WESTERN TESTERS

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

Company Adair Oil Co. & Pickrell Drilling Co. Lease & Well No. Hendrickson # 2

Elevation 2223 Kelly Bushing Formation Mississippian Effective Pay Ft. Ticket No. 12882

Date 6-10-69 Sec. 20 Twp. 21s Range 24w County Hodgeman State Kansas

Test Approved by Sherill Compton Western Representative Dean Blagrave

Formation Test No. 1 O.K. x Misrun Interval Tested From 4398' to 4423' Total Depth 4423'

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 4394 Ft. Size 6 3/4 Packer Depth 4398 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 4414 Ft. Clock No. 9102 Depth 4417 Ft. Clock No. 6800

Top Make Amerada Cap. 4150 No. 2605 Inside Outside Bottom Make Amerada Cap. 4200 No. 1558 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 5:54P M

Tool Open I.F.P. From 5:55 M. to 6:25P M. Hr. 30 Min. From (B) 40 P.S.I. To (C) 40 P.S.I.

Tool Closed I.C.I.P. From 6:25 M. to 6:55P M. Hr. 30 Min. (D) 67 P.S.I.

Tool Open F.F.P. From 6:55 M. to 7:25P M. Hr. 30 Min. From (E) 36 P.S.I. To (F) 41 P.S.I.

Tool Closed F.C.I.P. From 7:25 M. to 7:55P M. Hr. 30 Min. (G) 52 P.S.I.

Initial Hydrostatic Pressure (A) 2287 P.S.I. Final Hydrostatic Pressure (H) 2280 P.S.I.

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

BLOW Weak for 25 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 15 feet mud with few oil specks

Reversed Out Yes x No Mud Type starch Viscosity 44 Weight 9.7 Water Loss 13.6 cc. Maximum Temp. 124 °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 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 923 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 43 ft.

Remarks Slid tool approximately 2 feet after open

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 6-10-69 Test Ticket No. 12882

Recorder No. 2605 Capacity 4150 Location 4414 Ft.

Clock No. 9102 Elevation 2223 Kelly Bushing Well Temperature 124 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2287 P.S.I.	Open Tool	5:54P	M		
B	First Initial Flow Pressure	40 P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	40 P.S.I.	Initial Closed-in Pressure	30	Mins.	30	Mins.
D	Initial Closed-in Pressure	67 P.S.I.	Second Flow Pressure	30	Mins.	30	Mins.
E	Second Initial Flow Pressure	36 P.S.I.	Final Closed-in Pressure	30	Mins.	30	Mins.
F	Second Final Flow Pressure	41 P.S.I.					
G	Final Closed-in Pressure	52 P.S.I.					
H	Final Hydrostatic Mud	2280 P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of ____ Min.

Point Mins.	Press.
P 1 0	40
P 2 5	40
P 3 10	40
P 4 15	40
P 5 20	40
P 6 25	40
P 7 30	40
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	40
3	40
6	40
9	42
12	46
15	50
18	54
21	56
24	59
27	63
30	67

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

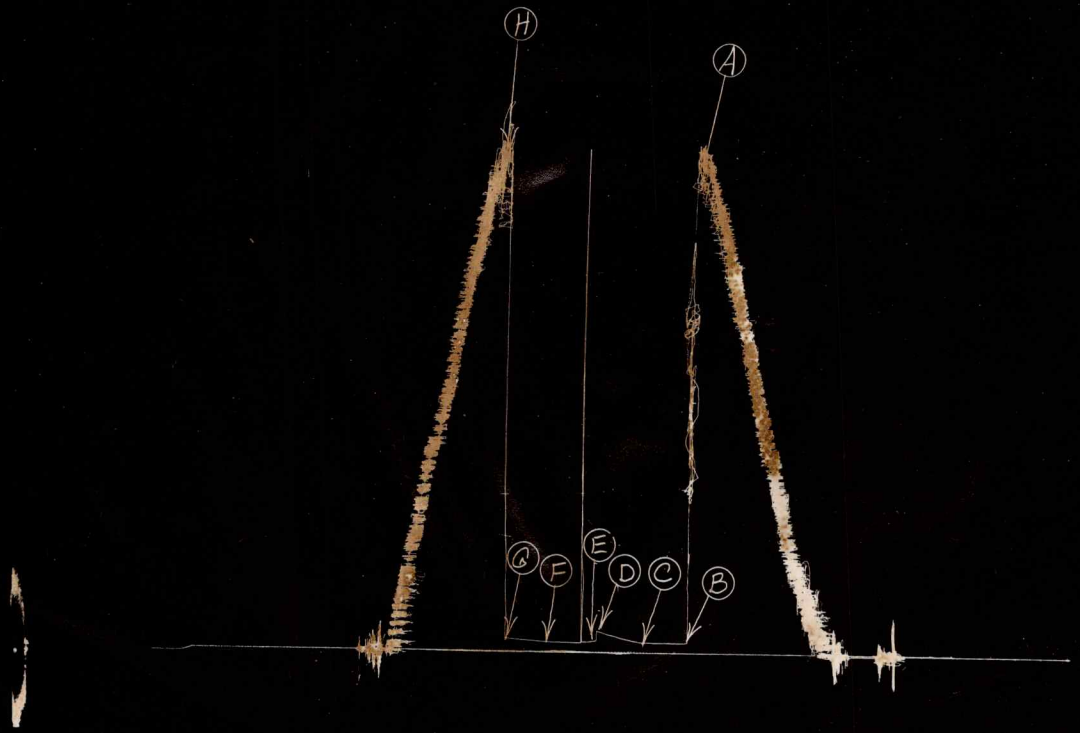
Point Minutes	Press.
0	36
5	36
10	36
15	41
20	41
25	41
30	41
35	

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

Point Minutes	Press.
0	41
3	41
6	41
9	42
12	44
15	44
18	48
21	50
24	50
27	50
30	52

Adair Oil Co. & Pickrell Drlg. Co.
Hendrickson #2

T.K.T. # 12882
Test # 1



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

Company Adair Oil Co. & Pickrell Drilling Co. Lease & Well No. Hendrickson # 2

Elevation 2223 Kelly Bushing Formation Mississippian Effective Pay Ft. Ticket No. 12883

Date 6-11-69 Sec. 20 Twp. 21s Range 24w County Hodgeman State Kansas

Test Approved by Sherill Compton Western Representative Dean Blagrave

Formation Test No. 2 O.K. x Misrun Interval Tested From 4412' to 4442' Total Depth 4442'

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

Packer Depth 4408 Ft. Size 6 3/4 Packer Depth 4412 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 30 Ft. Size 5½"OD

RECORDERS Depth 4433 Ft. Clock No. 9102 Depth 4436 Ft. Clock No. 6800

Top Make Amerada Cap. 4150 No. 2605 Inside Outside Bottom Make Amerada Cap. 4200 No. 1558 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 11:42A M

Tool Open I.F.P. From 11:43 M. to 12:13A M. Hr. 30 Min. From (B) 54 P.S.I. To (C) 54 P.S.I.

Tool Closed I.C.I.P. From 12:13 M. to 12:43A M. Hr. 30 Min. (D) 54 P.S.I.

Tool Open F.F.P. From 12:43 M. to 1:13A M. Hr. 30 Min. From (E) 54 P.S.I. To (F) 56 P.S.I.

Tool Closed F.C.I.P. From 1:13 M. to 1:43A M. Hr. 30 Min. (G) 61 P.S.I.

Initial Hydrostatic Pressure (A) 2342 P.S.I. Final Hydrostatic Pressure (H) 2331 P.S.I.

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

BLOW Weak for 20 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes x No Recovery Total Ft. 10 feet mud with few oil specks

Reversed Out Yes x No Mud Type starch Viscosity 64 Weight 9.8 Water Loss 7 cc. Maximum Temp. 124 °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 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 923 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 48 ft.

Remarks

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 6-11-69 Test Ticket No. 12883

Recorder No. 2605 Capacity 4150 Location 4433 Ft.

Clock No. 9102 Elevation 2223 Kelly Bushing Well Temperature 124 °F

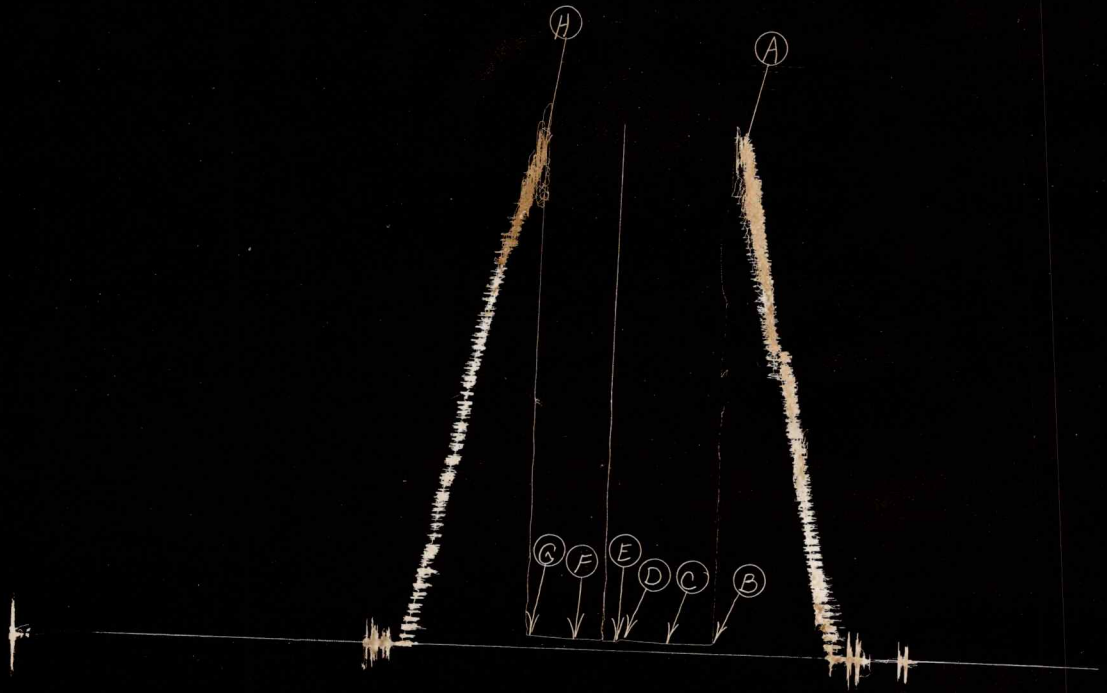
Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2342	P.S.I.	Open Tool	11:42P M	
B	First Initial Flow Pressure	54	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	54	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	54	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	54	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	56	P.S.I.			
G	Final Closed-in Pressure	61	P.S.I.			
H	Final Hydrostatic Mud	2331	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of ____ Min.		final inc. of ____ Min.		final inc. of ____ Min.		final inc. of ____ Min.	
Point Mins.	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**	**Point Minutes**	**Press.**
P 1 0	54	0	54	0	54	0	56
P 2 5	54	3	54	5	54	3	56
P 3 10	54	6	54	10	54	6	56
P 4 15	54	9	54	15	56	9	57
P 5 20	54	12	54	20	56	12	58
P 6 25	54	15	54	25	56	15	59
P 7 30	54	18	54	30	56	18	59
P 8		21	54	35		21	60
P 9		24	54			24	60
P10		27	54			27	60
P11		30	54			30	61
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Adair Oil Co. & Pickrell Drlg. Co.
Hendrickson #2

T.K.T. # 12883
Test # 2



WESTERN TESTERS

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

Company Adair Oil Co. & Pickrell Drilling Co. Lease & Well No. Hendrickson # 2

Elevation 2223 Kelly Bushing Formation Mississippian Effective Pay Ft. Ticket No. 12884

Date 6-12-69 Sec. 20 Twp. 21s Range 24w County Hodgeman State Kansas

Test Approved by Sherill Compton Western Representative Dean Blagrave

Formation Test No. 3 O.K. X Misrun Interval Tested From 4434' to 4452' Total Depth 4452'

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 4430 Ft. Size 6 3/4 Packer Depth 4434 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 18 Ft. Size 5½"OD

RECORDERS Depth 4443 Ft. Clock No. 9102 Depth 4446 Clock No. 6800

Top Make Amerada Cap. 4150 No. 2605 Inside Outside Bottom Make Amerada Cap. 4200 No. 1558 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 11:40A M

Tool Open I.F.P. From 11:41 M. to 12:11P M. Hr. 30 Min. From (B) 31 P.S.I. To (C) 37 P.S.I.

Tool Closed I.C.I.P. From 12:11 M. to 12:41P M. Hr. 30 Min. (D) 48 P.S.I.

Tool Open F.F.P. From 12:41 M. to 1:11P M. Hr. 30 Min. From (E) 44 P.S.I. To (F) 61 P.S.I.

Tool Closed F.C.I.P. From 1:11 M. to 2:11P M. Hr. 60 Min. (G) 88 P.S.I.

Initial Hydrostatic Pressure (A) 2357 P.S.I. Final Hydrostatic Pressure (H) 2331 P.S.I.

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

BLOW Weak for 30 minutes Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 70 feet oil cut mud

Reversed Out Yes X No Mud Type starch Viscosity 59 Weight 9.8 Water Loss 11.6 cc. Maximum Temp. 125 °F

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

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

Length Drill Pipe ft. I.D. Drill Pipe 3/8 in. Length Weight Pipe 923 ft. I.D. Weight Pipe 2.8 in. Length Drill Collars ft.

I. D. Drill Collars in. Length D.S.T. Tool 36 ft.

Remarks Flushed tool at 15 minutes

FORM WTC 3

WESTERN TESTING CO., INC.
Pressure Data

Date 6-12-69 Test Ticket No. 12884

Recorder No. 2605 Capacity 4150 Location 4443 Ft.

Clock No. 9102 Elevation 2223 Kelly Bushing Well Temperature 125 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2357	P.S.I.
B	First Initial Flow Pressure	31	P.S.I.
C	First Final Flow Pressure	37	P.S.I.
D	Initial Closed-in Pressure	48	P.S.I.
E	Second Initial Flow Pressure	44	P.S.I.
F	Second Final Flow Pressure	61	P.S.I.
G	Final Closed-in Pressure	88	P.S.I.
H	Final Hydrostatic Mud	2331	P.S.I.

	Time Given	Time Computed
Open Tool	11:40A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	60 Mins.	59 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Mins.	Press.
P 1 0	31
P 2 5	32
P 3 10	32
P 4 15	33
P 5 20	34
P 6 25	35
P 7 30	37
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	37
3	38
6	40
9	42
12	42
15	42
18	44
21	45
24	46
27	47
30	48

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

Point Minutes	Press.
0	44
5	44
10	44
15	44
20	61
25	61
30	61
35	

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	61
3	61
6	61
9	61
12	61
15	61
18	63
21	65
24	67
27	69
30	71
33	73
36	75
39	77
42	79
~~48~~	~~83~~
51	85
54	86
57	87
59	88

Adair Oil Co. & Pickrell Drlg. Co.
Hendrickson #2

T.K.T. # 12884
Test # 3

