

15-151-21840

14-29s-14w

DIAMOND TESTING

P. O. Box 157

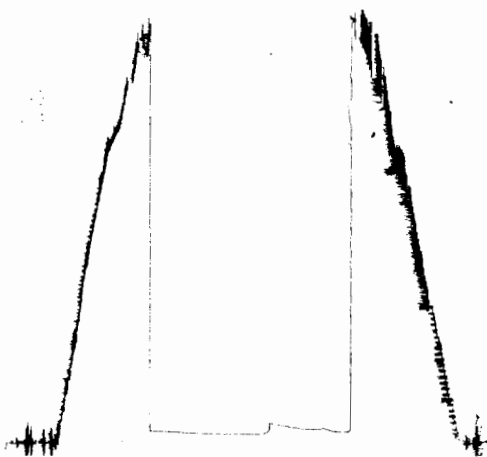
HOISINGTON, KANSAS 67544

(316) 653-7550

Company Agate Petroleum, Inc. Lease and Well No. Luther No. 1-14Elevation 1992 KB Formation Simpson Effective Pay Ft. Ticket No. 424Date 7-2-87 Sec. 14 Twp. 29S Range 14W County Pratt State KansasTests Approved by Scott Alberg Diamond Representative Roger D. FriedlyFormation Test No. 1 Interval Tested from 4,530 Ft. to 4,571 Ft. Total Depth 4,571 Ft.Packer Depth 4,525 Ft. Size 6 3/4 in. Packer Depth Ft. Size in.Packer Depth 4,530 ft. Size 6 3/4 in. Packer Depth ft. Size in.Depth of Selective Zone Set Top Recorder Depth(Inside) 4,563 ft. Recorder Number 13498 Cap. 3,925Bottom Recorder Depth(Outside) 4,568 ft. Recorder Number 13556 Cap. 4,425Below Straddle Recorder Depth ft. Recorder Number Cap. Drilling Contractor Duke Drilling Company, Inc. - Rig 2Drill Collar Length I.D. in.Mud Type Drispac Viscosity 44Weight Pipe Length 283 ft. I.D. 2 1/2 in.Weight 9.5+ Water Loss 12.2 cc.Drill Pipe Length Remainder I.D. 2 7/8 in.Chlorides P.P.M.Test Tool Length 26 ft. Tool Size 3 1/2-FH in.Jars: Make Serial Number Anchor Length 41 ft. Size 4 1/2-FH in.Did Well Flow No Reversed Out NoSurface Choke Size 1-2 in. Bottom Choke Size 5/8 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.Blow: 1st Open: Weak blow. Died in 10 mins.2nd Open: No blow.Recovered 20 ft. of drilling mud with very few oil specks = .148 bbls.Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of Remarks Time Set Packer(s) 7:35 ~~A.M.~~ Time Started Off Bottom 10:05 ~~A.M.~~ Maximum Temperature Initial Hydrostatic Pressure (A) 2427 P.S.I.Initial Flow Period Minutes 30 (B) 88 P.S.I. to (C) 88 P.S.I.Initial Closed In Period Minutes 30 (D) 126 P.S.I.Final Flow Period Minutes 30 (E) 88 P.S.I. to (F) 88 P.S.I.Final Closed In Period Minutes 60 (G) 97 P.S.I.Final Hydrostatic Pressure (H) 2329 P.S.I.

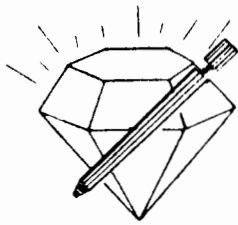
DST #1 OUTSIDE 13556
CLOCK 19121

LOC 4568



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2427	2427	PSI
(B) First Initial Flow Pressure.....	88	53	PSI
(C) First Final Flow Pressure	88	73	PSI
(D) Initial Closed-in Pressure	126	110	PSI
(E) Second Initial Flow Pressure	88	73	PSI
(F) Second Final Flow Pressure.....	88	73	PSI
(G) Final Closed-in Pressure.....	97	92	PSI
(H) Final Hydrostatic Mud	2329	2329	PSI



DIAMOND TESTING

P. O. Box 157

HOISINGTON, KANSAS 67544

(316) 653-7550

Company Agate Petroleum, Inc. Lease and Well No. Luther No. 1-14

Elevation 1992 KB Formation Simpson Effective Pay Ft. Ticket No. 425

Date 7-2-87 Sec. 14 Twp. 29S Range 14W County Pratt State Kansas

Tests Approved by Scott Alberg Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,568 Ft. to 4,580 Ft. Total Depth 4,580 Ft.

Packer Depth 4,563 Ft. Size 6 3/4 In. Packer Depth Ft. Size In.

Packer Depth 4,568 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth(Inside) 4,572 ft. Recorder Number 13556 Cap. 4,425

Bottom Recorder Depth(Outside) ft. Recorder Number Cap.

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Duke Drilling Company, Inc. - Rig 2 Drill Collar Length I.D. In.

Mud Type Driscap Viscosity 39 Weight Pipe Length 283 ft. I.D. 2 1/2 In.

Weight 9.4 Water Loss 16.2 cc. Drill Pipe Length Remainder I.D. 2 7/8 In.

Chlorides P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2-FH In.

Jars: Make Serial Number Anchor Length 12 ft. Size 4 1/2-FH In.

Did Well Flow No Reversed Out No Surface Choke Size 1-2 In. Bottom Choke Size 5/8 In.

Main Hole Size 7 7/8 In. Tool Joint Size 4 1/2-XH In.

Blow: 1st Open: Weak blow building to 1 1/2 ins. in bucket.

2nd Open: Came back after 12 mins. to surface blow and built to 1/2 in. in bucket.

Recovered 110 ft. of watery mud = .814 bbls.

Recovered 40 ft. of water = .296 bbls. (Chlorides: 32,000 Ppm)

Recovered 150 ft. of TOTAL FLUID = 1.110 bbls.

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 9:05 ~~XXX~~ P.M. Time Started Off Bottom 11:50 ~~XXX~~ P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 2400 P.S.I.

Initial Flow Period Minutes 30 (B) 44 P.S.I. to (C) 55 P.S.I.

Initial Closed In Period Minutes 30 (D) 972 P.S.I.

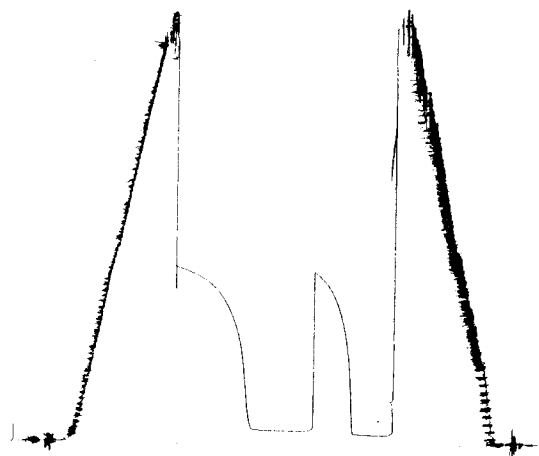
Final Flow Period Minutes 45 (E) 66 P.S.I. to (F) 88 P.S.I.

Final Closed In Period Minutes 60 (G) 994 P.S.I.

Final Hydrostatic Pressure (H) 2423 P.S.I.

DST # 2 Inside 13556
clock 19122

4568-4580



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2400	2385
(B) First Initial Flow Pressure.....	44	55
(C) First Final Flow Pressure	55	55
(D) Initial Closed-in Pressure	972	972
(E) Second Initial Flow Pressure	66	77
(F) Second Final Flow Pressure.....	88	79
(G) Final Closed-in Pressure.....	994	1002
(H) Final Hydrostatic Mud	2423	2444