



CHISHOLM — PARTNERS —

Scale 1:240 Imperial

Well Name: NIGHSWONGER #9-1
Surface Location: NE NW SW Sec. 9 - 7S - 23W
Bottom Location:
API: 15-065-24074-00-00
License Number: 34622
Spud Date: 11/19/2014 Time: 2:00 PM
Region: GRAHAM COUNTY KANSAS
Drilling Completed: 1/12/2014 Time: 5:50 PM
Surface Coordinates: 2310' FSL & 990' FWL
Bottom Hole Coordinates:
Ground Elevation: 2442.00ft
K.B. Elevation: 2450.00ft
Logged Interval: 3350.00ft To: 4000.00ft
Total Depth: 4000.00ft
Formation: LANSING KANSAS CITY
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: CHISHOLM PARTNERS II, LLC
Address: 1010 10TH ST
GOLDEN, CO 80401

Contact Geologist: RICHARD MCKEE
Contact Phone Nbr: (620) 968-7741
Well Name: NIGHSWONGER #9-1
Location: NE NW SW Sec. 9 - 7S - 23W
API: 15-065-24074-00-00
Pool:
State: KANSAS

Field: UNNAMED
Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.8972119
Latitude: 39.4577716
N/S Co-ord: 2310' FSL
E/W Co-ord: 990' FWL

LOGGED BY

Company: BIG CREEK CONSULTING, INC.
Address: 1909 MAPLE
ELLIS, KS 67637

Phone Nbr: (785) 259-3737
Logged By: Geologist

Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
Rig #: 12

Rig Type: MUD ROTARY
 Spud Date: 11/19/2014
 TD Date: 1/12/2014
 Rig Release: 11/26/2014

Time: 2:00 PM
 Time: 5:50 PM
 Time: 9:30 PM

ELEVATIONS

K.B. Elevation: 2450.00ft
 K.B. to Ground: 8.00ft

Ground Elevation: 2442.00ft

NOTES

****NOTE: THERE IS AN ~2' - 4' UPHOLE CORRECTION TO CORRELATE DRILL TIME WITH POROSITY LOG CURVES****


DUE TO A LACK OF ECONOMICAL RECOVERY ON DRILL STEM TESTS IT WAS SUGGESTED AND AGREED BY ALL PARTIES TO PLUG AND ABANDON THE NIGHSWONGER #9-1.

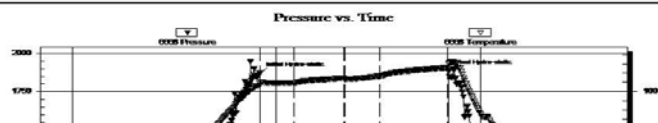
RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

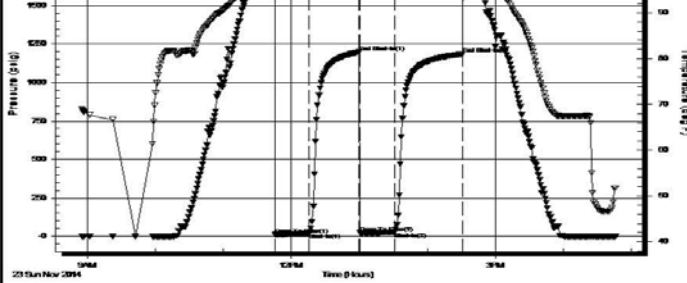
	NIGHSWONGER 9-1				MORRIS TRUST #9-1				BRANT #1				MILLS #1				ROBERTS #8-1			
	NE SE NW 9-7-23				NE SE NW 9-7-23				W2 NW SE 9-7-23				SW SW SE 9-7-23				NE NE SE 8-7-23			
	KB	2450	GL	2442	KB	2444	LOG	SMPL	KB	2439	LOG	SMPL	KB	2462	LOG	SMPL	KB	2424	LOG	SMPL
	LOG TOPS	SAMPLETOPS	LOGS	LOG	SMPL	COMP. CARD	LOG	SMPL	LOGS	LOG	SMPL	LOGS	LOG	SMPL	LOGS	LOG	SMPL			
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	2140	310	2142	308	2125	319	- 9	- 11	2131	308	+ 2	+ 0	2150	312	- 2	- 4	2109	315	- 5	- 7
BASE	2173	277	2177	273	2157	287	- 10	- 14	2167	272	+ 5	+ 1	2183	279	- 2	- 6	2142	282	- 5	- 9
TOPEKA	3477	-1027	3481	-1031	3467	-1023	- 4	- 8	3476	-1037	+ 10	+ 6	3495	-1033	+ 6	+ 2	3445	-1021	- 6	- 10
HEEBNER	3677	-1227	3682	-1232	3669	-1225	- 2	- 7	3680	-1241	+ 14	+ 9	3705	-1243	+ 16	+ 11	3650	-1226	- 1	- 6
TORONTO	3703	-1253	3706	-1256	3693	-1249	- 4	- 7	3705	-1266	+ 13	+ 10	3721	-1259	+ 6	+ 3	3674	-1250	- 3	- 6
LKC	3721	-1271	3722	-1272	3705	-1261	- 10	- 11	3722	-1283	+ 12	+ 11	3737	-1275	+ 4	+ 3	3688	-1264	- 7	- 8
BKC	3913	-1463	3922	-1472	3903	-1459	- 4	- 13	3914	-1475	+ 12	+ 3					3884	-1460	- 3	- 12
TOTAL DEPTH	3999	-1549	4000	-1550	3944	-1500	- 49	- 50	3968	-1529	- 20	- 21	3976	-1514	- 35	- 36	3917	-1493	- 56	- 57

DST #1 LKC D - F 3757' - 3788'

	DRILL STEM TEST REPORT Chisholm Partners II LLC 300 N Cedar St Ste 101 Abilene KS 67410 ATTN: Jeff Lawler		9 7s 23w Graham Nighswonger 9-1 Job Ticket: 60621 Test Start: 2014.11.23 @ 08:55:00	
	GENERAL INFORMATION: Formation: LKC " D - F " Deviated: No Whipstock: ft (KB) Time Tool Opened: 11:45:30 Time Test Ended: 16:47:00 Interval: 3757.00 ft (KB) To 3788.00 ft (KB) (TVD) Total Depth: 3788.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Test Type: Conventional Bottom Hole (Initial) Tester: Jim Svaty Unit No: 76 Reference Elevations: 2450.00 ft (KB) 2442.00 ft (CF) KB to GR/CF: 8.00 ft	
Serial #: 6668 Outside Press@RunDepth: 26.58 psig @ 3761.00 ft (KB) Start Date: 2014.11.23 End Date: 2014.11.23 Start Time: 08:55:02 End Time: 16:46:45		Capacity: 8000.00 psig Last Calib.: 2014.11.23 Time On Btm: 2014.11.23 @ 11:45:15 Time Off Btm: 2014.11.23 @ 14:32:15		
TEST COMMENT: 30-IFP- Surface Blow Building to 1 1/2in. 45-ISIP- Weak Surface Blow 30-FFP- Surface Blow Building to 1 1/4in. 60-FSIP- No Blow				



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.28	101.80	Initial Hydro-static
1	10.84	101.33	Open To Flow (1)



30	18.13	101.89	Shut-In(1)
75	1199.02	102.95	End Shut-In(1)
75	22.65	102.52	Open To Flow (2)
106	26.58	103.36	Shut-In(2)
167	1186.52	105.25	End Shut-In(2)
167	1884.95	106.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 40%o 60%m	0.10
5.00	CO 100%	0.02

Gas Rates


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

Trilobite Testing, Inc

Ref. No: 60621

Printed: 2014.11.23 @ 23:15:08

DST #2 LKC H - I 3824' - 3868'

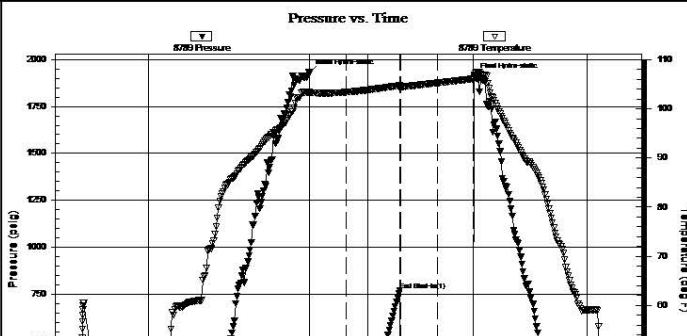
 <p>TRILOBITE TESTING, INC</p>	<p>DRILL STEM TEST REPORT</p>
	<p>Chisholm Partners II LLC</p> <p>300 N Cedar St Ste 101 Abilene KS 67410</p> <p>ATTN: Jeff Lawler</p>

GENERAL INFORMATION:

Formation: LKC "H - I"	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Jim Svaty
Time Tool Opened: 05:12:00	Unit No: 76
Time Test Ended: 09:23:00	Reference Elevations: 2450.00 ft (KB)
Interval: 3824.00 ft (KB) To 3868.00 ft (KB) (TVD)	2442.00 ft (CF)
Total Depth: 3868.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

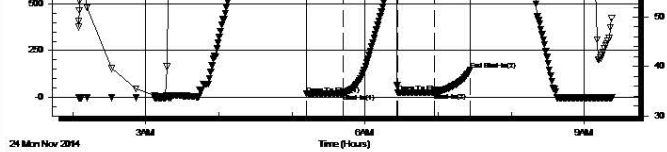
Serial #: 8789 Inside	Capacity: 8000.00 psig
Press@RunDepth: 27.92 psig @ 3836.00 ft (KB)	Last Calib.: 2014.11.24
Start Date: 2014.11.24 End Date: 2014.11.24	Time On Btm: 2014.11.24 @ 05:11:30
Start Time: 02:05:02 End Time: 09:23:00	Time Off Btm: 2014.11.24 @ 07:27:00

TEST COMMENT: 30-IFP: Surface Blow Building to 3/4in. In 12min. Died Back in 18min.
 45-ISIP: No Blow
 30-FFP: No Blow
 30-FSIP: No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.06	103.47	Initial Hydro-static
1	18.69	103.11	Open To Flow (1)
31	23.29	103.38	Shut-In(1)
75	768.50	104.73	End Shut-In(1)
75	25.23	104.50	Open To Flow (2)
106	27.92	105.25	Shut-In(2)
135	146.26	106.10	End Shut-In(2)
136	1907.05	106.73	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
10.00	Oil Speck Mud 100%	0.05

* Recovery from multiple tests

Gas Rates

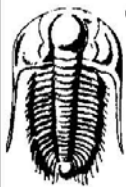
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 60622

Printed: 2014.11.24 @ 09:50:02

DST #3 LKC J 3863' - 3890'



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chisholm Partners II LLC
 300 N Cedar St Ste 101
 Abilene KS 67410
 ATTN: Jeff Lawler

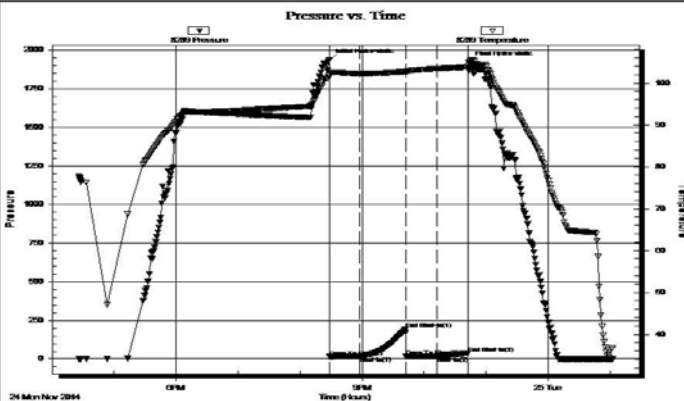
9 7s 23w Graham
Nighswonger 9-1
 Job Ticket: 60623 **DST#: 3**
 Test Start: 2014.11.24 @ 16:26:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:28:15
 Time Test Ended: 01:03:00
 Interval: **3863.00 ft (KB) To 3890.00 ft (KB) (TVD)**
 Total Depth: 3890.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2450.00 ft (KB)
 2442.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 17.56 psig @ 3867.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.24 End Date: 2014.11.25 Last Calib.: 2014.11.25
 Start Time: 16:26:02 End Time: 01:03:00 Time On Btm: 2014.11.24 @ 20:28:00
 Time Off Btm: 2014.11.24 @ 22:43:00

TEST COMMENT: 30-IFP- Surface Blow Building to 3/4in. In 8min. Died Back in 13min
 45-ISIP- No Blow
 30-FFP- No Blow
 30-FSP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.95	101.82	Initial Hydro-static
1	14.86	101.35	Open To Flow (1)
30	16.55	102.19	Shut-In(1)
74	192.84	102.67	End Shut-In(1)
75	17.12	102.61	Open To Flow (2)
105	17.56	103.43	Shut-In(2)
135	39.30	103.83	End Shut-In(2)
135	1922.39	104.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Oil Speck Mud 100%	0.01

Gas Rates

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

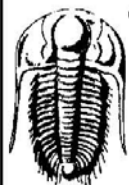
* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 60623

Printed: 2014.11.25 @ 20:05:49

DST #4 LKC K -L 3888' - 3938'



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chisholm Partners II LLC

9 7s 23w Graham

300 N Cedar St Ste 101
Abilene KS 67410

Nighswonger 9-1

Job Ticket: 60624

DST#: 4

ATTN: Jeff Lawler

Test Start: 2014.11.25 @ 09:35:00

GENERAL INFORMATION:

Formation: **LKC " K & L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:09:15

Time Test Ended: 17:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3888.00 ft (KB) To 3938.00 ft (KB) (TVD)

Reference Elevations: 2450.00 ft (KB)

Total Depth: 3938.00 ft (KB) (TVD)

2442.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289

Outside

Press@RunDepth: 124.62 psig @ 3893.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.25

End Date:

2014.11.25

Last Calib.: 2014.11.25

Start Time: 09:35:02

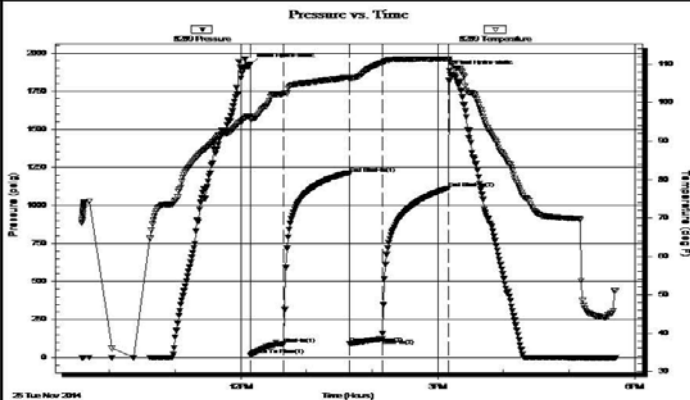
End Time:

17:42:30

Time On Btm: 2014.11.25 @ 12:09:00

Time Off Btm: 2014.11.25 @ 15:10:30

TEST COMMENT: 30-IFP- Surface Blow Building to 8 1/4in.
60-ISIP- No Blow For 20min. To Surface Blow
30-FFP- Surface Blow Building to 8 3/4in.
60-FFP- No Blow For 8min. To Surface Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.13	96.53	Initial Hydro-static
1	18.83	95.55	Open To Flow (1)
31	90.75	102.37	Shut-In(1)
90	1209.38	106.62	End Shut-In(1)
91	94.07	106.13	Open To Flow (2)
120	124.62	110.36	Shut-In(2)
181	1113.33	111.44	End Shut-In(2)
182	1882.62	110.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCV 20% m 80% w	0.59
100.00	OCM 3% o 97% m	1.40

Gas Rates

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 60624

Printed: 2014.11.25 @ 20:05:09

ROCK TYPES

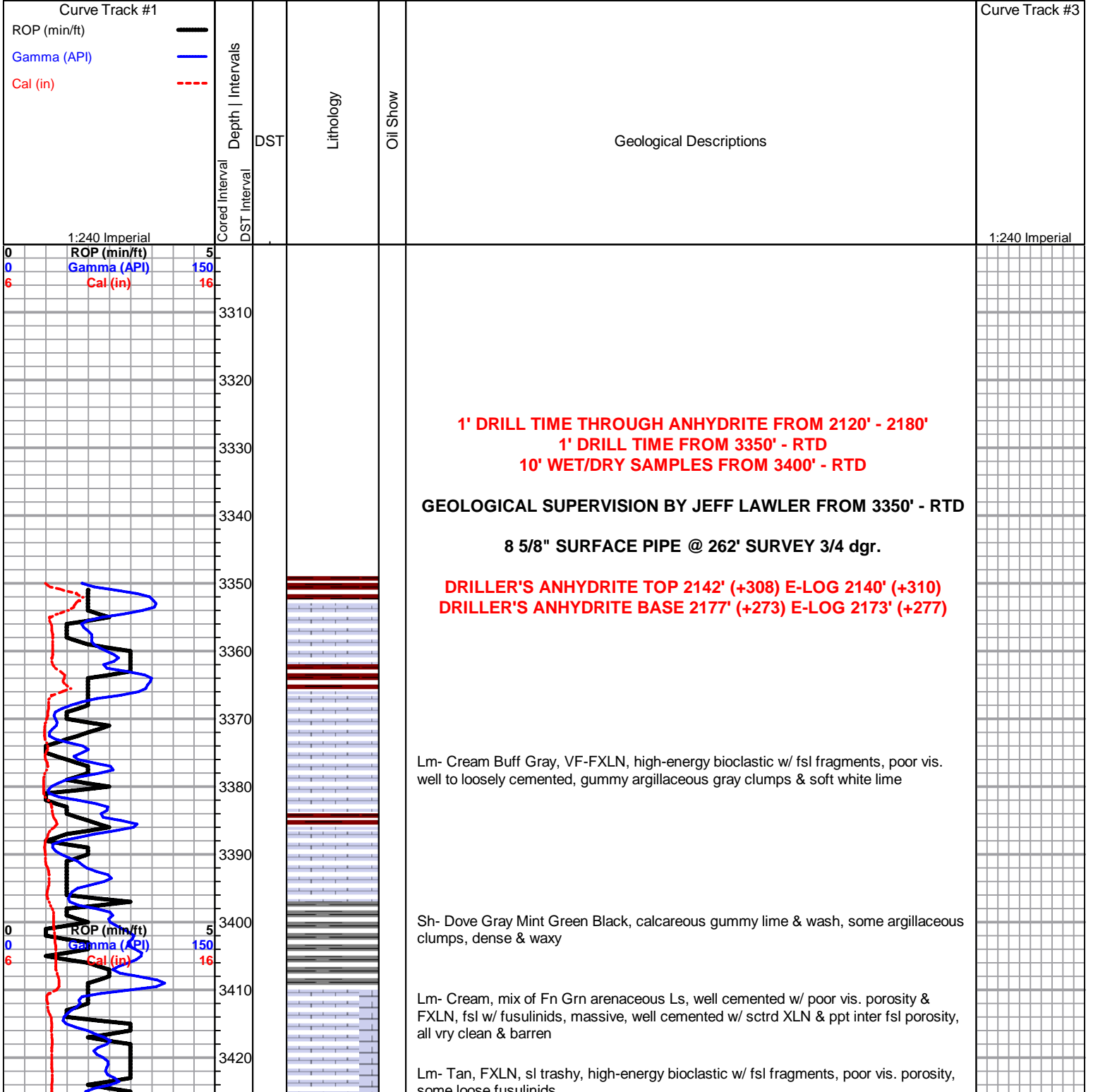
OTHER SYMBOLS

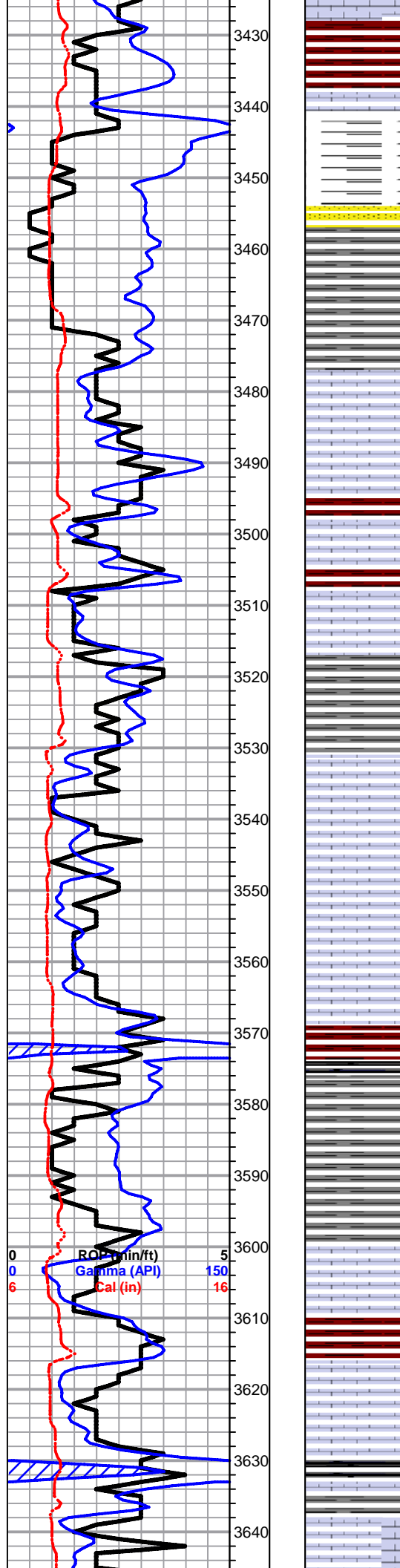
MISC

- Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST

- DST Int
- DST alt





some loose fusulinids

3430 Sh- Maroon Gray, sl sandy wash, silty & calcareous, some gray wash

3440 Sh- A/A w/ incr. in gummy washy & argillaceous clumps

3450 Lm- Drk Gray, VFXLN, dense, well cemented, tight w/o vis. porosity

3460 Ss- Frosted Gray, Fn Grn, consolidated & well sorted, sub-angular, sl micaceous & spkld w/ sediment, some glauconite, mod. cementation, barren

3470 Sh- Maroon Gray, semi-gummy wash & argillaceous clumps

TOPEKA 3481' (-1031) E-LOG 3477' (-1027) Lm- Tan Gray, VFXLN, dense, well cemented, mostly tight w/ poor vis. porosity

3490 Lm- Gray Buff, VF-FXLN, dense, well cemented, mostly tight w/ min. vis. to XLN porosity

3500 Lm- Cream Tan, FXLN, oolitic & fsl w/ fusulinids, poorly dev. & sl chalky in part, sctrd XLN porosity, barren

3510 Lm- Cream Off White, FXLN, fsl, massive, sctrd clear replacement cementation, sctrd XLN porosity, poor effective porosity, some sctrd secondary recrystallization porosity, barren, much gummy white chalk

3520

3530 Sh- Gray White, silty & calcareous, gummy white chalk

3540 Lm- Gray, VFXLN, dense, well cemented, trashy, sctrd XLN & secondary recrystallization porosity, mixed w/ grainy fn grn arenaceous Ls

3550 Lm- Cream Off White White, mix of crypto XLN fresh bedded sl fsl chert, cherty Ls & VFXLN, well cemented & tight ls w/ min. vis. porosity, all vry clean

3560 Lm- Tan Cream, FXLN, fsl w/ oolites, fusulinids, & crinoids, mostly tight & poorly dev. w/ sctrd clear replacement cementation, sctrd XLN porosity, massive

3570 Lm- Cream Off White, VF-FXLN, sl fsl, poorly dev. w/ sctrd micro XLN & XLN porosity, some soft white chalk

3580 Sh- Black Maroon, fissile, carbonaceous, gritty & earthy

3590 Sh- Maroon Gray, gummy sandy wash & shaly Ss

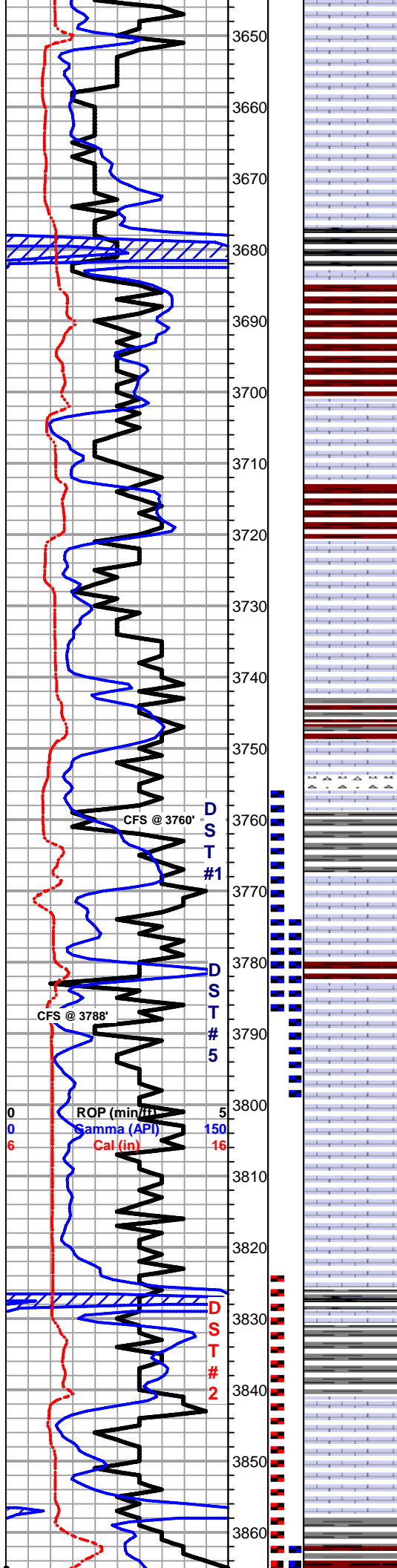
3600 Lm- Cream Off White, FXLN, massive, fsl, poorly dev. & well cemented, few sl chalky in part, sctrd XLN porosity, barren

3610 Sh- Maroon Gray, gritty & earthy, some semi-gummy wash, silty & soft

3620 Lm- Cream Buff, VF-FXLN, dense, well cemented, sl fsl, sctrd XLN & secondary recrystallization porosity, vry clean, some soft gummy white chalk

3630 Sh- Black Gray, silty & carbonaceous, gummy wash

3640 Lm- Cream Off White, VFXLN, dense, well cemented, tight w/ min. vis. porosity, few pcs of sucrosic FXLN dolomitic Ls w/ consistent XLN porosity throughout, all vry clean



& barren

Lm- Cream Buff, FXLN, oolitic, massive, poorly dev. w/ clear replacement cementation, XLN porosity, min. effective porosity, few pcs of cryptocrystalline oolitic biomicrite w/o vis. porosity

Lm- A/A w/ dove gray VFXLN fsl cherty Ls w/ sctrd XLN & some fn ppt inter fsl porosity, much soft white chalk

Lm- Dove Gray, VF-FXLN, high-energy sl fsl, bioclastic, sctrd-dense XLN porosity, some chalky mud supported matrix

HEEBNER 3682' (-1232) E-LOG 3677' (-1227) Sh- Black Gray, fissile & carbonaceous, silty soft slivers

Sh- Maroon Gray Lm Green, gritty & earthy, semi-gummy wash, soft sl sandy lime, Frosted Fn Grn Ss, well sorted, sl unconsolidated & spkld w/ mica & glauconite

TORONTO 3706' (-1256) E-LOG 3703' (-1253) Lm- Cream Off White, FXLN, fsl, sl oolitic, some massive & sl granular, poorly dev. w/ clear replacement cementation, XLN & sctrd recrystallization porosity, several pcs of sub-sucrosic dolomitic Ls w/ consistent XLN porosity, all clean & barren

LKC 3722' (-1272) E-LOG 3721' (-1271) Lm- Cream Off White, VF-FXLN, dense, well cemented, massive, oolitic & fsl w/ fusulinids, several pcs of oolitic biomicrite w/o vis. porosity, much soft white chalk, vry clean, barren

Lm- Cream Off White, VFXLN, well cemented, tight w/ sctrd micro XLN porosity, some soft white chalk & chalky Ls, all vry clean & barren

Sh- Maroon Gray Lm Green, gritty & earthy, some semi-gummy wash, silty & dense, soft & semi-waxy

Lm- Cream Off White, FXLN, oolitic, poorly dev., mostly tight w/ sctrd micro XLN & XLN porosity, barren

Chert- Milky White Salmon, abundant sharp angular fresh bedded vitreous chert w/o vis. porosity & white gritty dolomitic chert

Sh- Black Gray Maroon, soft & silty, silty & calcareous, gritty & earthy

Lm- Cream Off White, F-Med XLN, oolitic, well dev. w/ consistent ppt inter oolite porosity, DRKT SCTRD STN, TR GSY FO, WK ODR

Lm- Cream Off White, VF-FXLN, dense, well cemented, mostly tight w/ micro XLN porosity, vry clean, some soft white chalk

Lm- Buff, VF-FXLN, dense, well cemented, mostly tight w/ poor vis. porosity, barren

Lm- Cream Off White, F-Med XLN, mod. well dev. oolitic w/ sctrd fusulinids, consistent ppt inter oolite porosity & sctrd secondary recrystallization, SCTRD DRK STN, FR SHW FRO, OILY SHEEN, GD LIGHT ODR

Lm- Cream Off White, VF-FXLN, fsl & oolitic, poorly dev, well cemented, some massive mud supported matrix, sctrd XLN porosity, much soft white chalk, vry clean

Lm- White Off White, VF-FXLN, dense, well cemented, mostly tight, sl fsl, few lithographic, most w/ min. vis.-no vis. porosity, vry clean, soft white chalk, few pcs of cream cryptoXLN cherty Ls

Sh- Black Drk Gray Maroon, fissile & carbonaceous, silty & soft, gritty & earthy

Lm- Cream Gray, VF-FXLN, trashy high-energy oolitic mix. poor vis. porosity

Lm- White Off White, FXLN, dense, well cemented, mod. well dev. w/ consistent fn ppt porosity, SCTRD TO SUB-SAT DRK STN, SL FLAKEY, TR FO, WK-FR ODR

Lm- Gray Buff, VFXLN, dense, well cemented, tight w/ poor XLN porosity, barren

Sh- Gray Black Maroon, gummy argillaceous clumps, some sandy lime, gritty & earthy

SHORT TRIP SURVEY 1 dgr.

DST #1 LKC D - F 3757' - 3788'

30-45-30-60

5' OIL Gr: 29 20' OCM (40% O, 60% M)

IFP: 10-18# FFP: 22-26# SIP: 1199-1186# *SEE PIC BELOW*

3770.jpg

DST #5 STRADDLE LKC G 3775' - 3800' 30-30-0-0

7' MUD IFP: 25-31# FFP: N/A SIP: 972- N/A

3794.jpg

DST #2 LKC H - I 3824' - 3868'

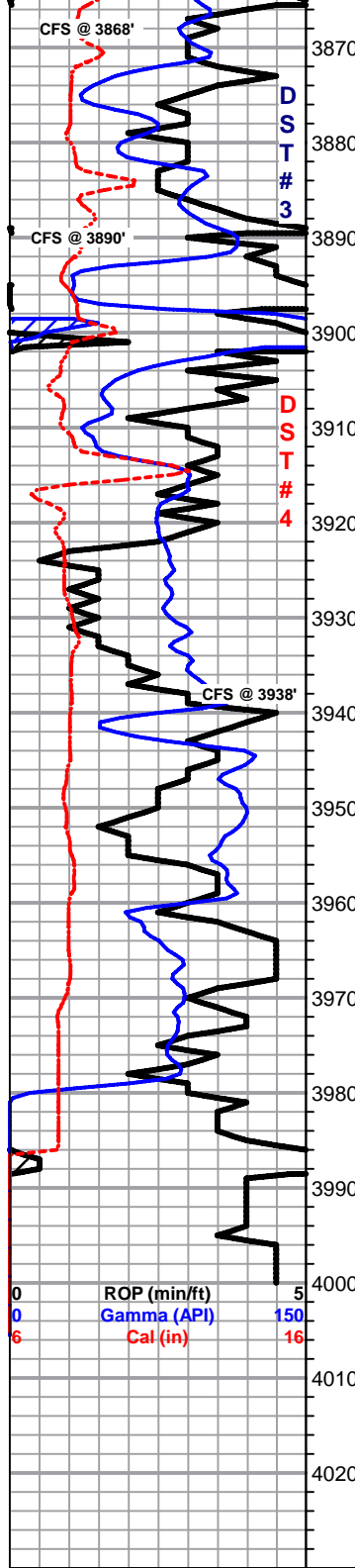
30-45-30-30

10' OSPM

IFP: 18-23# FFP: 25-27# SIP: 768-146#

3850.jpg

DST #3 LKC J 3863' - 3890'



Sh- Maroon Gray Lm Green, gritty & earthy, silty & soft, silty & calcareous

Lm- Cream Off White, FXLN, fsl, mod. dev. w/ sctrd XLN & fn ppt inter fsl porosity, well cemented, SCTRDR LT STN, MOD. OILY SHEEN, FR ODR

Sh- Black Maroon Gray, silty & soft, gritty & earthy, silty soft slivers

Lm- White Off White, F-Med XLN, well dev. oolitic w/ consistent ppt to sub-vugular inter oolite porosity, some sctrd recrystallization w/in porosity, SCTRDR DRK STN, GD FO UPON CRUSH, HVY OILY SHEEN, FR-GD LIGHT ODR

Lm- White Off White, VF-FXLN, dense, well cemented, mostly tight, some sl fsl, sctrd micro XLN porosity, vry clean & barren

BKC 3922' (-1472) E-LOG 3913' (-1463) Sh- Maroon Gray, gritty & earthy, some sl sandy wash, silty & calcareous

Sh- A/A w/ dense & semi-waxy gray slivers

Lm- Off White, VF-FXLN, dense, most well cemented, sl unconsolidated & spkld, sctrd XLN porosity, few sl chalky in part, barren

Sh- Maroon Gray Lm Green, semi-gummy wash, gritt & earthy, trashy & dense, silty & calcareous

Conglomerate- Lt Purple Gray w/ Purple mottling, VF-FXLN, unconsolidated & shaley, some chalky in part, all w/ poor vis. porosity

Sh- Maroon, abundant gummy wash, Lm- Buff, loosely cemented buff siltstone

Lm- Cream Buff, Fn Grn, arenaceous Ls, well cemented w/ poor vis. porosity

Lm- Buff, VFXLN, dense, massive, unconsolidated w/ sun-rounded fn-med qtz. grn, sctrd micro XLN & XLN porosity, barren

Lm- A/A w/ detritial salmon colored chert & cherty Ls

RTD 4000' (-1550) LTD 3999' (-1549) @ 11:39 11/25/2014

DST 5.jpg

3' OSPM

IFP: 14-16#

FFP: 17-17#

SIP: 192-39#

3884.jpg

3884_2.jpg

3904.jpg

DST #4
LKC K - L
3888' - 3938'

30-60-30-60

220' TOTAL FLUID

120' MCW
(80% W, 20% M)
100' OCM
(3% O, 97% M)

IFP: 18-90#

FFP: 94-124#

SIP: 1209-1113#

Rw: .313 @ 50 dgr.

CHLOR: 31,000

SURVEY 3/4 dgr.



0.2 mm

3770' x 30



0.2 mm
3794' x 30




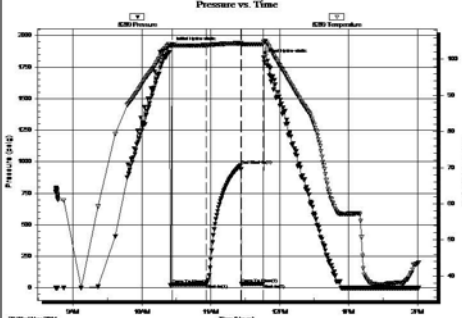
0.2 mm

3850' X 35







	DRILL STEM TEST REPORT				
Chisholm Partners II LLC 300 N Cedar St Ste 101 Abilene KS 67410 ATTN: Jeff Lawler	9 7s 23w Graham,KS Nighswonger 9-1 Job Ticket: 60625 DST#: 5 Test Start: 2014.11.26 @ 08:45:00				
GENERAL INFORMATION: Formation: LKC " G " Deviated: No Whipstock: ft (KB) Time Tool Opened: 10:26:30 Time Test Ended: 14:01:00 Interval: 3775.00 ft (KB) To 3800.00 ft (KB) (TVD) Total Depth: 3999.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair					
Test Type: Conventional Straddle (Reset) Tester: Jim Svaty Unit No: 76 Reference Elevations: 2450.00 ft (KB) 2442.00 ft (CF) KB to GR/CF: 8.00 ft					
Serial #: 8289 Outside Press@RunDepth: 31.02 psig @ 3781.00 ft (KB) Start Date: 2014.11.26 End Date: 2014.11.26 Start Time: 08:45:02 End Time: 14:00:45 Capacity: 8000.00 psig Last Calib.: 2014.11.26 Time On Btm: 2014.11.26 @ 10:26:15 Time Off Btm: 2014.11.26 @ 11:46:00					
TEST COMMENT: 30-IFP: 1/4in. Blow Died Back in 21min. 30-ISIP: No Blow 15-FFP: No Blow Pulled					
	PRESSURE SUMMARY				
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	
	0	1917.47	104.21	Initial Hydro-static	
	1	25.75	103.54	Open To Flow (1)	
	30	31.02	103.89	Shut-In(1)	
	60	972.21	104.46	End Shut-In(1)	
	61	31.09	104.03	Open To Flow (2)	
	80	32.32	104.21	Shut-In(2)	
	80	1821.13	104.89	Final Hydro-static	
Recovery		Gas Rates			
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
7.00	Mud 100%	0.03			
* Recovery from multiple tests					