Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1135677

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34318
Name: BEREXCO LLC
Address 1: 2020 N. BRAMBLEWOOD
Address 2:
City: WICHITA State: KS Zip: 67206 + 1094
Contact Person: Evan Mayhew
Phone: (316) 265-3311
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: Ryan Seib
Purchaser: Central Crude Corporation

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ 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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

03/19/2013	03/29/2013	04/29/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-057-20880-00-00
Spot Description:
SW SE SW NE Sec. 23 Twp. 27 S. R. 24 ☐ East ☑ West
2710 Feet from ☐ North / ☑ South Line of Section
1970 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: Tami Well #: 1-23
Field Name: un-named
Producing Formation: Pawnee
Elevation: Ground: 2500 Kelly Bushing: 2510
Total Vertical Depth: 5198 Plug Back Total Depth: 5140
Amount of Surface Pipe Set and Cemented at: 604 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1603 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: 14400 ppm Fluid volume: 1200 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

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.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 05/15/2013
☑ **Confidential Release Date:** 05/15/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 05/15/2013

1135677

Operator Name: BEREXCO LLC Lease Name: Tami Well #: 1-23

Sec. 23 Twp. 27 S. R. 24 ☐ East ☑ West County: Ford

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

List All E. Logs Run:

Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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	12.250	8.625	23	605	65/35 POZ, Class A	325	5% gel, 3% CC
Production	7.875	5.50	15.5	5190	65/35 POZ, ASC	420	4%gel, 1/4#flakes, 6#gils. 10%salt
Production (DV Tool)	7.875	5.50	15.5	1603	65/35 POZ	300	6% gel

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

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	4853 - 4857 Pawnee	100 gals 15% NEFE	4853 - 4857

TUBING RECORD: Size: 2.375 Set At: SN @ 4918 Packer At: no pkr. Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 04/29/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	37	0	15		35

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL: 4853 - 4857

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tami 1-23
Doc ID	1135677

All Electric Logs Run

Microresistivity Log
Compensated Sonic with Integrated Transit Time Log
Compact PhotoDensity Compensated Neutron Log
Array Induction Shallow Focused Electric Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Tami 1-23
Doc ID	1135677

Tops

Name	Top	Datum
Krider	2642	-132
Winfield	2674	-164
Towanda	2708	-198
Ft. Riley	2769	-259
Heebner	4190	-1680
Brown Lime	4299	-1789
Lansing/KS City	4309	-1797
L/KC (base)	4757	-2247
Pawnee	4851	-2341
Cherokee Sh.	4900	-2390
Cherokee Sh.	4934	-2426
Cherokee Lime	4988	-2484
Cherokee Sand	5025	-2515
RTD	5200	-2690
LTD	5198	-2688

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

April 24, 2013

Evan Mayhew
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-057-20880-00-00
Tami 1-23
NE/4 Sec.23-27S-24W
Ford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Evan Mayhew

ALLIED OIL & GAS SERVICES, LLC 059733

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Medicine Lodge

DATE	SEC	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
3-19-2013	23	27S	24W	11:00 AM	1:30 PM	4:20 PM	4:50 PM

LEASE	WELL #	LOCATION	COUNTY	STATE
Tami	1-23	Ford, KS. North West	Ford	Kansas
OLD OR NEW (Circle one)		6 1/2 Rd 2 1/2 south W/S		

CONTRACTOR Pickrell #1
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 610'
CASING SIZE 8 5/8 DEPTH 608'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 450 MINIMUM
MEAS. LINE SHOE JOINT 42'
CEMENT LEFT IN CSG. 42'
PERFS.
DISPLACEMENT 38 BBLS Freshwater

OWNER Berexco

EQUIPMENT

PUMP TRUCK CEMENTER Carl Baldwin
#561-265 HELPER Dave Felio
BULK TRUCK
#381-252 DRIVER James Bowen
BULK TRUCK
DRIVER

REMARKS:

Run 608' 8 5/8
Mix 225 Lead
100 Tail
Drop Rubber plug to Baffle
Circulate 25 sx+ & Shut in

CHARGE TO: Berexco
STREET
CITY STATE ZIP

CEMENT

AMOUNT ORDERED 420 sx Sugar
225 sx 65:35:6 Gel 3% cc + 1/4 # Flosea
100 sx Class A + 3% cc + 2% gel

COMMON	A 100 sk	@ 17.90	1790.00
POZMIX		@	
GEL	14 sk	@ 23.40	327.60
CHLORIDE	11 sk	@ 64.00	704.00
ASC		@	
ALW	225 sk	@ 15.95	3588.75
Flosea	56.25	@ 2.90	163.12
		@	
		@	
		@	
		@	
		@	
HANDLING	366	@ 2.48	907.68
MILEAGE	15.63/40	2.60	1625.52
		TOTAL	9106.77

SERVICE

DEPTH OF JOB	608'		
PUMP TRUCK CHARGE		1512.25	
EXTRA FOOTAGE		@	
MILEAGE	40	@ 7.70	308.00
MANIFOLD		@ 275.00	N/C
Lv	40	@ 4.40	N/C
		@	
		TOTAL	1820.25

PLUG & FLOAT EQUIPMENT

1-Fiberglass BAFFLE plate	@	75.60
1-Rubber plug	@	84.00
1 Basket	@	243.00
	@	
	@	
	TOTAL	402.60

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any)
TOTAL CHARGES $11,329.62
DISCOUNT 28% IF PAID IN 30 DAYS
Nt 8157.33

PRINTED NAME Mike Kevin
SIGNATURE Mike Kevin

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks. 67206

ATTN: Ryan Seib

23-27s-24w Ford Ks.

Tami #1-23

Job Ticket: 50956 **DST#: 1**

Test Start: 2013.03.26 @ 16:59:17

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:45:17
Time Test Ended: 03:26:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Gary Pevoteaux
Unit No: 56

Interval: 4849.00 ft (KB) To 4877.00 ft (KB) (TVD)
Total Depth: 4877.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

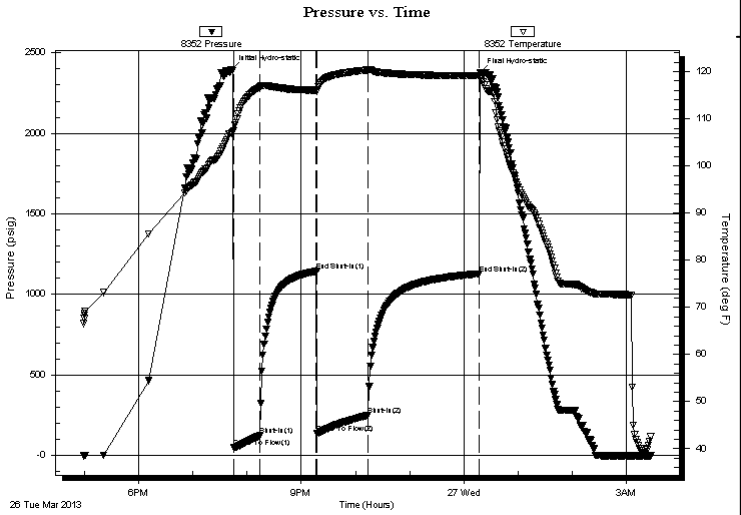
Reference Elevations: 2510.00 ft (KB)
2500.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8352 **Outside**

Press@RunDepth: 251.51 psig @ 4850.00 ft (KB)
Start Date: 2013.03.26 End Date: 2013.03.27
Start Time: 16:59:22 End Time: 03:26:47

Capacity: 8000.00 psig
Last Calib.: 2013.03.27
Time On Btm: 2013.03.26 @ 19:43:17
Time Off Btm: 2013.03.27 @ 00:17:47

TEST COMMENT: IF:Strong blow . B.O.B. in 80 secs.
ISI:Weak blow . 1/2 - 1 1/2".
FF:Strong blow . B.O.B. in 4 mins.
FSI:Fair to strong blow . B.O.B.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2394.89	107.01	Initial Hydro-static
2	50.87	107.51	Open To Flow (1)
31	122.71	116.69	Shut-In(1)
93	1143.55	116.10	End Shut-In(1)
94	137.24	115.80	Open To Flow (2)
151	251.51	120.35	Shut-In(2)
274	1128.54	119.14	End Shut-In(2)
275	2374.86	118.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
335.00	SW/w o specs	3.61
125.00	GOCM 49%g 21%o 30%m	1.75
75.00	CGO 11%g 89%o	1.05
0.00	2900 ft.of GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N. Bramblew ood
Wichita Ks. 67206

ATTN: Ryan Seib

23-27s-24w Ford Ks.

Tami #1-23

Job Ticket: 50956 **DST#: 1**

Test Start: 2013.03.26 @ 16:59:17

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	35.3 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	84500 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	14.39 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
335.00	SW/w o specs	3.606
125.00	GOCM 49%g 21%o 30%m	1.753
75.00	CGO 11%g 89%o	1.052
0.00	2900 ft.of GIP	0.000

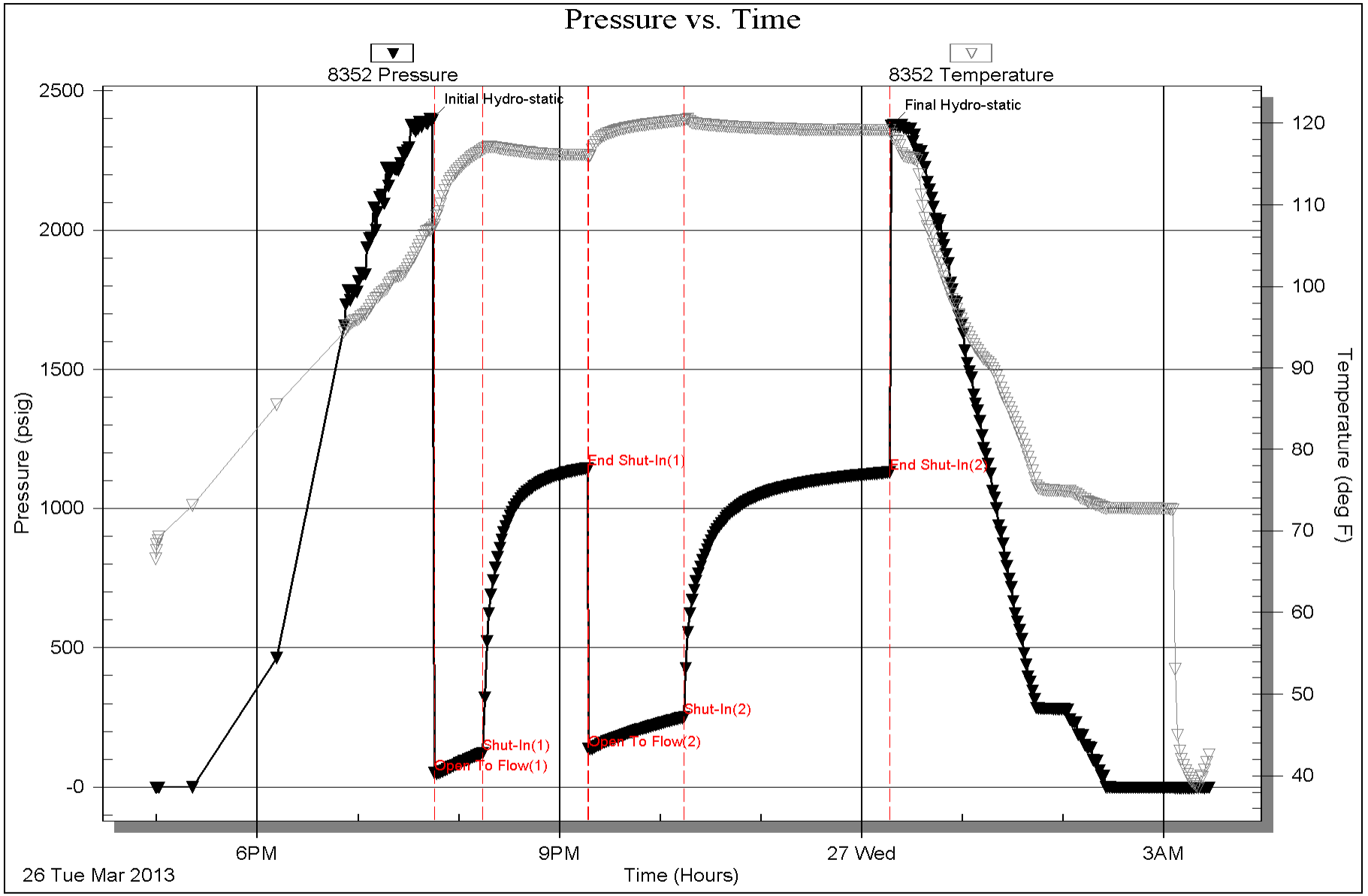
Total Length: 535.00 ft Total Volume: 6.411 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments: Rw .16ohms@43deg

Serial #: 8352 **Outside** Berexco LLC Tami #1-23 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 50956 Printed: 2013.03.27 @ 07:46:26

DRILL STEM TEST REPORT

Berexco LLC

2020 N. Bramblew ood
Wichita Ks. 67206

ATTN: Ryan Seib

23-27s-24w Ford Ks.

Tami #1-23

Job Ticket: 50957 **DST#: 2**

Test Start: 2013.03.28 @ 00:08:55

GENERAL INFORMATION:

Formation: **Cherokee Sd./ Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:25:10
Time Test Ended: 09:17:25

Test Type: Conventional Bottom Hole (Reset)
Tester: Gary Pevoteaux
Unit No: 56

Interval: 4998.00 ft (KB) To 5045.00 ft (KB) (TVD)
Total Depth: 5045.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

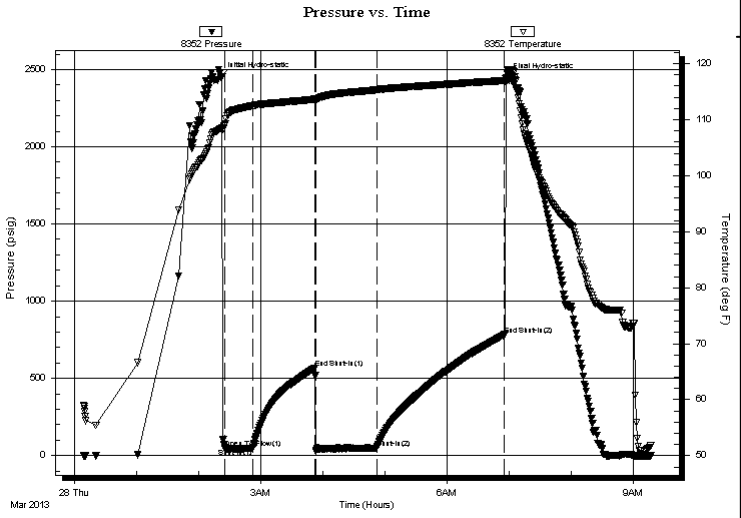
Reference Elevations: 2510.00 ft (KB)
2500.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8352 **Outside**

Press@RunDepth: 47.43 psig @ 4999.00 ft (KB)
Start Date: 2013.03.28 End Date: 2013.03.28
Start Time: 00:09:00 End Time: 09:17:25

Capacity: 8000.00 psig
Last Calib.: 2013.03.28
Time On Btm: 2013.03.28 @ 02:21:40
Time Off Btm: 2013.03.28 @ 06:56:55

TEST COMMENT: IF:Strong blow . B.O.B. in 10 secs.
ISI:No blow .
FF:Strong blow . B.O.B. in 2 secs. GTS in 22 mins.TSTM
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2452.74	108.43	Initial Hydro-static
4	49.16	109.14	Open To Flow (1)
31	45.65	112.51	Shut-In(1)
91	567.87	113.66	End Shut-In(1)
92	28.62	113.45	Open To Flow (2)
151	47.43	115.33	Shut-In(2)
274	780.78	116.99	End Shut-In(2)
276	2449.56	117.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Drlg.mud	0.34
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

2020 N. Bramblew ood
Wichita Ks. 67206

ATTN: Ryan Seib

23-27s-24w Ford Ks.

Tami #1-23

Job Ticket: 50957 **DST#: 2**

Test Start: 2013.03.28 @ 00:08:55

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	5400 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.38 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5400.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Drlg.mud	0.344
0.00	GTS	0.000

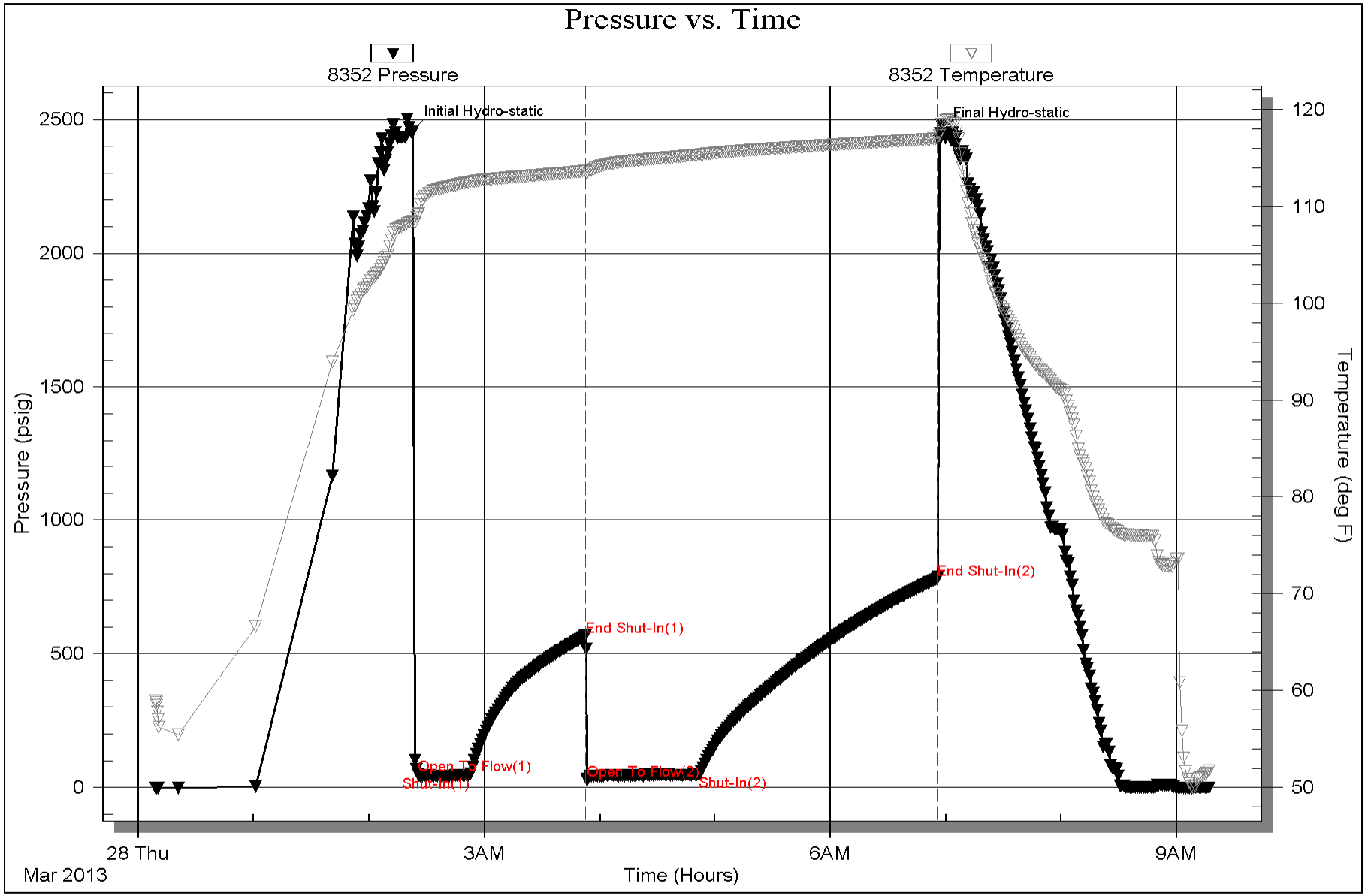
Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8352 **Outside** Berexco LLC Tami #1-23 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 50957 Printed: 2013.03.28 @ 11:02:30

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO. 1

Date 3-30-2013 District ML Ticket No. 59759
Company Berexco Rig Pickrell
Lease Tom's Well No. 1-23
County Ford State KS
Location W/E Ford, KS Field 23-27S-24W

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☑
Surface ☐ Intermediate ☐ Production ☐ Liner ☐
Size 5 1/2 Type _____ Weight 15.5 # Collar _____

Casing Depths: Top KB Bottom 5200'

Drill Pipe: Size _____ Weight _____ Collars _____
Open Hole: Size 7 7/8 T.D. 5200 ft. P.B. to _____ ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01
Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.41
Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
Spacer Type: _____
Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type 65:35:6 + 6% Gel
1/4 # Flosel + _____ Excess _____
Amt. 200 Sks Yield 1.95 ft³/sk Density 12.5 PPG
TAIL: Pump Time _____ hrs. Type Class A ASC
2# Kolseal + .5% FL-160 + 1/4 # Defoamer
Amt. 220 Sks Yield 1.57 ft³/sk Density 14.5 PPG
WATER: Lead 10.1 gals/sk Tail 7.23 gals/sk Total 86 Bbls.

Pump Trucks Used 360-26.5
Bulk Equip. 381-252

Float Equip: Manufacturer Industrial Rubber
Shoe: Type AFU Float Shoe Depth 5200'
Float: Type Latch Down Plug Depth 5157'
Centralizers: Quantity 14 Plugs Top 1 Btm. _____
Stage Collars _____
Special Equip. DV Tool
Disp. Fluid Type Mud, Water Amt. 122 Bbls. Weight _____ PPG
Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Cameron Wilson CEMENTER Darin Franklin

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
	300					Pipe on bottom & break Circulation
	250				3	mix 50sx Scavenger cement
	250				5	mix 150sx lead cement
	250				5	mix 220sx tail cement
						Shut down
						wash pump & lines
						Release plug
	200				3	Start displacement
	500			49	5	Lift pressure @ 49 bbls
	1100			110	3	Slow rate to 3bpm @ 110 bbls
	1900			122	3	bump plug @ 122 bbls 1100-1900 psi
						float dry hold
						drop DV
						open tool with 20 minutes
	1200			1/4	1/4	open tool @ 1/4 bbls 1200 psi
						Circulate 4 hours

FINAL DISP. PRESS: 1100 PSI BUMP PLUG TO 1900 PSI BLEEDBACK Heavy BBLS.

THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO. 2

Date 3-30-2013 District ML Ticket No. 59759

Company _____ Rig _____

Lease Tom's Well No. 1-23

County _____ State _____

Location _____ Field _____

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☑
Surface ☐ Intermediate ☐ Production ☐ Liner ☐

Size 5 1/2 Type _____ Weight 15.5 Collar _____

Casing Depths: Top KB Bottom 1600'

Drill Pipe: Size _____ Weight _____ Collars _____

Open Hole: Size 7 7/8 T.D. 5200 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing:	Bbls/Lin. ft. .0238	Lin. ft./Bbl. 42.01
Open Holes:	Bbls/Lin. ft. _____	Lin. ft./Bbl. _____
Drill Pipe:	Bbls/Lin. ft. _____	Lin. ft./Bbl. _____
Annulus:	Bbls/Lin. ft. .0309	Lin. ft./Bbl. 32.41
	Bbls/Lin. ft. _____	Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type 65:35:6 + 6% Gel + 4# Flocele

Excess _____

Amt. 350 Sks Yield 1.95 ft³/sk Density 12.5 PPG

TAIL: Pump Time _____ hrs. Type _____

Excess _____

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead 10.1 gals/sk Tail _____ gals/sk Total 84 Bbls.

Pump Trucks Used 360-265

Bulk Equip. 356-290

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type Freshwater Amt. 38 Bbls. Weight 8.34 PPG

Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____ CEMENTER _____

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
	100				3	mix 30 sks Cor Rat hole
	100				3	mix 20 sks Cor mouse hole
	200				5	mix 300 sks tail Cement
						Shut down
						Wash pump & lines
						Release plug
	300				4	Start displacement
	500			25	4	Lift pressure @ 25 bbls
	500			30	3	Slow rate to 3 bpm @ 30 bbls
	1500			38	3	bump plug @ 38 bbls 500-1500 psi
						float did hold
						Cement did circulate

FINAL DISP. PRESS: 500 PSI BUMP PLUG TO 1500 PSI BLEEDBACK Held BBLS.

THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS

Ryan Seib
Petroleum Geologist

815 S. Topeka Ness City, KS 67560 (785) 798-5398

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR Decerco L.L.C.

LEASE Tami #1-23

FIELD

LOCATION 2210' FSL & 1970' FEL

SEC. 23 TWP. 27s RGE. 24w

COUNTY Ford STATE KS

CONTRACTOR PickRell Drilling Co. Rig #7

SPUD 3/18/13 COMP. 3/29/13

TD 5200' LOG TD 5198'

SAMPLES SAVED FROM 2400-2900/4100' TO RTD

MUD TIME KEPT FROM 2400-2900/4100' TO RTD

SAMPLES EXAMINED FROM 2400-2900/4100' TO RTD

GEOLOGICAL SUPERVISION FROM 3500 TO RTD

CTD 3793' TYPE MUD Chemical

API # 15-057-20880

ELEVATION
KB 2510'
DF
GL 2500
Measurements Are All From KB

CASING RECORD
SURFACE 8 5/8" @ 591'
PRODUCTION 5 1/2"

WELL LOG SURVEYS
CND, DIL, Micro, Sonic

FORMATION	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM	STRUCT. COMP.
Heebner	2642	(-132)	2634	(-124)	
Lansing	2674	(-164)	2664	(-154)	
Kansas City	2618	(-198)	2608	(-188)	
Stark Shales	2269	(-259)	2760	(-250)	
Swope	4190	(-1680)	4192	(-1682)	
Hertha Lime	4299	(-1789)	4300	(-1790)	
Missing	4309	(-1797)	4310	(-1799)	
KC	4757	(-2247)	4752	(-2242)	
Marmaton	4851	(-2341)	4860	(-2350)	
Pawnee	4900	(-2390)	4900	(-2390)	
Cherokee Sh.	4934	(-2424)	4936	(-2426)	
Cherokee Lime	4988	(-2478)	4994	(-2484)	
Cherokee Ss.	5025	(-2515)	5025	(-2515)	

REFERENCE WELL FOR STRUCTURAL COMPARISON:

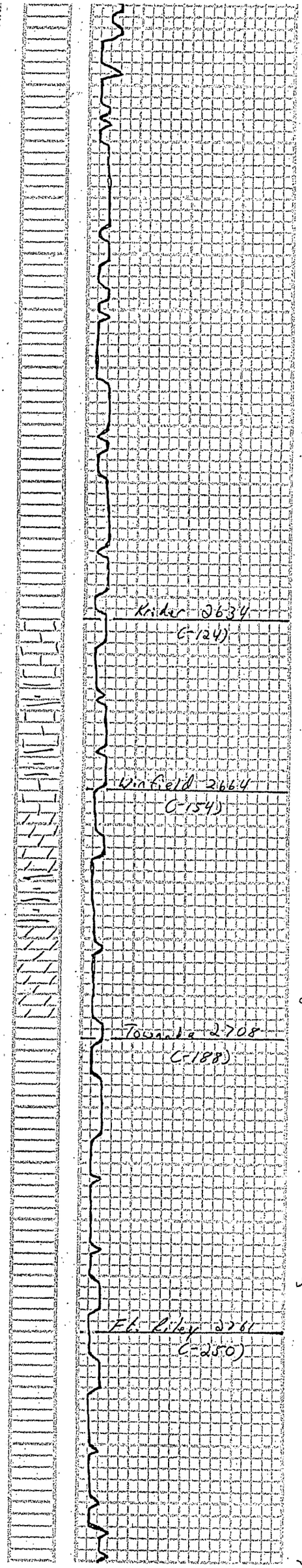
DRILLING TIME

LEGEND

Anhydrite Salt Sandstone Shale Coh sh Limestone Oolitic Chert Dolomite

SCALE " = 100'

Min/ft	Drilling time in minutes	DEPTH	Sample Description	Remarks, drill stem tests, etc.
		2500	Poor Sample, Quality 90% Sh / 10% Lime	2500'-2900' No Visible Limestone



Ls., crm-tn, fn-vfn xln, dense/brittle, ip, no vis Ø, few piece of D, wh-opaque, no odc, n/s

Sh, red-gy

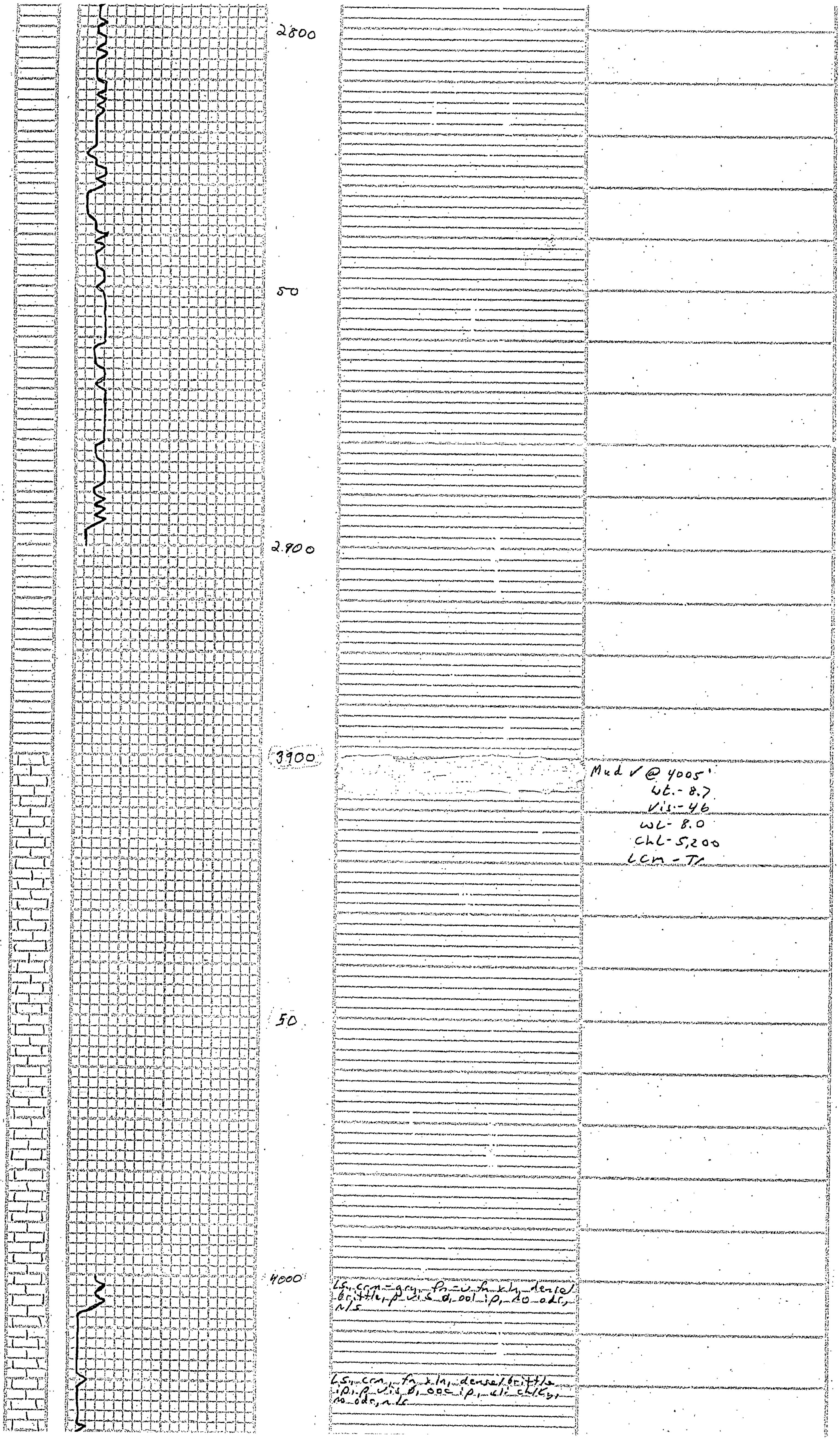
Ls., AA

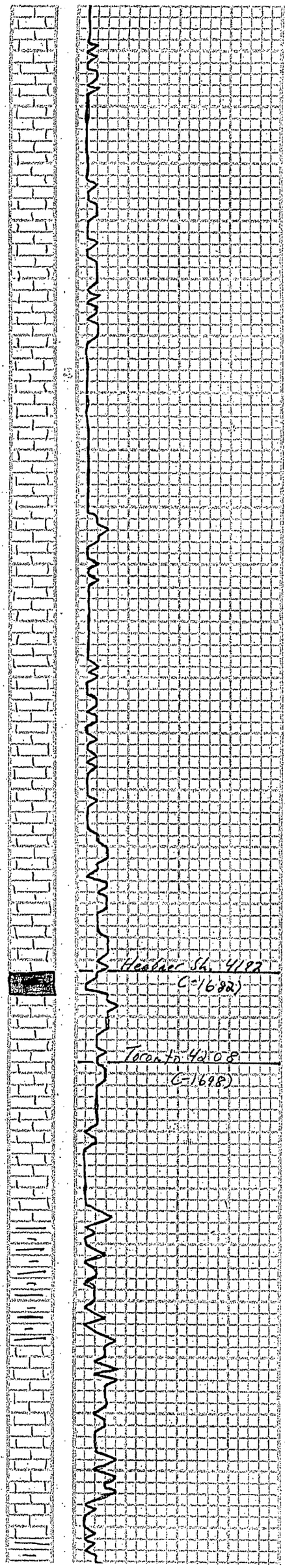
Sh, gry-red

Dol, crm-brn, fn-md gry, dense/brittle, ip-p vis Ø, sht, ip, no odc, n/s — 15 unit gas kick

Sh, red — 10 unit gas kick

Dol, brn, fn xln, dense/hard, p-f vis Ø, no odc, n/s


2800
50
2900
3900
50
4000
Mud ✓ @ 4005'
Wt.- 8.7
Vis.- 46
WL- 8.0
CHL-5,200
LCM - Tr
LS, crm-gry, fn-v fn xln, dense/ brittle, p vis ø, ool ip, no odr, n/s
LS, crm, fn xln, dense/brittle ip, p vis ø, ooc ip, cl chlky, no odr, n/s



no_odc, n_fr

LS, AA

LS, crm-tn, fn-v fn x ln, brittle, p_v.i.s 0, .001 ip, no_odc, n/s

LS, crm-vlt, fn x ln, dense/brittle, p_v.i.s 0, occ .00c 6, no_odc, n/s

LS, crm-gry, fn-v fn x ln, dense/brittle, p-f .00c 6, no_odc, n/s

LS, crm, fn x ln, dense/hard, p_v.i.s 0, sli ch/kg, no_odc, n/s

LS, crm-brn, fn-v fn x ln, dense/hard, p-n_v.i.s 0, .001 ip, no_odc, n/s

LS, crm-tan, fn-v fn x ln, dense/hard, p_v.i.s 0, .001 ip, tr. foss, no_odc, n/s

Sh, blk, carb

Sh, grn-blk

LS, crm-drk gry, fn-v fn x ln, dense/hard, n_v.i.s 0, no_odc, n/s

LS, crm-brn, fn-v fn x ln, dense/brittle, ip, p_v.i.s 0, v.sli ch/kg, no_odc, n/s

LS, crm-tn, fn-v fn x ln, dense/hard, p_v.i.s 0, v.sli ch/kg, no_odc, tr dead oil stn, n/s fo

Sh, gry-red

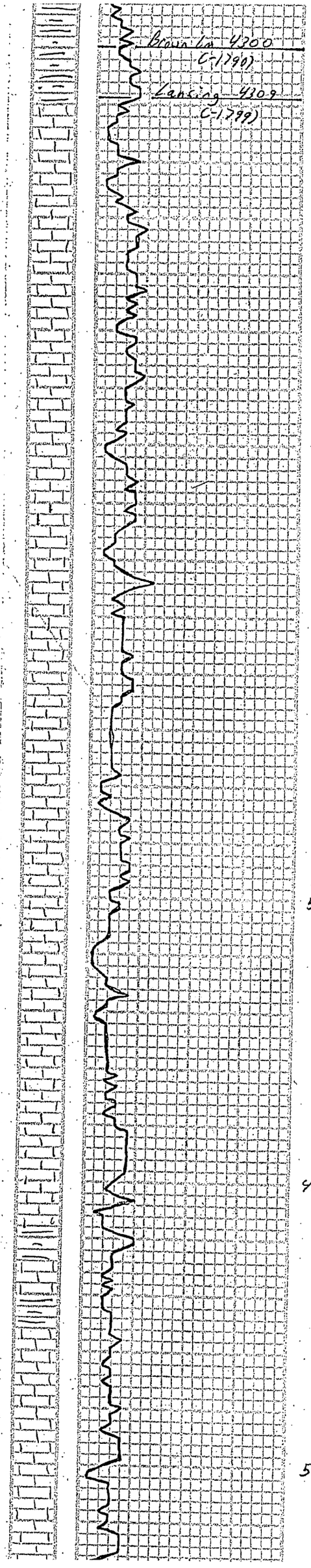
SLy, AA

LS, crm-brn, fn x ln, dense/brittle, ip, p_v.i.s 0, .001 ip, ch/kg, no_odc, n/s

LS, crm-gry, fn-v fn x ln, dense/hard, n_v.i.s 0, sli ch/kg, no_odc, n/s

LS, crm-lt gry, fn x ln, dense/brittle, ip, n_v.i.s 0, sli ch/kg, no_odc, n/s

Sh, varic color



Sh., var. color

LS, crm-brn, fn-x la, dense/hard, p-vis Ø, scatt foss, no odr, n ls

LS, AA

LS, crm-drk gry, v fn-x la, dense/hard, n-vis Ø, s.l. ch lams, no odr, n ls

LS, crm-tn, fn-v fn x la, dense/hard, n-vis Ø, sca. th foss, no odr, n ls

LS, crm-wh, fn-v fn x la, dense/hard, p-n-vis Ø, s.l. ch lams, no odr, n ls

LS, crm-brn, fn-v fn x la, dense/brittle, p-n-vis Ø, occ foss, no odr, n ls

LS, crm-tn, fn x la, dense/hard, p-n-vis Ø, no odr, n ls

LS, crm-gry, fn-v fn x la, dense/hard, n-vis Ø, mott, p, no odr, n ls

LS, crm-tn, fn x la, dense/brittle, p, f oocs Ø, no odr, n ls

LS, crm-gry, fn-v fn x la, dense/hard, p-vis Ø, occ foss, s.l. ch lams, no odr, n ls

LS, AA

LS, crm-tn, fn-v fn x la, dense/hard, p-vis Ø, no odr, n ls

LS, crm-lt gry, fn-x la, dense/brittle, p, p-vis Ø, no odr, n ls

LS, crm, fn-v fn x la, dense/brittle, f oocs Ø, s.l. ch lams, no odr, n ls

LS, crm-brn, fn-v fn x la, dense/hard, p-vis Ø, occ p, no odr, n ls

LS, crm-tn, v fn x la, dense/hard, n-vis Ø, s.l. ch lams, no odr, n ls

LS, brn-gry, fn-v fn x la, dense/hard, n-vis Ø, no odr, n ls

LS, AA

Sh., gry

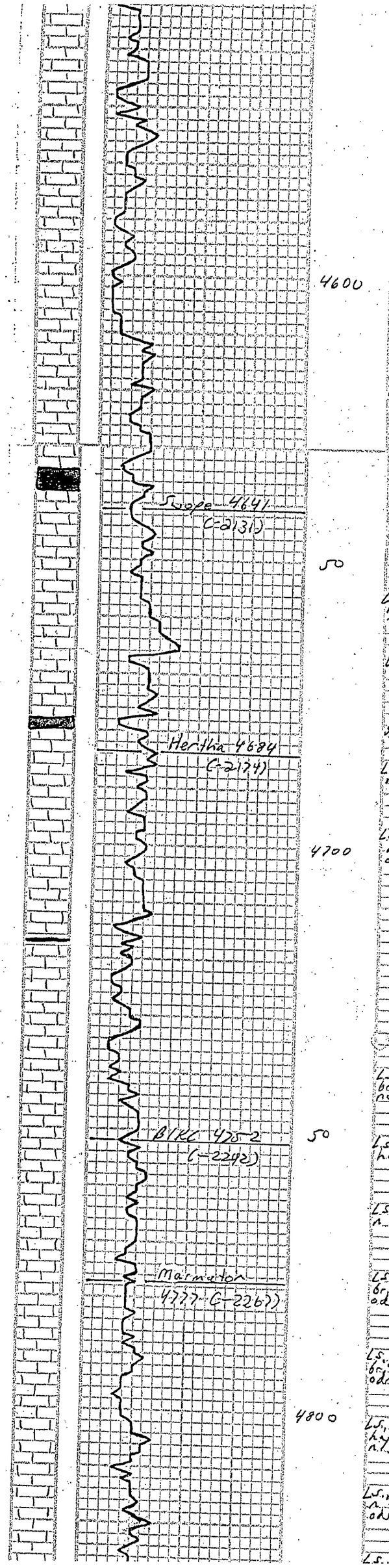
LS, fn-lt gry, fn-v fn x la, dense/brittle, p, n-vis Ø, no odr, n ls

Sh., var. color

LS, crm-gry, fn x la, dense/hard, p-vis Ø, s.l. ch lams, no odr, n ls

LS, tn-lt gry, fn x la, dense/hard, p-n-vis Ø, no odr, n ls

LS, crm-tn, fn x la, dense/hard, p-vis Ø, occ p, s.l. ch lams, no odr, n ls



LS, crm-tn, fn-v.fn x-ln, dense/hard, p-vis-Ø, 001 ip, s-sl-chlky, no odc, n/s

LS, crm-brn, fn-v.fn x-ln, dense/hard, p-vis-Ø, 00C ip, chlky, no odc, n/s

LS, AA

LS, crm-tn, fn-v.fn x-ln, dense/hard, p-fr-vis-Ø, s-sl-chlky, no odc, n/s

LS, crm, fn-v.fn x-ln, dense/brittle, ip, fr-g, 00C Ø, no odc, n/s

LS, crm-lt brn, fn-v.fn x-ln, dense/hard, n-vis-Ø, no odc, n/s

Mud Wt @ 4600'
Wt - 9.3
Vis - 48
WL - 12.4
Cht - 4,500
LCM - 0

Sh, blk calc

LS, crm-gry, fn-v.fn x-ln, dense/brittle, ip, n-vis-Ø, sl-chlky, no odc, n/s

LS, crm-tn, fn-v.fn x-ln, dense/hard, n-vis-Ø, sl-chlky, no odc, n/s

LS, AA

Bit Trip @ 4666'
Strap - 13' Long to Board

Sh, blk calc

LS, crm-gry, fn x-ln, dense/hard, n-vis-Ø, mott ip, n-odc, n/s

LS, crm-dk gry, fn-v.fn x-ln, dense/brittle, ip, n-vis-Ø, no odc, n/s

Lost Sample Return

LS, crm-gry, fn-v.fn x-ln, dense/brittle, ip, n-vis-Ø, scatt foss, no odc, n/c

LS, fn-v.ln, fn-v.fn x-ln, dense/hard, n-vis-Ø, chlky, no odc, n/s

LS, crm-tn, fn x-ln, dense/hard, n-vis-Ø, scatt foss, no odc, n/s

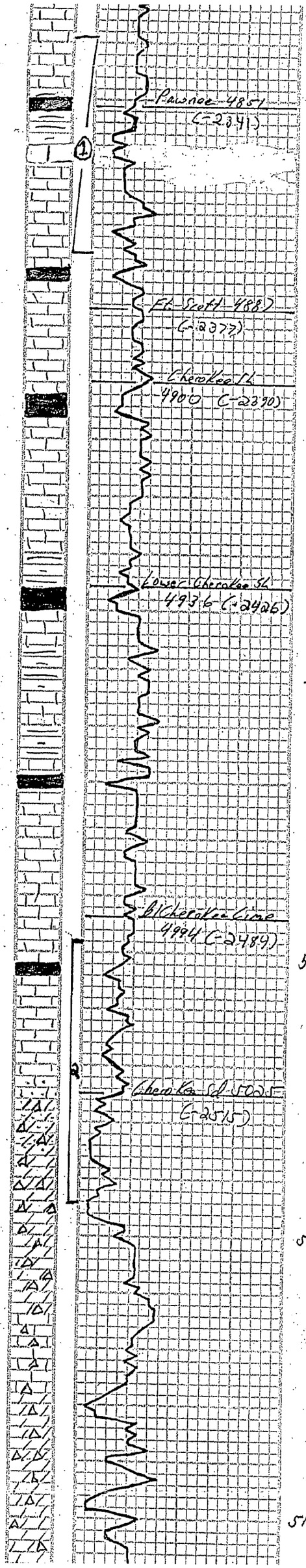
LS, crm-brn, fn-v.fn x-ln, dense/brittle, ip, n-vis-Ø, n-chlky, no odc, n/s

LS, crm-vlt, fn x-ln, dense/brittle, n-vis-Ø, occ foss, no odc, n/s

LS, crm-lt gry, fn-v.fn x-ln, dense/hard, n-vis-Ø, sli-chlky, no odc, n/s

LS, crm-gry, fn x-ln, dense/hard, n-vis-Ø, mott ip, n-chlky, no odc, n/s

LS, crm-brn, fn-v.fn x-ln, dense/



LS, Lt

Sh, v ari. color

LS, crm-wh, fn-vfn x ln, dense/hard, p-n vis Ø, no odr, n/s

Sh, BLK Carb

LS, crm-tn, fn-vfn x ln, dense/brittle, p-p vis Ø, sli ch lKy, t-g odr, t shows of light brn oil

LS, crm-tan, fn-vfn x ln, dense/hard, p-n vis Ø, sli ch lKy, p-o odr, n/s to

Sh, BLK Carb

LS, crm-tn, fn-vfn x ln, dense/hard, p-p vis Ø, occ-p, no odr, n/s

Sh, BLK Carb

LS, crm-brn, fn x ln, dense/brittle, p-p vis Ø, no odr, n/s

LS, crm-dLK gry, fn-vfn x ln, dense/hard, n vis Ø, ch lKy, no odr, n/s

Sh, v ari. color

Sh, BLK Carb

LS, crm-tn, fn-vfn x ln, dense/hard, n vis Ø, scatt fos, no odr, n/s

Sh, v gry-blK

LS, crm-brn, fn-vfn x ln, dense/brittle, p-occ-fos, no odr, n/s

Sh, v ari. color

Sh, BLK Carb

LS, crm-tn, fn-vfn x ln, dense/brittle, p-n vis Ø, sli ch lKy, no odr, n/s

LS, crm-opaque, fn-vfn x ln, brittle, n vis Ø, occ fos, no odr, n/s

LS, crm-dLK brn, fn-vfn x ln, dense/hard, mott p, n vis Ø, no odr, n/s

Sh, BLK Carb

LS, LGM-tn, fn-vfn x ln, dense/hard, p vis Ø, sli ch lKy, no odr, n/s

LS, crm-wh, fn-fn x ln, dense/hard, n vis Ø, no odr, n/s

Ool, wh-brn, fn x ln, dense/hard, p-p vis Ø, vuggy-p, n odr, v slight show sm glassy oil

Ch, wh-opaque, v fn, crypto x ln, dense/brittle, p, t-g vuggy Ø, some ppt Ø, p odr, fr show of glassy free light brn oil

Ch, wh-brn, v fn x ln, dense/hard, p vis Ø, trace vuggy Ø, no odr, n/s

Ch, wh-tn, v fn x ln, dense/hard, p vis Ø, trace vuggy Ø, no odr, n/s

LS, crm-tan, fn-vfn x ln, dense/hard, n vis Ø, sli ch lKy, no odr, n/s

Ch, wh-yellow, v fn-crypto x ln, dense/hard, fresh/shiny, p-n vis Ø, no odr, n/s

Ool, wh, fn-vfn x ln, dense/brittle, p-p-n vis Ø, no odr, n/s

Ch, wh-gy, v fn-crypto x ln,

14 unit gas kick

Mud ✓ @ 4860'
wt. 9.4
Vis-48
WL-14.4
Chl-4,500
LCM-2

Mud ✓ @ 4899'
wt-9.4
Vis-61
WL-8.4
Chl-5,400
LCM-2

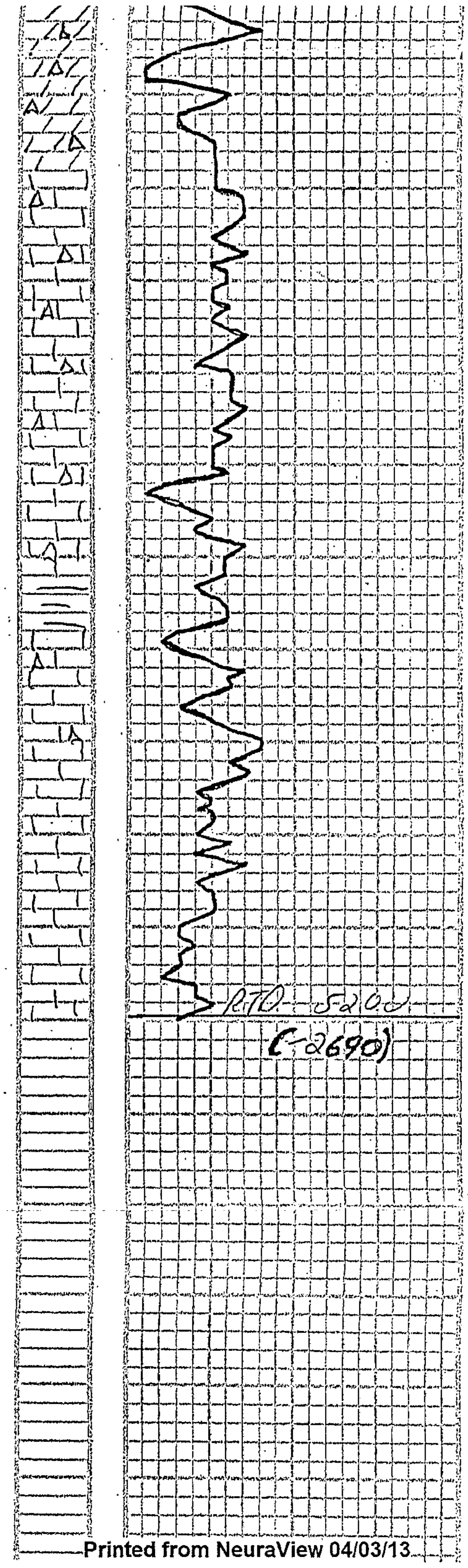
DST #1 4849-4877
30-60-60-120
Rec. 2700' GIP
75' (60 Cl ppm, 8800)
125' GOCM (49% g, 21% o, 30% m)
375' SW w/ tr. oil (100% w)
HP-2375#-2375#
IFP-51#-122# FFP-137#-252#
ISIP-1144# FSIP-1129#

DST #2 4898'-5045'
30-60-60-120
IF: B.O.B. 10s N. Return
FF: B.O.B. 25 N. Return
Rec. 70' mud 675' in 22" 2nd open TSTM
HP-2453#-2450#
IFP-49#-46# FFP-284-47#
ISIP-568# FSIP-781#

37 unit gas kick

37 unit gas kick

Mud ✓ @ 5045'
wt.-9.4
Vis-48
WL-10.0
Chl-6,400
LCM-2



5100

Dol, wh, fn-v fn xln, dense/brittle, p, p-n vis ø, no odr, n/s

Ch, wh-gy, v fn-crypto xln, dense/hard, p-n vis ø, fresh/sharp, no odr, n/s

Ls, crm-wh, v fn xln, dense/hard, n vis ø, sl chlky, no odr, n/s

Ch, wh-gy-brn, v fn xln, dense/hard, n vis ø, no odr, n/s

50

Ls, crm-tn, fn-v fn xln, dense/brittle, p, n vis ø, no odr, n/s

Sh, gry-blk

Ch, wh-brn, v fn xln, dense/hard, n vis ø, fresh/sharp, n/s

Ls, crm-brn, fn-v fn xln, dense/hard, n vis ø, sl chlky, no odr, n/s

Ls, AA

5200

Smith

ALLIED OIL & GAS SERVICES, LLC 059759

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge Ks

DATE 3-30-2003	SEC. 23	TWP. 27s	RANGE 24w	CALLED OUT	ON LOCATION	JOB START 1:30 pm	JOB FINISH 2:30 pm
LEASE Tami	WELL # 1-23		LOCATION Ford Ks n to Saddle Rd.			COUNTY Ford	STATE Ks
OLD OR (NEW) (Circle one)			w to Rd 117, 3 nrth, 1 West				

1.07 7.95

CONTRACTOR Pickrell
TYPE OF JOB 2 Stage
HOLE SIZE 7 7/8 T.D. 5200'
CASING SIZE 5 1/2 15.5# DEPTH 5200'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DV Tool DEPTH 1601'
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 43
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 38 bbls mud; 84 bbls water

OWNER Bereco

EQUIPMENT

PUMP TRUCK #360 (265) CEMENTER Dustin F 1
HELPER Jake W 2
BULK TRUCK #381-250 DRIVER Doug F 1
BULK TRUCK #356-290 DRIVER James B. 3

REMARKS:

See Cement Logs

CEMENT

AMOUNT ORDERED 200sx 65:35:6% Gel + 1/4# Flosel
220sx Class A D56+6# Kolseal + .5% FL-160 + 1/4# D-Flapper, 350sx 65:35:6% Gel + 1/4# Flosel

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC	220 SK	@ 20.90	4598.00
ALW	550 SX	@ 16.50	9075.00
Flosel	137.50#	@ 2.97	408.37
Kolseal	1320#	@ .98	1293.60
FL-160	103.40	@ 18.90	1954.26
Defoamer	30.80	@ 9.80	301.84
		@	
		@	
		@	
HANDLING	856.41	@ 2.48	2123.89
MILEAGE	40/2.60/3277		5928.05
		TOTAL	23683.04

1610.80

SERVICE

DEPTH OF JOB 5200'
PUMP TRUCK CHARGE 3097.25
EXTRA FOOTAGE @
MILEAGE 40 @ 7.70 308.00
MANIFOLD Rental @ 275.00 N/C
L.V 40 @ 4.40 N/C
@
TOTAL 3407.25

CHARGE TO: Bereco
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

5 1/2 Blue		
1-AFU Float Shoe	@	264.25
2-Baskets	@ 225.75	451.50
14-Centralizers	@ 56.00	784.00
1-Dutch Assy.	@	3636.50
	@	
	TOTAL	5136.25

SALES TAX (If Any) 1810 -
TOTAL CHARGES 32226.54
DISCOUNT 9023.44 IF PAID IN 30 DAYS
(Net) 23,203.10

To: Allied Oil & Gas Services, 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 x Mike Kerr
SIGNATURE x Mike Kerr

Thank you!!!