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C-122

NEW MEXICO OIL CONSERVATION COMMSSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
MAY 17 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 4-22-74	
Company: Kewanee Oil Company		Connection: --			Unit
Pool: Red Lake Penn		Formation: Morrow			
Completion Date: 4-22-74	Total Depth: 9360'	Plug Back TD: 9305'	Elevation: 3287 G. L.	Farm or Lease Name: Kaiser Comm	
Csg. Size: 5-1/2 / Wt.: 15.5 / 17 / d: 4.950 / 4.892 / Set At: 9354'		Perforations: From 9094' To 9193'		Well No.: 1	
Tbg. Size: 2-3/8 / Wt.: 4.7 / d: 1.995 / Set At: 8997'		Perforations: From To		Unit: C / Sec.: 18 / Twp.: 18S / Rge.: 27E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 8979'		County: Eddy	
Producing Thru: Tbg.	Reservoir Temp. °F: 138 @ 9355	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
8997	8997	0.590	0.56	0.44	0		4"	FLG.

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3010		PKR		72
1.	4 x 2.50	840	11	82	2504				1
2.	4 x 2.50	600	20	82	2308				1
3.	4 x 2.50	600	28	83	2084				1
4.	4 x 2.50	600	38	86	1530				1
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	32.64	96.88	853.2	0.9795	1.302	1.061	4279
2.	32.64	110.74	613.2	0.9795	1.302	1.044	4812
3.	32.64	131.03	613.2	0.9786	1.302	1.044	5689
4.	32.64	152.65	613.2	0.9759	1.302	1.043	6603
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	1.26	542	1.54	0.889
2.	0.91	542	1.54	0.918
3.	0.91	543	1.54	0.918
4.	0.91	546	1.55	0.920
5.				

Gas Liquid Hydrocarbon Ratio 445 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 53.3 @ 101° Deg.
Specific Gravity Separator Gas 0.590 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 676 P.S.I.A. P.S.I.A.
Critical Temperature 353 R R

P_c 3764.2 P_c^2 1416.9

NO	P_t^2	P_w	R_w^2	$P_c^2 - R_w^2$
1		3294.2	1085.2	331.7
2		3088.2	953.7	463.2
3		2888.2	834.2	582.7
4		2313.2	535.1	881.8
5				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 4.272$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 1.925$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 8237$

Absolute Open Flow 8,237 Mcfd @ 15.025 Angle of Slope @ 24° 17' Slope, n 0.457

Remarks: Four-point test ran with BHP bomb set @ 9210. Produced 2 bbls. condensate.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Don Van Meter	Le Roy England	LeRoy England