



KANSAS CORPORATION COMMISSION 1064423
OIL & GAS CONSERVATION DIVISION

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:

- 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
 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 Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-185-23697-00-00
Spot Description: _____
E2 NW NW SE Sec. 22 Twp. 21 S. R. 13 East West
2310 Feet from North / South Line of Section
2110 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW 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 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
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garriso Date: 10/11/2011



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 <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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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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	8.625	24	340	A-CON	150	
SURFACE - CONT	12.25	8.625	24	340	COMMON	150	1/4#CF,2%CC,3%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	-			

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	H J L 1-22
Doc ID	1064423

Tops

Name	Top	Date
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



BASICSM
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 Platt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER L.D. Drilling				LEASE H 51				WELL NO. 1-20	
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	TRUCK CALLED	DATE 8-25-11	TIME 12:30	
27283	1					ARRIVED AT JOB	8:00 PM	3:00	
27283						START OPERATION	8:30 PM	3:30	
19840-19889	1					FINISH OPERATION	4:30 PM	4:30	
19826-19860	1					RELEASED	5:00 PM	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	Acid Blend	SK	150		2700.00
CP100	Common	SK	150		2400.00
CC102	Cellulose	LB	75		277.50
CC109	Calcium Chloride	LB	846		888.30
CC200	Cement Gel	LB	282		70.50
CE153	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	Ton	635		1015.20
CE200	Depth Charge 0-500	ea	1		1000.00
CE240	Cement Service Charge	SK	3.00		420.00
CE504	Plus Container	ea	1		250.00
S003	Service Supervisor	ea	1		175.00
				SUB TOTAL	8119.42

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Steve Delano THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>L. Williams</i>	Lease No.	Date <i>8-25-11</i>
Lease <i>HSL</i>	Well # <i>1-22</i>	
Field Order # <i>47921</i>	Station <i>P. 11</i>	Casing <i>2 5/8</i>
	Depth <i>340</i>	County <i>Stephens</i>
Type Job <i>C.N.W. 2 5/8 Surface</i>	Formation	Legal Description <i>22-21-13</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>2 5/8</i>	Tubing Size	Shots/Ft	<i>1500</i>	Acid <i>Hydrofluoric</i>	<i>212</i>	RATE	PRESS	ISIP
Depth <i>340</i>	Depth	From	To <i>1500</i>	Pre Pad <i>Common</i>	<i>1.5</i>	Max		5 Min.
Volume <i>21.6</i>	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 <i>20.6</i>		Gas Volume		Total Load

Customer Representative <i>Jim</i>	Station Manager <i>Dave Scott</i>	Treater <i>Steve (Johnson)</i>
Service Units <i>27223 19845/17289 15826/19860</i>		
Driver Names <i>U. L. J. L. H. H.</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:30 AM</i>					<i>(On location - 5-rod by hook)</i>
					<i>Run 2 5/8 casing</i>
					<i>Casing on bit</i>
					<i>Prime line w/ H₂O</i>
<i>3:55</i>	<i>150</i>		<i>56</i>	<i>11</i>	<i>mix 150000 acid @ 126"</i>
<i>4:10</i>	<i>150</i>		<i>36</i>	<i>11</i>	<i>mix 150000 cement @ 15"</i>
					<i>Shut Down - Release plug</i>
<i>4:25</i>	<i>0</i>		<i>0</i>	<i>4</i>	<i>Start H₂O Displacement</i>
<i>4:27</i>	<i>200</i>		<i>10</i>	<i>4</i>	<i>Control To Surface</i>
<i>4:30 AM</i>	<i>200</i>		<i>20.6</i>	<i>11</i>	<i>Plug Down</i>
					<i>Tests Complete</i>
					<i>Circulation This Job</i>
					<i>Completed 10:00 PM</i>



BASICSM
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

22-215-13W

DATE _____ TICKET NO. _____

DATE OF JOB 8-29-11		DISTRICT Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER L. D. Drilling, Incorporated				LEASE HJL		WELL NO. 1-22			
ADDRESS				COUNTY Stafford		STATE Kansas			
CITY STATE				SERVICE CREW C. Messick, M. Mattal, J. McCaskey					
AUTHORIZED BY				JOB TYPE: C.N.W. - Plug To Abandon					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37,216	1						8-29-11	AM	4:00
						ARRIVED AT JOB		AM	6:00
						START OPERATION		AM	7:50
19,903-19,905	1					FINISH OPERATION		AM	8:50
19,831-19,862	1					RELEASED	8-29-11	AM	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	str	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: 50 Feet To 1,000 Feet	hrs	4		\$ 1,200 00
P CE240	Blending and Mixing Service	str	150		\$ 210 00
P S003	Service Supervisor	hrs	8		\$ 175 00

SUB TOTAL
\$ 3,740 77

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <i>[Signature]</i> (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____

Customer D. Drilling, Incorporated	Lease No.	Date 8-29-11
Lease H 51	Well # 1-22	
Field Order # 4817	Station Pratt, Kansas	Casing 4 1/2 Drill Pipe (x-Hole)
Type Job C.N.W. - Plug To Abandon	Formation	County Stafford
		State Kansas
		Legal Description 22-215-13W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Aspd	RATE	PRESS	ISIP	
	4 1/2 Drill Pipe	150		60/40 Poz with				
Depth	Depth	From	To	Grd	Max		5 Min.	
				48 Gel				
Volume	Volume	From	To	Prod	Min		10 Min.	
				13.8 lb/gal, 6	1.2 Gal./kt, 1.43		15 Min.	1.15 kt
Max Press	Max Press	From	To	Frac	Avg			
	3500 PS							
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
x-Hole								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
				Fresh Water				

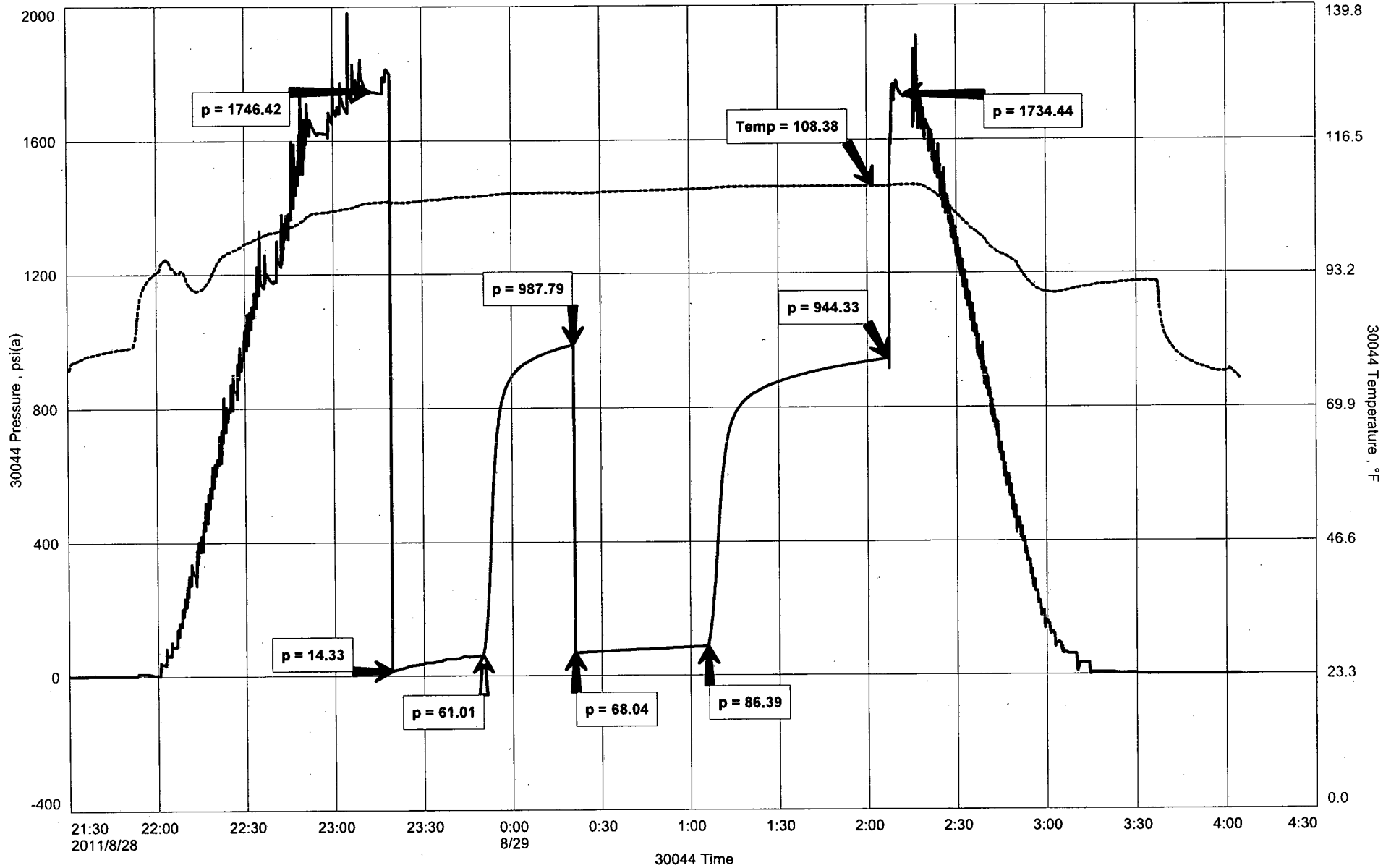
Customer Representative Jim Nichols	Station Manager David Scott	Treater Clarence R. Messick
Service Units 37216	19903	19905
Driver Names Messick	Mattal	McCaskey
19931	19962	

Time PM	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					Truck on location and hold safety meeting.
					1 st / Plug 20 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.
					2 nd / Plug 30 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.
					3 rd / 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, Mitre, Jeffery

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 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 1 1/2 MIN, INC. (NO BB)

Recovered <u>40</u> ft. of <u>DM 100% MUD</u>	
Recovered <u>121</u> ft. of <u>GMW 1% GAS, 69% WTR, 30% MUD</u>	
Recovered <u>161</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>CHLOR: 19,000 PPM</u>	Other Charges
Remarks: <u>PH: 7.5</u>	Insurance
<u>RW: .36 @ 70°</u>	
TOOLSAMPLE:	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.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.



Office: (820) 885-8250 212 20th St. • P.O. Box 216 • Clarita, KS 67039 Home: (620) 337-2464

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

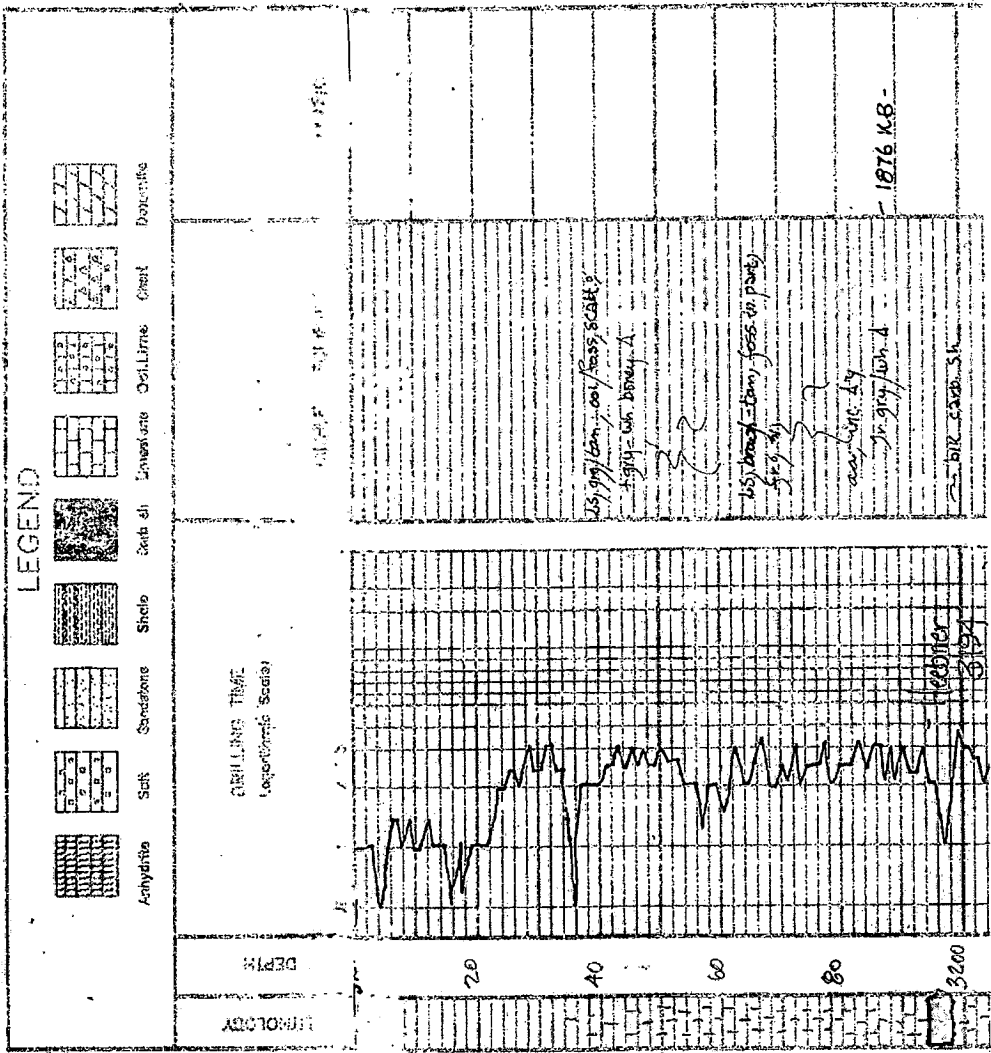
COMPANY LD Drilling Inc. ELEVATIONS
 LEASE HJL #1-22 KD 1876
 FIELD GATES QF
 LOCATION E/2-NW-NW-SE (2310' FSL) GL 1871'
(3,210' FSL)
 SEC 22 TWP 21^s RGE 13^w
 COUNTY Stafford STATE Kansas
 Measurements Are All From X.B.

CONTRACTOR Petromark Drilling (rig #2) MISSING
 SPUD 8-24-2011 COMP 8-31-2011 SIGN OFF 8/28/11 3:20
 RTD 3714 LTD no log PRODUCTION none
 MUD UP 2800 TYPE MUD chemical displaced
 ELECTRICAL SURVEYS
none

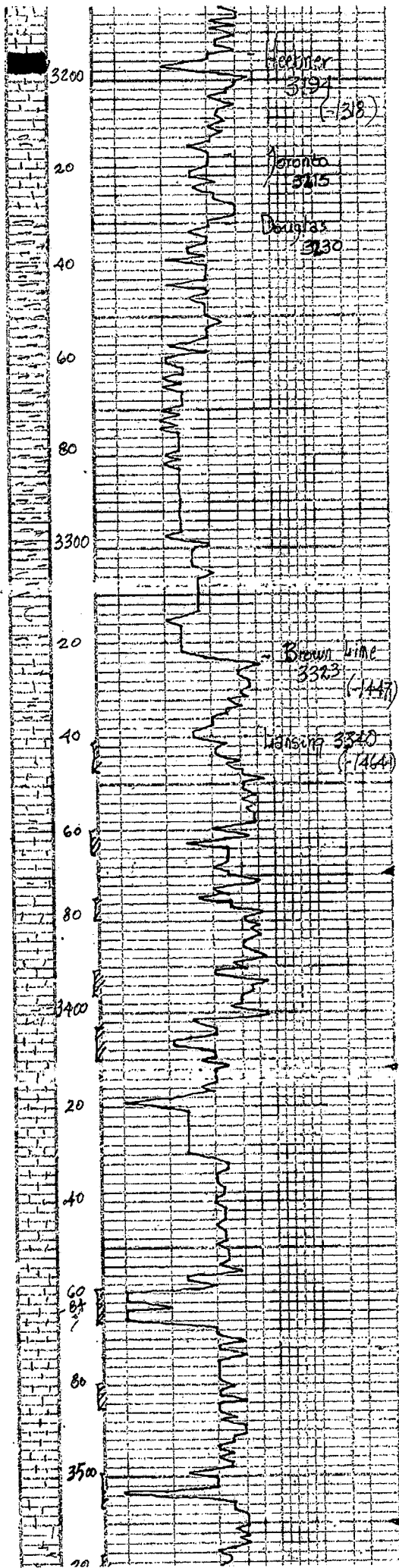
SAMPLES SAVED FROM 3100 TO
 DRILLING TIME KEPT FROM 3100 TO RTD
 SAMPLES EXAMINED FROM 3100 TO
 GEOLOGICAL SUPERVISION FROM 3150 TO
 GEOLOGIST ON WELL Jim Musgrove & Josh Austin

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		3694 - 1768
RTD	No log	3714 - 1838

REMARKS
 The HJL #1-22 was plugged and abandoned at
 T.D. RTD 3714 - 1838.
 Respectfully Submitted,
 James C. Musgrove, Petromark Geologist



LOG 7702



1876 KB-

1/2 gry./wh t

birr. calc. sh.

gry./green soft sh.

ls, con = gry; slightly foss;
foss. med. size; poor vis.

gry./greenish green silty sh.

sand, gray, grayish green.

ls, mica; scatt. & fissile.

foss. (Darien)

aa, dec. sand

war. fcs

ls, tan, fxl, slightly dy
(base)

16 Cheyenne
#1 schiz

17

gry - dk gry - blk. str.

ls, tan, con = cony, cherty
foss. in part; poor vis.

ls, con, ool, conky in part;
brown str, sp, etc. odor.

ls, tan, con, ool, conky

br. brown str, no odor

ls, tan, con, conky
poor vis.

ls, tan, con, conky, poorly
diss. in part.

ls, tan, ool, silty con.

scatt. in part

ls, tan, brown, fxl, slightly
dy; fossils (dense)

ls, tan, dk gry.

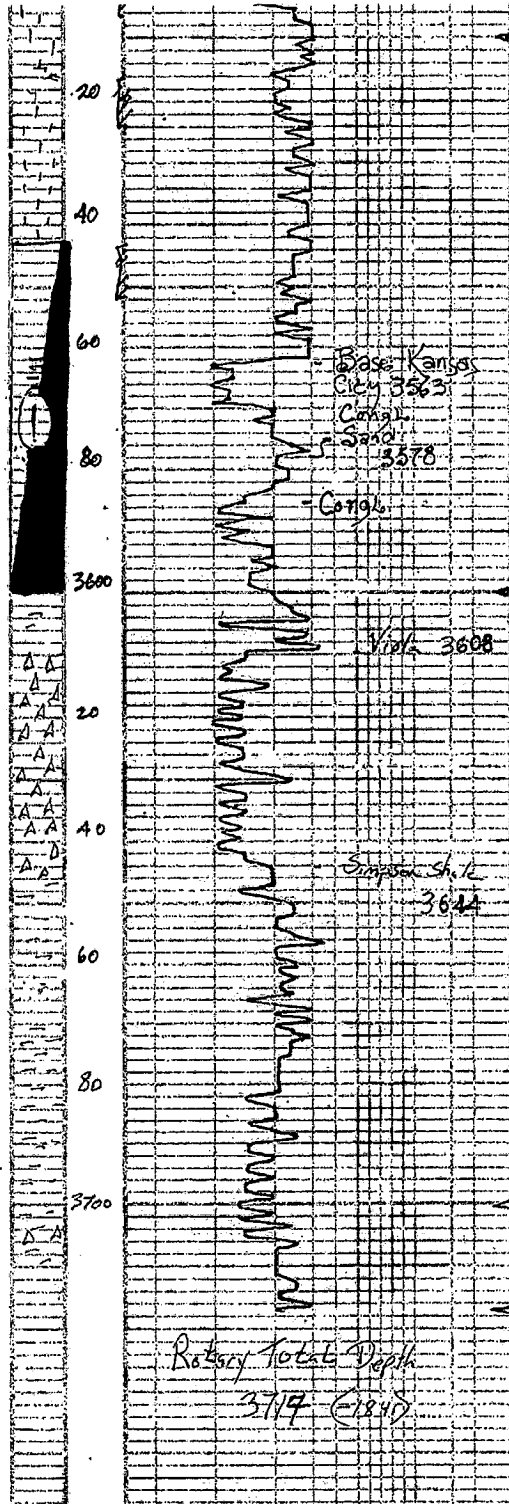
ls, tan, con, good cony,
foss. in part.

ls, tan, con, conky, poor vis.

br. dk brown heavy str, sp (dense)
no odor.

ls, tan, ool, con, scatt. &
foss. in part.

DK #1 3549-26m



172 - 174 odor

ws (w) gray, slightly foss;
chick, (faint green) sect 2

v. gray, odd, chiky, fr. dk brown
heavy sb, no. odor
+ w. gray

v.c. soft sh.

Sand, clear, ptz, sub rounded;
faint, fr. egg, blk. brown sb.
sp. no odor

v.c. sh.
+ Mar, brick red, blocky sb.

Chert wh - tan gray band
few sm. trip blk sh. fr.
+ FO

Chert blk - tan tan band
blk also. sm. trip in part
fatty, elec.

shale, gray-green - Mar.

shale, olive green - gy - Mar.
+ Sect. v. sh. clear, sub round
late 1/2

shale, dark sh.

gray-green shale - sandy in part

abundant shale v.c.
+ ch. gray A

DST #1 3543-3600
30-30-45-60
Blow; weak (3")
and opening; weak (2 1/2")
Recovery; 40' mud
121' muddy water

pressures; Isip 988 Pa
Isip 944 Pa
Isip 1461 Pa
Isip 68-86 Pa
HSH
17.26-1134

Rotary Total Depth
3717 (1817)