MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company PETROLEUM INC.

Lease and Well No. HUFFER #1

County SHERIDAN State KANSAS Date NOV. 15, 1968

Formation Test No. 1 Total Depth 3765' Elev. 2912 DF

Interval Tested 3723' To 3765' Anchor Length 42'

Size Hole 7 7/8 Size Drill Pipe 4 1/2 FH & 4 1/2 XH Size Packer 6 3/4

Mud Weight 9.6 Viscosity 38 Water Loss 10.6 c.c. Bottom Hole Temp. 80 °F

Chokes: Top 1/2 Bottom 1/2 Ticket No. 9283

RECOVERY

VERY WEAK BLOW THROUGHOUT TEST.

90 FEET OF MUD.

Lease and Well No. HUFFER #1 24 7S 30W NE NE NW Formation Test No. 1

COMPANY PETROLEUM INC. DATE NOV. 15, 1968

LEASE HUFFER WELL NO. 1 TEST NO. 1 TICKET NO. 9283

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1908
INITIAL CLOSED IN PRESSURE	30 mins.	1122
INITIAL FLOW	30 mins.	22 to 45
FINAL FLOW	30 mins.	58 to 74
FINAL CLOSED IN PRESSURE	30 mins.	1084
FINAL HYDRO MUD PRESSURE		1897

TOTAL DEPTH 3765

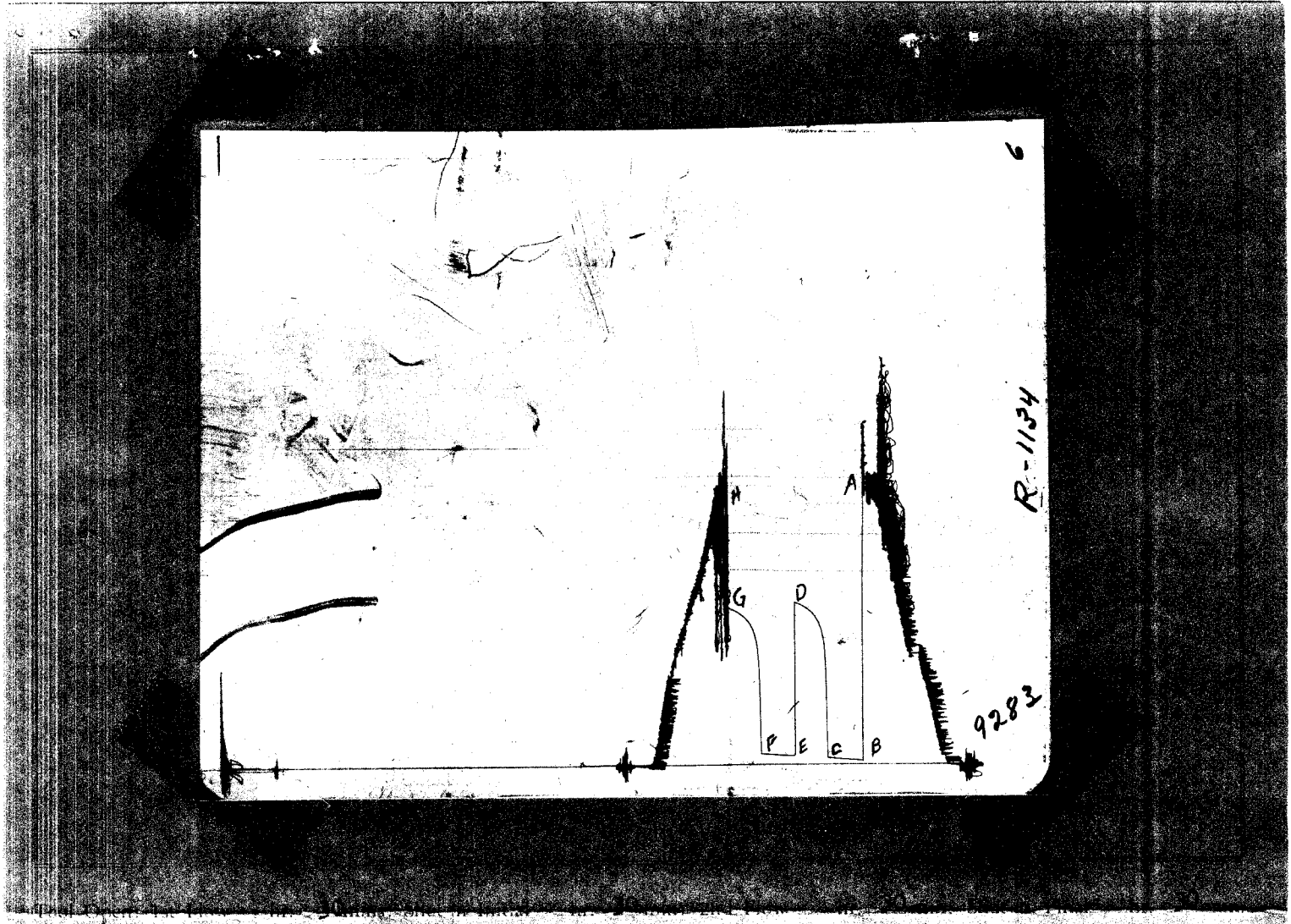
PACKER DEPTH 3723

BT. NO. 1134 DEPTH 3760

1ST FLOW PRESSURE	INITIAL CIP	2ND FLOW PRESSURE	FINAL CIP
22	45	58	74
31	923	60	890
34	1012	63	968
36	1062	65	1015
38	1088	69	1050
40	1109	72	1073
45	1122	74	1084
5 MINUTE INTERVAL	5 MINUTE INTERVAL	5 MINUTE INTERVAL	5 MINUTE INTERVAL

REMARKS

SPECIAL PRESSURE DATA



	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1897	1908
(B) Initial 1st Flow Pressure	22	22
(C) Final 1st Flow Pressure	45	45
(D) Initial Shut-in Pressure	1113	1122
(E) Initial 2nd Flow Pressure	56	58
(F) Final 2nd Flow Pressure	67	74
(G) Final Shut-in Pressure	1091	1084
(H) Final Hydrostatic Pressure	1897	1897

9283

FORMATION TEST DATA

Flow Time	1st Min. 30	2nd Min. 30	Date	11/16/68	Ticket Number	531200 S	
Closed In Press. Time	1st Min. 30	2nd Min. 30	Kind of Job	OPEN HOLE	Halliburton District	HILL CITY	
Pressure Readings	Field	Office Corrected	Tester	A.A. BERENS	Witness	J. JASPERSON	
Depth Top Gauge	3992 Ft.	Blanked Off no	Drilling Contractor	GARVEY DRILLING COMPANY		LC	
BT. P.R.D. No.	228	Hour Clock 12	Elevation	2912' DF	Top Packer	--	
Initial Hydro Mud Pressure	-	2071	Total Depth	4034'	Bottom Packer	3988"	
Initial Closed in Pres.	-	1261	Interval Tested	3988' - 4034'	Formation Tested	Kansas City	
Initial Flow Pres.	- 1	10	Casing or Hole Size	7 7/8"	Casing Top / Perfs. Bot.		
	- 2	48					
Final Flow Pres.	- 1	43	Surface Choke	¼"	Bottom Choke	3/4"	
	- 2	72				I.D. - LENGTH	
Final Closed in Pres.	-	1233	Size & Kind Drill Pipe	4 ½" Ex. Hole	Drill Collars Above Tester	--	
Final Hydro Mud Pressure	-	2044	Mud Weight	10.1	Mud Viscosity	41	
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	°F Est. 4029' @107 °F Actual	Anchor Size & Length	ID 3.75" / OD 5.00" X 46'	
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	-- Ft.	
Initial Hydro Mud Pres.			Cushion	TYPE none AMOUNT Ft.	Depth Back Pres. Valve	-- Ft.	
Initial Closed in Pres.			Recovered	135 Feet of muddy water.			
Initial Flow Pres.	1		Recovered	Feet of			
	2						
Final Flow Pres.	1		Recovered	Feet of			
	2						
Final Closed in Pres.			Recovered	Feet of			
Final Hydro Mud Pres.			Oil A.P.I. Gravity		Water Spec. Gravity		
Depth Bot. Gauge	4030 Ft.	Blanked Off yes	Gas Gravity		Surface Pressure	psi	
BT. P.R.D. No.	690	Hour Clock 12	Tool Opened	7:45 P.M. A.M. P.M.	Tool Closed	9:45 P.M. A.M. P.M.	
Initial Hydro Mud Pres.	-	2098	Remarks	Opened tool for a 30 minute first flow. Took			
Initial Closed in Pres.	1282	1289		a 30 minute initial closed in pressure. Reopened			
Initial Flow Pres.	54 1	38		tool for a 30 minute final flow with weak blow.			
	- 2	75					
Final Flow Pres.	- 1	70		Closed tool for a 30 minute final closed in pres-			
	96 2	99					
Final Closed in Pres.	1258	1262		sure.			
Final Hydro Mud Pres.	-	2072					

Legal Location Sec. - Twp. - Rng.: 24 7S 30W 4pm NE-NE-NW
Lease Name: HUFFER
Well No.: 1
Test No.: 2
Field Area: ---
County: SHERIDAN
State: KANSAS
Lease Owner/Company Name: PETROLEUM INCORPORATED
Owner's District: GREAT BEND

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Gauge No.	228	Depth	3992'	Clock	12 hour	Ticket No.	531200

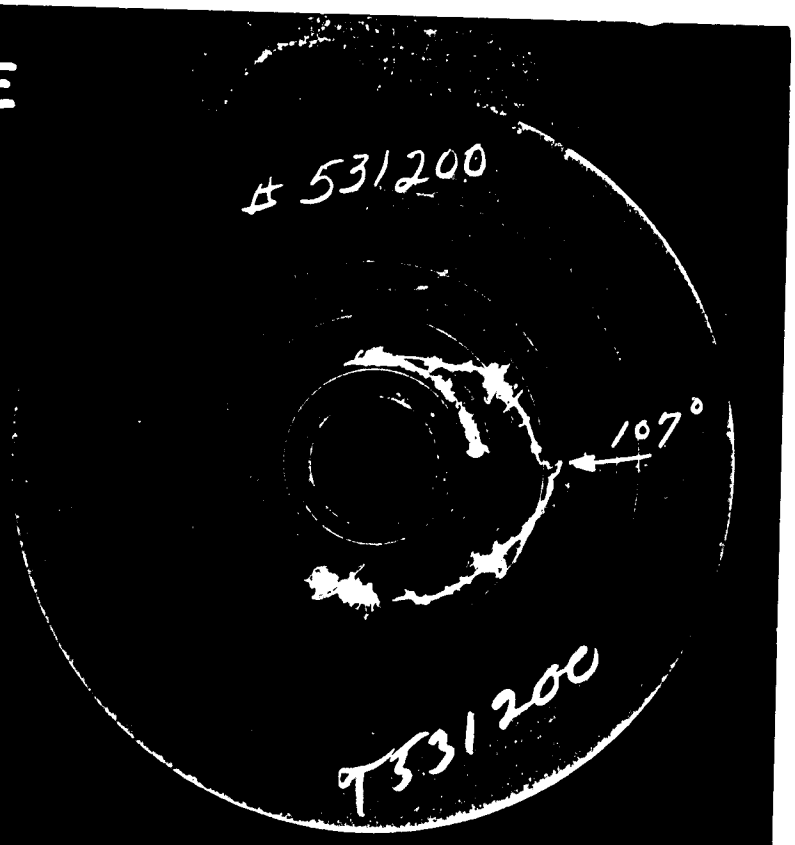
	First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P_0	.000	10	.000		43	.000	48	.000		72
P_1	.0327	18	.0204		1036	.0303	51	.0202		1012
P_2	.0654	23	.0408		1159	.0606	55	.0404		1128
P_3	.0981	29	.0612		1193	.0909	59	.0606		1161
P_4	.1308	34	.0816		1213	.1212	64	.0808		1178
P_5	.1635	38	.1020		1226	.1515	69	.1010		1192
P_6	.1960	43	.1224		1236	.1820	72	.1212		1202
P_7			.1428		1244			.1414		1212
P_8			.1632		1250			.1616		1220
P_9			.1836		1257			.1818		1227
P_{10}			.2040		1261			.2020		1233

Gauge No.	690	Depth	4030'	Clock	12 hour				
P_0	.000	38	.000		70	.000	75	.000		99
P_1	.036	45	.021		1089	.034	77	.0211		1086
P_2	.072	50	.042		1190	.068	82	.0422		1163
P_3	.108	56	.063		1222	.102	86	.0633		1194
P_4	.144	61	.084		1240	.136	91	.0844		1212
P_5	.180	65	.105		1253	.170	95	.1055		1225
P_6	.216	70	.126		1263	.204	99	.1266		1235
P_7			.147		1272			.1477		1244
P_8			.168		1277			.1688		1250
P_9			.189		1284			.1899		1257
P_{10}			.210		1289			.2110		1262
Reading Interval	5		3			5		3		Minutes

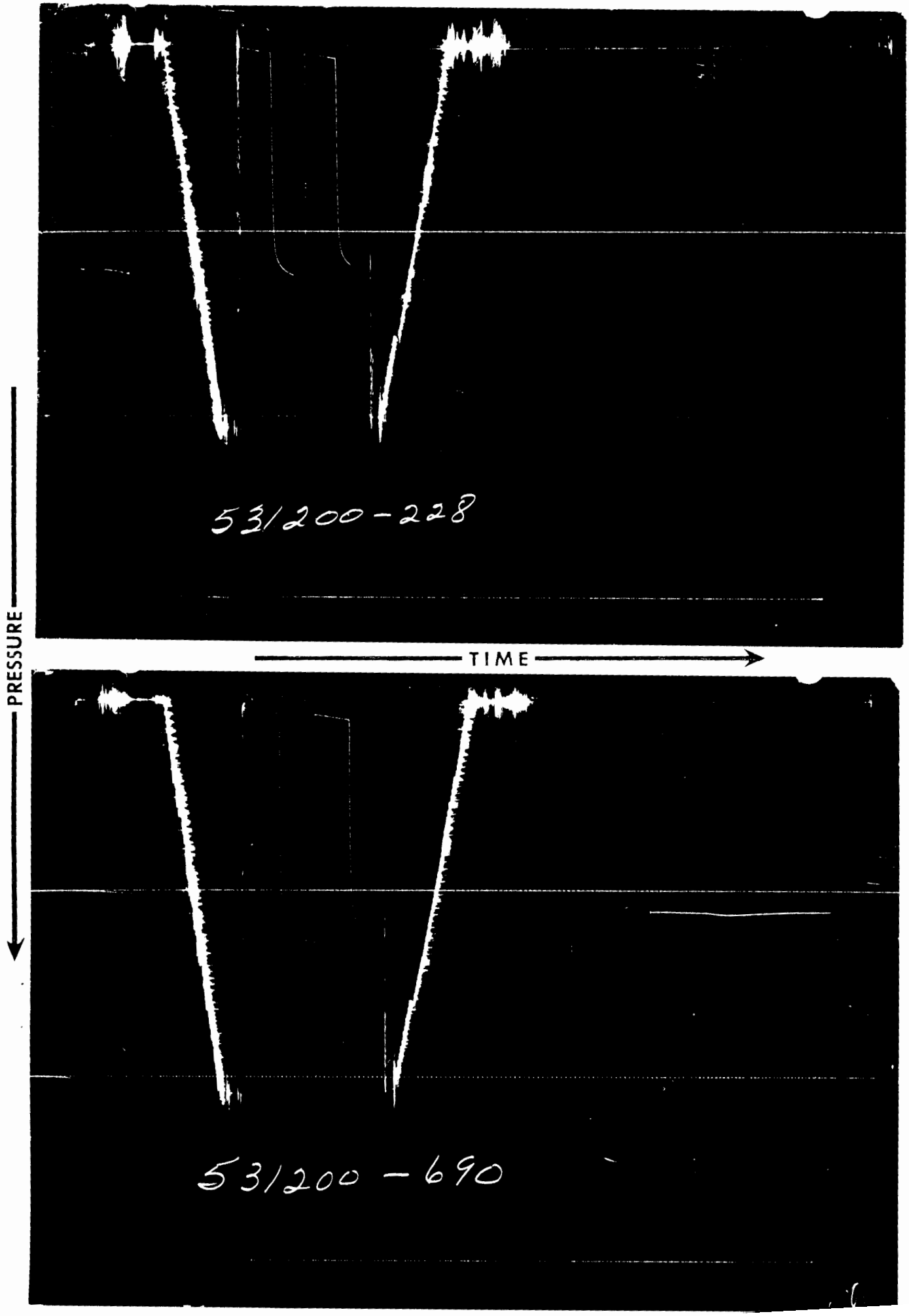
REMARKS:

SPECIAL PRESSURE DATA

TEMPERATURE RECORDER CHART



10° each circle



Each Horizontal Line F

24-7S-30W
Gray NE-NE-NW

GARVEY DRILLING COMPANY

TESTING DIVISION

No. 3230

Company Pet. Inc. Lease & Well No. Hoffer #1

Elevation Ticket Number

Date 11-17-69 Sec. Twp. Range County Sheridan State Kansas

Test Approved by Jerry Jespersen Garvey Representative Doyle Folkerts

Formation Test No. 3 O.K. Misrun X Interval Tested From 4057 to 4090 Total Depth 4090

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

Packer Depth 4051 Ft. Size 6 3/4 Packer Depth 4057 Ft. Size 6 3/4

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

Packer Depth — Ft. Size —

Tool Size 5" Tool Jt. Size 5 1/2" Anchor Length 33 Ft. Size 4 1/2 FH

RECORDERS Depth 4062 Ft. Clock No. 8701 Depth 4066 Ft. Clock No. 118

Top Make Kuster Cap. 4300 No. 2774 Inside — Outside

Bottom Make Western Cap. 4000 No. 51 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 10:38 A.M.

Tool Open I.F.P. From 10:40 M. to 11:10 M. — Hr. 30 Min. From (B) — P.S.I. To (C) — P.S.I.

Tool Closed I.C.I.P. From 11:10 M. to 11:40 M. — Hr. 30 Min. (D) — P.S.I.

Tool Open F.F.P. From 11:40 M. to 12:10 M. — Hr. 30 Min From (E) — P.S.I. To (F) — P.S.I.

Tool Closed F.C.I.P. From 12:10 M. to 12:40 M. — Hr. 30 Min. (G) — P.S.I.

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

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

BLOW Weak Bottom Choke Size 1/4 in.

Did Well Flow — Yes X No. Recovery Total Ft.

Reversed Out — Yes X No Mud Type Chem. Viscosity 41 Weight 10.1 Maximum Temp. °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint NO Jars: Size — Make — Ser. No. —

Type Circ. Sub. Halliburton Did Tool Plug? Yes Where? Foot Did Packer Hold? Yes

Length Drill Pipe 3040 ft. I. D Drill Pipe 3 1/2 in. Length Weight Pipe 1000 ft. I. D. Weight Pipe 2 7/8 in. Length Drill Collars — ft.

I. D. Drill Collars — in. Length D. S. T. Tool 30 ft.

Remarks

WHELAN PRINTERS

GARVEY DRILLING COMPANY

TESTING DIVISION

24-7S-30W
appr NE-NE-NW
No 3231

Company Pet. Inc. Lease & Well No. Hoffer # 1

Elevation Ticket Number

Date 11-17-68 Sec. Twp. Range County Sheridan State Kansas

Test Approved by Jerry Jespersen Garvey Representative Doyle Folkerts

Formation Test No. 3 (1) O.K. — Misrun X Interval Tested From 4057 to 4090 Total Depth 4090

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

Packer Depth 4051 Ft. Size 6 3/4 Packer Depth 4057 Ft. Size 6 3/4

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

Packer Depth — Ft. Size —

Tool Size 5" Tool Jt. Size 5 1/2" Anchor Length 33 Ft. Size 4 1/2 FH

RECORDERS Depth 4062 Ft. Clock No. 8701 Depth 4066 Ft. Clock No. 118

Top Make Kuster Cap. 4200 No. 2774 Inside — Outside — Bottom Make Westren Cap. 4000 No. 51 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 4:28 PM

Tool Open I.F.P. From 5:30 M. to 5:00 M — Hr. 30 Min. From (B) — P.S.I. To (C) — P.S.I.

Tool Closed I.C.I.P. From 5:00 M. to 5:30 M — Hr. 30 Min. (D) — P.S.I.

Tool Open F.F.P. From 5:30 M. to 6:00 M — Hr. 30 Min From (E) — P.S.I. To (F) — P.S.I.

Tool Closed F.C.I.P. From 6:00 M. to 6:30 M — Hr. 30 Min. (G) — P.S.I.

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

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

— M. —

— M. —

— M. —

BLOW — Bottom Choke Size 1/2 in.

Did Well Flow — Yes X No. Recovery Total Ft.

Reversed Out — Yes X No Mud Type Chem Viscosity 42 Weight 10.1 Maximum Temp — °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint NO Jars: Size — Make — Ser. No.

Type Circ. Sub. Halliburton Did Tool Plug? Yes Where? Tool Did Packer Hold? Yes

Length Drill Pipe 3640 ft. I. D Drill Pipe 3 1/2 in. Length Weight Pipe 1000 ft. I. D. Weight Pipe 2 1/2 in. Length Drill Collars — ft.

I. D. Drill Collars — in. Length D. S. T. Tool 50 ft.

Remarks 1-Lusk tool

WHELAN PRINTERS

24-7S-30W
Appr NE-NE-NW

GARVEY DRILLING COMPANY

TESTING DIVISION

No. 3232

Company Pet. Inc. Lease & Well No. Hufker #1

Elevation Ticket Number

Date 11-17-68 Sec. Twp. Range County Sheridan State Kansas

Test Approved by Jerry Vespercen Garvey Representative Doyle Fallbert

Formation Test No. 5 O.K. X Misrun — Interval Tested From 4057 to 4090 Total Depth 4090

Size Main Hole 7⅞ Rat Hole — Conv. X B.T. — Damaged — Yes X No Conv. X B.T. — Damaged — Yes X No.

Packer Depth 4051 Ft. Size 6 3/4 Packer Depth 4057 Ft. Size 6 3/4

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

Packer Depth — Ft. Size —

Tool Size 5" Tool Jt. Size 5½" Anchor Length 33 Ft. Size 4½ FH

RECORDERS Depth 4062 Ft. Clock No. 8701 Depth 4066 Ft. Clock No. 118

Top Make Kuster Cap. 4300 No. 2771 Inside Outside Bottom Make Westco Cap. 4000 No. 51 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 9:53 P M

Tool Open I.F.P. From 9:55 M. to 10:25 M. — Hr. 30 Min. From (B) 34 P.S.I. To (C) 34 P.S.I.

Tool Closed I.C.I.P. From 10:25 M. to 10:55 M. — Hr. 30 Min. (D) 1283 P.S.I.

Tool Open F.F.P. From 10:55 M. to 11:25 M. — Hr. 30 Min From (E) 68 P.S.I. To (F) 68 P.S.I.

Tool Closed F.C.I.P. From 11:25 M. to 11:55 M. — Hr. 30 Min. (G) 1266 P.S.I.

Initial Hydrostatic Pressure (A) 2213 P.S.I. Final Hydrostatic Pressure (H) 2213 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	¼ in.		M.	
			M.	
			M.	

BLOW Weak Bottom Choke Size ¼ in.

Did Well Flow — Yes X No. Recovery Total Ft. 100' Heavy Oil Cut Mud

Reversed Out — Yes X No Mud Type Chem Viscosity 42 Weight 10.1 Maximum Temp. 96 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size — Make — Ser. No. —

Type Circ. Sub Halliburton Did Tool Plug? No Where? — Did Packer Hold? Yes

Length Drill Pipe 3960 ft. I. D Drill Pipe 2¼ in. Length Weight Pipe 1000 ft. I. D. Weight Pipe 2¼ in. Length Drill Collars — ft.

I. D. Drill Collars — in. Length D. S. T. Tool 30 ft.

Remarks

WHELAN PRINTERS

24-7S-30W
appr NE-NE-NW

GARVEY DRILLING COMPANY

TESTING DIVISION

No. 3233

Company Pet. Inc. Lease & Well No. Huffer # 1

Elevation Ticket Number

Date 11-18-68 Sec. Twp. Range County Sheridan State Kansas

Test Approved by Jerry Jespersen Garvey Representative Doyle Folkerts

Formation Test No. 6 O.K. X Misrun — Interval Tested From 4119 to 4180 Total Depth 4180

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

Packer Depth 4113 Ft. Size 6 3/4 Packer Depth 4119 Ft. Size 6 3/4

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

Packer Depth — Ft. Size —

Tool Size 5" Tool Jt. Size 5 1/2" Anchor Length 61 Ft. Size 4 1/2 FH

RECORDERS Depth 4124 Ft. Clock No. 8701 Depth 4127 Ft. Clock No. 118

Top Make Kuster Cap. 4300 No. 2774 Inside / Outside Bottom Make Kuster Cap. 4000 No. 51 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 7:18 P M

Tool Open I.F.P. From 7:20 M. to 7:50 M. — Hr. 30 Min. From (B) 11 P.S.I. To (C) 11 P.S.I.

Tool Closed I.C.I.P. From 7:50 M. to 8:20 M. — Hr. 30 Min. (D) 45 P.S.I.

Tool Open F.F.P. From 8:20 M. to 8:50 M. — Hr. 30 Min From (E) 23 P.S.I. To (F) 23 P.S.I.

Tool Closed F.C.I.P. From 8:50 M. to 9:20 M. — Hr. 30 Min. (G) 34 P.S.I.

Initial Hydrostatic Pressure (A) 2224 P.S.I. Final Hydrostatic Pressure (H) 2213 P.S.I.

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

— M. —

— M. —

— M. —

BLOW Weak 15 Min, Died Bottom Choke Size 1/2 in.

Did Well Flow — Yes X No. Recovery Total Ft. 10' Mud

Reversed Out — Yes X No Mud Type Chem Viscosity 43 Weight 10. Maximum Temp. 80 °F

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Jars: Size — Make — Ser. No. —

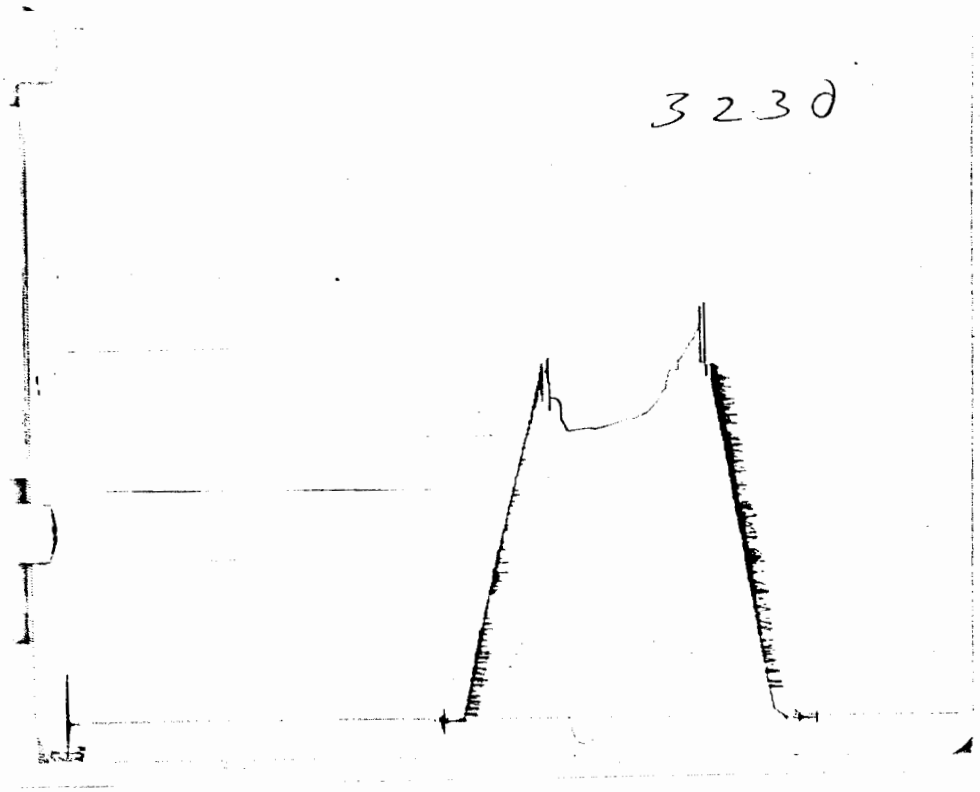
Type Circ. Sub Hall Burton Did Tool Plug? No Where? — Did Packer Hold? Yes

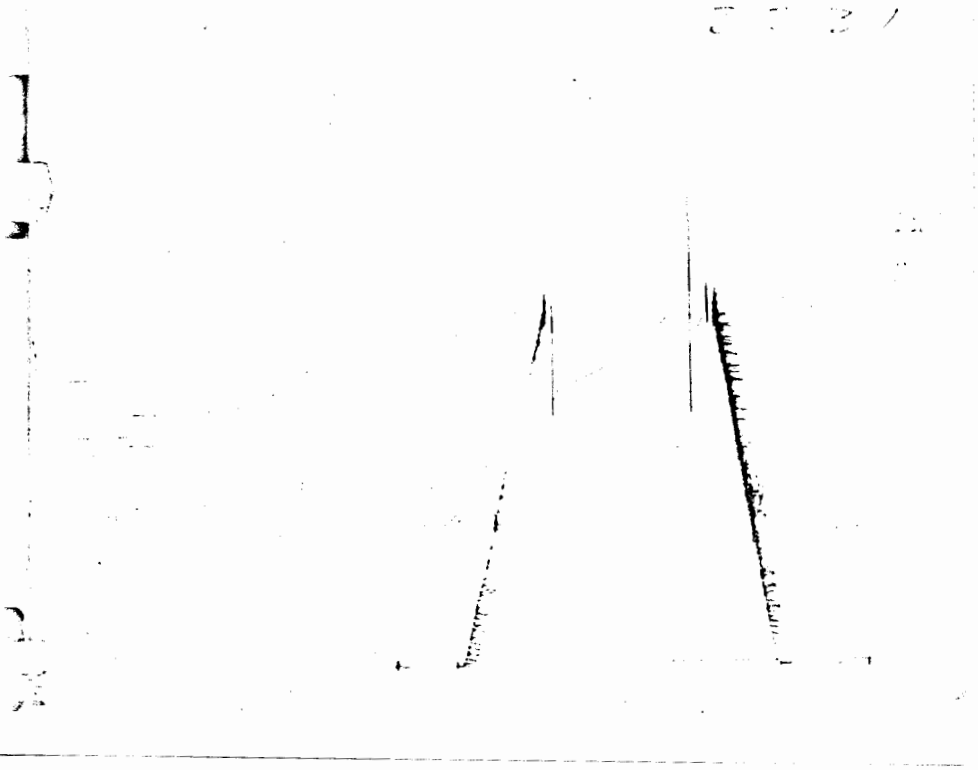
Length Drill Pipe 3096 ft. I. D Drill Pipe 3 1/2 in. Length Weight Pipe 1000 ft. I. D. Weight Pipe 2 1/2 in. Length Drill Collars — ft.

I. D. Drill Collars — in. Length D. S. T. Tool 84 ft.

Remarks

WHELAN PRINTERS


3230



3232



3233

