KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1075593

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3273
Name: HERMAN L. LOEB, LLC
Address 1: PO BOX 838
Address 2:
City: LAWRENCEVILLE State: IL Zip: 62439 + ____
Contact Person: Jesse R. Middagh
Phone: (618) 943-2227
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Jon D. Christensen
Purchaser: Plains Marketing

Designate Type of Completion:

- [x] New Well [ ] Re-Entry [ ] Workover
- [x] 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
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

11/03/2011	11/10/2011	12/02/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25630-00-00
Spot Description:
NW SW NE SE Sec. 34 Twp. 16 S. R. 11 [ ] East [x] West
1692 Feet from [ ] North / [x] South Line of Section
1119 Feet from [x] East / [ ] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

[ ] NE [ ] NW [x] SE [ ] SW

County: Barton
Lease Name: Kroutwurst Well #: 19
Field Name: Kraft-Prusa
Producing Formation: Arbuckle
Elevation: Ground: 1942 Kelly Bushing: 1953
Total Depth: 3475 Plug Back Total Depth: 3452
Amount of Surface Pipe Set and Cemented at: 442 Feet
Multiple Stage Cementing Collar Used? [x] Yes [ ] No
If yes, show depth set: 1001 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: 4900 ppm Fluid volume: 795 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

- [ ] Letter of Confidentiality Received
  Date:
- [ ] Confidential Release Date:
- [x] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: Deanna Garrison Date: 07/16/2012

Side Two

1075593

Operator Name: HERMAN L. LOEB, LLC Lease Name: Kroutwurst Well #: 19

Sec. 34 Twp. 16 S. R. 11 ☐ East ☑ West County: Barton

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

Drill Stem Tests Taken (Attach Additional Sheets)	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Electric Log Submitted Electronically (If no, Submit Copy)	☑ Yes	☐ No

List All E. Logs Run:

Dual Induction Log
Neutron Density w/PE
Microlog

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

Name	Top	Datum
Attached	Attached	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	12.25	8.625	24	442	60/40 POZ	300	Ticket #05260
Production	7.875	5.5	15.5	3473	50/50 POZ	120	Ticket #05044

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	10 Feet - 40 Shots	Shot	3409 - 3419
		Acid 500g 15% MCA-Fe & 2% KCL	

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 12/06/2011

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	18	0	77		

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: 3409 - 3419

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

Form	ACO1 - Well Completion
Operator	HERMAN L. LOEB, LLC
Well Name	Kroutwurst 19
Doc ID	1075593

Tops

Anhydrite	773	+1180
Base Anhydrite	799	+1154
Topeka	2713	-760
Queen Hill Shale	2922	-969
Heebner Shale	3008	-1055
Toronto	3026	-1073
Douglas Shale	3038	-1085
Brown Lmst.	3109	-1156
Lansing 'A'	3123	-1170
Lansing / KC 'H'	3266	-1313
Base Kansas City	3385	-1432
Arbuckle	3402	-1449

6096
6096
760
1567

BASIC ENERGY SERVICES

PAGE	CUST NO	INVOICE DATE
1 of 1	1001845	11/11/2011

INVOICE NUMBER

1718 - 90750987

Pratt (620) 672-1201

BILL TO:
HERMAN L. LOEB
PO Box: 838
LAWRENCEVILLE
IL US 62439
ATTN: ED LOEB

JOB SITE:
LEASE NAME: Kroutwurst 19
LOCATION:
COUNTY: Barton
STATE: KS
JOB DESCRIPTION: Cement-New Well Casing/Pi
JOB CONTACT:

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40394605	19905		Net - 30 days	12/11/2011

For Service Dates: 11/04/2011 to 11/04/2011

0040394605

171805260A Cement-New Well Casing/Pi 11/04/2011
8 5/8" Surface

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
60/40 POZ	300.00	EA	9.48	2,843.77 T
Cello-flake	75.00	EA	2.92	219.21 T
Calcium Chloride	774.00	EA	0.83	641.98 T
Wooden Cement Plug 8 5/8"	1.00	EA	126.39	126.39
Unit Mileage Charge-Pickups, Vans & Cars	75.00	HR	3.36	251.79
Heavy Equipment Mileage	150.00	MI	5.53	829.43
Proppant and Bulk Delivery Charges	968.00	MI	1.26	1,223.45
Depth Charge; 0-500'	1.00	HR	789.93	789.93
Blending & Mixing Service Charge	300.00	MI	1.11	331.77
Plug Container Utilization Charge	1.00	EA	197.48	197.48
Supervisor	1.00	HR	138.24	138.24

PAID #25056 11-17-11

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
PO BOX 10460
MIDLAND,TX 79702

SUB TOTAL	7,593.44
TAX	270.46
INVOICE TOTAL	7,863.90

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 05260 A

DATE TICKET NO.

DATE OF JOB 11-4-11 DISTRICT KANSAS	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman Loeb LLC	LEASE Krout wurst # 19 WELL NO.
ADDRESS	COUNTY Barton 34-16-11 STATE Kansas
CITY STATE	SERVICE CREW Allen, TJ, Steve
AUTHORIZED BY	JOB TYPE: 8-5/8" Surface CMW

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
28443 P.U.	1				
19903-19905	1				
19838-21010	1				

	DATE	AM/PM	TIME
TRUCK CALLED	11-3-11	AM PM	700
ARRIVED AT JOB	11-4-11	AM PM	1226
START OPERATION	11-4-11	AM PM	430
FINISH OPERATION	11-4-11	AM PM	530
RELEASED	11-4-11	AM PM	600
MILES FROM STATION TO WELL	75 miles		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP103	60/40 Poz	SK	300		$ 3600 00
CC102	cell Flake	lb	75		$ 277 50
CC109	Calcium Chloride	lb	774		$ 812 00
CF153	Wooden cement Plug 8-5/8"	EA	1		$ 160 00
E100	Unit mileage Charge Pickup	mi	75		$ 318 75
E101	Heavy Equip mileage chg	mi	150		$ 1050 00
E113	Bulk Delivery Charge	Tm	968		$ 1548 00
CE200	Depth Charge 0-500'	4-hr	1		$ 1000 00
CE240	Blending & mixing Service Chg	SK	300		$ 420 00
CE504	Plug container Utilization chg	Job	1		$ 250 00
S003	Service Supervisor first 8hr shift	ea	1		$ 175 00

CHEMICAL / ACID DATA:			

SUB TOTAL $7,593 44
ALS

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Allen Ewert

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: W. M. Sr

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Herman L. Loeb LLC	Lease No.		Date: 10-4-11		
Lease: Kroetwurst	Well #: 19				
Field Order #: 05260A	Station: Pratt KS	Casing: 8 5/8"	Depth: 442	County: Barton	State: Ks
Type Job: 8-5/8" Surface CNW		Formation: TD 443		Legal Description: 34-16-11	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8	Tubing Size	Shots/Ft		Acid: 300sks 60/40 Poz	RATE	PRESS: 300 CC	ISIP: 1/4 # CF
Depth: 442'	Depth	From	To	Pre Pad: 14.8 #	Max: SAL		5 Min.
Volume: 2.7 BBl	Volume	From	To	Pad	Min		10 Min.
Max Press: 300 #	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 422	Packer Depth	From	To	Flush: Disp H2O	Gas Volume		Total Load

Customer Representative: Bill TP" Station Manager: Scotty Treater: Allen

Service Units	28443	19903	19905	19832	21010						
Driver Names	Allen	TJ	Gibson	Steve	Young						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log: St. # 1
1226	AM				On Loc. Discuss Safety, Set up Plan Job
					Cir @ TD. 443.
210					Start 8-5/8 Casing 23#
					Casing @ 442' Hook up.
430					& Cir w/ Rig. "Good Cir"
445	200#			5	Start mix 300sks 60/40 Poz
					2% gel 3% CC, 1/4 C.F. @ 15#
			65		Finish mix
					Release wooden Plug 8 5/8"
505				4	Start Disp.
515	400#		27		Plug down
	400#				Shut IN @ well
	0				Release PSI Back To Trk.
					Wash up Equip & Rack up.
600					Job complete.
					Cmt To Pit!
					Thanks Allen, TJ
					Steve.

Taylor Printing, Inc. 620-672-3656

60760 760 1567

BASIC ENERGY SERVICES

PAGE	CUST NO	INVOICE DATE
1 of 1	7589	11/15/2011

INVOICE NUMBER
1718 - 90752558

Pratt (620) 672-1201

BILL TO:
HERMAN L LOEB LLC
600 COUNTRY CLUB ROAD
LAWRENCEVILLE
IL US 62439
ATTN: HAFELE

JOB SITE:
LEASE NAME: Kroutwurst 19
LOCATION:
COUNTY: Barton
STATE: KS
JOB DESCRIPTION: Cement-New Well Casing/Pi
JOB CONTACT:

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40395791	20920	[redacted]	Net - 30 days	12/15/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 11/10/2011 to 11/10/2011				
0040395791				
171805044A Cement-New Well Casing/Pi 11/10/2011				
5 1/2" Longstring Port Collar				
50/50 POZ	120.00	EA	8.69	1,042.80 T
60/40 POZ	50.00	EA	9.48	474.00 T
KCL Potassium Chloride	273.00	EA	1.19	323.51 T
Cello-flake	30.00	EA	2.92	87.69 T
Cal-Set	505.00	EA	0.59	299.21 T
FLA-322	51.00	EA	5.93	302.18 T
Gilsonite	720.00	EA	0.53	381.10 T
CS-1L KCL Substitute	4.00	EA	27.65	110.60 T
Mud Flush	1,000.00	EA	0.68	679.40 T
5 1/2" Port Collar	1.00	EA	2,764.99	2,764.99
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	316.00	316.00
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	284.40	284.40
Turbolizer 5 1/2" (Blue)	12.00	EA	86.90	1,042.80
5 1/2" Basket (Blue)	2.00	EA	229.10	458.20
Cement Scratchers Cable Type 5 1/2"	6.00	EA	59.25	355.50
Unit Mileage Charge-Pickups, Vans & Cars	75.00	HR	3.36	251.81
Heavy Equipment Mileage	150.00	MI	5.53	829.50
Proppant and Bulk Delivery Charges	540.00	MI	1.26	682.56
Depth Charge; 3001-4000'	1.00	HR	1,706.40	1,706.40
Blending & Mixing Service Charge	170.00	MI	1.11	188.02
Plug Container Utilization Charge	1.00	EA	197.50	197.50
Supervisor	1.00	HR	138.25	138.25

PAID 25358 12-1-11

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
PO BOX 10460
MIDLAND,TX 79702

SUB TOTAL	12,916.42
TAX	270.14
INVOICE TOTAL	13,186.56

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 05044 A

DATE TICKET NO.

DATE OF JOB 11-10-11 DISTRICT Pratt	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman Loeb	LEASE Krout Wurst WELL NO. 19
ADDRESS	COUNTY Barton STATE KS
CITY STATE	SERVICE CREW Orlando, Mitchell, Hunter
AUTHORIZED BY	JOB TYPE: CNW-5½ L.S. Port Collar

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
27283	1				
33708-20920	1				
19831-19862	1				

	DATE	AM/PM	TIME
TRUCK CALLED	11-10-11	AM PM	10:00
ARRIVED AT JOB		AM PM	1:00
START OPERATION		AM PM	6:30
FINISH OPERATION		AM PM	7:30
RELEASED		AM PM	8:30
MILES FROM STATION TO WELL			75

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP104	50/50 Poz	Sk	120		1320 00
CP103	60/40 Poz	Sk	50		600 00
C700	KCL Potassium Chloride	Lb	273		409 50
CC102	Cellflake	Lb	30		111 00
CC113	Cal Set	Lb	505		378 75
CC129	FLA-322	Lb	51		382 50
CC201	Gilsonite	Lb	720		482 40
CF-481	5½ Port Collar	ea	1		3500 00
CF-607	Latch Down Plug & Baffle 5½	ea	1		400 00
CF1251	Autofill Float Shoe 5½"	ea	1		360 00
CF1651	Turbolizer 5½"	ea	12		1320 00
CF1901	Basket 5½"	ea	2		580 00
CF2001	Cement Scratchers 5½ Cable type	ea	6		450 00
C704	KCL Substitute	Gal	4		140 00
CC151	Mud Flush	Gal	1000		860 00

SUB TOTAL DLS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Steve Orlando

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 050404 A

DATE TICKET NO.

DATE OF JOB 11-10-11 DISTRICT Pratt	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Herman Loeb	LEASE Krautwurst WELL NO. 19
ADDRESS	COUNTY Barton STATE KS
CITY STATE	SERVICE CREW Orlando, Mitchell, Hunter
AUTHORIZED BY	JOB TYPE: CNW-5½ L.S. Portcollar

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
27275	1				
33708-20920	1				
19831-19862	1				

TRUCK CALLED	11-10-11 DATE	AM PM 10:00 TIME
ARRIVED AT JOB		AM PM 1:00
START OPERATION		AM PM
FINISH OPERATION		AM PM
RELEASED		AM PM
MILES FROM STATION TO WELL		75

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
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SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
E100	Pickup Mileage	Mi	75		318 75
E101	Heavy Equipment mileage	Mi	150		1050 00
E113	Bulk Delivery	Tm	540		864 00
CE204	Depth Charge 3001-4000'	Eq	1		2160 00
CE240	Blending & Mixing Charge	Sk	170		238 00
CE504	Plug Container	Eq	1		250 00
5003	Service Supervisor	Eq	1		175 00

CHEMICAL / ACID DATA:			

	SUB TOTAL	12916.42
SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

DLS

SERVICE REPRESENTATIVE Steve Orlando

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Herman Lueb	Lease No.			Date: 11-10-11	
Lease: Krout West	Well #: 19				
Field Order #: 30444	Station: Pratt	Casing: 5 1/2	Depth: 3474	County: Barton	State: KS
Type Job: CNW - 5 1/2 L.S. P.C.		Formation		Legal Description: 34-16-11	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2	Tubing Size	Shots/Ft	12 3/8	Acid: 50/50 poz 135 gal	RATE	PRESS	ISIP
Depth: 3474	Depth	From	To: 505K	Pre Pad: 60/40 RH/MH	Max		5 Min.
Volume: 82.7	Volume	From	To	Pad	Min		10 Min.
Max Press: 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 3452	Packer Depth	From	To	Flush: 82.1	Gas Volume		Total Load

Customer Representative: George Payne	Station Manager: Dave Scott	Treater: Steve Ormsby			
Service Units	27313	33208	20900	19831 / 19862	
Driver Names	Grimes	Mitchell	Hunter		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00 AM					On location - Safety Meeting
					Conditions 1-2-3-4-8-9-11-14-18-58-60-64
					Baskets 6-58 Scratchers 1 to 5 apart
					Port collar @ #59
					Casing on Bottom Break Circ w/ Rig
7:00	300		5	5	H2O Ahead
7:01	300		24	5	mud flush
7:04	300		5	5	H2O spacer
7:05	250		29	5	Mix 175 sks 50/50 poz @ 14# / gal
					Shut Down Clean Pump & Lines
					Release plug
7:16	0		0	6	Start H2O Displacement w 2% KCL
7:25	300		60	5	Lift Pressure
7:27	600		72	4	Slow Rate
7:30 PM	1500		82	4	Plug Down - Held
					Plug RH / MH w 5 sks 60/40 poz
					Job Complete
					Thanks, Steve

Taylor Printing, Inc. 620-672-3656

LITHOLOGY STRIP LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial

Well Name:	#19 Kroutwurst
Location:	1692' FSL & 1119' FEL, Sec. 34-T16S-R11W, Barton Co., KS.
Licence Number:	15-009-25630-0000
Region:	Kraft-Prusa Field
Spud Date:	11/3/2011
Drilling Completed:	11/9/2011
Surface Coordinates:	1692' FSL & 1119' FEL, Sec. 34-T16S-R11W
Bottom Hole Coordinates:	Same as Above
Ground Elevation (ft):	1942'
K.B. Elevation (ft):	1953'
Logged Interval (ft):	2600' To: 3475'
Total Depth (ft):	3475'
Formation:	Arbuckle at TD.
Type of Drilling Fluid:	Freshwater/Gel to 2600'; Chemical Gel 2600' to 3475'

OPERATOR

Company: Herman L. Loeb, LLC.
Address: P.O. Box 838
Lawrenceville, IL. 62439-0838

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
Wichita, KS. 67205-8856

Cores

None Taken

DSTs

DST #1(Arbuckle) 3379' - 3414'(Corrected Depths to Log) Test Times 30"-60"-30"-60" IFP No Blow at all - Flush tool - hammer union loose, reset tool - Weak Blow building to 3.25", FFP Weak Blow built to 3.25", no blowback on SI's; REC: 94' Gas in Pipe, 33' CGO(10%G, 90%O) 41 Deg. API, 31' HOCM(40%O, 60%M), 63' OCM(25%O, 75%M), no Water; IFP 32-54#, ISIP 1105#, FFP 57-77#, FSIP 1103#, IHP 1664#, FHP 1609#, BHT 102 Deg. F.

Comments

11/2/11 MIRU Sterling Drilling Rig #1; 11/3/11 Finish Rig up and Spud at 2:00 PM.; 11/4/11 TD. 443' - WOC; 11/5/11 Drilling at 1200'; 11/6/11 Drilling at 2354'; 11/7/11 Drilling at 3000'; 11/8/11 Drilling at 3380'; 11/9/11 Drilling at 3440' - Reach TD. 3475' at 8:30 AM.; 11/10/11 RTD. 3475' - LTD. 3474' Cementing 5 1/2" Production Casing - PD. 7:30 AM.

Set new 8 5/8" (24#) Surface Casing at 442' w/ 300 sx. Cement Did Circulate(Basic Energy Services). PD. at 5:15 AM. 11/4/11.

Set new 5 1/2"(15.5#) Production Casing at 3473' w/120 sx. cement(Basic Energy Services). Port Collar at 1001'. PD. 7:30 AM. 11/10/11.

Surveys: 0.5 Deg. at 443'(Surface Casing); 0.5 Deg. at 3415'(DST #1).

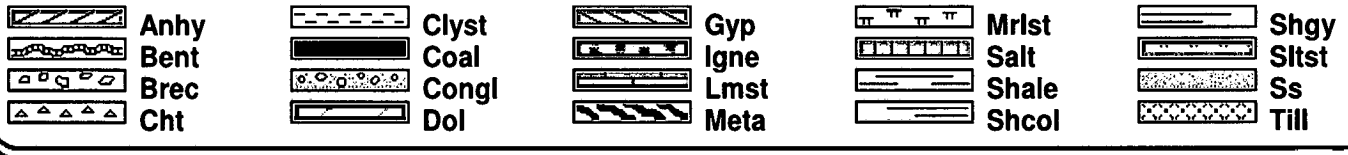
After evaluation of the Superior Logs, DST data, and shows of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" Production casing for completion in the Arbuckle. (See notes for additional recommended perforation zones prior to abandonment of the well).

NOTE: Prior to Abandonment of the #19 Kroutwurst, the Lansing 'A' zone should be perforated and tested from 3122' - 3124'. In addition, the Toronto should be perforated and tested from 3028' - 3032'(Superior Well Service Log Depths).

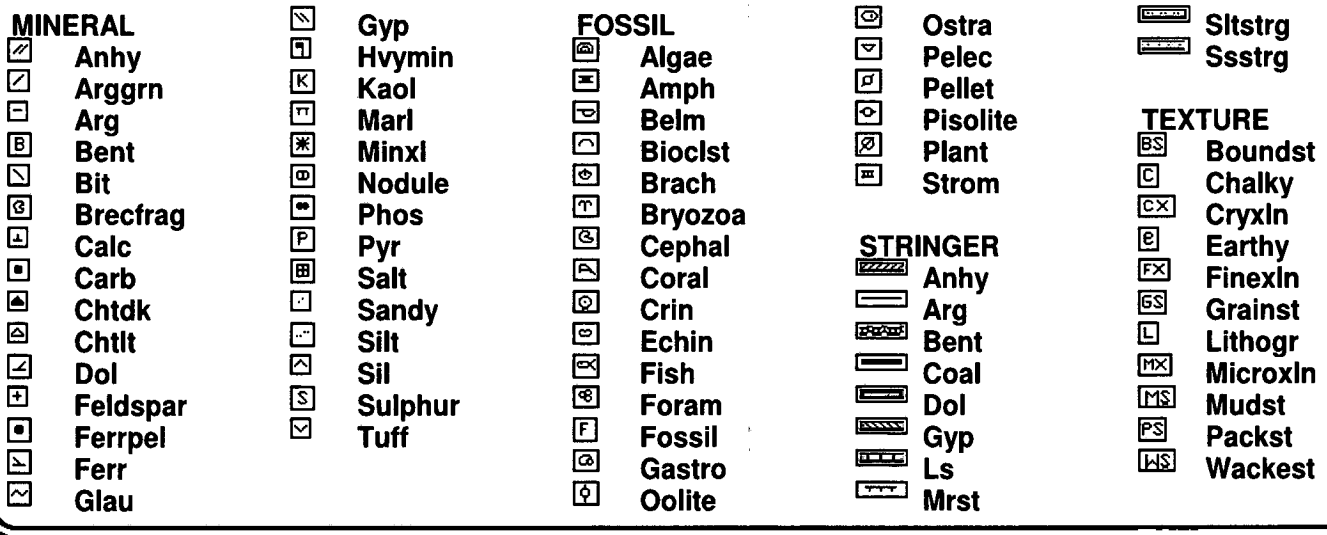
This log was shifted upward by 1' to 2' for correlation purposes with the Superior Well Service openhole logs.

LOG TOPS: Anhydrite 773(+1180), Base Anhydrite 799(+1154), Topeka 2713(-760), Queen Hill Shale 2922(-969), Heebner Shale 3008(-1055), Toronto 3026(-1073), Douglas Shale 3038(-1085), Brown Lmst. 3109(-1156), Lansing 'A' 3123(-1170), Lans/KC. 'H' 3266(-1313), Base Kansas City 3385(-1432), Arbuckle 3402(-1449).

ROCK TYPES



ACCESSORIES



OTHER SYMBOLS

POROSITY
- E Earthy
- Fenest
- F Fracture
- X Inter
- Moldic
- O Organic
- P Pinpoint
- V Vuggy

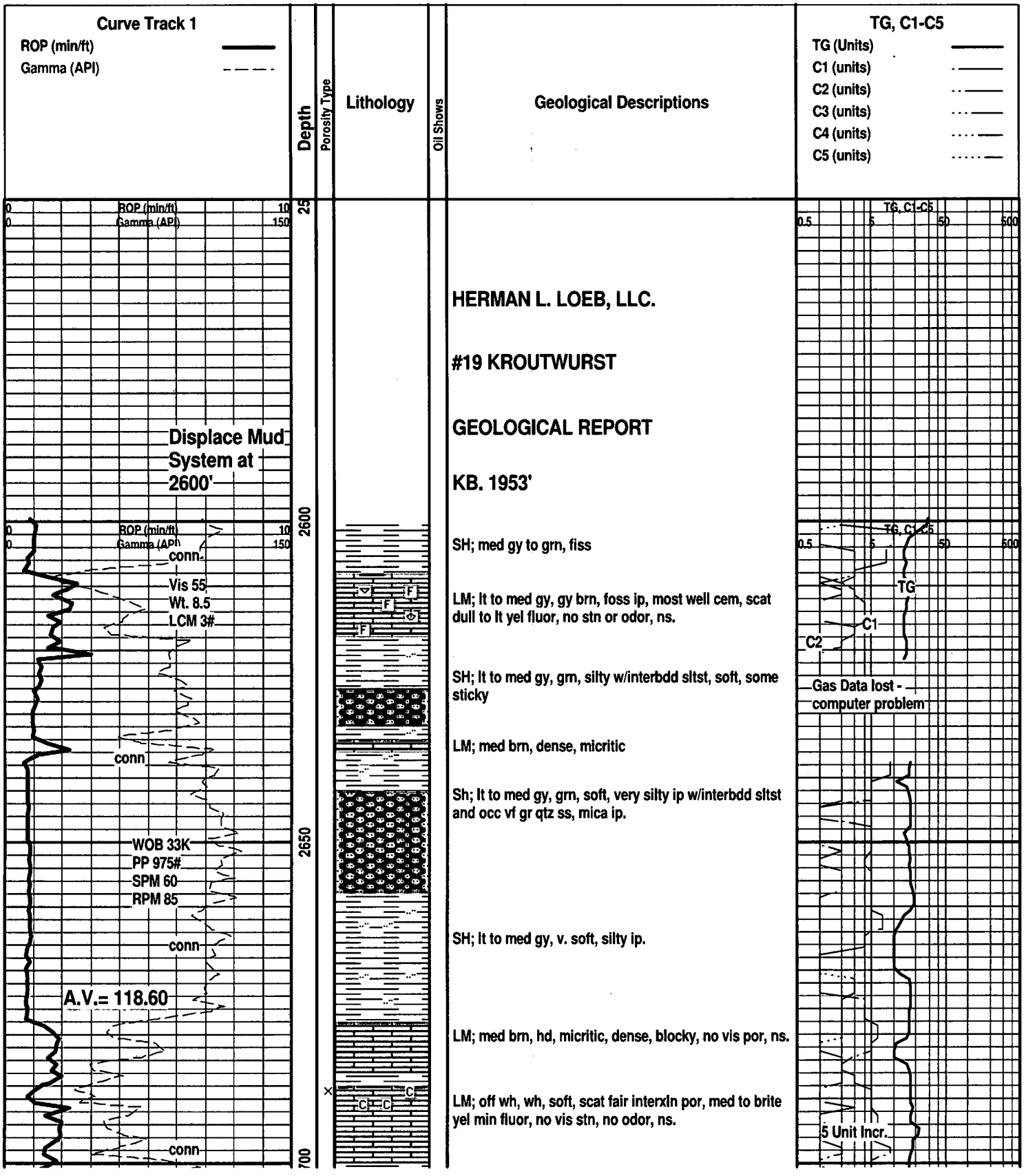
SORTING
- W Well
- M Moderate
- P Poor

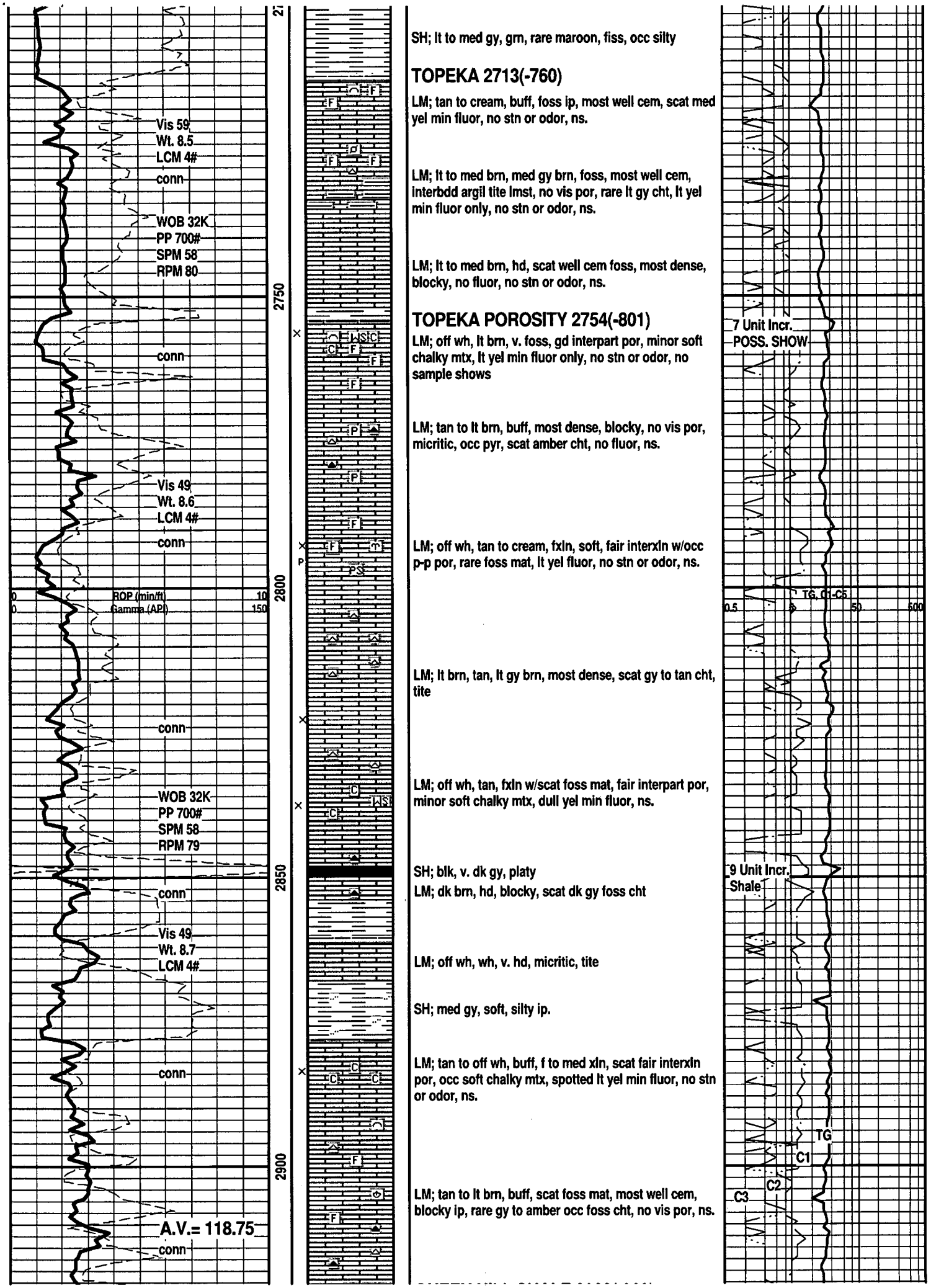
ROUNDING
- R Rounded
- r Subrnd
- a Subang
- A Angular

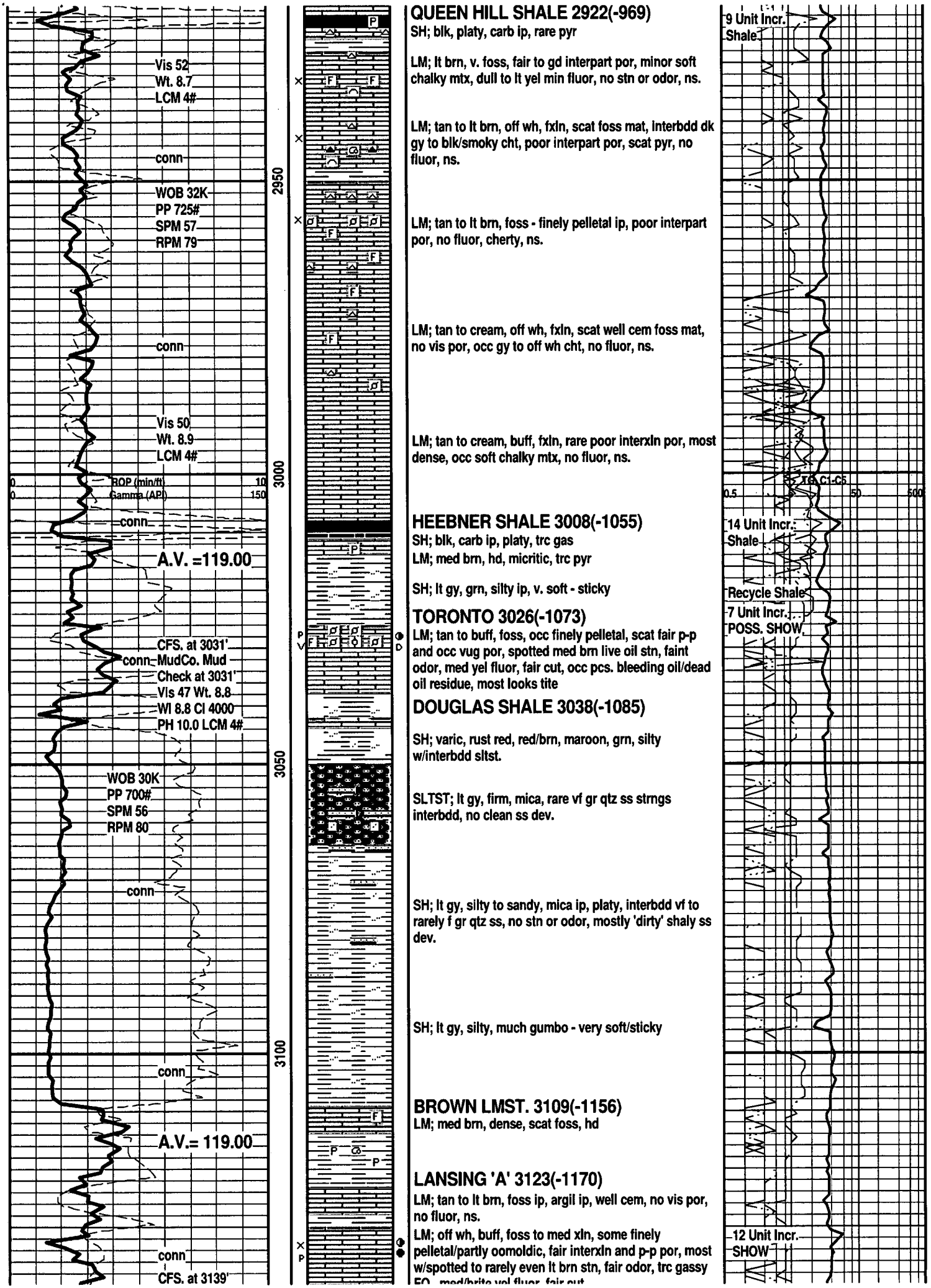
OIL SHOW
- Even
- Spotted
- Ques
- D Dead

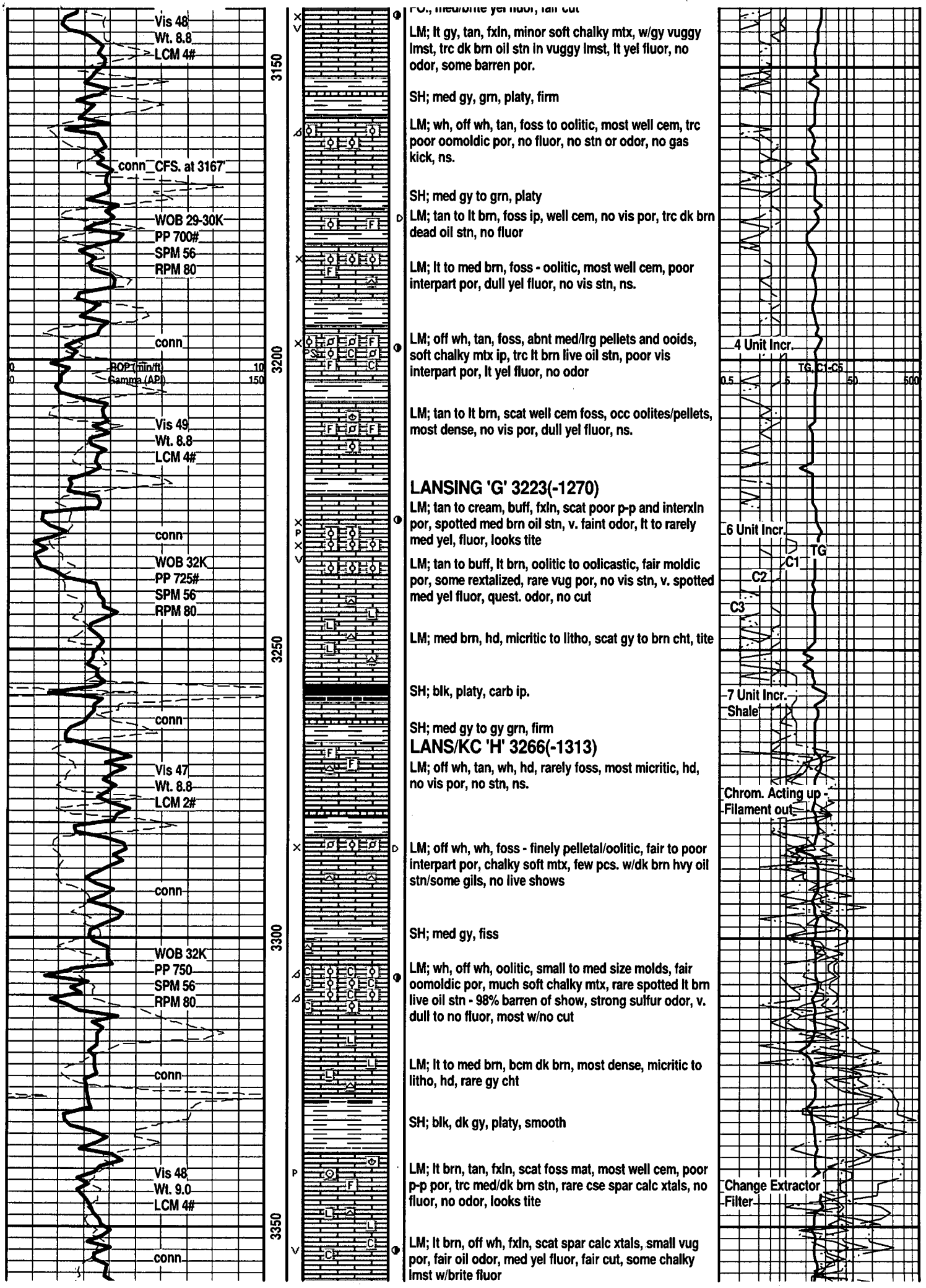
INTERVAL
- Core
- Dst

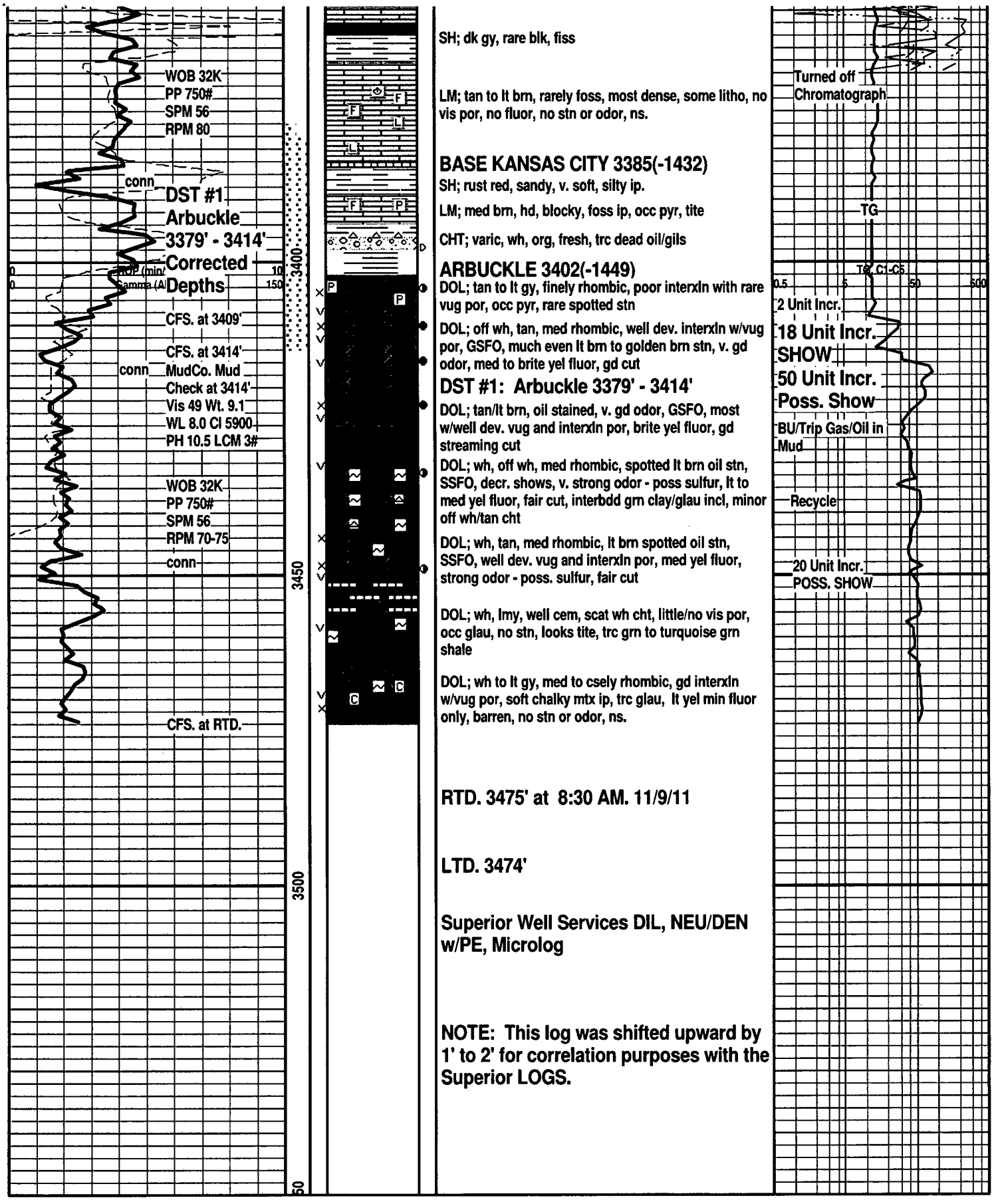
EVENT
- Rft
- Sidewall

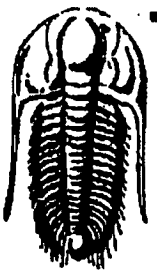



Vis 59
Wt. 8.5
LCM 4#
conn
WOB 32K
PP 700#
SPM 58
RPM 80
conn
Vis 49
Wt. 8.6
LCM 4#
conn
ROP (min/ft)
Gamma (API)
conn
WOB 32K
PP 700#
SPM 58
RPM 79
conn
Vis 49
Wt. 8.7
LCM 4#
conn
A.V.= 118.75
conn
2750
2800
2850
2900
SH; lt to med gy, grn, rare maroon, fiss, occ silty
TOPEKA 2713(-760)
LM; tan to cream, buff, foss ip, most well cem, scat med yel min fluor, no stn or odor, ns.
LM; lt to med brn, med gy brn, foss, most well cem, interbdd argil tite lmst, no vis por, rare lt gy cht, lt yel min fluor only, no stn or odor, ns.
LM; lt to med brn, hd, scat well cem foss, most dense, blocky, no fluor, no stn or odor, ns.
TOPEKA POROSITY 2754(-801)
LM; off wh, lt brn, v. foss, gd interpart por, minor soft chalky mtx, lt yel min fluor only, no stn or odor, no sample shows
LM; tan to lt brn, buff, most dense, blocky, no vis por, micritic, occ pyr, scat amber cht, no fluor, ns.
LM; off wh, tan to cream, fxln, soft, fair interxln w/occ p-p por, rare foss mat, lt yel fluor, no stn or odor, ns.
LM; lt brn, tan, lt gy brn, most dense, scat gy to tan cht, tite
LM; off wh, tan, fxln w/scat foss mat, fair interpart por, minor soft chalky mtx, dull yel min fluor, ns.
SH; blk, v. dk gy, platy
LM; dk brn, hd, blocky, scat dk gy foss cht
LM; off wh, wh, v. hd, micritic, tite
SH; med gy, soft, silty ip.
LM; tan to off wh, buff, f to med xln, scat fair interxln por, occ soft chalky mtx, spotted lt yel min fluor, no stn or odor, ns.
LM; tan to lt brn, buff, scat foss mat, most well cem, blocky ip, rare gy to amber occ foss cht, no vis por, ns.
7 Unit Incr.
POSS. SHOW
TG, C1-C5
0.5
50
500
9 Unit Incr.
Shale
TG
C1
C2
C3


Vis 52
Wt. 8.7
LCM 4#
conn
WOB 32K
PP 725#
SPM 57
RPM 79
conn
Vis 50
Wt. 8.9
LCM 4#
ROP (min/ft)
Gamma (API)
conn
A.V. =119.00
CFS. at 3031'
conn MudCo. Mud
Check at 3031'
Vis 47 Wt. 8.8
WI 8.8 Cl 4000
PH 10.0 LCM 4#
WOB 30K
PP 700#
SPM 56
RPM 80
conn
conn
A.V.= 119.00
conn
CFS. at 3139'
2950
3000
3050
3100
QUEEN HILL SHALE 2922(-969)
SH; blk, platy, carb ip, rare pyr
LM; lt brn, v. foss, fair to gd interpart por, minor soft chalky mtx, dull to lt yel min fluor, no stn or odor, ns.
LM; tan to lt brn, off wh, fxln, scat foss mat, interbdd dk gy to blk/smoky cht, poor interpart por, scat pyr, no fluor, ns.
LM; tan to lt brn, foss - finely pelletal ip, poor interpart por, no fluor, cherty, ns.
LM; tan to cream, off wh, fxln, scat well cem foss mat, no vis por, occ gy to off wh cht, no fluor, ns.
LM; tan to cream, buff, fxln, rare poor interxln por, most dense, occ soft chalky mtx, no fluor, ns.
HEEBNER SHALE 3008(-1055)
SH; blk, carb ip, platy, trc gas
LM; med brn, hd, micritic, trc pyr
SH; lt gy, grn, silty ip, v. soft - sticky
TORONTO 3026(-1073)
LM; tan to buff, foss, occ finely pelletal, scat fair p-p and occ vug por, spotted med brn live oil stn, faint odor, med yel fluor, fair cut, occ pcs. bleeding oil/dead oil residue, most looks tite
DOUGLAS SHALE 3038(-1085)
SH; varic, rust red, red/brn, maroon, grn, silty w/interbdd sltst.
SLTST; lt gy, firm, mica, rare vf gr qtz ss strngs interbdd, no clean ss dev.
SH; lt gy, silty to sandy, mica ip, platy, interbdd vf to rarely f gr qtz ss, no stn or odor, mostly 'dirty' shaly ss dev.
SH; lt gy, silty, much gumbo - very soft/sticky
BROWN LMST. 3109(-1156)
LM; med brn, dense, scat foss, hd
LANSING 'A' 3123(-1170)
LM; tan to lt brn, foss ip, argil ip, well cem, no vis por, no fluor, ns.
LM; off wh, buff, foss to med xln, some finely pelletal/partly oomoldic, fair interxln and p-p por, most w/spotted to rarely even lt brn stn, fair odor, trc gassy
9 Unit Incr.
Shale
Tr C1-C5
0.5
50
500
14 Unit Incr.
Shale
Recycle Shale
7 Unit Incr.
POSS. SHOW
12 Unit Incr.
SHOW


Vis 48
Wt. 8.8
LCM 4#
conn
CFS. at 3167'
WOB 29-30K
PP 700#
SPM 56
RPM 80
conn
ROP (min/ft)
Gamma (API)
Vis 49
Wt. 8.8
LCM 4#
conn
WOB 32K
PP 725#
SPM 56
RPM 80
conn
Vis 47
Wt. 8.8
LCM 2#
conn
WOB 32K
PP 750
SPM 56
RPM 80
conn
Vis 48
Wt. 9.0
LCM 4#
conn
3150
3200
3250
3300
3350
LM; lt gy, tan, fxln, minor soft chalky mtx, w/gy vuggy lmst, trc dk brn oil stn in vuggy lmst, lt yel fluor, no odor, some barren por.
SH; med gy, grn, platy, firm
LM; wh, off wh, tan, foss to oolitic, most well cem, trc poor oomoldic por, no fluor, no stn or odor, no gas kick, ns.
SH; med gy to grn, platy
LM; tan to lt brn, foss ip, well cem, no vis por, trc dk brn dead oil stn, no fluor
LM; lt to med brn, foss - oolitic, most well cem, poor interpart por, dull yel fluor, no vis stn, ns.
LM; off wh, tan, foss, abnt med/lrg pellets and ooids, soft chalky mtx ip, trc lt brn live oil stn, poor vis interpart por, lt yel fluor, no odor
LM; tan to lt brn, scat well cem foss, occ oolites/pellets, most dense, no vis por, dull yel fluor, ns.
LANSING 'G' 3223(-1270)
LM; tan to cream, buff, fxln, scat poor p-p and interxln por, spotted med brn oil stn, v. faint odor, lt to rarely med yel, fluor, looks tite
LM; tan to buff, lt brn, oolitic to oolicastic, fair moldic por, some rextalized, rare vug por, no vis stn, v. spotted med yel fluor, quest. odor, no cut
LM; med brn, hd, micritic to litho, scat gy to brn cht, tite
SH; blk, platy, carb ip.
SH; med gy to gy grn, firm
LANS/KC 'H' 3266(-1313)
LM; off wh, tan, wh, hd, rarely foss, most micritic, hd, no vis por, no stn, ns.
LM; off wh, wh, foss - finely pelletal/oolitic, fair to poor interpart por, chalky soft mtx, few pcs. w/dk brn hvy oil stn/some gils, no live shows
SH; med gy, fiss
LM; wh, off wh, oolitic, small to med size molds, fair oomoldic por, much soft chalky mtx, rare spotted lt brn live oil stn - 98% barren of show, strong sulfur odor, v. dull to no fluor, most w/no cut
LM; lt to med brn, bcm dk brn, most dense, micritic to litho, hd, rare gy cht
SH; blk, dk gy, platy, smooth
LM; lt brn, tan, fxln, scat foss mat, most well cem, poor p-p por, trc med/dk brn stn, rare cse spar calc xtals, no fluor, no odor, looks tite
LM; lt brn, off wh, fxln, scat spar calc xtals, small vug por, fair oil odor, med yel fluor, fair cut, some chalky lmst w/brite fluor
4 Unit Incr.
TG, C1-C5
0.5
5
50
500
6 Unit Incr.
TG
C1
C2
C3
7 Unit Incr.
Shale
Chrom. Acting up -
Filament out
Change Extractor
Filter


WOB 32K
PP 750#
SPM 56
RPM 80
conn
DST #1
Arbuckle
3379' - 3414'
Corrected
Depths
CFS. at 3409'
CFS. at 3414'
conn
MudCo. Mud
Check at 3414'
Vis 49 Wt. 9.1
WL 8.0 Cl 5900
PH 10.5 LCM 3#
WOB 32K
PP 750#
SPM 56
RPM 70-75
conn
CFS. at RTD.
3400
3450
3500
SH; dk gy, rare blk, fiss
LM; tan to lt brn, rarely foss, most dense, some litho, no vis por, no fluor, no stn or odor, ns.
BASE KANSAS CITY 3385(-1432)
SH; rust red, sandy, v. soft, silty ip.
LM; med brn, hd, blocky, foss ip, occ pyr, tite
CHT; varic, wh, org, fresh, trc dead oil/gils
ARBUCKLE 3402(-1449)
DOL; tan to lt gy, finely rhombic, poor interxln with rare vug por, occ pyr, rare spotted stn
DOL; off wh, tan, med rhombic, well dev. interxln w/vug por, GSFO, much even lt brn to golden brn stn, v. gd odor, med to brite yel fluor, gd cut
DST #1: Arbuckle 3379' - 3414'
DOL; tan/lt brn, oil stained, v. gd odor, GSFO, most w/well dev. vug and interxln por, brite yel fluor, gd streaming cut
DOL; wh, off wh, med rhombic, spotted lt brn oil stn, SSFO, decr. shows, v. strong odor - poss sulfur, lt to med yel fluor, fair cut, interbdd grn clay/glau incl, minor off wh/tan cht
DOL; wh, tan, med rhombic, lt brn spotted oil stn, SSFO, well dev. vug and interxln por, med yel fluor, strong odor - poss. sulfur, fair cut
DOL; wh, lmy, well cem, scat wh cht, little/no vis por, occ glau, no stn, looks tite, trc grn to turquoise grn shale
DOL; wh to lt gy, med to csely rhombic, gd interxln w/vug por, soft chalky mtx ip, trc glau, lt yel min fluor only, barren, no stn or odor, ns.
RTD. 3475' at 8:30 AM. 11/9/11
LTD. 3474'
Superior Well Services DIL, NEU/DEN w/PE, Microlog
NOTE: This log was shifted upward by 1' to 2' for correlation purposes with the Superior LOGS.
Turned off Chromatograph
TG
TG C1-C5
0.5
5
50
500
2 Unit Incr.
18 Unit Incr.
SHOW
50 Unit Incr.
Poss. Show
BU/Trip Gas/Oil in Mud
Recycle
20 Unit Incr.
POSS. SHOW



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb,LLC**

PO Box 838
Lawrenceville IL 62439

ATTN: George Payne

Kroutwurst #19

34-16s-11w Barton,KS

Start Date: 2011.11.08 @ 16:41:31
End Date: 2011.11.09 @ 02:33:31
Job Ticket #: 44872 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.11.16 @ 11:26:14

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Herman L Loeb,LLC

PO Box 838
Lawrenceville IL 62439

ATTN: George Payne

34-16s-11w Barton,KS

Kroutwurst #19

Job Ticket: 44872 **DST#: 1**

Test Start: 2011.11.08 @ 16:41:31

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:32:01
Time Test Ended: 02:33:31

Test Type: Conventional Bottom Hole (Initial)
Tester: Jeff Brown
Unit No: 44

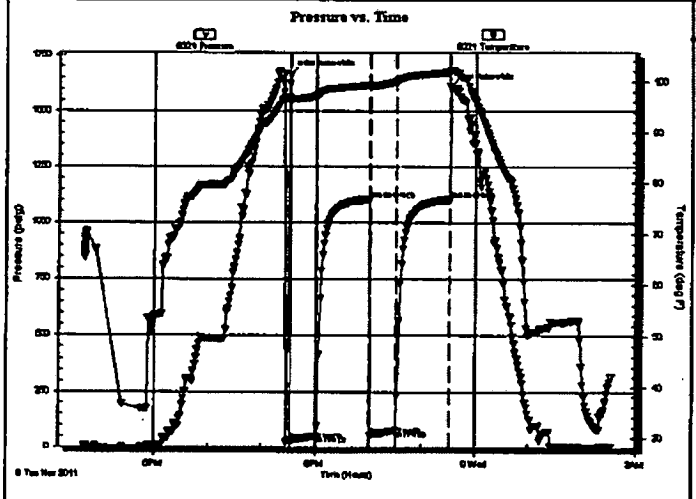
Interval: 3380.00 ft (KB) To 3415.00 ft (KB) (TVD)
Total Depth: 3415.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1953.00 ft (KB)
1943.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8321 **Inside**
Press@RunDepth: 77.07 psig @ 3383.00 ft (KB)
Start Date: 2011.11.08 End Date: 2011.11.09
Start Time: 16:41:32 End Time: 02:32:31

Capacity: 8000.00 psig
Last Calib.: 2011.11.09
Time On Btm: 2011.11.08 @ 20:31:31
Time Off Btm: 2011.11.08 @ 23:32:01

TEST COMMENT: IFP-Weak blow built to 3 1/4 in
ISI-Dead no blow back
FFP-Weak blow built to 3 1/4 in
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.05	96.85	Initial Hydro-static
1	31.51	96.59	Open To Flow (1)
30	53.80	97.22	Shut-In(1)
90	1105.32	99.32	End Shut-In(1)
90	57.40	99.07	Open To Flow (2)
120	77.07	100.00	Shut-In(2)
180	1103.05	101.79	End Shut-In(2)
181	1609.10	102.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCM 25%O75%M	0.31
31.00	HOCM 40%O60%M	0.15
33.00	Gassy Oil 10%G90%O	0.16
0.00	94-GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb,LLC

PO Box 838
Lawrenceville IL 62439

ATTN: George Payne

34-16s-11w Barton,KS

Kroutwurst #19

Job Ticket: 44872 **DST#: 1**

Test Start: 2011.11.08 @ 16:41:31

Tool Information

Drill Pipe:	Length:	3160.00 ft	Diameter:	3.80 inches	Volume:	44.33 bbl	Tool Weight:		2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	218.00 ft	Diameter:	2.25 inches	Volume:	1.07 bbl	Weight to Pull Loose:		59000.00 lb
					Total Volume:	45.40 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		21.00 ft					String Weight:	Initial	54000.00 lb
Depth to Top Packer:		3380.00 ft						Final	55000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		35.00 ft							
Tool Length:		58.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3358.00		
Shut In Tool	5.00			3363.00		
Hydraulic tool	5.00			3368.00		
Safety Joint	3.00			3371.00		
Packer	4.00			3375.00	23.00	Bottom Of Top Packer
Packer	5.00			3380.00		
Stubb	1.00			3381.00		
Perforations	2.00			3383.00		
Recorder	0.00	8321	Inside	3383.00		
Recorder	0.00	8737	Outside	3383.00		
Perforations	29.00			3412.00		
Bullnose	3.00			3415.00	35.00	Bottom Packers & Anchor
Total Tool Length:	**58.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb,LLC

PO Box 838
Lawrenceville IL 62439

ATTN: George Payne

34-16s-11w Barton,KS

Kroutwurst #19

Job Ticket: 44872 **DST#: 1**

Test Start: 2011.11.08 @ 16:41:31

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohmm	Gas Cushion Pressure:	psig		
Salinity:	5900.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	OCM 25%O75%M	0.310
31.00	HOCM 40%O60%M	0.152
33.00	Gassy Oil 10%G90%O	0.162
0.00	94-GIP	0.000

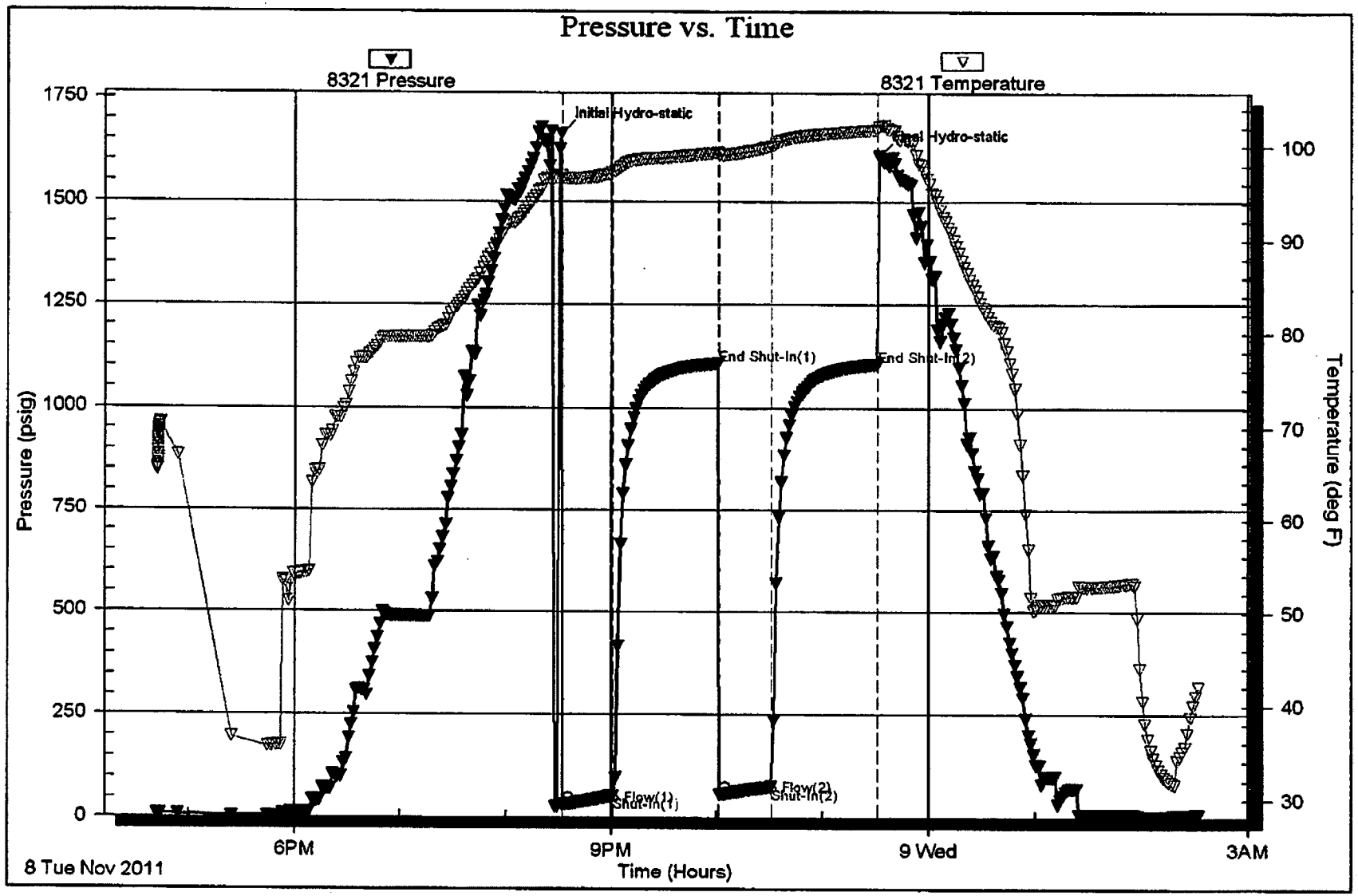
Total Length: 127.00 ft Total Volume: 0.624 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8321 Inside Herman L Loeb,LLC Kroutwurst #19 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44872 Printed: 2011.11.16 @ 11:26:16