15-077-21350

Ricketts Testing, Inc.

ORIGINAL

Company OIL PRODUCERS, INC. OF KANSAS — Lease & Well No. CAROTHERS "E" #1

Elevation 1343 K.B. — Formation MISSISSIPPI — Effective Pay ____ ft. — Ticket No. 1883

Date 2-21-98 — Sec. 15 — Twp. 33S — Range 6W — County HARPER — State KANSAS

Test Approved by BILL SHEPHERD — Ricketts Representative JIM RICKETTS

Formation Test No. 2 — Interval Tested from 4436 ft. to 4467 ft. — Total Depth 4467 ft.

Packer Depth 4436 ft. — Size 6 3/4 in. — Packer Depth ____ ft. — Size ____ in.

Packer Depth 4433 ft. — Size 6 3/4 in. — Packer Depth ____ ft. — Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 4441 ft. — Recorder Number 13307 — Cap. 4650

Bottom Recorder Depth (Outside) 4444 ft. — Recorder Number 13306 — Cap. 4625

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

Drilling Contractor Duke Drilling Rig #2 — Drill Collar Length ____ — I.D. ____ in.

Mud Type Chemical — Viscosity 44 — Weight Pipe Length ____ — I.D. ____ in.

Weight 9.4 — Water Loss 12.0 cc. — Drill Pipe Length 4385 — I.D. 3.25 in.

Chlorides 3400 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make ____ — Serial Number ____ — Anchor Length 31 ft. — Size 5½ in.

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

Gravity Oil ____ — Main Hole Size 7 7/8 in. — Tool Joint Size 4½xh in.

Blow: Strong blow Initial Flow Period. Gas to surface in 13 minutes.
Gauged 69,500 CFPD

Recovered 30 ft. of Mud.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

Time Set Packer (s) 3:54 A.M. — Time Started Off Bottom 6:39 A.M. — Maximum Temperature 117°

Initial Hydrostatic Pressure ..... (A) 2207 P.S.I.

Initial Flow Period ..... Minutes 45 — (B) 29 P.S.I. to (C) 29 P.S.I.

Initial Closed In Period ..... Minutes 30 — (D) 1456 P.S.I.

Final Flow Period ..... Minutes 30 — (E) 29 P.S.I. to (F) 29 P.S.I.

Final Closed In Period ..... Minutes 60 — (G) 1484 P.S.I.

Final Hydrostatic Pressure ..... (H) 2181 P.S.I.

RICKETTS TESTING, INC.

Pressure Data

Date 2-21-98 Test Ticket No. 1883

Recorder No. 13306 Capacity 4625 Location 4444 Ft.

Clock No. Elevation 1343 K.B. Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2207 P.S.I.	Open Tool	3:54 AM	
B First Initial Flow Pressure	29 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	29 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1456 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	29 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	29 P.S.I.			
G Final Closed-in Pressure	1484 P.S.I.			
H Final Hydrostatic Mud	2181 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of Min.

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

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

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

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	29		0	29		0	29		0	29
P 2	5	29		3	1112		5	29		3	1135
P 3	10	29		6	1315		10	29		6	1349
P 4	15	29		9	1381		15	29		9	1381
P 5	20	29		12	1405		20	29		12	1405
P 6	25	29		15	1426		25	29		15	1426
P 7	30	29		18	1439		30	29		18	1439
P 8	35	29		21	1450		35			21	1448
P 9	40	29		24	1452		40			24	1455
P10	45	29		27	1454		45			27	1459
P11	50			30	1456		50			30	1463
P12	55			33			55			33	1470
P13	60			36			60			36	1475
P14	65			39			65			39	1477
P15	70			42			70			42	1478
P16	75			45			75			45	1479
P17	80			48			80			48	1480
P18	85			51			85			51	1481
P19	90			54			90			54	1482
P20	95			57						57	1483
				60						60	1484

Ricketts Testing

GAS FLOW REPORT

Date 2-21-98 Ticket 1883 Company Oil Producers, Inc. of Kansas

Well Name and No. Carothers "E" Dst No. 1 Interval Tested 4436-4467

County Harper State Kansas Sec. 15 Twp. 33S Rg. 6W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
3/4" Orifice				**PRE FLOW**		
4:19AM	25	14 IOW				53,300 CFPD
4:29-	35	16 IOW				56,800 CFPD
4:39	45	18 IOW				60,200 CFPD
		GAS TO SURFACE IN 13 MINUTES INITIAL FLOW PERIOD				
34/" Orifice				**SECOND FLOW**		
5:19AM	10	24 IOW				69,500 CFPD
5:29	20	22 IOW				66,500 CFPD
5:39	30	22 IOW				66,600 CFPD

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure steel gas bottles. Ricketts Testing shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Ricketts Testing within thirty (30) days free of charge or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

FORM 6

ORIGINAL

Ricketts Testing, Inc.

Company OIL PRODUCERS, INC. OF KANSAS — Lease & Well No. CAROTHERS "E" #1

Elevation 1343 K.B. — Formation MISSISSIPPI — Effective Pay ____ ft. — Ticket No. 1882

Date 2-21-98 — Sec. 15 — Twp. 33S — Range 6W — County HARPER — State KANSAS

Test Approved by BILL SHEPHERD — Ricketts Representative JIM RICKETTS

Formation Test No. 1 — Interval Tested from 4426 ft. to 4467 ft. — Total Depth 4467 ft.

Packer Depth 4426 ft. — Size 6 3/4 in. — Packer Depth ____ ft. — Size ____ in.

Packer Depth 4423 ft. — Size 6 3/4 in. — Packer Depth ____ ft. — Size ____ in.

Depth of Selective Zone Set ____ — 15-077-21350

Top Recorder Depth (Inside) 4431 ft. — Recorder Number 13307 — Cap. 4650

Bottom Recorder Depth (Outside) 4434 ft. — Recorder Number 13306 — Cap. 4625

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

Drilling Contractor Duke Drilling Rig #2 — Drill Collar Length ____ — I.D. ____ in.

Mud Type Chemical — Viscosity 44 — Weight Pipe Length ____ — I.D. ____ in.

Weight 9.4 — Water Loss 12.0 cc. — Drill Pipe Length 4406 — I.D. 3.25 in.

Chlorides 3400 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½ in.

Jars: Make ____ Serial Number ____ — Anchor Length 41 ft. — Size 5½ in.

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

Gravity Oil ____ — Main Hole Size 7 7/8 in. — Tool Joint Size 4½xh in.

Blow: ____

Recovered 150 ft. of Mud.

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: MISRUN - Packer Failure.

Time Set Packer (s) 12:55 A M. — Time Started Off Bottom 1:05 A M. — Maximum Temperature ____

Initial Hydrostatic Pressure ..... (A) ____ P.S.I.

Initial Flow Period ..... Minutes ____ (B) ____ P.S.I. to (C) ____ P.S.I.

Initial Closed In Period ..... Minutes ____ (D) ____ P.S.I.

Final Flow Period ..... Minutes ____ (E) ____ P.S.I. to (F) ____ P.S.I.

Final Closed In Period ..... Minutes ____ (G) ____ P.S.I.

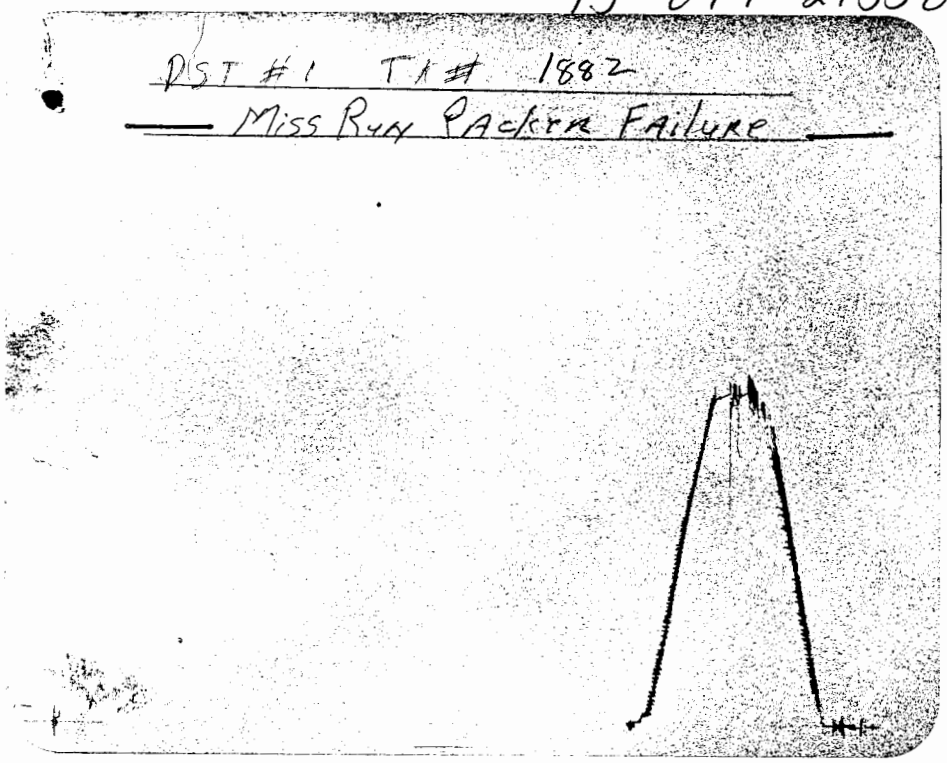
Final Hydrostatic Pressure ..... (H) ____ P.S.I.

ORIGINAL

15-077-21350

DST #1 TI# 1882

Miss Run Packer Failure



This is an actual photograph of recorder chart.

POINT	PRESSURE Field Reading	Office Reading	
(A) Initial Hydrostatic Mud			PSI
(B) First Initial Flow Pressure			PSI
(C) First Final Flow Pressure			PSI
(D) Initial Closed-in Pressure			PSI
(E) Second Initial Flow Pressure			PSI
(F) Second Final Flow Pressure			PSI
(G) Final Closed-in Pressure			PSI
(H) Final Hydrostatic Mud			PSI

COMPANY OIL PRODUCERS, INC. OF KANSAS LEASE AND WELL NO. CAROTHERS "E" #1 SEC. 15 TWP. 33S RGE. 6W TEST NO. 1 DATE 2-21-98

DST #2 TK# 1883

