



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1240372
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1240372

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |
| | | | | |

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Great Plains Energy, Inc. |
| Well Name | Colleen Rall Trust 1-10 |
| Doc ID | 1240372 |

Tops

| Name | Top | Datum |
|---------------|------|-------|
| Anhydrite | 3013 | +367 |
| Base | 3033 | +347 |
| Wabunsee | 3804 | -424 |
| Topeka | 4035 | -655 |
| Heebner | 4183 | -803 |
| LKC | 4233 | -853 |
| Marmaton | 4525 | -1145 |
| Cherokee | 4696 | -1316 |
| Mississippian | 4865 | -1485 |

GEOLOGICAL REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Great Plains Energy, Inc.
 LEASE Colleen Ball Trust #1-10
 FIELD Wildcat
 LOCATION 280' FSL + 550' FWL
 SEC 10 TWSP 65 RGE 36W
 COUNTY Thomas STATE Kansas

ELEVATION
 KB 3380
 DF 3378
 GL 3369
 Depths Measured From
 Log KB Drilling KB

CONTRACTOR Murkin Drilling Co Rig # 22
 SPUD 11-18-14 COMP 11-26-14
 SAMPLES SAVED FROM 3700' TO R.T.D.

CASING
 Surface 8 7/8" @ 266
 Production none
 ELECTRIC LOGS
Nabors

FORMATION TOPS AND STRUCTURAL POSITION

| FORMATION | SAMPLE | E. LOG | DATUM | A | B | C | D |
|------------------|--------|--------|--------|--------|--------|---|---|
| | | | | -0- | -0- | | |
| Anhydrite | | 3013 | + 367 | + 384 | + 373 | | |
| Base Anhydrite | | 3033 | + 347 | + 349 | + 337 | | |
| Wabawnee | 3802 | 3804 | - 424 | - 420 | - 426 | | |
| Topeka | 4034 | 4035 | - 655 | - 665 | - 671 | | |
| Heebner | 4180 | 4183 | - 803 | - 802 | - 811 | | |
| Toronto | 4212 | 4215 | - 835 | - 835 | - 845 | | |
| Lansing | 4230 | 4233 | - 853 | - 849 | - 861 | | |
| Base Kansas City | 4483 | 4486 | - 1106 | - 1101 | - 1113 | | |
| Marmaton | 4521 | 4525 | - 1145 | - 1134 | - 1150 | | |
| Pawnee | 4603 | 4606 | - 1226 | - 1121 | - 1226 | | |
| Cherokee Shale | 4693 | 4696 | - 1316 | - 1306 | - 1319 | | |
| Mississippian | 4861 | 4865 | - 1485 | | - 1477 | | |
| Total Depth | 4963 | 4967 | - 1587 | - 1488 | - 1505 | | |

REFERENCE WELLS

A G.P.E.: Luckert #1-15, SW-NE-SW Sec. 15-65-36W
 B G.P.E.: James #1-16, 1700' FSL + 450' FWL Sec. 16-65-36W
 C
 D

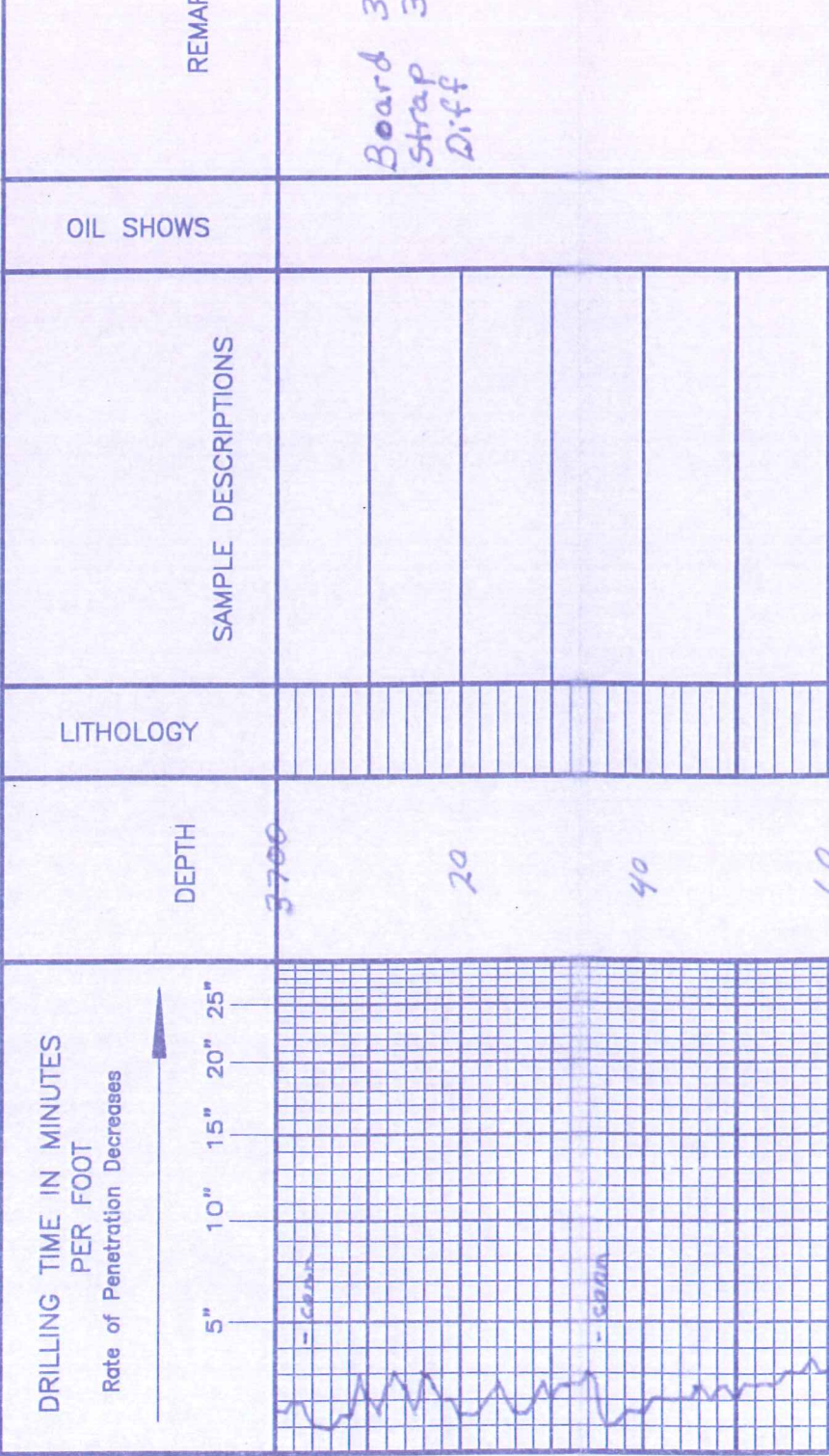
REMARKS

This well ran 4 feet lower to 8 feet higher on the lapsing top than the reference wells. After considering all pertinent information it was decided no further testing was warranted. The well was plugged and abandoned.

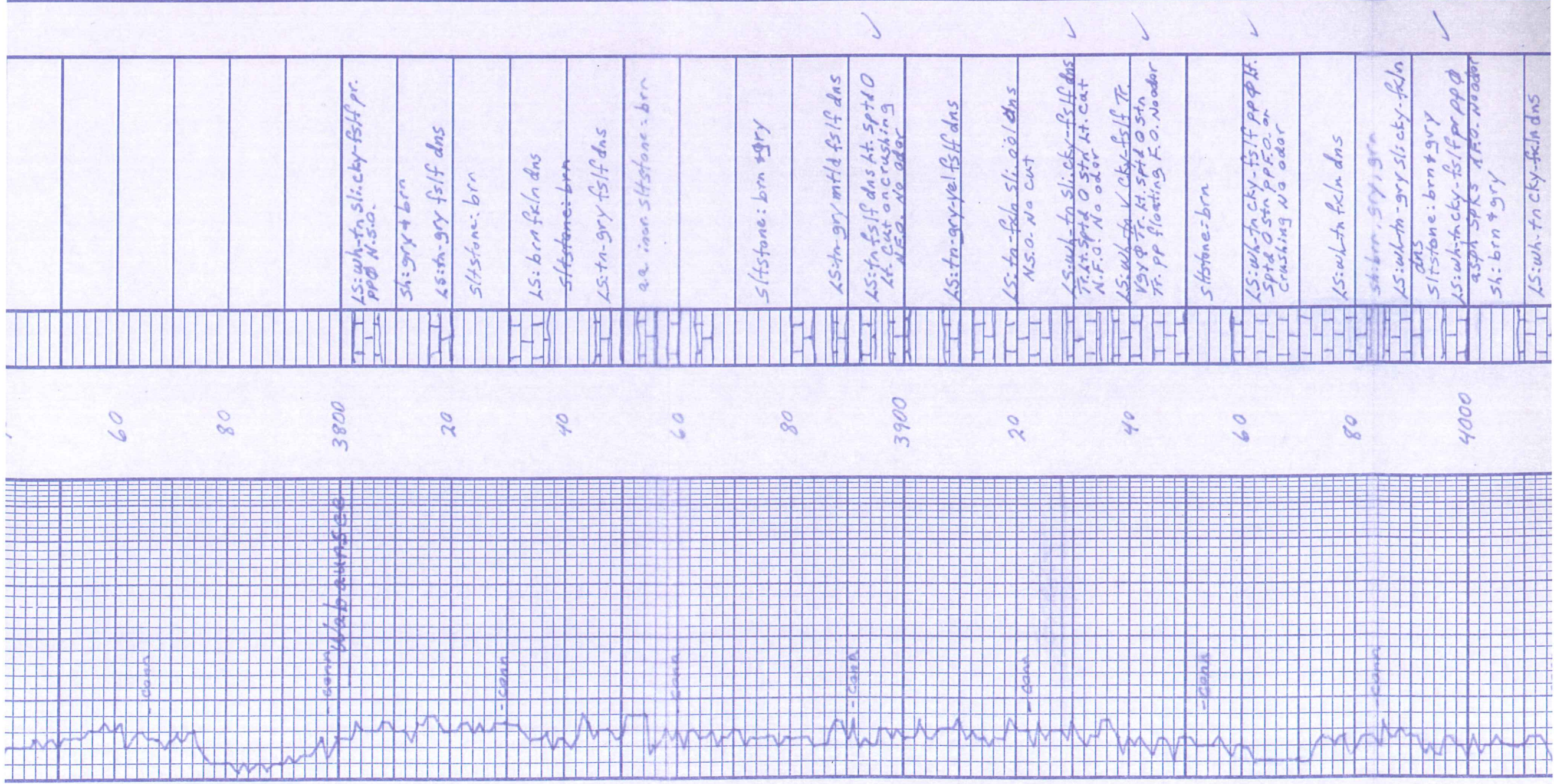
Richard B. Ball
11-28-14

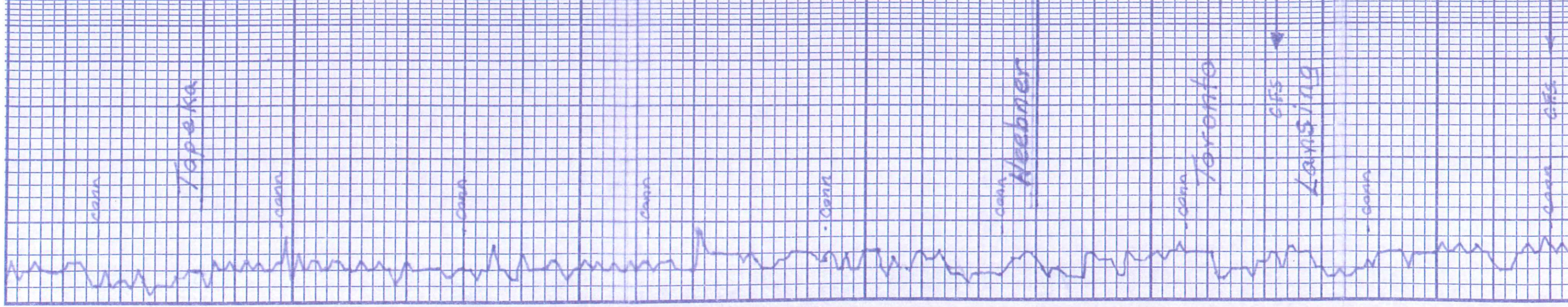
LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite



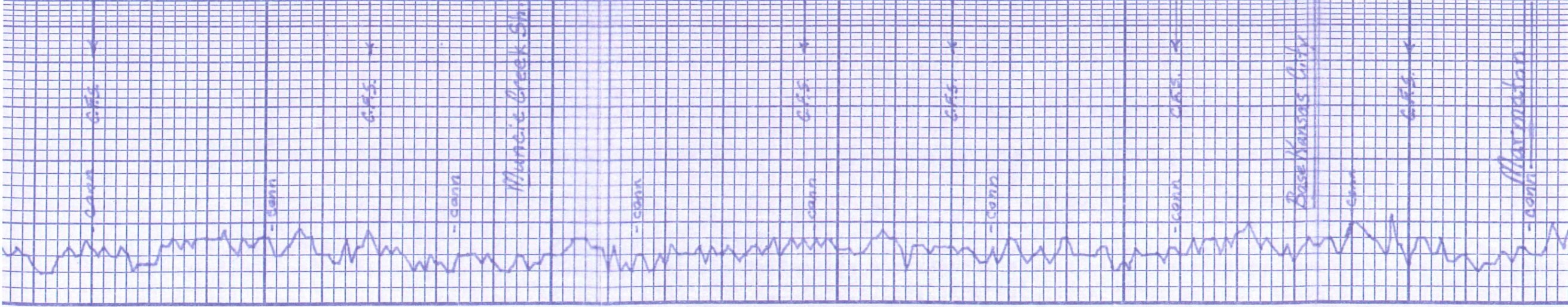
Samples ar
good sampl
until 4700





| | | |
|------|--|---|
| 7000 | | asph spks 1 ft. No odor sh: brn + gry |
| 20 | | LS: wh-tn cky-fxln dns |
| | | a.a. |
| | | sh: brn |
| 40 | | LS: wh-tn sli-cky-fxln dns |
| | | " |
| 60 | | LS: tn fsif dns |
| | | sltstone: brn |
| 80 | | LS: wh-tn cky-fxln-sli-fsif Tr. pp @ N.S.O. |
| 4100 | | LS: wh-tn cky-fxln-Tr sli. F.H. Tr. pp @ VRT asph spks K.R.T. sli. spt @ stn V.R.T. pp F.O. on crushing No odor |
| 20 | | LS: wh-tn-lt. gry-fxln-Tr sli. fsif dns N.S.O. |
| | | LS: aa |
| 40 | | Sh: blk Carb. |
| | | LS: tn - gry fsif dns |
| 60 | | LS: wh-tn fxln Tr. kgy @ N.S.O. |
| | | LS: wh-tn cky-fxln RT oolc N.S.O. |
| 80 | | Sh: blk Carb. |
| | | LS: tn fsif dns |
| 4200 | | Sh: blk brn + gr. SS: v. fn. grn. consol. ingrand N.S.O. |
| | | Sh: brn + gry pyrite |
| 20 | | LS: wh-tn cky-fxln ool- Sub ool pp @ N.S.O. |
| | | Sh: brn + gry |
| 40 | | LS: wh-tn fxln Tr. ool pp @ in part @ Tr. thick drk brn O. stn Tr. asph stn No odor |
| | | Sh: brn, gry, grn |
| 60 | | LS: wh-brn-cky-fxln sli ool- Sub ool pp @ sct pcs w/ Thick Tr. F.O. Tr. asph stn fr odor |

Trilobite 7



Sh: brn, gry, grn

LS: wh-tn. cky-fxln sli. oil-sub oil pp. 50% sct. p.c.s. w/ Thick Tary F.O. Tr. asphalt fr odor

LS: wh-tn. ht. gry sli. cky-fsif pr. pp. 0 fr. sptd. 0 stn Tr. pp F.O. on crushing No odor Δ ty tn-gry

LS: wh-tn fsif pp 0 ht. sptd 0 stn. No odor Tr. pp F.O.

LS: wh-tn sli. cky-fxln-sli. oil w/ foss incl. as pp 0 ht. sptd 0 stn. V. ht 0 set pp F.O. on crushing V. fr. odor

LS: pl-tn cky-fxln Tr. sli. oil-sub. oil pr. pp 0 Tr. No odor

LS: wh-tn sli. cky-fxln sli. fsif dns A tn-gry Sh: blk carb

LS: tn-gry fsif dns Sh: brn & gry pyrit

shly: a.g.

LS: wh-tn-gry sli. cky-fsif dns R.T. asphalt stn N.F.O.

Sh: gry, brn, grn

LS: tn-ht. gry fxln-Tr. sli. BIF dns N.S.O.

LS: wh-tn fxln-sli-fsif pr. pp 0 ht. sptd 0 stn. ht. 0 sat floating F.O. No odor Δ gry

Sh: brn, gry, grn

LS: wh-tn sli. cky-fxln dns Tr. pr. pp 0 ht. sptd 0 stn Tr. asphalt Tr. ppt. 0 on crushing No odor Δ gry

Sh: brn, gry, grn

LS: wh-tn-gry sli. cky-fxln dns ht. pr. sptd 0 stn N.F.O. No odor Δ tn Sh: brn

LS: tn fxln-sub oil w/ foss incl. as dns ht. 0 set pp F.O. on crushing No odor Sh: gry & brn

LS: wh-tn-gry fxln dns Tr. fsif dns R.T. pr. ht 0 stn

Trilobite 7

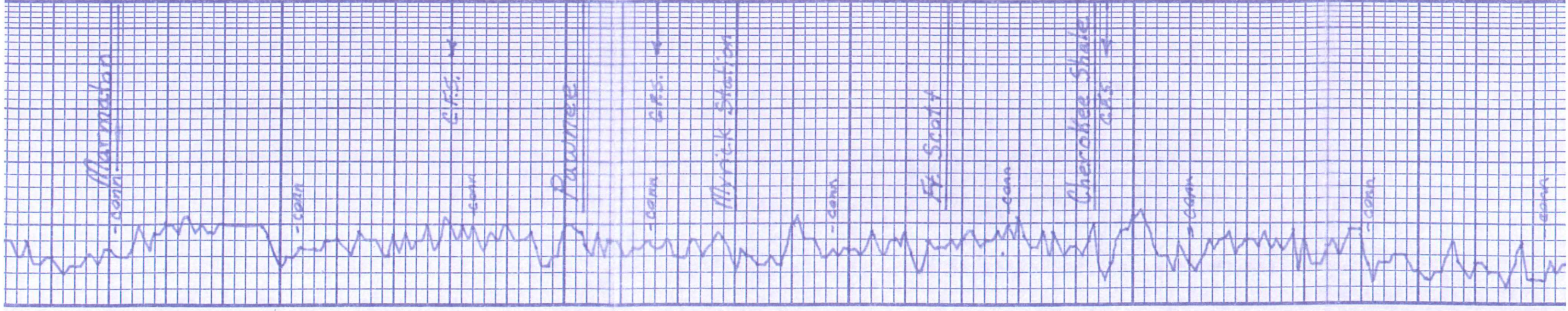
DST #1 42
30-60-30
IF: wk blow in
FF: No blow
Recovery: 1
2' F.O.
13' OCM 20%
HYD: 2304-
FP: 15-20/
BHP: 1277-
BH Temp: 125
Incline @ 43

DST #2 43
30-60-30
IF: 4x" blo
FF: No blow
Recovery: 5
HYD: 2251-
FP: 33-58/
BHP: 479-
BH Temp: 12

Straddle 7

DST #4 44
30-60-30
IF: B.O.B. in
ISI: V. wk bla
FF: B.O.B. in
ISI: No blow
Recovery: 1
1' C.O.
198' OS MW
882' OS MW 95
HYD: 2327-
FP: 53-323/
BHP: 1307-
BH Temp: 13
Chlorides: 4

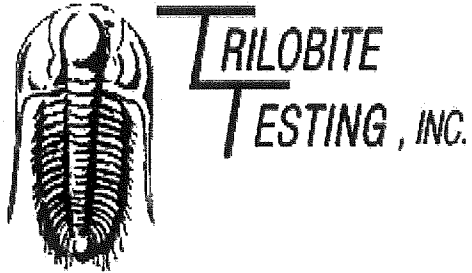
DST #3 44
30-60-30
IF: B.O.B. in
ISI: No blow
FF: B.O.B. in
FST: No blow
Recovery: 6
347' OS MW 14



| | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|-------------------|---|--------------------|----------------------------------|------------------------|---------------------|---|--|--|--|--------------|------------------------------------|-------------------------|--------------|---|---|--------------|---|-------------------|--|
| Sh: gry + brn | LS: wh-tn-gry fxl n dns Tr. fs/f dns R.T. pr. at Osh N.F.O. | Sh: brn, gry, grn | LS: tn fs/f dns - Tr. pr. PP & Lt. Spid O Sh. PPFO. ancrushing Tr. UGY & No odor | Sh: brn, gry + grn | LS: tn - gry fxl n dns N.S.O. | LS: tn - gry fxl n dns | shly: gry, brn, grn | LS: tn fxl n dns Tr. ht. spid O sin Tr. PPFO. No odor A wh-t. gry | LS: wh-grv fxl n - sli. fs/f dns N.S.O. | LS: wh-tn - ht. gry sli. cky- fxln dns N.S.O. | LS: wh-tn - gry sli. cky - fxl n pr. PP & N.S.O. Tr. A tn - gry fs/f | Sh: blk Carb | LS: wh-ta fxl n pr. pp & N.S.O. | LS: tn fxl n dns N.S.O. | Sh: blk Carb | LS: tn fxl n dns lot of Sh: gry, grn | LS: tn fxl n dns lot Sh: brn, gry, grn | Sh: brn, gry | RT. Qtz sd sub rnd - ang fracted w/ asph Tr. SS: tn grn consol ingan & pr O sat N.F.O. No odor | Sh: brn, gry, grn | RT Tr. Qtz Coars unconsol Consol. Sub rnd |
|---------------|---|-------------------|---|--------------------|----------------------------------|------------------------|---------------------|---|--|--|--|--------------|------------------------------------|-------------------------|--------------|---|---|--------------|---|-------------------|--|

30-60-30
 IF: 8.0.B.in
 ISI: No blow
 FF: 8.0.B.in
 FSI: No blow
 Recovery: 6
 347' OSWIM 1
 347' OSWIM 7
 HYD: 2376
 FP: 23-215/
 BHP: 1408-1
 BHTemp: 13
 Chlorides: 30

Poor Sam
 from 4700
 add mud-
 but sample
 very shly



DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 S. 58th St., Ste B
Lincoln NE. 68516

ATTN: Richard Bell

Colleen Rall #1-10

10-6s-36w Thomas,KS

Start Date: 2014.11.22 @ 02:30:00

End Date: 2014.11.22 @ 09:38:45

Job Ticket #: 61008 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.26 @ 13:30:06

Great Plains Energy, Inc.

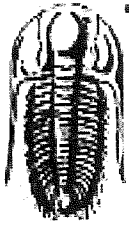
10-6s-36w Thomas,KS

Colleen Rall #1-10

DST # 1

Lans, - 'E & F'

2014.11.22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Great Plains Energy, Inc.

6121 S. 58th St., Ste B
Lincoln NE 68516

ATTN: Richard Bell

10-6s-36w Thomas, KS

Colleen Rall #1-10

Job Ticket: 61008

DST#: 1

Test Start: 2014.11.22 @ 02:30:00

GENERAL INFORMATION:

Formation: **Lans, - 'E & F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:33:15
 Time Test Ended: 09:38:45

Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54

Interval: **4289.00 ft (KB) To 4318.00 ft (KB) (TVD)**
 Total Depth: 4318.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3380.00 ft (KB)
 3371.00 ft (CF)
 KB to GR/CF: 9.00 ft

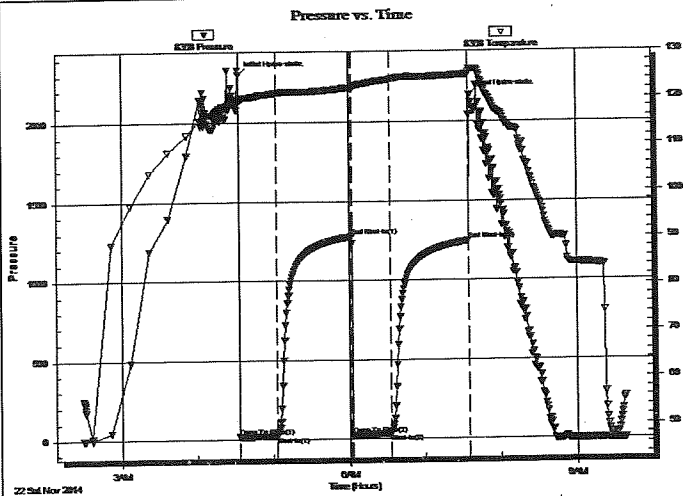
Serial #: **8368**

Outside

Press@RunDepth: 30.94 psig @ 4290.00 ft (KB)
 Start Date: 2014.11.22 End Date: 2014.11.22
 Start Time: 02:30:05 End Time: 09:38:44

Capacity: 8000.00 psig
 Last Calib.: 2014.11.22
 Time On Btm: 2014.11.22 @ 04:33:00
 Time Off Btm: 2014.11.22 @ 07:36:00

TEST COMMENT: 30 - IF - Surface blow built to 1 1/4"
 60 - ISI - No Return
 30 - FF - No Surface blow
 60 - FSI - No Return



PRESSURE SUMMARY

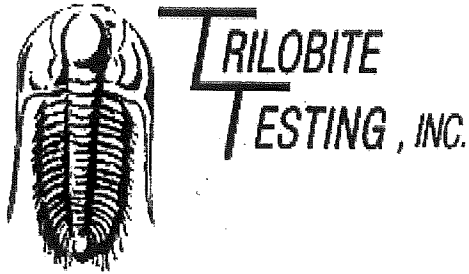
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2304.24 | 119.96 | Initial Hydro-static |
| 1 | 15.62 | 119.33 | Open To Flow (1) |
| 30 | 20.79 | 121.12 | Shut-In(1) |
| 89 | 1277.47 | 122.25 | End Shut-In(1) |
| 90 | 23.54 | 121.81 | Open To Flow (2) |
| 120 | 30.94 | 123.94 | Shut-In(2) |
| 182 | 1247.18 | 125.02 | End Shut-In(2) |
| 183 | 2168.18 | 126.16 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 2.00 | Free Oil - 100o | 0.01 |
| 13.00 | OCM - 80M - 20o | 0.06 |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 S. 58th St., Ste B
Lincoln NE. 68516

ATTN: Richard Bell

Colleen Rall #1-10

10-6s-36w Thomas,KS

Start Date: 2014.11.22 @ 22:42:00

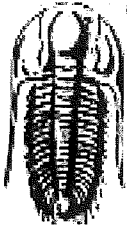
End Date: 2014.11.23 @ 06:02:45

Job Ticket #: 61009 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy, Inc.
6121 S. 58th St., Ste B
Lincoln NE 68516
ATTN: Richard Bell

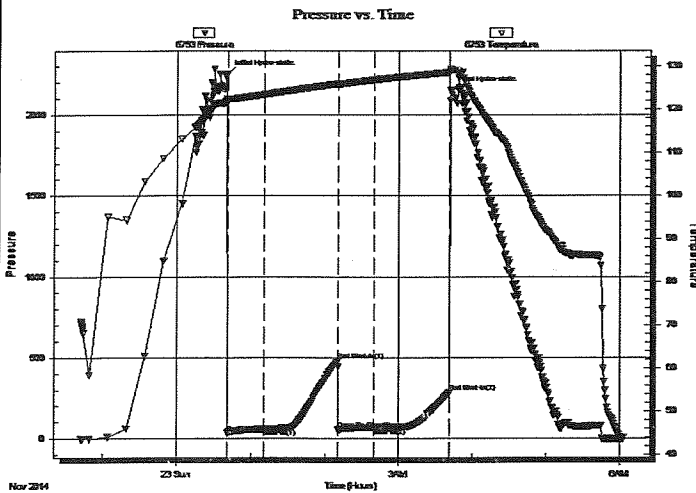
10-6s-36w Thomas,KS
Colleen Rail #1-10
Job Ticket: 61009 **DST#: 2**
Test Start: 2014.11.22 @ 22:42:00

GENERAL INFORMATION:

Formation: **LKC - 'J'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:40:45
Time Test Ended: 06:02:45
Interval: **4376.00 ft (KB) To 4420.00 ft (KB) (TVD)**
Total Depth: 4420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Royal Fisher
Unit No: 54
Reference Elevations: 3380.00 ft (KB)
3371.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6753 Outside
Press@RunDepth: 67.06 psig @ 4377.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.22 End Date: 2014.11.23 Last Calib.: 2014.11.23
Start Time: 22:42:05 End Time: 06:02:44 Time On Btm: 2014.11.23 @ 00:40:30
Time Off Btm: 2014.11.23 @ 03:42:30

TEST COMMENT: 30 - IF - Surface blow built to 1/4"
60 - ISI - No Return
30 - FF - No Surface blow
60 - FSI - No Return



PRESSURE SUMMARY

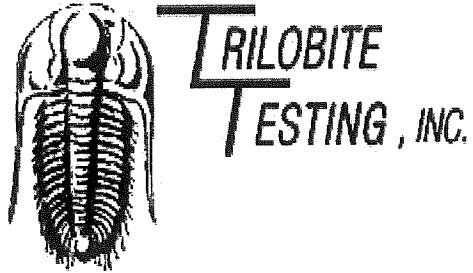
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2251.64 | 122.40 | Initial Hydro-static |
| 1 | 33.02 | 121.74 | Open To Flow (1) |
| 30 | 58.45 | 123.50 | Shut-In(1) |
| 90 | 479.29 | 126.00 | End Shut-In(1) |
| 91 | 52.62 | 125.85 | Open To Flow (2) |
| 120 | 67.06 | 126.93 | Shut-In(2) |
| 181 | 283.45 | 128.68 | End Shut-In(2) |
| 182 | 2151.65 | 129.45 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 5.00 | OSM - 100M - Oil Spots | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 S. 58th St., Ste B
Lincoln NE. 68516

ATTN: Richard Bell

Colleen Rall #1-10

10-6s-36w Thomas,KS

Start Date: 2014.11.24 @ 01:18:00

End Date: 2014.11.24 @ 09:48:45

Job Ticket #: 61010 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.26 @ 13:29:01

Great Plains Energy, Inc. 10-6s-36w Thomas,KS Colleen Rall #1-10 DST # 3 Marmaton 2014.11.24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy, Inc.

10-6s-36w Thomas,KS

6121 S. 58th St., Ste B
Lincoln NE 68516

Colleen Rall #1-10

ATTN: Richard Bell

Job Ticket: 61010

DST#: 3

Test Start: 2014.11.24 @ 01:18:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:36:00

Time Test Ended: 09:48:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 54

Interval: **4477.00 ft (KB) To 4580.00 ft (KB) (TVD)**

Reference Elevations: 3380.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

3371.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: **6753**

Outside

Press@RunDepth: 329.33 psig @ 4478.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.24

End Date: 2014.11.24

Last Calib.: 2014.11.24

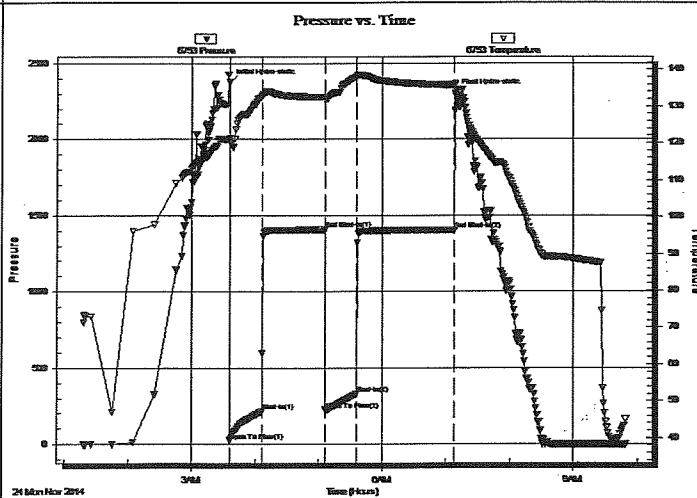
Start Time: 01:18:05

End Time: 09:48:44

Time On Btm: 2014.11.24 @ 03:35:45

Time Off Btm: 2014.11.24 @ 07:09:00

TEST COMMENT: 30 - IF - Surface blow built to bottom of the bucket in 15 mins.
60 - ISI - No Return
30 - FF - Surface blow built to bottom of the bucket in 21 mins.
90 - FSI - No Return



PRESSURE SUMMARY

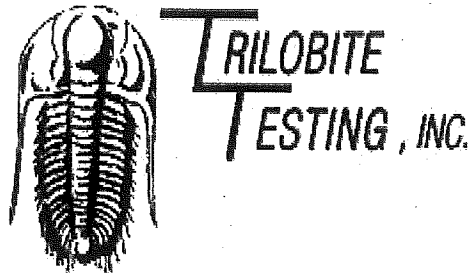
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2376.42 | 121.20 | Initial Hydro-static |
| 1 | 23.91 | 120.18 | Open To Flow (1) |
| 31 | 215.41 | 132.69 | Shut-In(1) |
| 91 | 1408.28 | 132.43 | End Shut-In(1) |
| 91 | 224.87 | 131.64 | Open To Flow (2) |
| 121 | 329.33 | 138.00 | Shut-In(2) |
| 213 | 1405.05 | 135.72 | End Shut-In(2) |
| 214 | 2304.34 | 136.00 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------|--------------|
| 347.00 | OSMW - 30M - 70W - Oil Spots | 2.74 |
| 347.00 | OSWM - 90M - 10W - Oil Spots | 4.87 |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

6121 S. 58th St., Ste B
Lincoln NE. 68516

ATTN: Richard Bell

Colleen Rall #1-10

10-6s-36w Thomas,KS

Start Date: 2014.11.25 @ 23:47:00

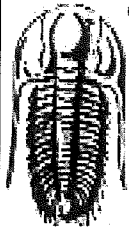
End Date: 2014.11.26 @ 08:01:30

Job Ticket #: 61011 DST #: 4

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Great Plains Energy, Inc.
6121 S. 58th St., Ste B
Lincoln NE 68516
ATTN: Richard Bell

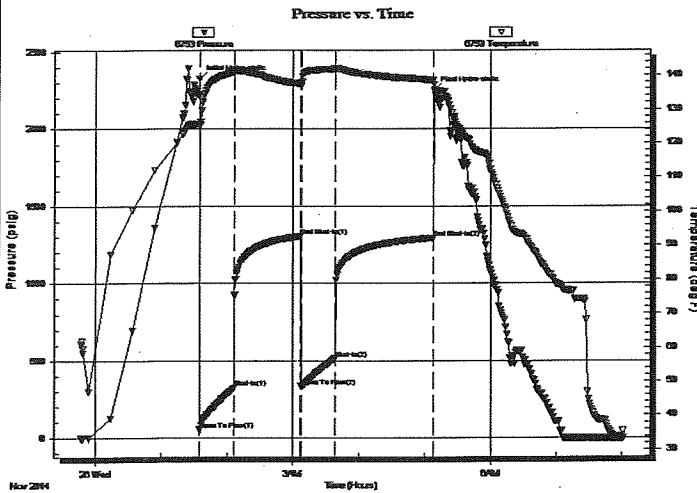
10-6s-36w Thomas,KS
Colleen Rall #1-10
Job Ticket: 61011 **DST#: 4**
Test Start: 2014.11.25 @ 23:47:00

GENERAL INFORMATION:

Formation: **LKC - 'K'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:35:30
Time Test Ended: 08:01:30
Interval: **4448.00 ft (KB) To 4458.00 ft (KB) (TVD)**
Total Depth: 4967.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Straddle (Initial)
Tester: Royal Fisher
Unit No: #54
Reference Elevations: 3380.00 ft (KB)
3371.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6753 Inside
Press@RunDepth: 513.33 psig @ 4449.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.25 End Date: 2014.11.26 Last Calib.: 2014.11.26
Start Time: 23:47:05 End Time: 08:01:29 Time On Btm: 2014.11.26 @ 01:35:15
Time Off Btm: 2014.11.26 @ 05:08:45

TEST COMMENT: 30 - IF - BOB in 4 mins.
60 - ISI - Very faint return started in 4 mins. then dead in 11 mins.
30 - FF - Surface blow built to bottom of the bucket in 10 mins.
90 - FSI - No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2327.51 | 125.59 | Initial Hydro-static |
| 1 | 53.84 | 125.19 | Open To Flow (1) |
| 32 | 323.75 | 140.94 | Shut-In(1) |
| 92 | 1307.00 | 137.51 | End Shut-In(1) |
| 92 | 333.79 | 136.87 | Open To Flow (2) |
| 123 | 513.33 | 141.86 | Shut-In(2) |
| 213 | 1295.36 | 138.43 | End Shut-In(2) |
| 214 | 2252.69 | 137.20 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------|--------------|
| 882.00 | OSMW - 5M - 95W - Oil Spots | 10.25 |
| 198.00 | OSMW - 35M - 65W - Oil Spots | 2.78 |
| 1.00 | Free Oil - 100o | 0.01 |
| | | |
| | | |

Gas Rates

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