DRILL STEM TEST REPORT

Werth

1308 Schwaller Ave
Hays, Ks
67601
ATTN: Herb Deines

Knoll B-1

26-10-25/Graham

Job Ticket: 40932 **DST#: 1**

Test Start: 2010.11.11 @ 02:05:50

GENERAL INFORMATION:

Formation: LKC "A-C"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:54:15
Time Test Ended: 07:51:14

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

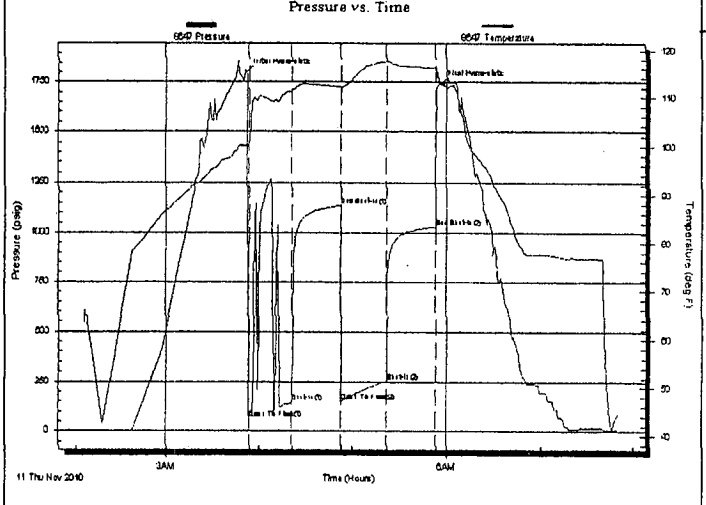
Interval: 3816.00 ft (KB) To 3860.00 ft (KB) (TVD)
Total Depth: 3860.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2517.00 ft (KB)
2509.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8647 Inside
Press@RunDepth: 254.16 psig @ 3820.00 ft (KB)
Start Date: 2010.11.11 End Date: 2010.11.11
Start Time: 02:05:50 End Time: 07:51:14

Capacity: 8000.00 psig
Last Calib.: 2010.11.11
Time On Btm: 2010.11.11 @ 03:52:15
Time Off Btm: 2010.11.11 @ 05:56:15

TEST COMMENT: IFP - BOB 16 min - plugging
ISI - no blow back
FFP - BOB 7 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.10	100.19	Initial Hydro-static
2	65.11	100.27	Open To Flow (1)
30	146.40	111.36	Shut-In(1)
61	1136.30	112.21	End Shut-In(1)
61	153.21	112.00	Open To Flow (2)
90	254.16	117.51	Shut-In(2)
121	1029.87	116.25	End Shut-In(2)
124	1743.02	112.64	Final Hydro-static

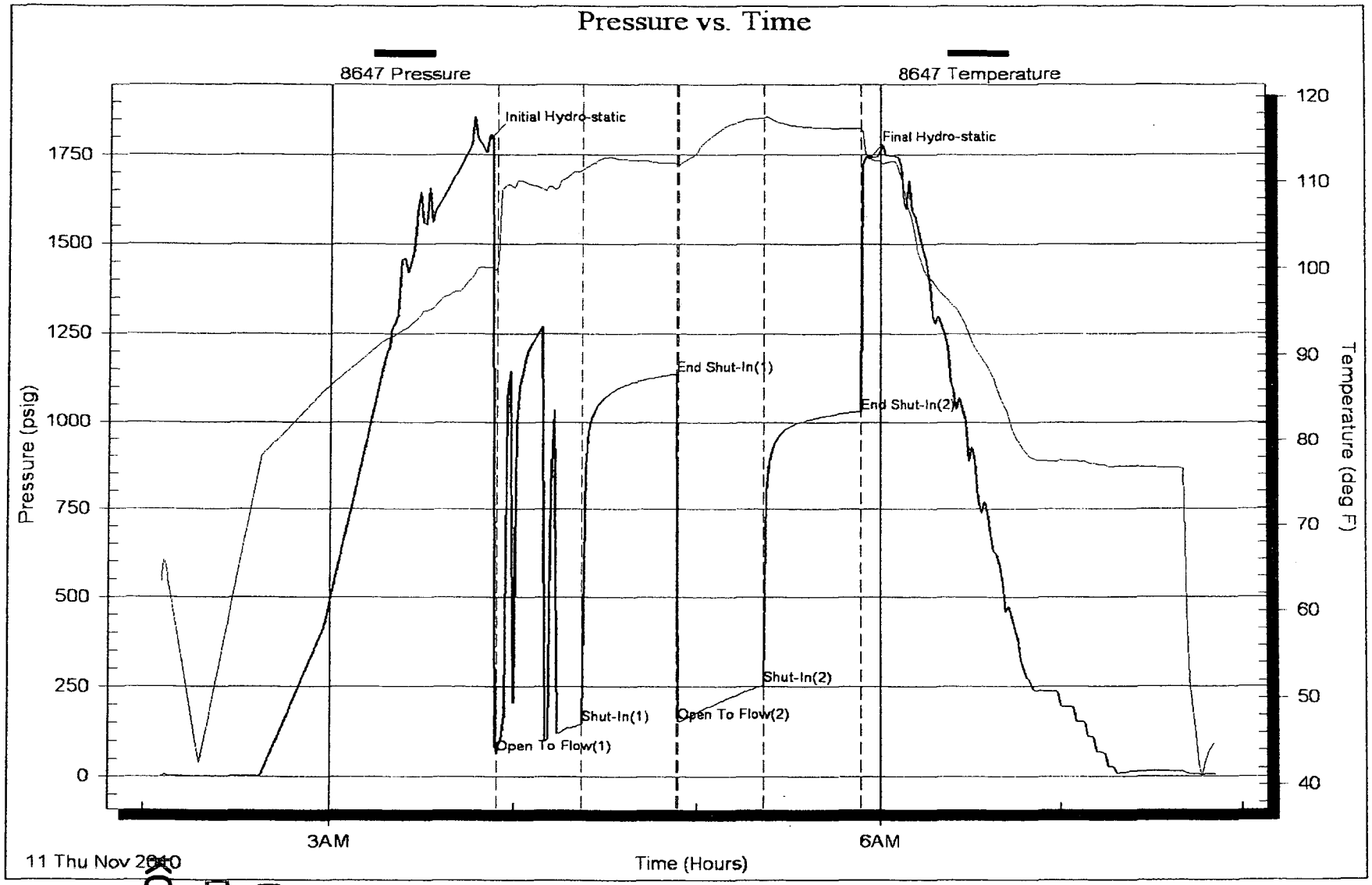
Recovery

Length (ft)	Description	Volume (bbl)
125.00	SGOCMW 10%G, 5%O, 50%W, 35%M	1.47
125.00	GO & WCM 20%G, 15%O, 25%W, 40%M	1.75
185.00	SGO & WCM 5%G, 10%O, 15%W, 70%M	2.60
90.00	VSOCM 2%O, 98%M	1.26
0.00	60' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

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Knoll B-1

26-10-25/Graham

Job Ticket: 40933 **DST#: 2**

Test Start: 2010.11.11 @ 13:52:45

GENERAL INFORMATION:

Formation: LKC "C-D"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:39:40
Time Test Ended: 18:47:39

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: **3840.00 ft (KB) To 3875.00 ft (KB) (TVD)**
Total Depth: 3875.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

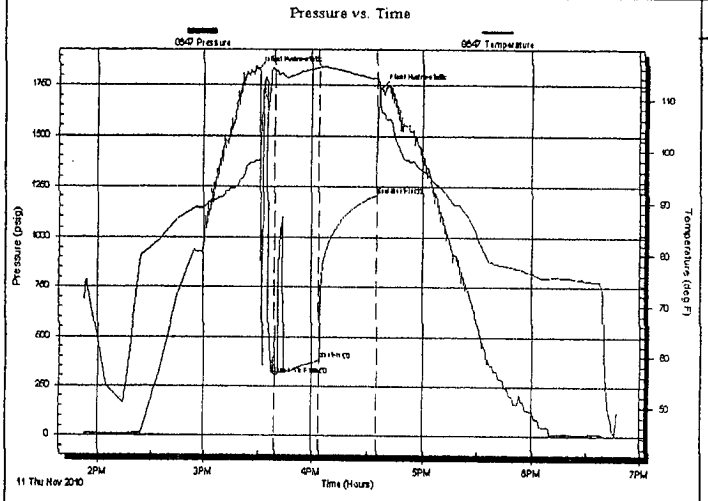
Reference Elevations: 2517.00 ft (KB)
2509.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8647 Inside

Press@RunDepth: 382.22 psig @ 3847.00 ft (KB)
Start Date: 2010.11.11 End Date: 2010.11.11
Start Time: 13:52:45 End Time: 18:47:39

Capacity: 8000.00 psig
Last Calib.: 2010.11.11
Time On Btm: 2010.11.11 @ 15:30:10
Time Off Btm: 2010.11.11 @ 16:37:40

TEST COMMENT: IFP - packer failure - BOB 15 sec
ISI - no blow back
TIME - 30-30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.50	98.00	Initial Hydro-static
10	309.81	115.55	Open To Flow (1)
34	382.22	116.18	Shut-In(1)
65	1206.03	113.98	End Shut-In(1)
68	1735.68	107.65	Final Hydro-static

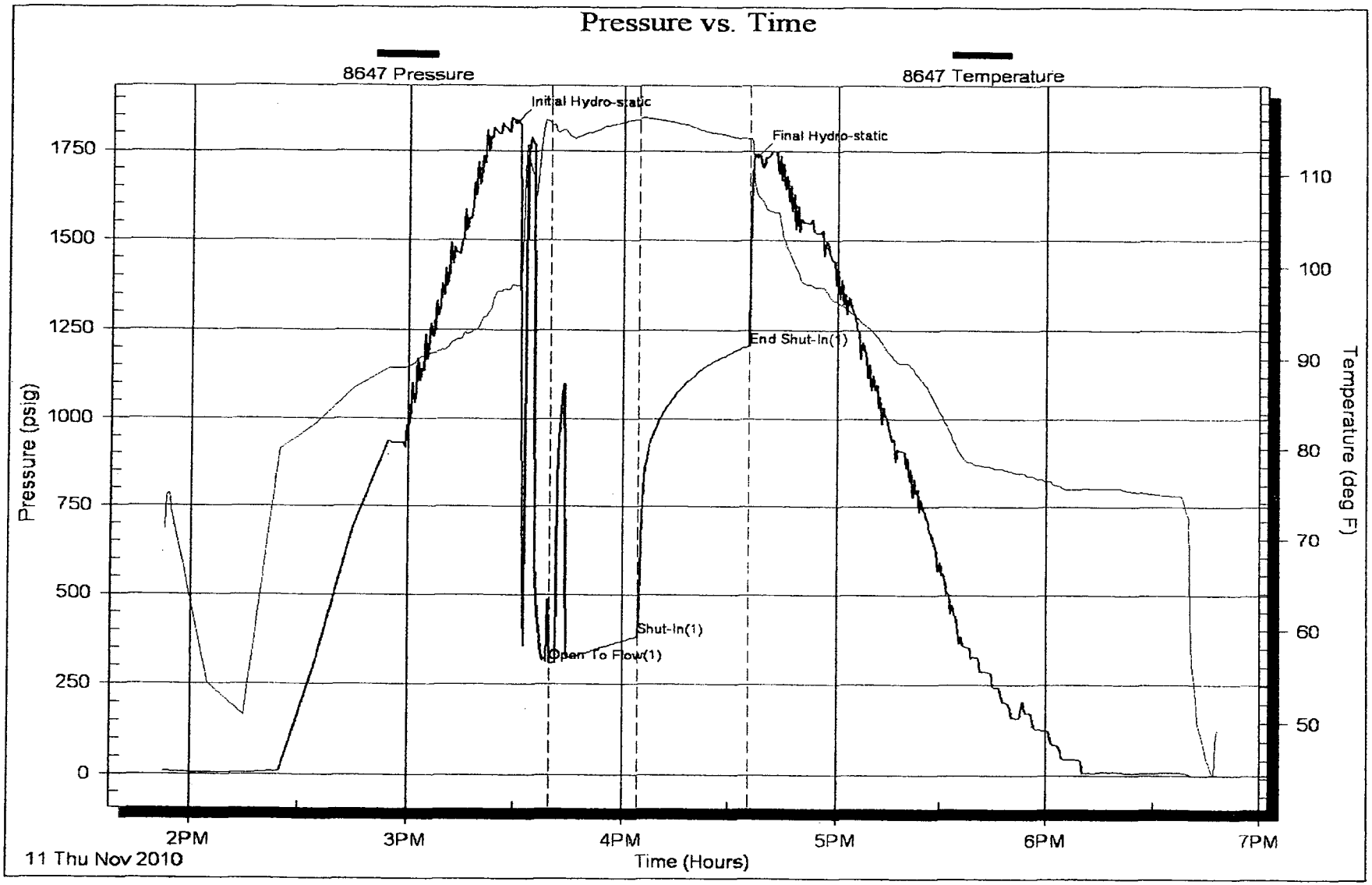
Recovery

Length (ft)	Description	Volume (bbl)
200.00	SGO & WCM 25%G, 5%O, 10%W, 60%	M2.52
550.00	MUD 100%	7.72

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

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Knoll B-1

26-10-25/Graham

Job Ticket: 40934 **DST#: 3**

Test Start: 2010.11.11 @ 19:09:03

GENERAL INFORMATION:

Formation: LKC "C-D"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:49:28
Time Test Ended: 01:41:57

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

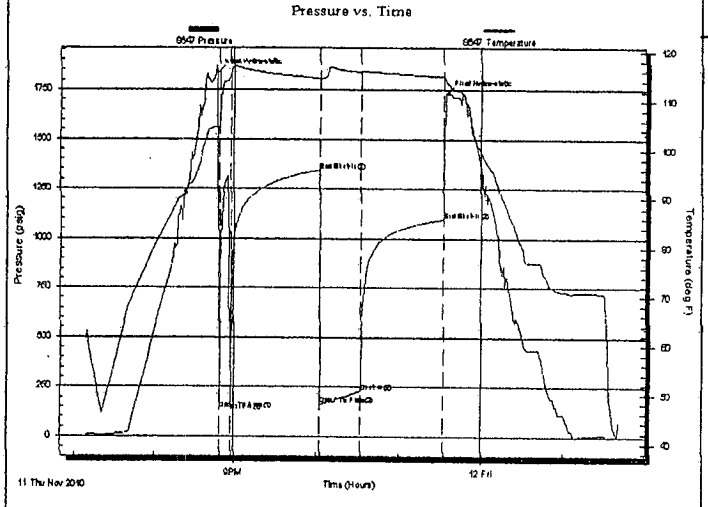
Interval: 3832.00 ft (KB) To 3875.00 ft (KB) (TVD)
Total Depth: 3875.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2517.00 ft (KB)
2509.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8647 Inside
Press@RunDepth: 230.06 psig @ 3836.00 ft (KB)
Start Date: 2010.11.11 End Date: 2010.11.12
Start Time: 19:09:03 End Time: 01:41:57

Capacity: 8000.00 psig
Last Calib.: 2010.11.12
Time On Btm: 2010.11.11 @ 20:47:28
Time Off Btm: 2010.11.11 @ 23:35:27

TEST COMMENT: IFP - BOB 10 sec
ISI - no blow back
FFP - BOB 13 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1834.04	104.80	Initial Hydro-static
2	136.74	105.02	Open To Flow (1)
10	169.04	115.76	Shut-In(1)
76	1343.54	114.65	End Shut-In(1)
77	166.84	114.40	Open To Flow (2)
105	230.06	115.87	Shut-In(2)
165	1095.64	114.95	End Shut-In(2)
168	1731.64	113.46	Final Hydro-static

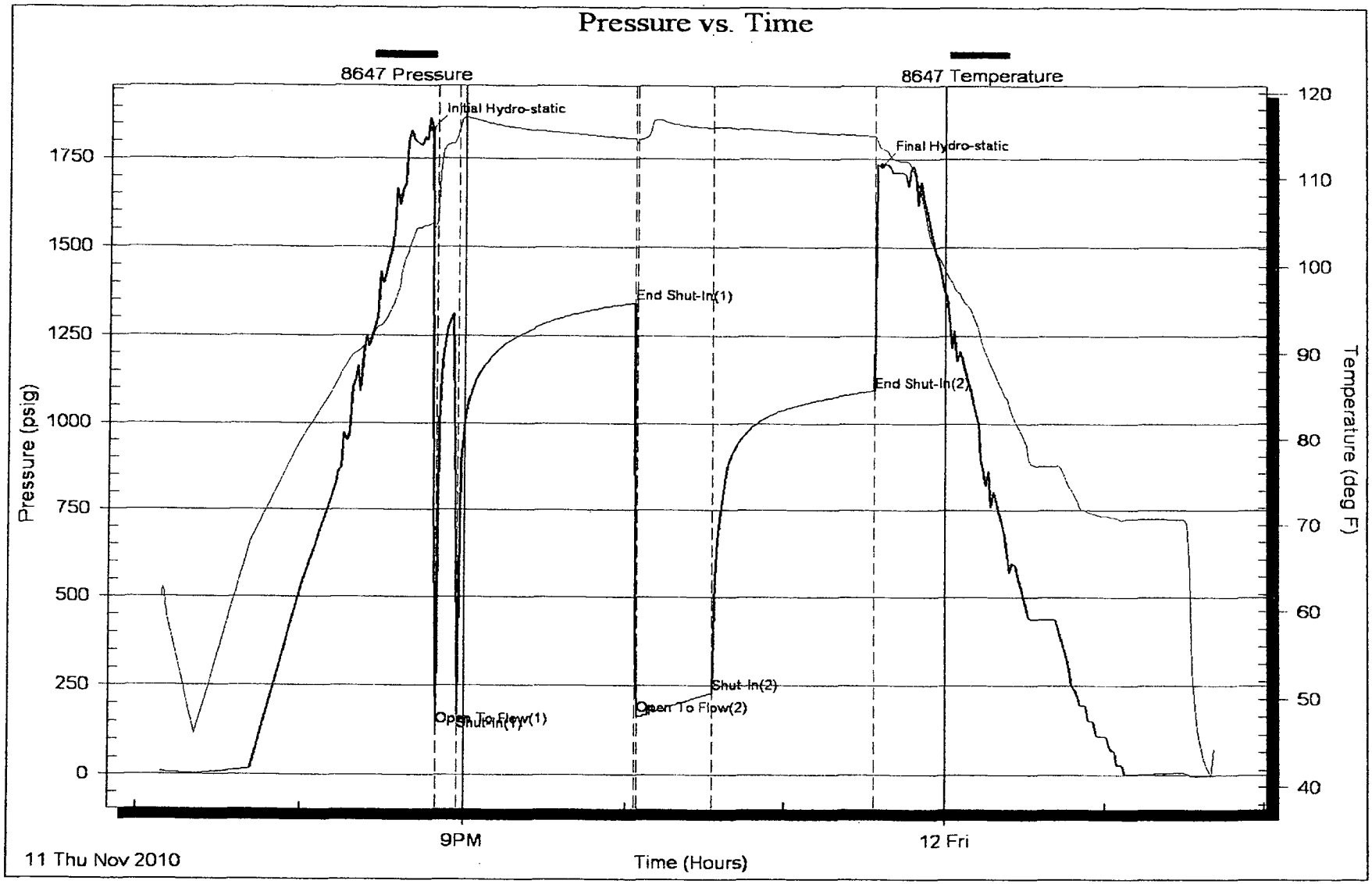
Recovery

Length (ft)	Description	Volume (bbl)
125.00	SW & OCM 5%O, 5%W, 90%M	1.47
325.00	MUD 100%	4.56

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

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ATTN: Herb Deines

Knoll B-1

26-10-25/Graham

Job Ticket: 40935 **DST#: 4**

Test Start: 2010.11.12 @ 16:49:02

GENERAL INFORMATION:

Formation: LKC "H-K"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:33:57
Time Test Ended: 23:08:26

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

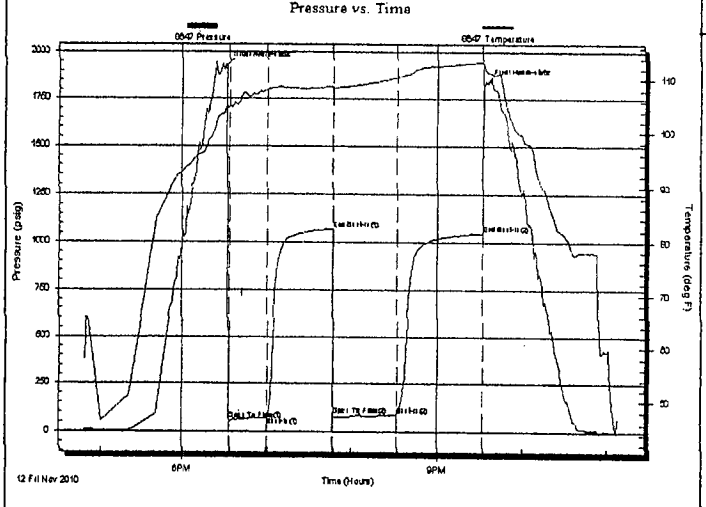
Interval: 3930.00 ft (KB) To 4022.00 ft (KB) (TVD)
Total Depth: 4022.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2517.00 ft (KB)
2509.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8647 Inside
Press@RunDepth: 86.65 psig @ 3936.00 ft (KB)
Start Date: 2010.11.12 End Date: 2010.11.12
Start Time: 16:49:02 End Time: 23:08:26

Capacity: 8000.00 psig
Last Calib.: 2010.11.12
Time On Btm: 2010.11.12 @ 18:31:57
Time Off Btm: 2010.11.12 @ 21:34:56

TEST COMMENT: IFP - weak blow throughout 1" - 3"
ISI - no blow back
FFP - weak blow throughout 1/2" - 3"
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.89	105.22	Initial Hydro-static
2	59.68	104.97	Open To Flow (1)
29	73.63	108.19	Shut-In(1)
75	1068.72	108.67	End Shut-In(1)
76	87.25	108.51	Open To Flow (2)
120	86.65	110.34	Shut-In(2)
181	1050.12	113.33	End Shut-In(2)
183	1837.41	111.56	Final Hydro-static

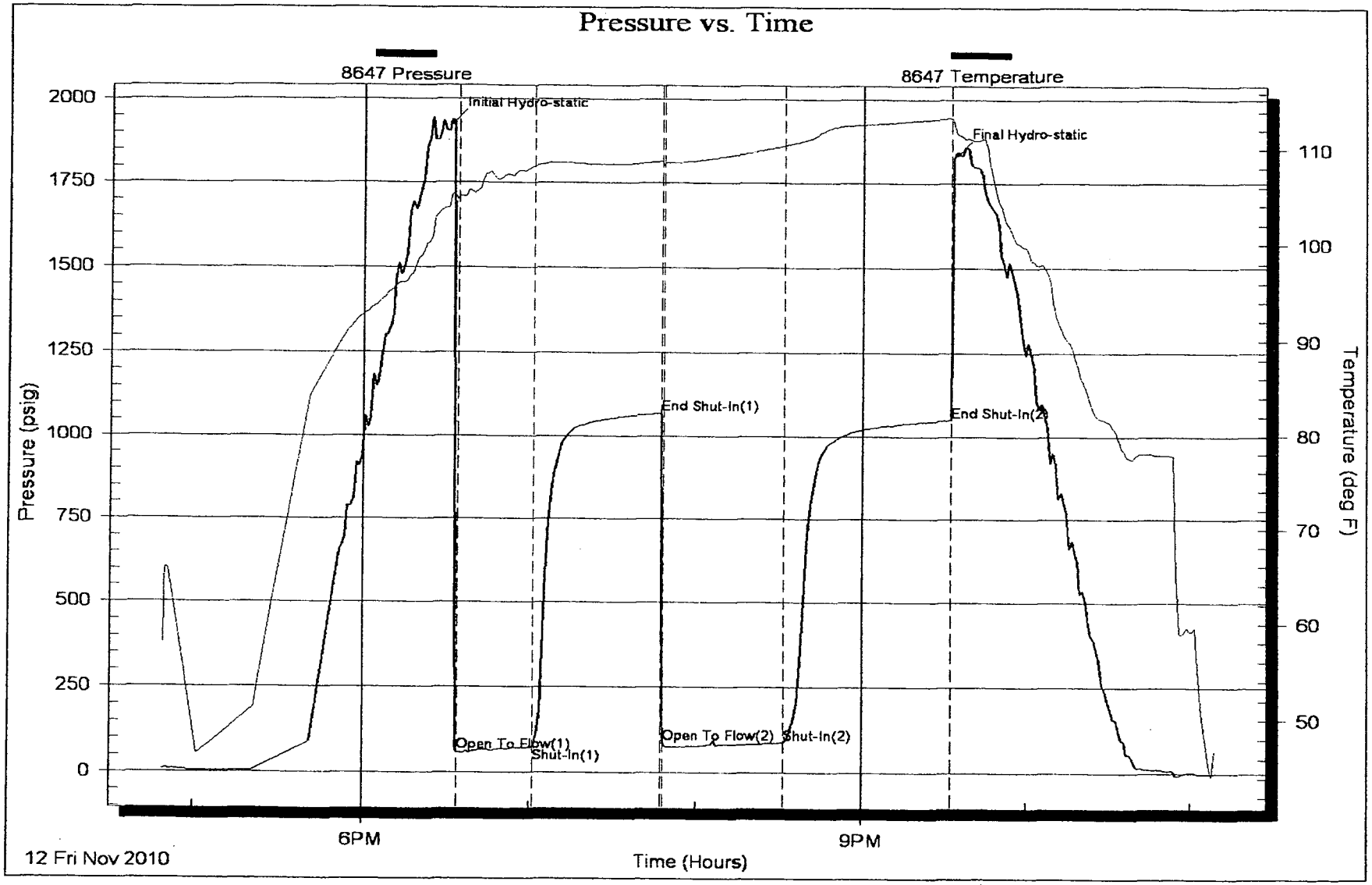
Recovery

Length (ft)	Description	Volume (bbl)
50.00	MUD 100%	0.42
34.00	VSOCM 2%O, 98%M	0.48
1.00	FREE OIL TSTM	0.01

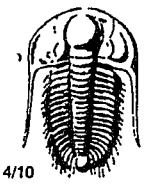
Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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Test Ticket NO. 040960

BY: _____

Well Name & No. Knoll #1 Test No. 5 Date 11-14-10

Company WerTh Exploration Elevation 2547 KB 2509 GL

Address 1308 Shwaller Ave. Hays Ks 67601

Co. Rep / Geo. Herb D Rig Discovery #1

Location: Sec. 26 Twp. 10 Rge. 25 Co. Graham State Ks

Interval Tested 3834 — 3875 Zone Tested C-D LKC

Anchor Length 41 Drill Pipe Run 3809 Mud Wt. 8.9

Top Packer Depth 3874 Drill Collars Run 30 Vis 60

Bottom Packer Depth 3875 Wt. Pipe Run — WL 8

Total Depth 4385 Chlorides 1000 ppm System LCM 1#

Blow Description I.F. Strong B-B in 20sec

F.F. Strong B-B in 10 min.

Rec 375	Feet of Drlg Mud	%gas	%oil	%water	%mud
Rec 120	Feet of Slfy OCM	%gas	2 %oil	%water	98 %mud
Rec 245	Feet of Slty OCGsyW	10 %gas	2 %oil	88 %water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 740 BHT 113 Gravity _____ API RW .11 @ 85 °F Chlorides 72000 ppm

(A) Initial Hydrostatic	1916	☐ Test 1225	T-On Location 10:30
(B) First Initial Flow	124	☐ Jars	T-Started 11:25
(C) First Final Flow	266	☐ Safety Joint	T-Open 13:10
(D) Initial Shut-In	1037	☐ Circ Sub	T-Pulled 15:55
(E) Second Initial Flow	264	☐ Hourly Standby	T-Out 18:24
(F) Second Final Flow	369	☐ Mileage 119 RT 148.75	Comments
(G) Final Shut-In	1028	☐ Sampler	
(H) Final Hydrostatic	1749	☐ Straddle X 600	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open	15	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	30	☐ Extra Recorder	Sub Total 0
Final Flow	60	☐ Day Standby	Total 1973.75
Final Shut-In	60	☐ Accessibility	MP/DST Disc't
		Sub Total 1973.75	

Approved By _____ Our Representative Dan Rangel

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