.5090		2933.2	0.9750	1.291	1.119	2102.9
4.	0.7208		2823.2	0.9750	1.291	1.123	2876.5
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	4.60	542	1.51	.798
2.	4.52	536	1.50	.791
3.	4.37	547	1.53	.798
4.	4.21	547	1.53	.793
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

P_f 4050.2 P_f^2 16404

NO	P_t^2	P_s	P_c^2	$P_f^2 - P_s^2$
1		3962.2	15699	705
2		3895.2	15173	1231
3		3769.2	14207	2197
4		3641.2	13258	3146
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.21424$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.30639$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 9511$

posted 4-25-75

Absolute Open Flow 9511 Mcfd @ 15.025 | Angle of Slope θ 54° 5' | Slope, n 0.72415

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 31203 0-6000 psi

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.		