



1056019

Operator Name: Woolsey Operating Company, LLC Lease Name: RICKE Well #: 2
 Sec. 5 Twp. 35 S. R. 11 East West County: Barber

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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHASE	1863	-484
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DOUGLAS	3787	-2408
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MISSISSIPPIAN	4758	-3379
List All E. Logs Run:		SIMPSON	5245	-3866

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	14.75	10.75	32.75	234	60/40 POZ	230	2% gel, 3% cc
PRODUCTION	7.875	5.5	15.5	5159	60/40 POZ	50	4% gel, 1/4# Celoflake
PRODUCTION	7.875	5.5	15.5	5159	CLASS H	150	10% salt, 10% Gypsum, 6# Kolbond, 14#

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	4758-4810	2800 GAL 11% MIRA	4758-4810
		457,800 gal treated 2% KCl wtr, 166,300# 30/70 sd.	
		32,000# 16/30 sd & 17,500# 16/30 resin coated sd	4758-4810

TUBING RECORD:	Size: 2.875	Set At: 4849	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 11/15/2010	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbbs. 59	Gas Mcf 103	Water Bbbs. 240	Gas-Oil Ratio 1746

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 4758-4810
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	RICKE 2
Doc ID	1056019

All Electric Logs Run

Compensated Density/Comp Neutron PE
Dual Induction
Sonic
Micro

ALLIED CEMENTING CO., LLC. 041396

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

SERVICE POINT: Medicine Lodge
9-17-2010

DATE <u>9-16-2010</u>	SEC. <u>5</u>	TWP. <u>35</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>12:30 AM</u>
LEASE <u>Ricke</u>	WELL # <u>2</u>	LOCATION <u>281 + Kiowa Jet</u>		COUNTY <u>Barber</u>	STATE <u>Kansas</u>		
OLD OR NEW (Circle one) <u>NEW</u>		<u>2 east to busked Rd 9/10 N/W/S</u>					

CONTRACTOR VAI Ry #3

TYPE OF JOB Surface

HOLE SIZE 14 3/4" T.D. 233'

CASING SIZE 10 3/4" DEPTH 221'

TUBING SIZE 8 3/8" LI DEPTH 13'

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. 300 MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 20 3/4 freshwater

EQUIPMENT

PUMP TRUCK CEMENTER Paul Balding

471-302 HELPER Paul Balding

BULK TRUCK

364 DRIVER Taron Thimmesch

BULK TRUCK

DRIVER

OWNER Woolsey Operating

CEMENT AMOUNT ORDERED

230 sx Class A + 31 cc + 21 bel

COMMON <u>A</u>	<u>230 sx</u>	@ <u>15.45</u>	<u>3553.50</u>
POZMIX		@	
GEL	<u>5 sx</u>	@ <u>20.80</u>	<u>104.00</u>
CHLORIDE	<u>8 sx</u>	@ <u>58.20</u>	<u>465.60</u>
ASC		@	
Regulatory Correspondence		@	
Workovers		@	
Operations		@	
Drill + Comp		@	
Tests / Meters		@	
HANDLING	<u>243</u>	@ <u>2.40</u>	<u>583.20</u>
MILEAGE	<u>243 / 10 / 20</u>		<u>486.00</u>
			TOTAL <u>5192.50</u>

WELL FILE

REMARKS:

Run 221' 10 3/4 casing
with a 13' 8 3/8 landing joint
Break circulation mix + pump
230 sx Class A + 31 cc + 21 bel
Displace with 20 3/4 fresh water
leave 20' cement in pipe + shut in.
Cement did circulate

SERVICE

DEPTH OF JOB 234'

PUMP TRUCK CHARGE 1018.00

EXTRA FOOTAGE @

MILEAGE 20 @ 7.00 140.00

MANIFOLD @

TOTAL 1158.00

CHARGE TO: Woolsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

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

SALES TAX (If Any) _____

TOTAL CHARGES 1158.00

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME MIKE THOMP

SIGNATURE [Signature]

ALLIED CEMENTING CO., LLC. 042214

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

SERVICE POINT:
Medicine Lodge, KS

DATE <u>09 27 10</u>	SEC <u>05</u>	TWP <u>35s</u>	RANGE <u>11 W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Ricke</u>	WELL # <u>2</u>	LOCATION <u>US 281 E Rattle snake Rd, 2E,</u>	COUNTY <u>Barton</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>			<u>1/4 S, W/S</u>				

CONTRACTOR Val #3
 TYPE OF JOB Production Casing
 HOLE SIZE 7 7/8 T.D. 5440
 CASING SIZE 5K DEPTH 5159
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1600 MINIMUM —
 MEAS. LINE SHOE JOINT 33.90
 CEMENT LEFT IN CSG. 34'
 PERFS.
 DISPLACEMENT 123 B6Lg 2% KCL Water

OWNER Woolsey Oper.
 CEMENT
 AMOUNT ORDERED 90 SK 60:40:4% gal + 1/4" Flossal & 150 SK Class #4 + 10% sup + 10% Salt + 6% Kalsol + 1/4" Flossal + .8% FC 160 #
 13 gals Clapro
 COMMON A 54 SK @ 15.45 834.30
 POZMIX 36 SK @ 8.00 288.00
 GEL 3 SK @ 20.80 62.40
 CHLORIDE
 ASC
H 150 SK @ 16.75 2512.50
Gypsol 14 SK @ 29.20 408.80
Sart 16 SK @ 12.00 192.00
Kalsol 100 @ .89 89.00
Flossal 60 @ 2.50 150.00
FI-160 112.80 @ 13.30 1500.24
Clapro 13 B6Ls @ 31.30 406.90

EQUIPMENT
 PUMP TRUCK CEMENTER D. Felia
 #360-265 HELPER M. Thimesch
 BULK TRUCK
 #356-252 DRIVER R. Gilley
 BULK TRUCK
 # DRIVER

HANDLING 295 @ 2.40 708.00
 MILEAGE 295 / 10 / 15 442.50
 TOTAL 8306.64

REMARKS: 5% / 10% / 15% Operations

Pipe on Btm Break Circ, Plug Lat & Mouse holes w/ 40SK 60:40 cement Blend, Pump 50SK Scavenger Cement, Mix 150SK tail Cement, Stop Pump Wash Pump & Lines, Release Plug, Start Disp. w/ 2% KCL Water, See Steady increase in PST, Slow Rate, Bump Plug + 123 B6Lg total Disp, Release PST, Floats Did Hold

SERVICE
 DEPTH OF JOB 5159
 PUMP TRUCK CHARGE 2185.00
 EXTRA FOOTAGE @
 MILEAGE 15 @ 7.00 105.00
 MANIFOLD Head rental
 TOTAL 2270.00

CHARGE TO: Woolsey Oper.
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1- AFU Float Shoe @ 214.20
1- Catch down Plug Assy @ 163.80
27- Recip. Scrubbers @ 23.94 646.38
10- turbolizers @ 40.60 406.00

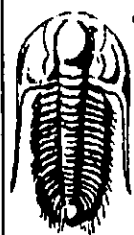
TOTAL 1430.38

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

SALES TAX (If Any)
 TOTAL CHARGES [scribble]
 DISCOUNT IF PAID IN 30 DAYS [scribble]

PRINTED NAME MIKE THARP
 SIGNATURE [Signature]

5K



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Company LLC

Ricke #2

125 N Market Ste 1000
Wichita KS 67202

5 35s 11w Barber

Job Ticket: 37440

DST#: 1

ATTN: Curtis Covey

Test Start: 2010.09.23 @ 19:53:30

GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 22:30:00

Time Test Ended: 06:59:45

Test Type: **Conventional Bottom Hole**

Tester: **Esak Hadley**

Unit No: **34**

Interval: **4668.00 ft (KB) To 4818.00 ft (KB) (TVD)**

Total Depth: **4818.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1379.00 ft (KB)**

1369.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: **8374** Inside

Press@RunDepth: **180.27 psig @ 4669.00 ft (KB)**

Start Date: **2010.09.23**

End Date:

2010.09.24

Start Time: **19:53:35**

End Time:

06:59:45

Capacity: **8000.00 psig**

Last Calib.: **2010.09.24**

Time On Btrm: **2010.09.23 @ 22:26:00**

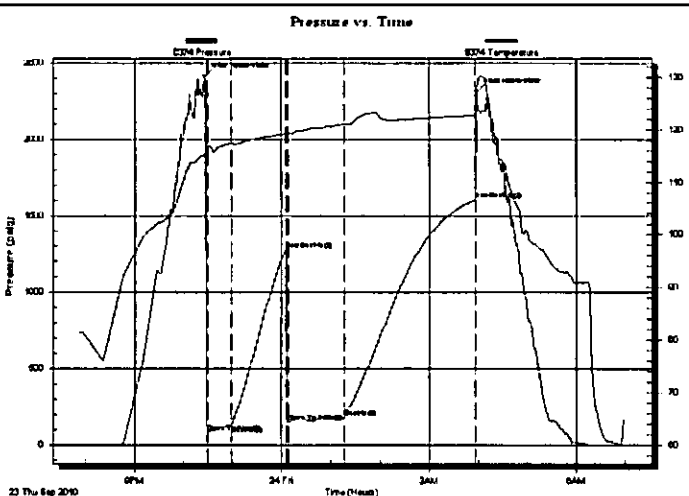
Time Off Btrm: **2010.09.24 @ 03:58:45**

TEST COMMENT: **IF Strong blow . BOB in 90 sec.**

ISI No blow .

FF Strong blow . BOB in 2 sec. GTS in 60 min.

FSI No blow .



PRESSURE SUMMARY

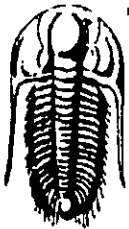
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2412.86	115.14	Initial Hydro-static
4	83.49	116.71	Open To Flow (1)
34	126.68	117.52	Shut-In(1)
100	1276.15	119.14	End Shut-In(1)
102	148.50	118.91	Open To Flow (2)
171	180.27	121.01	Shut-In(2)
331	1604.53	122.64	End Shut-In(2)
333	2312.39	125.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	O&GCWM 1%o 4%g 20%w 75%m	0.89
120.00	drilg mud	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company LLC

Ricke #2

125 N Market Ste 1000
Wichita KS 67202

5 35s 11w Barber

Job Ticket: 37440

DST#: 1

ATTN: Curtis Covey

Test Start: 2010.09.23 @ 19:53:30

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:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	O&GCWM 1%o 4%g 20%w 75%m	0.885
120.00	drlg mud	1.683

Total Length: 300.00 ft

Total Volume: 2.568 bbl

Num Fluid Samples: 0

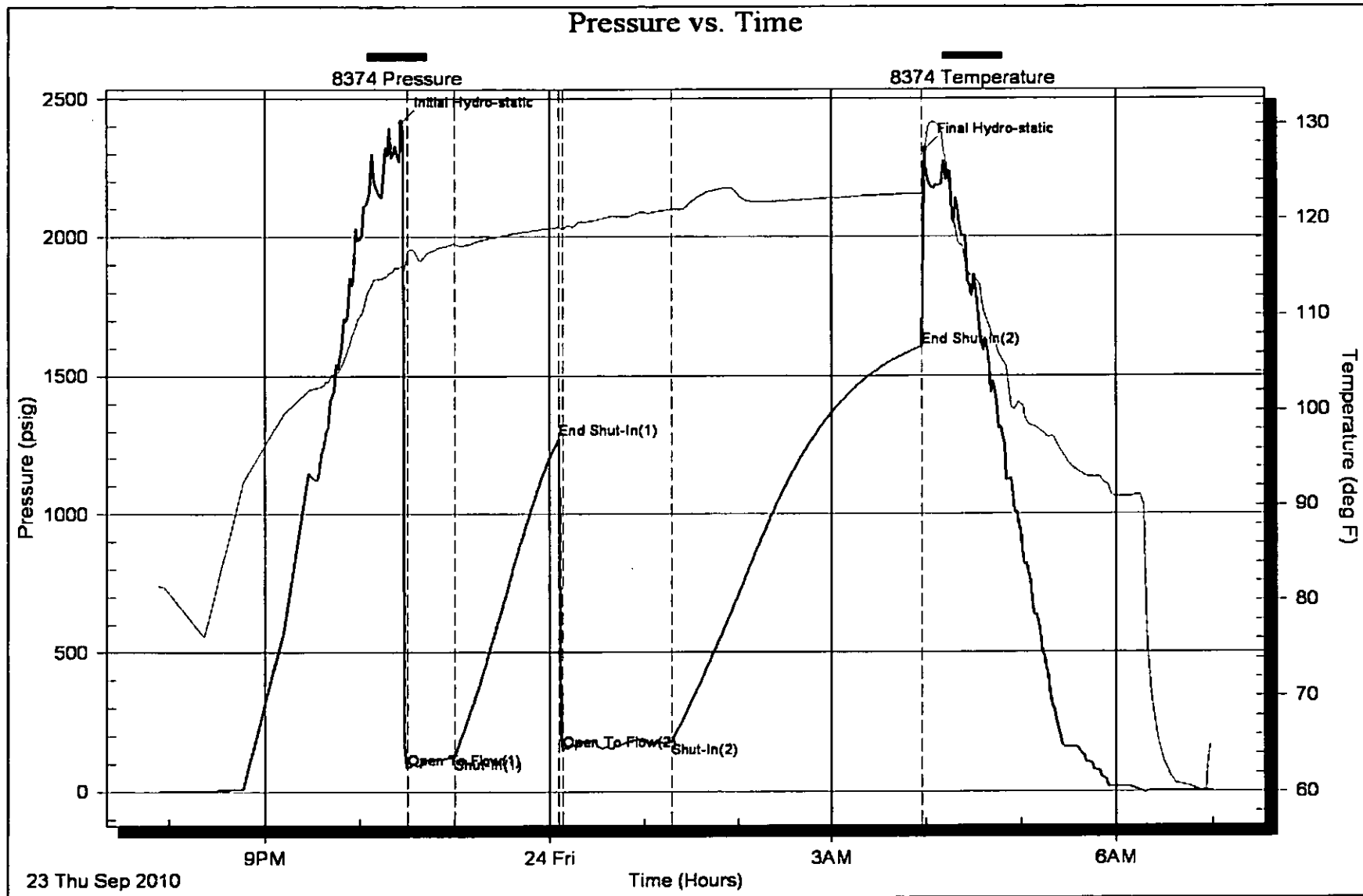
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Covey

The Well Watchers

Scale 1:240 (5"=100') Imperial

Well Name: RICKE #2
Location: Section 5 - Township 35 South - Range 11 West
Licence Number: 15-007-23,576 - 00-00 Region: Barber County, KS.
Spud Date: 16 September 2010 Drilling Completed: 26 September 2010
Surface Coordinates: 1,005' FNL & 1,010' FEL
(Approximately SW SW NE NE)
Bottom Hole
Coordinates:
Ground Elevation (ft): 1,369' K.B. Elevation (ft): 1,379'
Logged Interval (ft): 4,500' To: 5,440' Total Depth (ft): 5,440'
Formation: B / KC ----> McLish SS
Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: WOOLSEY OPERATING COMPANY, LLC
Address: 125 North Water, Suite 1000 Geologists:
Wichita, Kansas 67202 Dean Patisson
(316) 267-4379 Marc Summerville

GEOLOGIST

Name: Curtis Covey
Company: COVEY - The Well Watchers
Address: 6548 Bedford Circle wellsitgeo1@gmail.com
Derby, Kansas 67037
Office: (316) 776 - 0367 Cell: (316) 217-4679

KB: 1,379'

FORMATION TOPS

GL: 1,369'

Formation	Rotary Sample Depth (Datum)	E-log Depth (Datum)
Heebner SH	3,745' (-2,366')	3,749' (-2,370')
Toronto LS	3,769' (-2,388')	3,760' (-2,381')
Douglas Gp	3,791' (-2,412')	3,788' (-2,409')
Stark SH	4,469' (-3,090')	4,464' (-3,085')
Hushpuckney SH	4,501' (-3,122')	4,496' (-3,117')
B / KC	4,552' (-3,173')	4,546' (-3,167')
Pawnee LS	4,648' (-3,269')	4,652' (-3,273')
Cherokee Gp	4,701' (-3,322')	4,700' (-3,321')
Mississippian	4,763' (-3,384')	4,758' (-3,379')
Kinderhook Sh	5,037' (-3,658')	5,034' (-3,655')
Woodford Sh	5,079' (-3,700')	5,077' (-3,698')
Viola	5,101' (-3,722')	5,102' (-3,723')
Wilcox Sand	5,279' (-3,900')	5,277' (-3,898')
McLish Sand	5,414' (-4,035')	5,412' (-4,033')

RTD: 5,440' LTD: 5,437' ATD: 5,437'

* Plotted Drilling Time Top

Rotary sample depth is 2' - 4' low to E-logger's depth.

E-Loggers: Superior Well Services
Hays, Kansas

14-3/4" Hole
 16 Sept — Spud @ 6pm. Drill to 237'.
 Run 10-3/4" casing. Set casing
 @ 234'. Cemented w/ 230 sx
 60/40 Poz (2% gel+3%CC).
 [Allied]
 Cement did circulate.
 17 — Plug down @ 12:30pm. WOC.

7-7/8" Hole
 17 Sept — WOC. 7am @ 237'.
 Under surface casing @
 11:45am with PDC bit.
 18 — 7am @ 1,680'.
 19 — Bit Trip @ 2,356'. Resumed
 Drilling with Tri-Cone Bit.
 7am @ 2,435'.
 20 — 7am @ 3,183'.
 21 — Displace mud @ 3,419'.
 7am @ 3,850'.
 22 — 7am @ 4,401'.
 23 — 7am @ 4,719'.
 Start and

7-7/8" Hole
 24 Sept — Finish DST #1:
 MISS (4,668'-4,818')
 7am @ 4,818'.
 Resumed Drilling @ 9:35am.
 25 — 7am @ 5,090'.
 26 — 7am @ 5,370'.
 RTD (5,440') @ 4:33pm.
 Start &
 27 — Finish E-LOG.
 [Superior Well Services]

DST \$1 - MISS CHERT

Rotary Depth: 4,668' - 4,818'
 Logger's Depth: 4,664' - 4,814'

Recovery: 20P- GTS 60"
 120' Mud
 180' O&GcWMud (1%O,4%G,20%,75%M)

Recovery Water: Not Reported
 System Water: (5,000 ppm)

Reported Rw = Not Reported

IFP: 83# - 127# / 30"
 ISIP: 1,276# / 60"
 FFP: 148# - 180# / 60"
 FSIP: 1,605# / 140"
 123 deg F
 MH: 2,413# - 2,312#

Total Fluid: 300'

IF: Strong Blow. BOB in 90 seconds.
 ISI: No Blow back.
 FF: Strong Blow. BOB in 2 seconds. GTS in 60 minutes.
 FSI: No Blow back.

Trilobite Testing, Inc.
 Pratt, KS.

HOLE DEVIATION (237' - 5,440')

DEPTH / TVD	— INCLINATION	AZIMUTH	NORTH	SOUTH	EAST	WEST	DOGLEG deg/100'
237' /	— 0.75 (Surface)						
1,200' /	— 0.75						
1,699' /	— 1.00						
2,229' /	— 1.00						
2,356' /	— 1.00 (Bit Trip)						
2,793' /	— 0.50						
3,253' /	— 1.00						
3,850' /	— 1.00						
4,300' /	— 0.50						
4,818' /	— 0.75 (DST #1)						
5,440' /	— 0.75 (RTD)						

VAL ENERGY, INC.

Wichita, Kansas

Drilling Rig #3 - (620) 617-6541

Toolpusher: Greg Davidson (620) 200-7468

Mud Pump: National K-500
6-1/2" x 15 @ 52/54 SPM.

Pump Pressure: 850 / 900 psi @ standpipe.

On main hole (tri-cone), 75 - 80 RPM.

Weight Indicator Check @ 4,514':
String Weight calculates 112,297#.

Weight Indicator shows 110M; therefore,
weight indicator light by about 2 %.

Dry Wt of Collars: 51,212#
[533.46' x 96#/ft = 51,212#]
Drill Collars: 6-1/2" OD x 2-1/2" ID
Buoyancy Wt of Collars: 44,042#
[51,212# x .860 (9.2ppg) = 44,042#]
Available WOB: 37,436#
[44,042# x .85 = 37,436#]
Tension on drill string - 6,606#
[15% Design Factor]
to keep drill string straight.

Contractor reports running
38M/40M on bit

BIT RECORD

DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP
16 Sept	14-3/4"	JZ - RR	16 - 16 - 16	0' / 237'	237'	2.00	118.5
17 Sept	7-7/8"	JZ (PDC)	6 / 16's	237' / 2,356'	2,119'	30.75	68.9
19 Sept	7-7/8"	JZ QX-20	16 - 16 - 16	2,356' / 5,440'	3,086'	133.25	23.2

ROCK TYPES

POROSITY		Earthy		Dol 2		Arggrn		Salt		Gyp	
		Fenest		Dol		Arg		Sandy		Ls	
		Fracture		Gyp		Bent		Silt		Mrst	
		Inter		igne		Bit		Sil		Calc dol	
		Moldic		Lmst 2		Brecfrag		Sulphur		Sltstrg	
		Organic		Lmst		Calc		Tuff		Ssstrg	
		Pinpoint		Meta		Carb		Copper		Chalk	
		Vuggy		Mrst		Chtdk		Ooliticastic		New symbol	
				Salt		Chtlt		Oolite			
LITHOLOGY				Shale 3		Dol		Oolite		SHOW	
		Anhy		Shale 3		Feldspar		Sucrosic		Oil	
		Bent		Shale		Ferrpel		Dark specks		Spotted	
		Brec		Shcol		Ferr				Ques	
		Cht		Shgy		Glau		STRINGER		Dead	
		Clyst		Sltst		Gyp		Calc dol		Gas	
		Coal		Ss		Hvymin		Silty dol		Oil/gas	
		Granite wash		Till		Kaol		Anhy		Bed contact	
		Congl		Ss 2		Marl		Arg			
		Dol lmst				Minxl		Bent			
		Silty dol		MINERAL		Nodule		Coal			
		Calc dol		Mica		Phos		Dol			
				Anhy		Pyr		Dol ls			

ACCESSORIES

	Algae		Bryozoa		Echin		Oolite		Plant
	Amph		Cephal		Fish		Ostra		Strom
	Belm		Coral		Foram		Pelec		
	Bioclst		Spore		Fossil		Pellet		
	Brach		Crin		Gastro		Pisolite		

OTHER SYMBOLS

ACTIVITY

- Lost circulation
- Circulate for sample 2
- Circulate for samples



Rtd
Bit trip

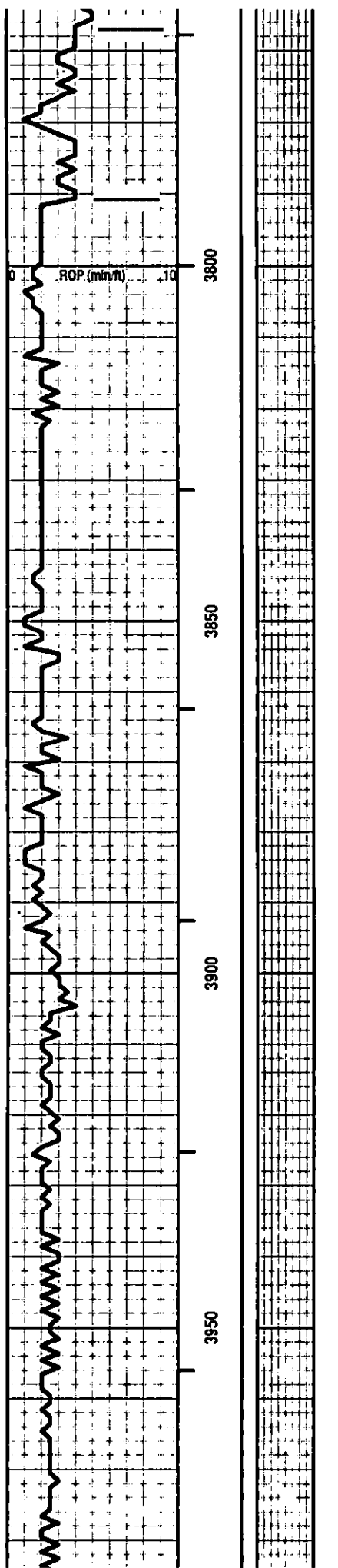
INTERVAL

- Core
- Dst
- Jammed core

EVENT

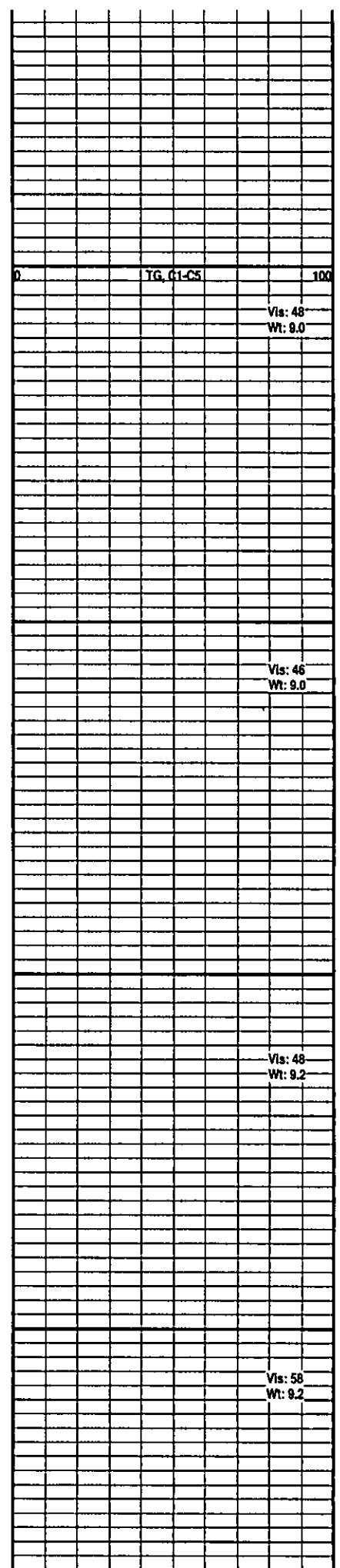
- Connection
- Rft
- Sidewall

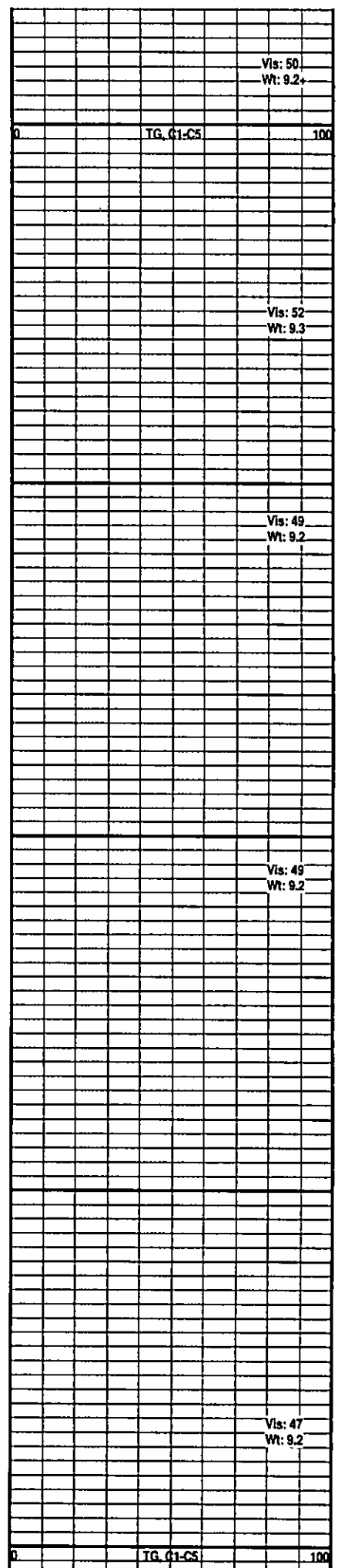
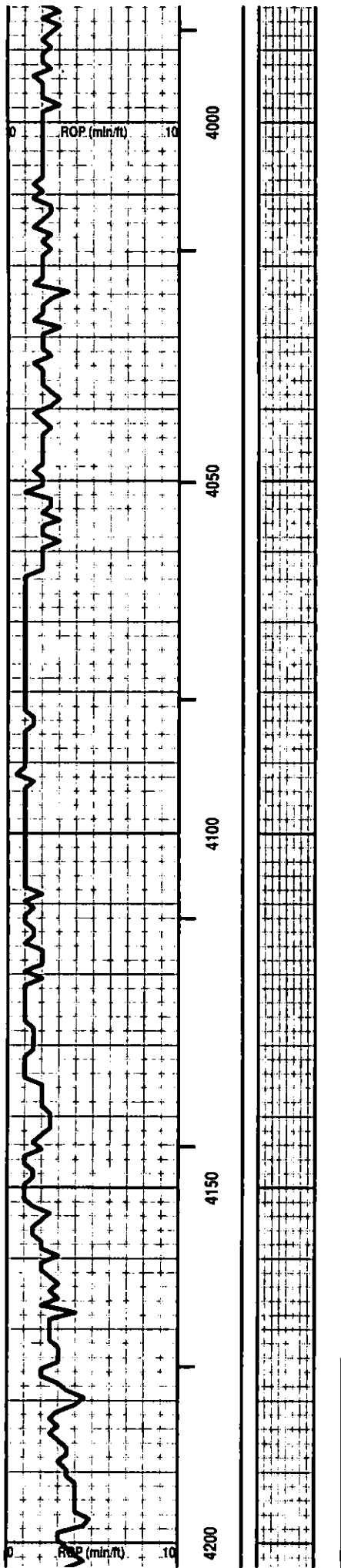
Curve Track 1 ROP (min/ft)	Depth	Porosity Type	Porosity	Shows	Lithology	Geological Descriptions	TG, C1-C5
	36 3650 3700 3750		24% 18% 12% 8%				TG (Units) _____ C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
							TG, C1-C5 MUD DISPLACED @ 3,419'
							Vis: 48 Wt: 8.8
							Vis: 48 Wt: 8.8
							Vis: 48 Wt: 8.9
						— HEEBNER SH 3,745' (-2,366')	

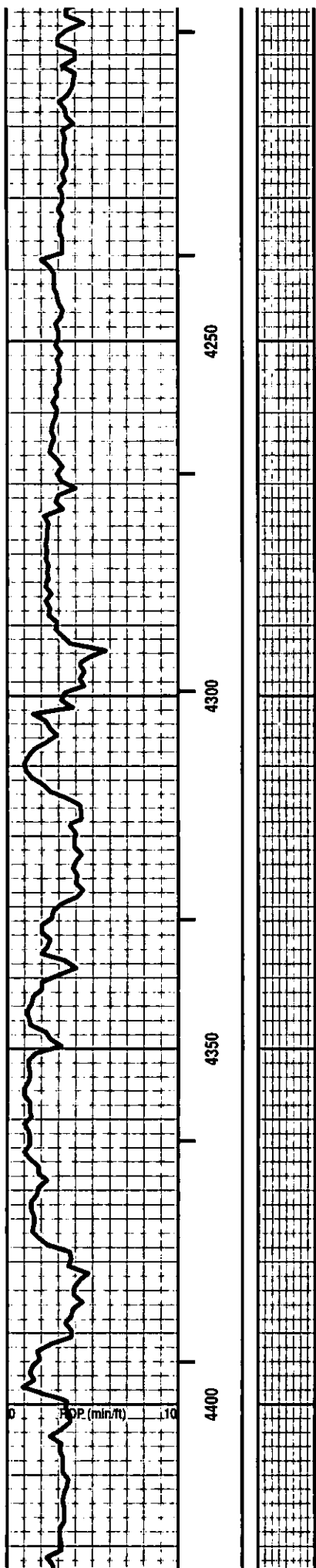


— TORONTO 3,769' (-2,388')

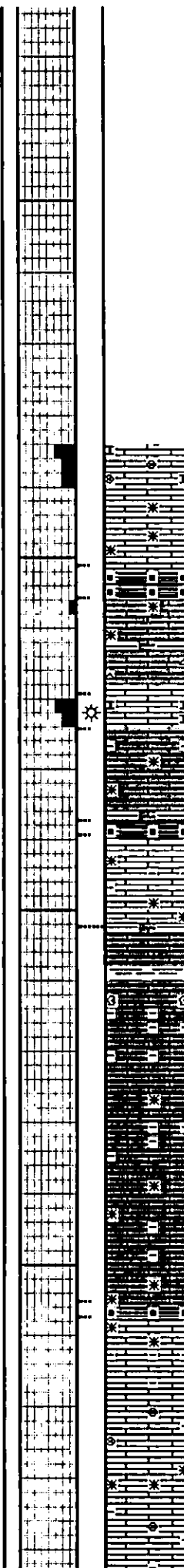
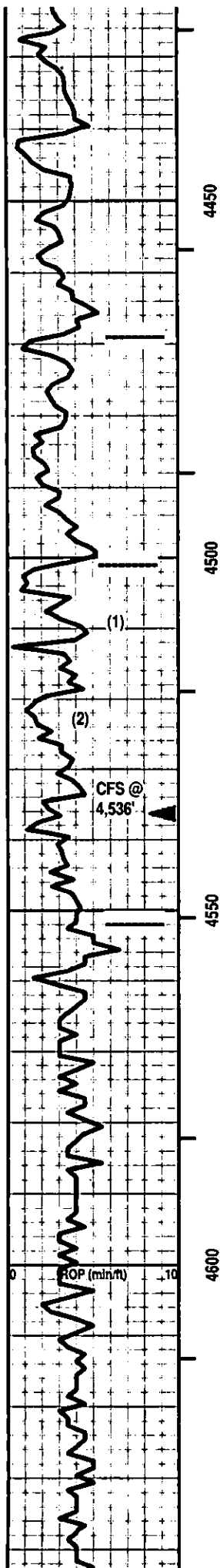
— DOUGLAS SH 3,791' (-2,412')







	Vis: 48 Wt: 9.2
	Vis: 49 Wt: 9.3
	Vis: 45 Wt: 9.3
	Hole Dev: 0.50 deg @ 4,300'
	Vis: 46 Wt: 9.3
	Vis: 45 Wt: 9.2
	Visw: 47 Wt: 9.3
100 units = 1% Gas	
TG, C1-C5	100
Dry Wt of Collars: 51,212# [533.46' x 96#/ft = 51,212#]	
Drill Collars: 6-1/2" OD x 2-1/2" ID Buoyancy Wt of Collars: 44,042# [51,212# x .860 (9.2ppg) = 44,042#]	



STARK SH 4,469' (-3,090')

LS - Lt/ Med Tan. some Off White. Sing/ tr Mot. XF- Micro-xln. xln & part por. few pcs: Micro-Oolites. tr subchalky in part. tr Re-xln. Firm. with depth. Tr to No vis por.

HUSHPUCKNEY SH 4,501' (-3,122')

SH - Black. Sing. carb. soft.

LS (1) - Tan. Sing. XF- Micro-xln. xln por. some Re-xln. some Interbedded Med Gray Sh. Firm. (tr CHERT - Tans/ Off White. Mot (speckled). Opaque. No tripolitic. No inclusions.) No/ tr vis por.

LS (2) - Tan/ Off White. Sing. Micro-xln. xln por. subchalky. partly Friable. No/ tr vis por. No/ odor. Spotted, yellow fluorescence. A/C, no free oil or gas. No stain. Weak Pos cut/residual. Weak Pos acid/residual.

LS - Similar to (1) above.

SH - Med Gray at top changing to: Black. Sing. carb. tr fissile.

LS - Tans. Sing. tr XF- Micro-xln. xln por. tr Re-xln. tr argil. mostly Firm. No/ tr vis por.

B / KC 4,552' (-3,173')

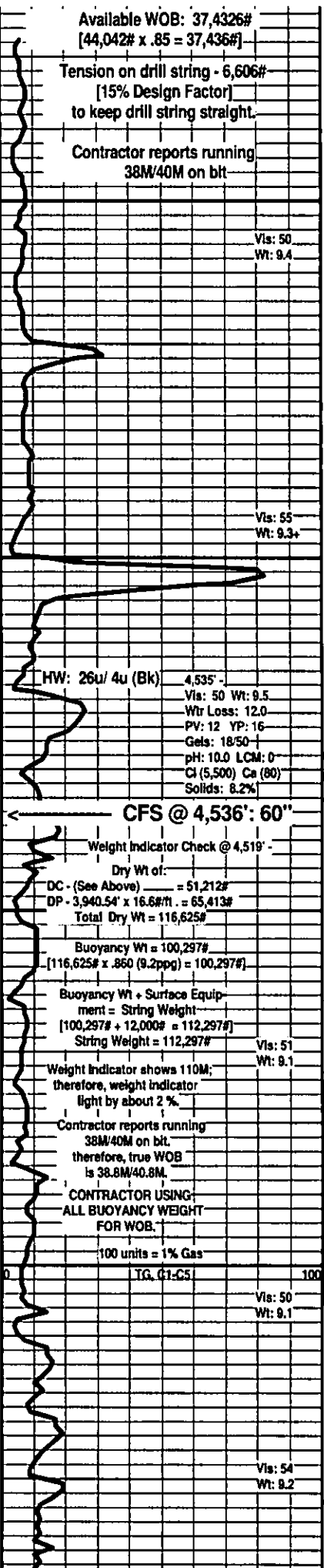
Interbedded & Intermixed LS & SH

LS - Tan/ Grays, rare Off White. Sing. Micro- / tr crypto-xln. xln por. some Re-xln. some argil. Firm. No/ tr vis por.

SH - Med/ Dark Grays, Black - carb. some Silvery Gray, some Greenish Gray. Sing. some Ls Interbedding / rare rubble.

SH - Black. Sing. carb. tr fissile.

LS - Tans/ some Lt Gray & tr Off White. Sing/ some Mot. XF- Micro-xln. xln por. some Re-xln. some argil/ shaly in part. few pcs Mico-Oolites. Firm. No/ tr vis por.



Available WOB: 37,4326#
[44,042# x .85 = 37,436#]

Tension on drill string - 6,606#
[15% Design Factor]
to keep drill string straight.

Contractor reports running
38M/40M on bit

Vis: 50
Wt: 9.4

Vis: 55
Wt: 9.3+

HW: 26u/ 4u (Bk) 4,535'

Vis: 50 Wt: 9.5
Wtr Loss: 12.0
PV: 12 YP: 16
Gels: 18/50
pH: 10.0 LCM: 0
Cl (5,500) Ca (80)
Solids: 8.2%

CFS @ 4,536' 60''

Weight Indicator Check @ 4,519' -

Dry Wt of:
DC - (See Above) = 51,212#
DP - 3,940.54' x 16.6#/ft. = 65,413#
Total Dry Wt = 116,625#

Buoyancy Wt = 100,297#
[116,625# x .860 (9.2ppg) = 100,297#]

Buoyancy Wt + Surface Equip-
ment = String Weight
[100,297# + 12,000# = 112,297#]
String Weight = 112,297#

Vis: 51
Wt: 9.1

Weight Indicator shows 110M;
therefore, weight indicator
light by about 2 %.

Contractor reports running
38M/40M on bit,
therefore, true WOB
is 38.8M/40.8M.

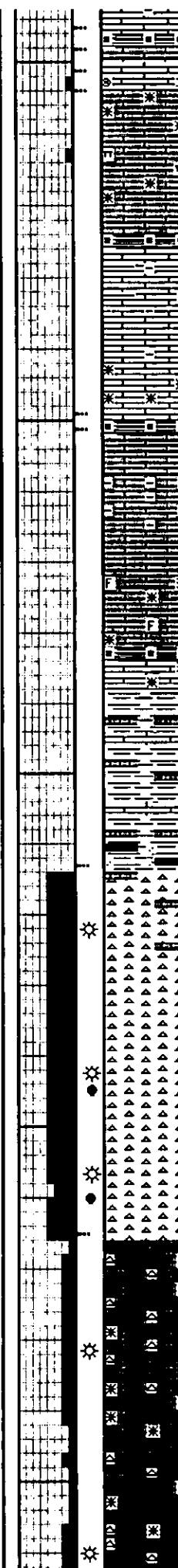
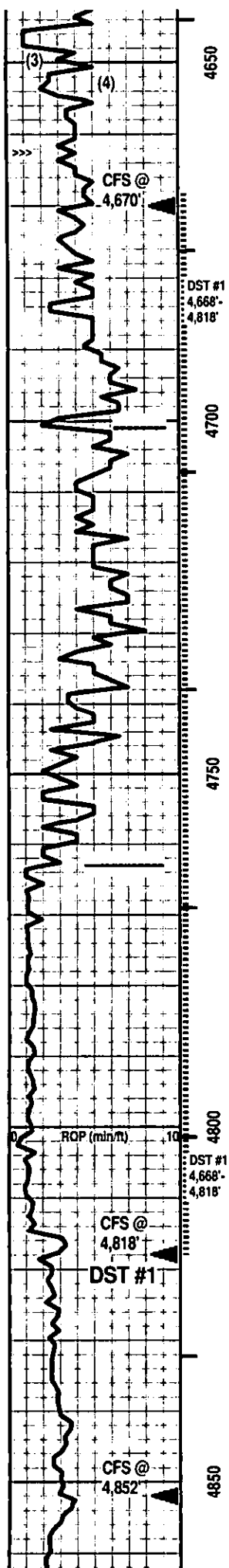
CONTRACTOR USING:
ALL BUOYANCY WEIGHT
FOR WOB.

100 units = 1% Gas

TG, C1-C5

Vis: 50
Wt: 9.1

Vis: 54
Wt: 9.2



SH - Black. Sing. Carb. Soft.
PAWNEE 4,648' (-3,269')
 LS (3) - Tan/ some Lt Gray, Sing/ some Mot. XF-/ some Micro-xln. xln por. some Re-xln. some argil/ shaly in part. No/ tr vis por.
 few pcs LS (4) - Tan/ tr Off White Micro-/Vf oolites & nodules. Tan to Off White matrix. tr subchalky. mixture of point & 'floating' particle contact. partly friable. No/ tr vis por.

Vis: 50
 Wt: 9.3

SH - Black, Carb. Sing. Soft.
 LS - Tan/ some Lt & Med Gray. Sing. Micro-/ XF-xln. xln por. Re-xln. tr argil/shale (some interbedded). mostly Firm. No/ tr vis por.

Vis: 48
 Wt: 9.3
 LCM: 1.5#

SH - Black, Carb. Sing. Soft
- CHEROKEE GP 4,701' (-3,322')
 Interbedded & Intermixed SH & LS
 LS - Lt & Med Tan/ some Lt Gray, Med Gray with depth. Sing/ tr Mot. XF-/ Micro-xln. xln por. some Re-xln. argil in part. tr fossil frags. some, minute limy frags. mostly Firm. mostly No/ tr vis por.

Vis: 51
 Wt: 9.3
 LCM: 2#

SH - Med/ Dark Gray, some Greenish Gray. some Black, carb, soft. tr pyritic. some limy streaks in part.

Vis: 62
 Wt: 9.3
 LCM: 3#

SH - Black Sing. carb. tr fissile.

SH - Grays. Sing. tr calc in part. some rubble with depth.
 Intermixed/ Interbedded LS similar to above.
 Add Siltstone - Pale Blue/ tr Greenish Blue. Sing. some highly limy. misc inclusions minute (pellets/ nodules/ rare fossil frags).
 few pcs SS at depth - Clear/ Bluish Green. Mot. Silt sized qtz grains. SR. Mod sort & sph. frosted luster. 'floating' grain contact in silty matrix. partly Firm. No/ tr vis por. minute, irregular brown blotches.

Vis: 50
 Wt: 9.2
 LCM: 5#

MISS 4,763' (-3,384')
 CHERT - Off White/ Pale Lt Gray. tr Semi-transparent/ Opaque. No/ few/ some lots misc fossil incl. tr to some Tripolitic. Faint/ Fair odor. spotted/ rare uniform yellow fluorescence. A/C, no free oil or gas. spotted/ rare uniform Med Brown stain. Pos cut & residual. Pos acid & residual. oil spots on wash water increasing with depth.

4,797 -
 Vis: 54 Wt: 9.0
 Wtr Loss: 10.4
 PV: 11 YP: 16
 Gels: 14/52
 pH: 10.0 LCM: 4#
 Cl (5,000) Ca (80)
 Solids: 4.7%

few pcs LS towards top- Tan/ some Lt Pale Gray. Sing. Micro-/ tr XF-xln. xln por. some Re-xln. some misc rubble. partly Firm. No/ tr vis por.

Vis: 50
 Wt: (.3)
 LCM: 5#

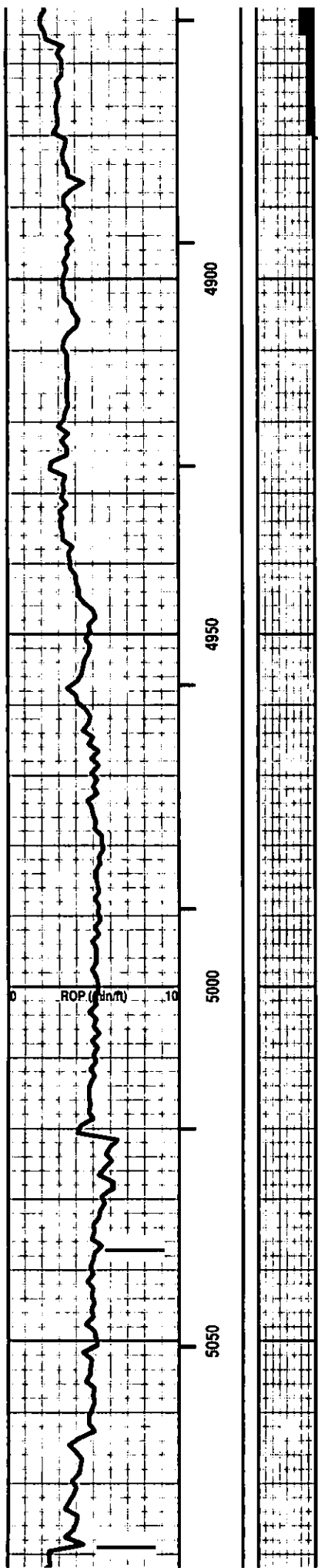
LS (Dol) - Tan/ Lt Gray. Sing. XF-/ Micro-xln. xln por. Re-xln. partly Firm. Chert as (5) below. No/ tr vis por

(T1 after DST #1) - 100 units = 1% Gas
 4,818' -
 Vis: 57 Wt: 9.4
 Wtr Loss: 12.4
 PV: 10 YP: 28
 Gels: 28/62
 pH: 9.0 LCM: 4#
 Cl (7,000) Ca (160)
 Solids: 7.4%

CHERT (4) - Off White/ tr Silvery Gray/ rare Tan. Mot/ Mixed. mostly Opaque to semitransparent. rare to mostly fair Spotted Tripolitic with Spotted Lt to Med Brown stain ?/ Faint odor. tr/ fair Spotted Uniform Yellow fluorescence. No free oil/ rare minute gas bubble. Stain as above (25% - 55%). Weak to Pos cut/ residual. Weak to Pos acid/ residual. some Oil spots on wash water.

<- CFS @ 4,818': 60" & DST #1
 After DST #1,
 729u
 Pulled 10 stands ... Tite.
 CHC: 90"
 Work Kelly (15")
 Checked Box (15")
 Hole Dev: 0.75 Deg
 DST #1
 Vis: 54
 Wt: 9.0
 LCM: 4#

<- CFS @ 4,852': 60"



Add: LS (Dol) - Lt/ some Med Gray. Increasing with depth. Sing. XF-Micro-xln. xln por. Firm. tr Chert similar to 5 above. No show. Firm. No/ tr vis por.

Dolomite (Calc) - tr Tan/ mostly Lt Gray, tr Med Gray. Sing. Re-xln. xln & tr sucrosic por. Silty in part. Massive. No/ tr vis por.

Dolomite (Calc) - Lt & Med Gray. Sing. Re-xln. xln sucrosic por. Silty in part. Massive. No/ tr vis por.

Add: Lt Gray limy streaks.

Add: Lt Gray limy streaks.

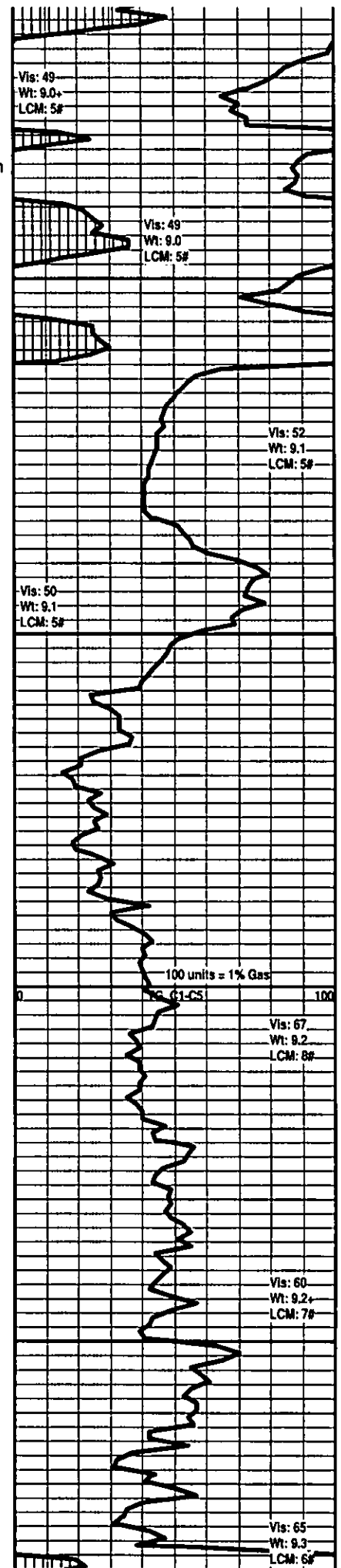
Dolomite (Calc) - Lt & Med Gray. Sing. Re-xln. xln sucrosic por. Silty in part. Massive. No/ tr vis por.

Add: Lt Gray limy streaks.

KINDERHOOK SH 5,037' (-3,658')

SH - Dark/ V Dark Gray, Greenish Gray. Sing/ tr Mot. Firm. tr calc in part.

WOODFORD SH 5,079' (-3,700')



Vis: 49
Wt: 9.0
LCM: 5#

Vis: 49
Wt: 9.0
LCM: 5#

Vis: 52
Wt: 9.1
LCM: 5#

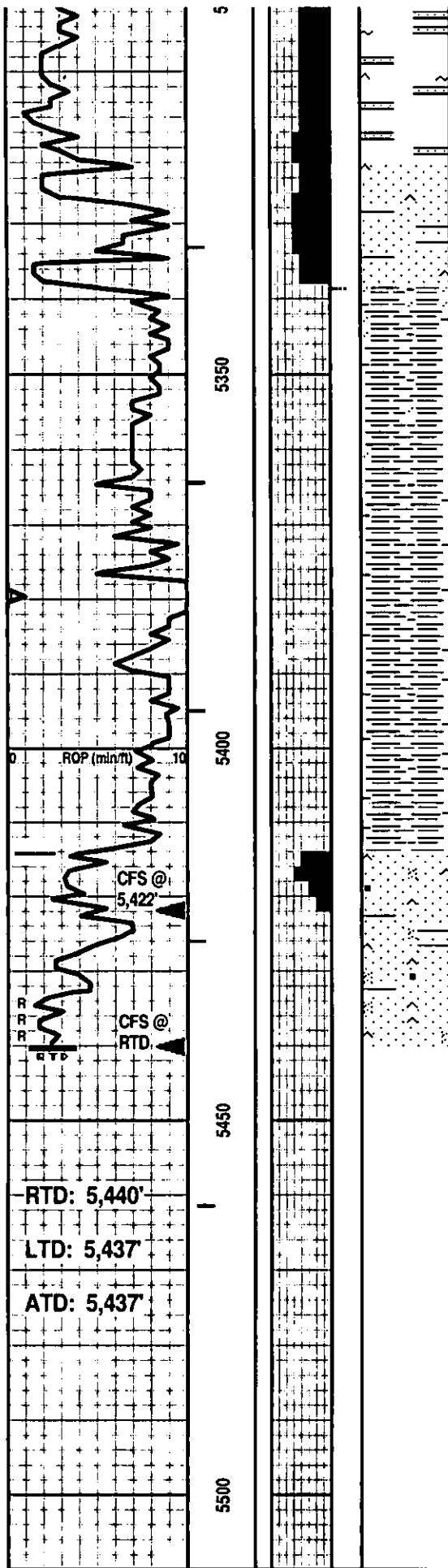
Vis: 50
Wt: 9.1
LCM: 5#

100 units = 1% Gas
0 100

Vis: 67
Wt: 9.2
LCM: 8#

Vis: 60
Wt: 9.2
LCM: 7#

Vis: 65
Wt: 9.3
LCM: 6#



SS - Clear/ Pale Lt Gray/ some Off White. Mot. VF-/ tr silt sized qtz grains. SR/SA. Mod sort. Mod sph. Vitreous/ some frosted grain contact. Calc/ tr sil cement. Point/ some sutured grain contact. some argil in part. partly Friable. Fair/ good vis por.

SH - Grays/ Green Gray/ tr Pale Greenish Gray. Sing/ tr Mot. highly sandy in part (similar to immediately above). mixture of 'crumbly' / grainy / blocky / some waxy. Massive. tr ductile in part.

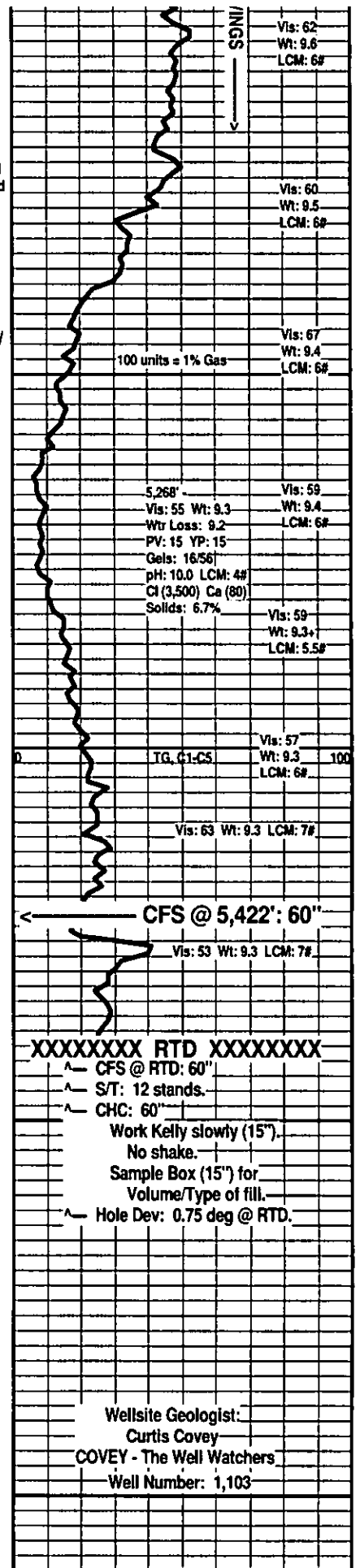
McLish SS 5,514' (-4,035')
 SS - Clear/ Off White. Mot. rare F/ mostly VF- & silt sized qtz grains. SR/SA. Hi sort. Mod sph. Vitreous/ frosted grain contact. Calc/ sil cement. mostly sutured/ tr point grain contact. tr argil in part. rare carb flecks. lots, SA, VF Dark Gray frags. few pcs: SA, Silt/tr VF Dark Green frags. partly Friable. Fair/ tr good vis por.

RICKE #2

1,005' FNL & 1,010' FEL 35-T35S-R11W
 Barber County, Kansas

WOOLSEY OPERATING CO., LLC.

Wichita, Kansas



Vis: 62
 Wt: 9.6
 LCM: 6#

Vis: 60
 Wt: 9.5
 LCM: 6#

Vis: 67
 Wt: 9.4
 LCM: 6#

5,268'
 Vis: 55 Wt: 9.3 Wt: 9.4
 Wtr Loss: 9.2 LCM: 6#
 PV: 15 YP: 15
 Gels: 16/56
 pH: 10.0 LCM: 4#
 Cl (3,500) Ca (80)
 Solids: 6.7%

Vis: 59
 Wt: 9.3+
 LCM: 5.5#

Vis: 57
 Wt: 9.3
 LCM: 6#

Vis: 63 Wt: 9.3 LCM: 7#

Vis: 53 Wt: 9.3 LCM: 7#

XXXXXXXX RTD XXXXXXXX

- ^ CFS @ RTD: 60"
- ^ S/T: 12 stands.
- ^ CHC: 60"

Work Kelly slowly (15")

No shake.

Sample Box (15") for
 Volume/Type of fill.

^ Hole Dev: 0.75 deg @ RTD.

Wellsite Geologist:

Curtis Covey

COVEY - The Well Watchers

Well Number: 1,103