15-077-20172
19-34s-9w

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company McCoy Petroleum Company Lease & Well No. Cummings #1

Elevation 1275 Derrick Floor Formation Mississippian Effective Pay Ft. Ticket No. 16979

Date 12-17-72 Sec. 19 Twp. 34S Range 9W County Harper State Kansas

Test Approved by Roger McCoy Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun Interval Tested From 4584' to 4610' Total Depth 4610'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 4579 Ft. Size 6 3/4" Packer Depth 4584 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 24 Ft. Size 5 1/2" O.D.

RECORDERS Depth 4602 Ft. Clock No. 10412 Depth 4605 Ft. Clock No. 8474

Top Make Kuster Cap 4200 No. 3354 Inside ~~Outside~~ Bottom Make Kuster Cap 4150 No. 969 ~~Inside~~ Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap No. Inside Outside Bottom Make Cap No. Inside Outside

Time Set Packer 3:12 A.M

Tool Open I.F.P. From 3:15 M. to 3:45A. M Hr. 30 Min. From (B) 160 P.S.I. To (C) 167 P.S.I.

Tool Closed I.C.I.P. From 3:45 M. to 4:30A. M Hr. 45 Min. (D) 1938 P.S.I.

Tool Open F.F.P. From 4:30 M. to 5:30A.M Hr. 60 Min. From (E) 151 P.S.I. To (F) 163 P.S.I.

Tool Closed F.C.I.P. From 5:30 M. to 6:30A.M Hr. 60 Min. (G) 1917 P.S.I.

Initial Hydrostatic Pressure (A) 2493 P.S.I. Final Hydrostatic Pressure (H) 2477 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	1 1/4 In.		M.	
See sheet attached			M.	
			M.	

BLOW Strong thruout test - Gas to surface 2 minutes Bottom Choke Size 3/4 In.

Did Well Flow Gas Yes No Recovery Total Ft. 45 feet gas cut mud

Reversed Out Yes X No Mud Type Salt Viscosity 50 Weight 9.7 Water Loss 12.8 cc. Maximum Temp. 125 °F

Type Circ. Sub Pin Safety Joint No Jars: Size Make Ser. No.

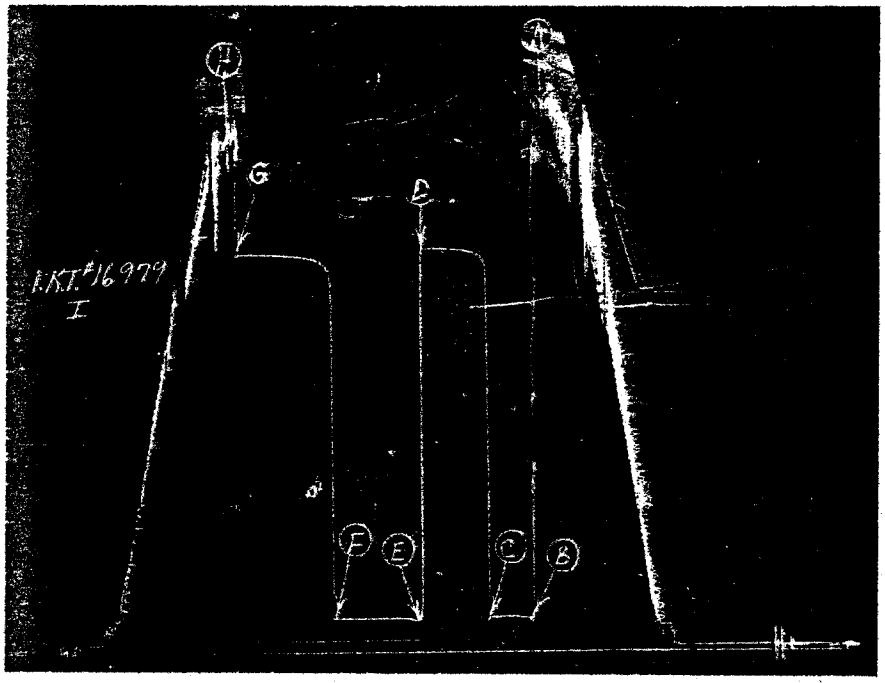
EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where?

Length Drill Pipe 4356 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 210 ft.

I.D. Drill Collars 2 1/4 in. Length D.S.T. Tool 44 ft.

Remarks Gas stablized @ 875,000 CFPD @ 5:00 to 5:30 A.M.
Took gas sample bottle #619

FORM WTC 3



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2483	2493	PSI
(B)	First Initial Flow Pressure	168	160	PSI
(C)	First Final Flow Pressure	179	167	PSI
(D)	Initial Closed-in Pressure	1953	1938	PSI
(E)	Second Initial Flow Pressure	168	151	PSI
(F)	Second Final Flow Pressure	179	163	PSI
(G)	Final Closed-in Pressure	1932	1917	PSI
(H)	Final Hydrostatic Mud	2461	2477	PSI

WESTERN TESTING CO., INC.
GREAT BEND, KANSAS 67530
(316) 793-7903

FIELD EVALUATIONS

Ticket No. 16979

Date 12-17-72

To McCoy Petroleum Co.
502 Union Center
Wichita, Kansas 67202

WELL FILE

We Give Below Results of Drill Stem Evaluation

Lease Cummings #1 Sec. 19 Twp. 34S Rge. 9W

County Harper Test Interval 4584' - 4610'

		FINAL
P.S.I. Slope Cycle	$M = \frac{Pisi - Pfsi}{\text{Log } \frac{T + t}{t}}$	54
Damage Ratio	$DR = .183 \frac{Ps - Pf}{M}$	6.02
Production	$Q = \frac{1440\ R}{t}$	875,000 CFPD ~~Bbls./Hr.~~ ~~=Bbls./Day~~
Effective Pay	$K_1 = \frac{Kh}{hl}$	72.72 Md. Ft.
Theoretical Potential With Damage Removed	$Q_1 = Q\ DR$	5,267,500 CFPD ~~=Bbls./Day~~