



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Walnut Valley Oil Co., Inc. Lease & Well No. Graham #1
 Elevation 1319 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 24615
 Date 5-23-77 Sec. 14 Twp. 16S Range 14W County Cowley State Kansas
 Test Approved by Paul D. Koontz Western Representative Bill Baker

Formation Test No. 1 O.K. Misrun Interval Tested From 3110' to 3122' Total Depth 3122'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth - Ft. Size - Bottom Packer Depth 3110 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 12 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3115 Ft. Clock No. 10167 Depth 3118 Ft. Clock No. 8376
 Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 8:25 AM
 Tool Open I.F.P. From 8:30 A.M. to 9:00 A.M. - Hr. 30 Min. From (B) 1 P.S.I. To (C) 1 P.S.I.
 Tool Closed I.C.I.P. From 9:00 M. to 9:30 A.M. - Hr. 30 Min (D) 10 P.S.I.
 Tool Open F.F.P. From 9:30 M. to 10:00 M. - Hr. 30 Min. From (E) 6 P.S.I. To (F) 8 P.S.I.
 Tool Closed F.C.I.P. From 10:00 M. to 10:30 M. - Hr. 30 Min. (G) 8 P.S.I.
 Initial Hydrostatic Pressure (A) 1535 P.S.I. Final Hydrostatic Pressure (H) 1523 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Very Weak blow, died in 20 minutes.

Did Well Flow - Yes No Recovery Total Ft. 10' drilling mud with oil specks.

Reversed Out - Yes No Mud Type chem Viscosity 37 Weight 9.3 Water Loss 13.6 cc. Chlorides 1,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR White & Ellis Drlg. Co. Length Drill Pipe? 2935 Ft. I.D. Drill Pipe 4.8 In. Tool Joint Size 4 1/2 IF In.
 Length Weight Pipe 800 Ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 300 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4H90 In. Length D.S.T. Tool 27 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 5-23-77 Test Ticket No. 24615
 Recorder No. 3085 Capacity 4500 Location 3115 Ft.
 Clock No. 10167 Elevation 1319 Kelly Bushing Well Temperature 120 °F

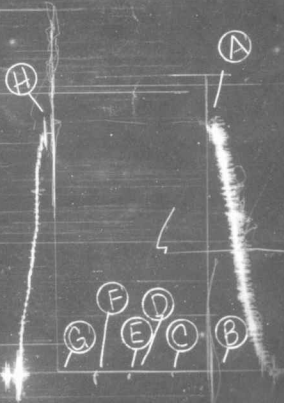
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1535 P.S.I.	Open Tool	8:28 AM	
B First Initial Flow Pressure	1 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	1 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	10 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	6 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	8 P.S.I.			
G Final Closed-in Pressure	8 P.S.I.			
H Final Hydrostatic Mud	1523 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	1	0	6	0	8
P 2	5	3	1	5	6	3	8
P 3	10	6	1	10	7	6	8
P 4	15	9	1	15	8	9	8
P 5	20	12	1	20	8	12	8
P 6	25	15	1	25	8	15	8
P 7	30	18	1	30	8	18	8
P 8		21	1			21	8
P 9		24	3			24	8
P 10		27	6			27	8
P 11		30	10			30	8
P 12							
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

TK#24615

I.





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET 24615

P. O. BOX 793 PHONE 793-7903
GREAT BEND, KANSAS

Formation Miss Elevation 1319 R.B Eff. Pay _____ Ft.

District Augusta Date 5-23-77 Customer Order No. _____

COMPANY NAME Walnut Valley Oil Co. Inc.

ADDRESS _____

LEASE AND WELL NO. Graham #1 COUNTY Cowley STATE Ks Sec. 29 Twp. 32s Rge. 6E

Mail Inv. To Same Co. Name _____ Address _____ No. Copies Requested 1

Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 3110 to 3122 Total Depth 3122

Size Main Hole 2 7/8 Rat Hole _____ Conv. _____ B.T. _____ Damaged Yes _____ No Conv. B.T. _____ Damaged Yes _____ No

Top Packer Depth _____ Ft. Size _____ Bottom Packer Depth 3110 Ft. Size 6 3/4

Straddle _____ Conv. _____ B.T. _____ Damaged Yes _____ No Packer Depth _____ Ft. Size _____

Tool Size 5/200 Tool Joint Size 4 1/2 FH Anchor Length 12 Ft. Size 5/200 Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3115 Ft. Clock No. 10167 Inside _____ Depth 3118 Ft. Clock No. 8376 Inside _____

Top Make Kuster Cap. 4500 No. 3085 Outside _____ Bottom Make Kuster Cap. 3200 No. 1561 Outside _____

Below Straddle: Depth _____ Rec. No. _____ Clock No. _____ Outside _____ Depth _____ Ft. Rec. No. _____ Clock No. _____ Outside _____

Time Set Packer 8:28 A.M.

Tool Open I.F.P. From 8:30 M. to 9:00 M. Hr. 30 Min. From (B) 7' P.S.I. To (C) 7' P.S.I.

Tool Closed I.C.I.P. From 9:00 M. to 9:30 M. Hr. 30 Min. (D) 15 10 P.S.I.

Tool Open F.F.P. From 9:30 M. to 10:00 M. Hr. 30 Min. From (E) 7 6 P.S.I. To (F) 78 P.S.I.

Tool Closed F.C.I.P. From 10:00 M. to 10:30 M. Hr. 30 Min. (G) 1523 78 P.S.I.

Initial Hydrostatic Pressure (A) 1484 P.S.I. Final Hydrostatic Pressure (H) 1476 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Very weak died 20 min.

Did Well Flow Yes No _____ Recovery Total Ft. 10' drlq. mud with oil specks

Reversed Out Yes No _____ Mud Type Chem Viscosity 37 Weight 9.3 Water Loss 13.6 cc. Chlorides 1000

EXTRA EQUIPMENT: Type Circ. Sub. Pow Safety Joint _____ Jars: Size _____ In. Make _____ Ser. No. _____

Dual Packers NO Did Packers Hold? Yes Did Tool Plug? NO Where? _____

DRILLING CONTRACTOR White & Ellis #5 Length Drill Pipe 2935 ft. I.D. Drill Pipe 4.8 In. Tool Joint Size 4 1/2 IF In.

Length Weight Pipe 800 ft. I.D. Weight Pipe 2.8 In. Tool Joint Size 4 1/2 IF In. Length Drill Collars 300 ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4" H90 In. Length D.S.T. Tool 37 ft.

Remarks _____

INVOICE SECTION

Open Hole Test	\$ 380.00
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Misrun	\$
Evaluation	\$
Packer	\$
Circ. Sub.	\$
Total	\$ 380.00

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Paul D. Koontz Western Representative Bruce Baker
Signature of Customer or his Authorized Representative Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.
Pressure Data

Date 5-23-77 Test Ticket No. 24615
 Recorder No. 3085 Capacity 4500 Location 3115 Ft.
 Clock No. 10167 Elevation 1319 K.B. Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1535</u>	P.S.I.	<u>8:28A</u> M	
B First Initial Flow Pressure	<u>1</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>1</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>10</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>6</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>8</u>	P.S.I.		
G Final Closed-in Pressure	<u>8</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1523</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>1</u>	0	<u>1</u>	0	<u>6</u>	0	<u>8</u>
P 2	<u>1</u>	3	<u>31</u>	5	<u>6</u>	3	<u>8</u>
P 3	<u>1</u>	6	<u>1</u>	10	<u>7</u>	6	<u>8</u>
P 4	<u>1</u>	9	<u>1</u>	15	<u>8</u>	9	<u>8</u>
P 5	<u>1</u>	12	<u>1</u>	20	<u>8</u>	12	<u>8</u>
P 6	<u>1</u>	15	<u>1</u>	25	<u>8</u>	15	<u>8</u>
P 7	<u>1</u>	18	<u>1</u>	30	<u>8</u>	18	<u>8</u>
P 8	<u>1</u>	21	<u>1</u>	35	<u>8</u>	21	<u>8</u>
P 9	<u>1</u>	24	<u>3</u>	40	<u>8</u>	24	<u>8</u>
P 10	<u>1</u>	27	<u>6</u>	45	<u>8</u>	27	<u>8</u>
P 11	<u>1</u>	30	<u>10</u>	50	<u>8</u>	30	<u>8</u>
P 12	<u>1</u>	33	<u>10</u>	55	<u>8</u>	33	<u>8</u>
P 13	<u>1</u>	36	<u>10</u>	60	<u>8</u>	36	<u>8</u>
P 14	<u>1</u>	39	<u>10</u>	65	<u>8</u>	39	<u>8</u>
P 15	<u>1</u>	42	<u>10</u>	70	<u>8</u>	42	<u>8</u>
P 16	<u>1</u>	45	<u>10</u>	75	<u>8</u>	45	<u>8</u>
P 17	<u>1</u>	48	<u>10</u>	80	<u>8</u>	48	<u>8</u>
P 18	<u>1</u>	51	<u>10</u>	85	<u>8</u>	51	<u>8</u>
P 19	<u>1</u>	54	<u>10</u>	90	<u>8</u>	54	<u>8</u>
P 20	<u>1</u>	57	<u>10</u>		<u>8</u>	57	<u>8</u>
	<u>1</u>	60	<u>10</u>		<u>8</u>	60	<u>8</u>