KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1064423

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 # 6039
Name: L. D. Drilling, Inc.
Address 1: 7 SW 26TH AVE
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 6525
Contact Person: L. D. DAVIS
Phone: (620) 793-3051
CONTRACTOR: License # 33323
Name: Petromark Drilling, LLC
Wellsite Geologist: JIM MUSGROVE
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [x] 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 #:

08/24/2011	08/29/2011	08/29/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23697-00-00
Spot Description:
E2 - NW - NW - SE Sec. 22 Twp. 21 S. R. 13 [ ] East [x] West
2310 Feet from [ ] North / [x] South Line of Section
2110 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Stafford
Lease Name: H J L Well #: 1-22
Field Name: GATES
Producing Formation: NA
Elevation: Ground: 1878 Kelly Bushing: 1876
Total Depth: 3717 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 340 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: ppm Fluid volume: bbls
Dewatering method used:
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:**
- [ ] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** Deanna Garrisor **Date:** 10/11/2011

Side Two

1064423

Operator Name: L. D. Drilling, Inc. Lease Name: H J L Well #: 1-22

Sec. 22 Twp. 21 S. R. 13 ☐ East ☑ West County: Stafford

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

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

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

List All E. Logs Run:

☐ 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	340	A-CON	150	
SURFACE - CON'T	12.25	8.625	24	340	COMMON	150	1/4#CF,2%CC,3%Ge

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

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

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

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

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:

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

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	H J L 1-22
Doc ID	1064423

Tops

Name	Top	Datum
Heebner	3194	-1318
Toronto	3215	-1339
Douglas	3230	-1354
Brown Lime	3323	-1447
Lansing	3340	-1464
Base Kansas City	3563	-1687
Conglomerate Sand	3578	-1702
Viola	3608	-1732
Simpson Shale	3644	-1768

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 04721 A

DATE TICKET NO.

DATE OF JOB 8-25-11 DISTRICT Pratt	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER L.D. Drilling	LEASE H TL WELL NO. 1-22
ADDRESS	COUNTY Stafford STATE KS
CITY STATE	SERVICE CREW Orlando, Lawrence, Hunter
AUTHORIZED BY	JOB TYPE: CNW - 8 5/8 Surface

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
27283	1				
~~2344~~					
19841-19889	1				
19826-19860	1				

	DATE	AM/PM	TIME
TRUCK CALLED	8-25-11	AM	12:30
ARRIVED AT JOB		AM	3:00
START OPERATION		AM	3:30
FINISH OPERATION		AM	4:30
RELEASED		AM	5:00
MILES FROM STATION TO WELL			45

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
CP101	A Con Blend	SK	150		2700 00
CP100	Common	SK	150		2400 00
CC102	Cellflake	LB	75		277 50
CC109	Calcium Chloride	LB	846		388 30
CC200	Cement Gel	LB	282		70 50
CF153	Wooden Cement Plug 8 5/8	EA	1		160 00
CC131	Sugar	LB	50		100 00
E100	Pickup Mileage	MI	45		191 25
E101	Heavy Equipment Mileage	MI	90		630 00
E113	Bulk Delivery	TM	635		1015 20
CE200	Depth Charge 0-500	HR	1		1000 00
CE240	Cement Service Charge	SK	300		420 00
CE504	Plug Container	EA	1		250 00
5003	Service Supervisor	EA	1		125 00

SUB TOTAL 8119 42

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, L.P.

TREATMENT REPORT

Customer L. D. Drilling	Lease No.		Date 8-25-11
Lease HJL	Well # 1-22		
Field Order # 17351	Station Pratt	Casing 8 5/8 Depth 340	County Stafford State KS
Type Job Conv. 8 5/8 Surface	Formation		Legal Description 22-21-13

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft	15 sks	Acid Mud Flush 250	RATE	PRESS	ISIP
Depth 340	Depth	From	To 150 sks	Pre Pad Common 175	Max		5 Min.
Volume 21.6	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush 20.6	Gas Volume		Total Load

Customer Representative J. M.			Station Manager Dave Scott				Treater Steve Orlando					
Service Units	19823	19845	19728	19826	19860							
Driver Names	Orlando	Lawrence		Hunter								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30AM					On location - Safety Meeting
					Run 351. 8 5/8 Casing
					Casing On Bottom
					Break Circ w/ Rig
3:55	150		36	4	Mix 150 sks Mid Con 3% cc 12.6#
4:10	150		36	4	Mix 150 sks Common @ 15#
					Shut Down - Release Plug
4:25	0		0	4	Start H2O Displacement
4:27	200		10	4	Cement To Surface
4:30AM	200		20.6	4	Plug Down
					Job Complete
					Circulated Thru Job
					Circulated 10 bbls Cement To Pit

Taylor Printing, Inc. 620-672-3656

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 04814 A

22-21S-13W

DATE TICKET NO.

DATE OF JOB 8-29-11 DISTRICT Pratt, Kansas	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER L. D. Drilling, Incorporated	LEASE H J L WELL NO 1-22
ADDRESS	COUNTY Stafford STATE Kansas
CITY STATE	SERVICE CREW C. Messick; M. Mattal; J. McCastley
AUTHORIZED BY	JOB TYPE: C.N.W. - Plug To Abandon

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
37,216	1				
19,903-19,905	1				
19,831-19,862	1				

		TIME
TRUCK CALLED	DATE 8-29-11 AM (PM)	4:00
ARRIVED AT JOB	AM (PM)	6:00
START OPERATION	AM (PM)	7:50
FINISH OPERATION	AM (PM)	8:50
RELEASED	8-29-11 AM (PM)	9:15
MILES FROM STATION TO WELL		45

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
P	CP103	60/40 Poz Cement	sk	150		1,800 00
P	CC200	Cement Gel	Lb	258		64 50
P	E100	Pickup Mileage	mi	45		191 25
P	E101	Heavy Equipment Mileage	mi	90		630 00
P	E113	Bulk Delivery	tm	290		464 40
P	CE201	Cement Pump: 501 Feet To 1,000 Feet	hrs	4		1,200 00
P	CE240	Blending and Mixing Service	sk	150		210 00
P	S003	Service Supervisor	hrs	8		175 00

SUB TOTAL $ 3,740 00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: C. Messick

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, L.P.

TREATMENT REPORT

Customer: L.D. Drilling, Incorporated	Lease No.	Date: 8-29-11	
Lease: HJL	Well #: 1-22		
Field Order #: 4814	Station: Pratt, Kansas	Casing: 4½ Drill Pipe (x-Hole)	Depth	County: Stafford	State: Kansas
Type Job: C.N.W. - Plug To Abandon	Formation	Legal Description: 22-21S-13W	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size: 4½ Drill Pipe	Shots/Ft	150 sacks 60/40 Poz with 4% Gel	Acid	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad: 13.8 Lb/Gal., 6.12 Gal./Sk., 1.43 Cu. Ft./Sk.	Min		10 Min.
Max Press	Max Press: 350 P.S.I.	From	To	Frac	Avg		15 Min.
Well Connection: X-Hole	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush: Fresh Water	Gas Volume		Total Load

Customer Representative: Jim Nichols | Station Manager: David Scott | Treater: Clarence R. Messick

Service Units	37,216	19,903	19,905	19,831	19,962						
Driver Names	Messick	Mattal		McCaskey							

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					Trucks on location and hold safety meeting.
					1st Plug T.D. 720 Feet - 50 sacks cement
7:50		350		5	start Fresh water Pre-Flush.
		350	8	5	Start mixing 50 sacks 60/40 Poz cement.
7:55		150	20	5	Start Fresh water Displacement.
		-0-	24		Stop pumping.
					2nd Plug 370 Feet - 50 sacks cement
8:06		250		5	Start mixing 50 sacks 60/40 Poz cement.
		100	12	5	Start Fresh Water Displacement.
8:11		-0-	13		Stop pumping.
					3rd Plug 60 Feet - 20 sacks cement
		50		3	Start mixing cement
8:30		-0-	5		cement circulated to surface. Stop pumping.
		-0-	7	3	Plug Rat Hole.
					Wash up pump truck.
9:15					Job Complete.
					Thank You.
					Clarence, Mike, Jeffery

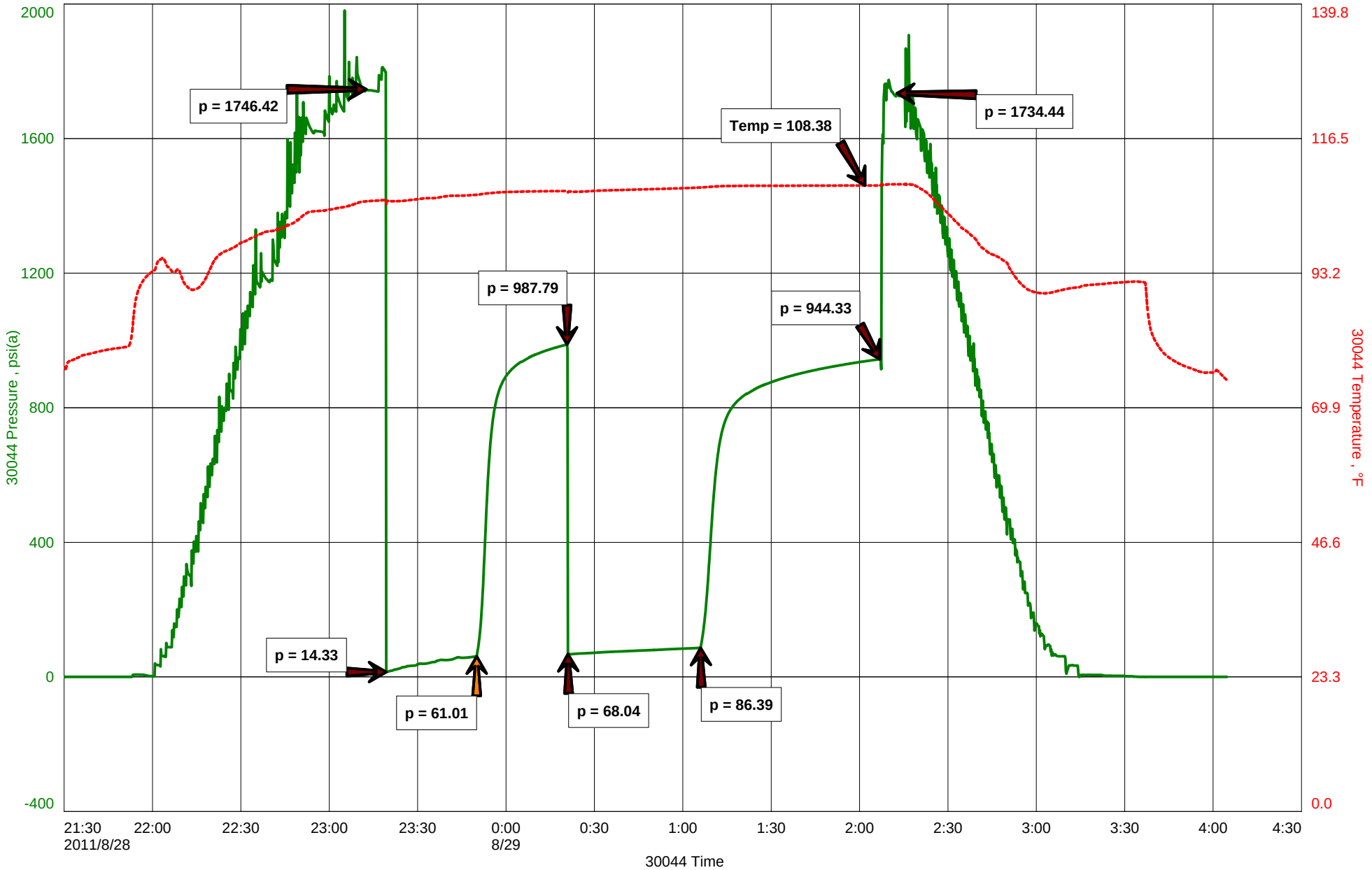
10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

L.D. DRLG
DST#1 3543-3600 CONG.
Start Test Date: 2011/08/28
Final Test Date: 2011/08/29

HJL #1-22
Formation: DST#1 3543-3600 CONG.
Pool: WILDCAT
Job Number: M202

HJL #1-22



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	L.D. DRLG	Job Number	M202
Well Name	HJL #1-22	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3543-3600 CONG.	Well Operator	L.D. DRLG
Surface Location	SEC.22-21S-13W STAFFORD CO.KS.	Report Date	2011/08/28
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JIM MUSGROVE
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL
Formation	DST#1 3543-3600 CONG.
Test Purpose (AEUB)	Initial Test

Start Test Date	2011/08/28	Start Test Time	21:30:00
Final Test Date	2011/08/29	Final Test Time	04:05:00
		Well Fluid Type	01 Oil

Gauge Name	30044
Gauge Serial Number	

Test Results

Remarks

RECOVERED:
40' DM 100% MUD
121' GMW 1% GAS, 69% WTR, 30% MUD
161' TOTAL FLUID

CHLOR: 19,000PPM
PH:7.5
RW: .36 @ 70 DEG

TOOL SAMPLE: 100% WTR

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET

FILE: HJL1-22DST1

TIME ON: 2130 (8/28)

TIME OFF: 0405 (8/29)

Company L.D. DRLG — Lease & Well No. HJL #1-22

Contractor PETROMARK RIG 2 — Charge to L.D. DRLG

Elevation 1878 GL EST Formation CONG. Effective Pay ____ Ft. Ticket No. M202

Date 08/2382011 Sec. 22 Twp. 21 S Range 13 W County STAFFORD State KANSAS

Test Approved By JIM MUSGROVE — Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3543 ft. to 3600 ft. Total Depth 3600 ft.

Packer Depth 3538 ft. Size 6 3/4 in. — Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3543 ft. Size 6 3/4 in. — Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 3532 ft. — Recorder Number 30044 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3597 ft. — Recorder Number 13386 Cap. 3,875 P.S.I.

Below Straddle Recorder Depth ____ ft. — Recorder Number ____ Cap. ____ P.S.I.

Mud Type CHEM Viscosity 57 — Drill Collar Length 121 ft. I.D. 2 1/4 in.

Weight 9.6 Water Loss 10.8 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 4,300 P.P.M. — Drill Pipe Length 3397 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number N/A — Test Tool Length 25 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO — Anchor Length 57 (31'DP) ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: WSB, BUILT TO 3" (NO BB)

2nd Open: WSB AFTER 1½ MIN, INC. (NO BB)

Recovered 40 ft. of DM 100% MUD

Recovered 121 ft. of GMW 1% GAS, 69% WTR, 30% MUD

Recovered 161 ft. of TOTAL FLUID

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of CHLOR: 19,000 PPM

Remarks: PH: 7.5

RW: .36 @ 70°

TOOLSAMPLE:

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 11:30 P.M. A.M. P.M. Time Started Off Bottom 2:15 A.M. A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure ..... (A) 1746 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 14 P.S.I. to (C) 61 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 988 P.S.I.

Final Flow Period ..... Minutes 45 (E) 68 P.S.I. to (F) 86 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 944 P.S.I.

Final Hydrostatic Pressure ..... (H) 1734 P.S.I.

James C. Musgrove
Petroleum Geologist
Office (620) 588-4250 · 212 Main St. · P.O. Box 215 · Claflin, KS 67525 · Home (620) 587-3444

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling Inc.
LEASE HJL #1-22
FIELD GATES
LOCATION E/2-NW-NW-SE (2310' FSL & 2110' FEL)
SEC 22 TWSP 21 S RGE 13 W
COUNTY Stafford STATE Kansas
CONTRACTOR Petromark Drilling (rig # 2)
SPUD 8-24-2011 COMP 8-31-2011
RTD 3714 LTD -no Log-
MUD UP 2800 TYPE MUD chemical displaced

ELEVATIONS
KB 1876
DF
GL 1871
Measurements Are All From -KB-

CASING
SURFACE 8 5/8" @ 320'
PRODUCTION -none-

ELECTRICAL SURVEYS
-none-

SAMPLES SAVED FROM 3100 TO RTD
DRILLING TIME KEPT FROM 3100 TO RTD
SAMPLES EXAMINED FROM 3100 TO RTD
GEOLOGICAL SUPERVISION FROM 3150 TO RTD
GEOLOGIST ON WELL Jim Musgrove & Josh Austin

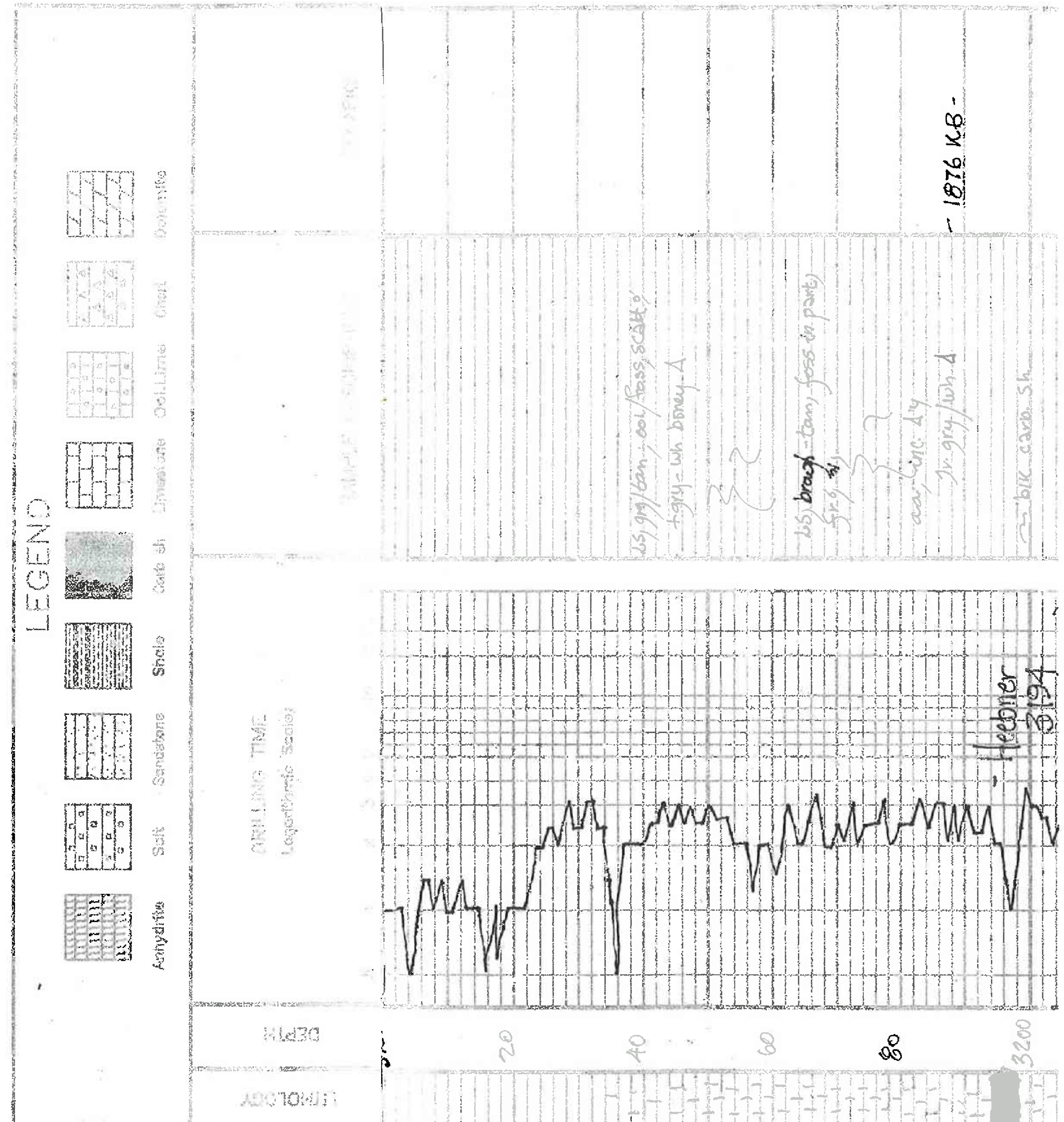
FORMATION TOPS	LOG	SAMPLES
Heebner	No Log	3194 - 1318
Toronto		3215 - 1339
Douglas		3230 - 1354
Brown Lime		3323 - 1447
Lansing		3340 - 1464
Base Kansas City		3563 - 1687
Conglomerate Sand		3578 - 1702
Viola		3608 - 1732
Simpson Shale		3644 - 1768
RTD	NO LOG	3714 - 1838

REMARKS

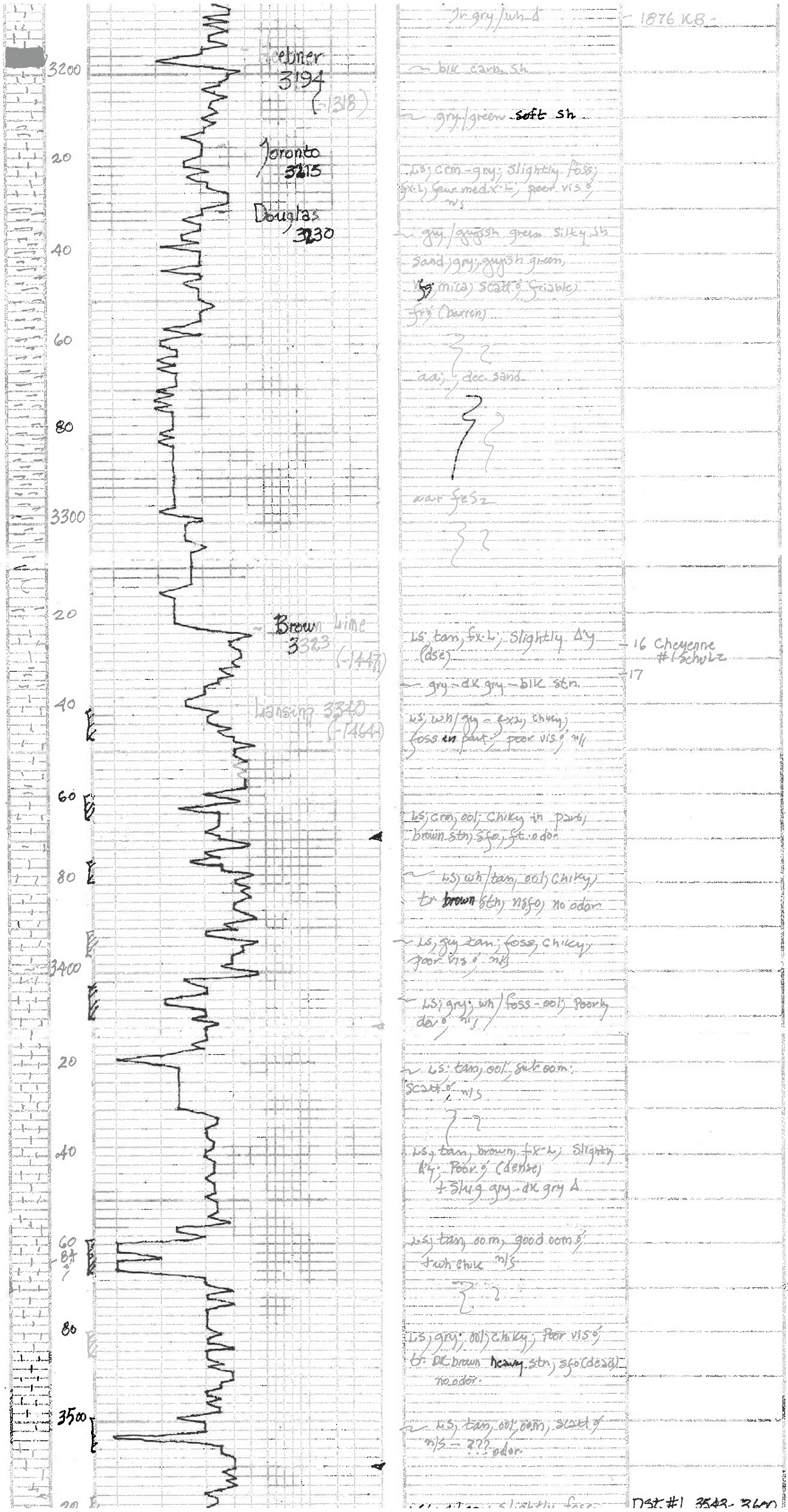
The HJL #1-22 was plugged and abandoned at the RTD 3714 - 1838.

Respectfully submitted,
James C. Musgrove & Joshua R. Austin
Petroleum Geologists

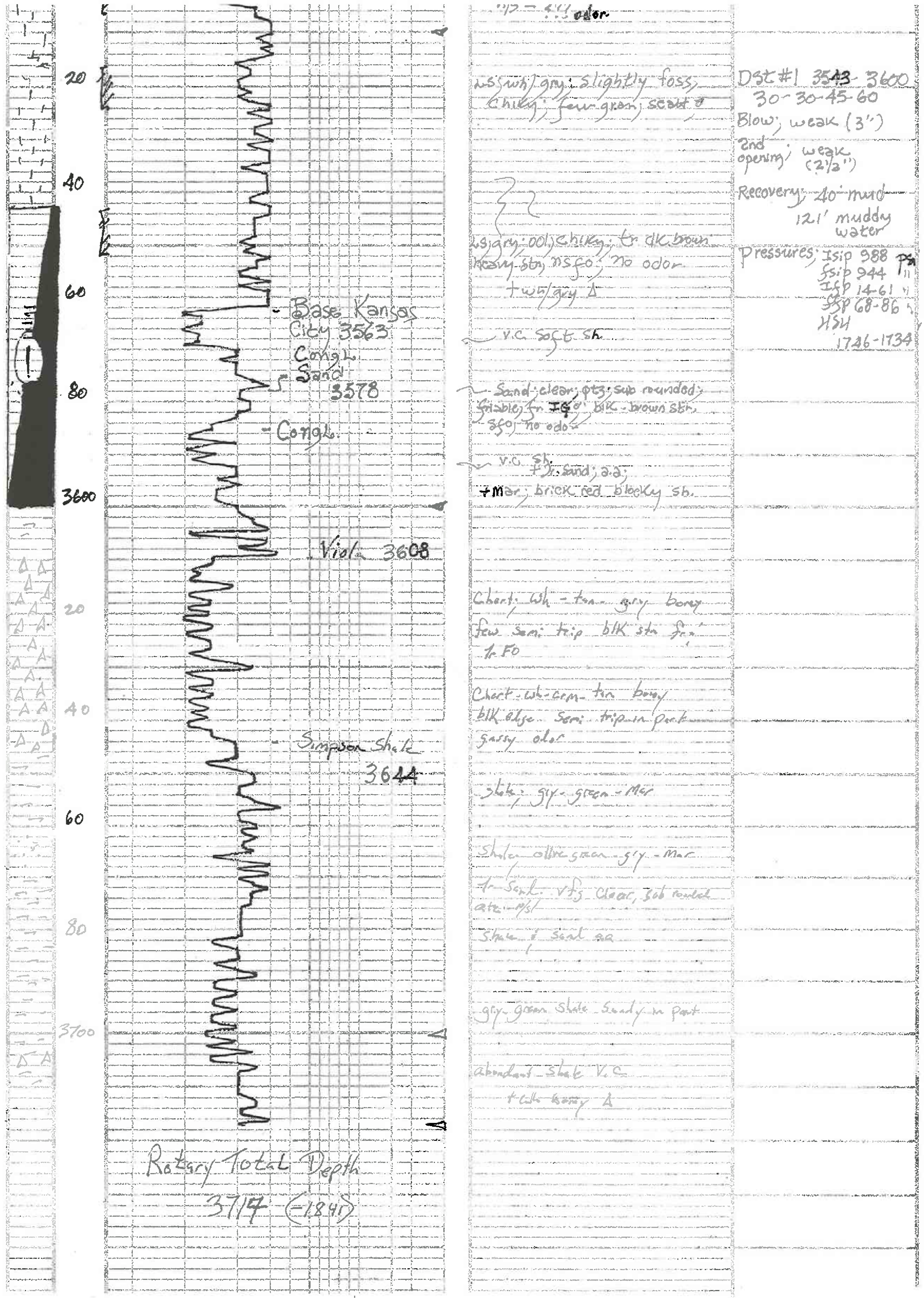
7505



LOG 7702



1876 KB
3200
20
40
60
80
3300
20
40
60
80
3400
20
40
60
80
3500
20
Heebner 3194 (-1318)
Toronto 3215
Douglas 3230
Brown Lime 3323 (-1447)
Lansing 3340 (-1464)
16 Cheyenne #1 Schulz
17
gry/green soft sh
blk carb sh
gry/grysh green silty sh
sand, gry, grysh green, mica, scatt, friable
aa; dec sand
LS: tan, fxl, slightly (dse)
gry - dk gry - blk stn.
LS: cm, ool, chlky in part, brown stn, sfo, ft odor
LS: wh/tan, ool, chlky, tr brown stn, nsfo, no odor
LS: gry, tan, foss, chlky, poor vis
LS: tan, ool, sub oom; scatt
LS: tan, brown, fxl, slightly, poor (dense)
LS: tan, oom, good oom, tr wh chlk
LS: gry, ool, chlky, poor vis, tr dk brown heavy stn, sfo (dead) no odor
DST #1 3548-3600


Base Kansas City 3563
Congl. Sand 3578
Congl.
Viola 3608
Simpson Shale 3644
Rotary Total Depth 3714 (-1841)
ls; wh; gry; slightly foss, chky; few grn; scatt
ls; gry; ool; chky; tr dk brown heavy stn; nsfo; no odor
+ wh/gry
v.c. soft sh.
Sand; clear; pts; sub rounded; friable; fr. blk-brown stn; sfo; no odor
v.c. sh.
+ sand; a.a.
+Mar; brick red blocky sh.
Chert; wh - tan - gry bony
few semi trip blk stn
Chert - wh-crm - tan bony
blk edge semi trip in part
gassy odor
shale; gry - green - Mar
Shale olive green gry - Mar
Shale, sand a.a.
gry green shale sandy in part
abundant shale V.C.
Dst #1 3543 3600
30-30-45-60
Blow; weak (3")
2nd opening; weak (2½")
Recovery; 40' mud
121' muddy water
Pressures; Isip 988 Psi
fsip 944
Ifp 14-61
fsp 68-86
HSH 1746-1734
20
40
60
80
3600
20
40
60
80
3700