



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

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

Elevation 1578 K.B. Formation Missi Eff. Pay _____ Ft.

TICKET No 17671

District Pratt Date 10-25-83 Customer Order No. _____

COMPANY NAME Graves Drilling Co. Inc.

ADDRESS 910 Union Center, Wichita, Ks 67202

LEASE AND WELL NO. Benefiel #2 COUNTY Barber STATE Ks Sec. 35 Twp 31S Rge. 12W

Mail Invoice To #2 BENEFIE same Co. Name _____ Address _____ No. Copies Requested req

Mail Charts To same Address _____ No. Copies Requested req

Formation Test No. 2 Interval Tested From 4320 ft. to 4335 ft. Total Depth 4335 ft.

Packer Depth 4315 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4320 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4325 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 4328 ft. Recorder Number 5763 Cap. 5400

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

Drilling Contractor Graves Drig. Drill Collar Length 120 I. D. 2.25 in.

Mud Type Starch Viscosity 54 Weight Pipe Length _____ I. D. _____ in.

Weight 9.2 Water Loss 8.8 cc. Drill Pipe Length 4180 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 15 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 4 1/2 X 11 in.

Blow: strong blow throughout initial flow period. Strong blow gas to surface 10 min. See Chart.

Recovered 60 ft. of Slightly gas cut mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

RECEIVED
OCT 27 1983

Time On Location 5:30 A.M. P.M. Time Pick Up Tool 9:20 A.M. P.M. Time Off Location 5:00 A.M. P.M.

Time Set Packer(s) 10:55 A.M. P.M. Time Started Off Bottom 1:40 A.M. P.M. Maximum Temperature 120

Initial Hydrostatic Pressure (A) 2318 P.S.I.

Initial Flow Period Minutes 15 (B) 52 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period Minutes 45 (D) 1111 P.S.I.

Final Flow Period Minutes 60 (E) 39 P.S.I. to (F) 26 P.S.I.

Final Closed In Period Minutes 45 (G) 732 P.S.I.

Final Hydrostatic Pressure (H) 2201 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 Fred Stump
Signature of Customer or his authorized representative

Western Representative Mika Litt - Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>595.00</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
Telecopier	\$ _____
TOTAL	\$ <u>595.00</u>

WESTERN TESTING CO., INC.

Pressure Data

Date: 10-25 Test Ticket No. 17671
 Recorder No. 6246 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2319</u> P.S.I.	_____	_____	_____
B First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C First Final Flow Pressure	<u>56</u> P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>1117</u> P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>27</u> P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F Second Final Flow Pressure	<u>31</u> P.S.I.			
G Final Closed-in Pressure	<u>743</u> P.S.I.			
H Final Hydrostatic Mud	<u>2183</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 4 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

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

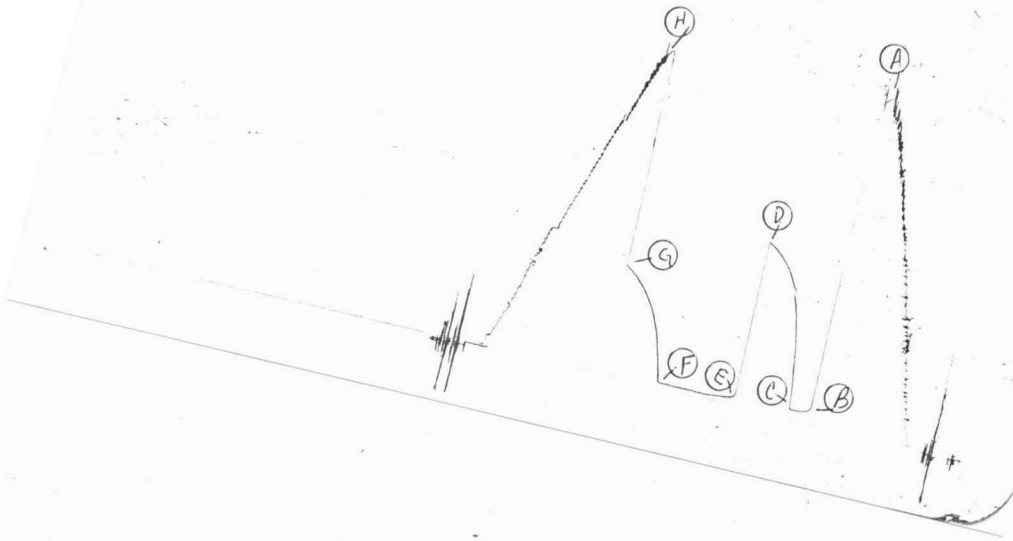
Final Shut-In
 Breakdown: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>56</u>	0	<u>56</u>	0	<u>27</u>	0	<u>31</u>
P 2 5	<u>56</u>	3	<u>291</u>	5	<u>56</u>	3	<u>141</u>
P 3 10	<u>56</u>	6	<u>463</u>	10	<u>56</u>	6	<u>241</u>
P 4 15	<u>56</u>	9	<u>594</u>	15	<u>56</u>	9	<u>346</u>
P 5 20	<u>56</u>	12	<u>712</u>	20	<u>56</u>	12	<u>411</u>
P 6 25	<u>56</u>	15	<u>847</u>	25	<u>27</u>	15	<u>471</u>
P 7 30	<u>56</u>	18	<u>882</u>	30	<u>30</u>	18	<u>521</u>
P 8 35	<u>56</u>	21	<u>935</u>	35	<u>56</u>	21	<u>563</u>
P 9 40	<u>56</u>	24	<u>974</u>	40	<u>56</u>	24	<u>597</u>
P10 45	<u>56</u>	27	<u>1008</u>	45	<u>30</u>	27	<u>634</u>
P11 50	<u>56</u>	30	<u>1036</u>	50	<u>31</u>	30	<u>661</u>
P12 55	<u>56</u>	33	<u>1062</u>	55	<u>31</u>	33	<u>687</u>
P13 60	<u>56</u>	36	<u>1085</u>	60	<u>56</u>	36	<u>709</u>
P14	<u>56</u>	39	<u>1104</u>	65	<u>56</u>	39	<u>730</u>
P15	<u>56</u>	42	<u>1117</u>	70	<u>56</u>	42	<u>743</u>
P16	<u>56</u>	45	<u>56</u>	75	<u>56</u>	45	<u>56</u>
P17	<u>56</u>	48	<u>56</u>	80	<u>56</u>	48	<u>56</u>
P18	<u>56</u>	51	<u>56</u>	85	<u>56</u>	51	<u>56</u>
P19	<u>56</u>	54	<u>56</u>	90	<u>56</u>	54	<u>56</u>
P20	<u>56</u>	57	<u>56</u>	<u>56</u>	<u>56</u>	57	<u>56</u>
	<u>56</u>	60	<u>56</u>	<u>56</u>	<u>56</u>	60	<u>56</u>

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1011

6246
DST#2



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/25/83
CUSTOMER: GRAVES DRILLING CO. INC.
WELL: 2 TEST: 2
ELEVATION (KB): 1578 FORMATION: MISSISSIPPI
SECTION: 35 TOWNSHIP: 31S
RANGE: 12W COUNTY: BARBER STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

TICKET #17671
LEASE: BENEFIAL
GEOLOGIST: F. STUMP

INTERVAL TEST FROM: 4320 FT TO: 4335 FT TOTAL DEPTH: 4335 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4315 FT SIZE: 6 5/8 IN Packer DEPTH: 4320 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES DRILLING
MUD TYPE: STARCH VISCOSITY: 54
WEIGHT: 9.2 WATER LOSS (CC): 8.8
CHLORIDES (P.P.M.): 16000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4180 FT I.D.: 38. IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 15 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 XH IN

BLOW: INITIAL FLOW PERIOD BLOW STRONG THROUGHOUT.
FINAL FLOW PERIOD BLOW STRONG
BLOW. GAS TO SURFACE IN 10 MINUTES.

RECOVERED: 60 FT OF: SLIGHTLY GAS CUT MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
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): 10:55 A.M. TIME STARTED OFF BOTTOM: 1:40 P.M.
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2319 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 56 PSI TO (C) 56 PSI
INITIAL CLOSED IN PERIOD MIN: 42 (D) 1117 PSI
FINAL FLOW PERIOD MIN: 55 (E) 27 PSI TO (F) 31 PSI
FINAL CLOSED IN PERIOD MIN: 42 (G) 743 PSI
FINAL HYDROSTATIC PRESSURE (H) 2183 PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 10/25/83
CUSTOMER: GRAVES DRILLING CO. INC.
WELL: 2 TEST: 2
ELEVATION (KB): 1578 FORMATION: MISSISSIPPI
SECTION: 35 TOWNSHIP: 31S
RANGE: 12W COUNTY: BARBER STATE: KANSAS
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

TICKET #17671
LEASE: BENEFIAL
GEOLOGIST: F. STUMP

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

SECOND FLOW

10				GAS TO SURFACE IN 10 MINUTES.
20	MERLA	1/4	1 PSIG	8940 CFPD
30		1/4	1 PSIG	8950 CFPD
40		1/4	1 PSIG	8950 CFPD
50		1/4	1 PSIG	8950 CFPD
60		1/4	1 PSIG	8950 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: