

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 30259  
Name: Andy Werth dba Werth Exploration Trust  
Address 1: 1308 Schwaller Ave.  
Address 2: \_\_\_\_\_  
City: Hays State: KS Zip: 67601 + \_\_\_\_\_  
Contact Person: Andy Werth  
Phone: ( 785 ) 625-4968  
CONTRACTOR: License # 31548  
Name: Discovery Drilling Co., Inc.  
Wellsite Geologist: Herb Deines  
Purchaser: \_\_\_\_\_

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Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
11-07-2010    11-13-2010    11-14-2010  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 065-23,691-00-00  
Spot Description: \_\_\_\_\_  
N2 N2 NW Sec. 26 Twp. 10 S. R. 25  East  West  
4,950 Feet from  North /  South Line of Section  
3,944 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Graham  
Lease Name: Knoll B Well #: 1  
Field Name: Ambrose Southeast  
Producing Formation: None  
Elevation: Ground: 2509' Kelly Bushing: 2517'  
Total Depth: 4385' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 262.11 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 16,000 ppm Fluid volume: 320 bbls  
Dewatering method used: Air dry  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: *Andy Werth*  
Title: Owner Date: December 02, 2010

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III **PHA** Approved by: Dg Date: 12/16/10

Operator Name: Andy Werth dba Werth Exploration Trust Lease Name: Knoll B Well #: 1  
 Sec. 26 Twp. 10 S. R. 25  East  West County: Graham

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

Electric Log Submitted Electronically  Yes  No  
 (If no, Submit Copy)

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	2164	+353
Topeka	3569	-1052
Heebner Shale	3781	-1264
LKC	3819	-1302
BKC	4046	-1529
Cherokee Shale	4271	-1754
Mississippi	4350	-1833

List All E. Logs Run:  
 Dual Induction, Dual Compensated Porosity Log,  
 Microresistivity Log

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12 1/4"	8 5/8"	23	262.11'	Common	160	2%Gel,3%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
..... Perforate				
..... Protect Casing				
..... Plug Back TD				
..... Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

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TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4507

Date	11/7/10	Sec.	26	Twp.	10	Range	25	County	Graham	State	KS	On Location		Finish	4:30 pm		
Lease	Knoll	Well No.	B-1			Location						St. Peter, 25, 1/2 E, Sinto					
Contractor	Discovery Drilling Sig #1						Owner						To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Type Job	Surface						Charge To						Werth Exporation Trust				
Hole Size	12 1/4			T.D.			263'			Street							
Csg.	95/8 23#			Depth			262'			City						State	
Tbg. Size				Depth			Cement Left in Csg.						15'				
Tool				Depth			Shoe Joint										
Meas Line						Displace			15 3/4 HLL			Cement Amount Ordered				160 Com 3 3/4 cc 2 1/2	

**EQUIPMENT**

Pumptrk	9	No.	Cementer		Common
			Helper	Pawl	
Bulktrk	8	No.	Driver		Poz. Mix
			Driver	Cory	
Bulktrk		No.	Driver		Gel.
			Driver		

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port-Collar	Mud CLR 48
Cement Circulated	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage

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X Signature *[Handwritten Signature]*

Tax  
Discount  
Total Charge

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4897

Date	11-15-10	Sec.	26	Twp.	10	Range	25	County	Grant	State	KS	On Location		Finish	S. Drill
Lease	Knoll B		Well No.	1		Location									
Contractor	D. Sweeney #1					Owner									
Type Job	plug					To: Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	7 7/8"		T.D.	4335'											
Csg.			Depth												
Tbg. Size	4 1/2"		Depth	200'											
Tool			Depth												
Cement Left in Csg.			Shoe Joint												
Meas Line			Displace	114/1000		Cement Amount Ordered									

### EQUIPMENT

Pumptrk	1	No.	Cementer		Common
			Helper		
Bulktrk	20	No.	Driver		Poz. Mix
			Driver		
Bulktrk	2	No.	Driver		Gel.
			Driver		

### JOB SERVICES & REMARKS

Remarks:	Cemented Casing	Calcium
Rat-Hole		Hulls
Mouse Hole		Salt
Centralizers		Flowseal
Baskets		Kol-Seal
D/V or Port Collar		Mud CLR 48
2 1/4" - 25'		CFL-117 or CD110 CAF 38
1 3/8" - 100-52'		Sand
3/4" - 40-52'		Handling
40' - 100-52'		Mileage

### FLOAT EQUIPMENT

Rat - 300'	Guide Shoe
Mouse 15-52'	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage

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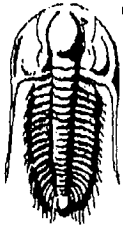
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Tax  
Discount  
Total Charge

X Signature

*[Handwritten Signature]*



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Werth  
1308 Schwaller Ave  
Hays, Ks  
67601  
ATTN: Herb Deines

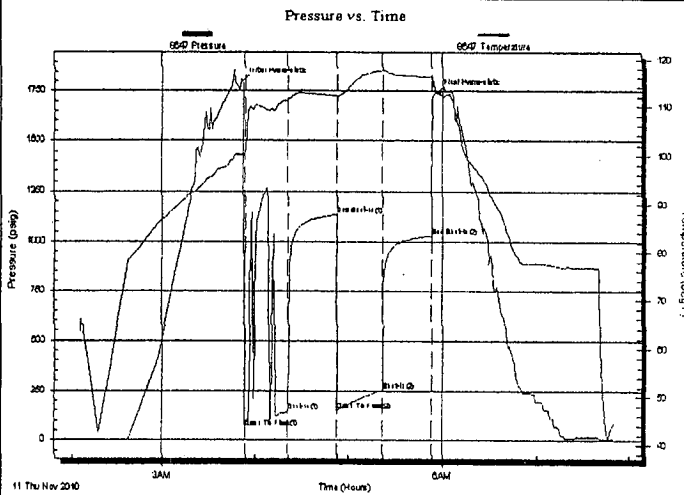
Knoll B-1  
26-10-25/Graham  
Job Ticket: 40932      DST#: 1  
Test Start: 2010.11.11 @ 02:05:50

## GENERAL INFORMATION:

Formation: LKC "A-C"  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 03:54:15  
Time Test Ended: 07:51:14  
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:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
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

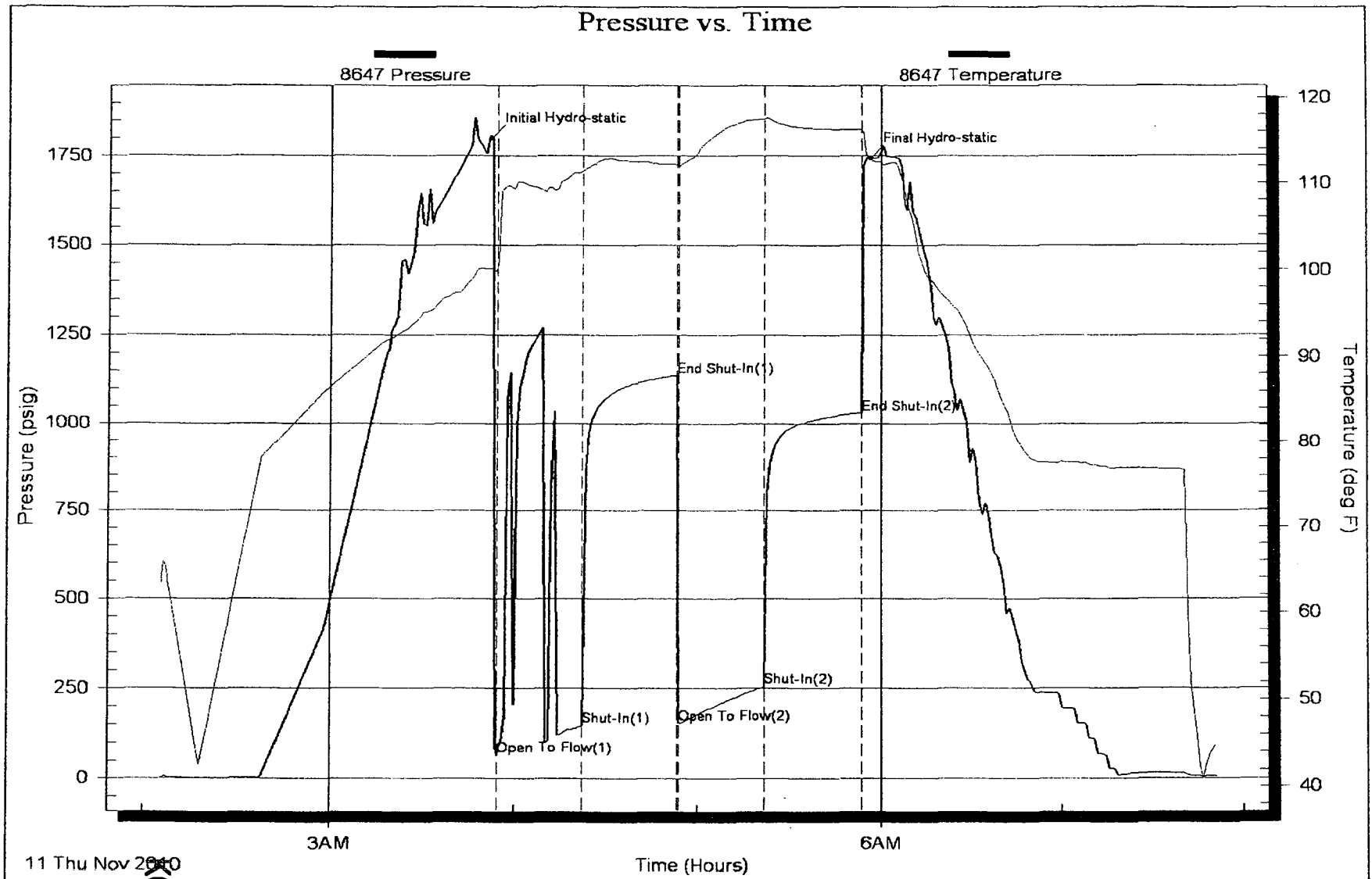
## Recovery

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

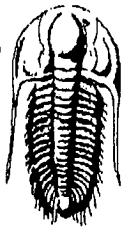
## Gas Rates

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

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TESTING, INC**

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67601  
ATTN: Herb Deines

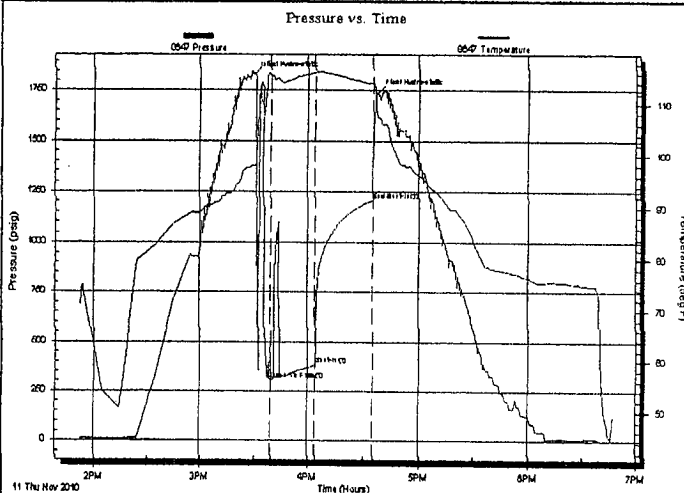
Knoll B-1  
26-10-25/Graham  
Job Ticket: 40933      DST#: 2  
Test Start: 2010.11.11 @ 13:52:45

## GENERAL INFORMATION:

Formation: LKC "C-D"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 15:39:40  
Time Test Ended: 18:47:39  
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:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
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

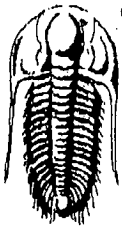
## Gas Rates

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

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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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Hays, Ks  
67601  
ATTN: Herb Deines

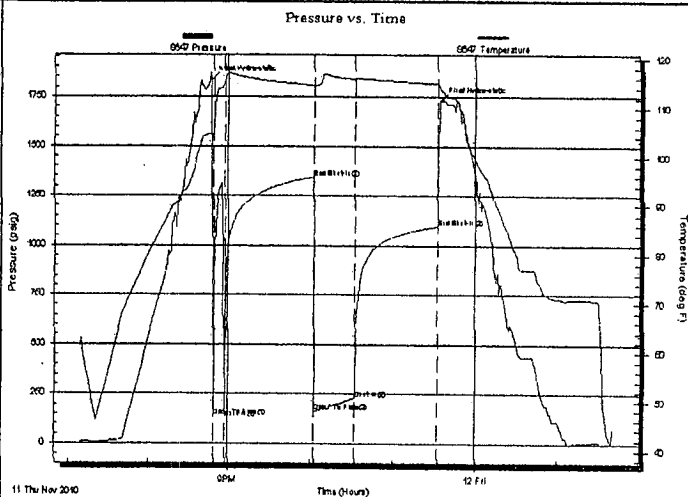
Knoll B-1  
26-10-25/Graham  
Job Ticket: 40934      DST#: 3  
Test Start: 2010.11.11 @ 19:09:03

## GENERAL INFORMATION:

Formation: LKC "C-D"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:49:28  
Time Test Ended: 01:41:57  
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:  
Test Type: Conventional Bottom Hole  
Tester: Brian Fairbank  
Unit No: 41  
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)      Capacity: 8000.00 psig  
Start Date: 2010.11.11      End Date: 2010.11.12      Last Calib.: 2010.11.12  
Start Time: 19:09:03      End Time: 01:41:57      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

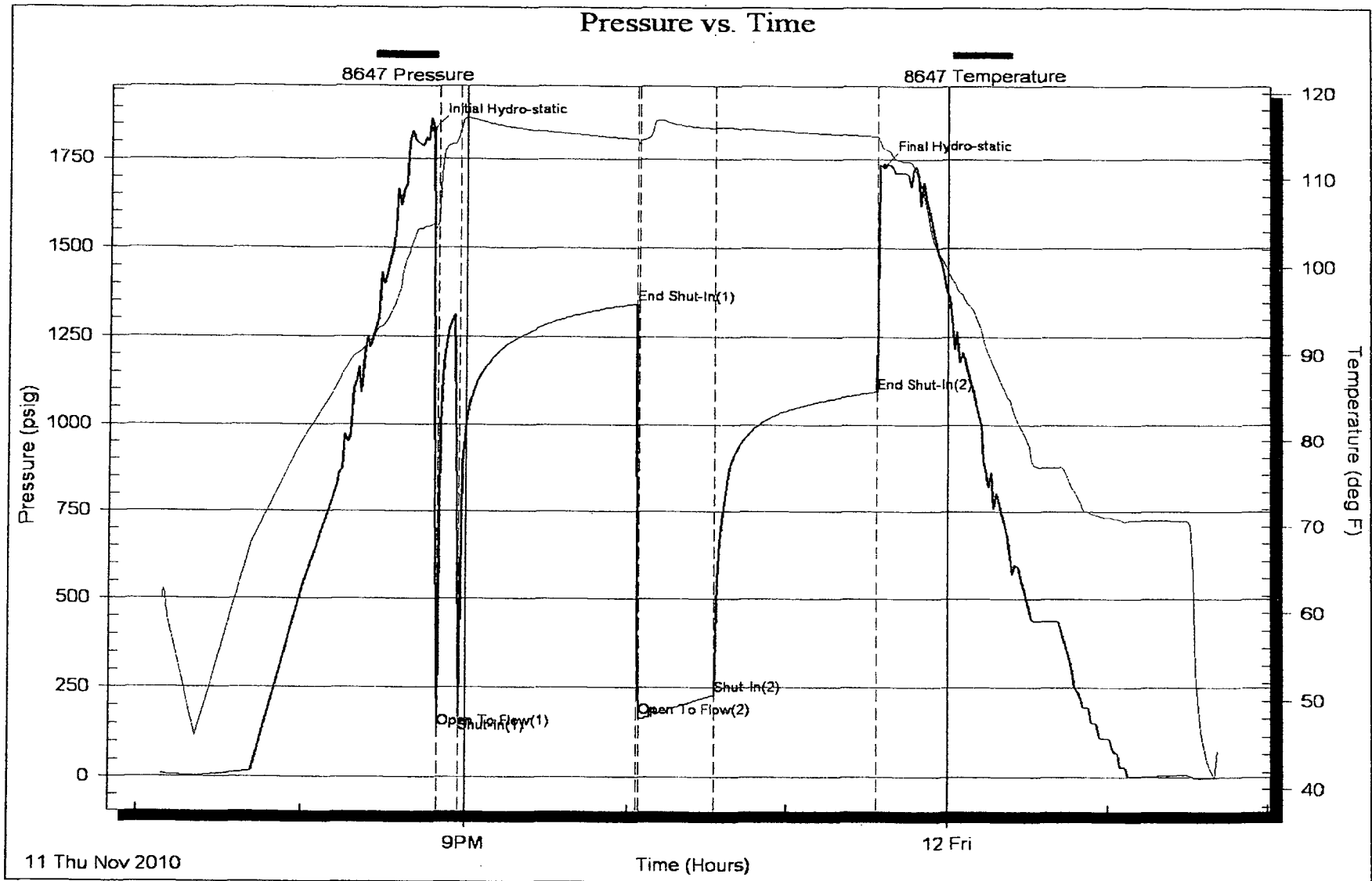
## Recovery

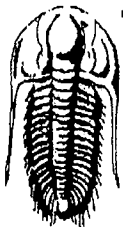
Length (ft)	Description	Volume (bbl)
125.00	SW & OCM 5% O, 5% W, 90% M	1.47
325.00	MUD 100%	4.56

## Gas Rates

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

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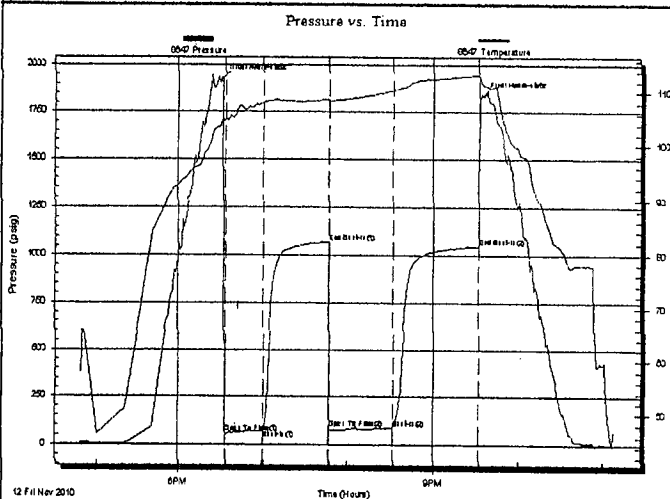
Knoll B-1  
26-10-25/Graham  
Job Ticket: 40935      DST#: 4  
Test Start: 2010.11.12 @ 16:49:02

## GENERAL INFORMATION:

Formation: LKC "H-K"  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 18:33:57  
 Time Test Ended: 23:08:26  
 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:  
 Test Type: Conventional Bottom Hole  
 Tester: Brian Fairbank  
 Unit No: 41  
 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)      Capacity: 8000.00 psig  
 Start Date: 2010.11.12      End Date: 2010.11.12      Last Calib.: 2010.11.12  
 Start Time: 16:49:02      End Time: 23:08:26      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

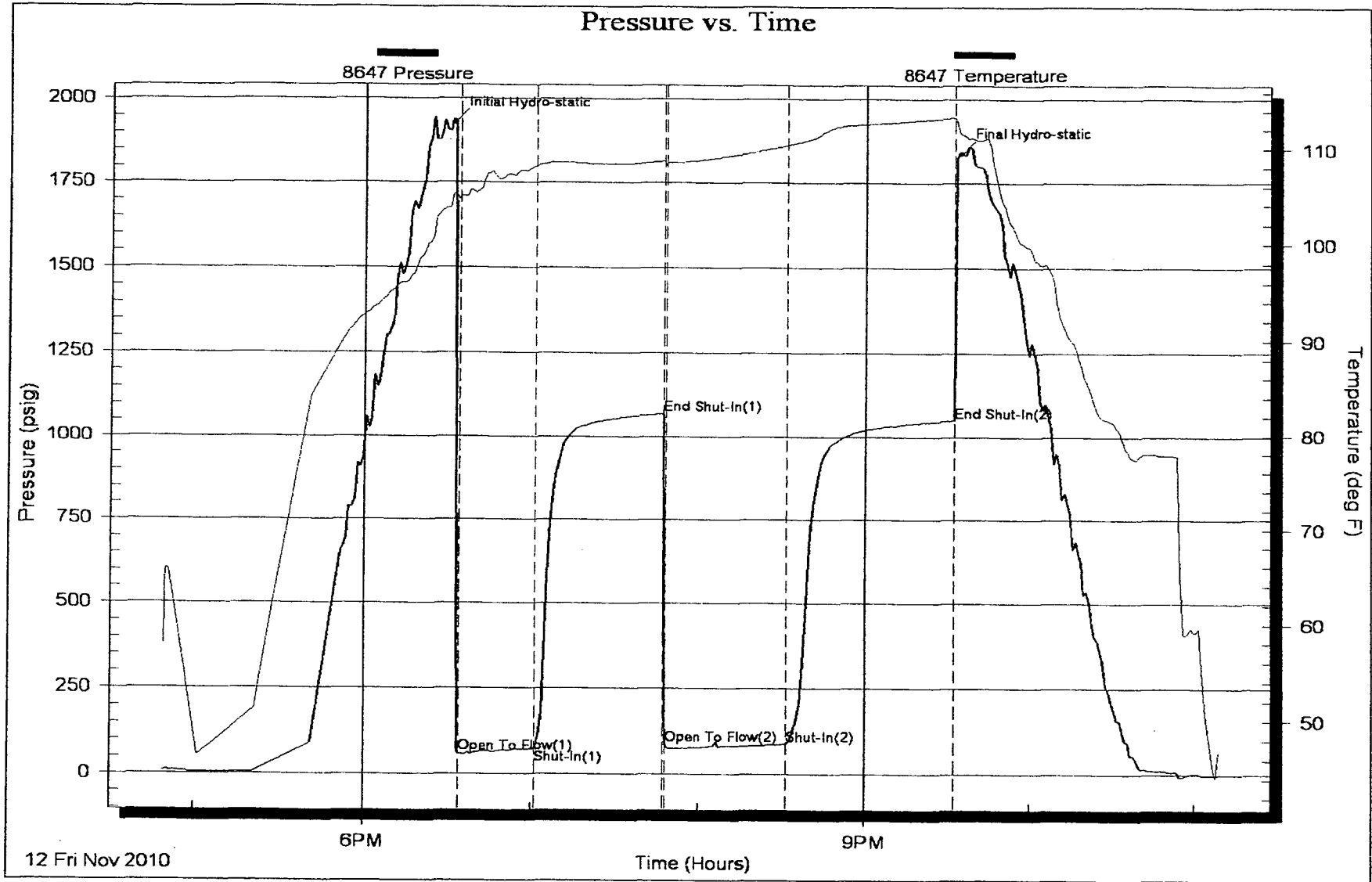
## Recovery

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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