



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Graves Drilling Co., Inc. Lease & Well No Newell-Staples #1
Elevation 1470 Kelly Bushing Formation Kansas City Effective Pay ---- Ft. Ticket No. 6592
Date 8-23-80 Sec 16 Twp 31 S Range 6 W County Harper State KS
Test Approved by Harold Steincamp Western Representative Rod Tritt
Formation Test No. 1 Interval Tested from 3691 ft. to 3709 ft. Total Depth 3709 ft.
Packer Depth 3686 ft. Size 6 3/4 in. Packer Depth ---- ft. Size ---- in.
Packer Depth 3691 ft. Size 6 3/4 in. Packer Depth ---- ft. Size ---- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 3695 ft. Recorder Number 2606 Cap 4150
Bottom Recorder Depth (Outside) 3698 ft. Recorder Number 4332 Cap 4200
Below Straddle Recorder Depth ---- ft. Recorder Number ----- Cap -----
Drilling Contractor Graves Drilling Co. Drill Collar Length 88 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 48 Weight Pipe Length ----- I. D. ---- in.
Weight 9.3 Water Loss 44.8 cc. Drill Pipe Length 3583 I. D. 3.8 in.
Chlorides 14,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make NO Serial Number ----- Anchor Length 18 ft. Size 5 1/2 OD 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 FH in.

Blow: Very weak blow on initial flow period. Died in 20 minutes.
No blow on final flow period.

Recovered 75 ft. of Drilling mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:35 ~~AM~~ P.M. Time Started Off Bottom 6:35 ~~AM~~ P.M. Maximum Temperature 124⁰ F.
Initial Hydrostatic Pressure (A) 1928 P.S.I.
Initial Flow Period Minutes 30 (B) 54 P.S.I. to (C) 54 P.S.I.
Initial Closed In Period Minutes 30 (D) 965 P.S.I.
Final Flow Period Minutes 30 (E) 114 P.S.I. to (F) 92 P.S.I.
Final Closed In Period Minutes 30 (G) 910 P.S.I.
Final Hydrostatic Pressure (H) 1857 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8-23-80 Recorder No. 2606 Capacity 4150 Test Ticket No. 6592
 Clock No. ----- Elevation 1470 Kelly Bushing Location 3695 Ft. -----
 Well Temperature 124 °F

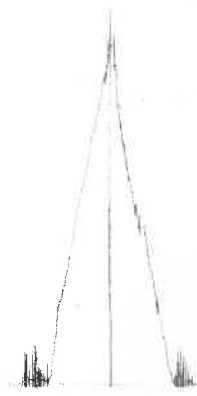
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1928 P.S.I.	4:35 P M	
B First Initial Flow Pressure	54 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	54 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	965 P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	114 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	92 P.S.I.		
G Final Closed-in Pressure	910 P.S.I.		
H Final Hydrostatic Mud	1857 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>54</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>114</u>	<u>0</u>	<u>92</u>
P 2 <u>5</u>	<u>54</u>	<u>3</u>	<u>423</u>	<u>5</u>	<u>102</u>	<u>3</u>	<u>391</u>
P 3 <u>10</u>	<u>54</u>	<u>6</u>	<u>597</u>	<u>10</u>	<u>96</u>	<u>6</u>	<u>566</u>
P 4 <u>15</u>	<u>54</u>	<u>9</u>	<u>707</u>	<u>15</u>	<u>94</u>	<u>9</u>	<u>672</u>
P 5 <u>20</u>	<u>54</u>	<u>12</u>	<u>786</u>	<u>20</u>	<u>92</u>	<u>12</u>	<u>734</u>
P 6 <u>25</u>	<u>54</u>	<u>15</u>	<u>838</u>	<u>25</u>	<u>92</u>	<u>15</u>	<u>794</u>
P 7 <u>30</u>	<u>54</u>	<u>18</u>	<u>875</u>	<u>30</u>	<u>92</u>	<u>18</u>	<u>826</u>
P 8 <u> </u>	<u> </u>	<u>21</u>	<u>904</u>	<u> </u>	<u> </u>	<u>21</u>	<u>852</u>
P 9 <u> </u>	<u> </u>	<u>24</u>	<u>923</u>	<u> </u>	<u> </u>	<u>24</u>	<u>875</u>
P10 <u> </u>	<u> </u>	<u>27</u>	<u>942</u>	<u> </u>	<u> </u>	<u>27</u>	<u>891</u>
P11 <u> </u>	<u> </u>	<u>30</u>	<u>965</u>	<u> </u>	<u> </u>	<u>30</u>	<u>910</u>
P12 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P13 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P14 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P15 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P16 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P17 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P18 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P19 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P20 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

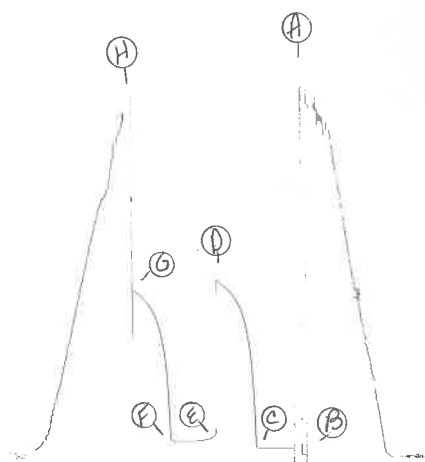
4332 • DST #1

JK # 6592
0



2606 DST #1

JK # 6592
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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1905	1928	PSI
(B) First Initial Flow Pressure	52	54	PSI
(C) First Final Flow Pressure	52	54	PSI
(D) Initial Closed-in Pressure	966	965	PSI
(E) Second Initial Flow Pressure	124	114	PSI
(F) Second Final Flow Pressure	93	92	PSI
(G) Final Closed-in Pressure	904	910	PSI
(H) Final Hydrostatic Mud	1873	1857	PSI



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Graves Drilling Co., Inc. Lease & Well No. Newell Staples #1
Elevation 1470 Kelly Bushing Formation Mississippi Effective Pay ----- Ft. Ticket No. 6838
Date 8-25-80 Sec 16 Twp 31 S Range 6 W County Harper State KS
Test Approved by Harold Steincamp Western Representative Jeff Piotrowski
Formation Test No. 2 Interval Tested from 4298 ft. to 4318 ft. Total Depth 4318 ft.
Packer Depth 4293 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
Packer Depth 4298 ft. Size 6 3/4 in. Packer Depth ----- ft. Size ----- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 4301 ft. Recorder Number 5673 Cap 5400
Bottom Recorder Depth (Outside) 4304 ft. Recorder Number 1565 Cap 4900
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap -----
Drilling Contractor Graves Drilling Rig #1 Drill Collar Length 90 I. D. 2.2 in.
Mud Type Chemical Viscosity 48 Weight Pipe Length ----- I. D. ----- in.
Weight 9.5 Water Loss 20.8 cc. Drill Pipe Length 4188 I. D. 3.8 in.
Chlorides 10,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make ----- Serial Number ----- Anchor Length 20 ft. Size 5 1/2 OD 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 FH in.

Blow: Strong blow throughout both flow periods.

Recovered 75 ft. of Gassy oil cut mud.

Recovered 120 ft. of Gas cut water.

Recovered ft. of

Recovered ft. of

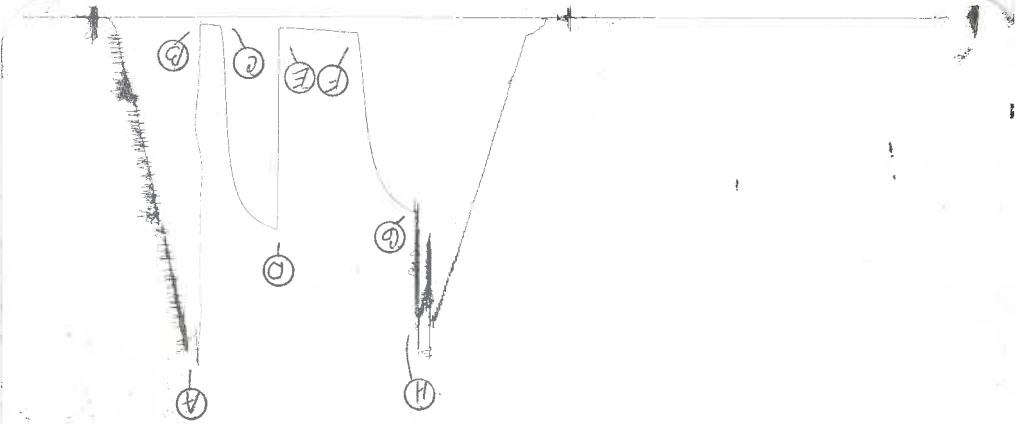
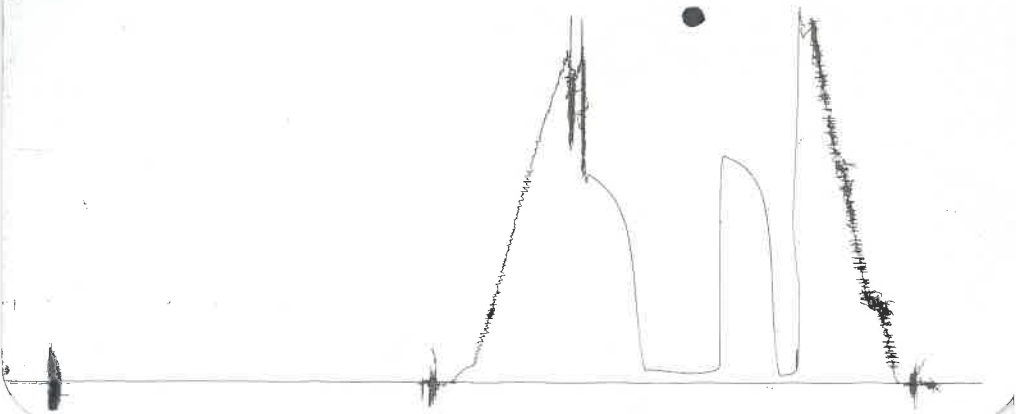
Recovered ft. of

Remarks:

Time Set Packer(s) 8:43 ^{-A.M.}_{P.M.} Time Started Off Bottom 11:28 ^{-A.M.}_{P.M.} Maximum Temperature 108 ⁰_{F.}
Initial Hydrostatic Pressure 2248 P.S.I.
Initial Flow Period 15 Minutes (B) 51 P.S.I. to (C) 65 P.S.I.
Initial Closed In Period 45 Minutes (D) 1505 P.S.I.
Final Flow Period 60 Minutes (E) 79 P.S.I. to (F) 111 P.S.I.
Final Closed In Period 45 Minutes (G) 1381 P.S.I.
Final Hydrostatic Pressure 2113 P.S.I. (H)

15.65
DST#2

Plot # 6838



Plot # 6839

15.65
DST#2

COMPANY

GRAVES DRILLING COMPANY, INC.

LEASE AND WELL NO.

NEWELL STAPLES #1

16

31S

6W

TEST NO.

2

DATE

This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2258	2248	PSI
(B) First Initial Flow Pressure	40	51	PSI
(C) First Final Flow Pressure	54	65	PSI
(D) Initial Closed-in Pressure	1498	1505	PSI
(E) Second Initial Flow Pressure	81	79	PSI
(F) Second Final Flow Pressure	109	111	PSI
(G) Final Closed-in Pressure	1363	1381	PSI
(H) Final Hydrostatic Mud	2081	2113	PSI