



KANSAS CORPORATION COMMISSION 1119521
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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ Date: _____



1119521

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input 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 type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: 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
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Werth, Andy dba Werth Exploration Trust
Well Name	Dubois-Hailey 1
Doc ID	1119521

All Electric Logs Run

DUAL INDUCTION LOG
DUAL COMPENSATED POROSITY LOG
MICRORESISTIVITY LOG
COMPENSATED BOREHOLE SONIC LOG

Form	ACO1 - Well Completion
Operator	Werth, Andy dba Werth Exploration Trust
Well Name	Dubois-Hailey 1
Doc ID	1119521

Tops

Name	Top	Datum
ANHYDRITE	2187	+433
TOPEKA	3652	-1032
HEEBNER SHALE	3868	-1248
LKC	3910	-1290
BKC	4157	-1537
PAWNEE	4302	-1682
FT SCOTT	4372	-1752
CHEROKEE SHALE	4400	-1780
MISSISSIPPI	NOT REACHED	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6511

Date	2-7-13	Sec.	23	Twp.	11	Range	26	County	Leone	State	KS	On Location		Finish	3:45 p.m.
Location								Quarter 1 to BBRW 3E 1/8s E into							
Lease	Duggis-Haley			Well No.	1			Owner							
Contractor	Royal #1			To Quality Oilwell Cementing, Inc.											
Type Job	Surface			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	12 1/4			T.D.	221			Charge To	Werth Family Trust						
Csg.	8 5/8			Depth	220			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	15'			Shoe Joint				Cement Amount Ordered	150 com 3 1/4 2 1/4 (E)						
Meas Line				Displace	1.3BL										
EQUIPMENT															
Pumptrk	9	No.		Cementer	Craig			Common	130						
				Helper				Poz. Mix							
Bulktrk		No.		Driver	Cody			Gel.	3						
				Driver				Calcium	5						
Bulktrk	14	No.		Driver	Bithy										
				Driver											
JOB SERVICES & REMARKS															
Remarks:								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal							
Centralizers								Kol-Seal							
Baskets								Mud CLR 48							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
8 5/8 on bottom Est. Circulation.								Sand							
Mix 150 gal Displace.								Handling 158							
Cement Circulated!								Mileage /							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer 8 5/8 surge							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage 36							
								Tax							
								Discount							
X Signature <i>Adh. [Signature]</i>								Total Charge							

OPERATOR

Company: ANDY WERTH dba WERTH EXPLORATION TRUST
 Address: 1308 SCHWALLER AVE
 HAYS, KANSAS 67601

Contact Geologist: ANDY WERTH
 Contact Phone Nbr: 785-623-0013
 Well Name: DUBOIS-HAILEY # 1
 Location: SE NW NW NW Sec 23-11s-26w API: 15-063-22,080-00-00
 Pool: WILDCAT Field: UNNAMED
 State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: DUBOIS-HAILEY # 1
 Surface Location: SE NW NW NW Sec 23-11s-26w
 Bottom Location:
 API: 15-063-22,080-00-00
 License Number: 30259
 Spud Date: 2/7/2013 Time: 2:00 PM
 Region: GOVE COUNTY
 Drilling Completed: 2/13/2013 Time: 11:34 AM
 Surface Coordinates: 4892' FSL & 4696' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2613.00ft
 K.B. Elevation: 2620.00ft
 Logged Interval: 3600.00ft To: 4487.00ft
 Total Depth: 4487.00ft
 Formation: LANSING-KANSAS C ITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 4892' FSL
 E/W Co-ord: 4696' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: ROYAL DRILLING INC.
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 2/7/2013 Time: 2:00 PM
 TD Date: 2/13/2013 Time: 11:34 AM
 Rig Release: 2/14/2013 Time: 3:00 AM

ELEVATIONS

K.B. Elevation: 2620.00ft Ground Elevation: 2613.00ft
 K.B. to Ground: 7.00ft

NOTES

DECISION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF DST # 1 OVER THE "I" ZONE OF

THE LKC WHICH IS A PRIMARY PRODUCING ZONE IN THE AREA. SECONDARY ZONES IN THE "H" OF THE LKC AND THE FT SCOTT LACKED POROSITY AND PERMEABILITY.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG AND COMPENSATED BOREHOLE SONIC LOG.

DRILL STEM TESTING BY SUPERIOR TESTERS ENTERPRISES LLC: ONE (1) CONVENTIONAL TEST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

DUBOIS-HAILEY # 1	BENGSTON # 1
4892' FSL & 4696' FEL, NW/4	SW NE
Sec. 23-11s-26w	Sec. 22-11s-26w
2613' GL 2620' KB	Reference Well

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>LOG TOPS</u>	
Anhydrite	2187+ 433	2187+ 433	+426	-7
B-Anhydrite	2231+ 389	2229+ 391	+386	-5
Topeka	3652-1032	3652-1032	-1031	+1
Heebner Shale	3870-1250	3868-1248	-1247	+1
Toronto	3890-1270	3891-1271	-1270	+1
LKC	3906-1286	3910-1290	-1289	+1
BKC	4162-1542	4157-1537	-1543	-6
Pawnee	4298-1678	4302-1682	-1687	-5
Ft Scott	4371-1751	4372-1752	-1761	-9
Cherokee Shale	4400-1780	4400-1780	-1787	-7
Mississippi	NOT REACHED	NOT REACHED	-1835	
RTD	4487-1867		-1910	
LTD		4488-1868		

SUMMARY OF DAILY ACTIVITY

- 2-07-13** RU, spud 11:00 AM, set 8 5/8" surface pipe to 221' w/ 150 sacks Common, 2%Gel, 3%CC, plug down 3:45 PM, WOC 8hrs, slope 3/4
- 2-08-13** 725', drilling
- 2-09-13** 2420' drilling, displace mud system 3327' – 3344'
- 2-10-13** 3362', drilling
- 2-11-13** 3803', drilling, DST # 1 4058' – 4090' "I" zone LKC
- 2-12-13** 4090', TIWB, CCH, drilling
- 2-13-13** 4420', drilling, RTD 4487' @ 11:34AM, CCH, TOWB, logs, P&A
- 2-14-13** 4487', finish LDDP and plugging, RD

DST # 1 4058' TO 4090' " I " ZONE LKC TEST SUMMARY PAGE

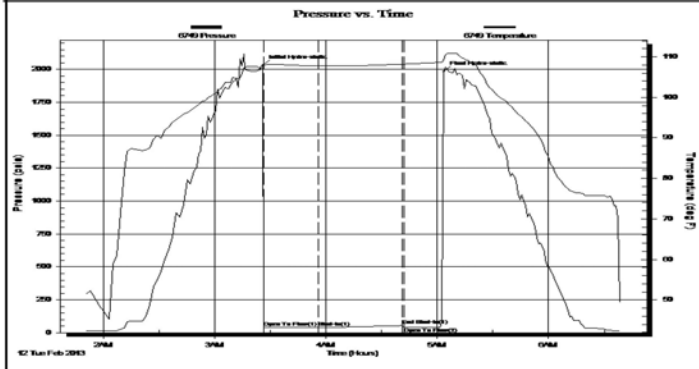
	DRILL STEM TEST REPORT	
	Werth Exploration Trust 1308 Schwaller Avenue Hays, Kansas 67601+2242 ATTN: Herb Deines	23/11S/26W/Gove Dubois-Halley #1 Job Ticket: 17508 DST#: 1 Test Start: 2013.02.12 @ 01:50:00

GENERAL INFORMATION:

Formation: Lansing/Kansas City	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Ken Swinney
Time Tool Opened: 03:26:30	Unit No: 3325 Hays/106
Time Test Ended: 06:39:00	Reference Elevations: 2620.00 ft (KB)
Interval: 4058.00 ft (KB) To 4090.00 ft (KB) (TVD)	2613.00 ft (CF)
Total Depth: 4090.00 ft (KB) (TVD)	KB to GR/CF: 7.00 ft
Hole Diameter: 7.80 inches	Hole Condition: Fair

Serial #: 6749 Inside	Capacity: 5000.00 psia
Press@RunDepth: 40.20 psia @ 4086.00 ft (KB)	Last Calib.: 2013.02.12
Start Date: 2013.02.12	End Date: 2013.02.12
Start Time: 01:50:00	End Time: 06:39:00
	Time On Btm: 2013.02.12 @ 03:26:00
	Time Off Btm: 2013.02.12 @ 05:03:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 3/4 inch in bucket of diesel then died to 1/4 inch
 1ST Shut In 45 Minutes/No blow back
 2ND Open 15 Minutes/Weak surface blow /Blow died in 2 minutes

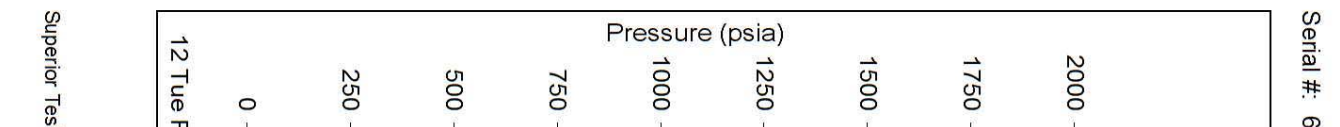


PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2032.81	108.09	Initial Hydro-static
1	38.90	107.75	Open To Flow (1)
30	40.20	107.77	Shut-In(1)
75	54.30	108.18	End Shut-In(1)
76	40.04	108.20	Open To Flow (2)
98	1985.38	109.15	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

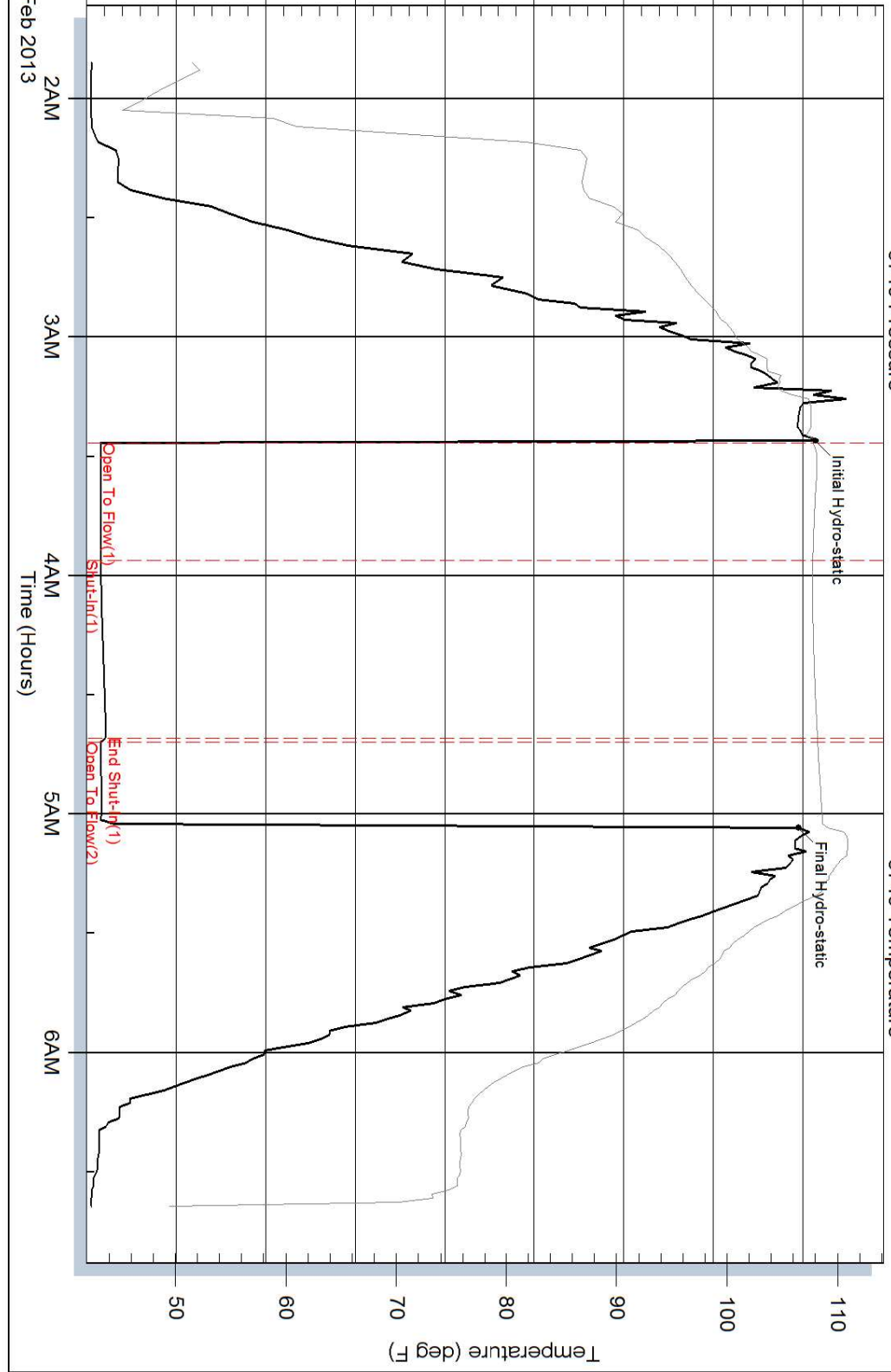
DST # 1 EXPANDED CHART













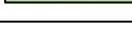

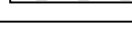
Superior Testers

Serial #: 6749

Pressure vs. Time



ROCK TYPES

 Clystgy	 Lmst fw<7	 shale, gry	 Shcol	 Lscongl
 Congl	 Lmst fw7>	 Carbon Sh	 Ss	
 Chtcongl	 shale, grn	 shale, red	 Dol Lime	

ACCESSORIES

MINERAL FOSSIL

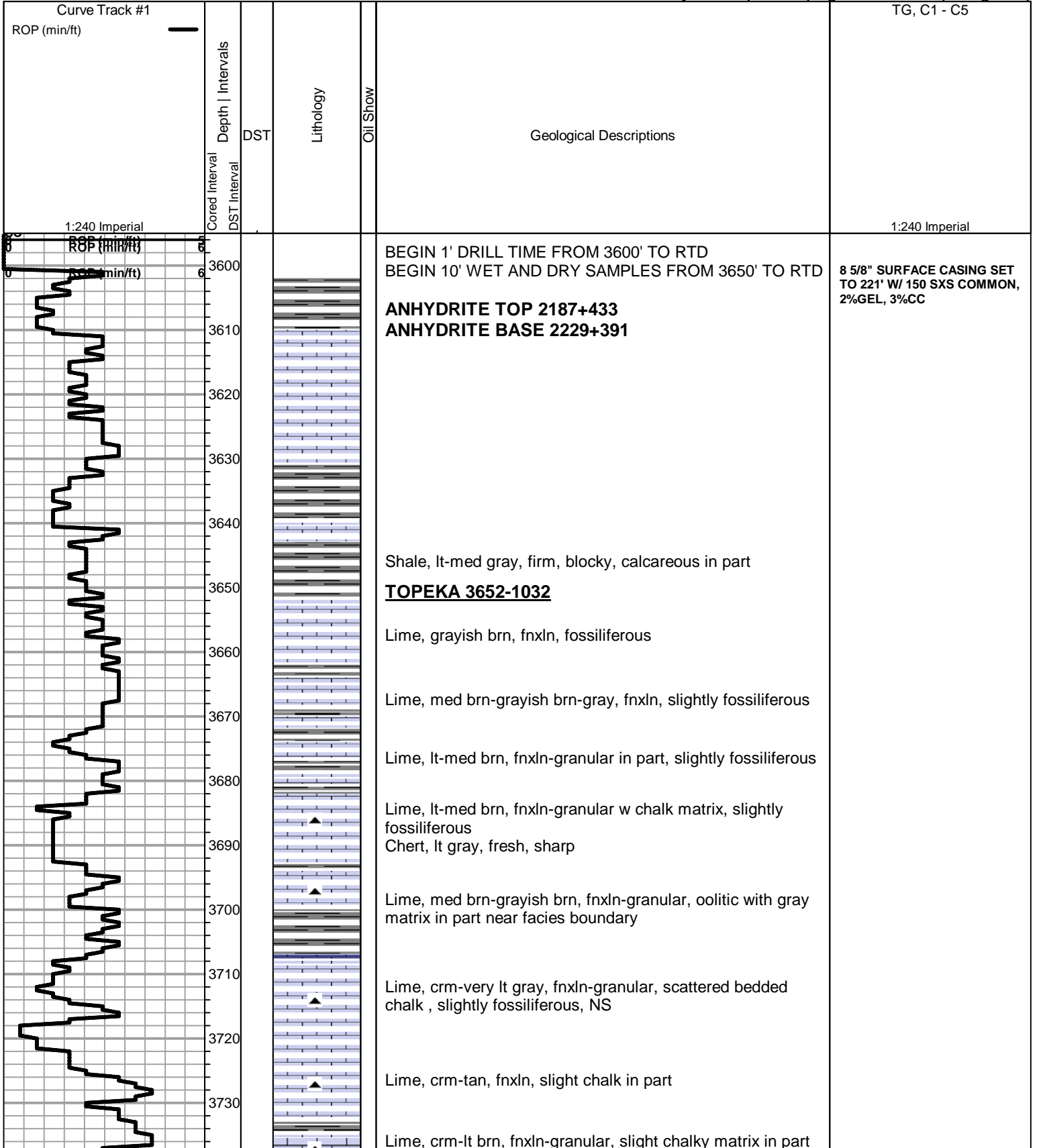
- MINERAL**
- ▲ Chert, dark
 - ∩ Glauconite
 - ⊞ Nodules
 - P Pyrite
 - Sandy
 - △ Chert White

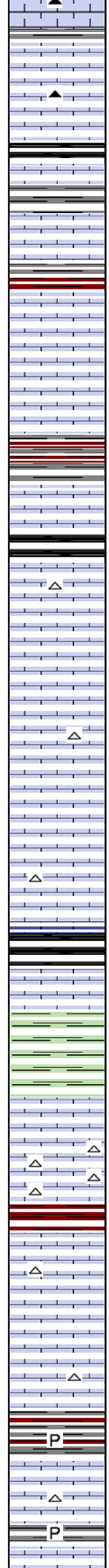
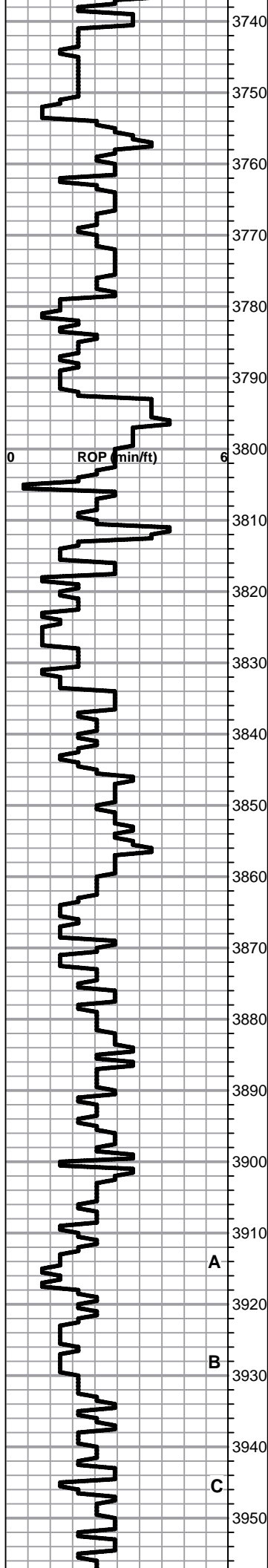
- FOSSIL**
- ◊ Oolite

OTHER SYMBOLS

- DST**
- DST Int
 - DST alt
 - Core

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Lime, lt brn, granular
Shale, gray, calcareous

Shale, gray-black carbonaceous, blocky

Shale, grayish green, firm, blocky
Lime, lt-dark brn, fnxln, slightly fossiliferous, hard on crush

Lime, lt-med brn, fn-vfxln, micritic in part,

Lime, crm, fnxln-granular, bed chalk in part , NS

Lime, crm-med grayish brn, granular-fnxln

Lime, lt-med brn, fn-vfxln
Shale, gray, maroon, reddish brn, soft, blocky

Shale, black carbonaceous, blocky

Lime, crm, fnxln-granular in part, NS

Lime, crm, fnxln-granular
Chert, tan-white, fresh, sharp

Lime, crm-lt brn, mostly fnxln, NS

Lime, crm-lt brn, fnxln, scattered fossil fragments

Lime, lt-med brn, fnxln, slight chalk in part

HEEBNER SHALE 3868-1248
Shale, black carbonaceous, fissile, blocky
Lime, lt-med brn, fnxln, slightly fossiliferous

Shale, lt gray-lime green, soft mud to firm blocky

TORONTO 3891-1271
Lime, white-crm, fn-vfxln, slight bed chalk, NS

Lime, crm-lt brn, fn-vfxln, opaque chert, fresh, sharp

LKC 3910-1290
Lime, crm, fnxln-granular, scattered oolitic with fossil fragments, NFO, No Stain, No Odor, No wet cut

Lime, crm-tan, fnxln

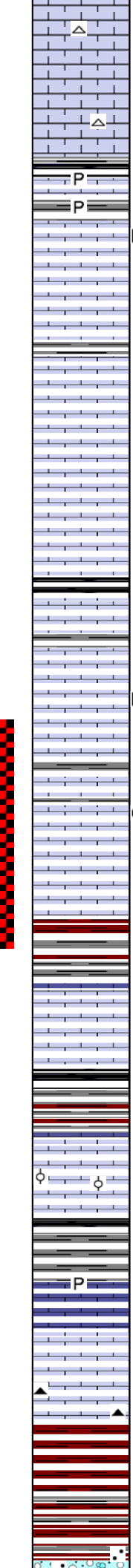
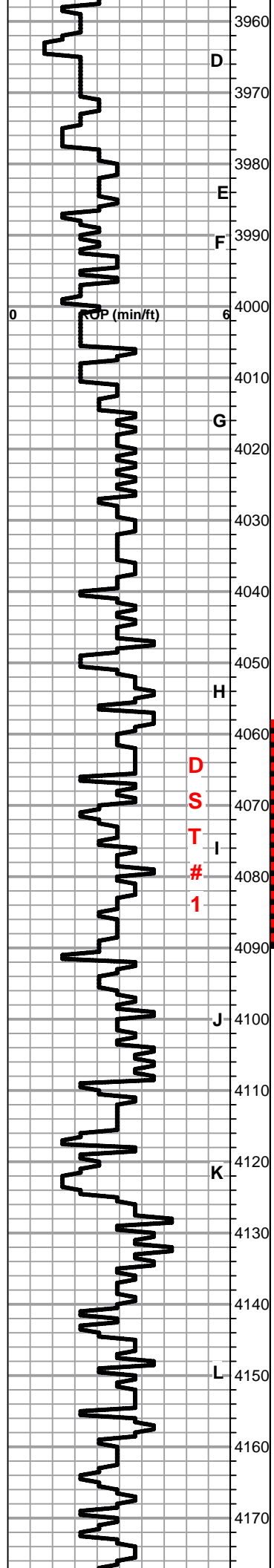
Lime, crm, fnxln, bedded chalk in part, NS

Shale, reddish brn, soft, blocky

Lime, crm, fnxln-granular, oolitic in part, NS, No Wet Cut

Lime, offwhite-crm, fnxln, slight bedded chalk in part

Lime, crm-lt brn, fn-vfxln, slight bed chalk, NS



Lime, crm-lt brn, fn-vfxln, slight bed chalk, NS

Lime, crm-lt brn, fn-vfxln, slight bed chalk, NS

Shale, gray-black
Lime, dove gray, fn-vfxln
Shale, grayish green, soft blocky

Lime crm-lt brn, fnxln, thin oolitic zone, hvy dead oil, No Odor, NFO, spotty stain, sparry calcite backfill

Lime, tan-lt brn, fnxln, dolomitic in part, NS, No Wet Cut

Lime, crm, fnxln, bedded chalk, NS

Lime, white-crm, fn-micro xln, slight bed chalk, NS

Lime, white-crm, fn-micro xln, slight bed chalk, NS

Shale, black carbonaceous, fissile, blocky
Lime, med brn, fn-vfxln, hard on crush
Shale, grayish green, soft blocky

Lime, white-crm-lt brn fnxln-granular, chalky, NS

Lime, lt-med brn, fn-vfxln, few oolitic chips w/ spotty hvy dead oil stain, NFO, No Odor

Lime, lt-med brn, fnxln-fine granular, fine ppt and interxln porosity, scattered to saturated staining, very lt detectable odor. Porosity very fine and visible under high magnification

Lime, lt-med brn, mostly fnxln

Shale, red, brn, gray, soft blocky
Shale, red, brn, gray, soft blocky

Lime, crm-lt brn, micro xln, bed chalk in part, NS

Shale, gray-black carbonaceous, soft blocky grading into gray, red and brn shales, soft blocky

Lime, white-crm, granular, micro oolitic, NS, No Odor, No Wet Cut

Shale, black carbonaceous

Lime, med brn-grayish brn, granular-fnxln, hard on crush, NS

Lime, lt brn-lt grayish brn, fn-vfxln, bed chalk in part, NS

Lime, offwhite-lt gray, fn-vfxln, Chert, orange, fresh, sharp
BKC 4157-1537

Shale, reddish brn-dark brn, soft blocky

Shale, vari color, reds, brns, grays, soft-firm blocky

Shale, lt red wash, sandy in part

MICROLOG SHOWS NO PERMEABILITY IN ZONE

MICROLOG SHOWS THIN BREAK WITH VERY LITTLE TO NO PERMEABILITY

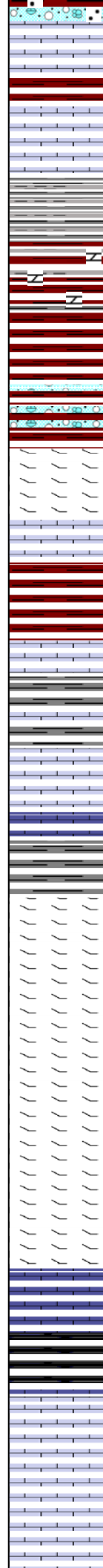
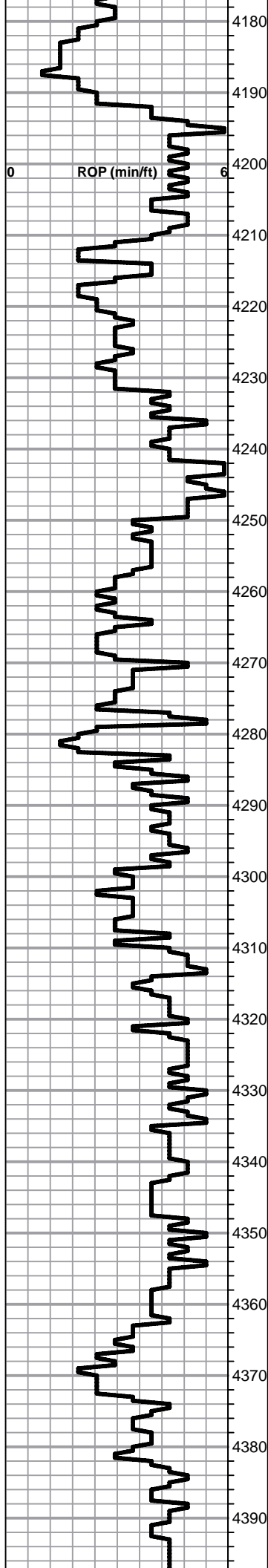
DST # 1 4058' TO 4090' SEE HEADER FOR TEST SUMMARY

MICROLOG SHOWS NO PERMEABILITY IN "I" ZONE

PIPE STRAP .32 SHORT TO BOARD @ 4090'

**D
S
T

1**



Lime, crm, fnxln with mix of clastic lime with red shale mix and staining

Lime, lt brn-lt gray, fnxln, hard on crush, micritic in part

Lime, med brn-lt red-gray, fn-micro xln

Shale, lt gray wash, lt-med gray, soft blocky, waxy in part

Shale, vari color, grays, brns, red, maroon, soft blocky small chert nodules, vari colored

Shale, as above with clastic limestone content in part

Lime, tan, dolomitic, chips of orange chert in pat

Shale, reddish brn-dark brn, firm blocky

Lime, lt brn, fnxln, granular, hard on crush

Lime, tan-lt brn, fnxln, micro oolitic and well cemented

Lime, tan-gray, fnxln, increasing shaliness near facies boundary

Shale, med gray, firm blocky

PAWNEE 4302-1682

Lime, tan-offwhite-lt gray, fn-micro xln, hard on crush, slightly dolomitic, scattered chips of orange chert, fresh

Lime, tan-offwhite, dolomitic, fnxln-hard granular

Lime, med brn-med grayish brn, fnxln, dolomitic with increase in gray shale content

Lime, med gray, fnxln, slightly dolomitic, hard on crush

Lime, med -dark gray, fnxln, dolomitic, hard on crush

Lime, dark gray-black with increasing black shale near facies boundary grading into black carbonaceous shale

Shale, black carbonaceous, fissile, blocky

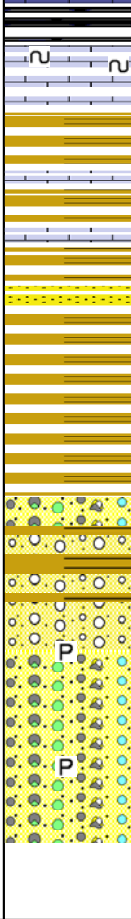
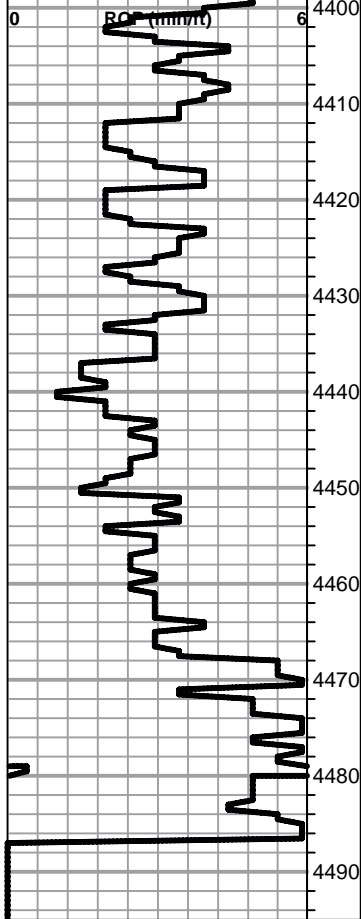
FT SCOTT 4372-1752

Lime, lt-med brn, mostly fnxln, hard on crush, few chips with lt scattered stain in vf interxln and scattered ppt porosity, NFO, No Odor, porosity visible under high magnification only. Deemed impermeable and too poorly developed to be commercial

Lime, med brn-grayish brn, fnxln, chalk in part, hard on crush

MICROLOG SHOWS VERY THIN ZONE WITH LIMITED PERMEABILITY

CHEROKEE SHALE 4400-1780



Shale, gray-black carbonaceous
Lime, crm-lt brn, fn-vfxln, scattered glauconitic specks, NS
Shale, vari color, firm blocky
Shale, vari color, firm blocky
Shale, vari color, increase in color intensity and variation
few chips of pale green shale, waxy
Shale, vari color as above with increasing quartz grain
content and vari color chert, NS
Cherts, vari colored, shale vari colored
Cherts, vari color with white oolitic chert in part, NS
Chert, vari colored
Chert, vari colored with granular red stained lime in part, NS

RTD 4487-1867 LTD 4488-1868

**BIT CRATERED. DECISION TO
TD WELL AND LOG**
SLOPE @ 4487' 1 DEGREE

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6437

Date	2-14-13	Sec.	23	Twp.	11	Range	26	County	Gove	State	Ks	On Location	1:00 Am	Finish	4:00 Am
Location <u>Quarter 3 E 3 N E into</u>															

Lease Dubois-Harley Well No. 1

Contractor Royal Ry 1

Type Job plug

Hole Size 7 7/8 T.D. 4487

Csg. Drill pipe Depth

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace

Owner
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Cham To Werth Family Trust

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor

Cement Amount Ordered 270 60/40 490cc

EQUIPMENT

Pumptrk	5	No.	Cementers	<u>Matt P</u>
			Helper	
Bulktrk	1	No.	Driver	<u>Scott P</u>
			Driver	
Bulktrk	1	No.	Driver	<u>Kennie M</u>
			Driver	

Common	<u>132</u>
Poz. Mix	<u>88</u>
Gel.	<u>8</u>
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	<u>228</u>
Mileage	

JOB SERVICES & REMARKS

Remarks: 30 SX

Rat Hole 15 SX

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

1st	2225ft	25 SX
2nd	1275ft	100 SX
3rd	275ft	40 SX
4th	40ft	10 SX

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
<u>8 1/2 Dry Hole plug</u>	
Pumptrk Charge	<u>Plug</u>
Mileage	<u>36</u>

X Signature J. M. Bludis

Tax	
Discount	
Total Charge	