

OPERATOR

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

Contact Geologist: ANDY WERTH
 Contact Phone Nbr: 785-625-4968
 Well Name: WALZ-MUSTANG SOL # 11
 Location: NW SE NE SE Sec.7-11s-20w
 Pool:
 State: KANSAS
 API: 15-051-26,654-00-00
 Field: UNNAMED
 Country: USA

Scale 1:240 Imperial

Well Name: WALZ-MUSTANG SOL # 11
 Surface Location: NW SE NE SE Sec.7-11s-20w
 Bottom Location:
 API: 15-051-26,654-00-00
 License Number: 30259
 Spud Date: 1/14/2014 Time: 2:45 PM
 Region: ELLIS COUNTY
 Drilling Completed: 1/23/2014 Time: 6:05 AM
 Surface Coordinates: 1927' FSL & 346' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2054.50ft
 K.B. Elevation: 2062.00ft
 Logged Interval: 3000.00ft To: 3725.00ft
 Total Depth: 3725.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.575178 Latitude: 39.1077009
 N/S Co-ord: 1927' FSL
 E/W Co-ord: 346' FEL

LOGGED BY

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

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

CONTRACTOR

Contractor: SKYTOP DRILLING LLC
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 1/14/2014 Time: 2:45 PM
 TD Date: 1/23/2014 Time: 6:05 AM
 Rig Release: 1/24/2014 Time: 3:00 PM

ELEVATIONS

K.B. Elevation: 2062.00ft Ground Elevation: 2054.50ft
 K.B. to Ground: 7.50ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON NEGATIVE RESULTS OF DRILL STEM TESTS AND LOG ANALYSIS

OPEN HOLE LOGGING BY NABORS COMPLETION & PRODUCTION SERVICES CO: DUAL INDUCTION LOG, COMPENSATED DENSITY/NEUTRON LOG, MICRO LOG

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

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

WALZ-MUSTANG SOL #11
NW SE NE SE
SEC. 7-11S-20W
2054.5'GL 2062'KB


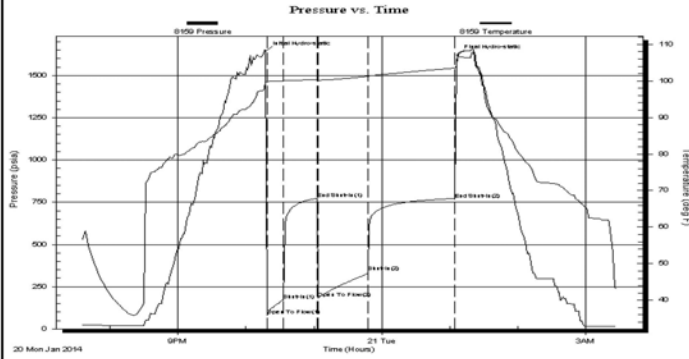
MIXER # 1
SE NE SE
SEC. 7-11S-20W

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>COMPARISON</u>
Anhydrite	1504 +558	1504 +558	+ 547
B-Anhydrite	1545 +517	1544 +518	+ 518
Topeka	3096-1034	3098-1036	-1045
Heebner Shale	3306-1244	3306-1244	-1253
Toronto	3326-1264	3327-1265	-1273
LKC	3343-1281	3344-1282	-1291
BKC	3561-1499	3565-1503	-1511
Simpson Shale		3638-1576	-1576
Arbuckle		3654-1592	-1587
RTD	3725-1663	3726-1664	-1591


SUMMARY OF DAILY ACTIVITY

- 1-15-14 RU, Spud 2:45 PM,
- 1-16-14 244', set 8 5/8" surface casing to 243' w/160 sxs Common 2%Gel
3%CC, WOC 8 hrs, drill plug at 1:45 PM
- 1-17-14 840', drilling
- 1-18-14 1665', drilling
- 1-19-14 2375', drilling
- 1-20-14 2965', drilling, displaced at 3000'
- 1-21-14 3336', drilling, CFS 3336' short trip, CFS 3390', CFS 3410', DST # 1
3368'-3410' "C-D" LKC
- 1-22-14 3410', TIWB, drilling, CFS 3614', CFS 3644', CFS 3652'
- 1-23-14 3725', RTD 6:05 AM, short trip, TOWB, slope 1 degree, logs, DST #2
straddle 3657'-3675' Arbuckle
- 1-24-14 3725', finish DST # 2, decision to plug and abandon well

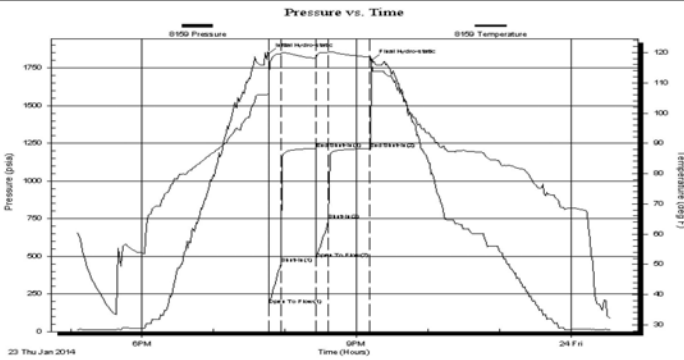
DST # 1 3657' TO 3675' "C" AND "D" ZONE OF LKC

	DRILL STEM TEST REPORT																																						
	Werth Exploration Trust 1308 Schw aller Avenue Hays, Kansas 67801 ATTN: Herb Deines	7/11S/20W/Ellis Walz-Mustang SOL #11 Job Ticket: 19191 DST#: 1 Test Start: 2014.01.20 @ 19:35:00																																					
GENERAL INFORMATION:																																							
Formation: Lansing/Kansas City Deviated: No Whipstock: ft (KB) Time Tool Opened: 22:18:00 Time Test Ended: 03:27:00		Test Type: Conventional Bottom Hole (Initial) Tester: Ken Swinney Unit No: 3330 Hays/50 Reference Elevations: 2062.00 ft (KB) 2055.00 ft (CF) KB to GR/CF: 7.00 ft																																					
Interval: 3368.00 ft (KB) To 3410.00 ft (KB) (TVD) Total Depth: 3410.00 ft (KB) (TVD) Hole Diameter: 7.80 inchesHole Condition: Poor																																							
Serial #: 8159 Outside Press@RunDepth: 767.86 psia @ 3407.00 ft (KB) Start Date: 2014.01.20 End Date: 2014.01.21 Start Time: 19:35:00 End Time: 03:27:00		Capacity: 5000.00 psia Last Calib.: 2014.01.20 Time On Btm: 2014.01.20 @ 22:17:30 Time Off Btm: 2014.01.21 @ 01:07:00																																					
TEST COMMENT: 1ST Open 15 Minutes/Good blow /Blow built to bottom of bucket of diesel in 4 minutes 30 seconds 1ST Shut In 30 Minutes/Weak surface blow back 2ND Open 45 Minutes/Good Blow /Blow built to bottom of bucket of diesel in 7 minutes 30 seconds 2ND Shut In 75 Minutes/Blow back built to 1 inch																																							
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Superior Testers Enterprises LLC Ref. No: 19191		Printed: 2014.01.20 @ 03:50:55																																					

DST # 2 3657' TO 3675' ARBUCKLE STRADDLE TEST BOTTOM PACKER HELD

	DRILL STEM TEST REPORT		
	Werth Exploration Trust 1308 Schw aller Avenue Hays, Kansas 67801 ATTN: Herb Deines	7/11S/20W/Ellis Walz-Mustang SOL #11 Job Ticket: 19192 DST#: 2 Test Start: 2014.01.23 @ 17:05:00	
GENERAL INFORMATION:			
Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 19:46:30 Time Test Ended: 00:34:00		Test Type: Conventional Straddle (Initial) Tester: Ken Swinney Unit No: 3330 Hays/50 Reference Elevations: 2062.00 ft (KB) 2055.00 ft (CF) KB to GR/CF: 7.00 ft	
Interval: 3657.00 ft (KB) To 3675.00 ft (KB) (TVD) Total Depth: 3675.00 ft (KB) (TVD) Hole Diameter: 7.80 inchesHole Condition: Fair			
Serial #: 8159 Inside Press@RunDepth: 743.85 psia @ 3669.00 ft (KB) Start Date: 2014.01.23 End Date: 2014.01.24 Start Time: 17:05:00 End Time: 00:34:00		Capacity: 5000.00 psia Last Calib.: 2014.01.22 Time On Btm: 2014.01.23 @ 19:46:00 Time Off Btm: 2014.01.23 @ 21:13:00	

TEST COMMENT: 1ST Open 10 Minutes/Strong blow /Blow built to bottom of bucket of diesel in 50 seconds
 1ST Shut In 30 Minutes/Blow back built to 1/2 inch
 2ND Open 10 Minutes/Strong blow /Blow built to bottom of bucket of diesel in 45 seconds
 2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1847.82	106.55	Initial Hydro-static
1	178.17	112.06	Open To Flow (1)
11	453.42	119.61	Shut-In(1)
40	1215.19	118.06	End Shut-In(1)
40	486.30	118.06	Open To Flow (2)
51	743.85	120.08	Shut-In(2)
85	1214.76	118.54	End Shut-In(2)
87	1804.80	114.29	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1426.00	Mud cut Water with show of oil	18.64
0.00	Mud 3% Water 97%	0.00
0.00	Recov. Chlorides 32,000 ppm	0.00
0.00	Recov. Resist .28 ohms @ 50 deg	0.00

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

Superior Testers Enterprises LLC

Ref. No: 19192

Printed: 2014.01.22 @ 01:09:38

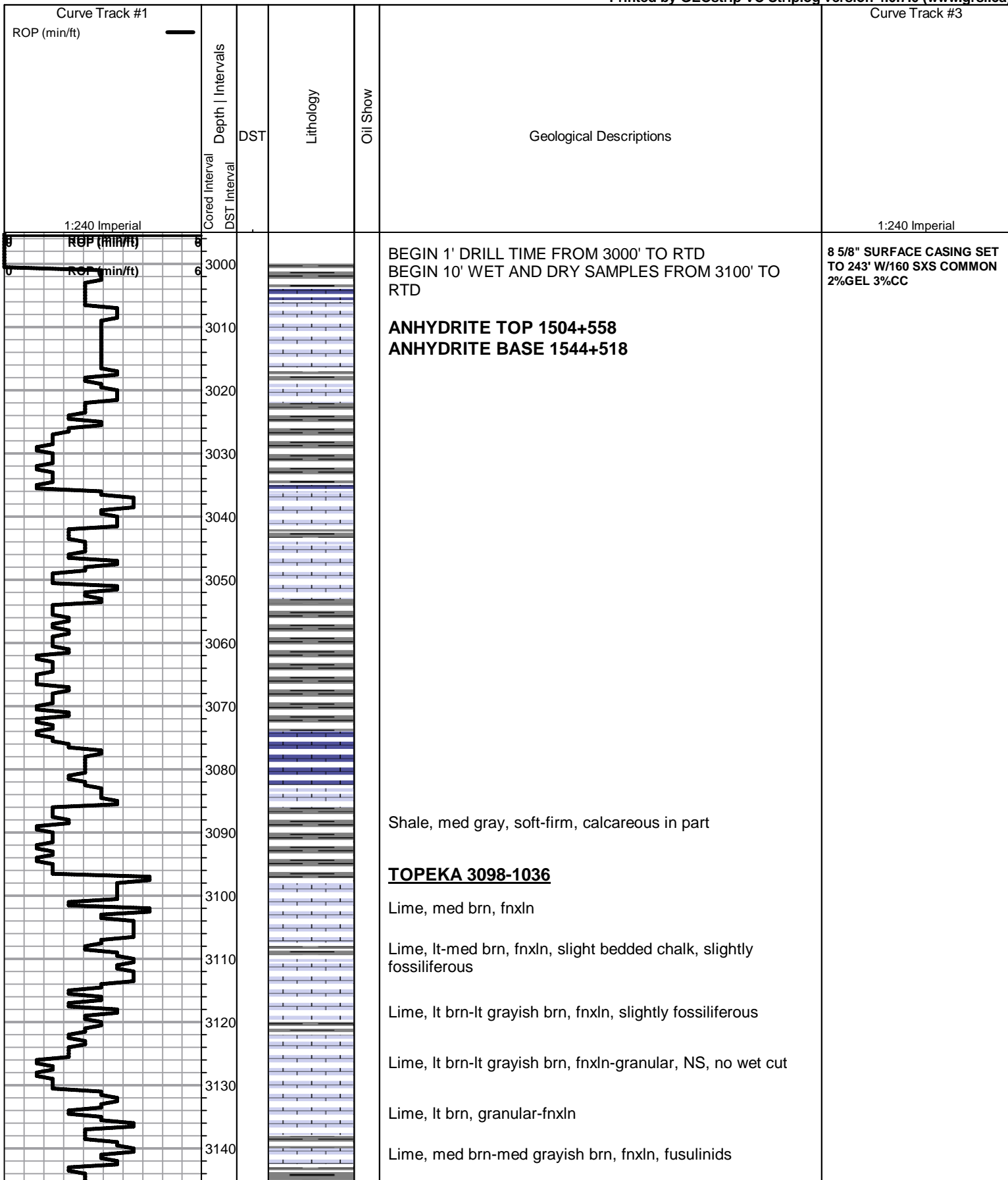
ROCK TYPES

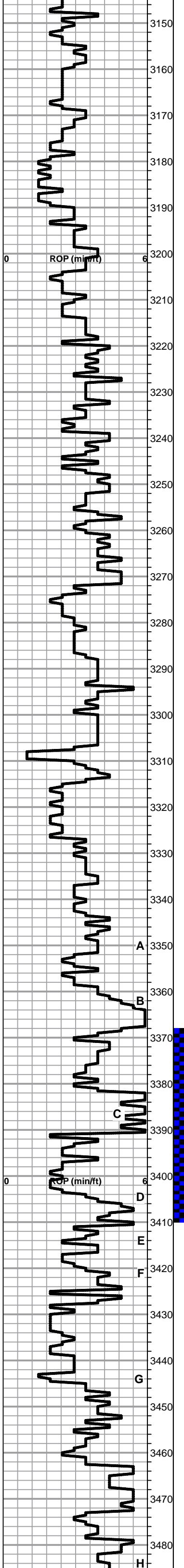
Clystgy	Dolprim	Lmst fw<7	shale, grn	shale, red
Clystcol	Dolsec	Lmst fw7>	shale, gry	
Chtcongl	Dol Lime	Lscongl	Carbon Sh	

ACCESSORIES

- MINERAL**
 Z Nodules
 P Pyrite
 Varicolored chert
 Chert White

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





Lime, lt-med brn, fnxln, fossiliferous in part

Lime, lt-med brn, fn-granular in part, slightly fossiliferous, calcareous shale in part

Lime, lt-med brn, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln-granular, slightly fossiliferous, bedded chalk with sticky clumps in part, lt white chalk wash

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

Shale, black carbonaceous
Lime, lt-med brn, fnxln, slightly fossiliferous

Lime, lt brn, fn-vfxln, hard on crush, slightly fossiliferous

Lime, tan-lt brn, fnxln, slightly fossiliferous, scattered bedded chalk

Lime, lt-med brn, fnxln, fusulinids, increasing gray tint and shaley near lime-shale boundary

Lime, lt grn-lt gray, vfxln

Shale, black carbonaceous

Lime, lt brn, fn-vfxln, slightly fossiliferous

Lime, tan-lt brn, fn-vfxln, slight bedded chalk

Lime, tan-lt brn, fnxln

Lime, tan-lt brn, fnxln, slight bedded chalk, NS

Lime, tan-lt brn, fnxln, slight bedded chalk

Lime, tan-lt brn, fnxln, slight bedded chalk

HEEBNER SHALE 3306-1244
Shale, black carbonaceous, fissile, blocky
Lime, lt brn, vfxln, slightly fossiliferous, well cemented

Shale, reddish brn grading into lime green soft shale

TORONTO 3327-1265
Lime, tan-lt brn, fnxln, few granular chips with slight chalk, NS, scattered fossils

LKC 3344-1282
Lime, crm, fn-vfxln, slightly fossiliferous, slight bedded chalk, NS, No Odor

Lime, crm-tan, fnxln-granular with lt chalk wash, NS

Lime, crm-tan, fn-vfxln, bedded chalk, tan chert, fresh, sharp

Lime, tan, fnxln, with few chips oolitic/fossil fragments, scattered stain with lt odor

Lime, crm-tan, fnxln, bedded chalk

Shale, med gray, firm blocky

Lime, crm-tan, fnxln with few chips oolitic, lt scattered staining, no odor, NFO

Lime, crm-tan, fnxln, bedded chalk

Shale, black carbonaceous, blocky
Lime, pale gray tint, fnxln
Shale, lt gray, forming soft mud

Lime, crm-tan, fnxln, bedded chalk, 2 chips with spotty stain, appears poorly developed

Lime, tan-lt brn, fnxln-granular, bedded chalk, NS

Lime, crm-tan, fnxln-granular, lot of bedded chalk, NS

Lime, crm-tan, fn-vfxln, slight bedded chalk content

Lime, med brn, fnxln

Shale, black carbonaceous
Lime, crm-tan, fnxln

Lime, crm-tan, fn-vfxln, NS

SHORT TRIP 3336'

DST # 1 3363' TO 3410' "C-D"
SEE HEADER FOR TEST SUMMARY

CFS 3390'

CFS 3410'

