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File

NEW MEXICO OIL CONSERVATION COMMSSION — SEP 29 1977 — RECEIVED

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

SEP 29 1977

Form C-122
Revised 10-1-65

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 9-22-77	SPUD DATE: NOT AVAILABLE
Company: Mondo Drilling Company		Connection: El Paso Natural Gas Company			
Pool: ~~Wildcat~~ N. Turkey Track Cisco		Formation: Cisco			Unit: G
Completion Date: 9-22-77	Total Depth: ~~11,295~~ 11311		Plug Back TD: 11,022	Elevation:	Farm or Lease Name: Alscott ~~Federal~~
Csg. Size: 5½	Wt.: 17	d:	Set At: 11,238	Perforations: From 9513 To 9548	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 9472	Perforations: From open To end	Unit: G; Sec.: 31; Twp.: 18S; Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9472		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 169 @ 9472	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
9472	9472	.704					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					1232		Shut-in		72 hr.
1.	4 x 1.250	489	5.3	90	1142				1 hr.
2.	4 x 1.250	490	14.4	92	1065				1 hr.
3.	4 x 1.250	490	31.9	84	970				1 hr.
4.	4 x 1.250	490	48.6	78	790				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	7.469	51.59	502.2	.9723	1.192	1.051	469
2	7.469	85.04	502.2	.9706	1.192	1.050	772
3	7.469	126.70	503.2	.9777	1.192	1.053	1161
4.	7.469	148.12	503.2	.9831	1.192	1.056	1369
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.775	550	1.40	.935
2	.775	552	1.41	.927
3	.775	554	1.39	.923
4.	.775	558	1.37	.896
5.				

Gas Liquid Hydrocarbon Ratio: 125 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 70.4 @ 60 Deg.
Specific Gravity Separator Gas: .704 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX G Mix - .724
Critical Pressure: 668 P.S.I.A. 668 P.S.I.A.
Critical Temperature: 392 R 398 R

P_c 724.2 P_c^2 524.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			1341.2	209.3
2			1338.0	362.5
3			1002.3	521.2
4			705.8	943.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 2.865 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.670

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 3,100

3,100 Mcf/D Angle of Slope θ 47 Slope, n .933

Calculated By: Checked By: