WESTERN TESTING CO., INC.
FORMATION TESTING

Lahey at Graves did either one

TICKET No. 4362

Clarke #1 or Clark Trust

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation _____ Formation Douglas Eff. Pay _____ Ft.

District Pratt Date 11-28-79 Customer Order No. _____

COMPANY NAME Clarke Corp. But 187 Medicine Lodge, Ks.

ADDRESS 910 Union Center, (Graves Drlg. Co, Inc.) Wichita, Ks 67202

LEASE AND WELL NO. Clarke #1 "Irwin" COUNTY Barber STATE Ks Sec. 13 Twp. 31S Rge. 13W

Mail Invoice To _____ No. Copies Requested
Co. Name Address

Mail Charts To _____ No. Copies Requested
Address

Formation Test No. 1 Interval Tested from 3578 ft. to 3593 ft. Total Depth 3593 ft.

Packer Depth 3573 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.
Packer Depth 3578 ft.	Size 6 3/4 in.	Packer Depth — ft.	Size — in.
Depth of Selective Zone Set			

Top Recorder Depth (Inside)	3580 ft.	Recorder Number 3354	Cap. 4200
Bottom Recorder Depth (Outside)	3583 ft.	Recorder Number 2605	Cap. 4150
Below Straddle Recorder Depth	— ft.	Recorder Number —	Cap. —

Drilling Contractor Graves Drilling Co., Inc.		Drill Collar Length 155	I. D. 2 1/4 in.
Mud Type Drispac	Viscosity 41	Weight Pipe Length —	I. D. — in.
Weight 9.1	Water Loss 13.5 cc.	Drill Pipe Length 3404	I. D. 3.8 in.
Chlorides 18,000 P.P.M.		Test Tool Length 20 ft.	Tool Size 5 1/2 O.D. in.
Jars: Make No	Serial Number —	Anchor Length 15 ft.	Size 5 1/2 O.D. in.
Did Well Flow? No	Reversed Out	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: Weake blow dieing in Initial blow. Weak blow dieing on Final flow.

Recovered 240 ft. of Muddy Salt Water
Recovered ____ ft. of
Recovered ____ ft. of
Recovered ____ ft. of
Recovered ____ ft. of

Remarks: Flushed tool on initial flow period

RECEIVED NOV 30 1979

Time Set Packer(s) 6:35 A.M. P.M.	Time Started Off Bottom 9:20 A.M. P.M.				Maximum Temperature 119	
Initial Hydrostatic Pressure			(A) 1720	P.S.I.		
Initial Flow Period	Minutes 15	(B) 63	P.S.I. to	(C) 94	P.S.I.	
Initial Closed In Period	Minutes 45	(D) 1297	P.S.I.			
Final Flow Period	Minutes 60	(E) 116	P.S.I. to	(F) 147	P.S.I.	
Final Closed In Period	Minutes 45	(G) 1223	P.S.I.			
Final Hydrostatic Pressure		(H) 1720	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 Fredrick W Stump
Signature of Customer or his authorized representative

Western Representative Mike Litt + Thank you!

FIELD INVOICE

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

WESTERN TESTING CO., INC.
Pressure Data

Date 11-28-79 Test Ticket No. 4362

Recorder No. 3354 Capacity 4200 Location 3580 Ft.

Clock No. — Elevation — Well Temperature 119 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1720 P.S.I.		Open Tool	6:35 M	
B	First Initial Flow Pressure	58 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	95 P.S.I.		Initial Closed-in Pressure	45 Mins.	45 Mins.
D	Initial Closed-in Pressure	1296 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	110 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	152 ~~1502~~ P.S.I.				
G	Final Closed-in Pressure	1241 P.S.I.				
H	Final Hydrostatic Mud	1718 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	58
P 2 5	63
P 3 10	74
P 4 15	Flushed Tool 95
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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	95
3	555
6	960
9	1101
12	1167
15	1207
18	1230
21	1249
24	1260
27	1268
30	1275
33	1279
36	1283
39	1287
42	1292
45	1296
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	110
5	110
10	114
15	118
20	123
25	127
30	130
35	134
40	138
45	142
50	146
55	149
60	152
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	152
3	555
6	895
9	1032
12	1097
15	1133
18	1160
21	1177
24	1190
27	1203
30	1211
33	1217
36	1223
39	1229
42	1235
45	1241
48	
51	
54	
57	
60	

IKL #4362
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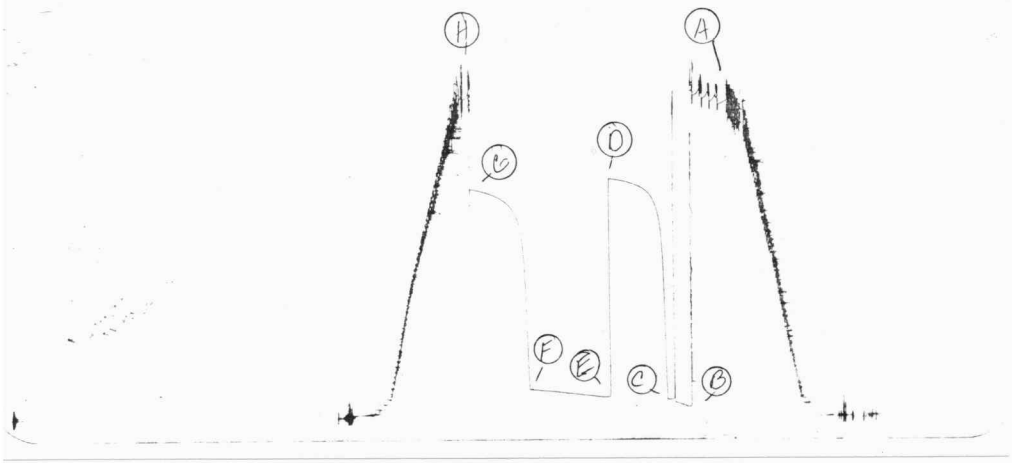

Company: Clarke Corporation — Lease & Well No.: Clarke #1

Elevation: -- — Formation: Douglas — Effective Pay: ---- Ft. — Ticket No.: 4362

Date: 11/28/79 — Sec.: 13 — Twp.: 31S — Range: 13W — County: Barber — State: Kansas

Test Approved by: Frederick W. Stump — Western Representative: Mike Tritt

Formation Test No.: 1 — Interval Tested from: 3578 ft. to: 3593 ft. — Total Depth: 3593 ft.

Packer Depth: 3573 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Packer Depth: 3578 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 3580 ft. — Recorder Number: 3354 — Cap.: 4200

Bottom Recorder Depth (Outside): 3583 ft. — Recorder Number: 2605 — Cap.: 4150

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

Drilling Contractor: Graves DRilling Co. Inc. — Drill Collar Length: 155 — I. D.: 2¼ in.

Mud Type: drispac — Viscosity: 41 — Weight Pipe Length: - — I. D.: - in.

Weight: 9.1 — Water Loss: 13.5 cc. — Drill Pipe Length: 3404 — I. D.: 3.8 in.

Chlorides: 18,000 P.P.M. — Test Tool Length: 20 ft. — Tool Size: 5½OD in.

Jars: Make: No — Serial Number: -- — Anchor Length: 15 ft. — Size: 5½OD in.

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

Main Hole Size: 7 7/8 in. — Tool Joint Size: 4½FH in.

Blow: Weak blow dying in Initial blow. Weak blow dying on final flow.

Recovered: 240 ft. of muddy salt water

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Remarks: Flushed tool on initial flow period.

Time Set Packer(s): 6:35 A.M./P.M. — Time Started Off Bottom: 9:20 A.M./P.M. — Maximum Temperature: 119°

Initial Hydrostatic Pressure			(A)	1720	P.S.I.	
Initial Flow Period	Minutes 15	(B)	58	P.S.I. to (C)	95	P.S.I.
Initial Closed In Period	Minutes 45	(D)	1296	P.S.I.		
Final Flow Period	Minutes 60	(E)	110	P.S.I. to (F)	152	P.S.I.
Final Closed In Period	Minutes 45	(G)	1241	P.S.I.		
Final Hydrostatic Pressure			(H)	1718	P.S.I.	

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