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C-122

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

1)

RECEIVED
JAN 19 1976
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12-1-75	
Company: Depco, Inc.				Connection	
Pool: ~~Und.~~ Red Lake Penn				Formation: Morrow	Unit
Completion Date: 11-26-75	Total Depth: 9640		Plug Back TD: 9550	Elevation: 3290 Gr.	Farm or Lease Name: Terry Evans Communitized
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 9640			Perforations: From 9250 To 9258		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 9227			Perforations: From Open Ended To		Unit: G / Sec.: 24 / Twp.: 18S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9196		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 175 @ 9200	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
.9196	9196	.6255					X	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						3169	72			
1.	3"	x 2"	290	10	78	2962	71			1 hr.
2.	3"	x 2"	290	16	72	2950	72			1 hr.
3.	3"	x 2"	360	28	66	2860	84			1 hr.
4.	3"	x 2"	556	56	46	2610	64			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	21.32		303.2	.9831	1.264	1.026	1,497
2.	21.32		303.2	.9887	1.264	1.027	1,906
3.	21.32		373.2	.9943	1.264	1.034	2,832
4.	21.32		569.2	1.014	1.264	1.062	5,181
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.45	538	1.47	.950
2.	.45	532	1.45	.948
3.	.55	526	1.44	.936
4.	.84	506	1.38	.887
5.				

Gas Liquid Hydrocarbon Ratio 36.6 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas .6255 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX ____
Critical Pressure 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature 365 R ____ R

P_f 3865.2 P_f^2 14,940

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		3838.2	14,732	208
2		3821.2	14,602	338
3		3750.2	14,064	876
4		3532.2	12,476	2464
5				

(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 6.063$ (2) $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n = 2.476$

AOF = Q $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n = 12,827$

posted 1-23-76 CH

Absolute Open Flow 12,827 Mcfd @ 15.025 Angle of Slope θ 63.3 Slope, n .503

Remarks: Bottom Hole Pressure was recorded @ 9200' with an Amerada RPG-3 Instrument No. 34923 (0-10,000 PSI Range)

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tom Hanson Co.	Harrington	