NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUN 5 1973
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 5-22-73	
Company: Great Western Drilling Company		Connection: None			
Pool: R-4734 ~~Undesignated~~ Cooky Range Morrow		Formation: Morrow		Unit	
Completion Date: 5-19-73	Total Depth: 9456	Plug Back TD: 9423	Elevation: 4301 GL	Farm or Lease Name: Cawley Draw	
Csg. Size: 5 1/2 / Wt.: 17 / d: / Set At: 9456		Perforations: From 9086 To 9120		Well No.: 1	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 9086		Perforations: From To		Unit: -B / Sec.: 4 / Twp.: 22-S / Rge.: 22-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9038		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 170 @ 9000	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9038	9039		.75	.27	Nil		4.026	Flange

	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	39 hrs.					2731	74			
1.	4.026	X 1.750	600	4	86	2690	73			60 min.
2.	"	"	630	9	78	2530	71			60 min.
3.	"	"	640	28	63	2312	71			60 min.
4.	"	"	600	61	70	2096	71			60 min.
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	14.93	49.53	613.2	0.9759	1.286	1.076	997
2	14.93	76.08	643.2	0.9831	1.286	1.077	1547
3	14.93	135.24	653.2	0.9971	1.286	1.080	2794
4	14.93	193.40	613.2	0.9905	1.286	1.081	3976
5							

NO.	P_r	Temp. °R	T_r	Z
1	4.523	533	1.709	.864
2	4.396	531	1.709	.862
3	4.087	531	1.709	.857
4	3.801	531	1.709	.855
5				

Gas Liquid Hydrocarbon Ratio 133 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 56.2 Deg.
Specific Gravity Separator Gas 0.6053 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.627
Critical Pressure 669 P.S.I.A. 13.2 P.S.I.A.
Critical Temperature 340 R R

P_c 2828.2 P_c^2 7998

NO	P_c^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2721.2	7404	594
2		2644.2	6991	1007
3		2458.2	6042	1956
4		2285.2	5221	2777
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.880$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.6886$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10,690$

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SEP 26 '73

Absolute Open Flow 10,690 Mcfd @ 15.025 | Angle of Slope θ 47 | Slope, n .935

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Richard Stone	Richard Stone	