



Scale 1:240 Imperial

Well Name: SCOTT #1  
 Surface Location: NW SE SW SW Sec. 21 - 4S - 22W  
 Bottom Location:  
 API: 15-137-20734  
 License Number: 34916  
 Spud Date: 6/17/2015 Time: 12:00 AM  
 Region: NORTON COUNTY KANSAS  
 Drilling Completed: 6/22/2015 Time: 8:21 PM  
 Surface Coordinates: 540' FSL & 940' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2296.00ft  
 K.B. Elevation: 2301.00ft  
 Logged Interval: 3100.00ft To: 3775.00ft  
 Total Depth: 3775.00ft  
 Formation: LANSING - KANSAS CITY  
 Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

**OPERATOR**

Company: FOURWINDS OIL CORPORATION  
 Address: P.O. BOX 1063  
 HAYS, KS 67601

Contact Geologist: DAN WINDHOLZ  
 Contact Phone Nbr: (785) 259-840

Well Name: SCOTT #1  
 Location: NW SE SW SW Sec. 21 - 4S - 22W  
 API: 15-137-20734

Pool: KANSAS Field: WILDCAT  
 State: KANSAS Country: USA

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -99.812006  
 Latitude: 39-684201  
 N/S Co-ord: 540' FSL  
 E/W Co-ord: 940' FWL

**LOGGED BY**



Company: BIG CREEK CONSULTING, INC

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 #: 6  
 Rig Type: MUD ROTARY  
 Spud Date: 6/17/2015  
 TD Date: 6/22/2015  
 Rig Release: 6/24/2015  
 Time: 12:00 AM  
 Time: 8:21 PM  
 Time: 7:45 AM

**ELEVATIONS**

K.B. Elevation: 2301.00ft  
 K.B. to Ground: 5.00ft  
 Ground Elevation: 2296.00ft

**NOTES**


DUE TO RECOVERY ON DRILL STEM TEST #4 AND #5 IT WAS SUGGESTED AND DECIDED TO RUN 4 1/2" PRODUCTION CASING AND FURTHER EVALUATE ZONE OF INTEREST WITH PERFORATION.

RESPECTFULLY SUBMITTED,  
 JEFF LAWLER

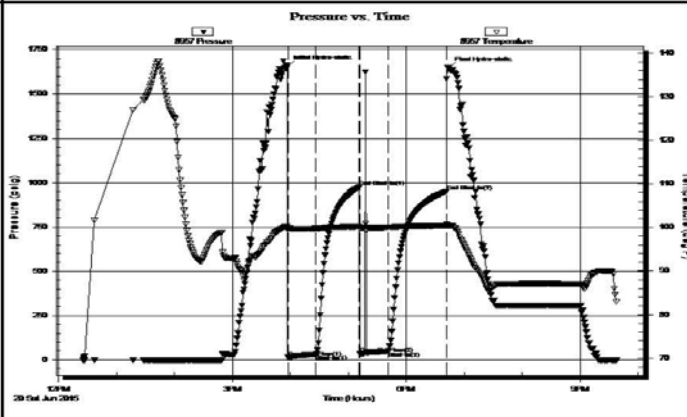
**WELL COMPARISON SHEET**

|               |       | SCOTT #1 |       |            |       | N2 N2 N2 28-4-22 |       |       |       | SW SW SW 20-4-22 |       |            |       | NE SW NW 20-4-22 |       |       |       | N2 SE NW NE 28-4-22 |       |       |       |       |       |       |
|---------------|-------|----------|-------|------------|-------|------------------|-------|-------|-------|------------------|-------|------------|-------|------------------|-------|-------|-------|---------------------|-------|-------|-------|-------|-------|-------|
|               |       | 2301     |       | 2296       |       | 2241             |       | 2270  |       | 2282             |       | 2207       |       |                  |       |       |       |                     |       |       |       |       |       |       |
|               |       | LOGTOPS  |       | SAMPLETOPS |       | LOGS             |       | LOG   |       | SMPL.            |       | COMP. CARD |       | LOG              |       | SMPL. |       | COMP. CARD          |       | LOG   |       | SMPL. |       |       |
| FORMATION     | DEPTH | DATUM    | DEPTH | DATUM      | DEPTH | DATUM            | CORR. | CORR. | DEPTH | DATUM            | CORR. | CORR.      | DEPTH | DATUM            | CORR. | CORR. | DEPTH | DATUM               | CORR. | CORR. | DEPTH | DATUM | CORR. | CORR. |
| ANHYDRITE TOP | 1935  | 366      | 1946  | 355        | 1880  | 361              | + 5   | - 6   |       |                  |       |            | 1915  | 367              | - 1   | - 12  | 1848  | 359                 | + 7   | - 4   |       |       |       |       |
| BASE          | 1963  | 338      | 1965  | 336        | 1909  | 332              | + 6   | + 4   |       |                  |       |            | 1943  | 339              | - 1   | - 3   |       |                     |       |       |       |       |       |       |
| TOPEKA        | 3235  | -934     | 3238  | -937       | 3180  | -939             | + 5   | + 2   |       |                  |       |            | 3221  | -939             | + 5   | + 2   | 3150  | -943                | + 9   | + 6   |       |       |       |       |
| HEEBNER SHALE | 3432  | -1131    | 3435  | -1134      | 3379  | -1138            | + 7   | + 4   | 3404  | -1134            | + 3   | + 0        | 3421  | -1139            | + 8   | + 5   | 3348  | -1141               | + 10  | + 7   |       |       |       |       |
| TORONTO       | 3461  | -1160    | 3463  | -1162      | 3406  | -1165            | + 5   | + 3   |       |                  |       |            | 3450  | -1168            | + 8   | + 6   | 3372  | -1165               | + 5   | + 3   |       |       |       |       |
| LKC           | 3480  | -1179    | 3482  | -1181      | 3424  | -1183            | + 4   | + 2   | 3448  | -1178            | - 1   | - 3        | 3466  | -1184            | + 5   | + 3   | 3386  | -1179               | + 0   | - 2   |       |       |       |       |
| BKC           | 3669  | -1368    | 3669  | -1368      | 3613  | -1372            | + 4   | + 4   |       |                  |       |            | 3662  | -1380            | + 12  | + 12  | 3575  | -1368               | + 0   | + 0   |       |       |       |       |
| ARBUCKLE      |       |          |       |            |       |                  |       |       |       |                  |       |            |       |                  |       |       | 3651  | -1444               |       |       |       |       |       |       |
| REAGAN        |       |          |       |            |       |                  |       |       | 3710  | -1440            |       |            |       |                  |       |       |       |                     |       |       |       |       |       |       |
| GRANITE WASH  | 3753  | -1452    | 3753  | -1452      |       |                  |       |       | 3734  | -1464            | + 12  | + 12       |       |                  |       |       |       |                     |       |       |       |       |       |       |
| GRANITE       |       |          |       |            |       |                  |       |       | 3762  | -1492            |       |            |       |                  |       |       |       |                     |       |       |       |       |       |       |
| TOTAL DEPTH   | 3774  | -1473    | 3775  | -1474      | 3665  | -1424            | - 49  | - 50  | 3764  | -1494            | + 21  | + 20       | 3818  | -1536            | + 63  | + 62  | 3653  | -1446               | - 27  | - 28  |       |       |       |       |

**DST #1 TORONTO - LKC A**

|   |  |  |
|---|--|--|
|    | <b>DRILL STEM TEST REPORT</b>  |  |
|   | Fourw inds Oil Corp.<br>Po Box 1063<br>Hays, KS 67601<br>ATTN: Jeff Lawler   | <b>21-4-22, Norton, KS</b><br><br><b>Scott #1</b><br>Job Ticket: 62348 <b>DST#: 1</b><br>Test Start: 2015.06.20 @ 12:25:00 |
| <b>GENERAL INFORMATION:</b>   |  |  |
| Formation: <b>Toronto "KC A"</b><br>Deviated: No Whipstock      ft (KB)<br>Time Tool Opened: 15:57:15<br>Time Test Ended: 21:38:15  | Test Type: Conventional Bottom Hole (Initial)<br>Tester: Brett Dickinson<br>Unit No: 81  |  |
| Interval: <b>3432.00 ft (KB) To 3490.00 ft (KB) (TVD)</b><br>Total Depth: 3490.00 ft (KB) (TVD)<br>Hole Diameter: 7.88 inches      Hole Condition: Fair                                 | Reference Elevations: 2301.00 ft (KB)<br>2296.00 ft (CF)<br>KB to GR/CF: 5.00 ft   |  |
| <b>Serial #: 8957</b> <b>Inside</b><br>Press@RunDepth: 48.87 psig @ 3433.00 ft (KB)<br>Start Date: 2015.06.20      End Date: 2015.06.20<br>Start Time: 12:25:05      End Time: 21:38:15 | Capacity: 8000.00 psig<br>Last Calib.: 2015.06.20<br>Time On Btm: 2015.06.20 @ 15:56:30<br>Time Off Btm: 2015.06.20 @ 18:43:15 |  |
| <b>TEST COMMENT:</b> IF-1/2in blow<br>(C) N. H.   |  |  |

ISF-No blow  
 FF-No blow Flush tool surface blow  
 FSI-No blow



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1654.44         | 100.20       | Initial Hydro-static |
| 1                | 14.66           | 99.62        | Open To Flow (1)     |
| 30               | 31.26           | 99.77        | Shut-In(1)           |
| 75               | 976.71          | 100.19       | End Shut-In(1)       |
| 76               | 34.33           | 99.77        | Open To Flow (2)     |
| 105              | 48.87           | 100.01       | Shut-In(2)           |
| 165              | 950.96          | 100.39       | End Shut-In(2)       |
| 167              | 1647.05         | 100.46       | Final Hydro-static   |

| Recovery    |             |              |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 65.00       | OS Mud      | 0.32         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

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

Trilobite Testing, Inc

Ref. No: 62348

Printed: 2015.06.20 @ 22:56:09

### DST #2 LKC H - I 3576' - 3620'

|  |                               |  |
|--|-------------------------------|--|
|  | <b>DRILL STEM TEST REPORT</b> |  |
|  | Four inds Oil Corp.           | <b>21-4-22, Norton, KS</b>   |
|  | ATTN: Jeff Lawler             | <b>Scott #1</b><br>Job Ticket: 62349 <b>DST#: 2</b><br>Test Start: 2015.06.21 @ 10:45:00 |

**GENERAL INFORMATION:**

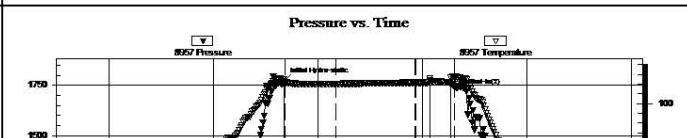
Formation: **KC"H-I"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:41:00  
 Time Test Ended: 15:51:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 81

Interval: **3576.00 ft (KB) To 3620.00 ft (KB) (TVD)**  
 Total Depth: 3620.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Reference Elevations: 2301.00 ft (KB)  
 2296.00 ft (CF)  
 KB to GR/CF: 5.00 ft

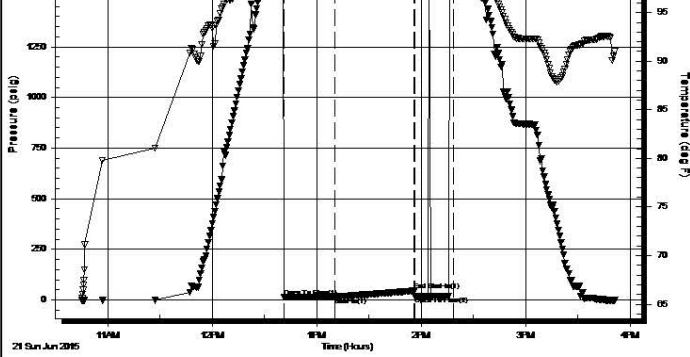
**Serial #: 8957**      **Inside**

Press@RunDepth: 15.29 psig @ 3577.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.06.21      End Date: 2015.06.21      Last Calib.: 2015.06.21  
 Start Time: 10:45:05      End Time: 15:50:59      Time On Btm: 2015.06.21 @ 12:40:30  
 Time Off Btm:

**TEST COMMENT:** IF-weak surface blow  
 ISF-No blow  
 FF-No blow  
 FSI-No blow



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1768.64         | 102.52       | Initial Hydro-static |



|    |         |        |                  |
|----|---------|--------|------------------|
| 1  | 13.96   | 101.94 | Open To Flow (1) |
| 30 | 15.29   | 102.03 | Shut-In(1)       |
| 76 | 44.63   | 102.16 | End Shut-In(1)   |
| 76 | 16.15   | 102.15 | Open To Flow (2) |
| 98 | 1746.11 | 102.79 | End Shut-In(2)   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00        | OS Mud      | 0.02         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

\* Recovery from multiple tests

### Gas Rates


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

Trilobite Testing, Inc

Ref. No: 62349

Printed: 2015.06.21 @ 20:02:20

## DST #3 LKC J - K 3605' - 3655'



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

Fourw inds Oil Corp. **21-4-22, Norton, KS**

**Scott #1**

Job Ticket: 62350 **DST#: 3**

ATTN: Jeff Lawler Test Start: 2015.06.21 @ 22:45:00

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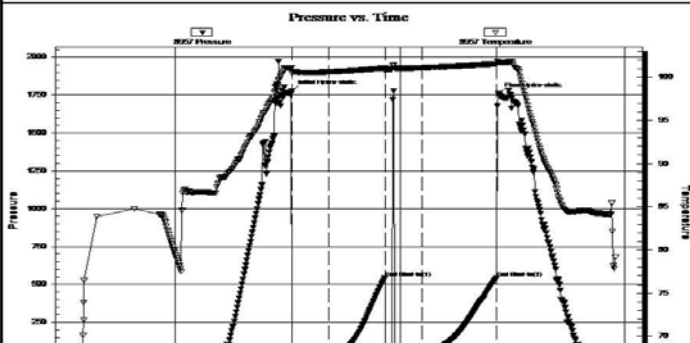
**GENERAL INFORMATION:**

|   |   |
|---|---|
| Formation: <b>KC</b>                                      | Test Type: Conventional Bottom Hole (Reset) |
| Deviated: No Whipstock: ft (KB)                           | Tester: Brett Dickinson                     |
| Time Tool Opened: 01:33:30                                | Unit No: 81                                 |
| Time Test Ended: 05:52:30                                 | Reference Elevations: 2301.00 ft (KB)       |
| <b>Interval: 3605.00 ft (KB) To 3655.00 ft (KB) (TVD)</b> | 2296.00 ft (CF)                             |
| Total Depth: 3490.00 ft (KB) (TVD)                        | KB to GR/CF: 5.00 ft                        |
| Hole Diameter: 7.88 inches Hole Condition: Fair           |   |

---

|  |                                     |
|--|-------------------------------------|
| <b>Serial #: 8957</b> <b>Inside</b>          | Capacity: 8000.00 psig              |
| Press@RunDepth: 34.71 psig @ 3606.00 ft (KB) | Last Calib.: 2015.06.22             |
| Start Date: 2015.06.21                       | End Date: 2015.06.22                |
| Start Time: 22:45:05                         | End Time: 05:52:29                  |
|  | Time On Btm: 2015.06.22 @ 01:33:00  |
|  | Time Off Btm: 2015.06.22 @ 04:19:00 |

**TEST COMMENT:** IF-1/4in blow  
 ISI-No blow  
 FF-Surface blow  
 FSI-No blow



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1775.90         | 101.06       | Initial Hydro-static |
| 1           | 18.52           | 100.43       | Open To Flow (1)     |
| 30          | 24.57           | 100.62       | Shut-In(1)           |
| 75          | 542.05          | 101.08       | End Shut-In(1)       |
| 76          | 26.93           | 100.93       | Open To Flow (2)     |
| 105         | 34.71           | 101.11       | Shut-In(2)           |
| 165         | 540.98          | 101.56       | End Shut-In(2)       |
| 166         | 1757.28         | 101.73       | Final Hydro-static   |



| Recovery    |             |              |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 5.00        | OS Mud      | 0.02         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

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


\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 62350

Printed: 2015.06.22 @ 06:27:40

### DST #4 (STRADDLE) LKC C - G 3495' - 3570' (SEE BOTTOM PACKER CHART BELOW)

|  |   |  |
|--|---|--|
|  <b>TRILOBITE TESTING, INC.</b> | <b>DRILL STEM TEST REPORT</b>                 |  |
|  | Fourw inds Oil Corp.<br><br>ATTN: Jeff Lawler | <b>21-4-22, Norton, KS</b><br><br><b>Scott #1</b><br>Job Ticket: 64701 <b>DST#: 4</b><br>Test Start: 2015.06.23 @ 05:30:00 |

**GENERAL INFORMATION:**

Formation: **KC"C-G"**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 08:01:30  
 Time Test Ended: 11:14:30

Test Type: Conventional Straddle (Reset)  
 Tester: Brett Dickinson  
 Unit No: 81

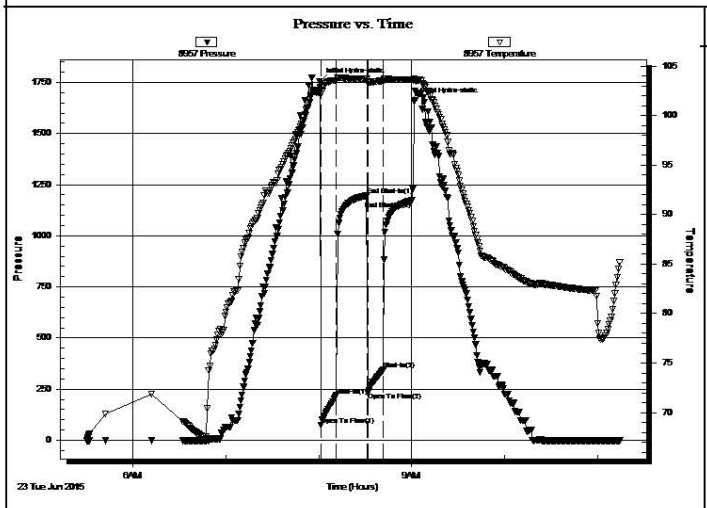
Interval: **3495.00 ft (KB) To 3570.00 ft (KB) (TVD)**  
 Total Depth: 3774.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2301.00 ft (KB)  
 2296.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8957      Inside**

|  |                                     |
|--|-------------------------------------|
| Press@RunDepth: 346.40 psig @ 3496.00 ft (KB)    | Capacity: 8000.00 psig              |
| Start Date: 2015.06.23      End Date: 2015.06.23 | Last Calib.: 2015.06.23             |
| Start Time: 05:30:05      End Time: 11:14:29     | Time On Btm: 2015.06.23 @ 08:00:30  |
|  | Time Off Btm: 2015.06.23 @ 09:01:45 |

TEST COMMENT: IF-BOB in 2 1/2min  
 IS- No blow  
 FF-BOB in 2 1/2min  
 FS- No blow



| PRESSURE SUMMARY |                 |              |                      |
|------------------|-----------------|--------------|----------------------|
| Time (Min.)      | Pressure (psig) | Temp (deg F) | Annotation           |
| 0                | 1755.92         | 102.49       | Initial Hydro-static |
| 1                | 74.61           | 102.16       | Open To Flow (1)     |
| 11               | 218.46          | 103.57       | Shut-In(1)           |
| 31               | 1196.42         | 103.68       | End Shut-In(1)       |
| 31               | 233.22          | 103.30       | Open To Flow (2)     |
| 42               | 346.40          | 103.48       | Shut-In(2)           |
| 60               | 1171.56         | 103.63       | End Shut-In(2)       |
| 62               | 1657.14         | 103.63       | Final Hydro-static   |

| Recovery    |             |              |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
|             |             |              |

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

| Length (ft) | Description              | Volume (bbl) |
|-------------|--------------------------|--------------|
| 125.00      | SOMCW 5%O 70%W 25%M      | 0.66         |
| 315.00      | GSOWCM 5%G 5%O 40%W 50%M | 4.42         |
| 252.00      | SOWCM 5%O 15%W 80%M      | 3.53         |
| 10.00       | VSOXM 2%O 98%M           | 0.14         |
|             |                          |              |
|             |                          |              |

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

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 64701

Printed: 2015.06.23 @ 20:49:59

### ROCK TYPES

|         |            |            |      |
|---------|------------|------------|------|
| Cht     | Lmst fw7>  | Carbon Sh  | Igne |
| Dolprim | shale, grn | shale, red |      |
| Dolsec  | shale, gry | Ss         |      |

### ACCESSORIES

#### MINERAL

\* Sandy  
Mc Mica

#### STRINGER

Limestone  
 Sandstone

### OTHER SYMBOLS

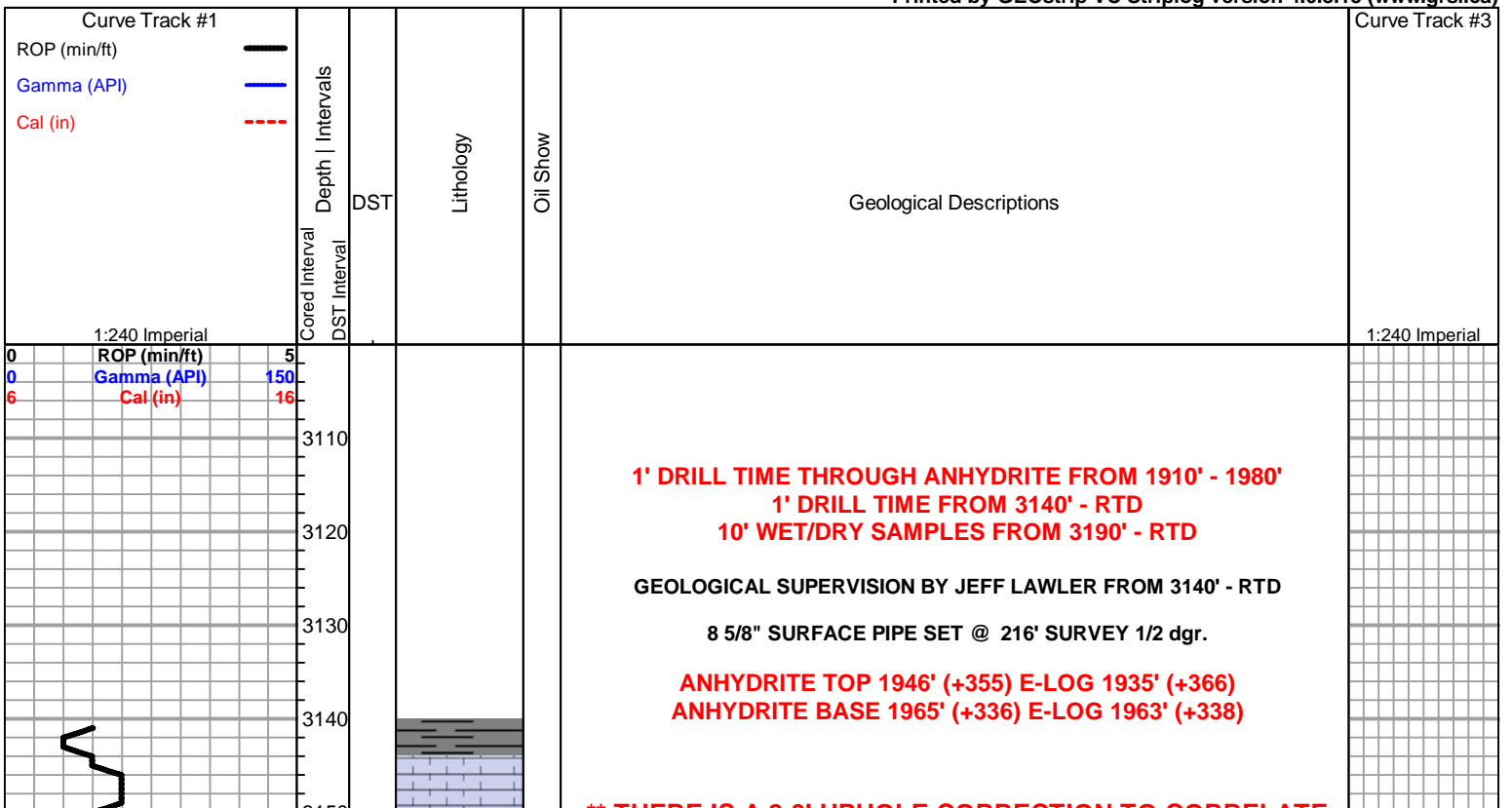
#### MISC

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

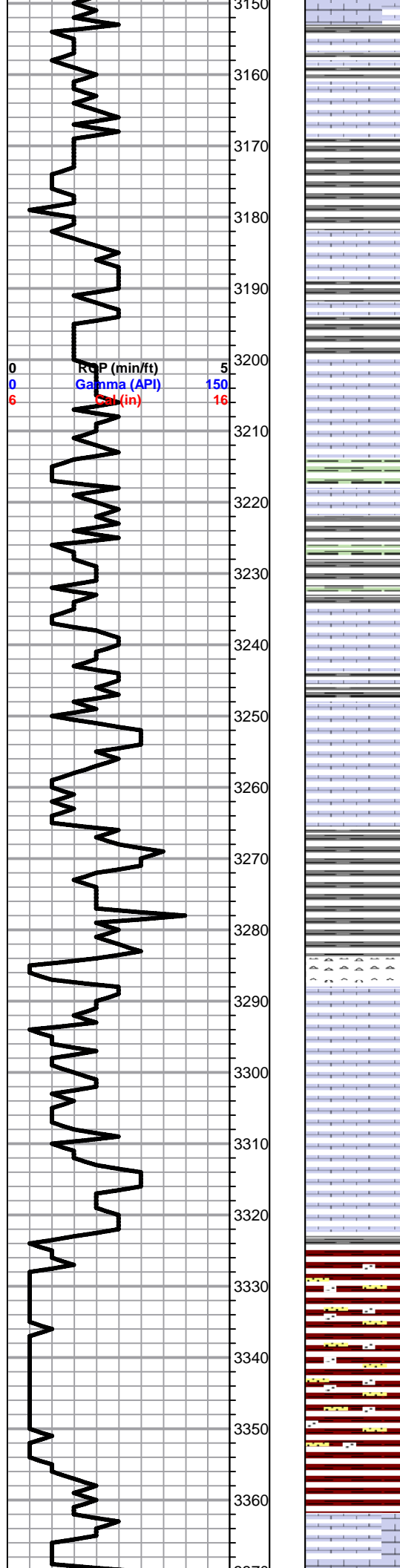
#### DST

- DST Int
- DST alt

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**\*\* THERE IS A 2-3' UPHOLE CORRECTION TO CORRELATE DRILL TIME TO POROSITY LOG CURVES \*\***



Lm- Gray Buff Cream, VF-FXLN mix, most all sl fsl to fsl, poorly dev., well cemented, some chalky in part, sctrd XLN & reXLN porosity, barren

Sh- Gray Maroon, gritty & earthy

Lm- Cream Buff, FXLN, fsl & densely packed oolites, poorly dev. w/ min. inter oolite vis. porosity, sctrd XLN porosity, some sl chalky in part, some vry clean, barren

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

Lm- Gray Buff, Vf Grn, dense, vry well cemented siltstone w/o vis. porosity, sl chalky, mud supported matrix

Sh- Lm Green Maroon, gummy wash, gritty & earthy

Lm- Cream Tan, FXLN, fsl, few high-energy bioclastic w/ fsl fragments, & poorly dev., sl fsl, sctrd XLN porosity, barren

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

**TOPEKA 3238' (-937) E-LOG 3235' (-934)** Lm- Cream Off White, VF-FXLN, mix of dense, well cemented, fsl, some w/ densely packed fsl fragments, few pcs of yellw oolitic biomicrite, several pcs of cherty Ls w/o vis. porosity, all vry clean & barren

Lm- A/A

Lm- Cream Off White, mix of Fn Grn, loosely cemented arenaceous Ls w/ consistent intergranular porosity, detrital cream chert/cherty Ls/dolomitic chert, cream Ls w/ dense clear reXLN & replacement cementation, & fsl Ls w/ fusulinids, all vry clean & barren

Chert- Cream, densely packed oolitic porcelain like vitreous, no vis. porosity, much soft white chalk & gummy maroon wash shale/clay

Lm/Chert- Cream Off White, fsl mix w/ oolites & fusulinids, mod. well dev. densely packed oolites w/ sctrd to consistent ppt inter oolite porosity, few pcs w/ clear inter oolite replacement cementation, vry clean & barren, several pcs of tan vitreous chert/cherty Ls w/o vis. porosity

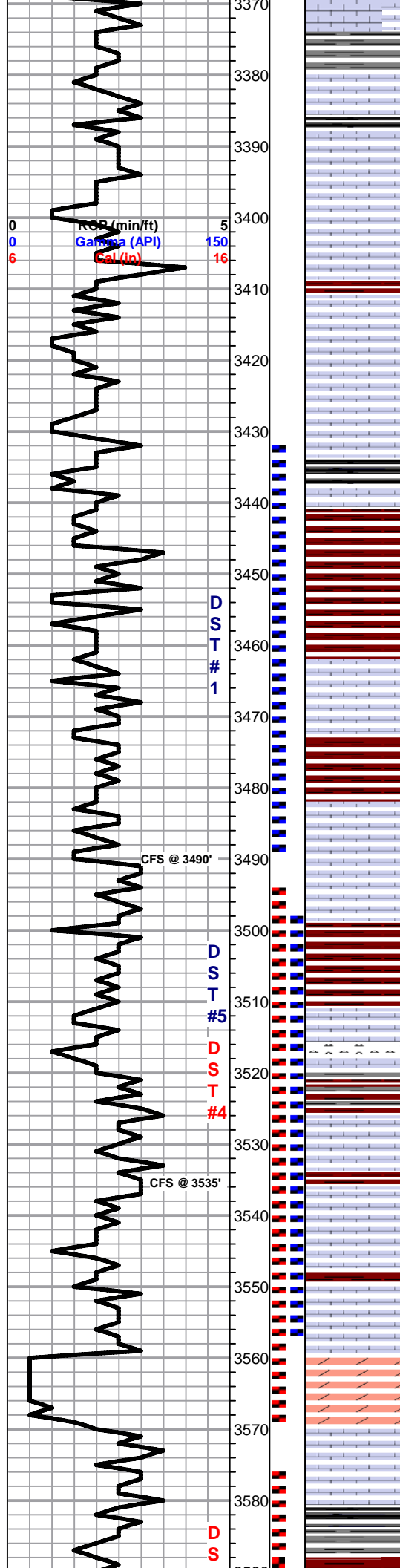
Lm- Cream Off White, VF-FXLN, sl fsl, sctrd XLN porosity, barren, few sl chalky in part

Sh/Chert- Gray, soft & silty, calcareous, cream/salmon fsl fresh bedded vitreous chert

Sh- Marron Lm Green, arenaceous wash & shaly Ss clusters, dense & semi-waxy

Lm- Cream Gray, VFXLN, dense, massive, tight cherty Ls w/ min. vis. porosity, fsl & some oolitic, barren

DST #5 LKC C-G  
(STRADDLE)  
3498' - 3558'  
15-30-15-30  
490' TOTAL FLUID  
180' GIP  
30' SGO  
(10%G, 90%O)  
210' SGOWCM  
5G,100,20W,65M



Lm- Lm Green, Fn Grn, loosely cemented & crumbly, mud supported matrix w/ fusulinids, poor vis. porosity, chalky  
 Sh- Black Maroon, fissile & carbonaceous, gritty & earthy

Lm- Cream Off White, VF-FXLN, fsl & some oolitic, poorly dev., loosely cemented, massive sctrd XLN porosity, some clear replacement cementation, barren, much soft white chalk

Lm- Cream Off White, FXLN, sl fsl, poorly dev., sctrd XLN porosity, some sctrd reXLN, barren

Lm- A/A w/ dense XLN porosity & some soft white chalk

**HEEBNER 3435' (-1134) E-LOG 3432' (-1131)** Sh- Black Maroon, fissile & carbonaceous, gritty & earthy

Sh- Maroon Gray Lm Green, gummy wash, silty & calcareous, dense & silty

**TORONTO 3463' (-1162) E-LOG 3461' (-1160)** Lm- Cream Off White, F-MED XLN, fsl w/ fusulinids, mod. dev. w/ sctrd ppt & XLN porosity, SCTRD DRK STN, MOD. OILY SHEEN, TR FO, WK ODR

**LKC 3482' (-1181) E-LOG 3480' (-1179)** Lm- Cream Tan, FXLN, mod. well dev. oolitic Ls w/ mostly consistent ppt inter oolite porosity, DRK STN, SHW FRO, FR-GD ODR, HVY OILY SHEEN

Lm- Cream Off White, VF-FXLN, dense, well cemented, tight w/ some sctrd XLN porosity, some sl chalky in part

Chert- Translucent Cream, mix of fresh bedded vitreous chert w/o vis. porosity, several pcs of gritty dolomitic chert w/ sctrd micro XLN porosity, 2 PCS W/ LT SCTRD STN, NSFO, TR ODR

Lm- Cream Off White, FXLN, fsl, mod. dev. w/ sctrd ppt & XLN porosity, some sctrd reXLN, LT SCTRD STN, SEMI-FLAKY, NSFO, TR ODR

Lm- Cream, VF-FXLN, dense, well cemented, sctrd XLN & vry fn ppt porosity, SCTRD LT STN, TR FO, WK ODR

Lm- Cream, VFXLN, dense well cemented matrix, clear reXLN inclusions, fsl & sl oolitic w/ sctrd XLN & ppt inter oolite porosity, SCTRD LT STN, TR FO UPON CRUSH, FR ODR

Lm/Chert- Cream Off White, FXLN, sub-sucrosic dolomitic Ls w/ dense consistent XLN porosity, LT SCTRD STN, TR FO, FR ODR, mixed w/ vitreous fresh bedded off white chert

Lm- Cream Off White, FXLN, sl fsl, some massive, well cemented, sctrd XLN porosity, barren

Sh- Black Maroon Lm Green Gray, fissile & carbonaceous, gritty & earthy, dense & silty, calcareous

65' VSO WCM (50.35W,60M) 185' OSWCM (80%W, 20%M)

IFP: 58-156# (50.35W,60M) FFP: 165-244# SIP: 1216-1207# BHT: 103

DST #4 LKC C-G 3495' - 3670' (STRADDLE) 10-20-10-20

702' TOTAL FLUID 252' SOWCM (2%O, 98%M) 252' SOWCM (50,15W,80M) 315' GSOWCM (5G,50,40W,50M) 125' SOMCW (50, 70W, 25M) IFP: 75-218# FFP: 233-346# SIP: 1196-1177# SHORT TRIP SURVEY 1dgr. STRAP -.017'

DST #1 TORONTO - LKC A 3432' - 3490' 30-45-30-60

65' OSPM IFP: 15-31# FFP: 34-49# SIP: 977-951#

TORONT...

A.jpg

C.jpg

D.jpg

E.jpg

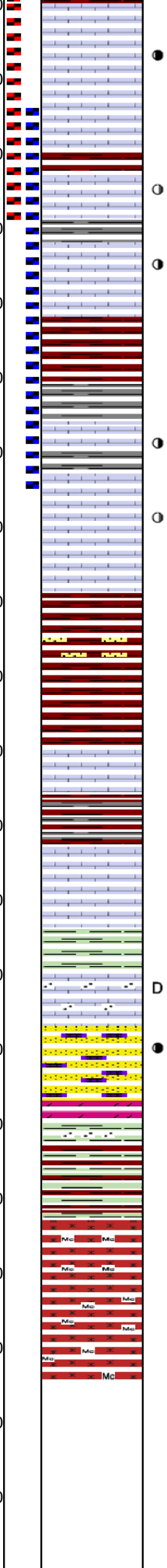
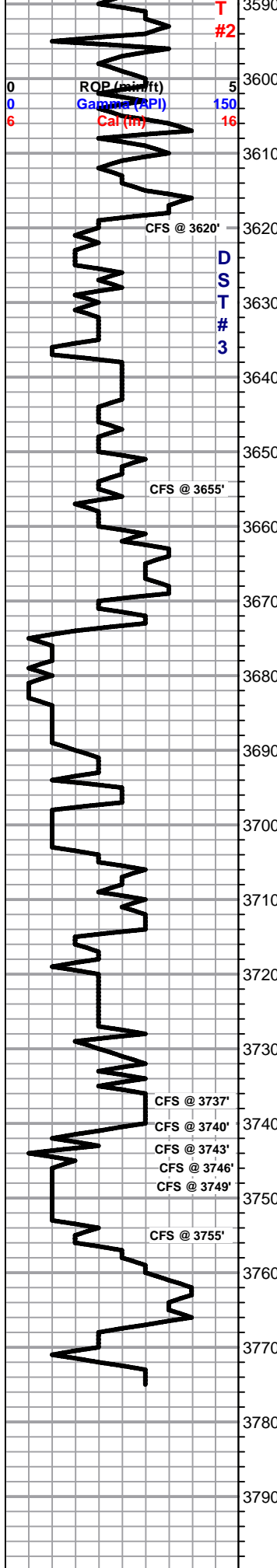
F.jpg

G.jpg

DST #2 LKC H-I 3576' - 3620' 30-45-20-0

5' OSPM IFP: 14-45# FFP: 16-N/A SIP: 45-N/A





Lm- White Cream, FXLN, mod. well dev. fsl & oolitic w/ sctrd ppt inter oolite & XLN porosity, some loosely cemented, SCTRD DRK STN, LT SFO, WK ODR

Sh- Maroon Lm Green, gummy wash, silty & calcareous

Lm- Cream Off White, FXLN, oolitic, mod. dev. w/ sctrd ppt inter oolite porosity, reXLN w/in porosity, WK SCKTRD STN, NSFO, WK ODR

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

Lm- White Off White, FXLN, fsl & oolitic, poorly dev. & chalky in part, sctrd vry fn ppt inter oolite & XLN porosity SCTRD LT STN, SEMI-FLAKY, NSFO, TR ODR, 1 PCS W/ TR OF GSY BUBBLES UPON CRUSH

Lm- White Off White, VF-FXLN, mod. dev. oolitic w/ dense micro XLN & XLN porosity, some sctrd reXLN, some sl chalky in part, SCTRD DRK STN, NSFO, TR ODR

Lm- White Off White, FXLN, fsl w/ fusulinids, sctrd XLN porosity, MULTIPLE PCS W/ BLK TARRY STN, DO STN, 1 PCS W/ TR GSY BUBBLES UPON CRUSH, NO ODR

**BKC 3669' (-1368) E-LOG 3669' (-1368)** Sh- Maroon Gray Lm Green, gritty & earthy, arenaceous, some pebbly, sandy wash, few w/ pyrite inclusions

Sh- A/A, some striated & limey

Lm- Cream Off White Yellow tint, unconsolidated, loosely to well cemented, pebbly & oolitic, sctrd XLN porosity, some soft white chalk

Lm- Maroon tint, Fn Grn, arenaceous, loosely cemented, some well cemented w/ few rounded qtz. inclusions

Sh- Lm Green, arenaceous & calcareous, shaley Ss/sandy shale

Lm- White Off White, FXLN, mix of unconsolidated & well cemented w/ rounded to angular clear qtz. inclusions & mod. cemented w/ sctrd to dense XLN porosity, SCTRD BLK DO STN, NSFO, NO ODR

**3737' 20"** - A/A w/ increase in qtz. quantity, near Ss, possible thin beds, well cemented, some what immature w/ good cementation, SUB-SAT DRK STN, NSFO, WK FLOR. NO ODR

**40"** - A/A w/ increase in Ca cementation, STN A/A, NSFO, NO ODR, LT FLOR.

**3740'** - Dolomite- Salmon, VFXLN, dense, well cemented to loosely cemented arenaceous dolomite w/ mostly consistent intergranular porosity, barren

**3743'** - Sh/Ss- Lm Green, dense & soft shale, Ss- Med Crs Grn, angular, immature, unconsolidated, spkld w/ glauconite, dolomite cementation, poorly sorted, barren

**3746'** - Sh- Maroon Lt Green, gritty & earthy, pebbly & soft

**3749'** - Sh- Maroon Lt Green, A/A w/ silty & soft green shale, some w/ micro pyrite inclusions, some gummy wash

**3755' GRANITE WASH 3753' (-1452) E-LOG 3753' (-1452)** - Pink Translucent, detrital feldspar, dense fracturing/XLN porosity, spkld w/ blk mica, barren

Granite Wash- A/A, influx of translucent, & influx of blk mica spkng

Granite Wash- A/A, influx of pink, also some soft white chalk

H.jpg

I.jpg

J.jpg

K.jpg

L.jpg

DST #3 LKC J-K  
3605' - 3655'  
30-45-30-60

5' OSPM

IFP: 19-25#  
FFP: 27-35#  
SIP: 542-541#

3720.jpg

3730.jpg

3743'.jpg

SHORT TRIP  
CTCH  
SURVEY 1 dgr.  
TOH FOR LOG

**RTD 3775' (-1474) LTD 3774' (-1473) @ 20:21 6/22/2015**

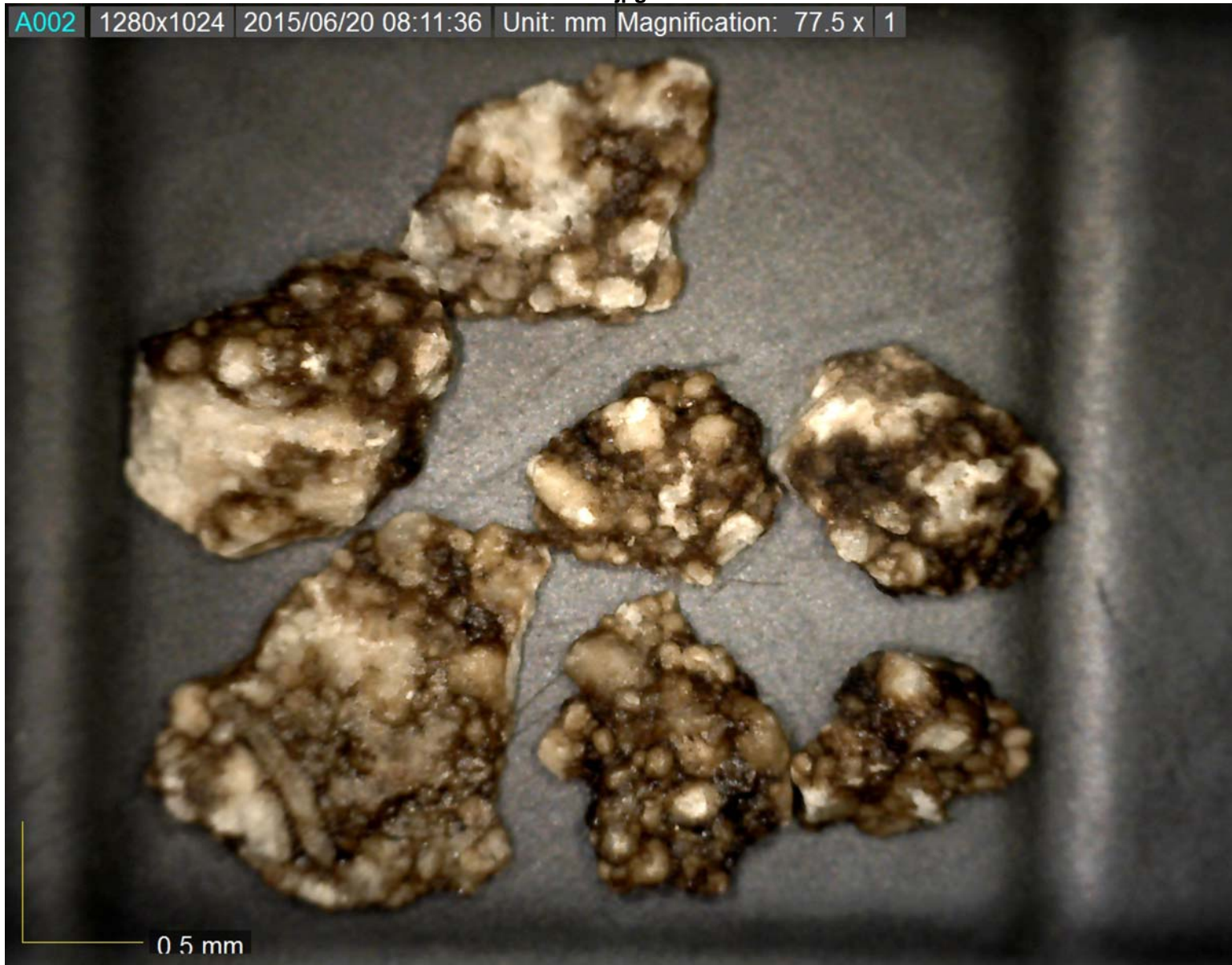
DST 4 BTM\_PKR.jpg

DST #5.jpg

DST 5 BTM\_PKR.jpg



TORONTO X 20



A ZONE X 20



C ZONE X 25



0.5 mm

D\_ZONE X 25





0.5 mm



H.jpg

A009 1280x1024 2015/06/21 07:20:01 Unit: mm Magnification: 96.9 x 1



H X25

I.jpg

A010 1280x1024 2015/06/21 08:18:57 Unit: mm Magnification: 96.9 x 1



I x25



J.jpg

A011 1280x1024 2015/06/21 20:14:41 Unit: mm Magnification: 96.9 x 1



.J X25

K.jpg

A012 1280x1024 2015/06/21 21:24:29 Unit: mm Magnification: 96.9 x 1



K x 25



0.5 mm

1 X 25





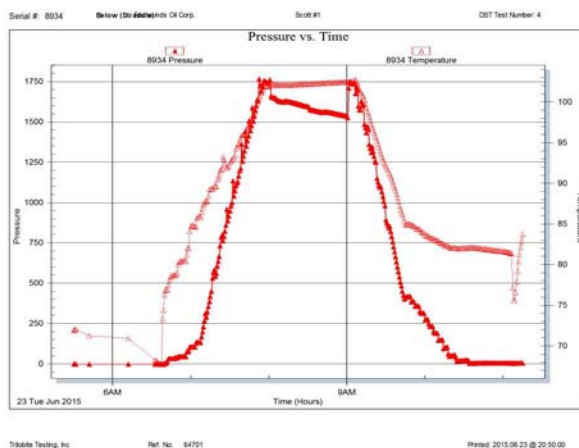
0.2 mm

3730' X30


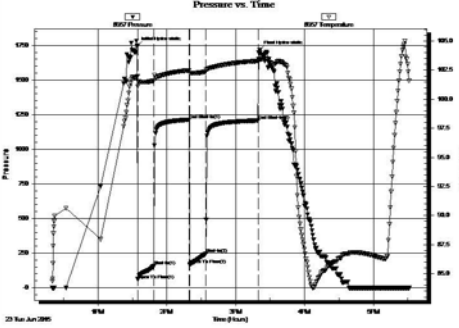


3743' X 25

DST 4 BTM\_PKR.jpg



# DST #5.jpg

|  |                                   |  |                                |                      |
|--|-----------------------------------|--|--------------------------------|----------------------|
|             | <b>DRILL STEM TEST REPORT</b>     |  |                                |                      |
|  | Four inds Oil Corp.               | 21-4-22, Norton, KS                      |                                |                      |
|  | <b>Scott #1</b>                   |  |                                |                      |
|  | Job Ticket: 64702                 | DST#: 5                                  |                                |                      |
| ATTN: Jeff Lawler  | Test Start: 2015.06.23 @ 12:20:00 |  |                                |                      |
| <b>GENERAL INFORMATION:</b>  |                                   |  |                                |                      |
| Formation: <b>KC</b>   |                                   | Test Type: Conventional Straddle (Reset) |                                |                      |
| Deviated: No Whipstock: ft (KB)  |                                   | Tester: Brett Dickinson                  |                                |                      |
| Time Tool Opened: 13:34:30   |                                   | Unit No: 81                              |                                |                      |
| Time Test Ended: 17:31:15  |                                   | Reference Elevations: 2301.00 ft (KB)    |                                |                      |
| Interval: 3497.00 ft (KB) To 3558.00 ft (KB) (TVD)   |                                   | 2296.00 ft (CF)                          |                                |                      |
| Total Depth: 3774.00 ft (KB) (TVD)   |                                   | KB to GR/CF: 5.00 ft                     |                                |                      |
| Hole Diameter: 7.88 inches   | Hole Condition: Fair              |  |                                |                      |
| <b>Serial #: 8957</b> Inside   |                                   | Capacity: 8000.00 psig                   |                                |                      |
| Press@RunDepth: 244.42 psig @ 3498.00 ft (KB)  |                                   | Last Calib.: 2015.06.23                  |                                |                      |
| Start Date: 2015.06.23   | End Date: 2015.06.23              | Time On Btm: 2015.06.23 @ 13:34:00       |                                |                      |
| Start Time: 12:20:05   | End Time: 17:31:14                | Time Off Btm: 2015.06.23 @ 15:21:00      |                                |                      |
| <b>TEST COMMENT:</b> IF-BOB in 5 1/2min<br>IS-surface blow<br>FF-BOB in 10min<br>FSI-No blow |                                   |  |                                |                      |
|            | <b>PRESSURE SUMMARY</b>           |  |                                |                      |
|  | Time (Min.)                       | Pressure (psig)                          | Temp (deg F)                   | Annotation           |
|  | 0                                 | 1743.28                                  | 101.94                         | Initial Hydro-static |
|  | 1                                 | 57.86                                    | 101.10                         | Open To Flow (1)     |
|  | 15                                | 156.09                                   | 101.59                         | Shut-In(1)           |
|  | 46                                | 1212.89                                  | 102.49                         | End Shut-In(1)       |
|  | 46                                | 165.32                                   | 102.23                         | Open To Flow (2)     |
|  | 60                                | 244.42                                   | 102.37                         | Shut-In(2)           |
|  | 106                               | 1207.29                                  | 103.29                         | End Shut-In(2)       |
|  | 107                               | 1717.16                                  | 103.46                         | Final Hydro-static   |
| <b>Recovery</b>  |                                   | <b>Gas Rates</b>                         |                                |                      |
| Length (ft)  | Description                       | Volume (bbl)                             |                                |                      |
| 185.00   | OSWCM 80%W 20%M                   | 1.50                                     |                                |                      |
| 65.00  | VSOWCM 5%O 35%W 60%M              | 0.91                                     |                                |                      |
| 210.00   | SGOWCM 5%G 10%O 20%W 65%M         | 2.95                                     |                                |                      |
| 30.00  | SGO 10%G 90%O                     | 0.42                                     |                                |                      |
| 0.00   | 180ft GIP                         | 0.00                                     |                                |                      |
| <small>* Recovery from multiple tests</small>  |                                   |  |                                |                      |
| Tribolite Testing, Inc   |                                   | Ref. No: 64702                           | Printed: 2015.06.23 @ 20:48:18 |                      |

# DST 5 BTM\_PKR.jpg

