



DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

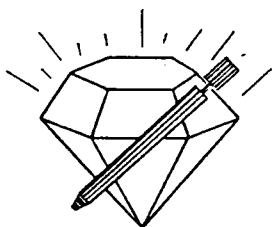
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Company Black Diamond Oil, Inc. Lease & Well No. Hays No. 1
Elevation N/A Formation Lansing/Kansas City ("H" Zone) Ticket No. 877
Date 9-15-92 Sec. 30 Twp. 10S Range 30W County Sheridan State Kansas
Test Approved By Kenneth Vehige Diamond Representative Roger D. Friedly
Formation Test No. 1 Interval Tested from 4,130 ft. to 4,192 ft. Total Depth 4,192 ft.
Packer Depth 4,125 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4,130 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set
Top Recorder Depth (Inside) 4,118 ft. Recorder Number 13386 Cap. 3,875 psi
Bottom Recorder Depth (Outside) 4,189 ft. Recorder Number 13556 Cap. 4,425 psi
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Emphasis Oil Oper. - Rig 7 Drill Collar Length 30 ft. I.D. 2 7/8 in.
Mud Type Chemical Viscosity 53 Weight Pipe Length I.D. in.
Weight 9.2 Water Loss 7.8 cc. Drill Pipe Length 4,075 ft. I.D. 3 1/4 in.
Chlorides 1,200 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 30' perf. w/32' drillpipe Size 4 1/2 - FH in.
Did it Flow? No Reversed Out No Surface Choke Size 1 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, 1/4 in., blow increasing to 2 1/4 ins.
2nd Open: Weak, surface blow increasing to 2 1/4 ins.
Recovered 1 ft. of clean oil on top = .008 bbls.
Recovered 20 ft. of oil cut muddy water = .16 bbls. (Grind out: 5%-oil; 60%-mud; 15%-water)
Recovered 61 ft. of water = .60552 bbls. (Grind out: 2%-oil; 18%-mud; 80%-water)
Recovered 61 ft. of water with a scum of oil = .62586 bbls.
Recovered 143 ft. of TOTAL FLUID = 1.39938 bbls.
Remarks

Time Set Packer(s) 6:20 ~~A.M.~~ P.M. Time Started Off Bottom 9:20 ~~A.M.~~ P.M. Maximum Temperature 116°
Initial Hydrostatic Pressure (A) 2012 P.S.I.
Initial Flow Period Minutes 30 (B) 60 P.S.I. to (C) 67 P.S.I.
Initial Closed In Period Minutes 45 (D) 1365 P.S.I.
Final Flow Period Minutes 45 (E) 89 P.S.I. to (F) 103 P.S.I.
Final Closed In Period Minutes 60 (G) 1361 P.S.I.
Final Hydrostatic Pressure (H) 2012 P.S.I.

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Company Black Diamond Oil, Inc. Lease & Well No. Hays No. 1

Elevation N/A Formation Lansing/Kansas City ("J" & "K" Zones) Ticket No. 878

Date 9-16-92 Sec. 30 Twp. 10S Range 30W County Sheridan State Kansas

Test Approved By Kenneth Vehige Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 4,186 ft. to 4,250 ft. Total Depth 4,250 ft.

Packer Depth 4,181 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4,186 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4,174 ft. Recorder Number 13386 Cap. 3,875 psi

Bottom Recorder Depth (Outside) 4,247 ft. Recorder Number 13556 Cap. 4,425 psi

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Emphasis Oil Oper. - Rig 7 Drill Collar Length 30 ft. I.D. 2 7/8 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length I.D. in.

Weight 9.3 Water Loss 7.2 cc. Drill Pipe Length 4,131 ft. I.D. 3 1/2 in.

Chlorides 2,800 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 32' perf. w/32' drillpipe Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5 1/2 in.

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

Blow: 1st Open: N/A

2nd Open: N/A

Recovered 340 ft. of drilling mud = 3.4206 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks MISRUN!

Time Set Packer(s) A.M. P.M. Time Started Off Bottom A.M. P.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.

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Company Black Diamond Oil, Inc. Lease & Well No. Hays No. 1
Elevation N/A Formation Lansing/Kansas City ("J" & "K" Zones) Ticket No. 879
Date 9-16-92 Sec. 30 Twp. 10S Range 30W County Sheridan State Kansas
Test Approved By Kenneth Vehige Diamond Representative Roger D. Friedly
Formation Test No. 3 Interval Tested from 4,186 ft. to 4,250 ft. Total Depth 4,250 ft.
Packer Depth 4,181 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4,186 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set
Top Recorder Depth (Inside) 4,154 ft. Recorder Number 13386 Cap. 3,875 psi
Bottom Recorder Depth (Outside) 4,247 ft. Recorder Number 13556 Cap. 4,425 psi
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Emphasis Oil Oper. - Rig 7 Drill Collar Length 30 ft. I.D. 2 7/8 in.
Mud Type Chemical Viscosity 50 Weight Pipe Length — I.D. — in.
Weight 9.3 Water Loss 7.2 cc. Drill Pipe Length 4,111 ft. I.D. 3 1/2 in.
Chlorides 2,800 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 -IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 52' perf. w/32' drillpipe Size 4 1/2 -FH in.
Did well Flow? No Reversed Out No Surface Choke Size 1 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, 1/8 in., blow increasing to 6 3/4 ins.
2nd Open: Weak, surface blow increasing to 11 ins.
Recovered 67 ft. of gas in pipe
Recovered 25 ft. of oil cut mud = .2 bbls. (Grind out: 5%-gas; 20%-oil; 75%-mud)
Recovered 62 ft. of frothy oil cut mud = .62482 bbls. (Grind out: 10%-gas; 20%-oil; 70%-mud)
Recovered 87 ft. of TOTAL FLUID = .82482 bbls.
Recovered ft. of
Remarks No water in grind out but when water loss was checked by press water was noted.

Time Set Packer(s) 1:25 ~~AXM.~~ P.M. Time Started Off Bottom 4:55 ~~AXM.~~ P.M. Maximum Temperature 112°
Initial Hydrostatic Pressure (A) 2045 P.S.I.
Initial Flow Period Minutes 45 (B) 78 P.S.I. to (C) 89 P.S.I.
Initial Closed In Period Minutes 45 (D) 1352 P.S.I.
Final Flow Period Minutes 60 (E) 103 P.S.I. to (F) 107 P.S.I.
Final Closed In Period Minutes 60 (G) 1298 P.S.I.
Final Hydrostatic Pressure (H) 2034 P.S.I.

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