WESTERN TESTERS

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

Company Adair Oil Co. Lease & Well No. Isern # 1

Elevation 2218 Kelly Bushing Formation Mississippian Effective Pay 5 Ft. Ticket No. 11501

Date 5-18-68 Sec. 13 Twp. 20 Range 21w County Ness State Kansas

Test Approved by Sherrill Compton Western Representative Guy M. Knipe

Formation Test No. 1 O.K. X Misrun Interval Tested From 4344' to 4369' Total Depth 4369'

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 4339 Ft. Size 6 3/4 Packer Depth 4344 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"Od Tool Jt. Size 4½"FH Anchor Length 25 Ft. Size 5½"OD

RECORDERS Depth 4361 Ft. Clock No. 8475 Depth 4364 Ft. Clock No. 6800

Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4200 No. 1051 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 7:28 A. M

Tool Open I.F.P. From 7:30 M. to 8:00 A M. Hr. 30 Min. From (B) 10 P.S.I. To (C) 19 P.S.I.

Tool Closed I.C.I.P. From 8:00 M. to 8:30 A M. Hr. 30 Min. (D) 320 P.S.I.

Tool Open F.F.P. From 8:30 M. to 9:00 A M. Hr. 30 Min. From (E) 30 P.S.I. To (F) 30 P.S.I.

Tool Closed F.C.I.P. From 9:00 M. to 9:30 A M. Hr. 30 Min. (G) 151 P.S.I.

Initial Hydrostatic Pressure (A) 2364 P.S.I. Final Hydrostatic Pressure (H) 2337 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Few bubbles -died. Flushed tool at 15 minutes, few bubbles-died. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 15 feet drilling mud.

Reversed Out Yes X No Mud Type starch Viscosity 44 Weight 9.8 Water Loss 11.2 cc. Maximum Temp. 117 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe 3224 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1099 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 46 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 5-18-68 Test Ticket No. 11501

Recorder No. 2604 Capacity 8475 Location 4361 Ft.

Clock No. 2604 Elevation 2218 Kelly Bushing Well Temperature 117 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2364	P.S.I.	Opened Tool	7:28 AM	
B	First Initial Flow Pressure	10	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	19	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	320	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	30	P.S.I.	Final Closed-in Pressure	30 Mins.	29 Mins.
F	Second Final Flow Pressure	30	P.S.I.			
G	Final Closed-in Pressure	151	P.S.I.			
H	Final Hydrostatic Mud	2337	P.S.I.			

PRESSURE BREAKDOWN

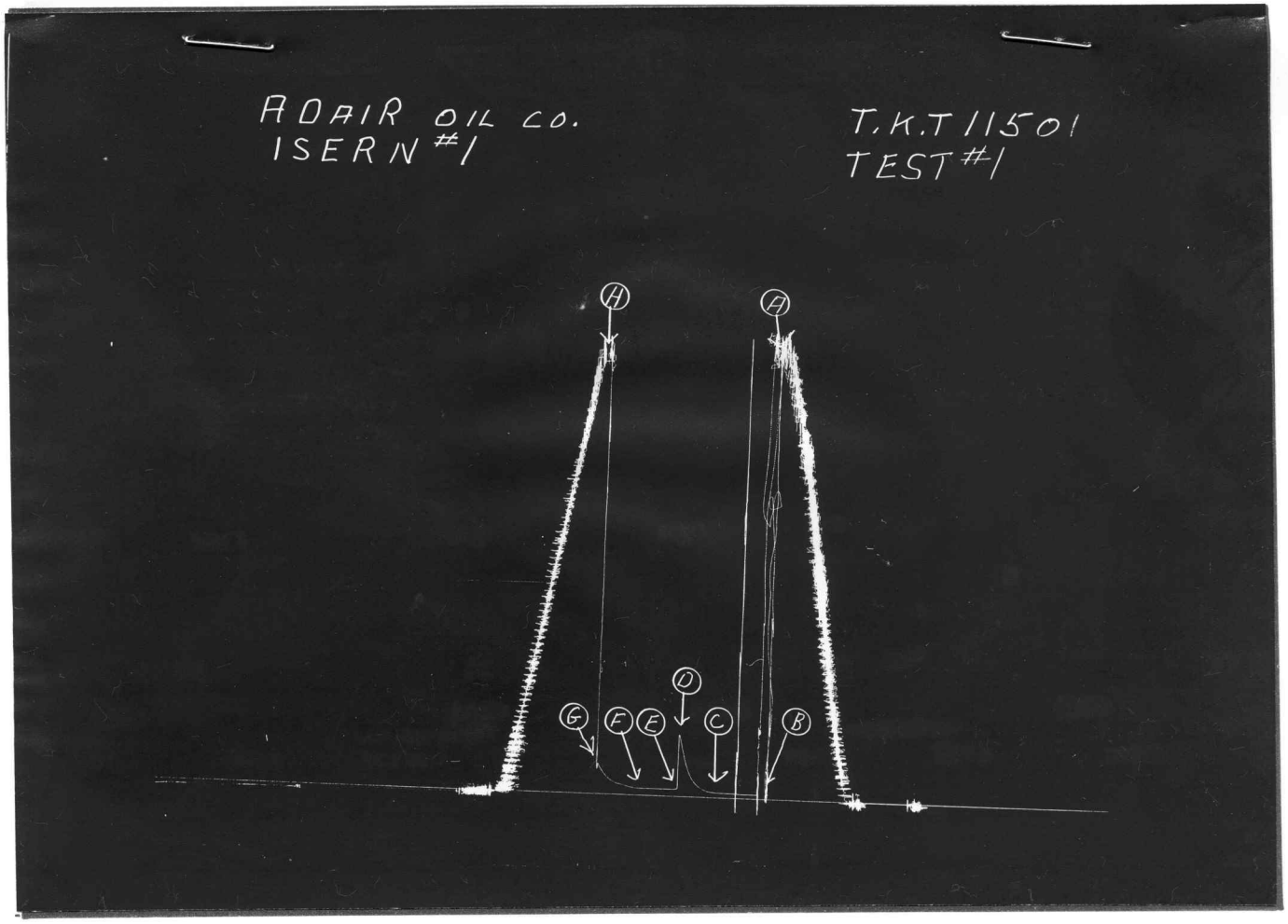
First Flow Press.
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of -- Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of -- Min.

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of -- Min.

Final Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 2 Min.

Point	First Flow Press. Mins.	First Flow Press. Press.	Initial Shut-In Minutes	Initial Shut-In Press.	Second Flow Pressure Minutes	Second Flow Pressure Press.	Final Shut-In Minutes	Final Shut-In Press.
P 1	0	10	0	19	0	30	0	30
P 2	5	10	3	25	5	30	3	34
P 3	10	10	6	32	10	30	6	38
P 4	15	10	9	38	15	30	9	43
P 5	20	19	12	55	20	30	12	49
P 6	25	19	15	81	25	30	15	60
P 7	30	19	18	134	30	30	18	74
P 8			21	219			21	96
P 9			24	284			24	123
P10			27	320			27	143
P11							29	151
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2369	2364	PSI
(B)	First Initial Flow Pressure	10	10	PSI
(C)	First Final Flow Pressure	17	19	PSI
(D)	Initial Closed-in Pressure	320	320	PSI
(E)	Second Initial Flow Pressure	31	30	PSI
(F)	Second Final Flow Pressure	34	30	PSI
(G)	Final Closed-in Pressure	138	151	PSI
(H)	Final Hydrostatic Mud	2348	2337	PSI

Home Office: Great Bend, Kansas
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Company Adair Oil Co. Lease & Well No. Isern #1

Elevation 2218 Kelly Bushings Formation Mississippian Effective Pay 13 Ft. Ticket No. 11502

Date 5-18-68 Sec. 13 Twp. 20 Range 21w County Ness State Kansas

Test Approved by Sherrill Compton Western Representative Guy M. Knipe

Formation Test No. 2 O.K. x Misrun Interval Tested From 4364' to 4377' Total Depth 4377'

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 4359' Ft. Size 6 3/4 Packer Depth 4364 Ft. Size 6 3/4

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

Packer Depth Ft. Size

Tool Size 5½"OD Tool Jt. Size 4½"FH Anchor Length 13 Ft. Size 5½"OD

RECORDERS Depth 4369 Ft. Clock No. 8475 Depth 4372 Ft. Clock No. 6800

Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4200 No. 1051 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 6:12 P. M

Tool Open I.F.P. From 6:15 M. to 6:45 P M. Hr. 30 Min. From (B) 25 P.S.I. To (C) 45 P.S.I.

Tool Closed I.C.I.P. From 6:45 M. to 7:15 P M. Hr. 30 Min. (D) 1323 P.S.I.

Tool Open F.F.P. From 7:15 M. to 8:45 P M. 1 Hr. 30 Min. From (E) 62 P.S.I. To (F) 132 P.S.I.

Tool Closed F.C.I.P. From 8:45 M. to 9:15 P M. Hr. 30 Min. (G) 1261 P.S.I.

Initial Hydrostatic Pressure (A) 2373 P.S.I. Final Hydrostatic Pressure (H) 2350 P.S.I.

SURFACE INFORMATION	Size Choke	Max. Press. P.S.I.	Time	Description of Flow
	3/4 In.		M.	
			M.	
			M.	

BLOW Weak increased to good 5 inch blow. Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 40 feet clean oil; 124 feet slightly muddy oil; 62 feet heavily mud cut oil; 62 feet heavy oil cut mud. Oil 34° gravity corrected.

Reversed Out Yes x No Mud Type starch Viscosity 47 Weight 10. Water Loss 13 cc. Maximum Temp. 118 °F

Type Circ. Sub. plug Did Tool Plug? no Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where?

Length Drill Pipe 3245 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1099 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 33 ft.

Remarks

WESTERN TESTING CO., INC.
Pressure Data

Date 5-18-68 Test Ticket No. 11502

Recorder No. 2604 Capacity 4150 Location 4369 Ft.

Clock No. 8475 Elevation 2218 Kelly Bushing Well Temperature 118 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2373	P.S.I.
B	First Initial Flow Pressure	25	P.S.I.
C	First Final Flow Pressure	45	P.S.I.
D	Initial Closed-in Pressure	1323	P.S.I.
E	Second Initial Flow Pressure	62	P.S.I.
F	Second Final Flow Pressure	132	P.S.I.
G	Final Closed-in Pressure	1261	P.S.I.
H	Final Hydrostatic Mud	2350	P.S.I.

	Time Given	Time Computed
Opened Tool	6:12 PM	
First Flow Pressure	30 Mins.	29 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	90 Mins.	85 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

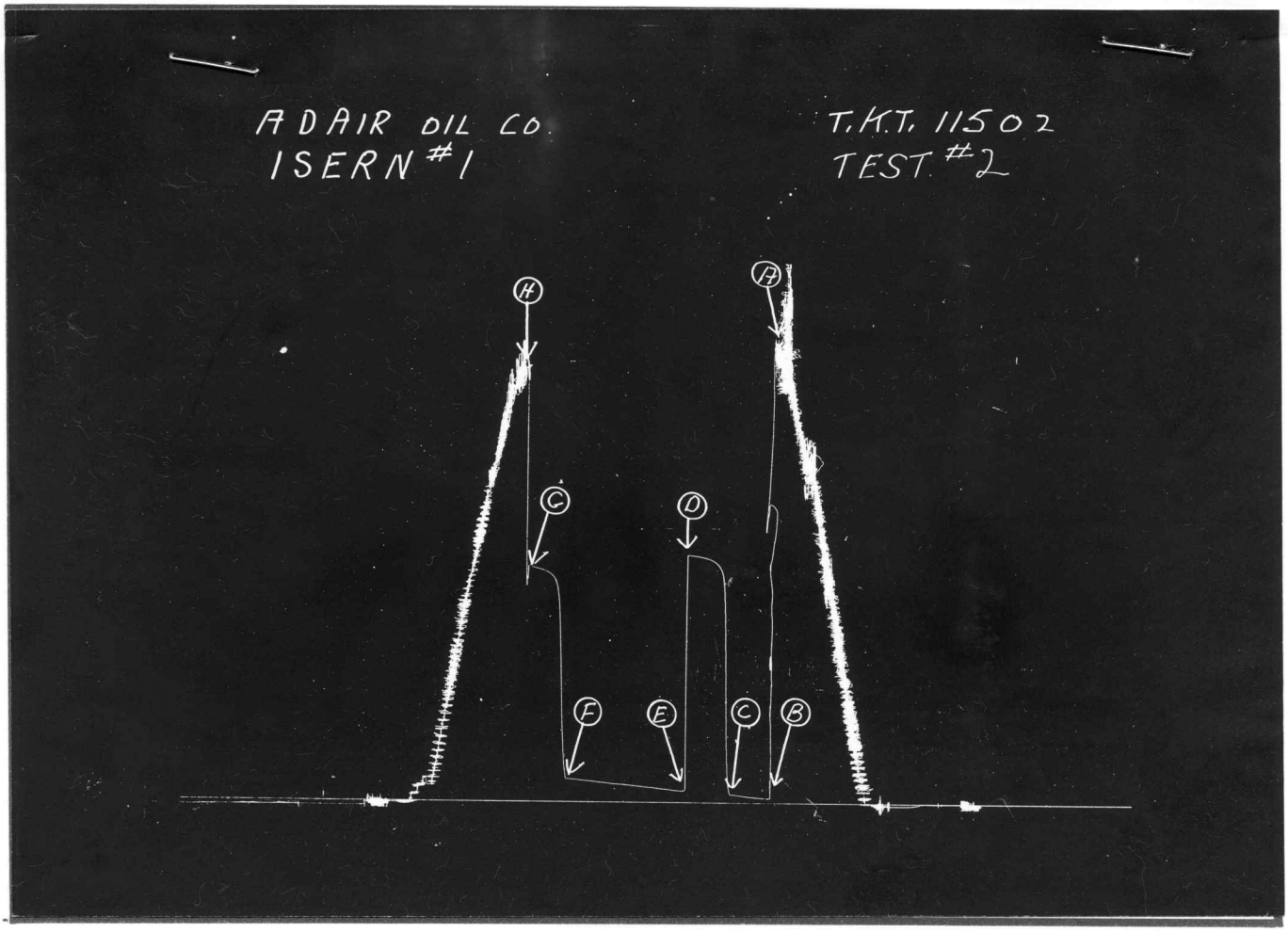
First Flow Press.
Breakdown: 5 Inc.
of 5 mins. and a
final inc. of 2 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of -- Min.

Second Flow Pressure
Breakdown: 17 Inc.
of 5 mins. and a
final inc. of -- Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of -- Min.

Point	First Flow Press. Mins.	First Flow Press. Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Pressure Point Minutes	Second Flow Pressure Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1	0	25	0	45	0	62	0	132
P 2	5	25	3	277	5	66	3	226
P 3	10	29	6	868	10	70	6	773
P 4	15	34	9	1221	15	74	9	1134
P 5	20	38	12	1265	20	78	12	1198
P 6	25	42	15	1284	25	83	15	1221
P 7	29	45	18	1298	30	87	18	1234
P 8			21	1305	35	91	21	1240
P 9			24	1311	40	96	24	1248
P10			27	1317	45	100	27	1254
P11			30	1323	50	104	30	1261
P12					55	108		
P13					60	112		
P14					65	117		
P15					70	121		
P16					75	125		
P17					80	129		
P18					85	132		
P19								
P20								



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2364	2373	PSI
(B)	First Initial Flow Pressure	25	25	PSI
(C)	First Final Flow Pressure	42	45	PSI
(D)	Initial Closed-in Pressure	1317	1323	PSI
(E)	Second Initial Flow Pressure	63	62	PSI
(F)	Second Final Flow Pressure	117	132	PSI
(G)	Final Closed-in Pressure	1254	1261	PSI
(H)	Final Hydrostatic Mud	2337	2350	PSI

COMPANY Adair Oil Co. LEASE AND WELL NO. Isern #1 SEC. 13 TWP. 20 RGE. 21w TEST NO. 2 DATE 5-18