

15-101-22180

33-185-30w

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

Page 1 of 2 Pages

Company Knighton Oil Company, Inc. Lease & Well No. Carolyn No. A-1

Elevation 2894 KB Formation Lansing/Kansas City "G" Effective Pay -- Ft. Ticket No. 2574

Date 7-19-09 Sec. 33 Twp. 18S Range 30W County Lane State Kansas

Test Approved By David D. Montague Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,123 ft. to 4,153 ft. Total Depth 4,153 ft.

Packer Depth 4,118 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,123 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,104 ft. Recorder Number 1150 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,150 ft. Recorder Number 3815 Cap. 5,700 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor WW Drilling, LLC - Rig 4 Drill Collar Length 124 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 59 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 3,966 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 3 Anchor Length 30 ft. 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: Strong blow increasing. Off bottom of bucket in 2 mins. No blow back during shut-in.

2nd Open: Fair, 2 in., blow increasing. Off bottom of bucket in 4 1/2 mins. Weak, 1/2 in., blow back during shut-in.

Recovered 60 ft. of gas in pipe

Recovered 71 ft. of clean oil = 1.010330 bbls. (Gravity: 28 @ 60°)

Recovered 31 ft. of gas & oil cut muddy water = .441130 bbls. (Grind out: 8%-gas; 16%-oil; 35%-mud; 41%-water)

Recovered 434 ft. of oil & gas cut muddy water = 6.175820 bbls. (Grind out: 13%-oil; 18%-gas; 30%-mud; 39%-water)

Recovered 310 ft. of mud & gas cut oily water = 4.411300 bbls. (Grind out: 1%-mud; 6%-gas; 20%-oil; 73%-water)

Recovered 868 ft. of mud & slightly gas cut oily water = 11.197200 bbls. (Grind out: 1%-mud; 2%-gas; 2%-oil; 95%-water)

Recovered 1,714 ft. of TOTAL FLUID = 23.235780 bbls. Chlorides: 25,500 Ppm

Remarks Tool Sample Grind Out: 1%-gas; 2%-oil; 97%-water

Time Set Packer(s) 1:56 A.M. Time Started Off Bottom 5:11 A.M. Maximum Temperature 128°

Initial Hydrostatic Pressure (A) 2008 P.S.I.

Initial Flow Period Minutes 30 (B) 86 P.S.I. to (C) 602 P.S.I.

Initial Closed In Period Minutes 45 (D) 787 P.S.I.

Final Flow Period Minutes 30 (E) 609 P.S.I. to (F) 763 P.S.I.

Final Closed In Period Minutes 90 (G) 786 P.S.I.

Final Hydrostatic Pressure (H) 2005 P.S.I.

Diamond Testing

Page 2 of 2 Pages
General information Report

General Information

Company Name KNIGHTON OIL COMPANY, INC.

Contact	EARL M. KNIGHTON, JR.	Job Number	
Well Name	CAROLYN A-1	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #1 LKC 'G' 4,123' - 4,153'	Well Operator	KNIGHTON OIL COMPANY, INC.
Surface Location	SEC 33-18S-30W LANE COUNTY	Report Date	2009/07/19
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type			

Test Type	Drill Stem Test		
Formation	DST #1 LKC 'G' 4,123' - 4,153'		
Well Fluid Type		Start Test Time	23:32:00
		Final Test Time	08:04:00
Start Test Date	2009/07/18		
Final Test Date	2009/07/19		
Gauge Name	1150		
Gauge Serial Number			

Test Results

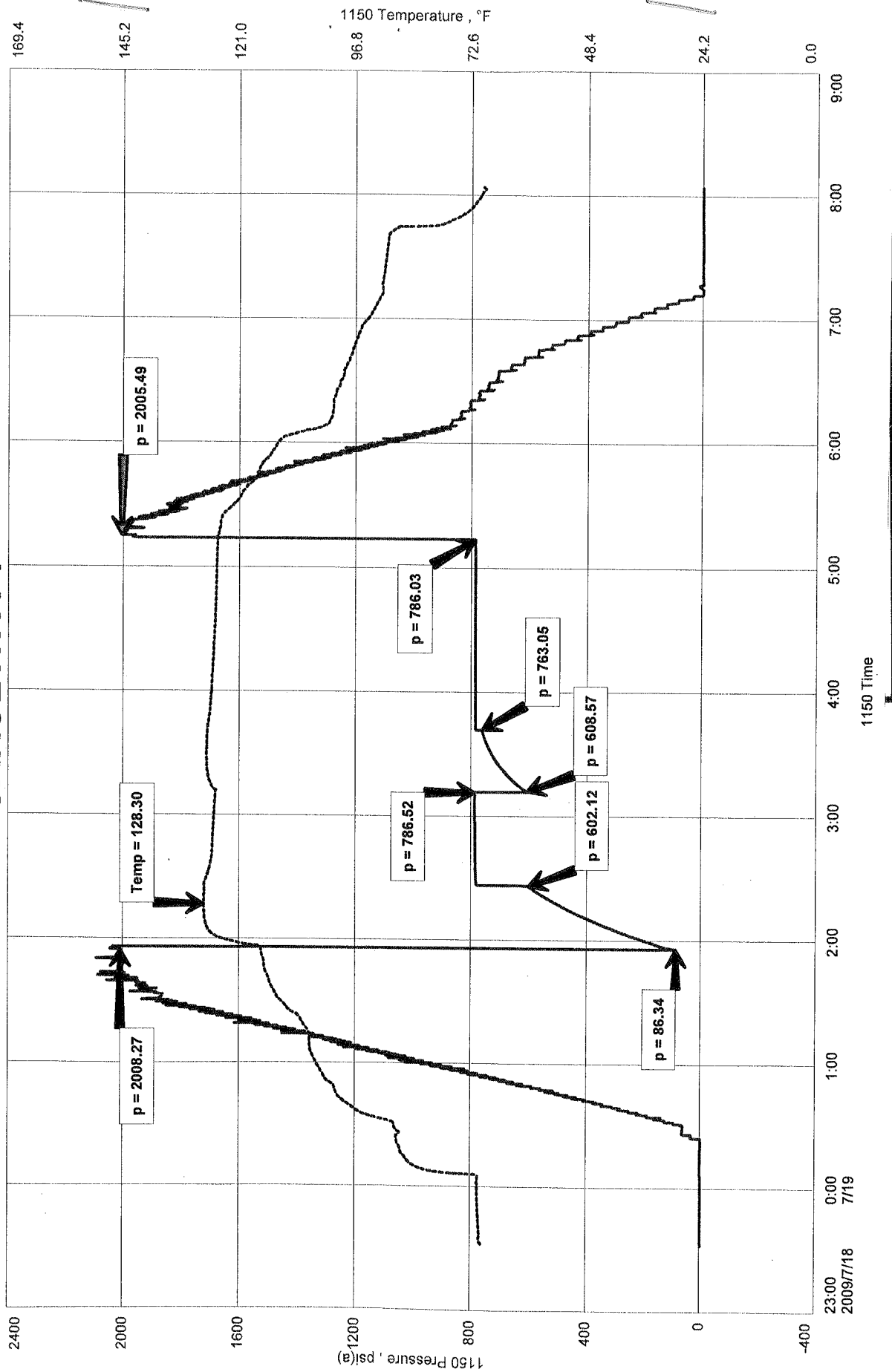
RECOVERED: 60' GAS IN PIPE
71' CO 28 GRAVITY @ 60 deg.
31' G&OCMW 8% GAS, 16% OIL, 35% MUD, 41% WTR
430' O&GCMW 13% OIL, 18% GAS, 30% MUD, 39% WTR
310' M&GCOW 1% MUD, 6% GAS, 20% OIL, 73% WTR
868' M&SLT GCOM 1% MUD, 2% GAS, 2% OIL, 95% WTR CHLORIDES 25,500 Ppm
1,714' TOTAL FLUID

TOOL SAMPLE: 1% GAS, 2% OIL, 97% WTR

KNIGHTON OIL COMPANY, INC.
 DST #1 LKC 'G' 4,123' - 4,153'
 Start Test Date: 2009/07/18
 Final Test Date: 2009/07/19

CAROLYN A-1
 Formation: DST #1 LKC 'G' 4,123' - 4,153'

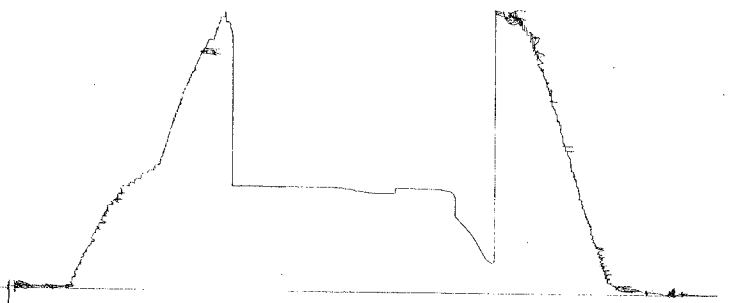
CAROLYN A-1



DST # 1 0 4 5 1 0 5 8 1 5

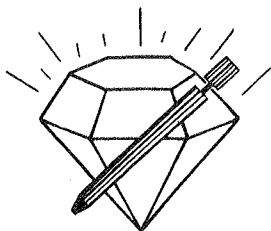
h K C G

4/23-4/53
LOC 4/50



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	El ec. Office Reading
(A) Initial Hydrostatic Mud	2008	2008
(B) First Initial Flow Pressure	86	86
(C) First Final Flow Pressure	602	602
(D) Initial Closed-in Pressure	787	787
(E) Second Initial Flow Pressure	609	609
(F) Second Final Flow Pressure	763	763
(G) Final Closed-in Pressure	786	786
(H) Final Hydrostatic Mud	2005	2005



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Page 1 of 2 Pages

Company Knighton Oil Company, Inc. Lease & Well No. Carolyn No. A-1
Elevation 2894 KB Formation Hertha Effective Pay -- Ft. Ticket No. 2575
Date 7-19-09 Sec. 33 Twp. 18S Range 30W County Lane State Kansas
Test Approved By David D. Montague Diamond Representative Roger D. Friedly
Formation Test No. 2 Interval Tested from 4,268 ft. to 4,290 ft. Total Depth 4,290 ft.
Packer Depth 4,263 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,268 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 4,249 ft. Recorder Number 1150 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,287 ft. Recorder Number 3815 Cap. 5,700 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi
Drilling Contractor WW Drilling, LLC - Rig 4 Drill Collar Length 124 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 66 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.4 Water Loss 6.8 cc. Drill Pipe Length 4,111 ft. I.D. 3 1/2 in.
Chlorides 2,000 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2 - IF in.
Jars: Make Sterling Serial Number 3 Anchor Length 22 ft. 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: Fair, 2 in., blow increasing. Off bottom of bucket in 3 1/2 mins. Strong blow back off bottom of bucket
during shut-in.
2nd Open: Fair, 1 in., blow increasing. Off bottom of bucket in 6 mins. Weak, 1/2 in., blow back during shut-in.
Recovered 963 ft. of gas in pipe
Recovered 940 ft. of clean oil = 12.407960 bbls. (Gravity: 35.6 @ 60°)
Recovered 20 ft. of heavy oil cut mud = .098400 bbls. (Grind out: 32%-oil; 68%-mud)
Recovered 960 ft. of TOTAL FLUID = 12.506360 bbls.
Recovered ft. of
Remarks Tool Sample Grind Out: 100%-oil

Time Set Packer(s) 9:32 ~~A.M.~~ P.M. Time Started Off Bottom 12:47 ~~A.M.~~ P.M. Maximum Temperature 132°
Initial Hydrostatic Pressure (A) 2081 P.S.I.
Initial Flow Period Minutes 30 (B) 20 P.S.I. to (C) 224 P.S.I.
Initial Closed In Period Minutes 45 (D) 918 P.S.I.
Final Flow Period Minutes 30 (E) 228 P.S.I. to (F) 357 P.S.I.
Final Closed In Period Minutes 90 (G) 916 P.S.I.
Final Hydrostatic Pressure (H) 2072 P.S.I.

Diamond Testing

Page 2 of 2 Pages
General information Report

General Information

Company Name KNIGHTON OIL COMPANY, INC.

Contact	EARL M. KNIGHTON, JR.	Job Number	
Well Name	CAROLYN A-1	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #2 HERTHA 4,268' - 4,290'	Well Operator	KNIGHTON OIL COMPANY, INC.
Surface Location	SEC 33-18S-30W LANE COUNTY	Report Date	2009/07/20
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #2 HERTHA 4,268' - 4,290'		
Well Fluid Type		Start Test Time	19:37:00
		Final Test Time	04:03:00
Start Test Date	2009/07/19		
Final Test Date	2009/07/20		
Gauge Name	1150		
Gauge Serial Number			

Test Results

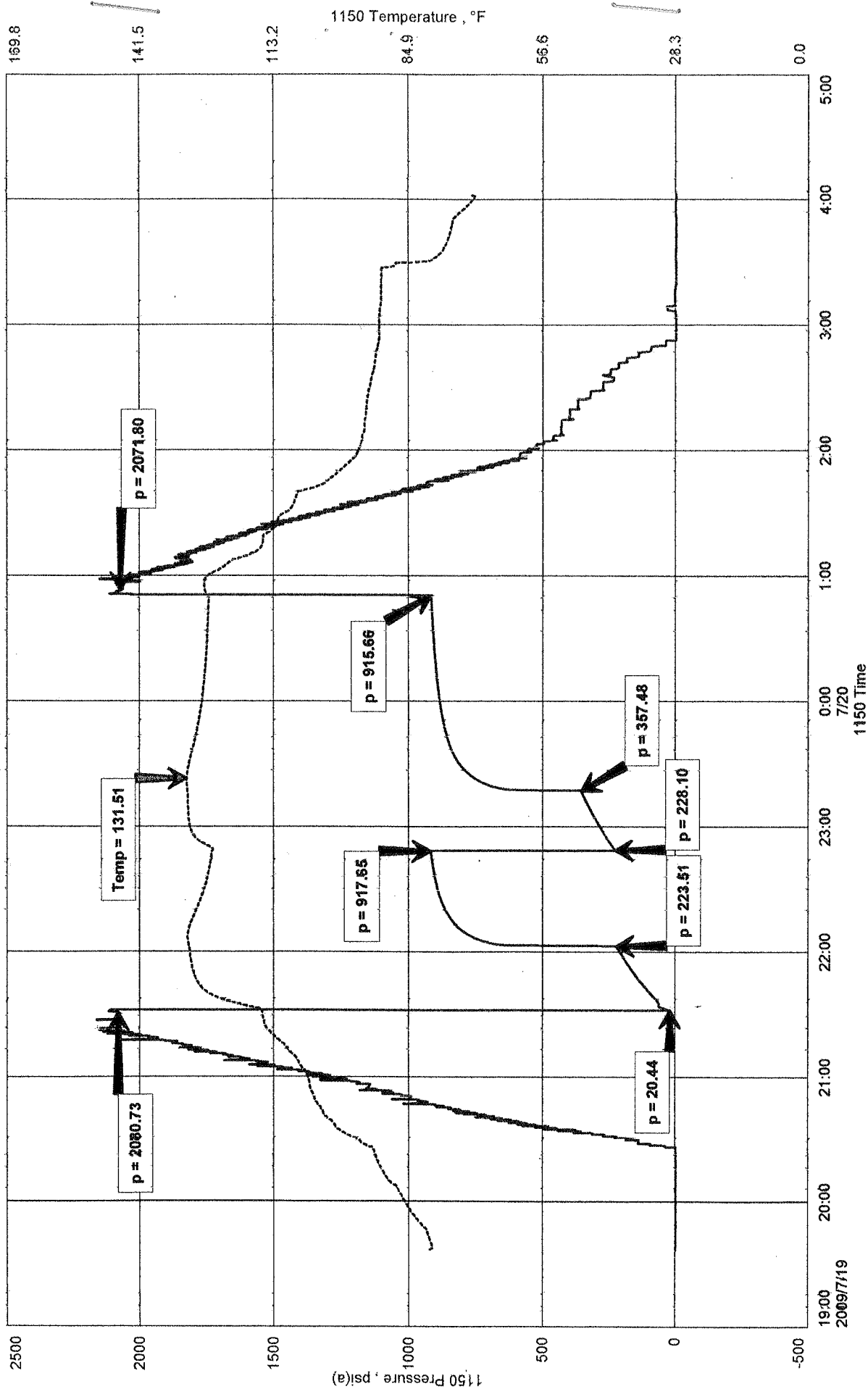
RECOVERD: 963' GAS IN PIPE
940' CLEAN OIL 35.6 GRAVITY @ 60 deg.
20' HOCM 32% OIL, 68% MUD
960' TOTAL FLUID

TOOL SAMPLE: 100% CLEAN OIL

KNIGHTON OIL COMPANY, INC.
 DST #2 HERTHA 4,268' - 4,290'
 Start Test Date: 2009/07/19
 Final Test Date: 2009/07/20

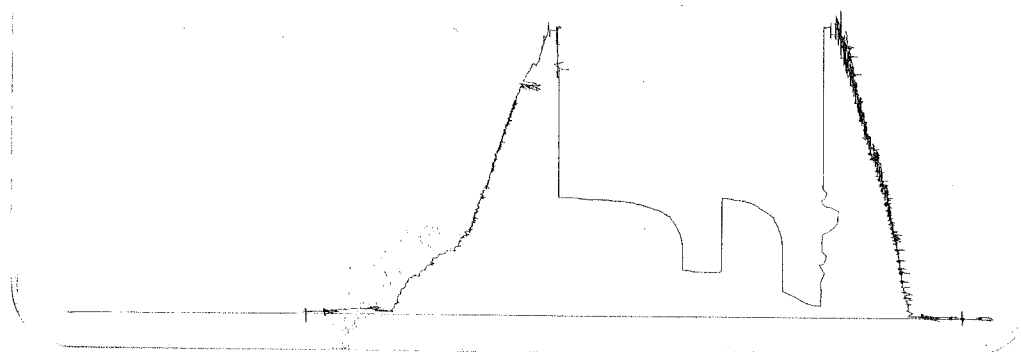
CAROLYN A-1
 Formation: DST #2 HERTHA 4,268' - 4,290'

CAROLYN A-1



DBT # 2 outside 3815
Heath

4268-4290
LOC 4287



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2081	2081
(B) First Initial Flow Pressure	20	20
(C) First Final Flow Pressure	224	224
(D) Initial Closed-in Pressure	918	918
(E) Second Initial Flow Pressure	228	228
(F) Second Final Flow Pressure	357	357
(G) Final Closed-in Pressure	916	916
(H) Final Hydrostatic Mud	2072	2072