

OPERATOR

Company: CARRIE EXPLORATION _DEVELOPMENT, A GENERAL PARTNERSHIP
Address: 210 W 22ND STREET
HAYS, KANSAS 67601

Contact Geologist: RON HEROLD
Contact Phone Nbr: 913-961-2760
Well Name: LUNDGREN # C-2
Location: SE NE NW NW Sec.25-19s-11w
Pool: WILDCAT
State: KANSAS
API: 15-009-25707-00-00
Field: CHASE-SILICA
Country: USA

Scale 1:240 Imperial

Well Name: LUNDGREN # C-2
Surface Location: SE NE NW NW Sec.25-19s-11w
Bottom Location:
API: 15-009-25707-00-00
License Number: 6768
Spud Date: 7/9/2012
Region: BARTON COUNTY
Drilling Completed: 7/13/2012
Surface Coordinates: 438' FNL & 1168' FWL
Bottom Hole Coordinates:
Ground Elevation: 1769.00ft
K.B. Elevation: 1778.00ft
Logged Interval: 2500.00ft
Total Depth: 3400.00ft
Formation: ARBUCKLE
Drilling Fluid Type: FRESH WATER/CHEMICAL GEL
Time: 1:30 PM
Time: 4:58 PM
To: 3400.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude:
N/S Co-ord: 438' FNL
E/W Co-ord: 1168' FWL
Latitude:

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: SOUTHWIND DRILLING, INC.
Rig #: 2
Rig Type: MUD ROTARY
Spud Date: 7/9/2012
TD Date: 7/13/2012
Rig Release: 7/14/2012
Time: 1:30 PM
Time: 4:58 PM
Time: 3:00 PM

ELEVATIONS

K.B. Elevation: 1778.00ft
K.B. to Ground: 9.00ft
Ground Elevation: 1769.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL DUE TO NEGATIVE RESULTS OF THREE DST'S WHICH

FORMATION TOPS SUMMARY AND DAILY ACTIVITY REPORT

LUNDGREN #C-2
438' FNL & 1168' FWL, NW/4
Sec.25-19s-11w
1769' GL 1778' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Topeka	2626- 848	2627- 849
Heebner Shale	2889-1111	2890-1112
Toronto	2911-1133	2911-1133
Douglas Shale	2921-1143	2922-1144
Brown Lime	3014-1236	3014-1236
LKC	3034-1256	3034-1256
BKC		3287-1509
Arbuckle	3304-1526	3303-1525
RTD	3400-1622	
LTD		3402-1624

7-09-12	RU, Spud, set surface casing to 258' w/175 sxs. Common, 2%gel, 3%CC, Slope survey 1 degree, WOC 8 hrs. Plug down 5:00PM, Allied Cementing Ticket # 53708
7-10-12	814', drilling
7-11-12	2375', drilling
7-12-12	3105', drilling, DST # 1
7-13-12	3318', drilling, DST # 2, RTD, Logs
7-14-12	3400', DST #3 straddle test, P & A

DST # 1 SUMMARY



DRILL STEM TEST REPORT

Carrie Exploration & Development & General Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17362

DST#: 1

ATTN:

Test Start: 2012.07.12 @ 11:40:00

GENERAL INFORMATION:

Formation: **Lansing a,b,c,d,e,f,**

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

Time Tool Opened: 13:07:30

Time Test Ended: 16:50:00

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Jared Scheck**

Unit No: **3320-Great Bend-80**

Interval: **3052.00 ft (KB) To 3150.00 ft (KB) (TVD)**

Total Depth: **3150.00 ft (KB) (TVD)**

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

Reference Elevations: **1778.00 ft (KB)**

1769.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: **76.69 psia @ ft (KB)**

Start Date: **2012.07.12**

End Date:

2012.07.12

Capacity: **5000.00 psia**

Last Calib.: **2012.07.12**

Start Time: **11:40:00**

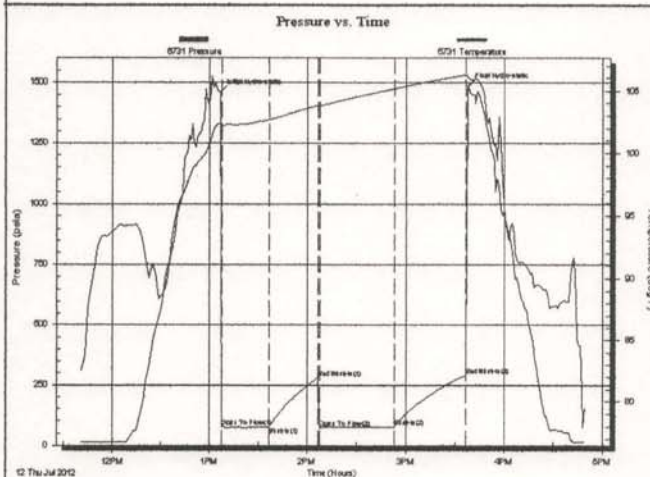
End Time:

16:50:00

Time On Btm: **2012.07.12 @ 13:06:30**

Time Off Btm: **2012.07.12 @ 15:38:00**

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 7 minutes
1st Shut-in 30 Minutes-No blow back
2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minutes
2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1458.69	102.36	Initial Hydro-static
1	72.98	102.20	Open To Flow (1)
30	73.95	102.71	Shut-In(1)
60	277.69	103.82	End Shut-In(1)
61	72.44	103.80	Open To Flow (2)
106	76.69	105.17	Shut-In(2)
150	290.45	106.25	End Shut-In(2)
152	1486.04	105.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy oil cut mud 5%gas 5%oil 90%mud	0.42
0.00	960 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DST # 2 SUMMARY

	DRILL STEM TEST REPORT Carrie Exploration & Development & General Partnership 210 w 22nd Hays KS 67601 ATTN: 25-19-11 Barton Lundgren #c-2 Job Ticket: 17363 DST#: 2 Test Start: 2012.07.13 @ 06:58:00
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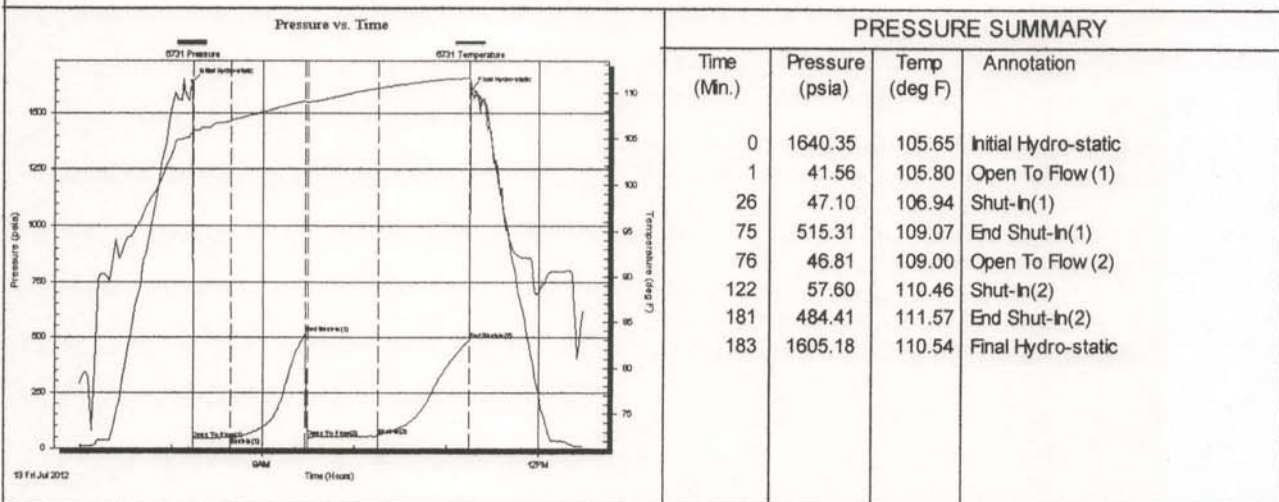
GENERAL INFORMATION:

Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 08:14:30 Time Test Ended: 12:30:00 Interval: 3282.00 ft (KB) To 3318.00 ft (KB) (TVD) Total Depth: 3318.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole (Initial) Tester: Jared Scheck Unit No: 3320-Great Bend-70 Reference Elevations: 1778.00 ft (KB) 1769.00 ft (CF) KB to GR/CF: 9.00 ft
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Serial #: 6731

Press@RunDepth: 57.60 psia @ ft (KB)	Capacity: 5000.00 psia
Start Date: 2012.07.13	Last Calib.: 2012.07.13
Start Time: 06:58:00	Time On Btm: 2012.07.13 @ 08:13:30
End Date: 2012.07.13	Time Off Btm: 2012.07.13 @ 11:16:00
End Time: 12:30:00	

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 8 inches into water in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 23 minutes
 2nd Shut-in 60 Minutes-No blow back



Recovery		
Length (ft)	Description	Volume (bbl)
35.00	oil mud cut gas 30% mud 30% oil 40% gas	0.49
0.00	200 feet gas in pipe	0.00

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



DRILL STEM TEST REPORT

Carrie Exploration & Development & General
Partnership
210 W 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17364

DST#: 3

ATTN:

Test Start: 2012.07.14 @ 01:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:12:30

Time Test Ended: 06:35:00

Test Type: Conventional Straddle (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-70

Interval: **3316.00 ft (KB) To 3332.00 ft (KB) (TVD)**

Total Depth: 3402.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1778.00 ft (KB)

1769.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 48.71 psia @ ft (KB)

Start Date: 2012.07.14

End Date: 2012.07.14

Capacity: 5000.00 psia

Last Calib.: 2012.07.14

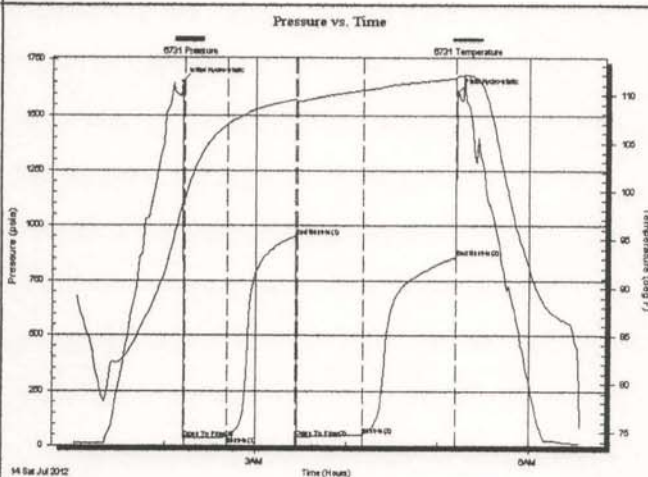
Start Time: 01:00:00

End Time: 06:35:00

Time On Btm: 2012.07.14 @ 02:11:30

Time Off Btm: 2012.07.14 @ 05:13:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 30 minutes
1st Shut-in 45 Minutes-No blow back
2nd Opening 45 Minutes-Strong blow built bottom of bucket in 12 minutes
2nd Shut-in 60 Minutes-Very weak



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1651.37	98.72	Initial Hydro-static
1	33.65	98.93	Open To Flow (1)
30	39.27	106.91	Shut-In(1)
75	950.95	109.56	End Shut-In(1)
76	38.49	109.33	Open To Flow (2)
119	48.71	110.48	Shut-In(2)
181	858.98	111.66	End Shut-In(2)
182	1606.95	111.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	muddy oil 30% mud 70% oil	0.84
0.00	300 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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ROCK TYPES

	Dolprim		Lmst fw7>		Carbon Sh		Ss
	Dolsec		shale, grn		shale, red		Lscongl
	Lmst fw<7		shale, gry		Shcol		

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- △ Chert White
- ▧ Euhed rhombs of dol or i

FOSSIL

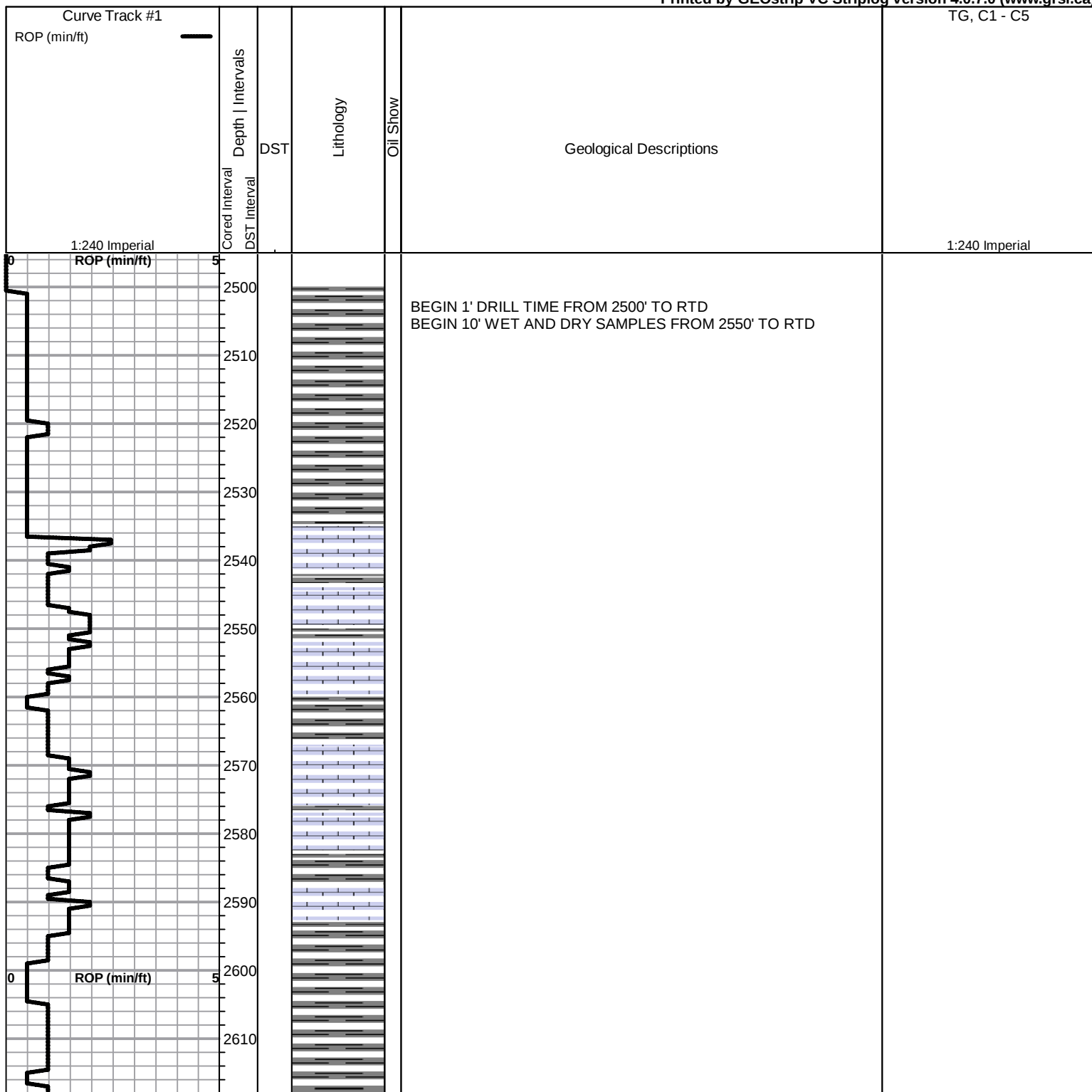
- Oolite
- ⦿ Oomoldic

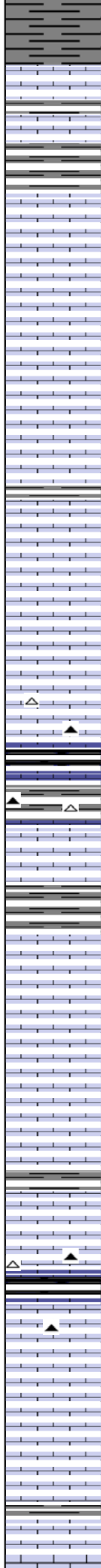
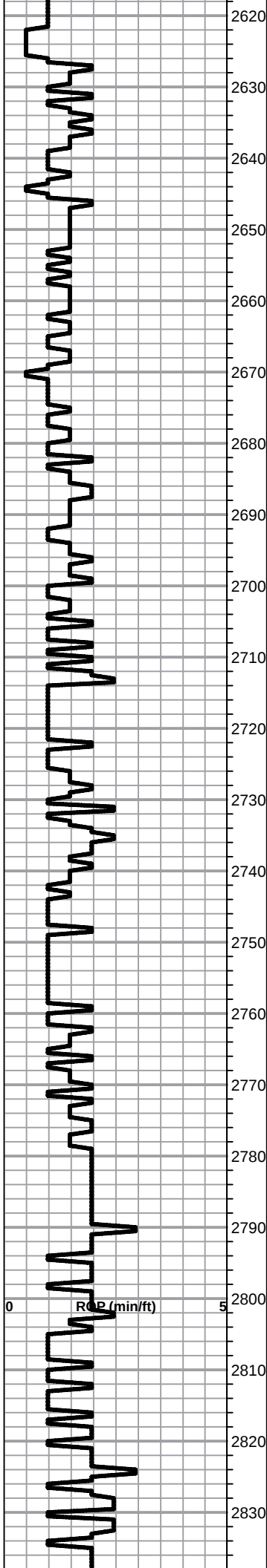
OTHER SYMBOLS

DST

- DST Int
- DST alt
- Core

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





TOPEKA SPL 2626-848 ELog 2627-849

Lime, lt-med brn, fnxln

Shale, med gray, soft blocky

Lime, lt-med brn, fnxln

Lime, lt-med brn-lt gray, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln, fusulinids

Lime, lt-med brn, fnxln, fusulinids

Lime, lt-med brn-grayish brn, fnxln-granular, slightly fossiliferous

Lime, lt-med brn, fnxln-granular, slightly fossiliferous

Lime, lt-med brn, fnxln-granular

Shale, black carbonaceous

Shale, gray, soft sticky

Lime, med gray, fnxln

Shale, gray, calcareous

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

Lime, lt-med brn, fnxln-granular, NS

Lime, crm-lt brn, fnxln-granular, slightly fossiliferous, slight chalk

Lime, lt-med brn, fnxln

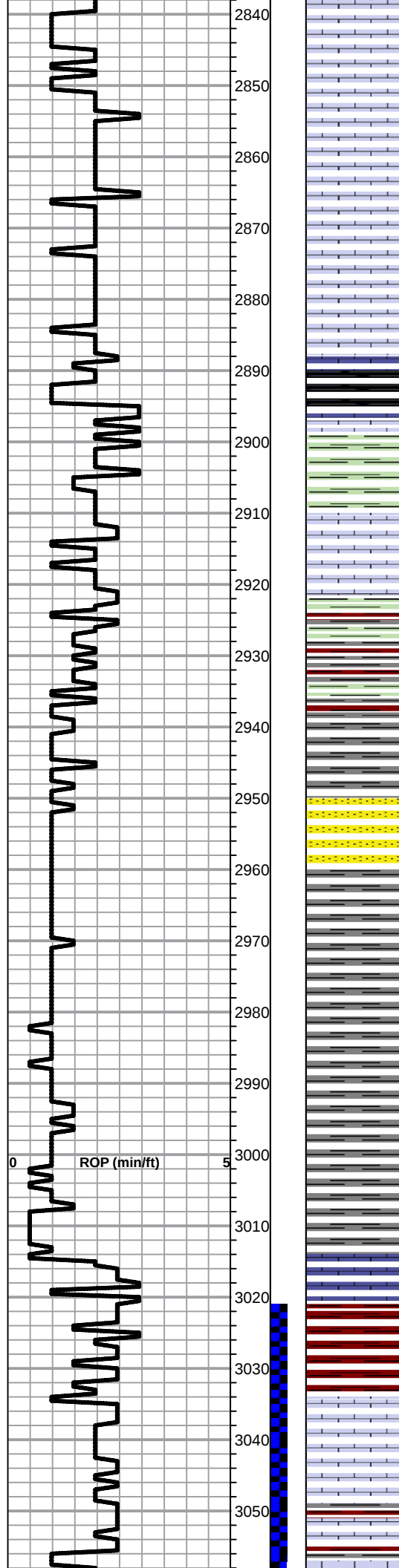
Shale gray to black carbonaceous

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

Lime, lt-med brn, fnxln-granular

Lime, lt-med brn-grayish brn, fnxln

FINISH DISPLACEMENT



Lime, lt-med brn, mostly fnxln

Lime, lt-med brn, fnxln

Lime, lt-med brn-grayish brn, fnxln

Lime, lt-med brn-grayish brn, fnxln

HEEBNER SHALE SPL 2889-1111 ELog 2890-1112

Shale, black carbonaceous
Lime, med-dark brn, fn-vfxln

Shale, lt gray-lime green, soft

TORONTO SPL 2911-1133 ELog 2911-1133

Lime, lt-med grn, granular, NS, No Odor, No staining

DOUGLAS SHALE SPL 2921-1143 ELog 2922-1144

Shale, red, grn, gray, soft

Shale, mix of color, forms soft mud balls

Shale, lt-med gray, soft blocky

Sandstone, very fine grained, poorly sorted, gritty, bleeding oil globules in part. Sandstone judged too poorly developed to be economic.

Shale,lt-med gray, soft blocky with very thin bedding planes in part

Shale, lt-med gray, soft blocky

Shale, lt-med gray, soft forming mud balls in part

BROWN LIME SPL 3014-1236 ELog 3014-1236

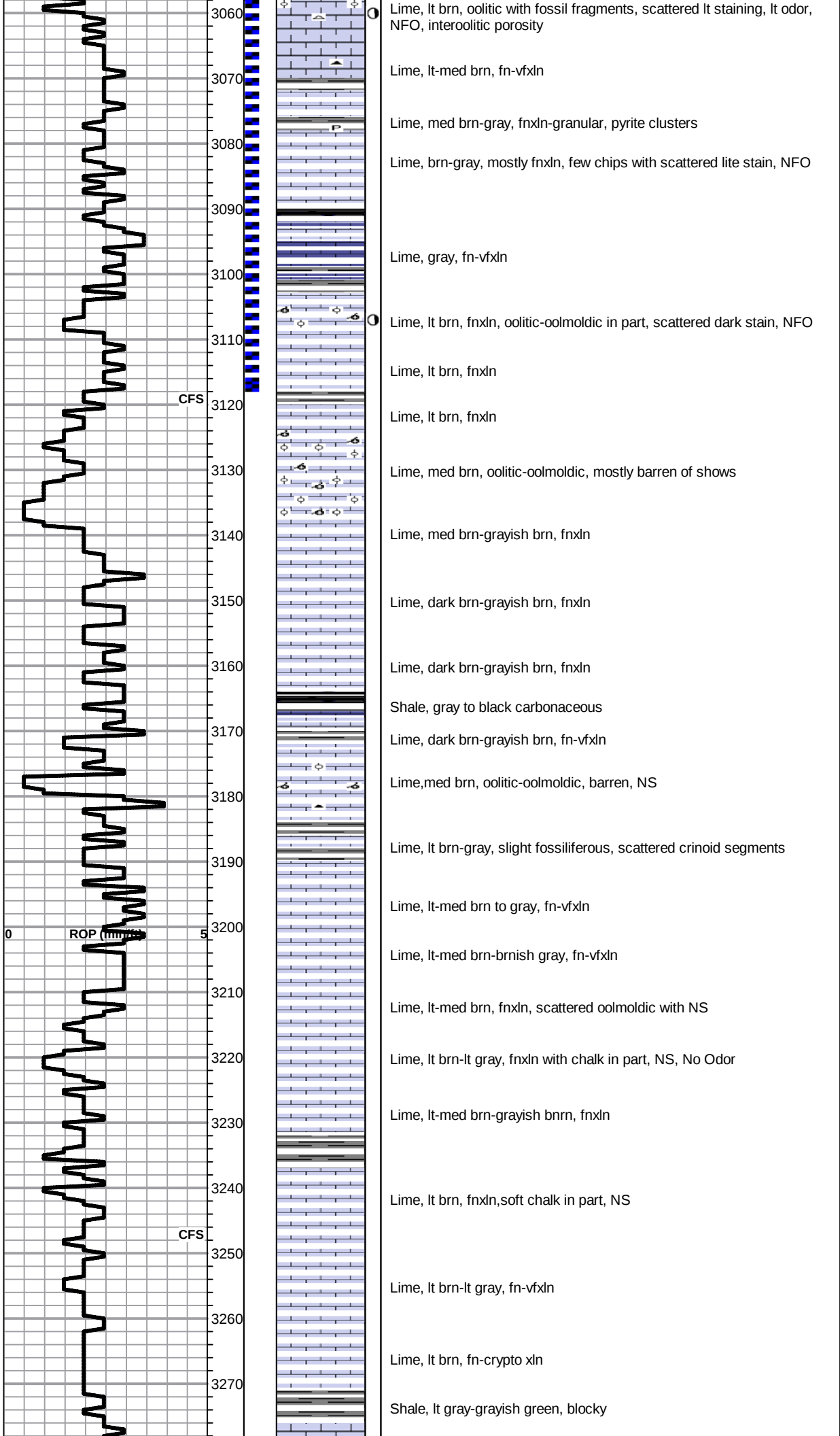
Lime, brn, fn-vfxln, fossiliferous

Shale, mostly reddish brn, soft

LKC SPL 3034-1256 ELog 3034-1256

Lime, crm-lt brn, mostly fnxln with slight chalk in part, Lt Odor, NFO with spotty stain. Zone appears poorly developed.

Lime, lt brn, fnxln



[SEE HEADER FOR TEST DETAILS](#)

