

Kansas Corporation Commission Oil & Gas Conservation Division

120197

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
☐ New Well ☐ Re-Entry ☐ Workover	Total Depth: Plug Back Total Depth:
☐ Oil ☐ WSW ☐ SIOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW ☐ OG ☐ GSW ☐ Temp. Abd. ☐ CM (Coal Bed Methane) ☐ Cathodic ☐ Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	·
Operator: Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec TwpS. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date Recompletion Date	

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 Approved by: Date:							

Side Two



Operator Name:				Lease I	Name: _			_ Well #:		
Sec Twp	S. R	East	West	County	":					
INSTRUCTIONS: Shitime tool open and clorecovery, and flow rate line Logs surveyed. A	sed, flowing and shues if gas to surface te	t-in pressures st, along with	s, whether so final chart(s	hut-in pres	sure read	ched static level,	hydrostatic press	sures, bottom h	nole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional S		Yes	☐ No			og Formatio	n (Top), Depth ar	nd Datum	;	Sample
Samples Sent to Geol	ogical Survey	Yes	No		Nam	е		Тор	[Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy		Yes Yes Yes	No No No							
List All E. Logs Run:										
		Report a		RECORD	Ne	w Used	ion, etc.			
Purpose of String	Size Hole Drilled	Size C Set (In		Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent additives
			ADDITIONAL	CEMENTII	NG / SQL	 EEZE RECORD				
Purpose:	Depth	Type of (Percent Additives		
Perforate Protect Casing	Top Bottom	71								
Plug Back TD Plug Off Zone										
Flug On Zone										
	PERFORATI	ON RECORD	- Bridge Plug	s Set/Type		Acid, Fra	cture, Shot, Cemen	t Saueeze Recor	d	
Shots Per Foot	Specify	Footage of Eac	h Interval Perf	forated			mount and Kind of Ma			Depth
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN	_	roducing Meth	nod:	ıg 🗌	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		ħ.	METHOD OF	COMPLE	TION:		PRODUCTION	ON INTER	VAL:
Vented Sold		Оре	n Hole	Perf.	Dually	Comp. Cor	nmingled			
(If vented, Sub			or (Specify)		(Submit A	ACO-5) (Sub	mit ACO-4)			

Form	ACO1 - Well Completion						
Operator	Black Diamond Oil, Inc.						
Well Name	Kemper 1						
Doc ID	1120197						

All Electric Logs Run

TEMPERATURE SURVEY
NEURTON / DENSITY LOG
DUAL INDUCTION LOG
GAMMA RAY
MICRO LOG

TY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665

Cell 785-324-1041	(54)					,rogement are to some	OPTENDADO DE LA RESTRUCCIO	SPECIAL RELATION	
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Type Job Surface	on weak w	de lied	s well SASMAN	turit com	Charge	The helper to assist on	2	PURE TURNS	
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Csg. \$5/8		Depth	28		Street				
Tbg. Size		Depth	2182282481187		City State				
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X Signature							Total Charge	de cuerca de la compansión de la compans	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

6165 Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 Cell 785-324-1041 Sec. Twp. Range County NORTON Location MAN WTO EIDRA-STO CATTE CAURD-STAV Well No. Lease KEMOER ACK DIAMOND To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish Contractor W.W #10 cementer and helper to assist owner or contractor to do work as listed. Hole Size T.D. RIACK DIAMOND 14LB-NEW Depth. Street Popox 64 Tbg. Size Depth Tool toer Coil Depth The above was done to satisfaction and supervision of owner agent or contra Cement Amount Ordered 17 Shoe Joint Cement Left in Csa Meas Line **EQUIPMENT** Common Cementer Helper NTCK Pumptrk Poz. Mix Driver Driver LONNITE W Gel. Driver Bulktrk Driver CTSCO Calcium **JOB SERVICES & REMARKS** Hulls Remarks: Salt 375K Rat Hole Flowseal Mouse Hole Kol-Seal Centralizers Mud CLR 48 500 GAL Baskets CFL-117 or CD110 CAF 38 DAV-or Port Collar A Sand Handling/ Mileage Dumpero muscue 48- plugger maxes & sumsess 145 **FLOAT EQUIPMENT** DEODDED brind and KHE Guide Shoe DISPLACED. PLUG LANDER of HELD Centralizer Baskets **AFU Inserts** euglances 8786 Float Shoe Latch Down Pumptrk Charge Mileage HANK VOL data to not more information or data gent and QUALITY will accome Total Charge

OPERATOR

Company: BLACK DIAMOND OIL, INC.

Address: **PO BOX 641**

HAYS, KANSAS 67601-0641

Contact Geologist: KEN VEHIGE Contact Phone Nbr: 785-625-5891

Well Name: KEMPER #1

NW SE SE Sec.22-5s-21w API: Location: 15-137-20,626-00-00

Pool: IN FIELD Field: **RAY WEST**

State: **KANSAS** Country: USA

Scale 1:240 Imperial

Well Name: KEMPER #1

Surface Location: NW SE SE Sec.22-5s-21w

Bottom Location:

API: 15-137-20,626-00-00

License Number: 7076

Spud Date: 11/1/2012 Time: 3:15 PM

Region: NORTON COUNTY

Drilling Completed: 11/5/2012 Time: 12:51 AM 990' FSL & 990' FEL

Surface Coordinates:

Bottom Hole Coordinates:

Ground Elevation: 2161.00ft K.B. Elevation: 2166.00ft

Logged Interval: 2600.00ft To: 3590.00ft

Total Depth: 3590.00ft Formation: ARBUCKLE

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: Latitude:

N/S Co-ord: 990' FSL E/W Co-ord: 990' FEL

LOGGED BY



Company: SOLUTIONS CONSULTING

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: Geologist HERB DEINES Name:

CONTRACTOR

WW DRILLING LLC Contractor:

Rig #:

Rig Type: **MUD ROTARY**

Spud Date: 11/1/2012 Time: 3:15 PM TD Date: 11/5/2012 Time: 12:51 AM Rig Release: 11/6/2012 Time: 5:00 AM

ELEVATIONS

K.B. Elevation: 2166.00ft Ground Elevation: 2161.00ft

K.B. to Ground: 5.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON POSITIVE RESULTS OF DST # 1.

DRILL STEM TESTING BY TRILOBITE TESTERS INC.: TWO (2) CONVENTIONAL TESTS

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

KEMPER # 1 990' FSL & 990' FEL, SE/4 Sec. 22-5s-21w 2161' GL 2166' KB

FORMATION	SAMPLE TOPS	LOG TOPS
Anhydrite	1756+ 410	1757+ 409
B-Anhydrite	1786+ 380	1786+ 380
Topeka		3164- 998
Heebner Shale	3309-1143	3312-1146
Toronto	3335-1169	3340-1174
LKC	3350-1184	3357-1191
BKC	3544-1378	3543-1377
Arbuckle	3588-1422	
Reagan Sand	NOT REACHED	
RTD	3590-1424	
LTD		3588-1422

SUMMARY OF DAILY ACTIVITY

11-01-12	Spud, set 8 5/8" surface casing to 217' w/ 165 sxs common, 2%gel,
	3%CC, plug down 5:45PM, Slope ¾ degree
11-02-12	863', drilling
11-03-12	2688', drilling,
11-04-12	3442', short trip, CCH 1 ½ hrs, DST # 1 3364'-3442' C-F, slope 1
	degree, strap 3464.45' board 3464.05' .40' long.
11-05-12	3590', RTD 3590'@ 12:51AM, mini short trip, CCH 1½ hrs, trip out
	for logs, slope at RTD 1 degree, logs, DST # 2 3541'-3590' Arbuckle,
	TIWB, CCH, lay down drill pipe and run production casing
11-06-12	3590', finish running casing and cementing, RD

DST # 1 TEST SUMMARY



DRILL STEM TEST REPORT

Black Diamond Oil, Inc. 22-5s-21w-Norton

PO Box 641 Kemper #1

Hays, KS. 67601 Job Ticket: 48723 **DST#:1**

ATTN: Herb Deines Test Start: 2012.11.04 @ 11:05:23

GENERAL INFORMATION:

Formation: C-F

Deviated: No Whipstock: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 12:14:38 Tester: Jason McLemore

Time Test Ended: 15:48:23 Unit No: 5

Interval: 3364.00 ft (KB) To 3442.00 ft (KB) (TVD) Reference ⊟evations: 2167.00 ft (KB)

Total Depth: 3442.00 ft (KB) (TVD) 2162.00 ft (CF)

Hole Diameter: 7.80 inchesHole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8366 Inside

Press@RunDepth: 381.22 psig @ 3431.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2012.11.04
 End Date:
 2012.11.04
 Last Calib.:
 2012.11.04

 Start Time:
 11:05:25
 End Time:
 15:48:23
 Time On Btm:
 2012.11.04 @ 12:14:23

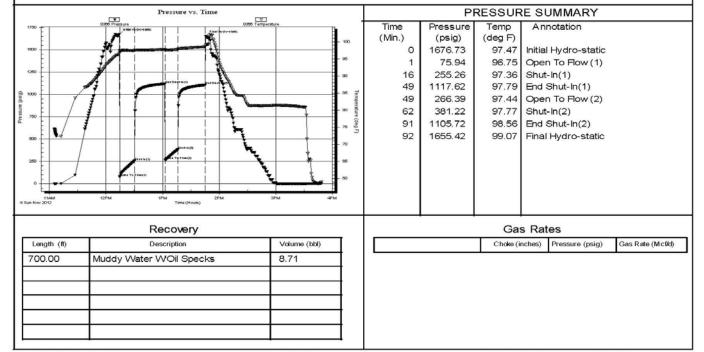
 Time Off Btm:
 2012.11.04 @ 13:45:53

TEST COMMENT: IFP-Strong, BOB in 4 Min.

ISI-Surface Blow back Building to 1/4"

FFP-Strong, BOB in 3 Min.

FSI-Dead

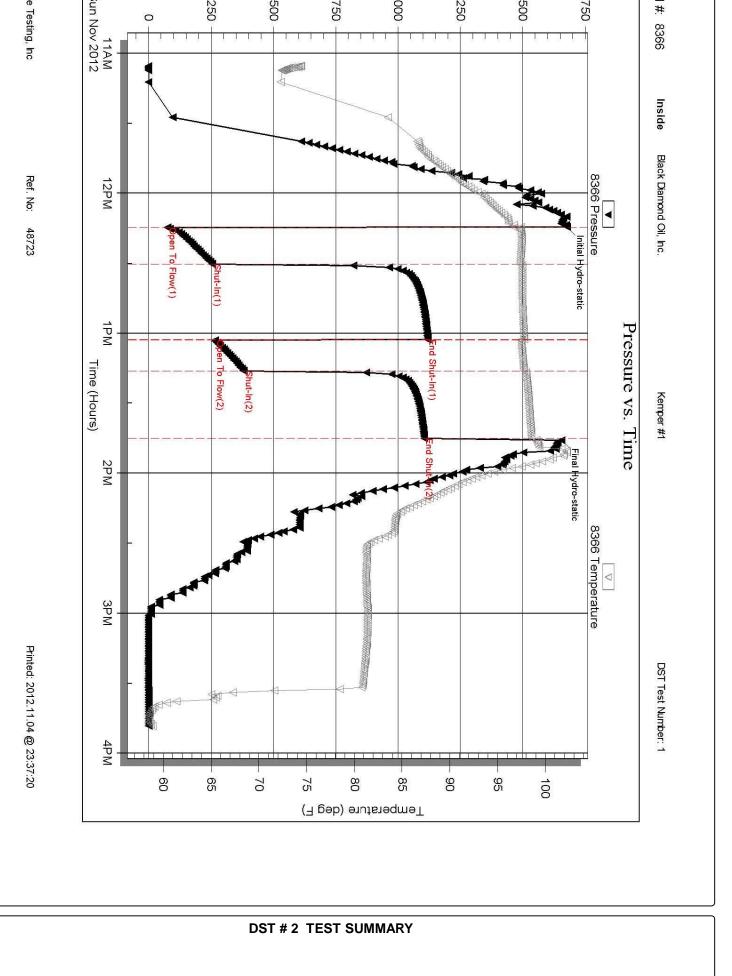


Trilobite Testing, Inc Ref. No: 48723 Printed: 2012.11.04 @ 23:37:18

DST #1 EXPANDED CHART

Pressure (psig)

Seria





ATTN: Herb Deines

Test Start: 2012.11.05 @ 09:05:52

54

Reference Elevations:

Tester:

Unit No:

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:54:37

Time Test Ended: 16:25:07

3541.00 ft (KB) To 3590.00 ft (KB) (TVD) Interval:

3590.00 ft (KB) (TVD) Total Depth:

Hole Diameter: 7.80 inchesHole Condition: Good

2162.00 ft (CF) KB to GR/CF: 5.00 ft

Jason McLemore

Conventional Bottom Hole (Reset)

2167.00 ft (KB)

Serial #: 8366

Recovery from multiple tests

8000.00 psig Press@RunDepth: 73.83 psig @ 3579.00 ft (KB) Capacity: Start Date: 2012.11.05 End Date: 2012.11.05 Last Calib .: 2012.11.05

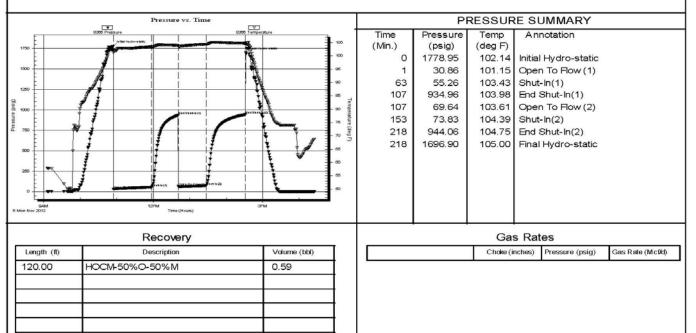
Start Time: 09:05:54 End Time: 16:25:07 Time On Btm: 2012.11.05 @ 10:54:22 Time Off Btm: 2012.11.05 @ 14:32:07

TEST COMMENT: IFP-Weak Blow, Built to 2-1/2"

ISI-Dead

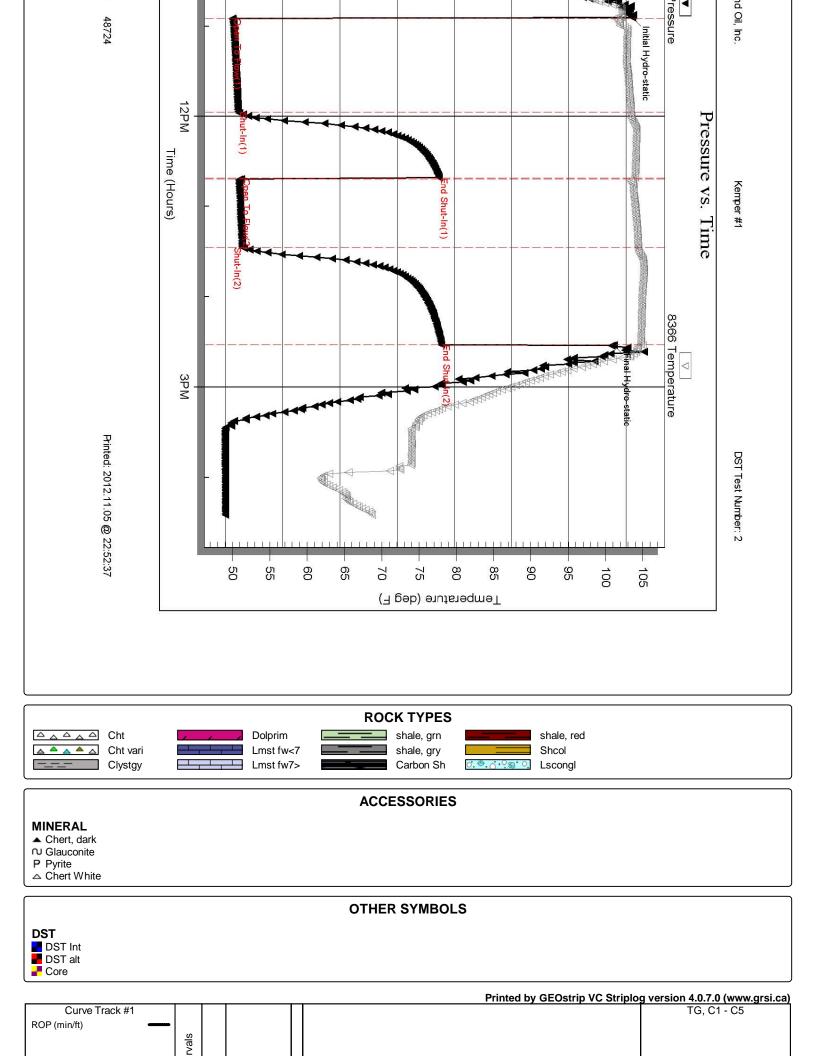
FFP-Weak Blow, Built to 1"

FSI-Dead

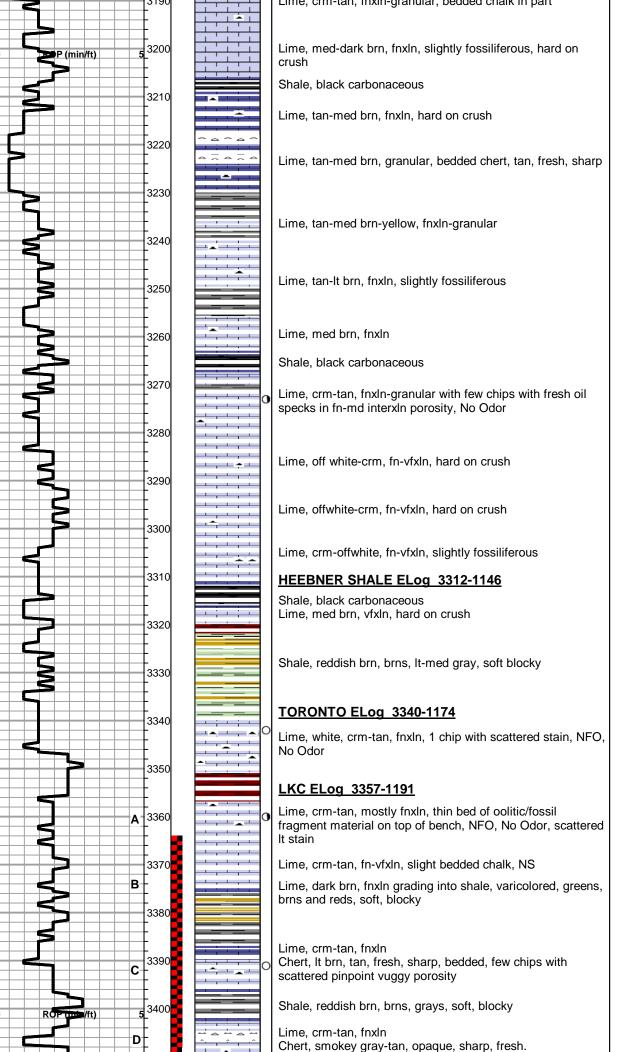


Ref. No: 48724 Printed: 2012.11.05 @ 22:52:35 Trilobite Testing, Inc

DST # 2 EXPANDED CHART Serial Trilobite Testing, Inc Pressure (psig) 1750 Mon Nov 2012 250 500 750 # Inside 8366 F



	Cored Interval DST Interval	DST	Lithology	Oil Show	Geological Descriptions	
1:240 Imperial 0 ROP (min/ft) 5	<u>്</u>			Н		1:240 Imperial
	3000 -				BEGIN 1' DRILL TIME FROM 3000' TO RTD BEGIN 10' WET AND DRY SAMPLES FROM 3050' TO RTD	8 5/8" SURFACE CASING SET TO 217' W/ 165 SXS COMMON 2%GEL, 3%CC
3	3010				ANHYDRITE ELOG TOP 1757+409 ANHYDRITE ELOG BASE 1786+380	SLOPE 3/4 DEGREE @ 218'
2	3020				Lime, It-med brn, fnxln	
	3030)			Lime, tan-lt brn-lt gray, fnxln-granular, slightly fossiliferous	
=	3040)			Lime, tan-med brn-lt gray, fnxln-granular, crinoid segments	
	3050				Lime, It-med gray, fnxln	
	3060)			Lime, med brn-gray, fnxln, slightly fossiliferous	
	3070				Shale, gray, soft, blocky, calcareous in part	
	<u> </u>				Lime, It-med gray, fnxln, soft on crush	
3	3080				Lime, med-dark gray, fnxln	
	3090 - - - 3100				Lime, tan-brn with yellow oolites, granular	
	3110				Lime, med-dark gray, granular, crinoid segments	
	3120				Shale, dove gray, soft mud	
3	<u> </u>				Lime, It-med brn, fnxln, slightly fossiliferous	
5	3130 - - - -				Lime, crm-tan, fnxln, bedded chalk in part with It chalky wash	
	3140				Lime, It brn-lt gray, fnxln-granular, slightly fossiliferous	
	3150 - - -				Lime, It brn-It gray, fnxln, fossiliferous chert	
5	3160				TOPEKA ELog 3164-998	
	3170				Lime, It brn-It gray, fnxIn Chert, tan, bedded, fresh, sharp	
	3180)			Lime, crm-tan, fnxln-granular, slightly bedded chalk in part	
	2400				Lime arm ton fowly granular hadded shalk in part	



DST # 1 3364' TO 3442' SEE HEADER FOR TEST SUMMARY

