WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET Nº 10430

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

Elevation 1410 KB Formation Tark. Eff. Pay Ft.

District Augusta Date 7-28-81 Customer Order No.

COMPANY NAME Robinson Oil Company Suite 737
ADDRESS R. H. Garvey Building 300 west Douglas Wichita Ks 67202
LEASE AND WELL NO. Kastens OWWO COUNTY Harper STATE KS Sec 27 Twp 33S Rge 8W
Mail Invoice To Same Co. Name Kastens O.B. Gas Unit #1 Address No. Copies Requested 1
Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2674 ft. to 2716 ft. Total Depth 2716 ft.
Packer Depth 2674 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2669 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 2679 ft. Recorder Number 3666 Cap. 3950
Bottom Recorder Depth (Outside) 2684 ft. Recorder Number 3354 Cap. 4200
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Sweetman Drilling INC. Drill Collar Length 280 I. D. in.
Mud Type Viscosity 42 Weight Pipe Length I. D. in.
Weight 9.0 Water Loss cc. Drill Pipe Length 2364 I. D. in.
Chlorides P.P.M. Test Tool Length 27 ft. Tool Size 4½ in.
Jars: Make WTC Serial Number NA. Anchor Length 42 ft. Size 4½ 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 4½ XH in.

Blow: Weak died 5 min into 1st opening, Flushed tool 2nd opening Surge as tool opened for blow. Slid 3' to bottom

Recovered 3 ft. of Drilling Mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

RECEIVED JUL 30 1980

Time On Location 1:00 7:28 A.M. P.M. Time Pick Up Tool 2:30 A.M. P.M. Time Off Location A.M. P.M.
Time Set Packer(s) 4:00 A.M. P.M. Time Started Off Bottom 4:40 A.M. P.M. Maximum Temperature 107°

Initial Hydrostatic Pressure			(A) 1276	P.S.I.		
Initial Flow Period	Minutes 10	(B) 31	P.S.I. to	(C) 31	P.S.I.	
Initial Closed In Period	Minutes 10	(D) 31	P.S.I.			
Final Flow Period	Minutes 10	(E) 31	P.S.I. to	(F) 31	P.S.I.	
Final Closed In Period	Minutes 10	(G) 63	P.S.I.			
Final Hydrostatic Pressure		(H) 1276	P.S.I.			

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 Ray Goodin
Signature of Customer or his authorized representative

Western Representative Robert Davis

FIELD INVOICE

Open Hole Test	$	625.00
Misrun	$	
Straddle Test	$	
Jars	$	300.00
Selective Zone	$	
Safety Joint	$	65.00
Standby	$	
Evaluation	$	
Extra Packer	$	
Circ. Sub.	$	
104 Mileage	$	78.00
Fluid Sampler	$	
Extra Charts	$	
Insurance	$	50.00
TOTAL	$	1118.00

WESTERN TESTING CO., INC.
Pressure Data

Date 7-28 | Test Ticket No. 10430

Recorder No. 5666 | Capacity 3950 | Location 2679 Ft.

Clock No. ——— | Elevation 1410 KB | Well Temperature 107 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1307	P.S.I.	Open Tool	4:00 PM	
B	First Initial Flow Pressure	31	P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	31	P.S.I.	Initial Closed-in Pressure	10 Mins.	9 Mins.
D	Initial Closed-in Pressure	31	P.S.I.	Second Flow Pressure	10 Mins.	10 Mins.
E	Second Initial Flow Pressure	31	P.S.I.	Final Closed-in Pressure	10 Mins.	9 Mins.
F	Second Final Flow Pressure	34	P.S.I.			
G	Final Closed-in Pressure	86	P.S.I.			
H	Final Hydrostatic Mud	1307	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 2 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	31
P 2	5	31
P 3	10	31
P 4	15	
P 5	20	
P 6	25	
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: 3 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	31
	3	
	6	
	9	31
	12	
	15	
	18	
	21	
	24	
	27	
	30	
	33	
	36	
	39	
	42	
	45	
	48	
	51	
	54	
	57	
	60	

Second Flow Pressure

Breakdown: 2 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	31
	5	Flushed 35 Tool
	10	34
	15	
	20	
	25	
	30	
	35	
	40	
	45	
	50	
	55	
	60	
	65	
	70	
	75	
	80	
	85	
	90	

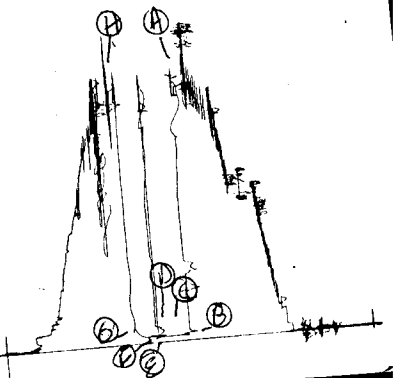
Final Shut-In

Breakdown: 3 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	34
	3	37
	6	47
	9	86
	12	
	15	
	18	
	21	
	24	
	27	
	30	
	33	
	36	
	39	
	42	
	45	
	48	
	51	
	54	
	57	
	60	

Pkt # 10430

1



Company Robinson Oil Company — Lease & Well No. Kastens D. B. Gas Unit #1

Elevation 1410 Kelly Bushing — Formation Tarkio — Effective Pay --- Ft. — Ticket No. 10430

Date 7/28/81 — Sec. 27 — Twp. 33S — Range 8W — County Harper — State Kansas

Test Approved by Ray Goodin — Western Representative Robert Davis

Formation Test No. 1 — Interval Tested from 2674 ft. to 2716 ft. — Total Depth 2716 ft.

Packer Depth 2674 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 2669 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2679 ft. — Recorder Number 5666 — Cap. 3950

Bottom Recorder Depth (Outside) 2684 ft. — Recorder Number 3354 — Cap. 4200

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

Drilling Contractor Sweetman Drilling, Inc. — Drill Collar Length 280 — I. D. - in.

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

Weight 9.0 — Water Loss - cc. — Drill Pipe Length 2364 — I. D. - in.

Chlorides - P.P.M. — Test Tool Length 27 ft. — Tool Size 4½ in.

Jars: Make WTC — Serial Number 414 — Anchor Length 42 ft. — Size 4½ 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 4½XH in.

Blow: Weak; died five minutes into initial flow period. Flushed tool final flow period. surege as tool opened - no blow. Slid three feet to bottom.

Recovered 3 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:00 ~~A.M.~~ P.M. — Time Started Off Bottom 4:40 A.M. P.M. — Maximum Temperature 107°

Initial Hydrostatic Pressure			(A) 1307	P.S.I.		
Initial Flow Period	Minutes 10	(B) 31	P.S.I. to	(C) 31	P.S.I.	
Initial Closed In Period	Minutes 9	(D) 31	P.S.I.			
Final Flow Period	Minutes 10	(E) 31	P.S.I. to	(F) 34	P.S.I.	
Final Closed In Period	Minutes 9	(G) 86	P.S.I.			
Final Hydrostatic Pressure			(H) 1307	P.S.I.		

WTC

WESTERN TESTING CO., INC.
Pressure Data

Date 7/28/81 | Test Ticket No. 10430

Recorder No. 5666 | Capacity 3950 | Location 2679 Ft.

Clock No. - | Elevation 1410 Kelly Bushing | Well Temperature 107 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1307	P.S.I.
B	First Initial Flow Pressure	31	P.S.I.
C	First Final Flow Pressure	31	P.S.I.
D	Initial Closed-in Pressure	31	P.S.I.
E	Second Initial Flow Pressure	13	P.S.I.
F	Second Final Flow Pressure	34	P.S.I.
G	Final Closed-in Pressure	86	P.S.I.
H	Final Hydrostatic Mud	1307	P.S.I.

	Time Given	Time Computed
Open Tool	4:00P M	
First Flow Pressure	10 Mins.	10 Mins.
Initial Closed-in Pressure	10 Mins.	9 Mins.
Second Flow Pressure	10 Mins.	10 Mins.
Final Closed-in Pressure	10 Mins.	9 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	31
P 2 5	31
P 3 10	31
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	31
3	31
6	31
9	31

Second Flow Pressure
Breakdown: 2 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	31
5	35
10	34

Flushed tool

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

Point Minutes	Press.
0	34
3	37
6	47
9	86