WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4895
UNIT NO.
DISTRICT 12

DATE 06/01/84

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

ROBINSON OIL COMPANY
300 W. DOUGLAS SUITE 737
WICHITA, KANSAS 67202

YOUR ORDER NO.	OWNER	CONTRACTOR

WELL NO.	FARM			SECTION	TWP.	RANGE
"B"	SCHROCK	HARPER	KS	8	31S	5W

DRILL STEM TEST FROM 3177' TO 3255' TOTAL DEPTH 3255' (TEST 1) $ 550.00

TOTAL $ 550.00

DISCOUNT			INVOICE NUMBER
$ 5.50	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	4895

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET

Nº 4895

OK

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1345 KB Formation Stalnaker Eff. Pay Ft.

12

R160

District Pratt Date 6-1-84 Customer Order No.

COMPANY NAME Robinson Oil Company

ADDRESS 300 W. Douglas #737 R.H. Garvey Bldg. Wichita, Ks 67202-2992

LEASE AND WELL NO. Schrock "B" #4 COUNTY Harper STATE Ks Sec. 8 Twp. 31S Rge. 5W

Mail Invoice To #4 "B" Schrock (Co. Name) (Address) No. Copies Requested

Mail Charts To (Address) No. Copies Requested

Formation Test No. 1 Interval Tested From 3177 ft. to 3255 ft. Total Depth 3255 ft.

Packer Depth 3172 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3177 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3179 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 3182 ft. Recorder Number 6244 Cap. 5200

Below Straddle Recorder Depth — ft. Recorder Number — Cap.

Drilling Contractor Sweetman Drlg. Co Rig #1

Mud Type Starch Viscosity 40

Weight 9.2 Water Loss 6.8 cc.

Chlorides NC P.P.M.

Jars: Make — Serial Number —

Did Well Flow? No Reversed Out

Drill Collar Length 250 I. D. 2.25 in.

Weight Pipe Length I. D. — in.

Drill Pipe Length 2907 I. D. 3.8 in.

Test Tool Length 20 ft. Tool Size 5 1/2 in.

Anchor Length 78 ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF 4 1/2 FH in.

Blow: Strong steady blow on initial flow period. Strong steady blow on final flow

Recovered 1200 ft. of Slightly Oil Cut gassy watery mud. (50% water 20% oil 30% gas)

Recovered 600 ft. of Salt Water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 133,000 P.P.M. Sample Jars used 5 Remarks: ~~They want EXTRAPOLATION & HORNER Plot on Final Reports.~~ Slid tool 5 to 10', after opening.

Time On Location 8:00 ~~A.M.~~ P.M. Time Pick Up Tool 9:00 ~~A.M.~~ P.M. Time Off Location 4:30 ~~A.M.~~ P.M.

Time Set Packer(s) 10:10 ~~A.M.~~ P.M. Time Started Off Bottom 12:5 ~~A.M.~~ P.M. Maximum Temperature 128°

Initial Hydrostatic Pressure		(A) 1673	P.S.I.	
Initial Flow Period	Minutes 30	(B) 179	P.S.I. to (C) 434	P.S.I.
Initial Closed In Period	Minutes 60	(D) 1354	P.S.I.	
Final Flow Period	Minutes 45	(E) 588	P.S.I. to (F) 754	P.S.I.
Final Closed In Period	Minutes 60	(G) 1354	P.S.I.	
Final Hydrostatic Pressure		(H) 1584	P.S.I.	

RECEIVED JUN 04 1984

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jay A. Smith 2075
Signature of Customer or his authorized representative

Western Representative Mike Litt - Thank You!

FIELD INVOICE

Open Hole Test	$ 550.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$ NC per LK
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ 550.00

Liquid Production

B.T. Gauge Numbers		6074	Ticket Number		4895
		PRESSURE			
Initial Hydrostatic		1673	Elevation		1345 K.B ft.
Final Hydrostatic		1579	Indicated Production	1st Flow	11.61 bbls. day
	Time			Total Flow	11.37 bbls. day
1st Flow — Initial	----	182			
1st Flow — Final	30	439	Drill Collar Length		250 ft.
Initial Closed In Pressure	60	1369	Drill Collar I.D.		2.25 in.
2nd Flow — Initial	----	519	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow — Final	50	761	Hole Size		7.875 in.
Final Closed In Pressure	60	1372	Footage Tested		78 (12) ft.
Extrapolated Static Pressure — Initial		1379 - 1322	Mud Weight		9.2 lbs. gal.
Extrapolated Static Pressure — Final		1386 - 1333	Viscosity, Oil or Water		cp
Slope psi/cycle — Initial		56.569	Oil API Gravity		—
Slope psi/cycle — Final		52.233	Water Specific Gravity		—

Remarks:

SUMMARY

Product	Equation	Gauge No. / Depth INITIAL (989)	FINAL (979)	Units
Production	$Q = \frac{1440\ R}{t}$	557.722	327.498	bbls., day,
Transmissability	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$	1590.976	1004.740	md. ft. / cp
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$	6363.907	4018.961	md. ft.
Average Effective	$K = \frac{Kh}{h}$	530.325	334.913	md.
Permeability	$K_1 = \frac{Kh}{h_1}$	—	—	md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$	3.017	2.158	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$	1683.147	706.747	bbls. day
Approx. Radius of Investigation	$b \backsimeq \sqrt{Kt}$ or $\sqrt{Kt_0}$	126.133	129.405	ft.
	$b_1 \backsimeq \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$	—		ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$	—		ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and elevations based thereon, Western Testing Co., Inc. is merely expressing its opinion. You agree that Western Testing Co., Inc. makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Western Testing Co., Inc. shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

INTERPRETATIONS AND CALCULATIONS

6074
DST #1

-TC# 4895

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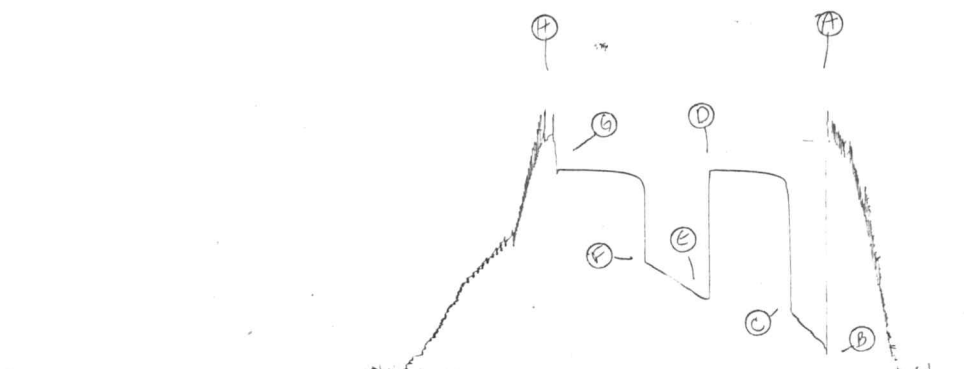
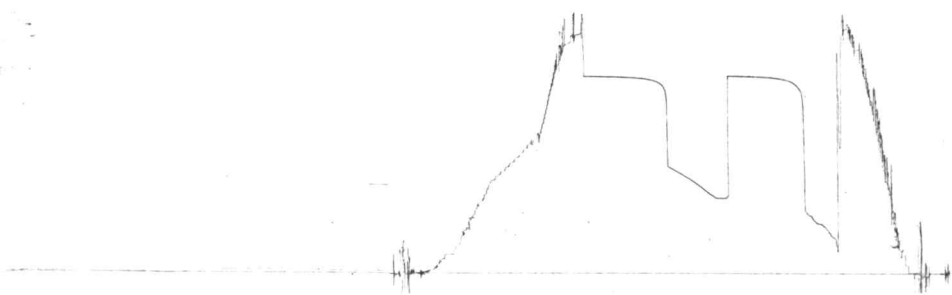


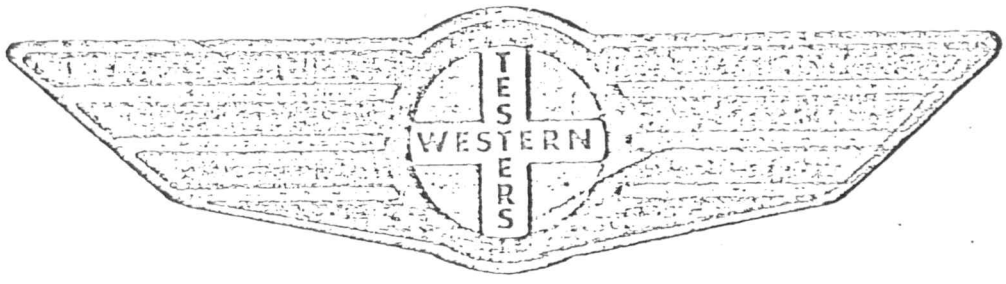
ICC # 4895

6246
DST #1



mpany ROBINSON OIL COMPANY Lease and Well No. #4 "B" SCHROCK Sec. 8 Twp. 31s Rge. 5w Test No. 1 Date 6/1/84

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/1/84 TICKET #4895
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 1 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: STALNAKER
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 3177 FT TO: 3255 FT TOTAL DEPTH: 3255 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3172 FT SIZE: 6 5/8 IN PACKER DEPTH: 3177 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN
MUD TYPE: STARCH VISCOSITY: 40
WEIGHT: 9.2 WATER LOSS (CC): 6.8
CHLORIDES (P.P.M.):
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 250 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2907 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 78 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 F.H. IN

BLOW: STRONG STEADY BLOW THROUGHOUT TEST.

RECOVERED: 1200 FT OF: SLIGHTLY OIL CUT GASSY WATERY MUD; 50% WATER;
RECOVERED: FT OF: 20% OIL; 30% GAS
RECOVERED: 600 FT OF: SALT WATER
RECOVERED: FT OF: CHLORIDES 133000 PPM
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SLID TOOL 5 FEET TO 10 FEET ARTER OPENING.

TIME SET PACKER(S): 10:10 P.M. TIME STARTED OFF BOTTOM: 1:25 A.M.
WELL TEMPERATURE: 128 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1673 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 182 PSI TO (C) 439 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1369 PSI
FINAL FLOW PERIOD MIN: 50 (E) 519 PSI TO (F) 761 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1372 PSI
FINAL HYDROSTATIC PRESSURE (H) 1579 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 6/1/84 TICKET #4895
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 1 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: STALNAKER
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1673	PSI
(B) FIRST INITIAL FLOW PRESSURE:	182	PSI
(C) FIRST FINAL FLOW PRESSURE:	439	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1369	PSI
(E) SECOND INITIAL FLOW PRESSURE:	519	PSI
(F) SECOND FINAL FLOW PRESSURE:	761	PSI
(G) FINAL CLOSED-IN PRESSURE:	1372	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1579	PSI
WELL TEMPERATURE:	128	°F

OPEN TOOL: 10:10 P.M.

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	60	MIN	60	MIN
SECOND FLOW PRESSURE:	45	MIN	50	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	60	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	182	0	439	0	519	0	761
2	5	246	3	1012	5	523	3	1282
3	10	278	6	1260	10	549	6	1316
4	15	326	9	1318	15	581	9	1332
5	20	361	12	1332	20	611	12	1341
6	25	407	15	1339	25	639	15	1347
7	30	439	18	1344	30	669	18	1352
8			21	1349	35	693	21	1355
9			24	1355	40	716	24	1357
10			27	1358	45	747	27	1359
11			30	1360	50	761	30	1361
12			33	1362			33	1363
13			36	1364			36	1365
14			39	1365			39	1367
15			42	1366			42	1368
16			45	1367			45	1369
17			48	1368			48	1370
18			51	1368			51	1371
19			54	1369			54	1372
20			57	1369			57	1372
21			60	1369			60	1372
22								
23								
24								
25								
26								
27								
28								
29								
30								

Liquid Production

B.T. Gauge Numbers		6074	Ticket Number		4895
		PRESSURE			
Initial Hydrostatic		1673	Elevation		1345 K.B. ft.
Final Hydrostatic		1579	Indicated Production	1st Flow	11.61 bbls. day
	Time			Total Flow	11.37 bbls. day
1st Flow Initial	— — — —	182			
1st Flow Final	30	439	Drill Collar Length		250 ft.
Initial Closed In Pressure	60	1369	Drill Collar I.D.		2.25 in.
2nd Flow Initial	— — — —	519	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow Final	50	761	Hole Size		7.875 in.
Final Closed In Pressure	60	1372	Footage Tested		48 (12) ft.
Extrapolated Static Pressure Initial		1379–1322	Mud Weight		9.2 lbs. gal.
Extrapolated Static Pressure Final		1386–1333	Viscosity, Oil or Water		cp
Slope psi/cycle Initial		56.569	Oil API Gravity		—
Slope psi/cycle Final		52.233	Water Specific Gravity		—

Remarks:

SUMMARY

		Gauge No. Depth	.989 INITIAL	.979 FINAL	Units
Production	$Q = \frac{1440\ R}{t}$		557.722	327.498	bbls., day,
Transmissability	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$		1590.976	1004.740	md. ft. / cp
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$		6363.907	4018.961	md. ft.
Average Effective Permeability	$K = \frac{Kh}{h}$		530.325	334.913	md.
	$K_1 = \frac{Kh}{h_1}$		---	---	md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$		3.017	2.158	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$		1683.147	706.747	bbls. day
Approx. Radius of Investigation	$b \leftrightarrows \sqrt{Kt}$ or $\sqrt{Kt_0}$		126.133	129.405	ft.
	$b_1 \leftrightarrows \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		---	---	ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$		---	---	ft.

INTERPRETATIONS AND CALCULATIONS

WESTERN TESTING CO., INC.
Pressure Data

Date 6-184 Test Ticket No. 4895

Recorder No. 6074 Capacity Location Ft.

Clock No. Elevation Well Temperature °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1673	P.S.I.	Open Tool M	
B	First Initial Flow Pressure	182	P.S.I.	First Flow Pressure Mins.	Mins.
C	First Final Flow Pressure	439	P.S.I.	Initial Closed-in Pressure Mins.	Mins.
D	Initial Closed-in Pressure	1369	P.S.I.	Second Flow Pressure Mins.	Mins.
E	Second Initial Flow Pressure	519	P.S.I.	Final Closed-in Pressure Mins.	Mins.
F	Second Final Flow Pressure	761	P.S.I.		
G	Final Closed-in Pressure	1372	P.S.I.		
H	Final Hydrostatic Mud	1579	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	182
P 2	5	246
P 3	10	278
P 4	15	326
P 5	20	361
P 6	25	407
P 7	30	439
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	439
3	1012
6	1260
9	1318
12	1332
15	1339
18	1344
21	1349
24	1355
27	1358
30	1360
33	1362
36	1364
39	1365
42	1366
45	1367
48	1368
51	1368
54	1369
57	
60	1369

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	519
5	523
10	549
15	581
20	611
25	639
30	669
35	693
40	716
45	747
50	761
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	761
3	1282
6	1316
9	1332
12	1341
15	1347
18	1352
21	1355
24	1357
27	1359
30	1361
33	1363
36	1365
39	1367
42	1368
45	1369
48	1370
51	1371
54	1372
57	
60	1372

WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4896
UNIT NO.
DISTRICT 12

DATE 06/02/84

ROBINSON OIL COMPANY
300 W. DOUGLAS SUITE 737
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR	SECTION	TWP.	RANGE
			8	31S	5W

FARM HARPER KS

WELL NO. 4 (B) SCHROCK

DRILL STEM TEST FROM 3502' TO 3525' TOTAL DEPTH 3525' (TEST 2) $ 550.00

TOTAL $ 550.00

DISCOUNT	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER
$ 5.50			4896

PAY TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

Call - OK

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET Nº 4896

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1345 KB Formation Kansas City "A" Eff. Pay Ft.

12 R16W District PRATT Date 6-2-84 Customer Order No.

COMPANY NAME Robinson Oil Co.
ADDRESS 300 W. Douglas 734 Petr. Bldg. 734 N.H. CARVEY Bldg. Wichita Ks 67202-2992 5W

LEASE AND WELL NO. Schrock B #4 COUNTY Harper STATE Ks Sec. 8 Twp. 31S Rge. 5W

Mail Invoice To #4 "B" SCHROCK Co. Name same Address No. Copies Requested req

Mail Charts To same Address No. Copies Requested req

Formation Test No. 2 Interval Tested From 3502 ft. to 3525 ft. Total Depth 3525 ft.

Packer Depth 3497 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3502 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3504 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 3501 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth — ft. Recorder Number — Cap.

Drilling Contractor Sweetman Drlg Co Rig #1 Drill Collar Length 280 I. D. 2.25 in.

Mud Type Starch Viscosity 48 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 3202 I. D. 3.8 in.

Chlorides NC P.P.M. Test Tool Length 20 ft. Tool Size 5½ in.

Jars: Make — Serial Number — Anchor Length 23 ft. Size 5½ in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size ~~3½~~ 4½ FH in.

Blow: Weak blow building to strong blow on initial flow. Strong steady blow through final flow

Recovered 60 ft. of gas in pipe

Recovered ~~1365~~ ft. of

Recovered 185 ft. of Very Slightly Oil cut gassy drlg mud. (~~70~~ 90% mud, 3% water, 12% mud cut oil, 2% free oil 43% gas).

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 3 Remarks: ~~Also wants Horner Plot.~~ #6246 chart tube was stuck.

Time On Location 8:30 A.M. (P.M.) Time Pick Up Tool 10:00 A.M. (P.M.) Time Off Location 5:20 (A.M.) P.M.

Time Set Packer(s) 11:05 A.M. (P.M.) Time Started Off Bottom 3:05 (A.M.) P.M. Maximum Temperature 128°

Initial Hydrostatic Pressure		(A) 1941	P.S.I.	
Initial Flow Period	Minutes 30	(B) 38	P.S.I. to (C) 38	P.S.I.
Initial Closed In Period	Minutes 60	(D) 1073	P.S.I.	
Final Flow Period	Minutes 60	(E) 63	P.S.I. to (F) 63	P.S.I.
Final Closed In Period	Minutes 90	(G) 1214	P.S.I.	
Final Hydrostatic Pressure		(H) 1826	P.S.I.	

RECEIVED JUN 06 1984

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jerry A. Smith
Signature of Customer or his authorized representative

Western Representative Mike Lutt Thank you!

2075

FIELD INVOICE

Open Hole Test	$ ~~550~~ 500.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
~~Evaluation~~	$ ~~✓~~
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ ✓550 00

Ticket #4896 6074 DST #2

IKT # 4896

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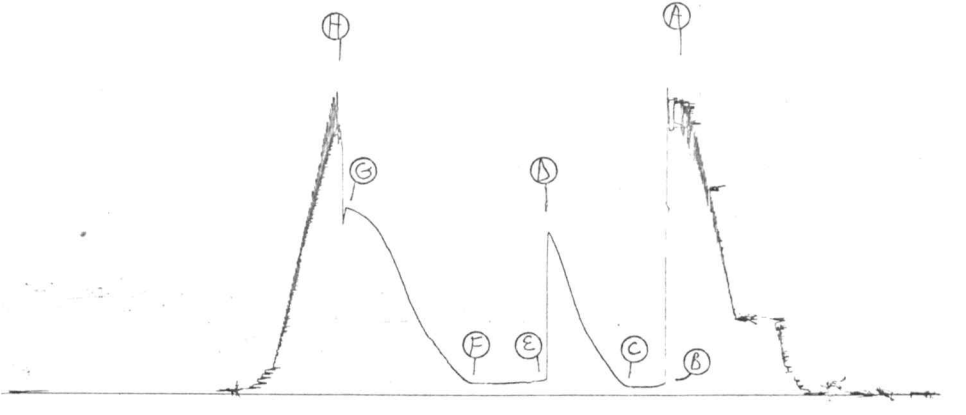

TKT # 4896

#4896 6246
DST#2

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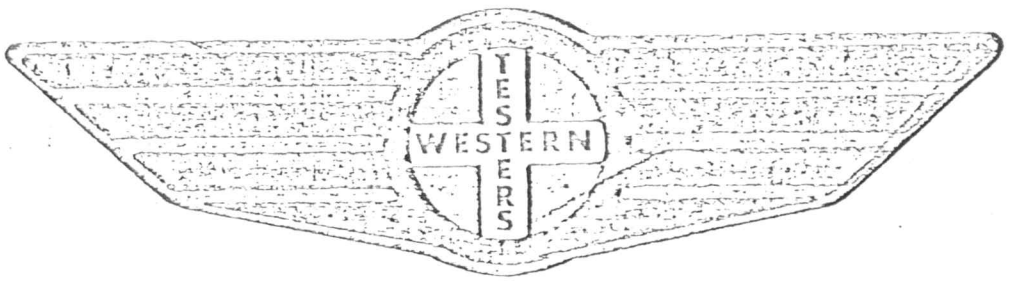
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

npany ROBINSON OIL COMPANY

Lease and Well No. #4 "B" SCHROCK Sec. 8 Twp. 31S Rge. 5W

Test No. 2 Date 6/4/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/2/84 TICKET #4896
CUSTOMER: ROBINSON OIL COMPANY LEASE: SCHROCK "B"
WELL: #4 TEST: 2 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY A
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 3502 FT TO: 3525 FT TOTAL DEPTH: 3525 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3497 FT SIZE: 6 5/8 IN PACKER DEPTH: 3502 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN
MUD TYPE: STARCH VISCOSITY: 48
WEIGHT: 9.4 WATER LOSS (CC): 8.0
CHLORIDES (P.P.M.): N/C
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 280 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3202 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 23 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING
TO STRONG. FINAL FLOW PERIOD STRONG
STEADY BLOW THROUGHOUT.

RECOVERED: 60 FT OF: GAS ABOVE FLUID.
RECOVERED: 185 FT OF: VERY SLIGHTLY OIL CUT GASSY DRLG MUD.
RECOVERED: FT OF: 20% MUD; 3% WTR; 12% MCO; 2% OIL; 43% GAS.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: CHART 6246 TUBE WAS STUCK.

TIME SET PACKER(S): 11:05 P.M. TIME STARTED OFF BOTTOM: 3:05 A.M.
WELL TEMPERATURE: 128 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1941 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 55 PSI TO (C) 58 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1079 PSI
FINAL FLOW PERIOD MIN: 55 (E) 76 PSI TO (F) 79 PSI
FINAL CLOSED IN PERIOD MIN: 96 (G) 1236 PSI
FINAL HYDROSTATIC PRESSURE (H) 1926 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 6/2/84 TICKET #4896
CUSTOMER: ROBINSON OIL COMPANY LEASE: SCHROCK "B"
WELL: #4 TEST: 2 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY A
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1941	PSI
(B) FIRST INITIAL FLOW PRESSURE:	55	PSI
(C) FIRST FINAL FLOW PRESSURE:	58	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1079	PSI
(E) SECOND INITIAL FLOW PRESSURE:	76	PSI
(F) SECOND FINAL FLOW PRESSURE:	79	PSI
(G) FINAL CLOSED-IN PRESSURE:	1236	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1926	PSI
WELL TEMPERATURE:	128	'F

OPEN TOOL: 11:05 P.M.

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	60	MIN	60	MIN
SECOND FLOW PRESSURE:	60	MIN	55	MIN
FINAL CLOSED-IN PRESSURE:	90	MIN	96	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	55	0	58	0	76	0	79
2	5	55	3	92	5	76	3	97
3	10	55	6	120	10	76	6	115
4	15	55	9	168	15	76	9	140
5	20	56	12	192	20	76	12	166
6	25	57	15	228	25	76	15	197
7	30	58	18	265	30	76	18	232
8			21	303	35	76	21	263
9			24	343	40	76	24	302
10			27	386	45	76	27	332
11			30	426	50	77	30	368
12			33	483	55	79	33	396
13			36	550			36	437
14			39	627			39	487
15			42	706			42	540
16			45	785			45	590
17			48	864			48	657
18			51	938			51	729
19			54	1002			54	797
20			57	1056			57	856
21			60	1079			60	915
22							63	964
23							66	1013
24							69	1064
25							72	1104
26							75	1130
27							78	1161
28							81	1181
29							84	1196
30							87	1211

PRESSURE BREAKDOWN - CONT. TICKET #4896

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1223
32							93	1232
33							96	1236
34								
35								
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37								
38								
39								
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42								
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WESTERN TESTING CO., INC.

Pressure Data

Date 6-2 Test Ticket No. 4896

Recorder No. 6074 Capacity Location Ft.

Clock No. — — — — Elevation Well Temperature °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1941	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	55	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	58	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1079	P.S.I.	Second Flow Pressure	60 Mins.	55 Mins.
E	Second Initial Flow Pressure	76	P.S.I.	Final Closed-in Pressure	90 Mins.	96 Mins.
F	Second Final Flow Pressure	79	P.S.I.			
G	Final Closed-in Pressure	1236	P.S.I.			
H	Final Hydrostatic Mud	1926	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.		Press.
P 1	0	55
P 2	5	
P 3	10	
P 4	15	55
P 5	20	56
P 6	25	57
P 7	30	58
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	58
3	92
6	120
9	159
12	192
15	228
18	265
21	303
24	343
27	386
30	426
33	483
36	550
39	627
42	706
45	785
48	864
51	938
54	1002
57	1056
60	1079

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	76
5	
10	
15	
20	
25	
30	
35	
40	
45	76
50	77
55	79
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 33 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	79
3	97
6	115
9	140
12	166
15	197
18	232
21	263
24	302
27	332
30	368
33	396
36	437
39	487
42	540
45	590
48	657
51	729
54	797
57	856
60	915

cont

WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. 4896

Recorder No. _____ Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: ____ Inc.	Breakdown: ____ Inc.	Breakdown: ____ Inc.	Breakdown: ____ Inc.
of 5 mins. and a	of 3 mins. and a	of 5 mins. and a	of 3 mins. and a
final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63				63	964
P 2		66				66	1013
P 3		69				69	1064
P 4		72				72	1104
P 5		75				75	1130
P 6		78				78	1161
P 7		81				81	1181
P 8		84				84	1196
P 9		87				87	1211
P10		90				90	1223
P11		93				93	1232
P12		96				96	1236
P13		99				99	
P14		102				102	
P15		105				105	
P16		108				108	
P17		111				111	
P18		114				114	
P19		117				117	
P20		120				120	

WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4897
UNIT NO.
DISTRICT 12

DATE 06/03/84

ROBINSON OIL COMPANY
300 W. DOUGLAS SUITE 737
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR

WELL NO.	FARM			SECTION	TWP.	RANGE
(B)	SCHROCK	HARPER	KS	8	31S	5W

DRILL STEM TEST FROM 3601' TO 3615' TOTAL DEPTH 3615' (TEST 3) $ 550.00

TOTAL $ 550.00

DISCOUNT			INVOICE NUMBER
$ 5.50	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	4897

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

Call - OK

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET Nº 4897

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1345 K.B Formation KANSAS City (Dennis) Eff. Pay Ft.

R16 W 17 District PRATT Date 6-3-84 Customer Order No.

COMPANY NAME Robinson Oil Co.
300 W. Douglas Suite 737
ADDRESS ~~737 R.H. Garvey Bldg.~~ Wichita, Ks 67202-2992

LEASE AND WELL NO. Schrock B #4 COUNTY Harper STATE Ks Sec. 8 Twp. 31 S Rge. 5 W

Mail Invoice To #4 "B" SCHROCK same No. Copies Requested req
Co. Name Address

Mail Charts To same No. Copies Requested req
Address

Formation Test No. 3 Interval Tested From 3601 ft. to 3615 ft. Total Depth 3615 ft.
Packer Depth 3596 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 3601 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3603 ft. Recorder Number 6094 Cap. 5100
Bottom Recorder Depth (Outside) 3606 ft. Recorder Number 6246 Cap. 5200
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Sweetman Drlg Rig #1 Drill Collar Length 280 I. D. 2.25 in.
Mud Type Starch Viscosity 50 Weight Pipe Length — I. D. — in.
Weight 9.6 Water Loss 7.2 cc. Drill Pipe Length 3301 I. D. 3.8 in.
Chlorides N/C P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make — Serial Number — Anchor Length 14 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF 4 1/2 FH in.

Blow: Weak, steady blow through initial flow. Very weak blow through final flow

Recovered 130 ft. of ~~Very slightly gas cut mud~~ Slightly oil & gas cut watery mud. (80% mud, 19% water 1% oil).
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used 3 Remarks: ~~Also Horner Plot~~

Time On Location 4:15 A.M. (P.M.) Time Pick Up Tool 4:30 A.M. (P.M.) Time Off Location 11:00 A.M. (P.M.)
Time Set Packer(s) 5:50 A.M. (P.M.) Time Started Off Bottom 9:05 A.M. (P.M.) Maximum Temperature 131°

Initial Hydrostatic Pressure			(A)	2030	P.S.I.	
Initial Flow Period	Minutes	30	(B)	51	P.S.I. to (C)	38 P.S.I.
Initial Closed In Period	Minutes	45	(D)	1341	P.S.I.	
Final Flow Period	Minutes	60	(E)	63	P.S.I. to (F)	46 P.S.I.
Final Closed In Period	Minutes	60	(G)	1341	P.S.I.	
Final Hydrostatic Pressure			(H)	1762	P.S.I.	

RECEIVED JUN 06 1984

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [signature]
Signature of Customer or his authorized representative

Western Representative Mike Smith — Thank You!
2075

FIELD INVOICE

Open Hole Test	$ ✓550.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$ ✓NC per LK
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ ✓550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-3 Test Ticket No. 4897

Recorder No. 6074 Capacity Location Ft.

Clock No. — — — — Elevation Well Temperature °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2053	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	51	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	54	P.S.I.	Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	1369	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	78	P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F	Second Final Flow Pressure	97	P.S.I.			
G	Final Closed-in Pressure	1349	P.S.I.			
H	Final Hydrostatic Mud	2033	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.		Press.
P 1	0	51
P 2	5	(
P 3	10	(
P 4	15	51
P 5	20	52
P 6	25	53
P 7	30	54
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	54
3	114
6	340
9	903
12	1181
15	1267
18	1310
21	1327
24	1337
27	1346
30	1354
33	1359
36	1364
39	1367
42	1369
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	78
5	(
10	(
15	78
20	80
25	82
30	84
35	86
40	89
45	92
50	94
55	96
60	97
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	97
3	127
6	173
9	233
12	366
15	601
18	974
21	1173
24	1237
27	1270
30	1288
33	1305
36	1319
39	1327
42	1332
45	1337
48	1341
51	1344
54	1347
57	1349
60	

Liquid Production

B.T. Gauge Numbers		6074	Ticket Number		4897
		PRESSURE			
Initial Hydrostatic		2053	Elevation		1345 K.B ft.
Final Hydrostatic		2033	Indicated Production	1st Flow	.221 bbls. day
	Time			Total Flow	.418 bbls. day
1st Flow — Initial	----	51			
1st Flow — Final	30	54	Drill Collar Length		280 ft.
Initial Closed In Pressure	42	1369	Drill Collar I.D.		2.25 in.
2nd Flow — Initial	----	78	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow — Final	60	97	Hole Size		7.875 in.
Final Closed In Pressure	57	1349	Footage Tested		14 (8) ft.
Extrapolated Static Pressure — Initial		1422 - 1196	Mud Weight		9.6 lbs. gal.
Extrapolated Static Pressure — Final		1412 - 1209	Viscosity, Oil or Water		cp
Slope psi/cycle — Initial		225.799	Oil API Gravity		—
Slope psi/cycle — Final		202.229	Water Specific Gravity		—

Remarks:

SUMMARY

Gauge No. / Depth: 994 / 997

Product	Equation	INITIAL	FINAL	Units
Production	$Q = \frac{1440\ R}{t}$	10.631	10.040	bbls., day,
Transmissability	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$	7.648	8.043	$\frac{\text{md. ft.}}{\text{cp}}$
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$	30.595	32.169	md. ft.
Average Effective	$K = \frac{Kh}{h}$	3.824	4.021	md.
Permeability	$K_1 = \frac{Kh}{h_1}$			md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$	1.107	1.185	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$	11.776	11.902	bbls. day
Approx. Radius of Investigation	$b \backsimeq \sqrt{Kt}$ or $\sqrt{Kt_0}$	10.711	15.532	ft.
	$b_1 \backsimeq \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$			ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$			ft.

INTERPRETATIONS AND CALCULATIONS

Ticket 4897

6014 DST #3

TKT # 4897

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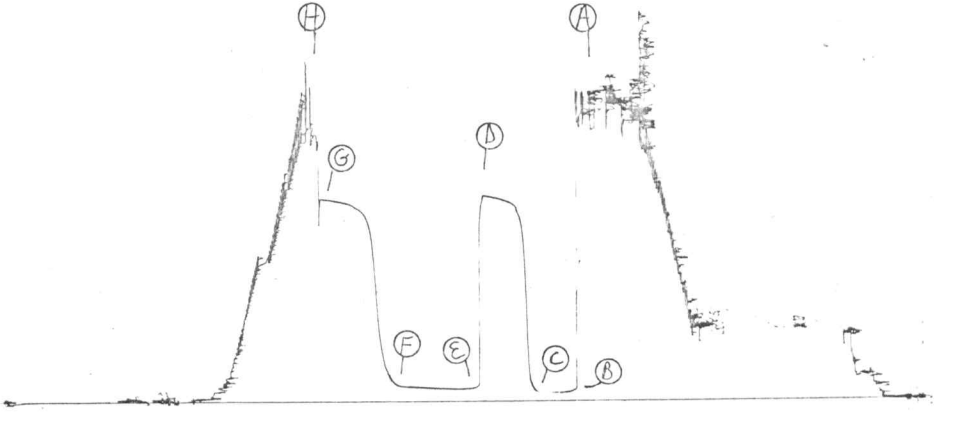
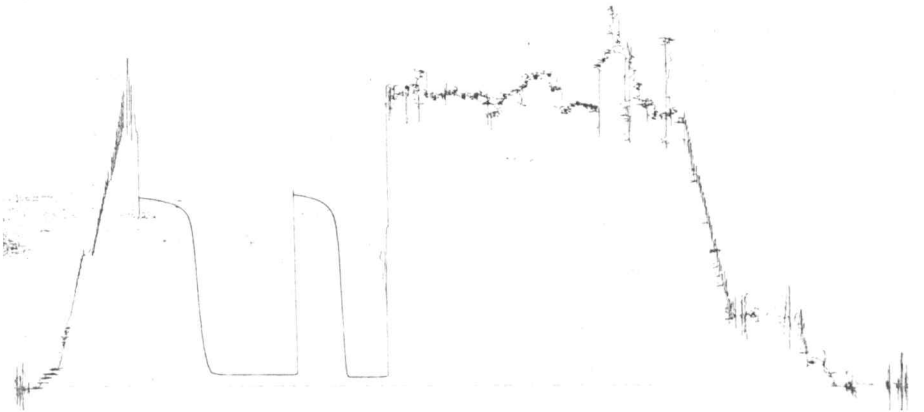


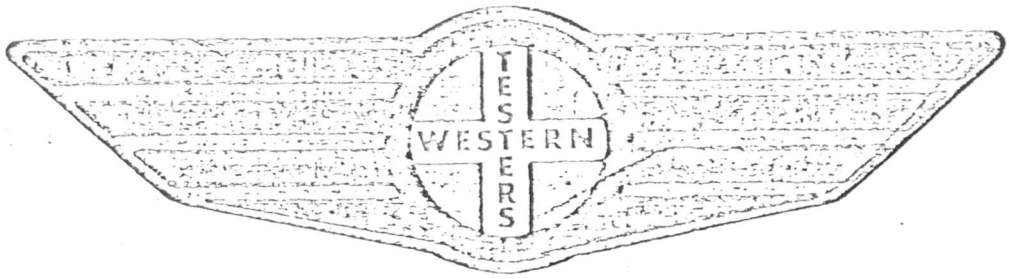
TKT # 4897

#4897 6246 DST #3



mpany ROBINSON OIL COMPANY Lease and Well No. #4 "B" SCHROCK Sec. 5 Twp. 31S Rge. 3W Test No. 3 Date 6/3/84

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/3/84 TICKET #4897
CUSTOMER: ROBINSON OIL COMPANY LEASE: SCHROCK "B"
WELL: #4 TEST: 3 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 3601 FT TO: 3615 FT TOTAL DEPTH: 3615 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3596 FT SIZE: 6 5/8 IN PACKER DEPTH: 3601 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN
MUD TYPE: STARCH VISCOSITY: 50
WEIGHT: 9.6 WATER LOSS (CC): 7.2
CHLORIDES (P.P.M.): N/C
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 280 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3301 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 14 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD WEAK STEADY BLOW THROUGHOUT. FINAL FLOW PERIOD VERY WEAK BLOW THROUGHOUT.

RECOVERED: 130 FT OF: SLIGHTLY OIL & GAS CUT WATERY MUD.
RECOVERED: FT OF: 80% MUD; 19% WTR; 1% OIL.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 5:50 P.M. TIME STARTED OFF BOTTOM: 9:05 P.M.
WELL TEMPERATURE: 131 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2053 PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 51 PSI	TO (C) 54 PSI
INITIAL CLOSED IN PERIOD	MIN: 42	(D) 1369 PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 78 PSI	TO (F) 97 PSI
FINAL CLOSED IN PERIOD	MIN: 57	(G) 1349 PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2033 PSI	

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 6/3/84 TICKET #4897
CUSTOMER: ROBINSON OIL COMPANY LEASE: SCHROCK "B"
WELL: #4 TEST: 3 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2053	PSI
(B) FIRST INITIAL FLOW PRESSURE:	51	PSI
(C) FIRST FINAL FLOW PRESSURE:	54	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1369	PSI
(E) SECOND INITIAL FLOW PRESSURE:	78	PSI
(F) SECOND FINAL FLOW PRESSURE:	97	PSI
(G) FINAL CLOSED-IN PRESSURE:	1349	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2033	PSI
WELL TEMPERATURE:	131	'F

OPEN TOOL: 5:50 P.M.

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	45	MIN	42	MIN
SECOND FLOW PRESSURE:	60	MIN	60	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	57	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	51	0	54	0	78	0	97
2	5	51	3	114	5	78	3	127
3	10	51	6	340	10	78	6	173
4	15	51	9	903	15	78	9	233
5	20	52	12	1181	20	80	12	366
6	25	53	15	1267	25	82	15	601
7	30	54	18	1310	30	84	18	974
8			21	1327	35	86	21	1173
9			24	1337	40	89	24	1237
10			27	1346	45	92	27	1270
11			30	1354	50	94	30	1288
12			33	1359	55	96	33	1305
13			36	1364	60	97	36	1319
14			39	1367			39	1327
15			42	1369			42	1332
16							45	1337
17							48	1341
18							51	1344
19							54	1347
20							57	1349
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

Liquid Production

B.T. Gauge Numbers		6074	Ticket Number		4897
		PRESSURE	Elevation		1345 K.B. ft.
Initial Hydrostatic		2053			
Final Hydrostatic		2033	Indicated Production	1st Flow	.221 bbls. day
	Time			Total Flow	.418 bbls. day
1st Flow Initial	— — — —	51			
1st Flow Final	30	54	Drill Collar Length		280 ft.
Initial Closed In Pressure	42	1369	Drill Collar I.D.		2.25 in.
2nd Flow Initial	— — — —	78	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow Final	60	97	Hole Size		7.875 in.
Final Closed In Pressure	57	1349	Footage Tested		14 (8) ft.
Extrapolated Static Pressure Initial		1422–1196	Mud Weight		9.6 lbs. gal.
Extrapolated Static Pressure Final		1412–1209	Viscosity, Oil or Water		cp
Slope psi/cycle Initial		225.799	Oil API Gravity		—
Slope psi/cycle Final		202.229	Water Specific Gravity		—

Remarks:

SUMMARY

Product	Equation	Gauge No. / Depth	994 INITIAL	997 FINAL	Units
Production	$Q = \frac{1440\ R}{t}$		10.631	10.040	bbls., day.
Transmissability	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$		7.648	8.043	$\frac{\text{md. ft.}}{\text{cp}}$
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$		30.595	32.169	md. ft.
Average Effective	$K = \frac{Kh}{h}$		3.824	4.021	md.
Permeability	$K_1 = \frac{Kh}{h_1}$				md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$		1.107	1.185	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$		11.776	11.902	bbls. day
Approx. Radius of Investigation	$b \leftrightarrows \sqrt{Kt}$ or $\sqrt{Kt_0}$		10.711	15.532	ft.
	$b_1 \leftrightarrows \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$				ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$				ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and elevations based thereon, Western Testing Co., Inc. is merely expressing its opinion. You agree that Western Testing Co., Inc. makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Western Testing Co., Inc. shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

INTERPRETATIONS AND CALCULATIONS

WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4898
UNIT NO.
DISTRICT 12

DATE 06/04/84

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

ROBINSON OIL COMPANY
300 W. DOUGLAS SUITE 737
WICHITA, KANSAS 67202

YOUR ORDER NO.	OWNER	CONTRACTOR

WELL NO.	FARM		SECTION	TWP.	RANGE
(B) SCHROCK	HARPER	KS	8	31S	5W

DRILL STEM TEST FROM 3622' TO 3643' TOTAL DEPTH 3643' (TEST 4) $ 550.00

TOTAL $ 550.00

DISCOUNT			INVOICE NUMBER
$ 5.50	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	4898

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET Nº 4898

Call - OK

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1345 K.B Formation K.C. Swope Eff. Pay Ft.

District ~~Great Bend~~ RAIT Date 6-4-84 Customer Order No.

R160

COMPANY NAME Robinson Oil Co.

ADDRESS ~~Suite 300 W. Douglas~~ 737 KH CARVEY Bldg., Wichita, Ks 67202-2992 ~~Suite 70~~

LEASE AND WELL NO. Schrock B #4 COUNTY Harper STATE Ks Sec. 8 Twp. 31S Rge. 5W

Mail Invoice To #4 "B" SCHROCK Co. Name same Address No. Copies Requested req

Mail Charts To same Address No. Copies Requested req

Formation Test No. 4 Interval Tested From 3622 ft. to 3643 ft. Total Depth 3643 ft.

Packer Depth 3617 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3622 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3624 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 3627 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth — ft. Recorder Number — Cap.

Drilling Contractor SWEETMAN DRLG Rig #1 Drill Collar Length 280 I. D. 2.25 in.

Mud Type Starch Viscosity 51 Weight Pipe Length — I. D. — in.

Weight 9.5 Water Loss 12 cc. Drill Pipe Length 3322 I. D. 3.8 in.

Chlorides N/C P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 21 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF 4 1/2 FH in.

Blow: Weak blow building to a strong blow on initial flow.

Recovered 1520 ft. of gas in pipe

Recovered 194 ft. of Oil & Gas cut mud.

Recovered 186 ft. of Salt water (slightly oil & gas cut.)

Recovered ft. of

Recovered ft. of

Chlorides 118,000 P.P.M. Sample Jars used 6 Remarks: Also Horner Plot! Read #6246

Time On Location 11:45 A.M. (P.M.) Time Pick Up Tool 5:45 (A.M.) P.M. Time Off Location 12:30 A.M. P.M.

Time Set Packer(s) 7:00 (A.M.) P.M. Time Started Off Bottom 10:15 ~~A.M.~~ ~~P.M.~~ Maximum Temperature 133

Initial Hydrostatic Pressure			(A)	2694	P.S.I.	
Initial Flow Period	Minutes 30		(B)	76	P.S.I. to (C)	89 P.S.I.
Initial Closed In Period	Minutes 45		(D)	1303	P.S.I.	
Final Flow Period	Minutes 60		(E)	127	P.S.I. to (F)	140 P.S.I.
Final Closed In Period	Minutes 60		(G)	1278	P.S.I.	
Final Hydrostatic Pressure			(H)	2005	P.S.I.	

RECEIVED JUN 06 1984

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [signature]
Signature of Customer or his authorized representative

Western Representative Mike Witt - Thank You!

2075

FIELD INVOICE

Open Hole Test	$ ✓550.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$ ✓ NC per LK
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ ✓550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-4 Test Ticket No. 4898

Recorder No. 6246 w/ 6074 Capacity recorder book Location Ft.

Clock No. — — — — Elevation Well Temperature °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2087 P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	91 P.S.I.	First Flow Pressure	30 Mins.	25 Mins.
C	First Final Flow Pressure	104 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D	Initial Closed-in Pressure	1314 P.S.I.	Second Flow Pressure	60 Mins.	55 Mins.
E	Second Initial Flow Pressure	152 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F	Second Final Flow Pressure	161 P.S.I.			
G	Final Closed-in Pressure	1290 P.S.I.			
H	Final Hydrostatic Mud	1985 P.S.I.			

Tester read outside chart w/ inside recorder.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	90
P 2	5	90
P 3	10	92
P 4	15	96
P 5	20	101
P 6	25	104
P 7	30	
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 17 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	104
	3	256
	6	478
	9	737
	12	972
	15	1135
	18	1204
	21	1239
	24	1262
	27	1275
	30	1285
	33	1293
	36	1299
	39	1303
	42	1307
	45	1311
	48	1314
	51	
	54	
	57	
	60	

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	152
	5	(
	10	
	15	152
	20	153
	25	154
	30	155
	35	156
	40	158
	45	160
	50	161
	55	161
	60	
	65	
	70	
	75	
	80	
	85	
	90	

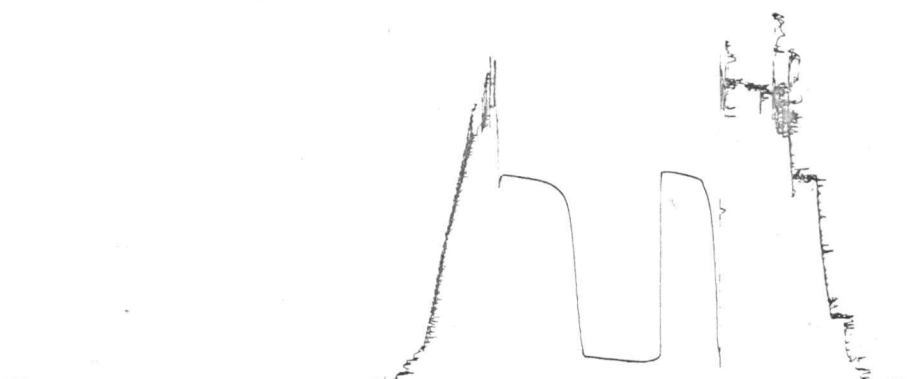
Final Shut-In
Breakdown: 22 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	161
	3	356
	6	570
	9	806
	12	992
	15	1120
	18	1175
	21	1207
	24	1223
	27	1236
	30	1247
	33	1254
	36	1260
	39	1265
	42	1270
	45	1275
	48	1278
	51	1281
	54	1284
	57	1286
	60	1288
	63	1290

#4898 6017
DST #4

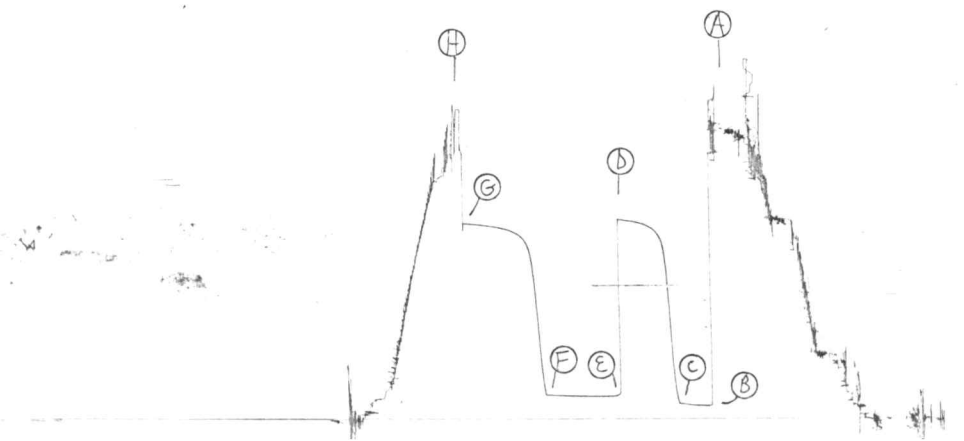
IKT # 4898

I

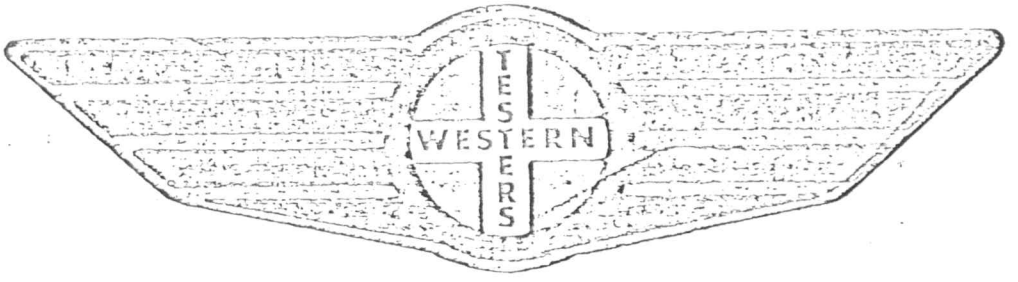


TKT # 4898

Index 4898 6LT6 DST#4



FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company ROBINSON OIL COMPANY

Lease and Well No. #4 "B" SCHROCK Sec. 8 Twp. 31S Rge. 5W

Test No. 4 Date 6/4/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/4/84 TICKET #4898
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 4 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY SWOPE
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 3622 FT TO: 3643 FT TOTAL DEPTH: 3643 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3617 FT SIZE: 6 5/8 IN PACKER DEPTH: 3622 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN
MUD TYPE: STARCH VISCOSITY: 51
WEIGHT: 9.5 WATER LOSS (CC): 7.2
CHLORIDES (P.P.M.):
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 280 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3322 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 21 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 F.H. IN

BLOW: INITIAL FLOW PERIOD; WEAK BLOW BUILDING TO A
STRONG BLOW.

RECOVERED: 1520 FT OF: GAS ABOVE FLUID
RECOVERED: 194 FT OF: OIL & GAS CUT MUD
RECOVERED: 186 FT OF: SALT WATER (SLIGHTLY OIL & GAS CUT)
RECOVERED: FT OF: CHLORIDES 118000 PPM
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 7:00 A.M. TIME STARTED OFF BOTTOM: 10:15 A.M.
WELL TEMPERATURE: 133 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2087	PSI
INITIAL FLOW PERIOD	MIN: 25	(B) 90	PSI TO (C) 104 PSI
INITIAL CLOSED IN PERIOD	MIN: 48	(D) 1314	PSI
FINAL FLOW PERIOD	MIN: 55	(E) 152	PSI TO (F) 161 PSI
FINAL CLOSED IN PERIOD	MIN: 63	(G) 1290	PSI
FINAL HYDROSTATIC PRESSURE		(H) 1985	PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 6/4/84 TICKET #4898
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 4 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY SWOPE
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2087	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	90	PSI
(C)	FIRST FINAL, FLOW PRESSURE:	104	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1314	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	152	PSI
(F)	SECOND FINAL FLOW PRESSURE:	161	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1290	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1985	PSI
WELL TEMPERATURE:		133	'F

OPEN TOOL: 7:00 A.M.

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	25	MIN
INITIAL CLOSED-IN PRESSURE:	45	MIN	48	MIN
SECOND FLOW PRESSURE:	60	MIN	55	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	63	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	90	0	104	0	152	0	161
2	5	90	3	256	5	152	3	356
3	10	92	6	478	10	152	6	570
4	15	96	9	737	15	152	9	806
5	20	101	12	972	20	153	12	992
6	25	104	15	1135	25	154	15	1120
7			18	1204	30	155	18	1175
8			21	1239	35	156	21	1207
9			24	1262	40	158	24	1223
10			27	1275	45	160	27	1236
11			30	1285	50	161	30	1247
12			33	1293	55	161	33	1254
13			36	1299			36	1260
14			39	1303			39	1265
15			42	1307			42	1270
16			45	1311			45	1275
17			48	1314			48	1278
18							51	1281
19							54	1284
20							57	1286
21							60	1288
22							63	1290
23								
24								
25								
26								
27								
28								
29								
30								

Liquid Production

B.T. Gauge Numbers		6246	Ticket Number		4898
		PRESSURE			
Initial Hydrostatic		2087	Elevation		1345 K.B. ft.
Final Hydrostatic		1985	Indicated Production	1st Flow	.649 bbls. day
	Time			Total Flow	1.220 bbls. day
1st Flow Initial	— — — —	91			
1st Flow Final	25	104	Drill Collar Length		280 ft.
Initial Closed In Pressure	48	1314	Drill Collar I.D.		2.25 in.
2nd Flow Initial	— — — —	152	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow Final	55	162	Hole Size		7.875 in.
Final Closed In Pressure	63	1290	Footage Tested		21 ft.
Extrapolated Static Pressure Initial		1374–1085	Mud Weight		9.5 lbs. gal.
Extrapolated Static Pressure Final		1333–1179	Viscosity, Oil or Water		51 cp
Slope psi/cycle Initial		288.401	Oil API Gravity		—
Slope psi/cycle Final		154.529	Water Specific Gravity		—

Remarks:

SUMMARY

Gauge No.
Depth

Product	Equation	INITIAL	FINAL	Units
Production	$Q = \frac{1440\ R}{t}$	37.421	29.294	bbls., day,
Transmissability	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$	21.054	30.930	md. ft. / cp
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$	84.218	123.723	md. ft.
Average Effective	$K = \frac{Kh}{h}$	10.527	15.465	md.
Permeability	$K_1 = \frac{Kh}{h_1}$			md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$	.804	1.391	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$	DR Less than one	40.764	bbls. day
Approx. Radius of Investigation	$b \leftrightarrows \sqrt{Kt}$ or $\sqrt{Kt_0}$	16.222	30.461	ft.
	$b_1 \leftrightarrows \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$			ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$			ft.

INTERPRETATIONS AND CALCULATIONS

WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4899
UNIT NO.
DISTRICT 12

DATE 06/04/84

ROBINSON OIL COMPANY
300 W. DOUGLAS SUITE 737
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR

WELL NO.	FARM			SECTION	TWP.	RANGE
4	SCHROCK "B"	HARPER	KS	8	31S	5W

DRILL STEM TEST FROM 3656' TO 3676' TOTAL DEPTH 3676' (TEST 5) $ 550.00

TOTAL $ 550.00

DISCOUNT	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER
$ 5.50			4899

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET No. 4899

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1345 K.B. Formation Kansas City (Hertha) Eff. Pay ____ Ft.

R16W 12 District PRATT Date 6-4-84 Customer Order No. ____

COMPANY NAME Robinson Oil Co.

ADDRESS 737 Fourth Garvey Bldg., Wichita, Ks. 67214-2992 300 N. Douglas

LEASE AND WELL NO. SCHROCK "B" #4 COUNTY HARPER STATE Ks Sec. 8 Twp. 31S Rge. 5W

Mail Invoice To Co. Name SAME Address No. Copies Requested REG

Mail Charts To #4 "B" SCHROCK Address SAME No. Copies Requested REG

Formation Test No. 5 Interval Tested From 3656 ft. to 3676 ft. Total Depth 3676 ft.

Packer Depth 3651 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3656 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3638 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 3646 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor SWEETMAN DRLG. CO. Rig #1 Drill Collar Length 280 I. D. 2.25 in.

Mud Type STARCH Viscosity 42 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 10 cc. Drill Pipe Length 3356 I. D. 3.8 in.

Chlorides N/C. P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF 4 1/2 FH in.

Blow: Weak blow building to strong blow on initial flow. Strong blow through final flow.

Recovered 130 ft. of Oil & Gas cut watery mud. (10% gas 10% oil 30% water 50% mud.)

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Chlorides 91,000 P.P.M. Sample Jars used 2 Remarks: ~~Also Horner Plot~~ (Clock stop #6074.)

Time On Location 4:35 A.M. (P.M.) Time Pick Up Tool 7:50 A.M. (P.M.) Time Off Location 2:20 (A.M.) P.M.

Time Set Packer(s) 9:05 A.M. (P.M.) Time Started Off Bottom 12:20 (A.M.) P.M. Maximum Temperature 134°

Initial Hydrostatic Pressure		(A)	1915	P.S.I.	
Initial Flow Period	Minutes 30	(B)	51	P.S.I. to (C)	51 P.S.I.
Initial Closed In Period	Minutes 45	(D)	1314	P.S.I.	
Final Flow Period	Minutes 60	(E)	76	P.S.I. to (F)	74 P.S.I.
Final Closed In Period	Minutes 60	(G)	1316	P.S.I.	
Final Hydrostatic Pressure		(H)	1813	P.S.I.	

RECEIVED JUN 07 1984

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By ____
Signature of Customer or his authorized representative

Western Representative Mike Pitt - Thank You. 1205

FIELD INVOICE

Open Hole Test	$ ✓ 550.00
Misrun	$ ____
Straddle Test	$ ____
Jars	$ ____
Selective Zone	$ ____
Safety Joint	$ ____
Standby	$ ____
Evaluation	$ ✓ (0)
Extra Packer	$ ____
Circ. Sub.	$ ____
Mileage	$ ____
Fluid Sampler	$ ____
Extra Charts	$ ____
Insurance	$ ____
Telecopier	$ ____
TOTAL	$ ✓ 550.00

Liquid Production

B.T. Gauge Numbers		6074	Ticket Number		4899
		PRESSURE	Elevation		1345 K.B ft.
Initial Hydrostatic		1901	Indicated Production	1st Flow	.147 bbls. day
Final Hydrostatic		1806		Total Flow	.492 bbls. day
1st Flow	Initial	Time ---- 59	Drill Collar Length		280 ft.
	Final	30 59	Drill Collar I.D.		2.25 in.
Initial Closed In Pressure		42 1490	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow	Initial	---- 97	Hole Size		7.875 in.
	Final	60 102	Footage Tested		20 ft.
Final Closed In Pressure		60 1485	Mud Weight		9.4 lbs. gal.
Extrapolated Static Pressure	Initial	1524 - 1375	Viscosity, Oil or Water		42 cp
	Final	1504 - 1440	Oil API Gravity		—
Slope psi/cycle	Initial	149.119	Water Specific Gravity		—
	Final	63.492			

Remarks:

SUMMARY

Gauge No.
Depth

Product	Equation	INITIAL	FINAL	Units
Production	$Q = \frac{1440\ R}{t}$	7.087	11.812	bbls., day.
Transmissability	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$	7.734	30.011	md. ft. / cp .
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$	30.937	120.044	md. ft.
Average Effective	$K = \frac{Kh}{h}$	3.867	15.005	md.
Permeability	$K_1 = \frac{Kh}{h_1}$	—	—	md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$	1.799	4.008	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$	12.752	47.354	bbls. day
Approx. Radius of Investigation	$b \leftrightarrows \sqrt{Kt}$ or $\sqrt{Kt_0}$	10.771	30.005	ft.
	$b_1 \leftrightarrows \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$	—	—	ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$	—	—	ft.

INTERPRETATIONS AND CALCULATIONS

WESTERN TESTING CO., INC.
Pressure Data

Date 6-4-84 Test Ticket No. 4899

Recorder No. 6246 Capacity Location Ft.

Clock No. — — — — Elevation Well Temperature °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	1901	P.S.I.	Open Tool	M		
B	First Initial Flow Pressure	59	P.S.I.	First Flow Pressure	30 Mins.	30	Mins.
C	First Final Flow Pressure	59	P.S.I.	Initial Closed-in Pressure	45 Mins.	42	Mins.
D	Initial Closed-in Pressure	1490	P.S.I.	Second Flow Pressure	60 Mins.	60	Mins.
E	Second Initial Flow Pressure	97	P.S.I.	Final Closed-in Pressure	60 Mins.	60	Mins.
F	Second Final Flow Pressure	102	P.S.I.				
G	Final Closed-in Pressure	1485	P.S.I.				
H	Final Hydrostatic Mud	1806	P.S.I.				

Read outside chart!

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.		Press.
P 1	0	59
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	59
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes		Press.
0		59
3		84
6		164
9		305
12		605
15		974
18		1254
21		1389
24		1439
27		1463
30		1476
33	1.9	1483
36	1.83	1486
39	1.76	1488
42	1.71	1490
45		
48		
51		
54		
57		
60		

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	97
5	
10	
15	
20	
25	
30	
35	
40	97
45	98
50	98
55	100
60	102
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

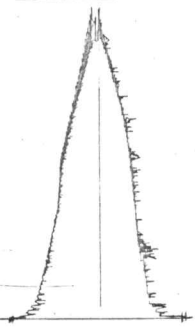
Point Minutes		Press.
0		102
3		123
6		199
9		337
12		576
15		902
18		1192
21		1347
24		1414
27		1442
30		1461
33		1469
36		1472
39		1475
42		1478
45		1481
48	2.25	1482
51	2.17	1483
54	2.11	1484
57	2.05	1485
60	2	1485

WTC - 4

IKT #4894

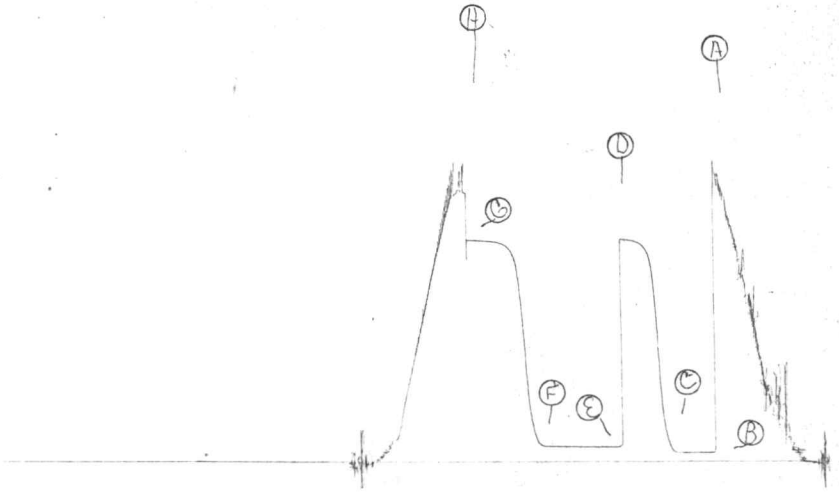
6021 4
DST #5

I

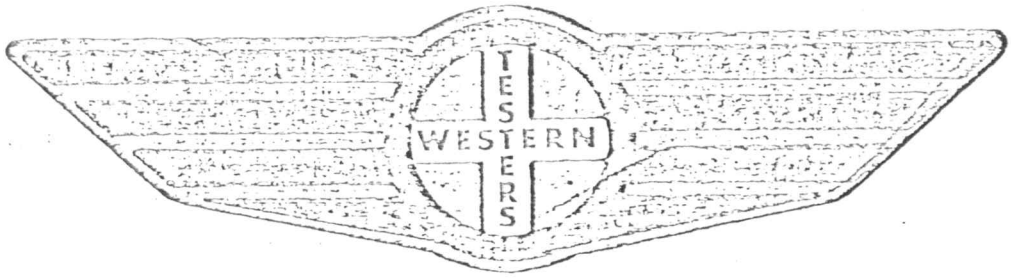


TKT # 4899

6246
DST #5



FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company RUBINSON OIL COMPANY

Lease and Well No. #4 B SCHROCK

Sec. 8 Twp. 31S Rge. 3W

Test No. 3 Date 8/4/04

WESTERN TESTING CO., INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/4/84 TICKET #4899
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 5 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY-HERTHA
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 3656 FT TO: 3676 FT TOTAL DEPTH: 3676 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3651 FT SIZE: 6 5/8 IN PACKER DEPTH: 3656 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN DRLG
MUD TYPE: STARCH VISCOSITY: 42
WEIGHT: 9.4 WATER LOSS (CC): 10.0
CHLORIDES (P.P.M.):
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	280	FT	I.D.: 2.25	IN	
WEIGHT PIPE LENGTH:		FT	I.D.:	IN	
DRILL PIPE LENGTH:	3356	FT	I.D.: 3.8	IN	
TEST TOOL LENGTH:	20	FT	TOOL SIZE: 5 1/2	IN	
ANCHOR LENGTH:	20	FT	SIZE: 5 1/2	IN	
SURFACE CHOKE SIZE:	3/4	IN	BOTTOM CHOKE SIZE: 3/4	IN	
MAIN HOLE SIZE:	7 7/8	IN	TOOL JOINT SIZE: 4 1/2 FH	IN	

BLOW: INITIAL FLOW PERIOD WEAK BLOW
BUILDING TO A STRONG BLOW.
FINAL FLOW PERIOD STRONG BLOW.

RECOVERED:	130	FT	OF: OIL & GAS CUT WATERY MUD.
RECOVERED:		FT	OF: 10% GAS; 10% OIL; 30% WATER; 50% MUD.
RECOVERED:		FT	OF: CHLORIDES 41000 PPM.
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:

REMARKS: CLOCK STOPPED ON CHART #6074.
READ OUTSIDE CHART.

TIME SET PACKER(S): 9:05 PM TIME STARTED OFF BOTTOM: 12:20 AM
WELL TEMPERATURE: 134 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1901	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 59	PSI TO (C) 59	PSI
INITIAL CLOSED IN PERIOD	MIN: 42	(D) 1490	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 97	PSI TO (F) 102	PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 1485	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1806	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/4/84 TICKET #4899
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 5 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: KANSAS CITY-HERTHA
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1901	PSI
(B) FIRST INITIAL FLOW PRESSURE:	59	PSI
(C) FIRST FINAL FLOW PRESSURE:	59	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1490	PSI
(E) SECOND INITIAL FLOW PRESSURE:	97	PSI
(F) SECOND FINAL FLOW PRESSURE:	102	PSI
(G) FINAL CLOSED-IN PRESSURE:	1485	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1806	PSI
WELL TEMPERATURE:	134	'F

OPEN TOOL: 9:05 PM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	45 MIN	42 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	59	0	59	0	97	0	102
2	5	59	3	84	5	97	3	123
3	10	59	6	164	10	97	6	199
4	15	59	9	305	15	97	9	337
5	20	59	12	605	20	97	12	576
6	25	59	15	974	25	97	15	902
7	30	59	18	1254	30	97	18	1192
8			21	1389	35	97	21	1347
9			24	1439	40	97	24	1414
10			27	1463	45	98	27	1442
11			30	1476	50	99	30	1461
12			33	1483	55	100	33	1469
13			36	1486	60	102	36	1472
14			39	1488			39	1475
15			42	1490			42	1478
16							45	1481
17							48	1482
18							51	1483
19							54	1484
20							57	1485
21							60	1485
22								
23								
24								
25								
26								
27								
28								
29								
30								

Liquid Production

B.T. Gauge Numbers		6074	Ticket Number		4899
		PRESSURE			
Initial Hydrostatic		1901	Elevation		1345 K.B.ft.
Final Hydrostatic		1806	Indicated Production	1st Flow	.147 bbls. day
	Time			Total Flow	.492 bbls. day
1st Flow Initial	— — — —	59			
1st Flow Final	30	59	Drill Collar Length		280 ft.
Initial Closed In Pressure	42	1490	Drill Collar I.D.		2.25 in.
2nd Flow Initial	— — — —	97	Drill Pipe Factor		.0142 bbls. ft.
2nd Flow Final	60	102	Hole Size		7.875 in.
Final Closed In Pressure	60	1485	Footage Tested		20 ft.
Extrapolated Static Pressure Initial		1524–1375	Mud Weight		9.4 lbs. gal.
Extrapolated Static Pressure Final		1504–1440	Viscosity, Oil or Water		42 cp
Slope psi/cycle Initial		149.119	Oil API Gravity		—
Slope psi/cycle Final		63.492	Water Specific Gravity		—

Remarks:

SUMMARY

Gauge No. / Depth

Product	Equation	INITIAL	FINAL	Units
Production	$Q = \frac{1440\ R}{t}$	7.087	11.812	bbls., day,
Transmissibility	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$	7.734	30.011	$\frac{\text{md. ft.}}{\text{cp}}$
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$	30.937	120.044	md. ft.
Average Effective Permeability	$K = \frac{Kh}{h}$	3.867	15.005	md.
	$K_1 = \frac{Kh}{h_1}$	-----	------	md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$	1.799	4.008	—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$	12.752	47.354	bbls. day
Approx. Radius of Investigation	$b \leftrightarrows \sqrt{Kt}$ or $\sqrt{Kt_0}$	10.771	30.005	ft.
	$b_1 \leftrightarrows \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$	------	------	ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$	------	------	ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and elevations based thereon, Western Testing Co., Inc. is merely expressing its opinion. You agree that Western Testing Co., Inc. makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Western Testing Co., Inc. shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

INTERPRETATIONS AND CALCULATIONS

WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 4900
UNIT NO.
DISTRICT 12

DATE 06/08/84

ROBINSON OIL COMPANY
300 W. DOUGLAS SUITE 737
WICHITA, KANSAS 67202

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR

WELL NO.	FARM			SECTION	TWP.	RANGE
4	"B" SCHROCK	HARPER	KS	8	31S	5W

DRILL STEM TEST FROM 4568' TO 4584' TOTAL DEPTH 4584' (TEST 6) $ 595.00

TOTAL $ 595.00

DISCOUNT			INVOICE NUMBER
$ 5.95	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	4900

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET Nº 4900

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1345 KB Formation Simpson Eff. Pay Ft.

District PRATT Date 6-8-84 Customer Order No.

COMPANY NAME Robinson Oil Company 300 W. Douglas

ADDRESS 737 434 R.H. Garvey Bldg., Wichita, Ks 67202-2992

LEASE AND WELL NO. Schrock "B" #4 COUNTY Harper STATE Ks Sec. 8 Twp. 31S Rge. 5W

Mail Invoice To #4 "B" SCHROCK Co. Name SAME Address No. Copies Requested req

Mail Charts To SAME Address No. Copies Requested req

Formation Test No. 6 Interval Tested From 4568 ft. to 4584 ft. Total Depth 4584 ft.

Packer Depth 4563 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4568 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4570 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 4573 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Sweetman Drlg Co Rig #1

Mud Type Starch Viscosity 47

Weight 9.5 Water Loss 10.0 cc.

Chlorides N/C P.P.M.

Jars: Make — Serial Number —

Did Well Flow? No Reversed Out Yes

Drill Collar Length 280 I. D. 2.25 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 4268 I. D. 3.8 in.

Test Tool Length 20 ft. Tool Size 5 1/2 in.

Anchor Length 16 ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF 4 1/2 FH in.

Blow: Weak building to a strong blow on initial flow. strong blow through out final flow.

Recovered 3600 ft. of Salt water (Mud & gas cut)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 44,000 P.P.M. Sample Jars used 1 Remarks: ~~Also: Horner Plot!~~

RECEIVED JUN 11 1984

Time On Location 6:00 A.M. P.M. Time Pick Up Tool 6:30 A.M. P.M. Time Off Location 3:20 A.M. P.M.

Time Set Packer(s) 8:05 A.M. P.M. Time Started Off Bottom 11:20 A.M. P.M. Maximum Temperature 152°

Initial Hydrostatic Pressure			(A)	2503	P.S.I.	
Initial Flow Period	Minutes	30	(B)	255	P.S.I. to (C)	959 P.S.I.
Initial Closed In Period	Minutes	45	(D)	1756	P.S.I.	
Final Flow Period	Minutes	60	(E)	1048	P.S.I. to (F)	1711 P.S.I.
Final Closed In Period	Minutes	60	(G)	1764	P.S.I.	
Final Hydrostatic Pressure			(H)	2312	P.S.I.	

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [signature]
Signature of Customer or his authorized representative

Western Representative Mike Litt — Thank You!

2075

FIELD INVOICE

Open Hole Test	$ ✓595
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$ ✓
Extra Packer	$
Circ. Sub.	$ Sweetman Co. Sub
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$ ✓

WESTERN TESTING CO., INC.
Pressure Data

Date 6-8-84 Test Ticket No. 4900

Recorder No. 6074 Capacity Location Ft.

Clock No. Elevation Well Temperature °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2493 P.S.I.		Open Tool	M	
B	First Initial Flow Pressure	260 P.S.I.		First Flow Pressure	30 Mins.	Mins.
C	First Final Flow Pressure	991 P.S.I.		Initial Closed-in Pressure	45 Mins.	Mins
D	Initial Closed-in Pressure	1759 P.S.I.		Second Flow Pressure	60 Mins.	Mins
E	Second Initial Flow Pressure	1054 P.S.I.		Final Closed-in Pressure	60 Mins.	Mins
F	Second Final Flow Pressure	1752 P.S.I.				
G	Final Closed-in Pressure	1765 P.S.I.				
H	Final Hydrostatic Mud	2315 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.		Press.
P 1	0	260
P 2	5	406
P 3	10	569
P 4	15	714
P 5	20	836
P 6	25	949
P 7	30	991
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	991
3	1734
6	1747
9	1754
12	1759
15	1759
18	
21	
24	
27	
30	1759
33	
36	
39	
42	
45	1759
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 14 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1054
5	1097
10	1184
15	1286
20	1361
25	1439
30	1509
35	1568
40	1614
45	1652
50	1681
55	1706
60	1729
65	1752
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1752
3	1758
6	1763
9	
12	
15	1763
18	1764
21	
24	
27	
30	1764
33	1765
36	
39	
42	
45	1765
48	
51	
54	
57	
60	1765

TKT #4400

6074
DST #6

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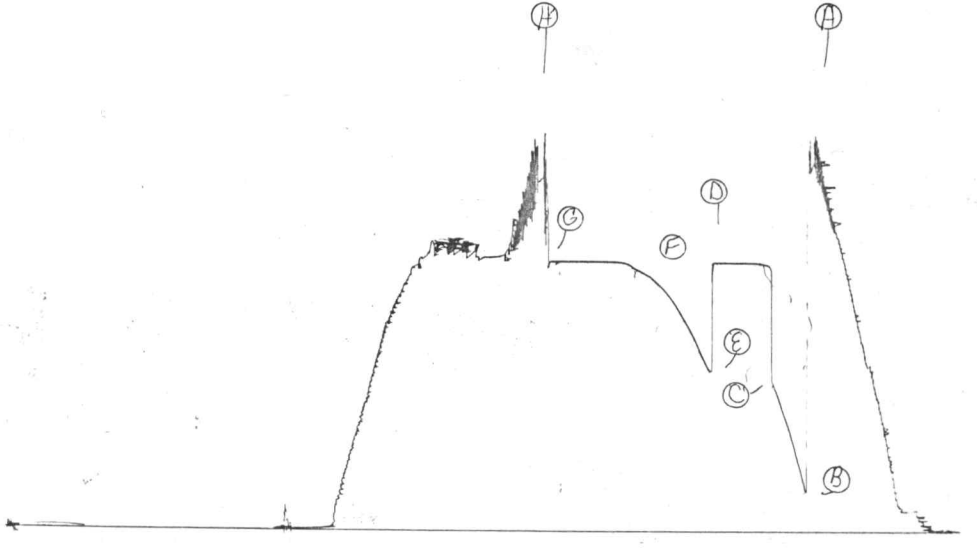
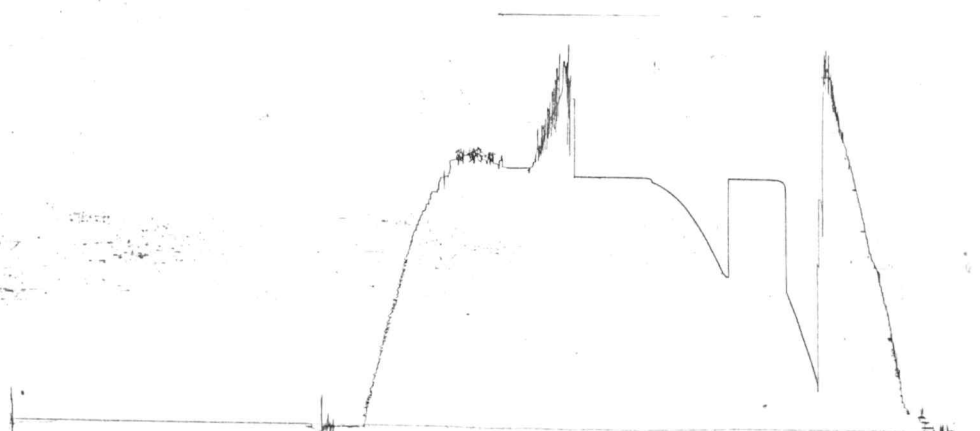
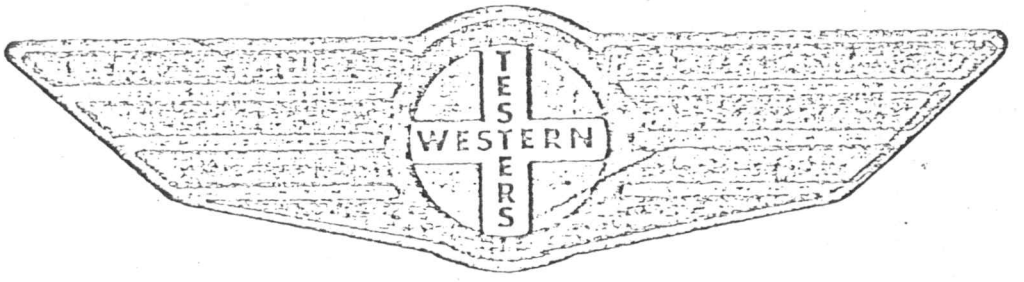


TKT # 4400

DST #6



FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company ROBINSON OIL COMPANY

Lease and Well No. #4 "B" SCHROCK Sec. 8 Twp. 31S Rge. 5W Test No. 6 Date 6/8/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/8/84 TICKET #4900
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 6 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: SIMPSON
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 4568 FT TO: 4584 FT TOTAL DEPTH: 4584 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4563 FT SIZE: 6 5/8 IN PACKER DEPTH: 4568 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN DRLG
MUD TYPE: STARCH VISCOSITY: 47
WEIGHT: 9.5 WATER LOSS (CC): 10.0
CHLORIDES (P.P.M.):
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? YES

DRILL COLLAR LENGTH:	280	FT	I.D.: 2.25	IN	
WEIGHT PIPE LENGTH:		FT	I.D.:	IN	
DRILL PIPE LENGTH:	4268	FT	I.D.: 3.8	IN	
TEST TOOL LENGTH:	20	FT	TOOL SIZE: 5 1/2	IN	
ANCHOR LENGTH:	16	FT	SIZE: 5 1/2	IN	
SURFACE CHOKE SIZE:	3/4	IN	BOTTOM CHOKE SIZE: 3/4	IN	
MAIN HOLE SIZE:	7 7/8	IN	TOOL JOINT SIZE: 4 1/2 FH	IN	

BLOW: INITIAL FLOW PERIOD WEAK BLOW
BUILDING TO A STRONG BLOW.
FINAL FLOW PERIOD STRONG BLOW.

RECOVERED:	3600	FT	OF: SALT WATER. (MUD & GAS CUT)
RECOVERED:		FT	OF: CHLORIDES 44000 PPM.
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:

REMARKS:

TIME SET PACKER(S): 8:05 AM TIME STARTED OFF BOTTOM: 11:20 AM
WELL TEMPERATURE: 152 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2493	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 260	PSI TO (C) 991	PSI
INITIAL CLOSED IN PERIOD	MIN: 45	(D) 1759	PSI	
FINAL FLOW PERIOD	MIN: 65	(E) 1054	PSI TO (F) 1752	PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 1765	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2315	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/8/84 TICKET #4900
CUSTOMER: ROBINSON OIL COMPANY LEASE: "B" SCHROCK
WELL: 4 TEST: 6 GEOLOGIST: SMITH
ELEVATION (KB): 1345 FORMATION: SIMPSON
SECTION: 8 TOWNSHIP: 31S
RANGE: 5W COUNTY: HARPER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2493	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	260	PSI
(C)	FIRST FINAL FLOW PRESSURE:	991	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1759	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	1054	PSI
(F)	SECOND FINAL FLOW PRESSURE:	1752	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1765	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2315	PSI
WELL TEMPERATURE:		152	'F

OPEN TOOL: 8:05 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	45	MIN	45	MIN
SECOND FLOW PRESSURE:	60	MIN	65	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	60	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	260	0	991	0	1054	0	1752
2	5	406	3	1734	5	1097	3	1758
3	10	569	6	1747	10	1184	6	1763
4	15	714	9	1754	15	1286	9	1763
5	20	836	12	1759	20	1361	12	1763
6	25	949	15	1759	25	1439	15	1763
7	30	991	18	1759	30	1509	18	1764
8			21	1759	35	1568	21	1764
9			24	1759	40	1614	24	1764
10			27	1759	45	1652	27	1764
11			30	1759	50	1681	30	1764
12			33	1759	55	1706	33	1765
13			36	1759	60	1729	36	1765
14			39	1759	65	1752	39	1765
15			42	1759			42	1765
16			45	1759			45	1765
17							48	1765
18							51	1765
19							54	1765
20							57	1765
21							60	1765
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