

CONFIDENTIAL

ORIGINAL

1/24/10

Form ACO-1
October 2008

Form Must Be Typed

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5363
 Name: Berexco Inc.
 Address 1: PO Box 20380
 Address 2: _____
 City: Wichita State: KS Zip: 67208 + _____
 Contact Person: Jeremy Enszt
 Phone: (316) 265-3311
 CONTRACTOR: License # 5147
 Name: Berexco Inc.
 Wellsite Geologist: Bryan Bynog
 Purchaser: Central Crude Corp.
 Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
 Oil _____ SWD _____ SLOW _____
 _____ Gas _____ ENHR _____ SIGW _____
 _____ CM (Coal Bed Methane) _____ Temp. Abd. _____
 _____ Dry _____ Other _____
 (Core, WSW, Expl., Cathodic, etc.)

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 27 2009

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

JAN 24 2009

KCC

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 _____
 _____ Plug Back: _____ Plug Back Total Depth _____
 _____ Commingled _____ Docket No.: _____
 _____ Dual Completion _____ Docket No.: _____
 _____ Other (SWD or Enhr.?) _____ Docket No.: _____
 11/6/08 11/18/08 11/1/09
 Spud Date or Date Reached TD Completion Date or
 Recompletion Date Recompletion Date

API No. 15 - 065-23504-0000
 Spot Description: _____
 N/2 NE SE NE Sec. 32 Twp. 8 S. R. 25 East West
1492 Feet from North / South Line of Section
330 Feet from East / West Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
 County: Graham
 Lease Name: Knoll North Unit Well #: D-2
 Field Name: Knoll North
 Producing Formation: Lansing Kansas City
 Elevation: Ground: 2504 Kelly Bushing: 2513
 Total Depth: 4083 Plug Back Total Depth: 4033
 Amount of Surface Pipe Set and Cemented at: 4079 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set: 2238 Feet
 If Alternate II completion, cement circulated from: 2238
 feet depth to: surface w/ 300

Drilling Fluid Management Plan
 (Data must be collected from the Reserve Pit)
 Chloride content: 1400 ppm Fluid volume: 660 bbls
 Dewatering method used: evaporation
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

AH 2-Dlg - 4/21/09

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.

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: _____
 Title: District Engineer Date: 1/24/09
 Subscribed and sworn to before me this 24th day of January
09
 Notary Public: Anne Bowman
 Date Commission Expires: 6/2/11

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UI Distribution

ANNE A. BOWMAN
 NOTARY PUBLIC
 STATE OF KANSAS

Operator Name: Berexo Inc. Lease Name: Knoll North Unit Well #: D-2
 Sec: 32 Twp. 8 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: RAG, MEL, BHCS	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Base Anhydrite</td> <td>2259</td> <td>+254</td> </tr> <tr> <td>Heebner</td> <td>3758</td> <td>-1245</td> </tr> <tr> <td>Toronto</td> <td>3781</td> <td>-1268</td> </tr> <tr> <td>LKC</td> <td>3798</td> <td>-1285</td> </tr> </table> <div style="text-align: center; font-weight: bold; font-size: 1.2em;"> KCC JAN 24 2009 CONFIDENTIAL </div>	Name	Top	Datum	Base Anhydrite	2259	+254	Heebner	3758	-1245	Toronto	3781	-1268	LKC	3798	-1285
Name	Top	Datum														
Base Anhydrite	2259	+254														
Heebner	3758	-1245														
Toronto	3781	-1268														
LKC	3798	-1285														

CASING RECORD <input checked="" 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	12.25"	8-5/8"	20	281	common	190	2% gel, 3% cc
Production	7.875"	5-1/2"	15.5	4079	See attached	600	see attached

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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
4	3924-28	1250 gal acid	<div style="font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="font-weight: bold; font-size: 1.2em;">KANSAS CORPORATION COMMISSION</div> <div style="font-weight: bold; font-size: 1.2em;">JAN 27 2009</div> <div style="font-weight: bold; font-size: 1.2em;">CONSERVATION DIVISION</div> <div style="font-weight: bold; font-size: 1.2em;">WICHITA, KS</div>
4	3964-68	250 gal acid	

TUBING RECORD: Size: <u>2.875"</u> Set At: <u>4023</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>1/1/09</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls. <u>65</u>	Gas Mcf	Water Bbls. <u>20</u>
			Gas-Oil Ratio
			Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ALLIED CEMENTING CO., LLC. 043972

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley, KS

11-18-08
DATE
Rusell North
LEASE Unit #

SEC. 32
TWP. 8S
RANGE 25W
WELL# D-2
LOCATION Steadley 16-11/2-16-25

10:00 AM
CALLED OUT
ON LOCATION

JOB START 10:00pm
JOB FINISH 11:00pm
COUNTY Graham
STATE KS

OLD OR NEW (Circle one)

CONTRACTOR Beredro #10

TYPE OF JOB 2-stage (Top)

HOLE SIZE 7 7/8 T.D.

CASING SIZE 5 1/2 DEPTH 2238'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 53.2

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzie

431 HELPER Kelly

BULK TRUCK

394 DRIVER Chuck

BULK TRUCK

DRIVER

REMARKS:

Mix 15 sks MH, 30 sks in RH
mix 300 sks down csg. Washout
pump lines. Displace plus lead tool
shoot bit 1500' Land. float held
Plug down @ 11:00 pm. Cement
did calculate approx @ BAHs. Tanks
Fuzzie & crew

CHARGE TO: Beredro Inc

STREET _____

CITY _____ STATE _____ ZIP _____

OWNER _____

CEMENT

AMOUNT ORDERED 400 line 11ct

210-500

used 345 sks rate 1/4" flo-seal

COMMON @ _____

POZMIX @ _____

GEL @ _____

CHLORIDE @ _____

ASC @ _____

Line 345 sks @ 14.05 4847.25

Slasral 87' @ 2.59 217.73

HANDLING 42/sks @ 2.40 1034.40

MILEAGE 60 x 24 mile 2586.00

TOTAL 8685.38

SERVICE

DEPTH OF JOB 2238

PUMP TRUCK CHARGE 1185

EXTRA FOOTAGE @ _____

MILEAGE 60 mi @ NA

MANIPULATED @ _____

KANSAS CORPORATION COMMISSION @ _____

JAN 27 2009

CONSERVATION DIVISION
WICHITA, KS

TOTAL 1185.00

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

TOTAL _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mad [Signature]

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 043971

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

KCC

SERVICE POINT:

JAN 24 2009

OAKLEY KS

10:00 AM

DATE 11-19-08	SEC. 32	TWP. 8S	RANGE 25W	CALLED OUT CONFIDENTIAL	ON LOCATION 2:00 PM	JOB START 8:00 PM	JOB FINISH 9:00 PM
KNOW LEASE North	UNIT WELL# D-2	LOCATION Studley 16. 1/2 S. 1 E			COUNTY Graham	STATE KS	
OLD OR <u>NEW</u> (Circle one)				25 W W			

CONTRACTOR Beredro #10

TYPE OF JOB 2-stage (Bottom)

HOLE SIZE 7 7/8 T.D. 4080

CASING SIZE 5 1/2 15.5 DEPTH 4083

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL DU Tool DEPTH 2238'

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 42.67

CEMENT LEFT IN CSG. 42.67

PERFS. _____

DISPLACEMENT 53.2 mid

EQUIPMENT 42.6 water

OWNER _____

CEMENT

AMOUNT ORDERED 100 SKS Lite 14#

Closeal, 200 ASC 29 Seal

10 29 Seal

COMMON	@	_____	_____
POZMIX	@	_____	_____
GEL	@	<u>4</u>	<u>20.56</u>
CHLORIDE	@	_____	_____
ASC	@	<u>200</u>	<u>18.60</u>
	@	_____	_____
Lite	@	<u>100</u>	<u>14.05</u>
	@	_____	_____
Salt	@	<u>20. KS</u>	<u>23.95</u>
	@	_____	_____
Closeal	@	<u>25#</u>	<u>2.50</u>
	@	_____	_____
	@	_____	_____
HANDLING	@	<u>336</u>	<u>2.40</u>
MILEAGE	@	<u>10 x 5K mile</u>	<u>2016.00</u>
			TOTAL <u>8572.10</u>

PUMP TRUCK CEMENTER Fuzzy

431 HELPER Kelly

BULK TRUCK

373 DRIVER Walt M.

BULK TRUCK

394 DRIVER Chuck (Russell)

REMARKS:

Mix 100SKS Lite 14# Closeal Tail with
200SKS ASC 29 Seal 10 29 Seal. Wash out
pump & lines. Dig down plus to hatchdown
1400 K.C. 1800# Land. Closeal
Drop PU Bomb with 15 min open tool
@ 1200#. Circ 1 hr. Plug down
@ 8:30 pm. Thanks Fuzzy & crew

SERVICE

DEPTH OF JOB	_____	<u>4083'</u>
PUMP TRUCK CHARGE	_____	<u>2092.00</u>
EXTRA FOOTAGE	@	_____
MILEAGE RECEIVES	@	<u>60</u>
KANSAS CORPORATION COMMISSION	@	<u>7.00</u>
MANIFOLD	@	<u>113.00</u>
	@	_____
	@	_____
JAN 27 2009		
TOTAL <u>2625.00</u>		

CHARGE TO: Beredro Inc

STREET _____

CITY _____ STATE _____ ZIP _____

CONSERVATION DIVISION
WICHITA, KS

PLUG & FLOAT EQUIPMENT

1. Hatchdown Assy	_____	<u>462.00</u>
1. AFO Float shoe	@	<u>529.00</u>
2. Buckets	@	<u>186.00</u>
11. Centralizers	@	<u>57.00</u>
1. DU Tool	@	<u>(L) 4500.00</u>
	@	_____
TOTAL <u>6862.00</u>		

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Maui Da

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

BEREXCO INC.

January 24, 2008

Kansas Corporation Commission
Oil & Gas Conservation Division
130 S. Market, Room 2078
Wichita, KS 67202

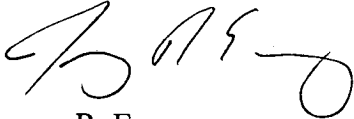
Subject: Request for Confidentiality
Knoll North Unit D-2
N/2 NE SE NE 32-8S-25W
Graham County, Kansas
API # 15-065-23504

KCC
JAN 24 2009
CONFIDENTIAL

BEREXCO, INC. requests that the enclosed information be held confidential for one year as per K.A.R. Rule 82-3-107 (e).

Please do not hesitate to contact me if you have any questions.

Sincerely,



Jeremy R. Ensz
District Engineer
BEREXCO, INC.
316-265-3311
jeremy@berexco.com

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 27 2009

CONSERVATION DIVISION
WICHITA, KS

enc: ACO-1
Cement Tickets (3)
DST Report
Geologist Log and Report
Logs (RAG, MEL, BHCS)

**BEREXCO, INC.
KNOLL NORTH UNIT D-2
N2 NESENE SECTION 32 T8S-R25W
GRAHAM, KANSAS**

**RECEIVED
KANSAS CORPORATION COMMISSION**

JAN 27 2009

**CONSERVATION DIVISION
WICHITA, KS**

**GEOLOGIST
WILLIAM B. BYNOG**

RESUME

OPERATOR: BEREXCO, INC.

WELL NAME & NUMBER: KNOLL NORTH UNIT D-2

LOCATION: N2 NESENE SECTION 32 TS-R25W

COUNTY: GRAHAM

STATE: KANSAS

SPUD DATE: 9-10-2008 COMPLETION DATE: 9-25-2008

ELEVATIONS: GL: 2504' KB: 2513'

CONTRACTOR: BEREDCO RIG 10

LOGS: LOG-TECH TYPES: RAG, DENSITY-NEUTRON,
MICROLOG & SONIC
ENGINEER: J. LOFFREDI

WELLSITE ENGINEER: NONE

MUD COMPANY: MUD CO. MUD

MUD TYPE & ENGINEER: FRESH CHEMICAL: JODY DIETZ

GEOLOGIST: WILLIAM B. BYNOG

HOLE SIZE: 7 7/8

MUD LOGGING BY: EARTH TECH

DRILL STEM TEST COMPANY: TRILOBITE TESTING

DRILL STEM TEST: DST#1 3812-52, DST#2 3850-80, DST#3
3900-30, DST#4 3936-76, DST#5 3980-
4025

WELL STATUS: RAN PRODUCTION CASING

SUMMARY AND CONCLUSION

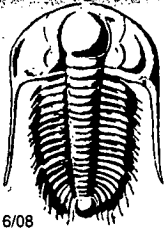
Knoll North Unit # D-2 was drilled a total depth of 4085 feet testing the Lansing Kansas City Formation. Our primary objective was the Lansing Kansas City carbonates. This hole was a direct offset to the productive I A Operating, Inc. Cully Trust # 33-1 well located in section 33.

The Lansing Kansas City came in two feet high to Cully Trust # 33-1 with good hydrocarbon shows in the Lansing Kansas City B, F, H, J and K zones. All these zones were tested with some good results. The H and J zones had the best results recovering all oil and gas, no water. The H zone recovered 2500 feet gas in pipe and 660 feet of clean oil. The J zone also recovered 630 feet gas in pipe and 180 feet of heavy mud cut oil (60% oil). The B and F zones were tested recovering small amounts oil, mud and water. The K Zone test was a misrun.

Logs agreed with sample evaluation and drill stem test data recording good porosity development and fair pressures. A decision was made to set production pipe on the favorable logs and Drill stem test.

FORMATION TOPS

FORMATION	DEPTH (LOGS)
STONE CORRAL	2224(+289)
TOPEKA	
35' ZONE	
PLATTSMOUTH	
HEEBNER	3758(-1245)
TORONTO	
LANSING A	3798(-1285)
B ZONE	3828(-1315)
C/D	3840(-1327)
F ZONE	3870(-1357)
H ZONE	3924(-1411)
J ZONE	3562(-1453)
K ZONE	4006(-1497)
BKC	4022(-1509)



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Knoll North Unit 0-2 Test No. 7 Date 11-13-08
 Company Fevexco Zone Tested LKL B-C
 Address _____ Elevation 2513 KB 2504 GL _____
 Co. Rep / Geo. _____ Rig Beredco #10
 Location: Sec. 32 Twp. 8 Rge. 25 Co. Graham State KS
 Comment: _____

Interval Tested 3812 - 3852 Drill Pipe Size 4" 3.34
 Anchor Length 40' Wt. Pipe Run _____
 Top Packer Depth 3807 Drill Collar Run 215
 Bottom Packer Depth 3812 Ft. Run 3574
 Total Depth 3852 Recorder #(s) 8319, 8369
 Blow Description _____

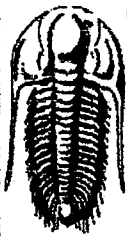
Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>90</u>	Feet of <u>MCW</u>						
Rec. <u>95</u>	Feet of <u>SI + OCM</u>			<u>1</u>			<u>99</u>
Rec. <u>10</u>	Feet of <u>Clean Oil</u>						
Rec. _____	Feet of _____						
Rec. _____	Feet of _____						

BHT 117 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .31 @ 71 °F Chlorides 23000 ppm Recovery _____ Chlorides 1000 ppm System

IF <u>19</u>	<input checked="" type="checkbox"/> Test	<input type="checkbox"/> Sampler	<input type="checkbox"/> Day Standby
ISI <u>30</u>	<input checked="" type="checkbox"/> Jars	<input type="checkbox"/> Straddle	<input type="checkbox"/> Accessibility
FF <u>45</u>	<input checked="" type="checkbox"/> Safety Joint	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
FSI <u>90</u>	<input type="checkbox"/> Circ Sub	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
T-on Loc <u>1:00</u>	<input checked="" type="checkbox"/> Hourly Standby	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
T-started <u>3:00</u>	<input checked="" type="checkbox"/> Mileage <u>76x2</u>	<input type="checkbox"/> Other _____	
T-open <u>6:06</u>	Sub Total _____	Sub Total _____	Sub Total _____
T-pulled <u>9:06</u>			
T-out <u>12:00</u>			Total _____

Trilobite Testing, Inc. shall not be liable for damage of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Approved By [Signature] Our Representative Kyle B.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco Inc.
PO Box 20380
Wichita, KS 60208
ATTN: Brian Bynog

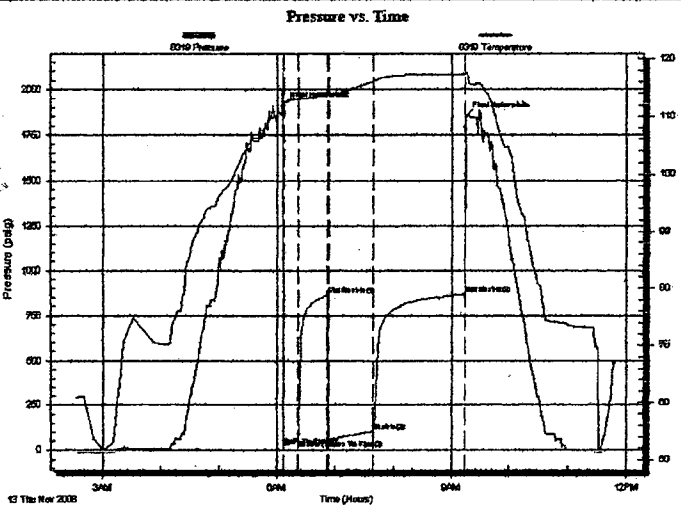
Knoll North unit D-2
32-8-25 Graham KS
Job Ticket: 33542 **DST#: 1**
Test Start: 2008.11.13 @ 02:33:54

GENERAL INFORMATION:

Formation: **LKC B-C**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 08:08:54
Time Test Ended: 11:50:24
Test Type: Conventional Bottom Hole
Tester: Kylie Kinderknecht
Unit No: 31
Interval: **3812.00 ft (KB) To 3852.00 ft (KB) (TVD)**
Reference Elevations: 2513.00 ft (KB)
Total Depth: 3852.00 ft (KB) (TVD) 2504.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8319 Inside
Press@RunDepth: 104.37 psig @ 3814.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.11.13 End Date: 2008.11.13 Last Calib.: 2008.11.13
Start Time: 02:33:54 End Time: 11:50:24 Time On Btm: 2008.11.13 @ 06:05:24
Time Off Btm: 2008.11.13 @ 09:14:54

TEST COMMENT: F 2 1/4"
FF 1"



PRESSURE SUMMARY

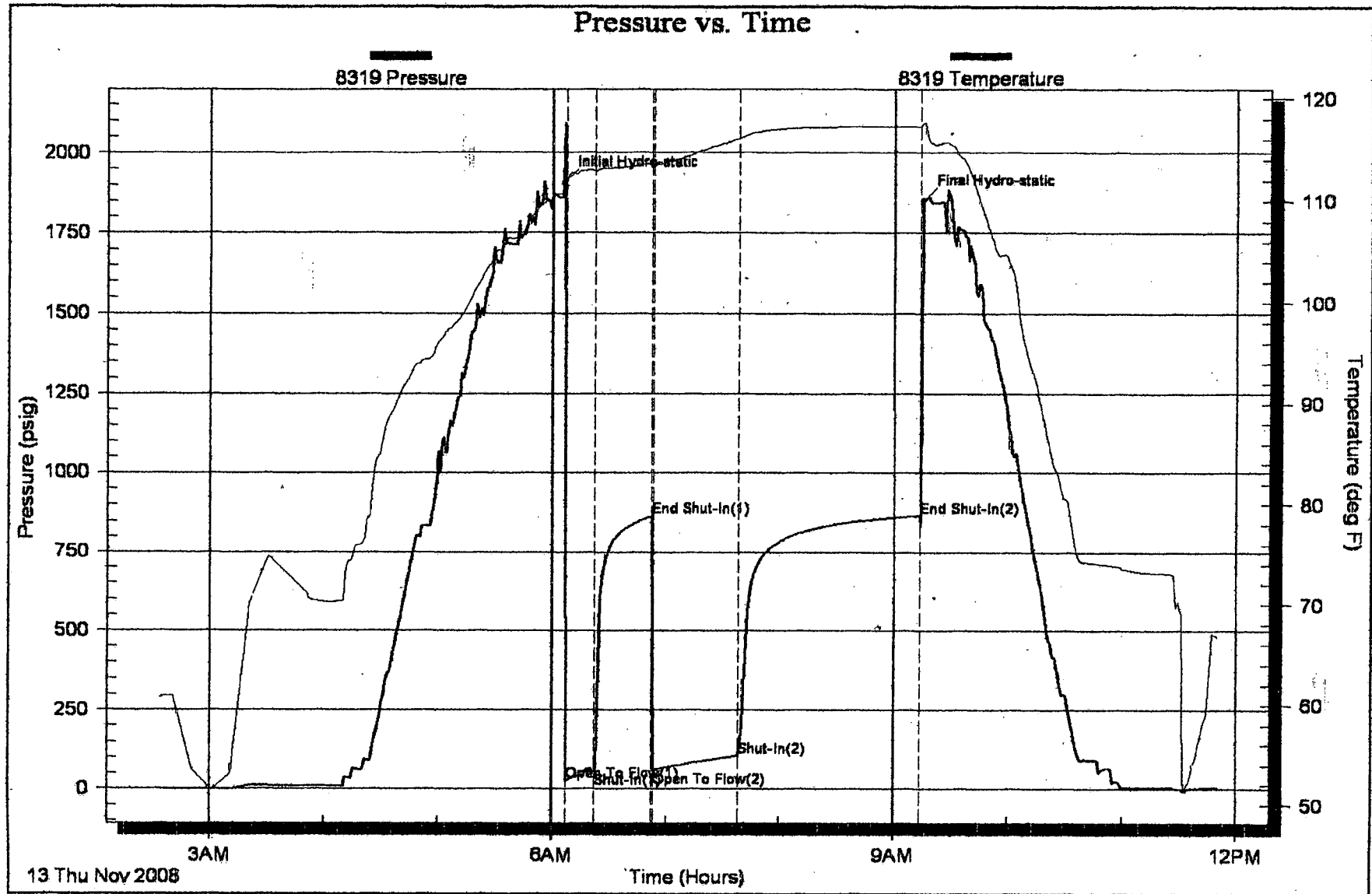
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.63	110.66	Initial Hydro-static
2	25.27	111.80	Open To Flow (1)
17	55.84	112.94	Shut-In (1)
47	863.19	113.67	End Shut-In (1)
48	58.27	113.48	Open To Flow (2)
93	104.37	116.08	Shut-In (2)
188	865.01	117.29	End Shut-In (2)
190	1850.04	117.57	Final Hydro-static

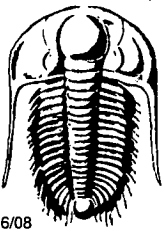
Recovery

Length (ft)	Description	Volume (bbl)
90.00	MCW	0.44
95.00	SitOCM 1%O 99%M	0.47
10.00	Clean Oil	0.05

Gas Rates

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





TRILOBITE TESTING INC.

33543

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Knoll North Unit D-2 Test No. 2 Date 11-14-08
 Company Berexco Zone Tested LKC F¹¹
 Address _____ Elevation 2513 KB 2504 GL _____
 Co. Rep / Geo. Brian Byncg Rig Beredco #10
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Graham State KS
 Comment: Waited 2 hrs for them to drain up Rig

Interval Tested 3850 - 3880 Drill Pipe Size 4"
 Anchor Length 30 Wt. Pipe Run _____
 Top Packer Depth 3845 Drill Collar Run 215
 Bottom Packer Depth 3850 Ft. Run 3636
 Total Depth 3880 Recorder #(s) 8319, 8369
 Blow Description IF - 1 1/2"
FF - 1"

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>60</u>	Feet of <u>WCM</u>	%gas _____ %oil _____	<u>15</u> %water <u>85</u> %mud
Rec. <u>60</u>	Feet of <u>SHOCM</u>	%gas <u>3</u> %oil _____	%water <u>97</u> %mud
Rec. <u>9</u>	Feet of <u>Clean Oil</u>	%gas _____ %oil _____	%water _____ %mud
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud

BHT 115 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .34 @ 35 °F Chlorides 45000 ppm Recovery _____ Chlorides 1800 ppm System

IF <u>15</u>	<input checked="" type="checkbox"/> Test	<input type="checkbox"/> Sampler	<input type="checkbox"/> Day Standby
ISI <u>30</u>	<input checked="" type="checkbox"/> Jars	<input type="checkbox"/> Straddle	<input type="checkbox"/> Accessibility
FF <u>45</u>	<input checked="" type="checkbox"/> Safety Joint	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
FSI <u>90</u>	<input type="checkbox"/> Circ Sub	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
T-on Loc <u>16:00</u>	<input checked="" type="checkbox"/> Hourly Standby	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
T-started <u>19:00</u>	<input checked="" type="checkbox"/> Mileage	<input type="checkbox"/> Other _____	
T-open <u>21:42</u>			
T-pulled <u>00:42</u>	Sub Total _____	Sub Total _____	Sub Total _____
T-out <u>3:30</u>			Total _____

Trilobite Testing, Inc. shall not be liable for damage of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Approved By [Signature] Our Representative Kyle K.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco Inc.
 PO Box 20380
 Wichita, KS 60208
 ATTN: Brian Bynog

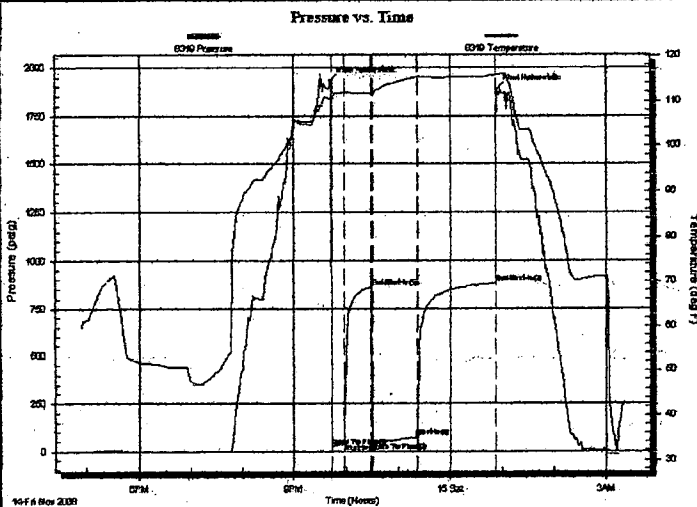
Knoll North unit D-2
32-8-25 Graham KS
 Job Ticket: 33543 **DST#: 2**
 Test Start: 2008.11.14 @ 16:54:08

GENERAL INFORMATION:

Formation: **LKC "F"**
 Deviated: No Whipstock ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 21:43:38 Tester: Kyle Kinderknecht
 Time Test Ended: 03:21:38 Unit No: 31
 Interval: **3850.00 ft (KB) To 3880.00 ft (KB) (TVD)** Reference Elevations: 2513.00 ft (KB)
 Total Depth: 3880.00 ft (KB) (TVD) 2504.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8319 **Inside**
 Press@RunDepth: 74.31 psig @ 3852.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.11.14 End Date: 2008.11.15 Last Calib.: 2008.11.15
 Start Time: 16:54:08 End Time: 03:21:38 Time On Btm: 2008.11.14 @ 21:42:08
 Time Off Btm: 2008.11.15 @ 00:52:38

TEST COMMENT: F 1 1/2"
 FF 1"



PRESSURE SUMMARY

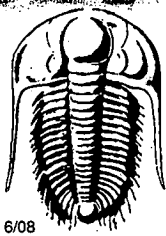
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1929.45	110.60	Initial Hydro-static
2	24.62	110.11	Open To Flow (1)
16	38.22	111.67	Shut-In (1)
46	862.60	111.71	End Shut-In (1)
47	44.86	111.48	Open To Flow (2)
99	74.31	115.45	Shut-In (2)
190	881.18	115.64	End Shut-In (2)
191	1888.53	115.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	WCM 15%W 85%M	0.30
60.00	SitOCM 3%O 97%M	0.30
5.00	Clean Oil	0.02

Gas Rates

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Kno 11 North Unit D-2 Test No. 3 Date 11-15-08
 Company Bevexco Inc. Zone Tested LKC #14
 Address _____ Elevation 2513 KB 2504 GL _____
 Co. Rep / Geo. Trigu Bynog Rig Bevexco #10
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Graham State KS
 Comment: _____

Interval Tested 3900-3930 Drill Pipe Size 4"
 Anchor Length 30' Wt. Pipe Run _____
 Top Packer Depth 3895 Drill Collar Run 215
 Bottom Packer Depth 3900 Ft. Run 3668
 Total Depth 3930 Recorder #(s) 8319, 4369

Blow Description IF - BOB 2 1/2 min
1st - Strong BOB
FF - BOB 3 min
1st Strong BOB

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>660</u>	Feet of <u>G940.1</u>						
Rec. _____	Feet of <u>Reversed Out</u>						
Rec. _____	Feet of _____						
Rec. <u>2500</u>	Feet of <u>GTP</u>						
Rec. _____	Feet of _____						

BHT. 121 °F Gravity 40 °API D @ 50 °F Corrected Gravity 41 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2000 ppm System

IF <u>19</u>	<input checked="" type="checkbox"/> Test	<input type="checkbox"/> Sampler	<input type="checkbox"/> Day Standby
ISI <u>30</u>	<input checked="" type="checkbox"/> Jars	<input type="checkbox"/> Straddle	<input type="checkbox"/> Accessibility
FF <u>45</u>	<input checked="" type="checkbox"/> Safety Joint	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
FSI <u>60</u>	<input checked="" type="checkbox"/> Circ Sub	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
T-on Loc <u>14:19</u>	<input type="checkbox"/> Hourly Standby	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
T-started <u>14:30</u>	<input checked="" type="checkbox"/> Mileage	<input type="checkbox"/> Other	
T-open <u>16:50</u>			
T-pulled <u>19:20</u>	Sub Total _____	Sub Total _____	Sub Total _____
T-out <u>23:15</u>			Total _____

Trilobite Testing, Inc. shall not be liable for damage of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test; tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Approved By [Signature] Our Representative Kyle K.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco Inc.
PO Box 20380
Wichita, KS 60208
ATTN: Brian Bynog

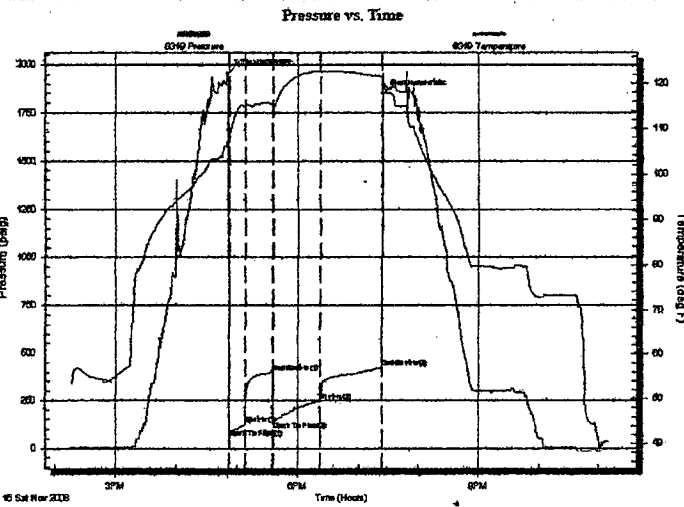
Knoll North unit D-2
32-8-25 Graham KS
Job Ticket: 33544 **DST#: 3**
Test Start: 2008.11.15 @ 14:16:49

GENERAL INFORMATION:

Formation: **LKC "H"**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 16:51:19
Time Test Ended: 23:10:49
Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 31
Interval: **3900.00 ft (KB) To 3930.00 ft (KB) (TVD)**
Reference Elevations: 2513.00 ft (KB)
Total Depth: 3930.00 ft (KB) (TVD) 2504.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8319 Inside
Press@RunDepth: 245.84 psig @ 3902.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2008.11.15 End Date: 2008.11.15 Last Callb.: 2008.11.15
Start Time: 14:16:49 End Time: 23:10:49 Time On Btrt: 2008.11.15 @ 16:49:49
Time Off Btrt: 2008.11.15 @ 19:23:49

TEST COMMENT: IF BOB 2 1/2 min
ISI Strong BOB
FF BOB 3 min
FSI Strong BOB



PRESSURE SUMMARY

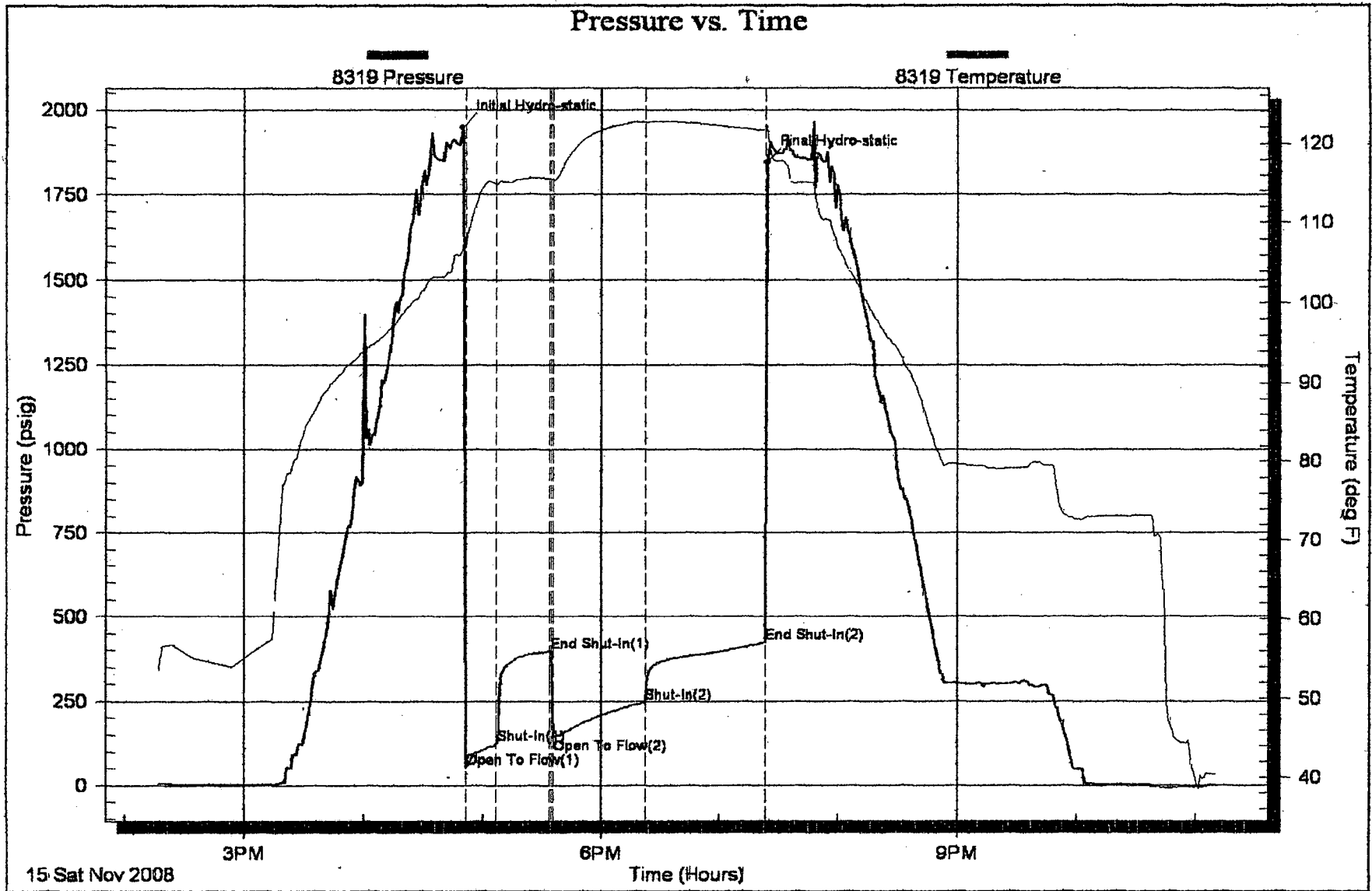
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.91	106.99	Initial Hydro-static
2	53.03	106.94	Open To Flow (1)
18	125.46	114.79	Shut-in (1)
45	397.42	115.54	End Shut-in (1)
46	143.18	115.38	Open To Flow (2)
92	245.84	122.61	Shut-in (2)
154	423.65	121.59	End Shut-in (2)
154	1847.27	122.20	Final Hydro-static

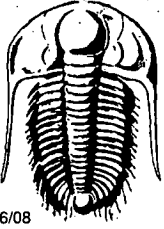
Recovery

Length (ft)	Description	Volume (bbl)
660.00	Gsy Free Oil Reversed Out	5.88
0.00	GIP 2500'	0.00

Gas Rates

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





TRILOBITE TESTING INC.

33545

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Knoll North Unit D-2 Test No. 4 Date 11-16-09
 Company Devexco Inc. Zone Tested LKC "I-J"
 Address _____ Elevation 2513 KB 2504 GL _____
 Co. Rep / Geo. Brian Pynog Rig Devexco #10
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Graham State KS
 Comment: _____

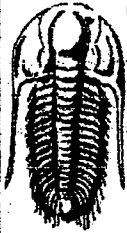
Interval Tested 3936 - 3976 Drill Pipe Size 4 1/2
 Anchor Length 40' Wt. Pipe Run _____
 Top Packer Depth 3931 Drill Collar Run 215
 Bottom Packer Depth 3936 Ft. Run 3700
 Total Depth 3976 Recorder #(s) 8319, 8369
 Blow Description IF - BOB 12 min
FF - BOB 37 min

Recovery - Total Feet 180 GIP 630 Ft. in DC _____ Ft. in DP _____
 Rec. 180 Feet of H/MCO %gas 60 %oil _____ %water 40 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 114 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2000 ppm System

IF <u>15</u>	<input checked="" type="checkbox"/> Test	<input type="checkbox"/> Sampler	<input type="checkbox"/> Day Standby
ISI <u>30</u>	<input checked="" type="checkbox"/> Jars	<input type="checkbox"/> Straddle	<input type="checkbox"/> Accessibility
FF <u>60</u>	<input checked="" type="checkbox"/> Safety Joint	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
FSI <u>90</u>	<input type="checkbox"/> Circ Sub	<input type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Ruined Packer
T-on Loc <u>12:30</u>	<input type="checkbox"/> Hourly Standby	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
T-started <u>13:45</u>	<input checked="" type="checkbox"/> Mileage	<input type="checkbox"/> Other	
T-open <u>15:50</u>			
T-pulled <u>19:05</u>	Sub Total _____	Sub Total _____	Sub Total _____
T-out <u>21:30</u>			Total _____

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Approved By [Signature] Our Representative Kyle K.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco Inc.

Knoll North unit D-2

PO Box 20380
Wichita, KS 60208

32-8-25 Graham KS

Job Ticket: 33545 **DST#: 4**

ATTN: Brian Bynog

Test Start: 2008.11.16 @ 13:19:40

GENERAL INFORMATION:

Formation: **LKC-T-J**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 15:50:10

Time Test Ended: 21:25:10

Test Type: Conventional Bottom Hole

Tester: Kyle Kinderknecht

Unit No: 31

Interval: **3936.00 ft (KB) To 3976.00 ft (KB) (TVD)**

Reference Elevations: 2513.00 ft (KB)

Total Depth: 3976.00 ft (KB) (TVD)

2504.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8319

Inside

Press@RunDepth: 82.51 psig @ 3938.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.11.16

End Date:

2008.11.16

Last Calib.: 2008.11.16

Start Time: 13:19:40

End Time:

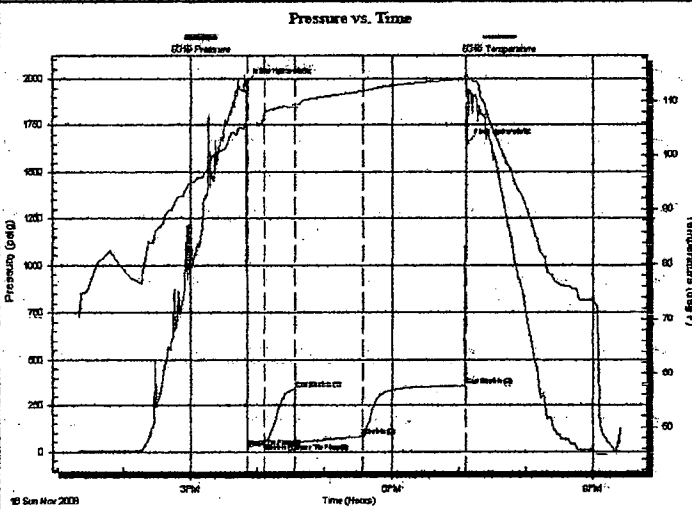
21:25:10

Time On Btm: 2008.11.16 @ 15:49:40

Time Off Btm: 2008.11.16 @ 19:07:10

TEST COMMENT: IF BOB 12 min

FF BOB 37 min.



PRESSURE SUMMARY

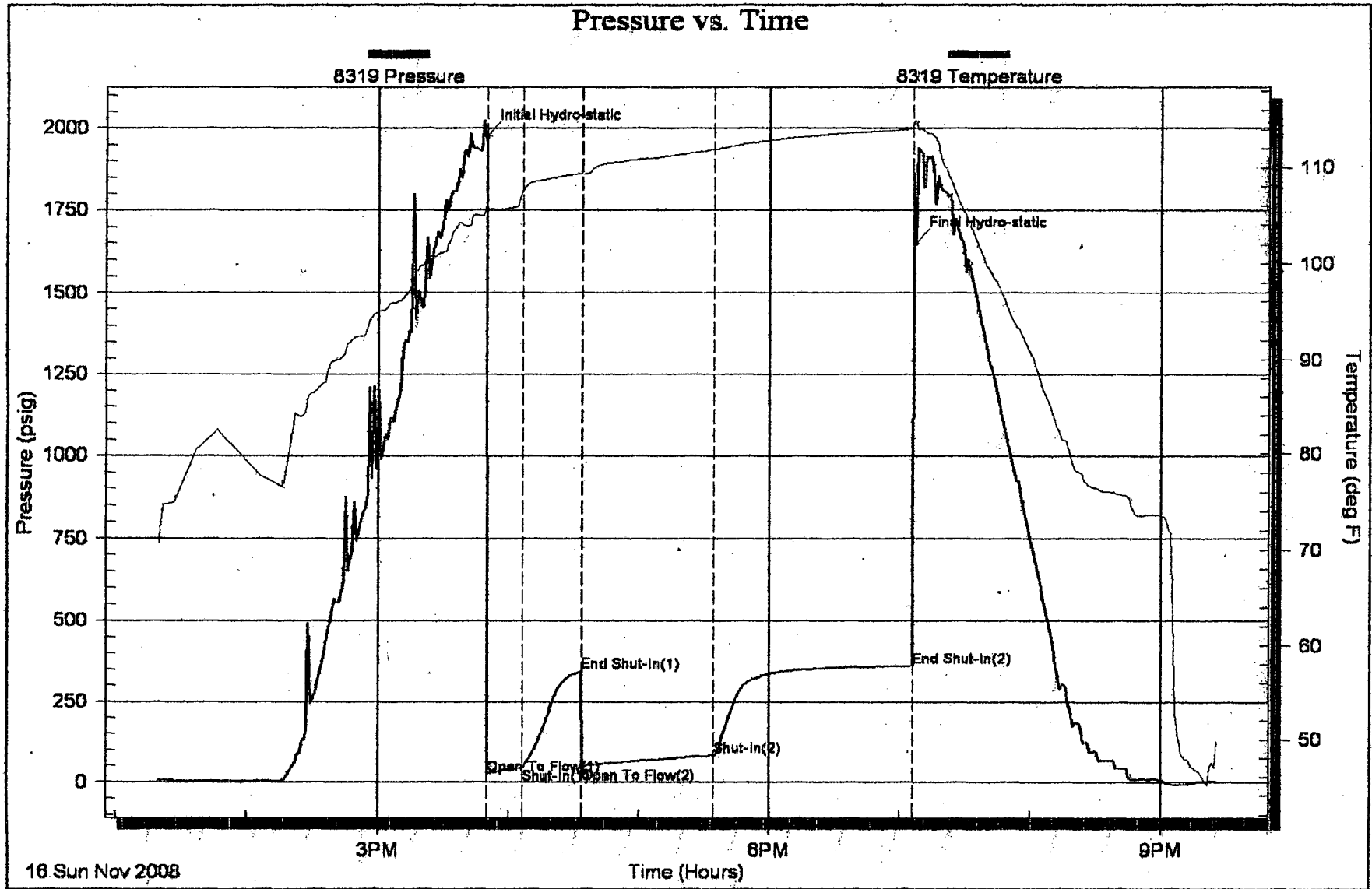
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.31	105.95	Initial Hydro-static
1	24.72	105.60	Open To Flow (1)
17	43.94	107.65	Shut-in (1)
44	342.06	109.39	End Shut-in (1)
44	45.82	109.30	Open To Flow (2)
105	82.51	111.91	Shut-in (2)
196	359.37	114.05	End Shut-in (2)
198	1651.38	114.90	Final Hydro-static

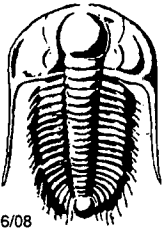
Recovery

Length (ft)	Description	Volume (bbl)
180.00	HMCO 60%O 40%M	0.89
0.00	630' GP	0.00

Gas Rates

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





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

Well Name & No. Risoll North Unit D-2 Test No. 5 Date 11-17-08
 Company Berexco Zone Tested LKC "K-L"
 Address _____ Elevation 2913 KB 2504 GL _____
 Co. Rep / Geo. Bryan Byhog Rig Berexco #10
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Graham State KS
 Comment: Packer failure

Interval Tested 3980 - 4029 Drill Pipe Size 4"
 Anchor Length 45" Wt. Pipe Run _____
 Top Packer Depth 3979 Drill Collar Run 215
 Bottom Packer Depth 3980 Ft. Run 3758
 Total Depth 4029 Recorder #(s) 8319, 8369
 Blow Description IF - 1/2" Initial lost 20' mud but 3" Pickers give 10m in in

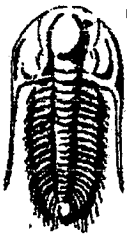
Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>1500</u>	Feet of <u>Mud</u>	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet of _____	%gas _____ %oil _____	%water _____ %mud _____

BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 1200 ppm System

IF _____	<input checked="" type="checkbox"/> Test <u>M.G-run</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Day Standby _____
ISI _____	<input checked="" type="checkbox"/> Jars _____	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Accessibility _____
FF _____	<input checked="" type="checkbox"/> Safety Joint _____	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
FSI _____	<input checked="" type="checkbox"/> Circ Sub <u>Drained Mud</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
T-on Loc <u>9:20</u>	<input type="checkbox"/> Hourly Standby _____	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
T-started <u>9:45</u>	<input checked="" type="checkbox"/> Mileage _____	<input type="checkbox"/> Other _____	
T-open <u>11:38</u>			
T-pulled <u>12:05</u>	Sub Total _____	Sub Total _____	Sub Total _____
T-out <u>12:00</u>			Total _____

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Approved By [Signature] Our Representative Kyle K.



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco Inc.
 PO Box 20380
 Wichita, KS 60208
 ATTN: Brian Bynog

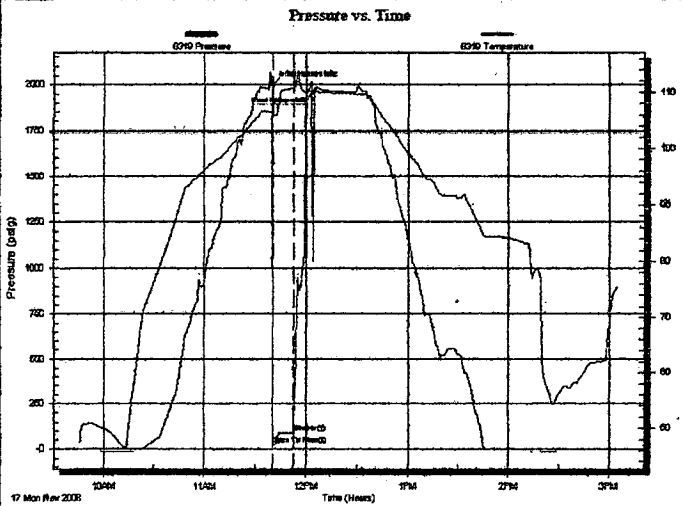
Knoll North unit D-2
32-8-25 Graham KS
 Job Ticket: 33546 **DST#: 5**
 Test Start: 2008.11.17 @ 09:46:03

GENERAL INFORMATION:

Formation: **LKC "K-L"**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 11:40:03
 Time Test Ended: 15:05:03
 Test Type: Conventional Bottom Hole
 Tester: Kyle Kinderknecht
 Unit No: 31
 Interval: **3980.00 ft (KB) To 4025.00 ft (KB) (TVD)**
 Reference Elevations: 2513.00 ft (KB)
 Total Depth: 4025.00 ft (KB) (TVD) 2504.00 ft (CF)
 Hole Diameter: 7.88 Inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8319 Inside
 Press@RunDepth: psig @ 3984.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2008.11.17 End Date: 2008.11.17 Last Calib.: 2008.11.17
 Start Time: 09:46:03 End Time: 15:05:03 Time On Btrr: 2008.11.17 @ 11:39:33
 Time Off Btrr: 2008.11.17 @ 12:05:03

TEST COMMENT: MIS-RUN PACKER FAILURE



PRESSURE SUMMARY

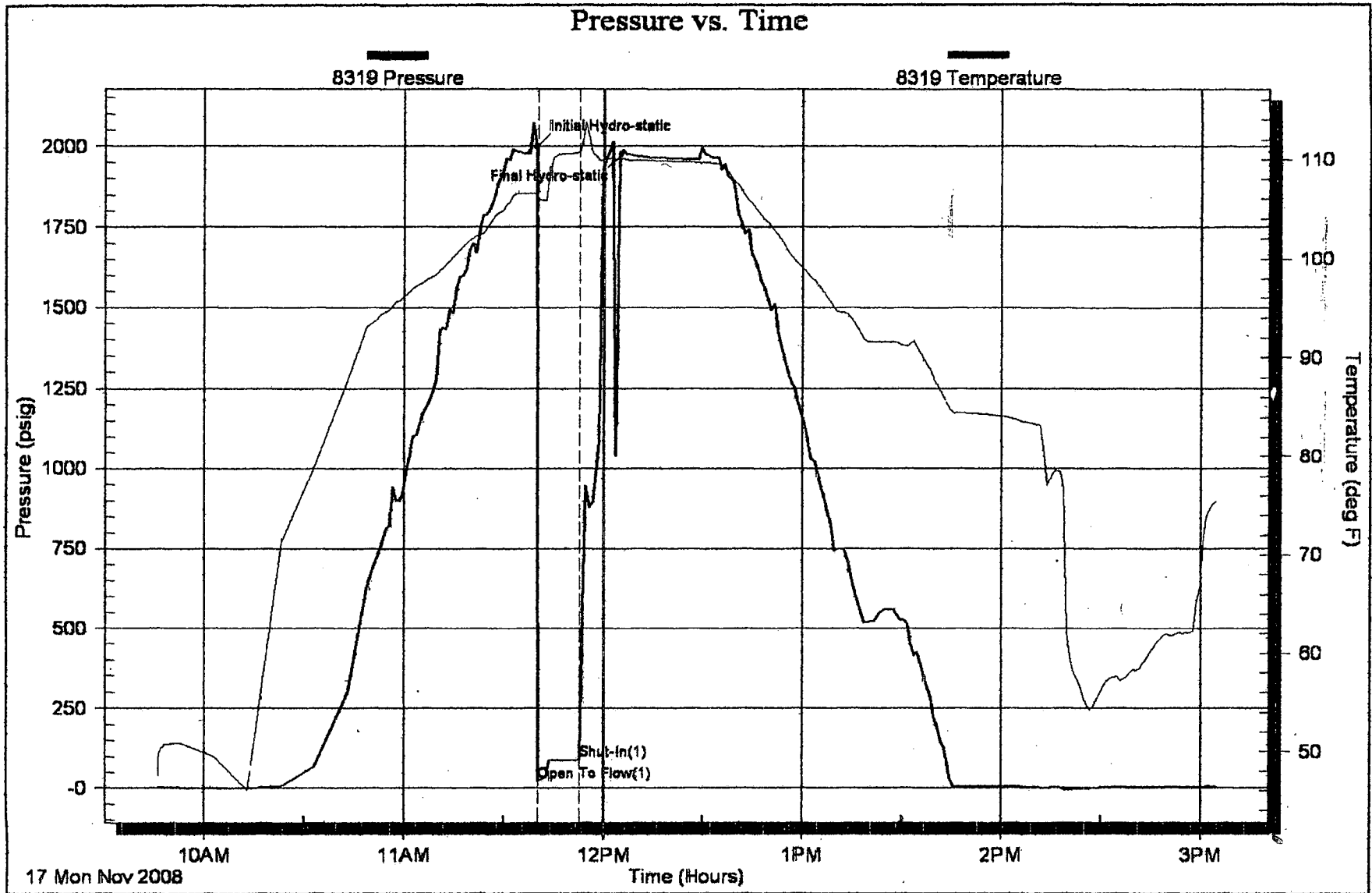
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.12	106.52	Initial Hydro-static
1	23.96	106.01	Open To Flow (1)
13	89.86	110.75	Shut-in (1)
26	1975.77	110.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1500.00	MUD	14.98

Gas Rates

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



LITHOLOGY

3700-58 Limestone buff, firm, fossiliferous, poor porosity

HEEBNER

3758-62 Shale black, firm, carbonaceous

3762-83 Shale red, green, firm

TORONTO

3783-90 Limestone tan, buff, firm, microcrystalline, dense

3790-3800 Shale red, firm, waxy

LANSING

3800-20 Limestone cream, very hard, dense

3820-30 Shale as above

B Zone

3830-35 Limestone cream, firm, oolitic, abundant pyrite, poor to fair porosity, spotty stain, good cut & odor, show free oil

3835-40 Shale red, soft

C/D Zone

3840-60 Limestone pale gray, very hard, and dense

3860-70 Shale gray, green, firm

F Zone

3870-80 Limestone white, firm, oolitic, sandy in part, chalky, fair to good intergranular & vuggy porosity, spotty to even stain, good cut & odor, show free oil

3880-3900 Limestone cream, very hard, dense

3900-10 Limestone gray, hard, chalky, poor porosity, very spotty stain; poor cut

3910-20 Shale gray, black, firm, carbonaceous

H Zone

3920-30 Limestone buff, firm, oolitic, chalky, poor to fair porosity, spotty to even stain, good cut & odor, good show free oil

3930-55 Limestone gray, off white, very hard, chalky, dense, abundant Chert white

3955-62 Shale red, soft

J Zone

3962-70 Limestone white, firm, microsucrosic, fossiliferous, poor to fair intercrystalline & vuggy porosity, spotty to even stain, good cut & odor, show free oil

3970-80 Limestone cream, very hard, chalky, poor pin point porosity, spotty stain, poor cut

3980-85 Shale as above

K Zone

3985-95 Limestone off white, hard, microcrystalline, poor pin point vuggy porosity, spotty stain, poor cut

3995-4000 Limestone cream, very hard, dense

4000-10 Shale as above

4010-20 Limestone cream, hard, dense, chalky

4020-54 Shale gray, green, red, soft

4054-70 Limestone cream, hard, dense

4070-85 Shale as above



DRILLING MUD REPORT

REPORT NO. **3**

DATE **11-10-08** DEPTH **2918**

APT WELL NO.	STATE	COUNTY	WELL	ST

OPERATOR Berexco Inc.	CONTRACTOR Beredco	RIG NO. 10
ADDRESS CO	ADDRESS Rio	SPUD DATE 11-6-08
REPORT FOR MR. Bryan B.	REPORT FOR MR. Marvin	SECTION, TOWNSHIP, RANGE 32-8-25
WELL NAME AND NO. Knoll North Unit # D-2	FIELD OR BLOCK NO.	COUNTY AREA Graham
		STATE Ks

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data				
Bit Size 7 7/8"	No. Bits 2	Jet Size 3/14	Surface 8 5/8 @ 288'	Hole 233	Pits 340	Pump Size x in. 6 14	Annular Vel (Ft/Min) DP 197 DC 356				
Drill Pipe Size 4 1/2"	Type xh	Length	Intermediate @	Ft.	Total Circulating Volume 573	Pump Make, Model	Assumed Eff. 70	Circulation Pressure (PSI)	800+		
Drill Collar Size 6 1/4"	Length	No. Pits 3	Production or Liner @	Ft.	Mud Up Depth 2880	Bbl/Stroke 139	Stroke/Min. 60	Bottoms Up (Min.)	30+		
Bit RPM 60	Weight on Bit 30,000	Mud Type chemical		Bbl/Min. 8	Gal/Min. 336	Total Circ Time (Min.)	72+				
Last Bit No.	Present Activity Drilg.	Mud Type pac		Elevation 2504							

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	1:30 P.M.		
Depth (ft.)	2918		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	8.7 ✓		
Mud Gradient (psi/ft.)	.453		
Funnel Viscosity (sec./qt.) API at °F	55 ✓		
Plastic Viscosity cp at / °F	21		
Yield Point (lb./100 sq. ft.)	12		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	3.22		
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	11.5		
Filtrate API (ml/30 min.)	8.0 ✓		
API HP-HT Filtrate (ml/30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	1/32		
Alkalinity, Mud (Pm)	2.8		
Alkalinity, Filtrate (Pf / Mf)	1.4		
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg	1,000 ✓		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	20		
Sand Content (% by Vol.)	+		
Solids Content (% by Vol.)	2.7		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	97.3		
LCM, #/bbl	3/4#		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent.)			

Mud Used:	10-Hulls	209.50
Daily Cost	\$ 209.50	Cumulative Cost \$ 5,990.55
MUD PROPERTIES SPECIFICATIONS		
WEIGHT 9.5-	VISCOSITY 50+	FILTRATE 10cc
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
RECOMMENDED TREATMENT		
<input type="checkbox"/> 50+ Vis / Gel		
<input type="checkbox"/>		
<input type="checkbox"/> Lcm as needed		
<input type="checkbox"/>		
<input type="checkbox"/> Wt. 9.5 or less min @ 1/2"		
<input type="checkbox"/> Stream of water at		
<input type="checkbox"/> flowline to control wt.		

REMARKS:
 "Thank you" (Jet hole in system add premix at 3300' f)
 Short trip prior to DST, Log circulate hole clean. (Keep 50+ Vis)
 "Keep hole full" (with Gel.)

ANDY'S "Mud Doctor"

MUD & CHEMICAL CO.

(785) 625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT REPORT NO. 4

DATE 11-11-08 DEPTH 3409

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR Berexco Inc. CONTRACTOR Berexco RIG NO. 10

ADDRESS CO ADDRESS Rig SPUD DATE 11-6-08

REPORT FOR MR. Bryan B. REPORT FOR MR. Martin SECTION, TOWNSHIP, RANGE 32-8-25

WELL NAME AND NO. Knoll North Unit D-2 FIELD OR BLOCK NO. 2 COUNTY/AREA Graham STATE KS

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>7 7/8"</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>859'</u>	Fl. <u>288'</u>	Hole Size <u>26 1/2"</u>	Pipe <u>340'</u>	Pump Size x in. <u>14</u>	Annular Vel (Ft/Min) DP <u>197</u>	<u>356</u>
Drill Pipe Size <u>4 1/2</u>	Type <u>XH</u>	Length	Intermediate @	Fl.	Total Circulating Volume <u>604</u>		Pump Make, Model	Assumed Eff. <u>90</u>	Circulation Pressure (PSI) <u>800+</u>
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production or Liner @	Fl.	Mud Up Depth <u>2880</u>		Bbl/Stroke <u>1.77</u>	Stroke/Min. <u>6</u>	Bottoms Up (Min.) <u>33F</u>
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity <u>Drilling</u>	Mud Type <u>Chemical Pac</u>		Bbl/Min. <u>8</u>	Gal/Min. <u>336</u>	Elevation <u>2504</u>	Total Circ Time (Min.) <u>76+</u>	

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	<u>12:30 P.M.</u>		
Depth (ft.)	<u>3409</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>8.9</u>		<input checked="" type="checkbox"/>
Mud Gradient (psi/ft.)	<u>4.63</u>		
Funnel Viscosity (sec./qt.) API at °F	<u>60</u>		<input checked="" type="checkbox"/>
Plastic Viscosity cp at / °F	<u>24</u>		
Yield Point (lb./100 sq. ft.)	<u>13</u>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>4132</u>	<u>1</u>	<u>1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>11.3</u>		
Filtrate API (ml./30 min.)	<u>8.8</u>		<input checked="" type="checkbox"/>
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>1/32</u>		
Alkalinity, Mud (Pm)	<u>2.7</u>		
Alkalinity, Filtrate (Pi / Mf)	<u>1.0</u>	<u>1</u>	<u>1</u>
Salt <input type="checkbox"/> ppm Chloride <input type="checkbox"/> ppm	<u>1,800</u>		<input checked="" type="checkbox"/>
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>20</u>		
Sand Content (% by Vol.)	<u>tr.</u>		
Solids Content (% by Vol.)	<u>4.1</u>		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	<u>95.9</u>		
LCM, #/bbl	<u>1 1/2</u>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)			

Mud Used:		
<u>15-Gel</u>		<u>240.00</u>
<u>3-Soda ash</u>		<u>74.85</u>
<u>2-Carstic</u>		<u>120.00</u>
<u>1-Lignite</u>		<u>26.00</u>
<u>1-Drispac</u>		<u>330.00</u>
<u>3-Hulls</u>		<u>62.85</u>

Daily Cost	<u>\$853.70</u>	Cumulative Cost	<u>\$6844.25</u>
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MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.5-</u>	VISCOSITY <u>50+</u>	FILTRATE <u>10cc</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

- RECOMMENDED TREATMENT:
- 50+ Vis/Wel
 - Lcm 95 needed
 - Wt 9.5 or less r/w a 1/2
 - Stream of water at flowline
 - to control wt.

REMARKS: Thank you (If Vis. is below 46)

Short trip prior to DST, Log Suck up 80 bbls
Circulate hole clean. Pit mud.

Keep hole full Mix - 60+ Vis/Wel
2-Soda ash
1-Carstic
1/4-Sack of Pac
4-Hulls

fr. d. m. d. 1) Jet's add premix if
needed for vis or volume

ANDY'S "Mud Doctor"

MUD & CHEMICAL CO.

(785) 625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 5

DATE <u>11-12</u> 20 <u>08</u>	DEPTH <u>3802</u>			
APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>Berexco Inc.</u>	CONTRACTOR <u>Berexco</u>	RIG NO. <u>10</u>
ADDRESS <u>CO</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>11-6-08</u>
REPORT FOR MR. <u>Bryan B.</u>	REPORT FOR MR. <u>Marvin</u>	SECTION, TOWNSHIP, RANGE <u>32-8-25</u>
WELL NAME AND NO. <u>Knoll North Unit # D-2</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Graham</u>
		STATE <u>KS</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data		
Bit Size <u>7 7/8"</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8 5/8" @ 288 Ft.</u>	Hole <u>289 @ 1340 Ft.</u>	Total Circulating Volume <u>629</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (Ft/Min) DP <u>197</u> DC <u>356</u>		
Drill Pipe Size <u>4 1/2</u>	Type <u>XN</u>	Length	Intermediate <u>@</u>	Ft.		Pump Make, Model	Assumed <u>ED</u>	Circulation Pressure (PSI) <u>800+</u>	
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production or Liner <u>@</u>	Ft.	Mud Up Depth <u>2880</u>	Bbl/Stroke <u>1.39</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>36+</u>	
Bit RPM <u>60</u>	Weight on Bit <u>20,000</u>	Present Activity <u>Drls</u>	Mud Type <u>Chemical Pac</u>		Bbl/Min. <u>8</u>	Gal/Min. <u>3%</u>	Elevation <u>2504</u>	Total Circ Time (Min.) <u>79+</u>	

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	<u>10:32 A.M.</u>		
Depth (ft.)	<u>3802</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.0</u> ✓		
Mud Gradient (psi/ft.)	<u>.468</u>		
Funnel Viscosity (sec./qt.) API at °F	<u>54</u> ✓		
Plastic Viscosity cp at °F	<u>22</u>		
Yield Point (lb./100 sq. ft.)	<u>13</u>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>3.18</u>		
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>10.0</u>		
Filtrate API (ml./30 min.)	<u>8.0</u> ✓		
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>1/32</u>		
Alkalinity, Mud (Pm)	<u>1.0</u>		
Alkalinity, Filtrate (Pf / Mf)	<u>.45</u>		
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>1,000</u> ✓		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>.40</u>		
Sand Content (% by Vol.)	<u>+</u>		
Solids Content (% by Vol.)	<u>4.8</u>		
Oil Content (% by Vol.)	<u>—</u>		
Water Content (% by Vol.)	<u>75.2</u>		
LCM, #/bbl	<u>1.2</u>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)			

Mud Used:		
<u>15-Gel</u>		<u>240.00</u>
<u>4-Constit</u>		<u>240.00</u>
<u>2-Lignite</u>		<u>52.00</u>
<u>8-Hulls</u>		<u>167.60</u>
<u>2-Sand ash</u>		<u>49.90</u>
Daily Cost	<u>\$ 749.50</u>	Cumulative Cost <u>\$ 7593.75</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.5-</u>	VISCOSITY <u>50+</u>	FILTRATE <u>10cc</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		
<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

- RECOMMENDED TREATMENT**
- 50+ U.S./bbl
 - LCM as needed
 - wt 9.5 or less max 1/2"
 - stream of water at
 - flowline to control wt.

REMARKS:

"Thank you"

short trip prior to DST, log circulate hole clean.

"Keep hole full"

Jet hole in system

add premix at 3950' ft

or add early if needed for U.S.

(Keep 50+ U.S.)



DATE 11-14 2008 DEPTH 3880

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>Berexco Inc.</u>	CONTRACTOR <u>Berexco</u>	RIG NO. <u>10</u>
ADDRESS <u>CO</u>	ADDRESS <u>R. 9</u>	SPUD DATE <u>11-6-08</u>
REPORT FOR MR. <u>Bryan B.</u>	REPORT FOR MR. <u>Marvin</u>	SECTION, TOWNSHIP, RANGE <u>32-8-25</u>
WELL NAME AND NO. <u>Knoll North unit D-2</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Graham</u>
		STATE <u>KS</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data			
Bit Size <u>7 7/8"</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8" P @ 2880 Ft.</u>	Hole <u>294"</u>	Pits <u>350</u>	Pump Size x in. <u>6 14</u>	Annular Vel (Ft/Min) DP <u>197</u> DC <u>356</u>			
Drill Pipe Size <u>4 1/2</u>	Type <u>X4</u>	Length	Intermediate @	Ft.	Total Circulating Volume <u>644</u>	Pump Make, Model	Assumed Eff. <u>90</u>	Circulation Pressure (PSI) <u>800K</u>		
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production or Liner @	Ft.	Mud Up Depth <u>2880</u>	Bbl/Stroke <u>.139</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>37K</u>		
Bit RPM <u>60</u>	Weight on Bit <u>30000</u>	Mud Type <u>Chemical Pak</u>		Bbl/Min. <u>8</u>	Gal/Min. <u>376</u>	Total Circ Time (Min.) <u>81+</u>				
Last Bit No.	Present Activity <u>D-19</u>			Elevation <u>2504</u>						

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken	<u>11:00 A.M.</u>		
Depth (ft.)	<u>3880</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.31</u>		
Mud Gradient (psi/ft.)	<u>.484</u>		
Funnel Viscosity (sec./qt.) API at °F	<u>56</u>		
Plastic Viscosity cp at / °F	<u>23</u>		
Yield Point (lb./100 sq. ft.)	<u>15</u>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>428</u>	<u>1</u>	<u>1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>11.7</u>		
Filtrate API (ml./30 min.)	<u>7.9</u>		
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>1/32</u>		
Alkalinity, Mud (Pm)	<u>2.8</u>		
Alkalinity, Filtrate (Pf / Mf)	<u>.8</u>	<u>1</u>	<u>1</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg	<u>1,800</u>		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>30</u>		
Sand Content (% by Vol.)	<u>tr.</u>		
Solids Content (% by Vol.)	<u>7.0</u>		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	<u>93.0</u>		
LCM, #/bbl	<u>1#</u>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)			

Mud Used:		
Daily Cost	<u>\$ 1,457.05</u>	
Cumulative Cost	<u>\$ 9,050.80</u>	
MUD PROPERTIES SPECIFICATIONS		
WEIGHT	<u>9.5</u>	VISCOSITY <u>50+</u>
		FILTRATE <u>1000</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		
<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
RECOMMENDED TREATMENT		
<input type="checkbox"/> <u>50+ Vis/Gel</u>		
<input type="checkbox"/>		
<input type="checkbox"/> <u>LCM as needed</u>		
<input type="checkbox"/>		
<input type="checkbox"/> <u>wt. 9.5 or less run a 1/2</u>		
<input type="checkbox"/> <u>stream of water at</u>		
<input type="checkbox"/> <u>flowline to control wt.</u>		

REMARKS:
 "Thank you"
 Short trip prior to DST, LOG
 Circulate hole clean "Keep 50+ Vis"
 "Keep hole full"
 Suck up pit mud
 add Gel as needed
 (Good Mud!)
 to keep 50+ Vis

ANDY'S "Mud Doctor"

MUD & CHEMICAL CO.

(785) 625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 8

DATE 11-15-2008 DEPTH 3930

APT WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>Berexco Inc.</u>	CONTRACTOR <u>Beredco</u>	RIG NO. <u>10</u>
ADDRESS <u>CO</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>11-6-08</u>
REPORT FOR MR. <u>Bryan B.</u>	REPORT FOR MR. <u>Marvin</u>	SECTION, TOWNSHIP, RANGE <u>32-8-25</u>
WELL NAME AND NO. <u>Knoll North Unit #D-2</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Graham</u>
		STATE <u>KS</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data			
Bit Size <u>7 7/8"</u>	No. Bits <u>2</u>	Jet Size <u>3/16"</u>	Surface <u>8 7/8"</u>	Hole <u>2 9/16"</u>	Pits <u>340</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (Ft/Min) DP <u>197</u>	Annular Vel (Ft/Min) DC <u>356</u>		
Drill Pipe Size <u>4 1/2"</u>	Type <u>XH</u>	Length	Intermediate @	Ft.	Total Circulating Volume <u>637</u>	Pump Make, Model	Assumed Eff. <u>90</u>	Circulation Pressure (PSI) <u>800+</u>		
Drill Collar Size <u>6 1/4"</u>	Length	No. Pits <u>3</u>	Production or Liner @	Ft.	Mud Up Depth <u>2880</u>	Bbl/Stroke <u>1.39</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>38+</u>		
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Chemical		Bbl/Min. <u>8</u>	Gal/Min. <u>336</u>	Total Circ Time (Min.) <u>80+</u>				
Last Bit No.	Present Activity <u>Drilling</u>	Mud Type <u>Pac</u>		Elevation <u>2504</u>						

Sample from <input checked="" type="checkbox"/> Flowline () Pit		MUD PROPERTIES	
Flowing Temperature		F	
Time Sample Taken	<u>11:00 A.M.</u>		
Depth (ft.)	<u>3930</u>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.3+</u>	<input checked="" type="checkbox"/>	
Mud Gradient (psi/ft.)	<u>.484</u>		
Funnel Viscosity (sec./qt.) API at °F	<u>57</u>	<input checked="" type="checkbox"/>	
Plastic Viscosity cp at / °F	<u>24</u>		
Yield Point (lb./100 sq. ft.)	<u>19</u>		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>4187</u>	<u>1</u>	<u>1</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>11.5</u>		
Filtrate API (ml./30 min.)	<u>8.0</u>	<input checked="" type="checkbox"/>	
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>1/2</u>		
Alkalinity, Mud (Pm)	<u>2.4</u>		
Alkalinity, Filtrate (Pf / Mf)	<u>1.0</u>	<u>1</u>	<u>1</u>
Salt <input type="checkbox"/> ppm Chloride <input checked="" type="checkbox"/> ppm	<u>200</u>	<input checked="" type="checkbox"/>	
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>20</u>		
Sand Content (% by Vol.)	<u>1.0</u>		
Solids Content (% by Vol.)	<u>7.1</u>		
Oil Content (% by Vol.)			
Water Content (% by Vol.)	<u>92.9</u>		
LCM, #/bbl	<u>1#</u>		
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl. bent)			

Mud Used:	
Daily Cost	<u>-0-</u>
Cumulative Cost	<u>\$9050.80</u>
MUD PROPERTIES SPECIFICATIONS	
WEIGHT <u>9.5-</u>	VISCOSITY <u>504</u>
FILTRATE <u>10cc</u>	
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER
RECOMMENDED TREATMENT	
<input checked="" type="checkbox"/> <u>50+ vis / gal</u>	
<input type="checkbox"/>	
<input type="checkbox"/> <u>LCM as needed</u>	
<input type="checkbox"/>	
<input type="checkbox"/> <u>wt. 9.5 or less run on 1/2"</u>	
<input type="checkbox"/> <u>stream of water at</u>	
<input type="checkbox"/> <u>flowline to control wt.</u>	

REMARKS:

"Thank you" Keep 50+ vis for log.

Short trip prior to DST, Log If vis is low

Circulate hole clean. Shut up pit mud

"Keep hole full" MIX - 16-gal

(Good Mud!) 2-sds ash

1-caustic

1-lignite

14-sds of Pac

10-Hulls

ANDY'S "Mud Doctor"

MUD & CHEMICAL CO.

(785) 625-3531
HAYS, KANSAS 67601



DRILLING MUD REPORT

REPORT NO. 9

DATE 11-16 2008 DEPTH 3976

APT WELL NO.	STATE	COUNTY	WELL	ST

OPERATOR <u>Berexco Inc.</u>	CONTRACTOR <u>Beredco</u>	RIG NO. <u>10</u>
ADDRESS <u>CO</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>11-6-08</u>
REPORT FOR MR. <u>Bryan B.</u>	REPORT FOR MR. <u>Marvin</u>	SECTION, TOWNSHIP, RANGE <u>32-8-25</u>
WELL NAME AND NO. <u>Well North unit D-2</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Graham</u>
		STATE <u>KS</u>

Drilling Assembly			Casing	Mud Volume (BBL)		Circulation Data				
Bit Size <u>7 7/8"</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>8 1/8" 2880 Ft.</u>	Hole <u>300</u>	Pits <u>360</u>	Pump Size x in. <u>6 x 14</u>	Annular Vel (Ft/Min) <u>DP 197 DC 306</u>			
Drill Pipe Size <u>4 1/2"</u>	Type <u>XH</u>	Length	Intermediate <u>@</u>	Ft.	Total Circulating Volume <u>660</u>	Pump Make, Model	Assumed Eff. <u>90</u>	Circulation Pressure (PSI) <u>800+</u>		
Drill Collar Size <u>6 1/4"</u>	Length	No. Pits <u>3</u>	Production or Liner <u>@</u>	Ft.	Mud Up Depth <u>2880</u>	Bbl/Stroke <u>119</u>	Stroke/Min. <u>60</u>	Bottoms Up (Min.) <u>38+</u>		
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity <u>Circ.</u>	Mud Type <u>Chemical PAL</u>			Bbl/Min. <u>8</u>	Gal/Min. <u>376</u>	Total Circ Time (Min.) <u>83+</u>		
Last Bit No.						Elevation <u>2504</u>				

Sample from <input checked="" type="checkbox"/> Flowline () Pit	MUD PROPERTIES	
Flowing Temperature F		
Time Sample Taken	<u>10:50 A.M.</u>	
Depth (ft.)	<u>3976</u>	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>9.3</u>	<input checked="" type="checkbox"/>
Mud Gradient (psi/ft.)	<u>.484</u>	
Funnel Viscosity (sec./qt.) API at °F	<u>52</u>	<input checked="" type="checkbox"/>
Plastic Viscosity cp at / °F	<u>23</u>	
Yield Point (lb./100 sq. ft.)	<u>13</u>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>3/19</u>	<input type="checkbox"/> <input type="checkbox"/>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>10.4</u>	
Filtrate API (ml./30 min.)	<u>8.0</u>	<input checked="" type="checkbox"/>
API HP-HT Filtrate (ml/30 min.) °F		
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	<u>1/32</u>	
Alkalinity, Mud (Pm)	<u>1.0</u>	
Alkalinity, Filtrate (Pf / Mf)	<u>51</u>	<input type="checkbox"/> <input type="checkbox"/>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm	<u>1200</u>	<input checked="" type="checkbox"/>
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>40</u>	
Sand Content (% by Vol.)	<u>7.1</u>	
Solids Content (% by Vol.)	<u>6.9</u>	
Oil Content (% by Vol.)		
Water Content (% by Vol.)	<u>93.1</u>	
LCM, #/bbl	<u>3/4#</u>	
Methylene Blue Capacity <input type="checkbox"/> (mini mud) <input type="checkbox"/> (equiv. #/Bbl. bent)		

Mud Used:	
Daily Cost	<u>0</u>
Cumulative Cost	<u>89050.80</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>9.5-</u>	VISCOSITY <u>50+</u>	FILTRATE <u>10cc</u>
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

- RECOMMENDED TREATMENT**
- 50+ Vis/Gel
 -
 - LCM as needed
 -
 - wt. 9.5 or less run 1/2"
 - stream of water at flowline
 - to control wt.

REMARKS:
 "Thank you" → Keep 50+ Vis for log
 Short trip prior to DST, log if needed suck up Pit
 Circulate hole clean. Mud mix-18-gel
 2-soda ash
 1-caustic
 1/4-Sack of Pal
 8-Hulls
 "Keep hole full"
 Mix-2 Desco
 with cement add premix if needed
 for Vis.



DRILLING MUD REPORT

REPORT NO. 10

DATE 11-17 2008 DEPTH 4025

APT WELL NO.	STATE	COUNTY	WELL	ST

OPERATOR <u>Berexco Inc.</u>	CONTRACTOR <u>Beredco</u>	RIG NO. <u>10</u>
ADDRESS <u>CO</u>	ADDRESS <u>Rig</u>	SPUD DATE <u>11-6-08</u>
REPORT FOR MR. <u>Bryan B.</u>	REPORT FOR MR. <u>Marvin</u>	SECTION, TOWNSHIP, RANGE <u>32-8-25</u>
WELL NAME AND NO. <u>Knoll North Unit #D-2</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>Graham</u>
		STATE <u>KS</u>

Drilling Assembly			Casing		Mud Volume (BBL)		Circulation Data			
Bit Size <u>7 7/8"</u>	No. Bits <u>2</u>	Jet Size <u>3/14</u>	Surface <u>6 7/8" @ 288'</u>	Hole <u>303' @ 360'</u>	Pump Size <u>6 x 14</u>	Annular Vel (Ft/Min) DP <u>177</u> DC <u>356</u>				
Drill Pipe Size <u>4 1/2</u>	Type <u>xh</u>	Length	Intermediate <u>@</u>	Ft.	Total Circulating Volume <u>603</u>	Pump Make, Model	Assumed Eff <u>90</u>	Circulation Pressure (PSI) <u>800</u>		
Drill Collar Size <u>6 1/4</u>	Length	No. Pits <u>3</u>	Production or Liner <u>@</u>	Ft.	Mud Up Depth <u>2880</u>	Bbl/Stroke <u>1.34</u>	Stroke/Min <u>60</u>	Bottoms Up (Min.) <u>38+</u>		
Bit RPM <u>60</u>	Weight on Bit <u>30,000</u>	Present Activity <u>DST #5</u>	Mud Type <u>Chemical Pac</u>		Bbl/Min <u>8</u>	Gal/Min <u>376</u>	Total Circ Time (Min.) <u>83+</u>			
Last Bit No.					Elevation <u>2504</u>					

Sample from, <input type="checkbox"/> Flowline <input checked="" type="checkbox"/> Pit		MUD PROPERTIES	
Flowing Temperature	F		
Time Sample Taken		<u>1:30 P.M.</u>	
Depth (ft.)		<u>4025</u>	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		<u>9.5</u>	<input checked="" type="checkbox"/>
Mud Gradient (psi/ft.)		<u>1.94</u>	
Funnel Viscosity (sec./qt.) API at °F		<u>58</u>	<input checked="" type="checkbox"/>
Plastic Viscosity cp at / °F		<u>24</u>	
Yield Point (lb./100 sq. ft.)		<u>16</u>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		<u>312</u>	<input type="checkbox"/> <input type="checkbox"/>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		<u>10.5</u>	
Filtrate API (ml./30 min.)		<u>8.0</u>	<input checked="" type="checkbox"/>
API HP-HT Filtrate (ml./30 min.) °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/>		<u>1/32</u>	
Alkalinity, Mud (Pm)		<u>1.7</u>	
Alkalinity, Filtrate (Pf / Mf)		<u>5</u>	<input type="checkbox"/> <input type="checkbox"/>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		<u>1400</u>	
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		<u>20</u>	
Sand Content (% by Vol.)		<u>10</u>	
Solids Content (% by Vol.)		<u>8.4</u>	
Oil Content (% by Vol.)			
Water Content (% by Vol.)		<u>91.6</u>	
LCM, #/bbl		<u>1+</u>	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #/bbl. bent.)			

Mud Used:	
Daily Cost	<u>-0-</u>
Cumulative Cost	<u>\$9050.80</u>

MUD PROPERTIES SPECIFICATIONS		
WEIGHT	<u>9.5</u>	VISCOSITY <u>50+</u> FILTRATE <u>10cc</u>
BY AUTHORITY:	<input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER

- RECOMMENDED TREATMENT**
- 50+ Vis/Wet
 - LCM as needed.
 - wt 9.5 or less running 1/2"
 - Stream of water at flowline
 - to control wt.

REMARKS:

Thank you

short trip prior to DST. Log → circulate hole clean.

"Keep hole full" → Jet a good hole in system to get rid of solids.

Mix-2 Desco with Cement flash → add Premix after when running casing / DST.

Premix:
Mix-2-sacks 95h
1-caustic
60+ Vis/Wet
1/4-sacks of Pac
4-Hulls