



**Notice:** Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.

KANSAS CORPORATION COMMISSION 1127917  
OIL & GAS CONSERVATION DIVISION

Form CP-4  
March 2009

Type or Print on this Form  
Form must be Signed  
All blanks must be Filled

**WELL PLUGGING RECORD**  
K.A.R. 82-3-117

OPERATOR: License #: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address 1: \_\_\_\_\_  
 Address 2: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
 Contact Person: \_\_\_\_\_  
 Phone: ( \_\_\_\_\_ ) \_\_\_\_\_  
 Type of Well: (Check one)  Oil Well  Gas Well  OG  D&A  Cathodic  
 Water Supply Well  Other: \_\_\_\_\_  SWD Permit #: \_\_\_\_\_  
 ENHR Permit #: \_\_\_\_\_  Gas Storage Permit #: \_\_\_\_\_  
 Is ACO-1 filed?  Yes  No If not, is well log attached?  Yes  No  
 Producing Formation(s): List All (If needed attach another sheet)  
 \_\_\_\_\_ Depth to Top: \_\_\_\_\_ Bottom: \_\_\_\_\_ T.D. \_\_\_\_\_  
 \_\_\_\_\_ Depth to Top: \_\_\_\_\_ Bottom: \_\_\_\_\_ T.D. \_\_\_\_\_  
 \_\_\_\_\_ Depth to Top: \_\_\_\_\_ Bottom: \_\_\_\_\_ T.D. \_\_\_\_\_

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 #: \_\_\_\_\_  
 Date Well Completed: \_\_\_\_\_  
 The plugging proposal was approved on: \_\_\_\_\_ (Date)  
 by: \_\_\_\_\_ (KCC District Agent's Name)  
 Plugging Commenced: \_\_\_\_\_  
 Plugging Completed: \_\_\_\_\_

Show depth and thickness of all water, oil and gas formations.

Oil, Gas or Water Records		Casing Record (Surface, Conductor & Production)			
Formation	Content	Casing	Size	Setting Depth	Pulled Out

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

Plugging Contractor License #: \_\_\_\_\_ Name: \_\_\_\_\_  
 Address 1: \_\_\_\_\_ Address 2: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
 Phone: ( \_\_\_\_\_ ) \_\_\_\_\_  
 Name of Party Responsible for Plugging Fees: \_\_\_\_\_  
 State of \_\_\_\_\_ County, \_\_\_\_\_, ss.  
 \_\_\_\_\_  Employee of Operator or  Operator on above-described well,  
 (Print Name)

being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.

Submitted Electronically

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

Form	CP4 - Well Plugging Record
Operator	Brinker Enterprises, LLC
Well Name	KnippSW 36-1
Doc ID	1127917

Producing Formations

Formation	Top	Bottom	Total Depth
Anhydrite	1444	1478	
Toronto	3128		
KC	3142	3349	
TD			3520



REMIT TO  
RR 1 BOX 90 D  
HOXIE, KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

No 673

DATE 3-8-13 SEC. 36	RANGE/TWP. 7 20	CALLED OUT	ON LOCATION	JOB START 16:45 Rooks COUNTY	JOB FINISH 11:15 KS
LEASE Knipp SW		WELL # 36-1			

CONTRACTOR <i>www Drilling</i>	OWNER <i>Brinker</i>				
TYPE OF JOB <i>conductor</i>					
HOLE SIZE	T.D. 51.00	CEMENT			
CASING SIZE 13 3/8	DEPTH 43.50	AMONT ORDERED	90sv	COM	3%CC 2%gel
TUBING SIZE	DEPTH				
DRILL PIPE	DEPTH				
TOOL	DEPTH				
PRES. MAX	MINIMUM	COMMON	90	@ 15.50	1395.00
DISPLACEMENT 5.25 bbl	SHOE JOINT	POZMIX		@	
CEMENT LEFT IN CSG. 10ft		GEL	2	@ 26.00	52.00
PERFS		CHLORIDE	3	@ 58.00	174.00
		ASC		@	
EQUIPMENT				@	
				@	
PUMP TRUCK				@	
#				@	
BULK TRUCK				@	
#				@	
BULK TRUCK				@	
#				@	
		HANDLING	95	@ 2.15	204.25
		MILEAGE	56	@ .10/mi	532.00
		TOTAL			2357.25

REMARKS	SERVICE			
<i>Ran 43.50 of 13 3/8 conductor with 8 5/8 landing ft</i>	DEPT OF JOB	43 1/2'	@	
	PUMP TRUCK CHARGE	1	@ 1250.00	1250.00
	EXTRA FOOTAGE		@	
<i>Est Circulation</i>	MILEAGE	56x2	@ 6.50	728.00
<i>mixed 90sv com 3%CC 2%gel and disp</i>	MANIFOLD		@	
<i>5 1/4 bbl of H2O - shut in @ 100 psi</i>	<i>Light Vehicle</i>	56x2	@ 2.00	224.00
<i>Cement Did Circulate to Surface.</i>	TOTAL			2202.00

CHARGES TO: <i>Brinker Enterprises</i>	
STREET	STATE
CITY	ZIP

To: Schippers Oil Field Services L.L.C.  
You are hereby requested to rent cementing equipment and furnish staff 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 "TERMS AND CONDITIONS" listed on the reverse side.

*Thank You!!*

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL	4559.25
TAX	
TOTAL CHARGE	
DISCOUNT (IF PAID IN 20 DAYS)	

SIGNATURE *Scott Buchholz* PRINTED NAME *Scott Buchholz*



REMIT TO  
RR 1 BOX 90 D  
HOXIE, KS 67740

**SCHIPPERS OIL FIELD SERVICE L.L.C.**

№ 875

DATE <i>3-14-13</i>	SEC. <i>36</i>	RANGE/TWP. <i>7 20</i>	CALLED OUT <i>11:00 a.m.</i>	ON LOCATION <i>1:30 pm</i>	JOB START <i>2:00 pm</i>	JOB FINISH <i>5:30 pm</i>
LEASE <i>Kuipp</i>			WELL # <i>36-1</i>			
			COUNTY <i>Rusk</i>		STATE <i>Ks</i>	

CONTRACTOR <i>WW #6</i>	OWNER			
TYPE OF JOB <i>Rotary Plc</i>				
HOLE SIZE <i>7 1/8</i>	T.D. <i>3950'</i>	CEMENT	<i>235 sks</i>	<i>60/40 4 1/2 Gal</i>
CASING SIZE	DEPTH	AMOUNT ORDERED	<i>14 1/2 gal</i>	<i>Flo-Seal</i>
TUBING SIZE	DEPTH			
DRILL PIPE <i>4 1/2</i>	DEPTH			
TOOL	DEPTH			
PRES. MAX	MINIMUM	COMMON	<i>141</i>	<i>@ 15.50 2185.50</i>
DISPLACEMENT	SHOE JOINT	POZMIX	<i>94</i>	<i>@ 8.75 822.50</i>
CEMENT LEFT IN CSG.		GEL	<i>8</i>	<i>@ 26.00 208.00</i>
PERFS		CHLORIDE		<i>@</i>
		ASC		<i>@</i>
EQUIPMENT		<i>Flo-Seal</i>	<i>59</i>	<i>@ 2.25 132.75</i>
				<i>@</i>
PUMP TRUCK				<i>@</i>
# <i>1 Jack</i>				<i>@</i>
BULK TRUCK				<i>@</i>
# <i>1 Jay</i>				<i>@</i>
BULK TRUCK <i>Pickup</i>				<i>@</i>
# <i>Jerry</i>				<i>@</i>
		HANDLING	<i>245</i>	<i>@ 2.15 526.75</i>
		MILEAGE	<i>56</i>	<i>@ 10/sk/ml 1372.00</i>
		TOTAL		<i>5247.50</i>

REMARKS <i>50 sks @ 34.08</i>	SERVICE		
<i>25 sks @ 14.61</i>	DEPT OF JOB		<i>@</i>
<i>100 sks @ 8.25</i>	PUMP TRUCK CHARGE	<i>1</i>	<i>@ 1650.00 1650.00</i>
<i>20 sks @ 7.00</i>	EXTRA FOOTAGE		<i>@</i>
<i>10 sk @ 4.00</i>	MILEAGE	<i>56 x 2</i>	<i>@ 6.50 728.00</i>
<i>30 sks Rot Hole</i>	MANIFOLD		<i>@</i>
<i>235 sks</i>	<i>high vehicle</i>	<i>56 x 2</i>	<i>@ 2.00 224.00</i>
<i>Plugged @ 5:30 p.m.</i>	TOTAL		<i>2602.00</i>

CHARGES TO: <i>Bracket</i>	
STREET	STATE
CITY	ZIP

To: Schippers Oil Field Services L.L.C.

You are hereby requested to rent cementing equipment and furnish staff 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 "TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT	
<i>7 1/8 Plug</i>	<i>@ 79.00</i>
	<i>@</i>
	<i>@</i>
	<i>@</i>
	<i>@</i>
	<i>@</i>
	<i>TOTAL 7928.50</i>
TAX	
TOTAL CHARGE	
DISCOUNT (IF PAID IN 20 DAYS)	

SIGNATURE *[Signature]*

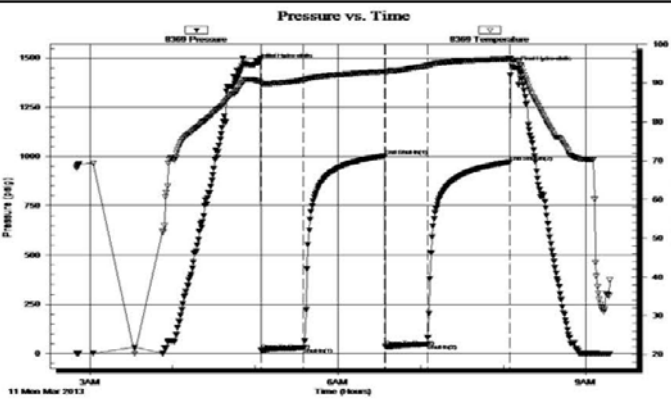
PRINTED NAME

*7.76 pm*





TEST COMMENT: 30-IFP-wk bl thru-out 1/4"bl  
 60-ISIP-no bl bl  
 30-FFP-wk bl thru-out 1/4"bl  
 60-FSIP-no bl



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1465.35	90.79	Initial Hydro-static
5	15.49	89.81	Open To Flow(1)
36	28.92	90.79	Shut-In(1)
95	1002.82	92.98	End Shut-In(1)
96	34.39	92.75	Open To Flow(2)
126	48.32	94.51	Shut-In(2)
186	971.15	96.22	End Shut-In(2)
189	1449.10	95.93	Final Hydro-static

Recovery		
Length(ft)	Description	Volume(bbl)
65.00	MW 45%M55%W w/show of oil	0.32

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

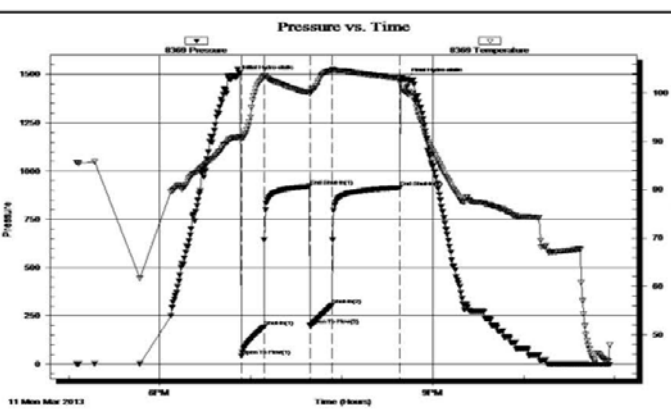
**DST #2 TORONTO - LKC 'C' 3100' - 3195'**

	<b>DRILL STEM TEST REPORT</b>	
	Brinker Enterprises LLC 216 S Marshall St Glen Elder Ks 67446 ATTN: Lee Brinker	<b>36-7s-20w Rooks</b> <b>Knipp SW #36-1</b> Job Ticket: 50368      DST#: 2 Test Start: 2013.03.11 @ 17:05:10

**GENERAL INFORMATION:**  
 Formation: Toronto-LKC A-C  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:53:50  
 Time Test Ended: 22:56:49  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Interval: 3100.00 ft (KB) To 3195.00 ft (KB) (TVD)  
 Reference Elevations: 1930.00 ft (KB)  
 Total Depth: 3195.00 ft (KB) (TVD)      1925.00 ft (CF)  
 Hole Diameter: 7.85 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8369** Inside  
 Press@RunDepth: 303.93 psig @ 3106.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.03.11      End Date: 2013.03.11  
 Start Time: 17:05:10      End Time: 22:56:49      Time On Btm: 2013.03.11 @ 18:50:05  
 Time Off Btm: 2013.03.11 @ 20:41:35

TEST COMMENT: 15-IFP-strg bl in 2min  
 30-ISIP-surface bl bk  
 15-FFP-strg bl in 3min  
 45-FSIP-no bl



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1487.71	90.87	Initial Hydro-static
4	42.23	90.60	Open To Flow(1)
19	192.76	103.35	Shut-In(1)
49	920.85	100.10	End Shut-In(1)
50	200.25	99.84	Open To Flow(2)
64	303.93	104.66	Shut-In(2)
108	913.46	103.11	End Shut-In(2)
112	1473.71	100.23	Final Hydro-static

Recovery		
Length(ft)	Description	Volume(bbl)
124.00	MW 5%M95%W w/show of oil	0.65
310.00	OCMW 10%O10%M80%W	4.35
124.00	OCWM 10%O40%W50%M	1.74
55.00	HOCM 20%O80%M	0.77

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

**DST #3 LKC E-G 3206' - 3233'**

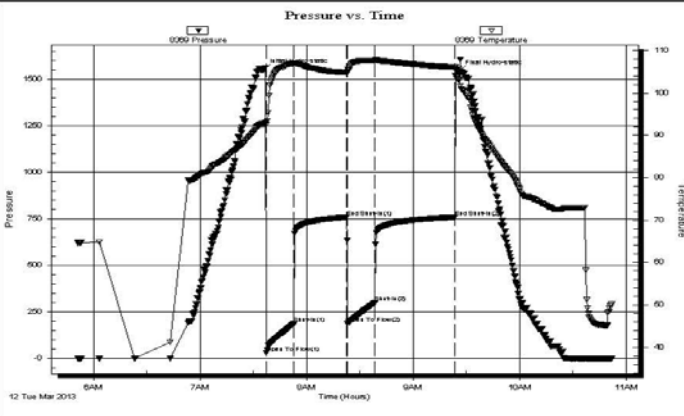
	<b>DRILL STEM TEST REPORT</b>	
	Brinker Enterprises LLC 216 S Marshall St Glen Elder Ks 67446 ATTN: Lee Brinker	<b>36-7s-20w Rooks</b> <b>Knipp SW #36-1</b> Job Ticket: 50369      DST#: 3 Test Start: 2013.03.12 @ 05:51:03

**GENERAL INFORMATION:**  
 Formation: LKC D-F  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:37:13  
 Time Test Ended: 10:51:42  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 42  
 Interval: 3206.00 ft (KB) To 3233.00 ft (KB) (TVD)  
 Reference Elevations: 1930.00 ft (KB)  
 Total Depth: 3233.00 ft (KB) (TVD)      1925.00 ft (CF)

Total Depth: 3235.00 ft (KB) (FVD) Hole Diameter: 7.85 inches Hole Condition: Fair KB to GR/CF: 1925.00 ft (CR) 5.00 ft

**Serial #: 8369** **Inside**  
 Press@RunDepth: 301.54 psig @ 3210.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.03.12 End Date: 2013.03.12 Last Calib.: 2013.03.12  
 Start Time: 05:51:03 End Time: 10:51:42 Time On Btm: 2013.03.12 @ 07:35:28  
 Time Off Btm: 2013.03.12 @ 09:25:28

TEST COMMENT: 15-IFP-strg bl in 3min  
 30-ISIP-no bl bk  
 15-FFP-strg bl in 4min  
 45-FSP-no bl bk



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.23	92.69	Initial Hydro-static
2	30.73	92.41	Open To Flow (1)
18	187.85	106.94	Shut-In(1)
47	760.34	104.79	End Shut-In(1)
48	190.87	105.06	Open To Flow (2)
63	301.54	107.65	Shut-In(2)
108	759.90	106.06	End Shut-In(2)
110	1543.57	103.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
500.00	Water	5.92
100.00	MW 30% M70% Ww /show of oil	1.40

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcft/d)

Recovery from multiple tests  
 Trilobite Testing, Inc Ref. No: 50369 Printed: 2013.03.12 @ 11:15:50

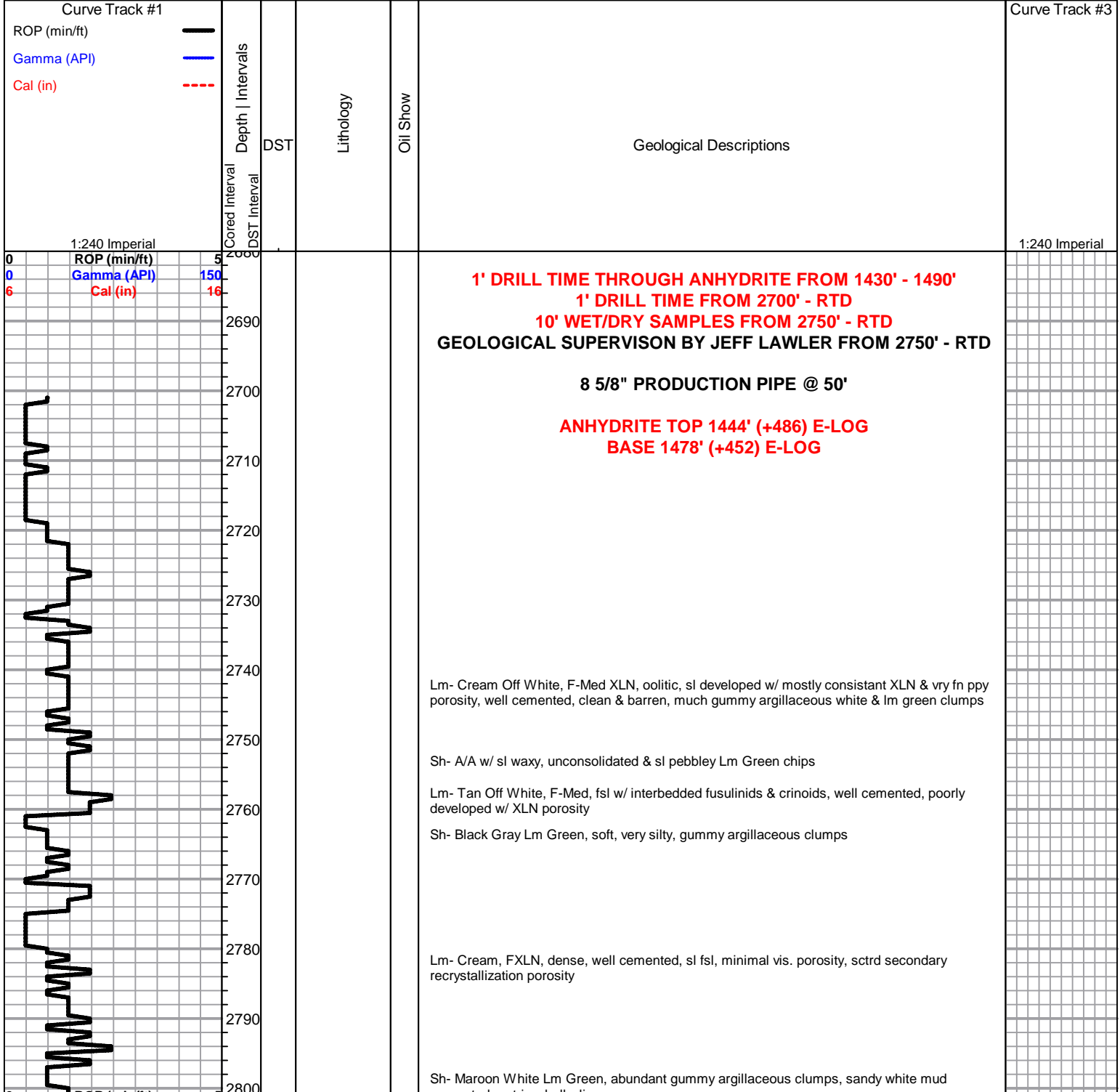
**DST #4 LKC H-J 3258' - 3325'**

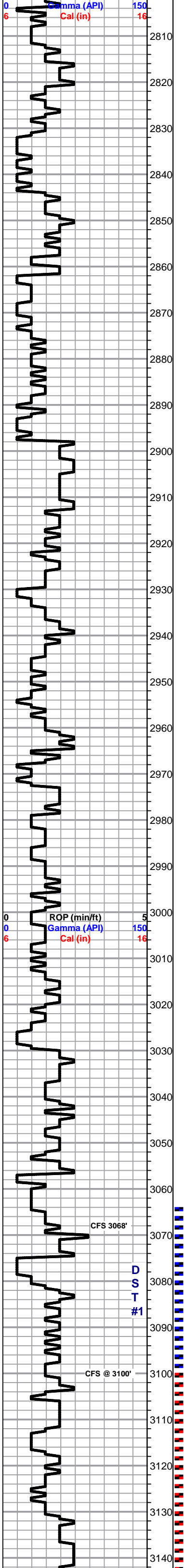
**ROCK TYPES**  
 Carbon Sh

**ACCESSORIES**  
**STRINGER**

**OTHER SYMBOLS**  
**DST**

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





2810 Sh- Maroon, gritty & earthy, gummy argillaceous clumps

2820 Lm- Lt Gray Buff, FXLN, dense, well cemented, fsl w/ fragments, tight cherty Ls, sctrd XLN porosity

2840 Sh/Ss- Lt & Drk Gray, soft, silty, some dense & well compacted, calcareous Ss- Dove Gray Lm Green, Fn Grn, friable, sl shaley, mostly consolidated & micaceous, NS

2850 Lm- Cream Gray, mix of mud supported, unconsolidated & pebbly and fsl w/ fragments, dense cherty Ls, trashy high-energy mix

2870 Sh/Ss- Abundant gummy argillaceous clumps, red, gray white Ss- Dove Gray, Vf-Fn Grn, sl shaley, loosely cemented, speckled w/ glauconite & sl micaceous

2880 Sh- Gray Maroon, abundant gummy argillaceous clumps

2900 **TOPEKA 2898' (-968) E-LOG** Lm- Gray Buff, FXLN, dense, well cemented, fsl, trashy high-energy mix

2920 Lm- Cream Off White, FXLN, sl fsl, dense, poorly developed, minimal vis. & sctrd XLN porosity

2930 Sh- Lt Gray White, soft, silty, calcareous, soft white chalk

2940 Lm- Cream Off White, FXLN, loosely cemented, gritty sl dolomitic Ls, dense, minimal vis. porosity

2940 Sh- Black, fissile, carbonaceous, Ss- Dove Gray Fn Grn, friable, sl shaley

2950 Ss- Dove Gray, Vf-Fn Grn, dense, loosely cemented, sl shaley, lt speckled w/ glauconite, NS

2960 Lm- Cream Off White, FXLN, fsl, poorly developed, mostly tight w/ minimal vis. porosity

2970 Sh/Ss- White, much soft white chalk Ss- Dove Gray, Fn Grn, loosely cemented, consolidated & well sorted, mod. developed, lt speckled w/ dark minerals, NS

2980 Lm- Cream Off White, FXLN, dense, mix of lithofied mud matrix w/ sctrd secondary recrystallization & small inclusions, mostly tight & poorly developed. sctrd XLN porosity

2990 Lm- Buff Lt Gray, FXLN, mix of sl cherty Ls, most sl fsl, few chips of gritty sl dolomitic Ls, all w/ minimal vis. to sctrd XLN porosity, most w/ sctrd mottling

3000 Sh- Black Gray White, fissile, slaty, carbonaceous, gummy argillaceous gray & white clumps

3010 Sh- White Maroon, soft white chalk & gummy sandy lime

3020 Lm- Cream Tan, Crypto-FXLN, dense, well cemented, mix of crypto XLN cherty Ls, sl speckled w/ pyrite inclusions, sl fsl, poorly developed, tight w/ minimal vis. porosity & gritty sl dolomitic cherty Ls, sctrd XLN porosity, clean & barren

3040 Sh- Black White Lt Gray Maroon, fissile, carbonaceous, gummy soft chalk, gritty & earthy

3050 Lm- Cream Off White, F-Med XLN, fsl, loosely cemented & crumbly, interbedded fusulinids, sctrd XLN porosity

3060 Dolomite- Cream, Med XLN, well cemented, moderately developed, mostly w/ GD vis. euhedral rhombs, consistant XLN porosity throughout, clean & barren, few chips of lt gray fresh bedded chert

3070 Lm- Cream Off White, Fn Grn, dense, mud supported matrix, heavily mottled

3080 Lm- Cream, Vf Grn & FXLN, mix of lithofied mud supported, moderately developed w/ sctrd ppt porosity & FXLN, dense, packed oolitic, moderately developed w/ sctrd ppt porosity, all w/ DRK SCTRDR STN, SL FLAKEY, VRY SL SFO, NO ODR

3090 Lm- Cream Off White, FXLN & Fn Grn, mix of heavily mottled, tight w/ minimal vis. porosity, chalky in part

3100 **HEEBNER 3103' (-1173) E-LOG** Sh- Black Maroon, vry fissile, carbonaceous, gritty & earthy

3120 Sh- Gray Maroon, gummy argillaceous clumps

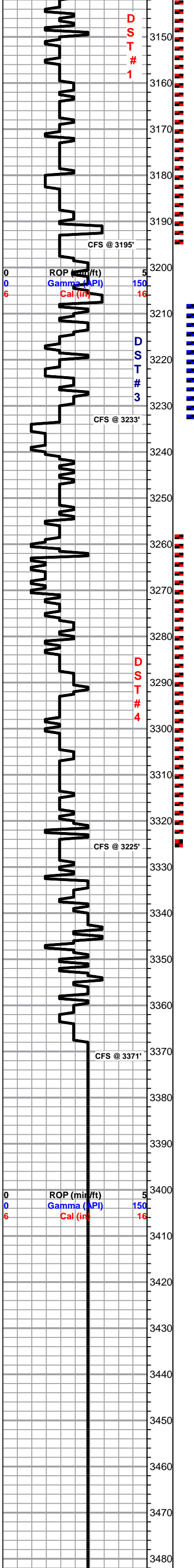
3130 **TORONTO 3128' (-1198) E-LOG** Lm- Off White White, F-MED XLN, fsl & sl oolitic, well developed w/ sctrd ppt porosity, SCTRDR DRK BRWN STN, FR SFO, VRY FNT ODR

3140 **LKC 3142' (-1212) E-LOG** Lm- White Off White, V5, FXLN, dense, well cemented, poorly

SHORT TRIP SURVEY 1 dgr. STRAP -0.28

DST #1 OREAD 3065' - 3100'





**LKC 3142 (-1212) E-LOG** Lm- White Off White, VF-FXLN, dense, well cemented, poorly developed, minimal vis. porosity, vry clean, few chips of Med XLN, well cemented dolomite, mostly consistant XLN porosity, clean & barren

Lm/Chert- White Off White, Crypto-FXLN, dense, well cemented, tight w/ no vis. porosity, few chips of bone white chert & few sl dolomitic chert

Lm- Cream Off White, FXLN, dense, well cemented, poorly developed w/ sctrd XLN porosity, sl chalky in part

Sh- Maroon Lt Gray Lm Green, gritty & earthy, gummy argillaceous clumps

Lm- Off White White, Med XLN, fsl & oolitic, well developed w/ GD mostly consistant ppt interoolitic porosity, SCTRD BRWN STN, SL SFO, SL SCUM ON TOP ON WET CUP, FR-GD ODR

Sh- Maroon, girty & earthy, few argillaceous clumps

Lm- Cream Tan, FXLN & Vf Grn, dense poorly developed mix, some sl chalky & crumbley w/ minimal vis. porosity, others w/ sctrd XLN porosity, clean & barren

Lm- Cream Off White, Fn Grn, dense, sl chalky in part, minimal vis. porosity

Lm- Cream Tan, FXLN, loosely cemented, well developed w/ consistant vry fn ppt porosity, SCTD STN, SL-FR SFO, GD ODR

Lm- Cream Off White, F-Med XLN, fsl & oolitic, sctrd development, sctrd XLN to sctrd ppt interoolitic porosity, some recrystallization inclusions & inter porosity recrystallization, SCTRD DRK STN, SL SFO, FR-GD ODR

Lm- White Off White, FXLN, dense, poorly developed, some chalky in part, minimal vis. to sctrd XLN porosity, vry clean & barren

Sh- Black Maroon Gray, fissile, carbonaceous, gummy gray clumps, gritty & earthy

Lm- Cream Tan, F-MED XLN, mix of well developed oolitic w/ GD interoolitic ppt porosity, SCTRD DRK STN, SL SFO, FR-GD ODR, gradates into well developed vry fn ppt porosity throughout, loosely cemented, SAT DRK STN, GD SFO, FEW BLEEDING, FR-GD ODR

Lm- Cream w/ Lt Green tint, Vf Grn, dense algal Ls, no vis. porosity

Sh- Gray Lm Green Maroon, gritty slivers, gritty & earthy, sl waxy

Lm- Tan, Vf Grn, dense, well cemented, lithofied mud matrix, sctrd development w/ sctrd vry fn ppt porosity, SCTRD DRK STN, VRY SL SFO, PR-FR ODR

Sh- Maroon Gray, gritty & earthy

Lm- Cream Off White, F-Med XLN, fsl & oolitic, moderately developed w/ sctrd fn ppt interoolitic porosity, some w/ only XLN, sl chalky in part, WK SPOTTY FLAKEY STN, NO SFO, PR ODR

Lm- Off White, VF-FXLN, moderately developed, well cemented, sctrd fn ppt porosity, SCTRD DRK STN, SL-FR SFO, SOME GASYY BUBBLES, FR ODR

Sh- Black Maroon Lm Green Gray, fissile, sl silty, carbonaceous, soft, calcareous, gummy argillaceous red clumps, gritty & earthy

Lm- Ivory Cream, VF-Med XLN, mix of tight VFXLN w/o vis. porosity, sctrd soft white chalk, & sl fsl, sl developed w/ sctrd fn ppt porosity, loosely cemented, SCTRD LT STN, SL SFO, FEW GAS BUBBLES, FNT-PR ODR

Sh- Black Gray Maroon, fissile, carbonaceous, gritty & earthy, sl waxy

Lm- Cream, FXLN, dense, sl fsl, loosely cemented, sctrd XLN porosity, clean & barren

**BKC 3349' (-1419) E-LOG** Sh- Red, gummy argillaceous clumps, sandy shaley & lime

Conglomerate- White shaley conglomerate, some sl sandy

Lm- White Off White, FXLN, sl oolitic, poorly developed w/ sctrd XLN porosity & rare fn ppt interoolitic porosity, well cemented, WK SPOTTY STN, NO SFO, NO ODR

Sand- Clear to Sl Frosted, angular to sub-angular, mostly loose ind. grains, 3-4 friable clusters w/ minimal dolomitic cementation & rare glauconite inclusions/speckling, NO VIS. STN, NO SFO, PR-FR ODR, CLUSTERS W/ STREAMING YELLOW FLOR & HALO WET CUT

**DST #2**  
**TORONTO & LKC A-C**  
**3100' - 3195'**

**DST #3**  
**LKC E-G**  
**3206' - 3233'**

**DST #4**  
**LKC H-J**  
**3258' - 3325'**

