Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1071295

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 # 3293
Name: Russell Oil, Inc.
Address 1: PO BOX 8050
Address 2:
City: EDMOND State: OK Zip: 73083 + ____
Contact Person: LEROY HOLT
Phone: (405) 752-7600
CONTRACTOR: License # 33793
Name: H2 Drilling LLC
Wellsite Geologist: STEVEN ANGLE
Purchaser: NA

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 #:

9/22/2011	10/2/2011	10/03/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-109-21032-00-00
Spot Description:
SE - SE - NW - SE Sec. 5 Twp. 11 S. R. 34 ☐ East ☑ West
1600 Feet from ☐ North / ☑ South Line of Section
1500 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Logan
Lease Name: James D Well #: 1-5
Field Name: WILDCAT
Producing Formation: NA
Elevation: Ground: 3250 Kelly Bushing: 4900
Total Vertical Depth: 4900 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 255 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: 41000 ppm Fluid volume: 900 bbls
Dewatering method used: Evaporated

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: 01/05/2012
☑ **Confidential Release Date:** 01/04/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 01/09/2012

[redacted] 1071295

Operator Name: Russell Oil, Inc. Lease Name: James D Well #: 1-5

Sec. 5 Twp. 11 S. R. 34 ☐ East ☑ West County: Logan

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
SURFACE	12.25	8.625	23	255	COMMON	200	3%CC:2%GEL

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: NA Set At: NA Packer At: NA 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: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	James D 1-5
Doc ID	1071295

All Electric Logs Run

MICRORESISTIVITY
DUAL COMPENSATED POROSITY
DUAL INDUCTION
BOREHOLE COMPENSATED SONIC
COMPUTER PROCESSED INTERPRETATION

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	James D 1-5
Doc ID	1071295

Tops

Name	Top	Datum
BASE ANHYDRITE	2772	+487
TOPEKA	3911	-652
HEEBNER	4131	-872
TORONTO	4154	-895
LANSING KC	4170	-911
STARK SHALE	4398	-1139
BASE KC	4479	-1220
MARMATON	4503	-1244
PAWNEE	4588	-1329
MYRIC STATION	4623	-1364
FT SCOTT	4645	-1386
CHEROKEE SHALE	4676	-1417
ATOKA LIME	4752	-1493
BASE PENN SD	4778	-1519
MISSISSIPPI	4858	-1599

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 05, 2012

LEROY HOLT
Russell Oil, Inc.
PO BOX 8050
EDMOND, OK 73083

Re: ACO1
API 15-109-21032-00-00
James D 1-5
SE/4 Sec.05-11S-34W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
LEROY HOLT

DRILL STEM TEST REPORT

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44485 **DST#: 1**

Test Start: 2011.09.28 @ 10:58:00

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:38:15
Time Test Ended: 19:22:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 40

Interval: 4310.00 ft (KB) To 4339.00 ft (KB) (TVD)
Total Depth: 4339.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

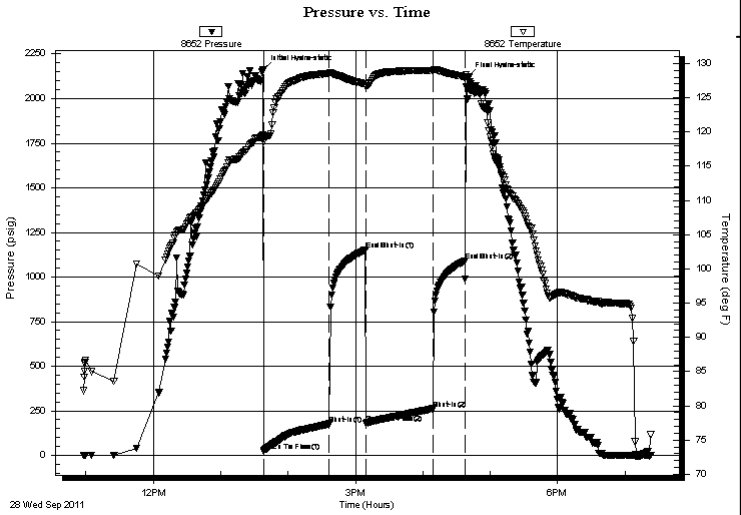
Reference Elevations: 3260.00 ft (KB)
3249.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8652 **Inside**

Press@RunDepth: 261.45 psig @ 4311.00 ft (KB)
Start Date: 2011.09.28 End Date: 2011.09.28
Start Time: 10:58:05 End Time: 19:22:44

Capacity: 8000.00 psig
Last Calib.: 2011.09.28
Time On Btm: 2011.09.28 @ 13:38:00
Time Off Btm: 2011.09.28 @ 16:40:30

TEST COMMENT: IF: BOB @ 34 minutes.
ISI: No return.
FF: 9" blow .
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.90	119.59	Initial Hydro-static
1	23.86	118.57	Open To Flow (1)
59	176.64	128.54	Shut-In(1)
91	1151.80	126.98	End Shut-In(1)
92	181.16	126.55	Open To Flow (2)
151	261.45	128.98	Shut-In(2)
180	1091.50	128.03	End Shut-In(2)
183	2122.15	126.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	mcw 10m 90w (oil spots in tool)	4.18

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44485 **DST#: 1**

Test Start: 2011.09.28 @ 10:58:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	32000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	mcw 10m 90w (oil spots in tool)	4.182

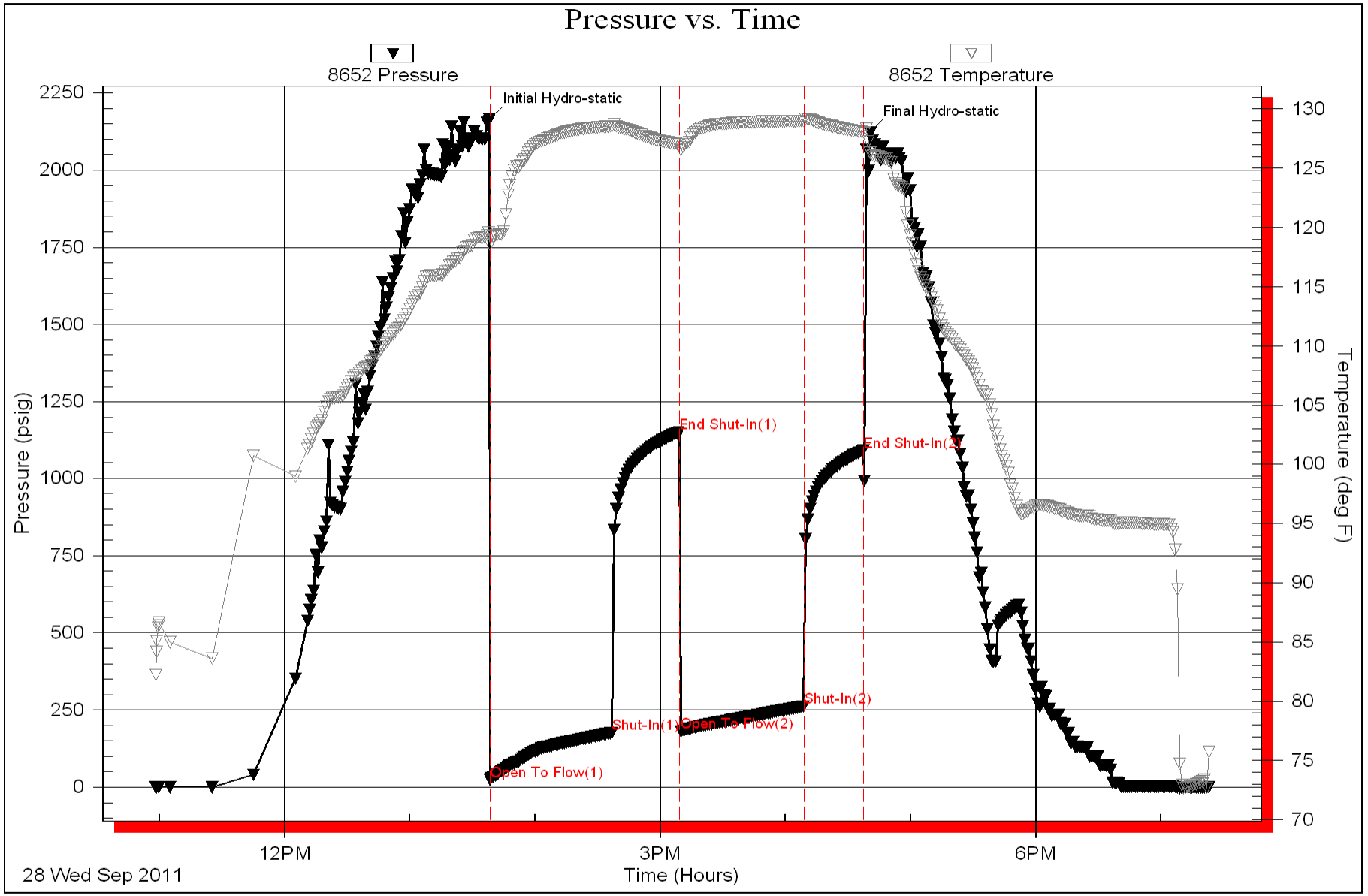
Total Length: 480.00 ft Total Volume: 4.182 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .172 @ 83f = 32000ppm

Serial #: 8652 **Inside** Russell Oil, Inc James D 1-5 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44485 Printed: 2011.09.29 @ 08:18:16

DRILL STEM TEST REPORT

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44486 **DST#: 2**

Test Start: 2011.09.29 @ 08:18:00

GENERAL INFORMATION:

Formation: **LKC J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:36:30
Time Test Ended: 16:01:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 40

Interval: 0.00 ft (KB) To 0.00 ft (KB) (TVD)
Total Depth: 4396.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

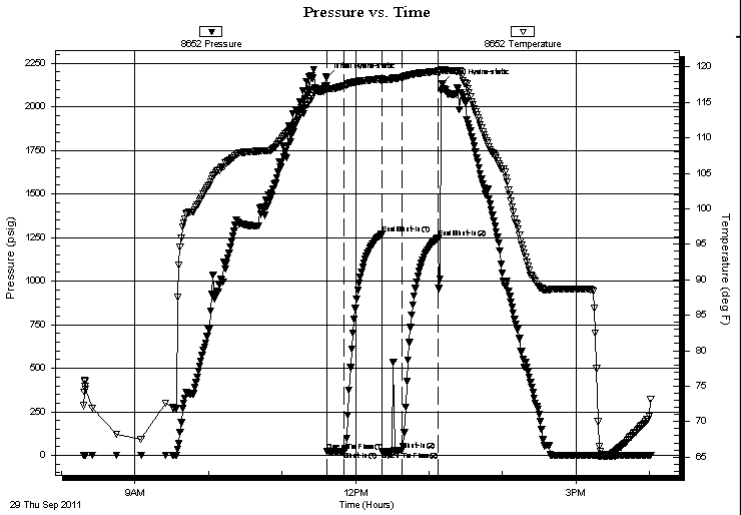
Reference Elevations: 3260.00 ft (KB)
3249.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8652 **Inside**

Press@RunDepth: 28.91 psig @ 4346.00 ft (KB)
Start Date: 2011.09.29 End Date: 2011.09.29
Start Time: 08:18:05 End Time: 16:00:59

Capacity: 8000.00 psig
Last Calib.: 2011.09.29
Time On Btm: 2011.09.29 @ 11:36:15
Time Off Btm: 2011.09.29 @ 13:10:45

TEST COMMENT: IF: Surface blow , died @ 9 minutes..
ISI: No return.
FF: No blow .
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2166.49	117.40	Initial Hydro-static
1	22.94	116.71	Open To Flow (1)
15	23.42	117.38	Shut-In(1)
45	1268.43	118.35	End Shut-In(1)
46	25.03	117.97	Open To Flow (2)
62	28.91	118.54	Shut-In(2)
92	1249.30	119.41	End Shut-In(2)
95	2130.60	119.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100m	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44486 **DST#: 2**

Test Start: 2011.09.29 @ 08:18:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

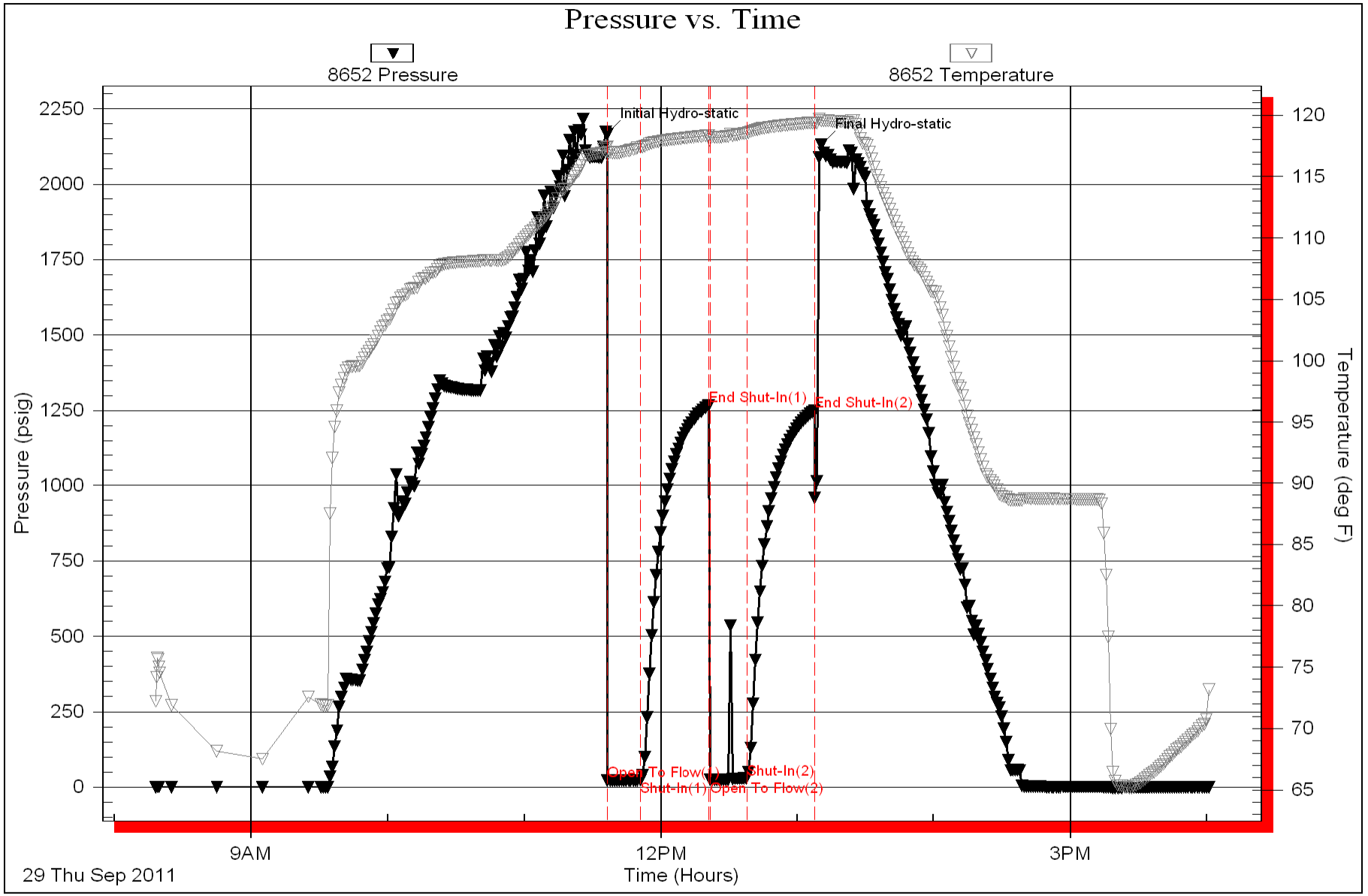
Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8652 **Inside** Russell Oil, Inc James D 1-5 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 44486 Printed: 2011.09.30 @ 08:28:23

DRILL STEM TEST REPORT

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44487 **DST#: 3**

Test Start: 2011.09.30 @ 00:45:00

GENERAL INFORMATION:

Formation: **LKC K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:17:30
Time Test Ended: 09:25:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 40

Interval: 4396.00 ft (KB) To 4430.00 ft (KB) (TVD)
Total Depth: 4339.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

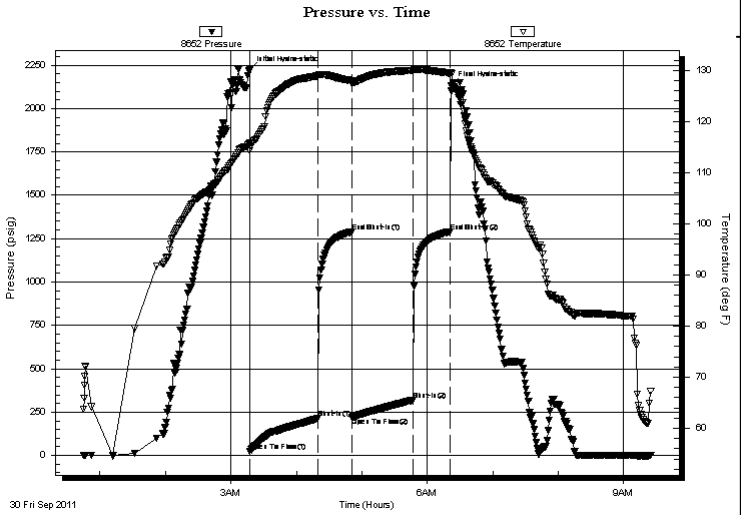
Reference Elevations: 3260.00 ft (KB)
3249.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8652 **Inside**

Press@RunDepth: 320.28 psig @ 4397.00 ft (KB)
Start Date: 2011.09.30 End Date: 2011.09.30
Start Time: 00:45:05 End Time: 09:25:15

Capacity: 8000.00 psig
Last Calib.: 2011.09.30
Time On Btm: 2011.09.30 @ 03:17:15
Time Off Btm: 2011.09.30 @ 06:22:15

TEST COMMENT: IF: BOB 26 minutes.
ISI: No return.
FF: BOB @ 50 minutes.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2221.68	115.74	Initial Hydro-static
1	24.62	114.30	Open To Flow (1)
63	214.24	128.96	Shut-In(1)
94	1288.95	128.00	End Shut-In(1)
94	220.24	127.49	Open To Flow (2)
150	320.28	129.98	Shut-In(2)
184	1287.47	129.49	End Shut-In(2)
185	2130.49	129.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	mcw 10m 90w	6.79

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44487 **DST#: 3**

Test Start: 2011.09.30 @ 00:45:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	50000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.40 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
640.00	mcw 10m 90w	6.791

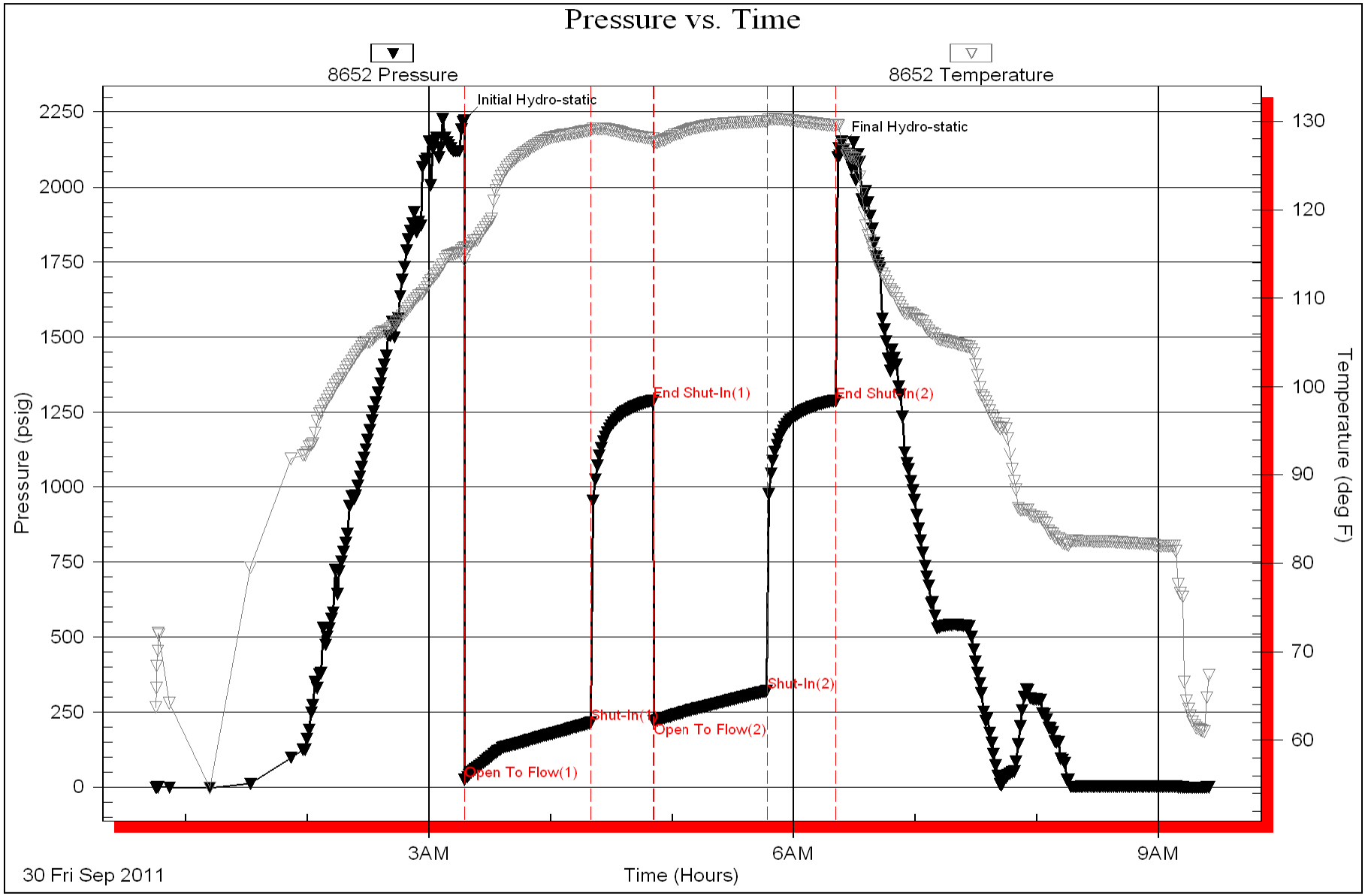
Total Length: 640.00 ft Total Volume: 6.791 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .159 @ 65F = 50,000ppm

Serial #: 8652 **Inside** Russell Oil, Inc James D 1-5 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 44487 Printed: 2011.09.30 @ 10:50:06

DRILL STEM TEST REPORT

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44488 **DST#: 4**

Test Start: 2011.10.01 @ 19:36:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:40:45
Time Test Ended: 05:08:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 40

Interval: 4671.00 ft (KB) To 4678.00 ft (KB) (TVD)
Total Depth: 4748.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

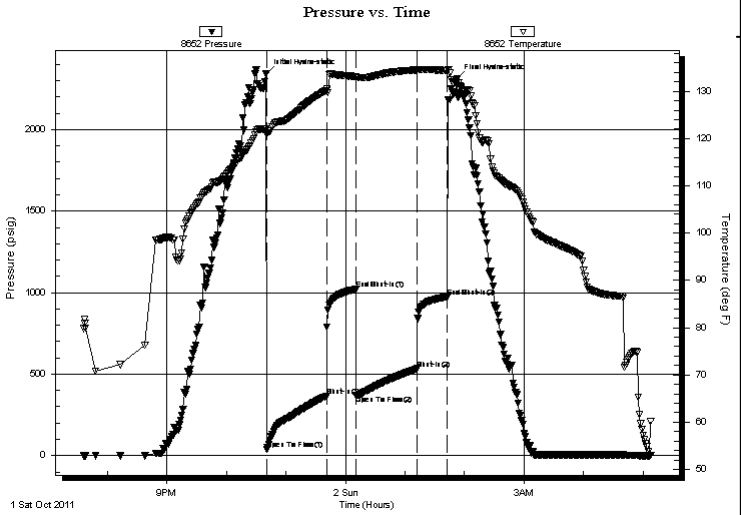
Reference Elevations: 3260.00 ft (KB)
3249.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8652 **Inside**

Press@RunDepth: 532.65 psig @ 4672.00 ft (KB)
Start Date: 2011.10.01 End Date: 2011.10.02
Start Time: 19:36:05 End Time: 05:08:15

Capacity: 8000.00 psig
Last Calib.: 2011.10.02
Time On Btm: 2011.10.01 @ 22:40:30
Time Off Btm: 2011.10.02 @ 01:52:15

TEST COMMENT: IF: BOB @ 9 minutes.
ISI: No return.
FF: BOB @ 13 minutes.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2341.46	122.12	Initial Hydro-static
1	38.54	120.77	Open To Flow (1)
61	366.22	130.19	Shut-In(1)
90	1019.66	133.09	End Shut-In(1)
91	369.75	132.90	Open To Flow (2)
152	532.65	134.51	Shut-In(2)
182	972.88	134.33	End Shut-In(2)
192	2311.22	131.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
740.00	mcw 5m 95w	7.64
445.00	ow cm 1o 9m 90w	6.24
5.00	oil 100o	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil, Inc

P.O. Box 8050
Edmond, Ok 73083

ATTN: Steve Angle

5 11s 34w Logan,KS

James D 1-5

Job Ticket: 44488 **DST#: 4**

Test Start: 2011.10.01 @ 19:36:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	54000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
740.00	mcw 5m 95w	7.638
445.00	ow cm 1o 9m 90w	6.242
5.00	oil 100o	0.070

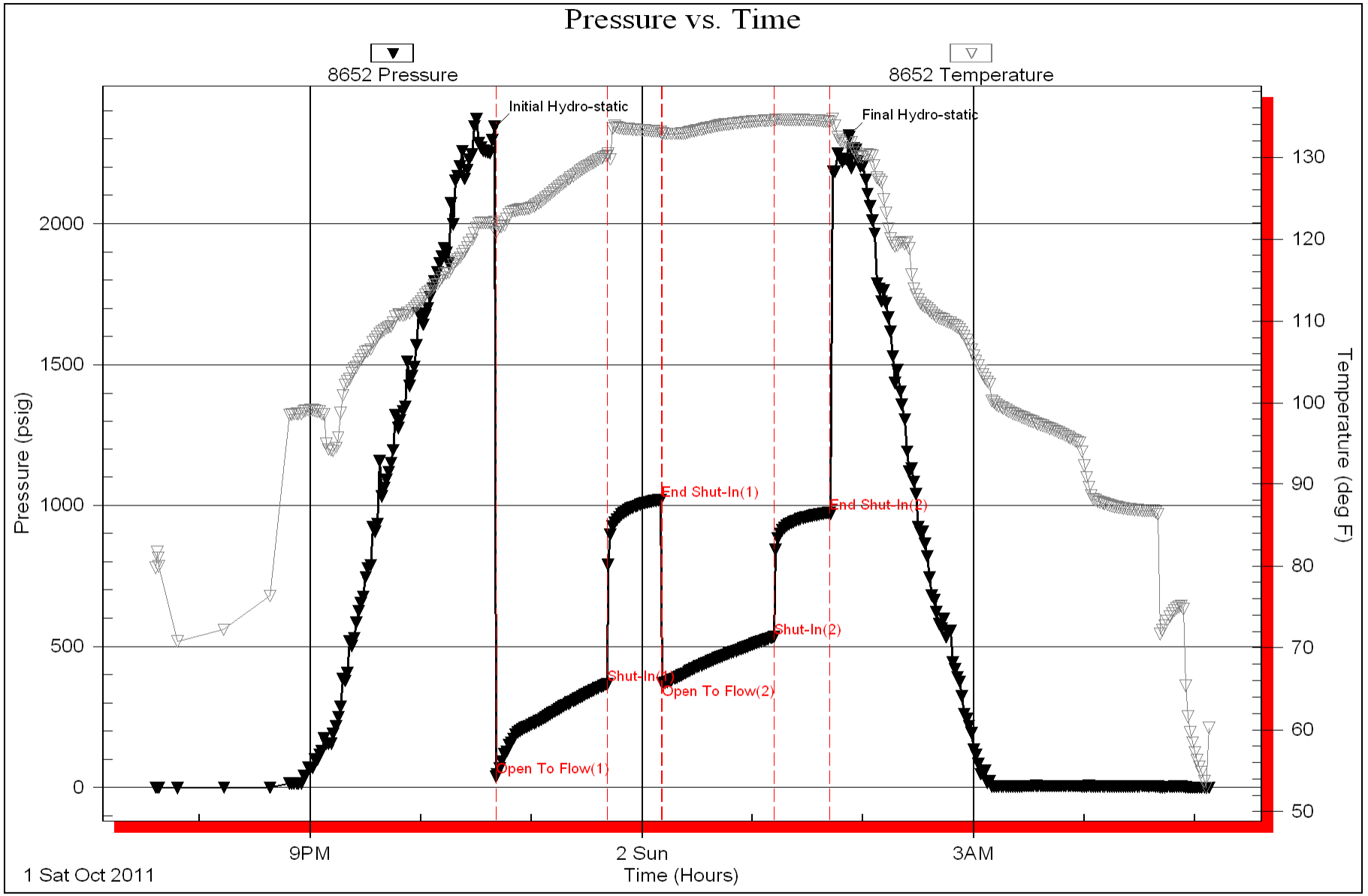
Total Length: 1190.00 ft Total Volume: 13.950 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: .170 @ 55f = 54000ppm

Serial #: 8652 **Inside** Russell Oil, Inc James D 1-5 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 44488 Printed: 2011.10.06 @ 20:45:28

CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

ENTERED

TICKET NUMBER 28237
LOCATION Oakley
FOREMAN Kelly Gabel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-23-11	7043	James D 1-5	5	11	34	Logan

CUSTOMER: Russel oil
MAILING ADDRESS:
CITY | STATE | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
389	Miles S		
460	Cory D		

JOB TYPE Surface-O HOLE SIZE 12 1/4 HOLE DEPTH 264 CASING SIZE & WEIGHT 8 5/8 24 #
CASING DEPTH ____ DRILL PIPE ____ TUBING ____ OTHER ____
SLURRY WEIGHT 14.8 SLURRY VOL ____ WATER gal/sk ____ CEMENT LEFT in CASING ____
DISPLACEMENT 15 1/2 DISPLACEMENT PSI ____ MIX PSI ____ RATE 5 1/2 bbl/min

REMARKS: Safety Meeting. Rigged up on 12 Drilling. Hooked up to circulate, Mix 200 sks Com 3%cc 2%gel. displaced with 15 1/2 bbl H20. Shut in, Washed up pumps and lines, Rigged down and left location.

Cement did circulate

Thank You
Kelly & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 S	1	PUMP CHARGE	1025.00	1025.00
5406	15	MILEAGE	5.00	75.00
1104 S	200 SKS	class A Cement	16.80	3360.00
1102	564 #	calcium chloride	.84	473.76
1118 B	376 #	Bentonite	.24	90.24
5407A	15	Ton Mileage delivery (Min.)	1.55	410.00
				5434.00
		Less 10% disc.		543.40
				4890.60
		24465	SALES TAX	275.46
Ravin 3737			ESTIMATED TOTAL	5166.06

7:30
AUTHORIZTION Steven Craig TITLE Toolpusher DATE 9-23-11

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 28267
LOCATION Oakley Ks
FOREMAN Walt Dinkel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-3-11	7043	James D 1-5	5	11S	34W	Thomas Ks

CUSTOMER: Russell Oil Co.
MAILING ADDRESS:
CITY | STATE | ZIP CODE:

Monument W to Hwy 25 N to C.L.

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Josh Gullde		
439	Cody Roats, Derek Glassman		

JOB TYPE PTA HOLE SIZE 7 7/8" HOLE DEPTH CASING SIZE & WEIGHT
CASING DEPTH DRILL PIPE TUBING OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety Meeting; Rig up on H2 #2, Plug as ordered

25-SKs @ 2400'
100-SKs @ 1650'
40-SKs @ 310
10-SKs @ 40'
30-SKs in R.H.
15-SKs in M.H.

220 SKs 60/40 poz, 4% Gel 1/4# Flo-Seal

Thank You
Walt + crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405 N	1	PUMP CHARGE	1,250.00	1,250.00
5406	15	MILEAGE	5.00	75.00
1131	220	60/40 poz.	14.35	3157.00
1118B	756#	Bentonite	.24	181.44
1107	55#	Flo-Seal	2.66	146.30
5407	9.46	Ton Mileage Delivery	1.58	410.00
				5,219.74
				521.97
				4,697.77
		244809	SALES TAX	244.63
			ESTIMATED TOTAL	4942.40

Ravin 3737

AUTHORIZTION Steven Craig TITLE Tool Pusher DATE 9-3-11

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

GEOLOGICAL REPORT

DRILLING TIME S.D. ANGLE - COPYRIGHT 2011 **SAMPLE LOG**

COMPANY Russell Oil, Inc.
LEASE James "D"
WELL NO. 1-5
LOCATION 1600' FSL + 1500' FEL
SEC 5 TWN 11S RNG 34W
COUNTY LOGAN STATE KANSAS
POOL WILDCAT
API NO. 15-109-21032-00-00

ELEVATIONS
KB 3260
DF —
GL 3249
MEASUREMENT FROM
Top Kelly Bushing
PIPE STRAP 4339'
.60 Long to
Board

CONTRACTOR H2 Drilling Rig #2
COMMENCED September 22, 2011
COMPLETED October 3, 2011
RTD October 2, 2011
MUD MUD-CO, Inc. Chemical
SAMPLES FROM 3800' TO 4900'
DRILLING TIME FROM 3800' TO 4900'
SUPERVISION FROM 3800' TO 4900'
GEOLOGIST STEVEN D. ANGLE

CASING RECORD
SURFACE

PRODUCTION NONE
Plugged &
Abandoned

REMARKS

All formation tops, zones of interest, porosity, shows and sample time lag are based from the top of Kelly Bushing measurements. Any corrections in measurements during the drilling of this well have been incorporated into this report.

ORIGINAL
COPY

Sincerely,

Steven D. Angle
W. G. C.

FORMATION TOPS

DATUM ELEVATION 3259 KB

FORMATION	SAMPLE	E LOG	DATUM	WELL A	WELL B
Anhydrite					
BASE-Anhydrite		2772'	+ 487		
Topeka		3911'	- 652		
Heebner		4131'	- 872		
Toronto		4154'	- 895		
LANSING-KC		4170'	- 911		
STARK Shale		4398'	- 1139		
BASE-Kansas City		4479'	- 1220		
MARMATON		4503'	- 1244		
PAWNEE		4588'	- 1329		
myric STATION		4623'	- 1364		
FT. Scott		4645'	- 1386		
Cherokee Shale		4676'	- 1417		
Atoka Lime		4752'	- 1493		
BASAL Penn SD		4778'	- 1519		
MISSISSIPPI		4858'	- 1599		
Rotary Total Depth		4900'	- 1641		
LOG TOTAL DEPTH		4905'	- 1646		

CORRELATION WELLS

A.
B.

DAILY PENETRATION

DEPTH	@ TIME	ON DATE
UNDER SURFACE	3:30 P.M.	9-23-11
1350'	7:00 A.M.	9-24-11
2570'	7:00 A.M.	9-25-11
3335'	7:00 A.M.	9-26-11
3925'	7:00 A.M.	9-27-11
4339'	7:00 A.M.	9-28-11
4396	7:00 A.M.	9-29-11
4430'	7:00 A.M.	9-30-11
4667'	7:00 A.M.	10-1-11
4748'	7:00 A.M.	10-2-11
4900'	10:33 P.M.	10-2-11

MUD RECORD

DEPTH	TYPE & AMOUNTS
2185'	25 sx Gel, 16 sx hulls.
3136'	25 sx Gel, 18 sx hulls
4259'	35 sx Gel, 4 sx Soda Ash, 2 sx caustic Soda, 1½ sx Lignite, 1 sx DrisPac, 10 sx hulls
3730'	35 sx Gel, 2 sx Soda Ash, 1 sx caustic Soda, 1 sx lignite.
4396'	30 sx Gel, 2 sx caustic Soda, 4 sx Soda Ash, 1½ sx hgnite, 1 sx DrisPac, 10 sx hulls
4590	35 sx Gel, 2 sx Soda Ash, 3 sx caustic Soda, 1½ sx lignite, 20 sx hulls.

DRILLING INFORMATION

DRILLING CONTR: H2 Drilling, LLC, Rig #2
RIG PHONE: 620-290-6399
TOOL PUSHER Steve Craig
PHONE: 620-770-2214
DRILLERS - DAYLIGHT TOUR: DJ (Daniel) Meredith
EVENING TOUR: Michael Moore
MORNING TOUR: Terry Christenson
SPUD DATE _____ DATE OF RTD: October 2, 2011
SITE DIRECTIONS: 1 mi W of monument, 2½ N to City line W 3 mi to 300 Rd S ½ mile, West into location.
SURFACE PIPE: _____

WELL STATUS: Plugged & Abandoned
PRODUCTION CASING: NONE

DRILLING MUD CONTR: MUD-Co, Engineer: Tyler LANG Ph. 785-731-5763
DRILL STEM TESTING: Trilobite Testing - 4 DST's, Tester: Bradley (WALT) WALTER-785-623-1407
CEMENTING: _____

ELECTRIC LOGGING: LOG-TECH, RAN Microresistivity, Dual Compensated Porosity, Dual Induction, Borehole Compensated Sonic Log. Engineer: D. Kerr.

BIT RECORD

NO.	PURPOSE	SIZE	MAKE	TYPE	IN	OUT	JETS	PUMP
1	Surface	12¼	Varel	ERIGSMR5	0	264'		400#
1	Bore	7⅞	Varel	HE21	264'	4900'		850#

DST NO. 1 INTERVAL 4310' TO 4339' TYPE Anchor 29' TIMES 60-30-60-30
Blow: Bottom of bucket in 34 minutes. ST. No return. Final SI to 9" blow. ST No return.
Rec: 480' mud cut water (10% mud) w/oil Spotting Tool. Chlorides 32,000 ppm.
IF/FF 24-127 SIF/SFF 181-261 ISI/FSI 1152-1092 IH/FH 2264-2122 Temp: 127°F

DST NO. 2 INTERVAL 4345' TO 4396' TYPE Anchor 51' TIMES 15-30-15-30
Blow: Surface blow, died in 9 minutes. ST. No return. No blow - Flushed Tool - No help. ST - No return.
Rec: 20' MUD.
IF/FF 23-23 SIF/SFF 25-29 ISI/FSI 1268-1249 IH/FH 2166-2137 Temp: 117°F

DST NO. 3 INTERVAL 4396' TO 4430' TYPE Anchor 34' TIMES 60-30-60-30
Blow: Bottom of bucket at 26 minutes. ST - No return. Final B.O.B at 50 minutes. ST - No return.
Rec: 640' mud cut water (10% mud). Chlorides 50,000 ppm.
IF/FF 25-214 SIF/SFF 220-320 ISI/FSI 1289-1282 IH/FH 2222-2187 Temp: 128°F

DST NO. 4 INTERVAL 4611 TO 7170 TYPE Anchor 11 TIMES 60-30-60-30

Blow : Bottom of bucket in 9 minutes. SI - No return. 2nd - Bottom of bucket in 13 minutes. SI - No return.

Rec: 5' Free oil, 445' oily MUD CUT WATER (1% oil - 5% mud - 95% water), 740' MUD CUT WATER (5% mud - 95% water). Chlorides 54,000 ppm.

IF/FF 39 - 366 SIF/SFF 370 - 533 ISI/FSI 1020 - 973 IH/FH 2341 - 2311 Temp: 128°F

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

DST NO. _____ INTERVAL _____ TO _____ TYPE _____ TIMES ____-____-____-____

Blow : _____

Rec: _____

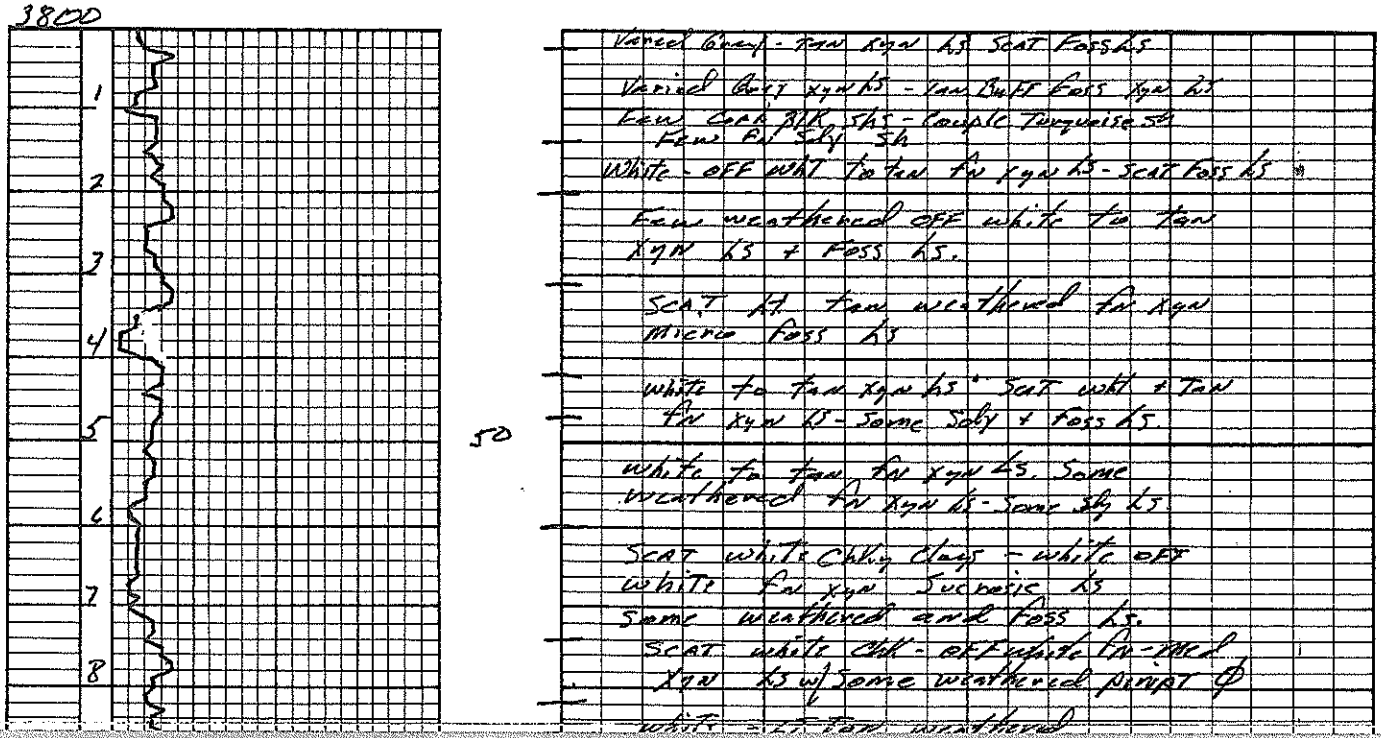
IF/FF _____-_____ SIF/SFF _____-_____ ISI/FSI _____-_____ IH/FH _____-_____ Temp: _____

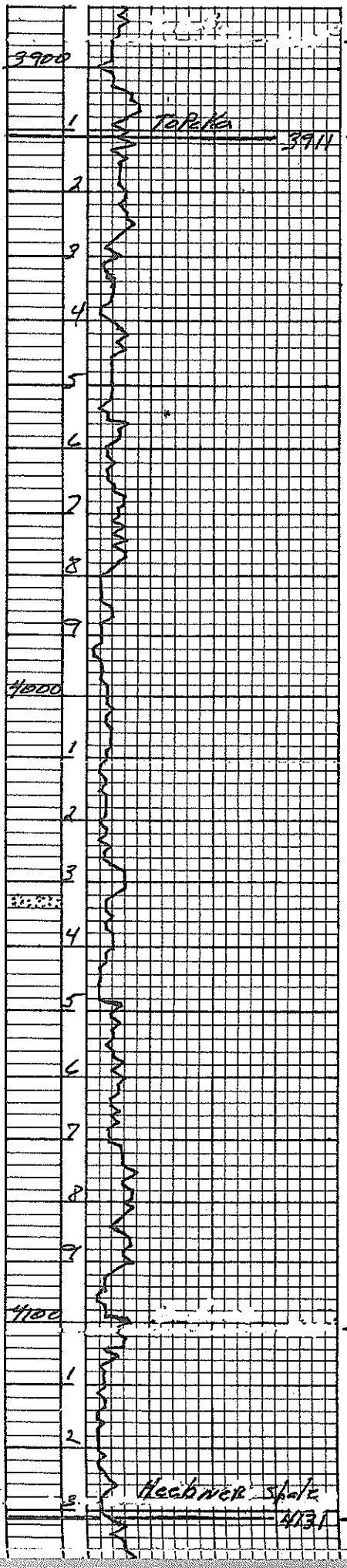
LEGEND

Anhydrite | Salt | Sandstone | Shale | Carb Sh | Limestone | Ool. Lime | Chert | Dolomite

X = Show or odor

LOG TOPS MARKED





LT Tan To Lt Gray weathered Xtln Ls To Fn Xtln dense Ls

LT Tan Xtln Fossilif Md Ls + Scat weathered Friable loose Ls.

Varied wht + Varied Tan Xtln + dense Foss Ls.

Varied Tan Fn Xtln + Xtln Ls. + Xtln Foss Ls.

Varied wht Varicol Tan + V Fn Sl. weathered Ls

LT. Tan vcatthered Ls + Scat Sl. vuggy Ls.

LT Tan Scat weathered Sdy Ls Scat Sl. vuggyness

LT. Tan Foss - Sl. weathered Scat V Sl. Vuggy Ls.

LT Tan Firm To Md gnicyo Sl. Foss + Foss Sl. weathered Ls

Scat white Soft Chk - LT Tan Fn Xtln + Fn Xtln Foss Ls.

Wht Soft Chk + Few Blk Shs

White Soft Chk - LT Tan Fn Xtln Sl. weathered Ls. Few wht Sd Clusters Same Fn loose Chk Sd grns

Scat Soft To Firm wht Chk LT Tan Fn Xtln Sl. Sdy - Sl weathered Ls

Scat Blk Shs + Varicol Tan Xtln Ls + Xtln Foss Ls.

Number pieces coal Blk Sh - LT Xtln Xtln - dense Ls w/s Blk dead oil Scat Chk rcled grn Sd Clusters Fairly dense

Varied Tan Foss + Xtln Ls Few Scat pieces LT Grey Sdy - Fairly Tite.

Varicol Tan - Varied Xtln Ls. Scat Buff Congl Foss Sdy Ls.

Buff - Tan dense Ls Scat Sl. weathered Ls

Varied wht Xtln dense Ls. Few Sdy Ls Few Grey Firm Sd clusters.

LT Grey to OFF white Xtln Ls. Few OFF wht Foss Ls.

Same as above with Few wht Foss Ls.

Varied LT. Tan Xtln Ls - Few Foss Ls.

Buff - LT Tan Sl. weathered Xtln dense - Some Foss Ls. Few Grey Fn Sd Clusters

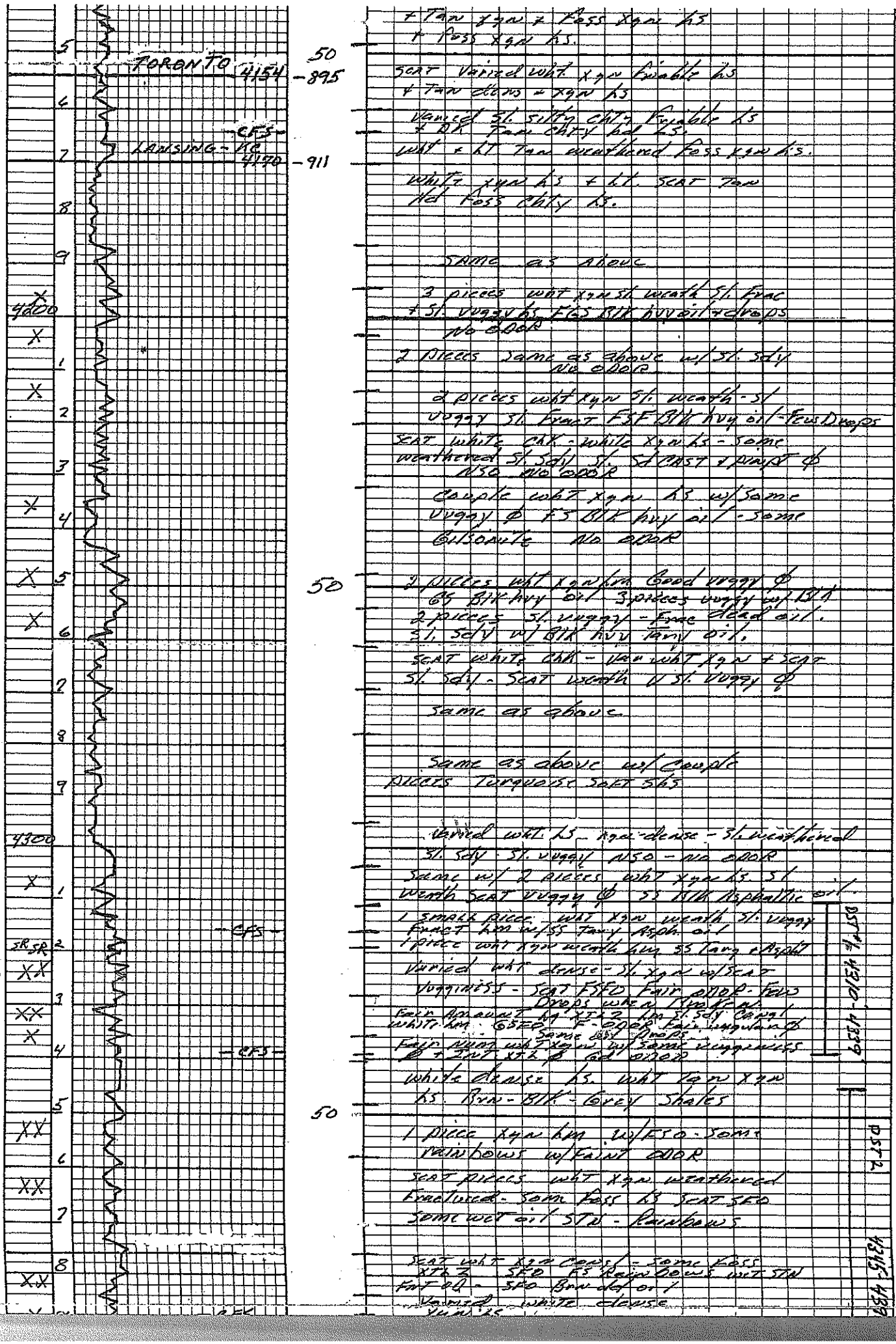
Fair number coal Blk Shs

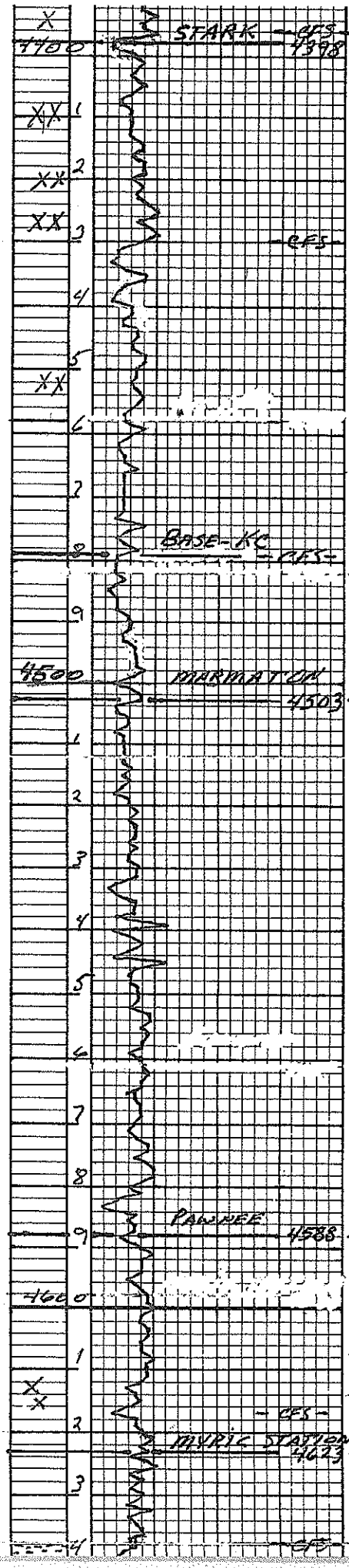
Varied Tans Xtln Foss Ls.

Several pieces coal Blk Shs

Vari Tan Xtln dense + Some Tan Foss Ls.

Several pieces coal Blk Shs


TORONTO 4154 -895
-CFS-
LANSING-IND 4170 -911
4200
4300
-CFS-
-CFS-
50
50
50
+ Tan Xln + Foss Xln hs
+ Foss Xln hs.
Scat Varied wht Xln Friable hs
+ Tan clams = Xln hs
Veined Sl. silty Chty Friable hs
+ DK Tan chty bed hs.
wht + lt Tan weathered Foss Xln hs.
White Xln hs + lt. Scat Tan
Hd Foss Chty hs.
Same as above
3 pieces wht Xln Sl. weath Sl. Frac
+ Sl. Vuggy hs Foss Blk hvy oil stains
No odor
2 Pieces Same as above w/ Sl. Sdy
No odor
2 pieces wht Xln Sl. weath - Sl
Vuggy Sl. Fract Fsf Blk hvy oil - few Drops
Scat White Chk - white Xln hs - some
weathered Sl. Sdy Sl. Sl Calc + pkgst ø
Also No odor
Couple wht Xln hs w/ same
Vuggy ø Fs Blk hvy oil - some
Bitumite No odor
2 pieces wht Xln hm Good Vuggy ø
as Blk hvy oil 3 pieces vuggy w/ Blk
2 pieces Sl. vuggy - Frac Stain oil.
Sl. Sdy w/ Blk hvy Tarry oil.
Scat white chk - Varied wht Xln + Scat
Sl. Sdy - Scat weath & Sl. Vuggy ø
Same as above
Same as above w/ Couple
pieces Turquoise Salt Sks
Varied wht hs - Xln - dense - Sl. weathered
Sl. Sdy - Sl. vuggy Also - no odor
Same w/ 2 pieces wht Xln hs Sl
Weath Scat Vuggy ø ss Blk Asphaltic oil
1 small piece wht Xln weath Sl. Vuggy
Fract hm w/ Ss Tarry Asph. oil
1 piece wht Xln weath Lam Ss Carb Shale
Varied wht dense - Sl. Xln w/ Scat
Vuggy hs - Scat FSO Fair odor - few
Drops wht a Blk Asphalt
Fair Amount of XTL hm Sl. Sdy Congl
White hm - Scat FSO Fair odor - few Drops
Fair Amount wht Xln w/ some Vuggyness
ø + Scat XTL ø Fair odor
White dense hs. wht to w Xln
hs. Brn - Blk - Grey Shales
1 Piece Xln hm w/ FSO - Some
Rainbows w/ Faint odor
Scat Pieces wht Xln weathered
Fractured - Some Foss hs Scat FSO
Some wet oil Stn - Rainbows
Scat wht Xln Cong/ - Some Foss
XTL Scat FSO hs Rainbows wet Stn
Fair ø - Scat Brn dep oil
Varied white dense
Yuns hs
DST #2 4345-4384
DST #3 4379-4439



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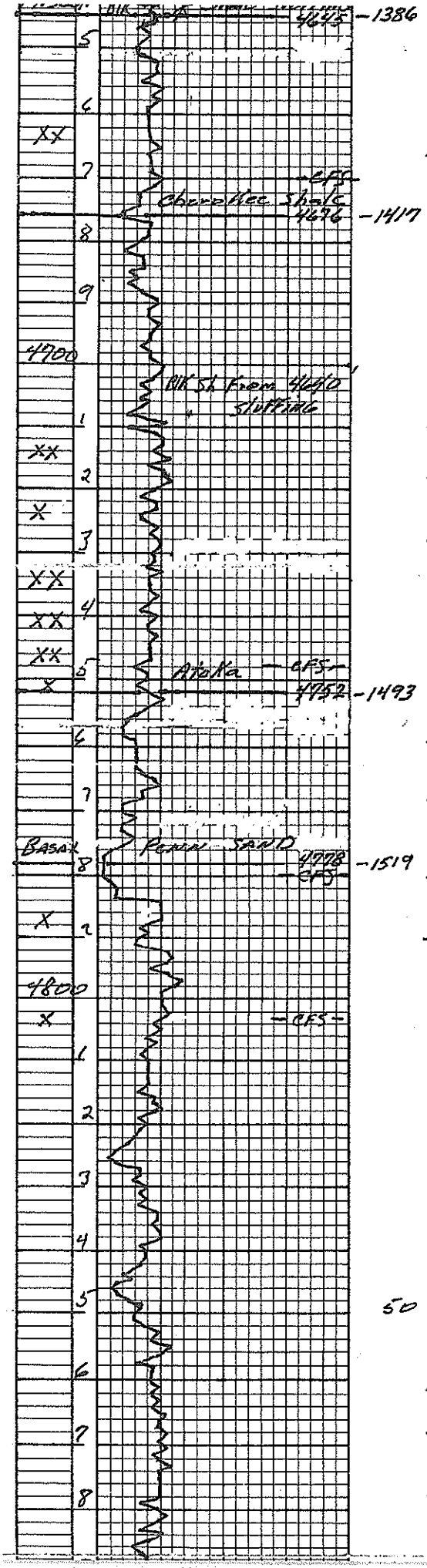
OSTE 4496'-4450'



BIK Sh from 4680 stuffing

Batt-Tan dense Ls - some Brn Calc Ls

Same as Above w/ Grey Fn Cals

1 piece Buff weathered Lm w/ Gel vuguar Por + pinpt Por
Vertical Ls - Brn Calc Ls - hot Stn
Fossils - Scat Grey Cals

White - Tan Ls - Cream Very hd dense Cont/ Limey Cht
Scat Tan Xln Foss Ls.

Few Scat Tan Cont. Calc Ls
+ Brn Foss weathered limes

Varied wht - Tan dense Xln
Weath Ls - Blk - Gray Brn Shs

Tan - Brn Varied Ls

1 piece buff silty Lm w/ SFO Couple Brn oil Stains Gel odor Few dkgy chert shards
Scat Brn Yellow weath Foss
Hd Calc Sdy Cont. Ls Fr Inter Xln Φ
650 - FSFO No odor

Scat pieces Grey weath hd vuggy Ta vuguar Lm 650 - FSFO Fnt odor

2 pieces - weath Grey dense vuggy Ls w/ 650 - FSFO Few Lt Brn Xln hard Lm
3 vuguar 650 - FSFO V Fnt odor
2 pieces weath Grey hd dense vuggy Lm w/ FSFO V Fnt odor
Same as Above w/ 1 piece Xln Ls w/ 50 No odor

Multi Col Shs - Soft wht Clay - Few Brn Sd Clusts
Multi - Col Shs - Few Lt wht Sdy - V Fn Grn Sd Clusters
Some loose V Fn Grn C/R Sds

Multi - Col Shs - Turquoise Shs - Few pale Grey Chts - Scat Off wht + Lt Brn Sd Clust Few Pale Green Glauc Sd Clusters
Scat wht Sd Clust
Several Tan Chty Xln Ls w/ Blk Gd oil. 1 piece Xln Lm w/ Vuguar FSFO - Droplets
Scat wht Fragm Sd Clust.
1 wht Sd Clust w/ FS Asphaltic oil

Scat Green - Yellow Shs - Van C/R Sd Few wht Chty w/ 50 dk Silty Stn Clusters
Wht Sdy Shs - wht Sd Clusters
Wht Limey Sd - Soft Lm Tan Chty Ls Scat Grey Sd Clusters
Same as above - Couple Foss Tan Ls + Lt Grey Chts

Varied wht + Tan Xln Chty Sdy Ls
Scat wht Hd Foss Ls - Few wht Limy Sd Clusters
Vari Tan dense Scat Xln Ls
Few Conchoid Sd Clusters

50

Tan dense to Fn Xln Ls. Few Lt Tan Chts - Scat Varied white to Tan Fn Grn Sd Clusters

Tan dense - Xln Sdy Ls.

White to Lt Tan weathered Xln Ls
Scat Sdy Ls. Couple Lt milky Chts.
Few Tan Grey chts - white Xln Ls - Tan hd Foss Ls - white weathered Foss Ls.

Tan dense chty Ls - white Xln Ls

4645 - 4696 = 51'

#900 — ges —

1

2

3

Trace dolly bs. - white xyn bs.
Few milky dolls - Few white limy fd clusters
RTD #900 @ 10:38 P.M on 10-2-14