



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1236286
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
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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: _____

1236286

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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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. <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 819

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-16-14	32	12	15	Russell	KANSAS		1:30 AM

Location Graham KS. 1E 6N 1/2W 1/2S INTO

Lease GUDENKAUF Well No. 1 Owner:

Contractor Royal Dalg Rig # 2 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Long Surface Charge To M-G Oil Inc.

Hole Size 12 1/4 T.D. 468 Street

Csg. 8 5/8 New Depth 468 City State

Tbg. Size 23 # csg Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Amount Ordered 2105x Comm.

Cement Left in Csg. 20' Shoe Joint 390cc 290 Gel

Meas Line Displace 28 1/2 BBL

EQUIPMENT

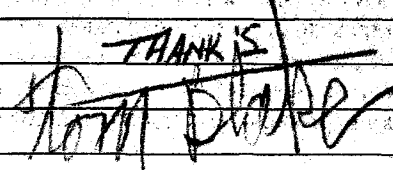
No.	Cementer	Helper	Driver	Driver	Driver	Common
<u>17</u>	<u>Glenn G.</u>	<u>Lennie W.</u>	<u>Ryan D.</u>			
<u>14</u>						

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

FLOAT EQUIPMENT

<u>Cement Circulated to Surface</u>	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<u>Wood Cup Plug x1</u>
	Pumptrk Charge
	Mileage

THANKS

 Signature

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 788

Date	11-9-14	Sec.	30	Twp.	12	Range	15	County	Russell	State	KS	On Location	9:00 AM	Finish	
Lease								Location				Spartan 1E 6 N 1/2 Sec 30 T12 R15			
Well No.								H1				Owner			
Contractor								EXPOSS				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job								port collar				Charge To			
Hole Size								T.D.				Street			
Csg.								Depth				City			
Tbg. Size								Depth				State			
Tool								Depth				The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.								Shoe Joint				Cement Amount Ordered			
Meas Line								Displace 9.7				Yg flow			
EQUIPMENT								Common							
Pumptrk 20 No. Cementer								Poz. Mix							
Bulktrk 14 No. Helper								Gel.							
Bulktrk 10 No. Driver								Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
PA or Port Collar 16920								Sand							
Treated tool 566 feet								Handling							
Impacted 2755 ft								Mileage							
displaced with water								FLOAT EQUIPMENT							
Shot tool tested to 500 PSI Washed clean								Guide Shoe							
Swathed 8 Bbl of cement								Centralizer							
Oiled tool								Baskets							
Made 25 ft to surface								AFU Inserts							
Shot tool								Float Shoe							
Check								Latch Down							
Total 360 lbs cement did								Pumptrk Charge							
Calculations								Mileage							
Signature								Tax							
								Discount							
								Total Charge							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 957

Date	10-23-14	Sec.	32	Twp.	12	Range	15	County	Russell	State	KS	On Location		Finish	2:00 PM
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Location Corham E 60 1/2 W S10

Lease	<u>Cooden Kart</u>	Well No.	<u>1</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<u>Royal #2</u>				
Type Job	<u>Production String</u>				
Hole Size	<u>7 7/8</u>	T.D.	<u>3400</u>	Charge To	<u>MG Oil</u>
Csg.	<u>5 1/2 15.50*</u>	Depth	<u>3391</u>	Street	
Tbg. Size		Depth		City	State
Tool	<u>Bit + Collar</u>	Depth	<u>1760</u>	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	<u>17</u>	Shoe Joint	<u>17</u>	Cement Amount Ordered <u>190 Lbs 10' Salt 5' Gypsumite</u>	
Meas Line		Displace	<u>80 1/4 BCL</u>	<u>500 gal mud clear</u>	

EQUIPMENT

Common

Pumptrk	<u>5</u>	No.	Cementer <u>Calig</u>	Helper		Poz. Mix
Bulktrk		No.	Driver <u>Brett</u>	Driver		Gel.
Bulktrk	<u>14</u>	No.	Driver <u>Doug</u>	Driver		Calcium

JOB SERVICES & REMARKS

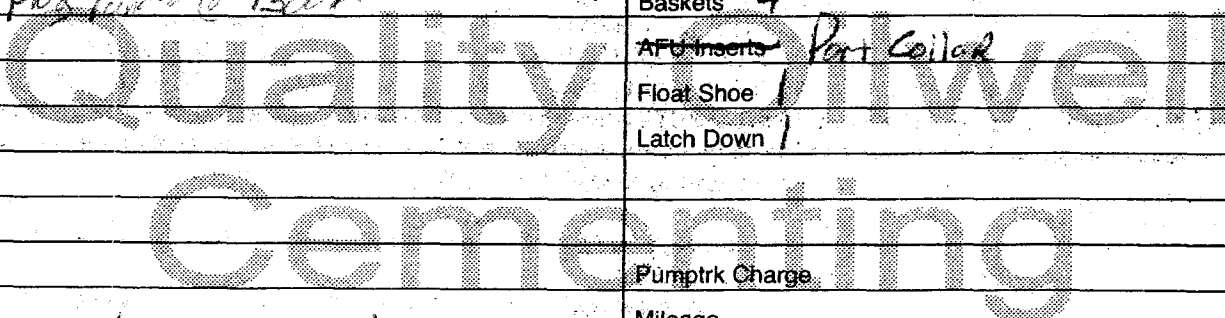
Hulls

Remarks:		Salt
Rat Hole	<u>30SK</u>	Flowseal
Mouse Hole	<u>15SK</u>	Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand

5 1/2 set @ 3391 Bottom @ 3374
Est. Cement on Pump 500 gal mud
Clear 100 gal sack. Phosphate
mouse hole. Cement 5 1/2 with 14SK
Displace Pkg.
Pkg. priced @ 1500#

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	<u>7 Turbols 2 Reg</u>
Baskets	<u>4</u>
AFU Inserts	<u>Port Collar</u>
Float Shoe	<u>1</u>
Latch Down	<u>1</u>



Pumptrk Charge	
Mileage	

X Signature Tom Blake

Tax	
Discount	
Total Charge	

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Gudenkauf #1
Formation	Lansing "A-D" 2986'-3070'
Surface Location	Sec 32-12s-15w-Russell Co.-KS
Company Name	MG Oil Inc
Test Type	
Gauge Name	Inside 5951
Start Test Date	2014/10/19
Start Test Time	14:44:00
Final Test Date	2014/10/19
Final Test Time	20:10:00
Job Number	F333
Contact	Curt Counts
Site Contact	Steve Reed

TEST RESULTS

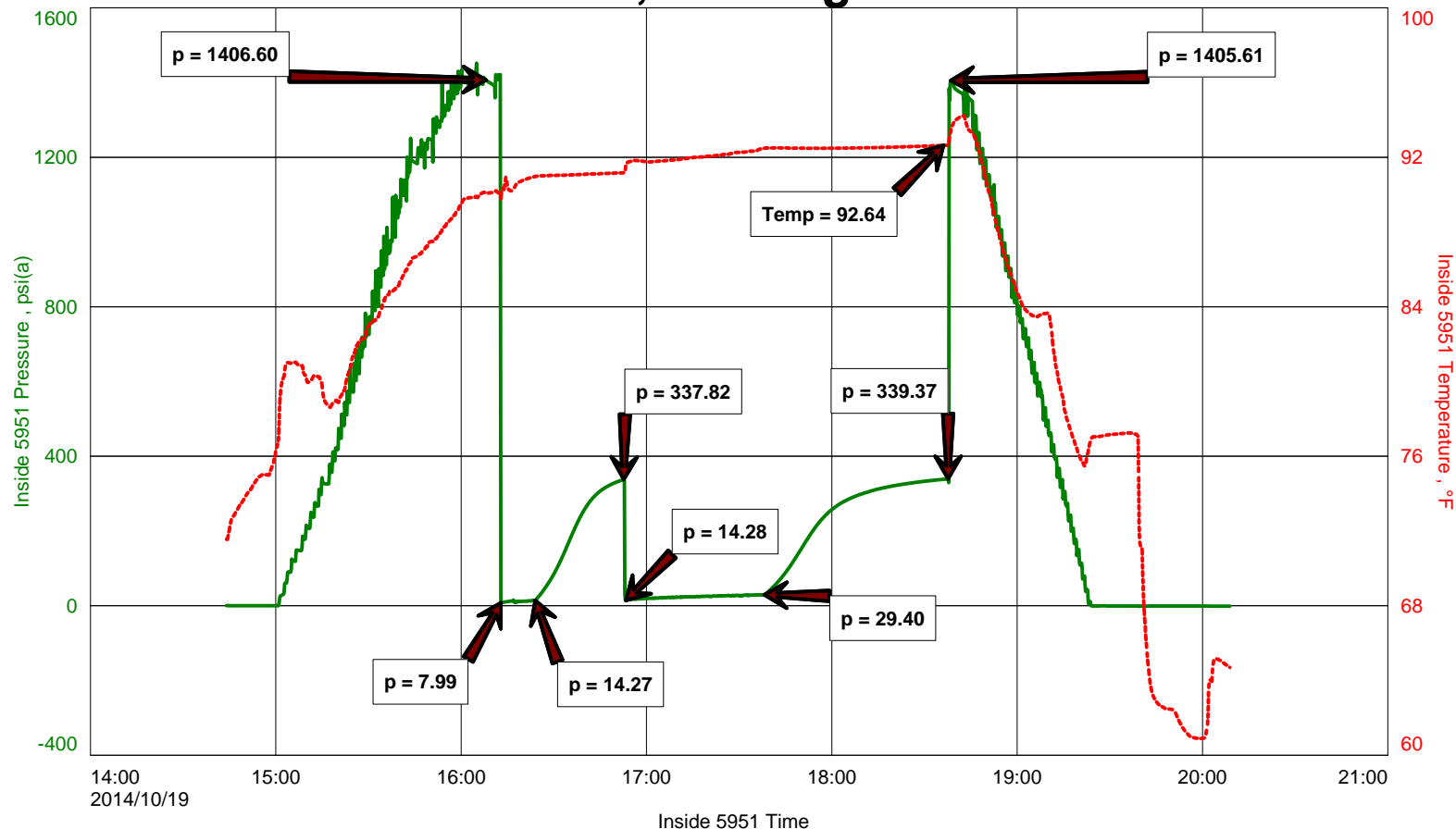
Initial flow, blow increased to 6", no blowback.
 Final flow, blow increased to BOB in 36 minutes, no blowback.

Recovered 45' of SOSM 1% oil 99% mud
 +/- 50' of Gas In Pipe
 Tool Sample: OSM 2% oil, 98% mud

MG Oil Inc
 Start Test Date: 2014/10/19
 Final Test Date: 2014/10/19

Gudenkauf #1
 Formation: Lansing "A-D" 2986'-3070'
 Job Number: F333

DST #1, Lansing "A-D"





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: GUDEDSTI

ON LOCATION:	<u>14:15</u>
START RECORDERS:	<u>14:44</u>
STOP RECORDERS:	<u>20:10</u>

Company MG OIL INC Lease & Well No. GUDENKAUF #1
 Contractor ROYAL DRILL RIG #2 Charge to MG OIL INC.
 Elevation 1841' KB Formation LANJING "A-D" Effective Pay _____ Ft. Ticket No. F333
 Date 10-19-14 Sec. 32 Twp. 12S Range 15W County RUSSELL State KANSAS
 Test Approved By STEVE REED Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 2986 ft to 3070 ft. Total Depth 3070 ft.
 Packer Depth 2981 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 2986 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2974 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3054 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEMICAL Viscosity 55 (1/2" LCM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.7 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 3500 P.P.M. Drill Pipe Length 2961 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 84 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO 6". NO BLOWBACK.
 2nd Open: BLOW INCREASED TO BOB IN 30 MINUTES. NO BLS

Recovered 45 ft. of SOSM 1" OIL, 99% MUD
 Recovered _____ ft. of 1/2-50' GAS IN PIPE
 Recovered _____ ft. of TOOL SAMPLE: OSM 2" OIL, 98% MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	<u>222 MRT (PRATKS)</u>
_____	Total

Time Set Packer(s) 4:15 ~~AM~~ P.M. Time Started Off Bottom 6:40 ~~AM~~ P.M. Maximum Temperature 93°F

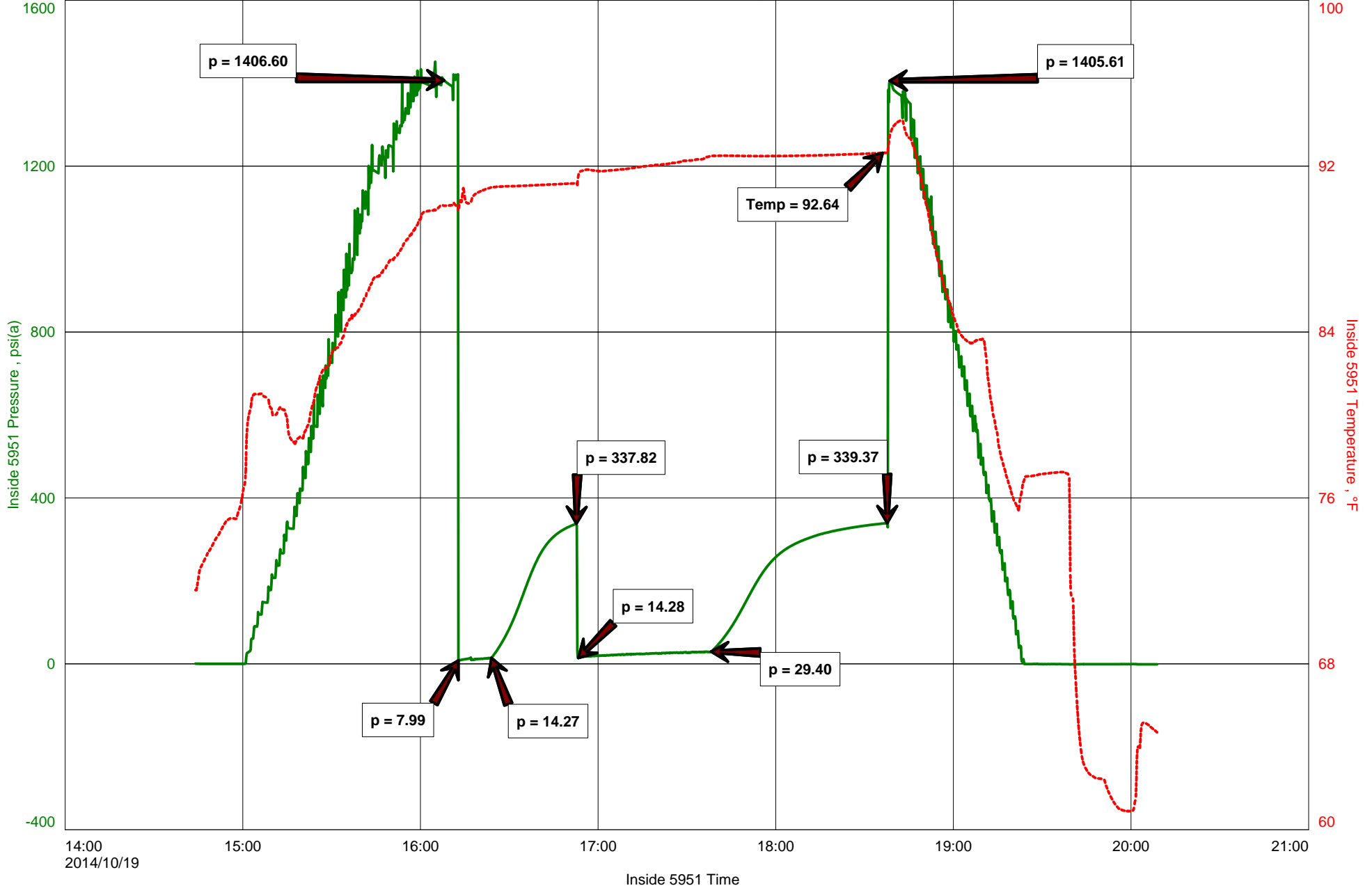
Initial Hydrostatic Pressure..... (A) 1407 P.S.I.
 Initial Flow Period..... Minutes 10 (B) 8 P.S.I. to (C) 14 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 338 P.S.I.
 Final Flow Period..... Minutes 45 (E) 14 P.S.I. to (F) 29 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 339 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 1406 P.S.I. Jake Fahrenbruch

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

MG Oil Inc
Start Test Date: 2014/10/19
Final Test Date: 2014/10/19

Gudenkauf #1
Formation: Lansing "A-D" 2986'-3070'
Job Number: F333

DST #1, Lansing "A-D"





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Gudenkauf #1
Formation	Arbuckle 3299'-3314' (3400' TD)
Surface Location	Sec 32-12s-15w-Russell Co.-KS
Company Name	MG Oil Inc
Test Type	Tailpipe Straddle
Gauge Name	Inside 5951
Start Test Date	2014/10/21
Start Test Time	04:14:00
Final Test Date	2014/10/21
Final Test Time	10:23:00
Job Number	F334
Contact	Curt Counts
Site Contact	Steve Reed

TEST RESULTS

Initial flow, blow increased to BOB in 20 minutes. No blowback.
 Final flow, Blow increased to BOB in 25 minutes. No blowback.

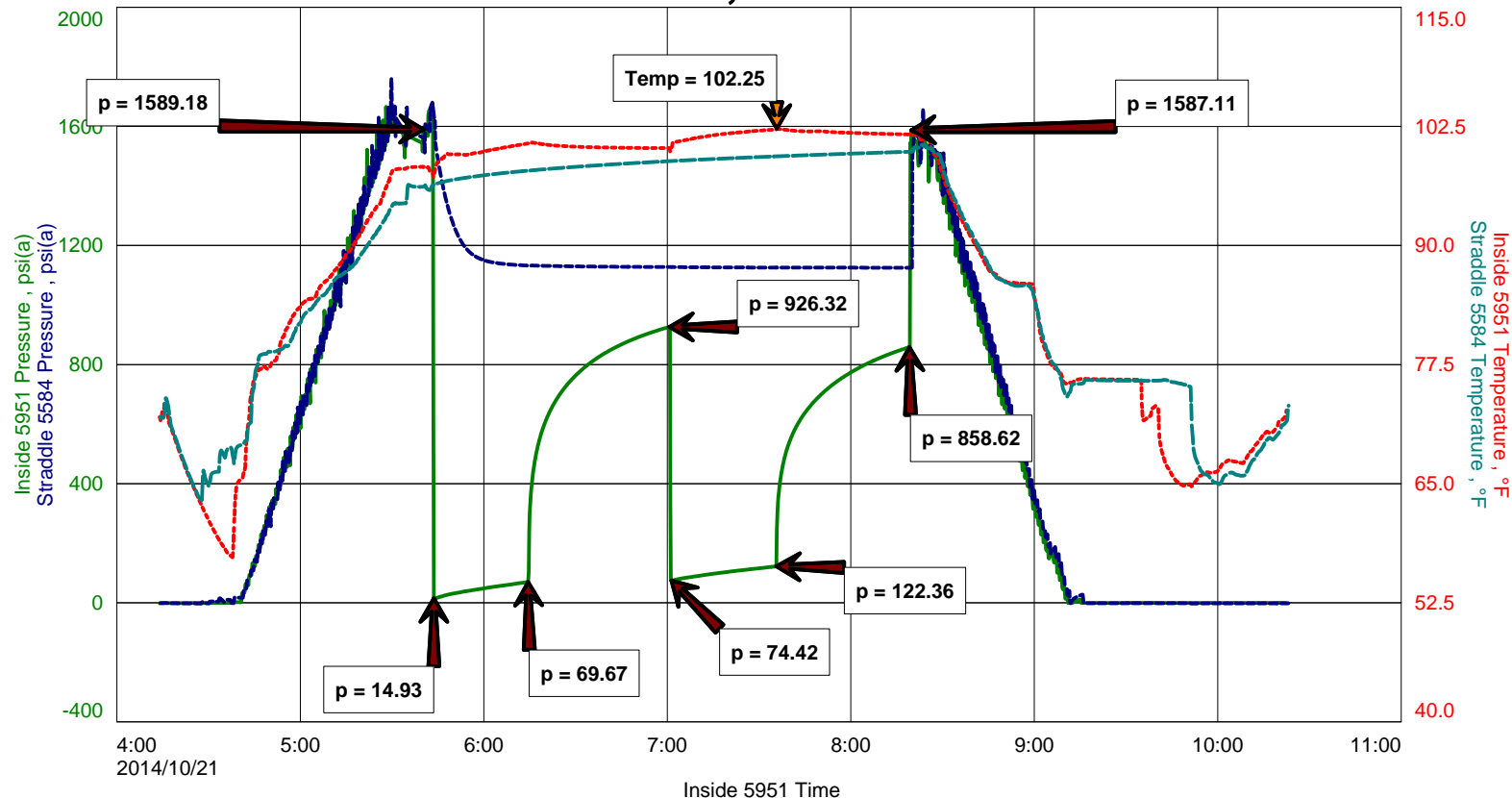
RECOVERED 260' TOTAL FLUID

30'	OIL	100% oil
35'	SWCOM	40% oil, 10% wtr, 50% mud
65'	OCWM	10% oil, 25% wtr, 65% mud
65'	OS SMCW	1% oil, 89% wtr, 10% mud
65'	OSW	1% oil, 99% wtr
GRAVITY: 21 @ 60F RW: .37 ohm @ 53F TOOL SAMPLE: OSW CHLORIDES: 18,000 PPM		

MG Oil Inc
 Start Test Date: 2014/10/21
 Final Test Date: 2014/10/21

Gudenkauf #1
 Formation: Arbuckle 3299'-3314' (3400' TD)
 Job Number: F334

DST #2, Arbuckle





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: GUDF1DST2

ON LOCATION:	<u>02:30</u>
START RECORDERS:	<u>09:14</u>
STOP RECORDERS:	<u>10:23</u>

Company MG OIL INC Lease & Well No. GUDENKAUF #1
 Contractor ROYAL DRILL RIG #2 Charge to MG OIL INC
 Elevation 1841' NB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F334
 Date 10-21-14 Sec. 32 Twp. 12S Range 15W County RUSSELL State KANSAS
 Test Approved By STEVE REED Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3299 ft. to 3314 ft. Total Depth 3400 ft.
 Packer Depth 3294 ft. Size 6 3/4 in. Packer depth 3314 ft. Size 6 3/4 in.
 Packer Depth 3299 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3285 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3317 ft. Recorder Number 113304 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth 3420 ft. Recorder Number 5584 Cap. 5000 P.S.I.

Mud Type CHEMICAL Viscosity 52 (1 1/2" LCM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.8 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 9000 P.P.M. Drill Pipe Length 3174 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 15 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" X 11 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO B.O.B. IN 20 MIN. NBB
 2nd Open: BLOW INCREASED TO B.O.B. IN 25 MIN. NBB

Recovered <u>30</u> ft. of <u>OIL</u>	<u>100% OIL</u>	
Recovered <u>35</u> ft. of <u>SWCOM</u>	<u>40% OIL, 10% WTR, 50% MUD</u>	
Recovered <u>65</u> ft. of <u>CCWM</u>	<u>10% OIL, 25% WTR, 65% MUD</u>	
Recovered <u>65</u> ft. of <u>OS SMCW</u>	<u>1% OIL, 89% WTR, 10% MUD</u>	
Recovered <u>65</u> ft. of <u>OSW</u>	<u>1% OIL, 99% WTR</u>	Price Job
Recovered _____ ft. of <u>TOTAL RECOVERED FLUID: 260'</u>		Other Charges

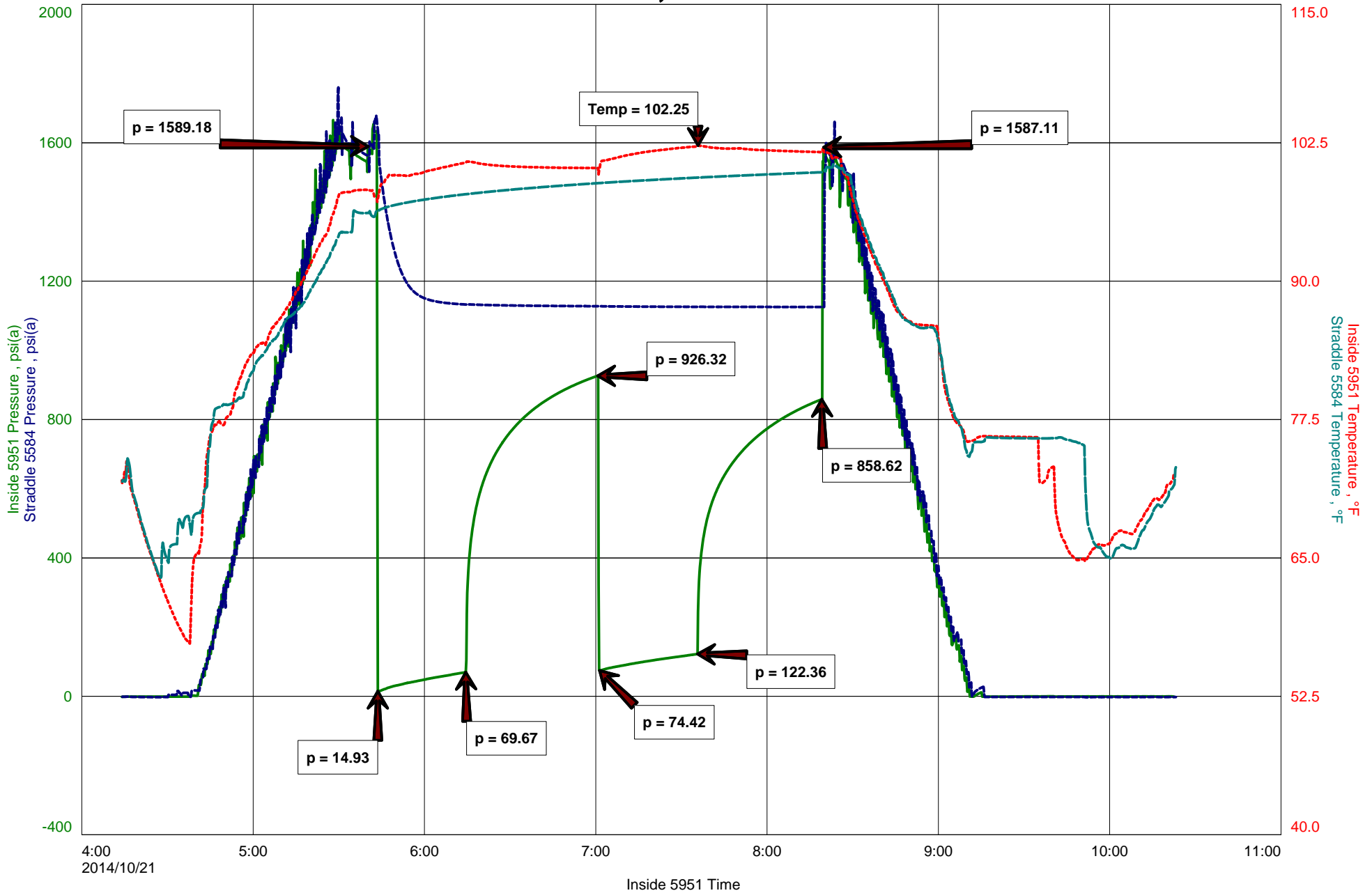
Remarks: GRAVITY: 21 @ 60F
RW: .37 SL @ 53F CHLORIDES: 18,000 PPM
TOOL SAMPLE: OSW
STRADDLE
222 MAT (PRAT)
 Total

Time Set Packer(s) 5:45 ^{AM} ~~PM~~ Time Started Off Bottom 8:15 ^{AM} ~~PM~~ Maximum Temperature 102F

Initial Hydrostatic Pressure.....	(A) <u>1589</u>	P.S.I.
Initial Flow Period..... Minutes	<u>30</u>	(B) <u>15</u> P.S.I. to (C) <u>70</u> P.S.I.
Initial Closed In Period..... Minutes	<u>45</u>	(D) <u>926</u> P.S.I.
Final Flow Period..... Minutes	<u>30</u>	(E) <u>74</u> P.S.I. to (F) <u>122</u> P.S.I.
Final Closed In Period..... Minutes	<u>45</u>	(G) <u>859</u> P.S.I. <u>Thanks!</u>
Final Hydrostatic Pressure.....	(H) <u>1587</u>	P.S.I. <u>Jake Fahrenbruch</u>

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DST #2, Arbuckle





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Gudenkauf #1
Formation	L,KC "I&J" 3152'-3199' (3400' TD)
Surface Location	Sec 32-12s-15w-Russell Co.-KS
Company Name	MG Oil Inc
Test Type	Tailpipe Straddle
Gauge Name	Inside 5951
Start Test Date	2014/10/21
Start Test Time	12:01:00
Final Test Date	2014/10/21
Final Test Time	18:22:00
Job Number	F335
Contact	Curt Counts
Site Contact	Steve Reed

TEST RESULTS

Initial flow, blow increased to BOB in 9 minutes. Surface blowback.
Final flow, blow increased to BOB in 3.75 minutes. Blowback @ .5".

TOTAL RECOVERED FLUID: 165'

GAS IN PIPE: 640'

15' Clean Oil

100% oil

110' HGCOM

25% gas, 30% oil, 45% mud

40' GCOSWM

10% gas, 2% oil, 43% wtr, 45% mud

TOOL SAMPLE: MCWO 50% oil, 35% wtr, 15% mud

GRAVITY: 40 @ 60F

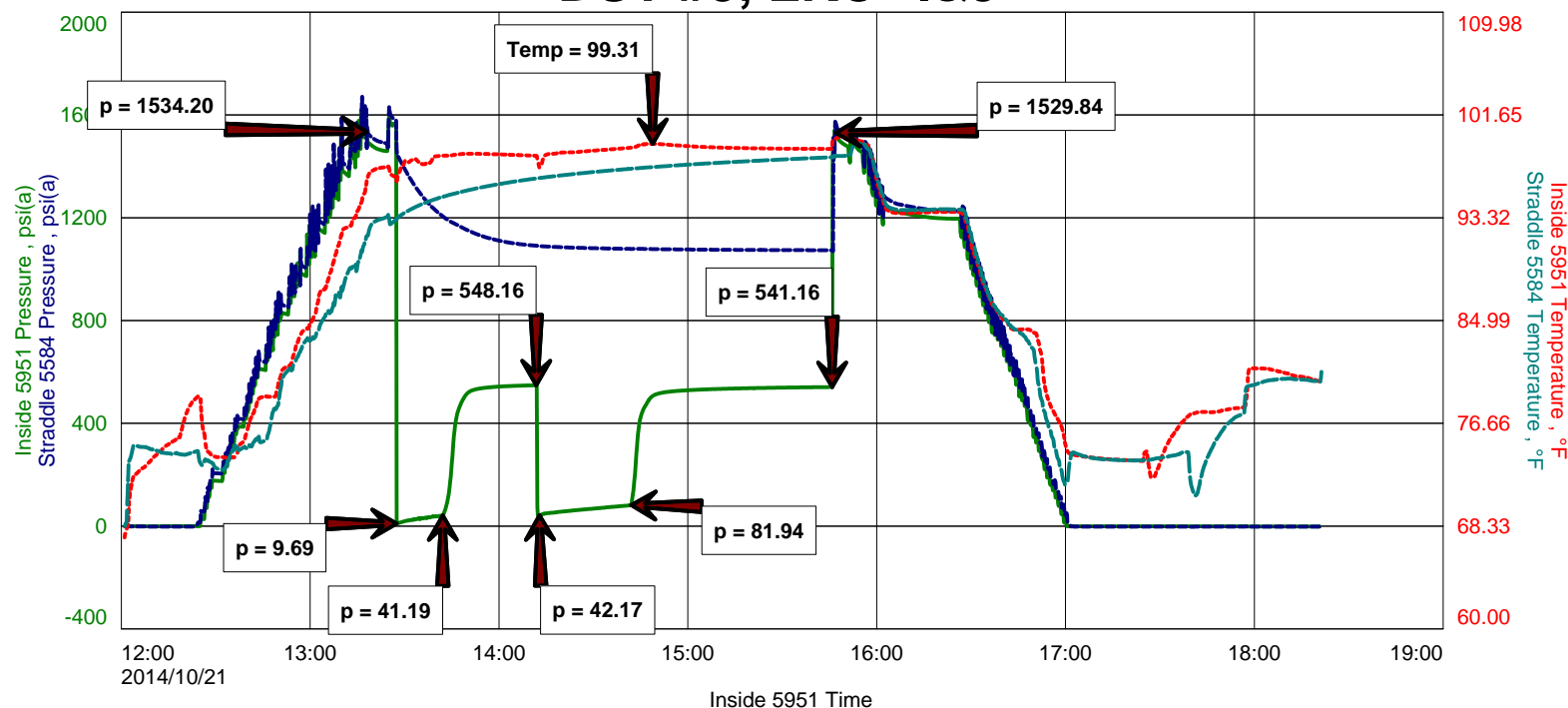
Chlorides: 23,000 PPM

RW: .17 ohm @ 81F

MG Oil Inc
Start Test Date: 2014/10/21
Final Test Date: 2014/10/21

Gudenkauf #1
Formation: L,KC "I&J" 3152'-3199' (3400' TD)
Job Number: F335

DST #3, LKC "I&J"





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: GUDENKAUF

ON LOCATION: _____
 START RECORDERS: 12:01
 STOP RECORDERS: 18:22

Company MG OIL INC Lease & Well No. GUDENKAUF #1
 Contractor ROYAL DRILL REG #2 Charge to MG OIL INC
 Elevation 1841' KB Formation L, KC "I&J" Effective Pay _____ Ft. Ticket No. F335
 Date 10-21-14 Sec. 32 Twp. 12S Range 15W County RUSSELL State KANSAS
 Test Approved By STEVE REED Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 3152 ft. to 3199 ft. Total Depth 3400 ft.
 Packer Depth 3147 ft. Size 6 3/4 in. Packer depth 3199 ft. Size 6 3/4 in.
 Packer Depth 3152 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3138 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3195 ft. Recorder Number 11034 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth 3204 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Mud Type CHEMICAL Viscosity 52 (1 1/2 "/u>

Weight 8.8 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 9000 P.P.M. Drill Pipe Length 3127 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number _____ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 47 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 9" PERF IN ANCHOR in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO BOB IN 9 MINUTES. SFC BB
 2nd Open: BLOW INCREASED TO BOB IN 3 3/4 MINUTES. 1/2" BB
 Recovered 15 ft. of CLEAN OIL 100" oil
 Recovered 110 ft. of HGCOM 25" gas, 30" oil, 45" mud
 Recovered 40 ft. of GCOSWM 10" gas, 2" oil, 43" wtr, 45" mud
 Recovered _____ ft. of 640' GAS IN PIPE

Recovered _____ ft. of <u>TOTAL RECOVERED FLUID: 165'</u>	Price Job
Recovered _____ ft. of <u>TOOL SAMPLE: MCWO 50%, 35% w, 15% m</u>	Other Charges
Remarks: <u>GRAVITY: 40 @ 60°F</u>	<u>STRADDLE</u>
<u>CHLORIDES: 23,000 PPM</u>	<u>34 ART (RUSSELL)</u>
<u>RW: .17 @ 81°F</u>	Total

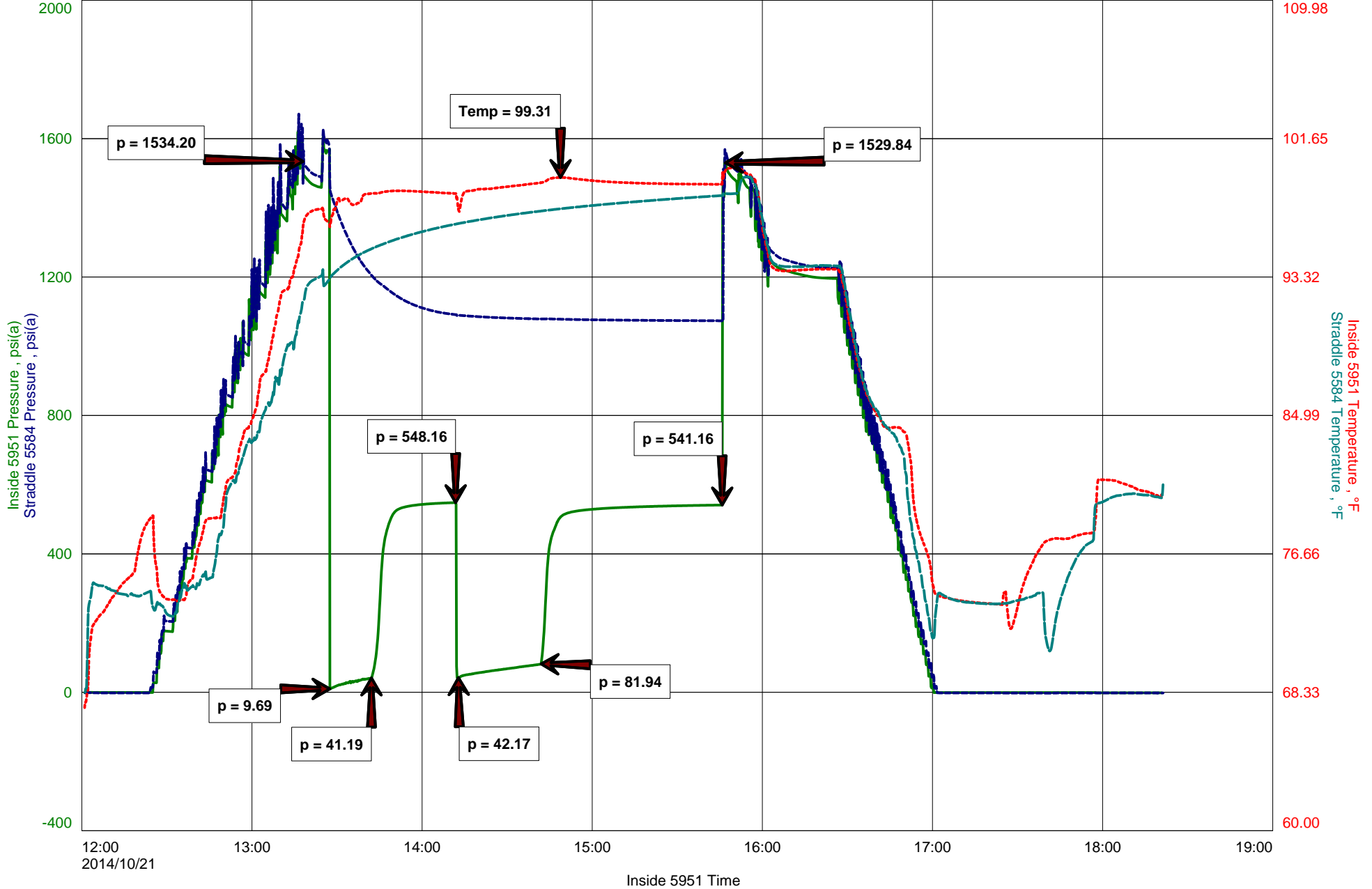
Time Set Packer(s) 1:28 AM P.M. Time Started Off Bottom 3:43 AM P.M. Maximum Temperature 99°F
 Initial Hydrostatic Pressure..... (A) 1534 P.S.I.
 Initial Flow Period..... Minutes 15 (B) 10 P.S.I. to (C) 41 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 548 P.S.I.
 Final Flow Period..... Minutes 30 (E) 42 P.S.I. to (F) 82 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 541 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 1530 P.S.I. Jake Fahrenbruch

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MG Oil Inc
Start Test Date: 2014/10/21
Final Test Date: 2014/10/21

Gudenauf #1
Formation: L,KC "I&J" 3152'-3199' (3400' TD)
Job Number: F335

DST #3, LKC "I&J"





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: _____

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Scale 1:240 Imperial

Well Name: GUDENKAUF #1
Surface Location: S2 SE SW NE S32 T12S R15W
Bottom Location:
API: 15-167-24010-00-00
License Number: 31385
Spud Date: 10/15/2014 Time: 1:00 PM
Region: RUSSELL COUNTY
Drilling Completed: 10/20/2014 Time: 7:07 PM
Surface Coordinates: 2540 FNL & 1650 FEL
Bottom Hole Coordinates:
Ground Elevation: 1834.00ft
K.B. Elevation: 1841.00ft
Logged Interval: 2700.00ft To: 3400.00ft
Total Depth: 3400.00ft
Formation: LANSING KANSAS CITY
Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

OPERATOR

Company: MG OIL, INC
Address: P.O. BOX 162
RUSSELL, KANSAS
67665-0162
Contact Geologist: CHAD AND CURT COUNTS
Contact Phone Nbr: 785-483-1627
Well Name: GUDENKAUF #1
Location: S2 SE SW NE S32 T12S R15W
API: 15-167-24010-00-00
Pool: State: KANSAS Field: FAIRPORT
Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.0076904
Latitude: 38.9657300
N/S Co-ord: 2540 FNL
E/W Co-ord: 1650 FEL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.
Address: 108 WEST 35TH
HAYS, KANSAS 67601
Phone Nbr: 785-650-4540 / 785-639-1337
Logged By: Geologist Name: STEVE REED

CONTRACTOR

Contractor: ROYAL DRILLING, INC
Rig #: 2
Rig Type: MUD ROTARY
Spud Date: 10/15/2014 Time: 1:00 PM
TD Date: 10/20/2014 Time: 7:07 PM
Rig Release: 10/22/2014 Time: 6:00 AM

ELEVATIONS

K.B. Elevation: 1841.00ft Ground Elevation: 1834.00ft
K.B. to Ground: 7.00ft

NOTES

BASED ON THE POSITIVE RESULTS OF DST 2 AND 3, ALONG WITH FAVORABLE STRUCTURAL POSITION AND LOG ANALYSIS, DECISION WAS MADE TO SET 5 1/2" PRODUCTION CASING TO FURTHER TEST PRODUCTIVITY OF WELL.

OPEN HOLE LOGGING PROVIDED BY: TUCKER ENERGY SERVICES
 PHASED INDUCTION SHALLOW FOCUS SP LOG, COMPENSATED NEUTRON PEL DENSITY LOG,
 AND MICRORESISTIVITY LOGS WERE PERFORMED

DRILLSTEM TESTING PROVIDED BY: DIAMOND TESTING
 ONE (1) CONVENTIONAL TEST AND TWO (2) STRADDLE TESTS WERE COMPLETED

FORMATION TOPS COMPARISON AND SUMMARY OF DAILY ACTIVITY

FORMATION TOPS COMPARISON

WELL NAME	DRILLING WELL				COMPARISON WELL				COMPARISON WELL				COMPARISON WELL			
	GUDENKAUF #1				MCCUNE B #1				MCCUNE 1				MCCUNE B 3			
API #	15-167-24010				15-167-00094				15-167-00304				15-167-04325			
	Sec. 32 T12S R15W				Sec. 32, T12S R15W				Sec. 32, T12S R15W				Sec. 32, T12S R15W			
	1841 KB				1862 KB				1845 KB				1828 KB			
					Structural Relationship				Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite Top	918	923	910	931	921	941	-18	-10	925	920	3	11	920	908	15	23
Topeka	2742	-901	2737	-896	2764	-902	1	6	NA	NA	NA	NA	2732	-904	3	8
Heebner	2961	-1120	2956	-1115	2984	-1122	2	7	2969	-1124	4	9	2951	-1123	3	8
LKC	3011	-1170	3006	-1165	3035	-1173	3	8	3018	-1173	3	8	3002	-1174	4	9
BKC	3253	-1412	3246	-1405	3280	-1418	6	13	NA	NA	NA	NA	3244	-1416	4	11
Conglomerate	3274	-1433	3269	-1428	3302	-1440	7	12	NA	NA	NA	NA	NA	NA	NA	NA
Arbuckle	3293	-1452	3288	-1447	NA	NA	NA	NA	3312	-1467	15	20	3271	-1443	-9	-4
Total Depth	3400	-1559	3395	-1554	3350	-1488	-71	-66	3360	-1515	-44	-39	3283	-1455	-104	-99

SUMMARY OF DAILY ACTIVITY

- 10-15-14** R.U., spud @ 1:00pm, 8 5/8" surface casing set at 460' w/210 sxs common, 2% gel, 3%cc, plug down @ 2:00am
- 10-16-14** 460', WOC, drill plug @ 11:15am
- 10-17-14** 1700', drilling
- 10-18-14** 2365', drilling
- 10-19-14** 3030', drilling, CFS @ 3050, CFS @ 3070, short trip, CTCH, TOWB for DST #1 2986-3070, survey 1/4°, to windy to strap, CFS @ 3104, CFS @ 3115, CFS @ 3200
- 10-20-14** 3201', drilling, CFS @ 3327, TD of 3400 reached @ 7:07pm, CFS, short trip (10 stands), CTCH, TOWB for logging, TIWT for DST #2 3299 to 3314 (Straddle Arbuckle)
- 10-21-14** 3400, TOWT from DST #2, Strap in to confirm depth, Strap 1.72' short to board, DST # 3 3152 to 3199 (Straddle KC "I & J"), prepare to set 5 1/2 inch production casing w/ 190 sxs common, 10% salt, 5% gilsonite, 500 gallon mud flush, plug down @ 2:00am
- 10-22-14** release rig

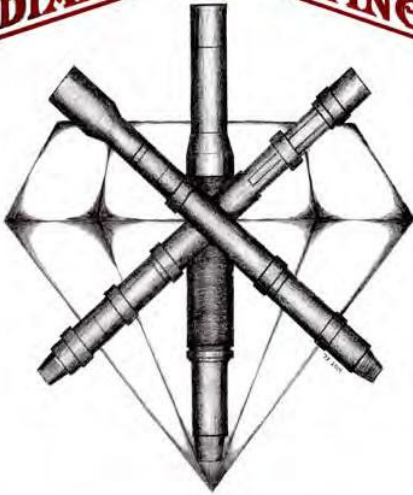
DST #1 SUMMARY

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313

DIAMOND TESTING



TEST INFORMATION

Well Name	Gudenkauf #1
Formation	Lansing "A-D" 2986'-3070'
Surface Location	Sec 32-12s-15w-Russell Co.-KS
Company Name	MG Oil Inc
Test Type	
Gauge Name	Inside 5951
Start Test Date	2014/10/19
Start Test Time	14:44:00
Final Test Date	2014/10/19
Final Test Time	20:10:00
Job Number	F333
Contact	Curt Counts
Site Contact	Steve Reed

TEST RESULTS

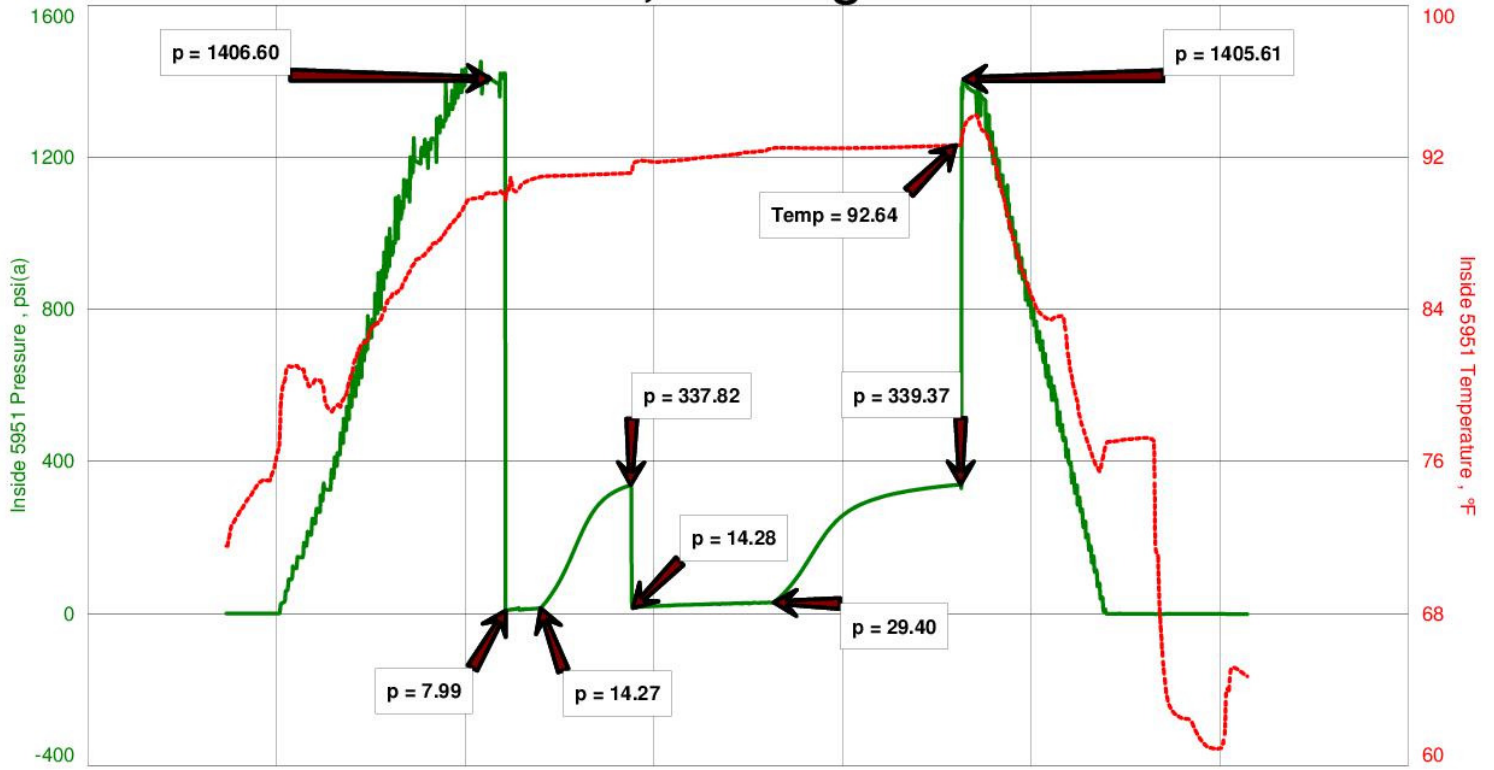
Initial flow, blow increased to 6", no blowback.
 Final flow, blow increased to BOB in 36 minutes, no blowback.

Recovered 45' of SOSM 1% oil 99% mud
 +/- 50' of Gas In Pipe
 Tool Sample: OSM 2% oil, 98% mud

MG Oil Inc
 Start Test Date: 2014/10/19
 Final Test Date: 2014/10/19

Gudenkauf #1
 Formation: Lansing "A-D" 2986'-3070'
 Job Number: F333

DST #1, Lansing "A-D"



DST #2 SUMMARY

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313

DIAMOND TESTING



TEST INFORMATION

Well Name	Gudenkauf #1
Formation	Arbuckle 3299'-3314' (3400' TD)
Surface Location	Sec 32-12s-15w-Russell Co.-KS
Company Name	MG Oil Inc
Test Type	Tailpipe Straddle
Gauge Name	Inside 5951
Start Test Date	2014/10/21
Start Test Time	04:14:00
Final Test Date	2014/10/21
Final Test Time	10:23:00
Job Number	F334
Contact	Curt Counts
Site Contact	Steve Reed

TEST RESULTS

Initial flow, blow increased to BOB in 20 minutes. No blowback.
Final flow, Blow increased to BOB in 25 minutes. No blowback.

RECOVERED 260' TOTAL FLUID

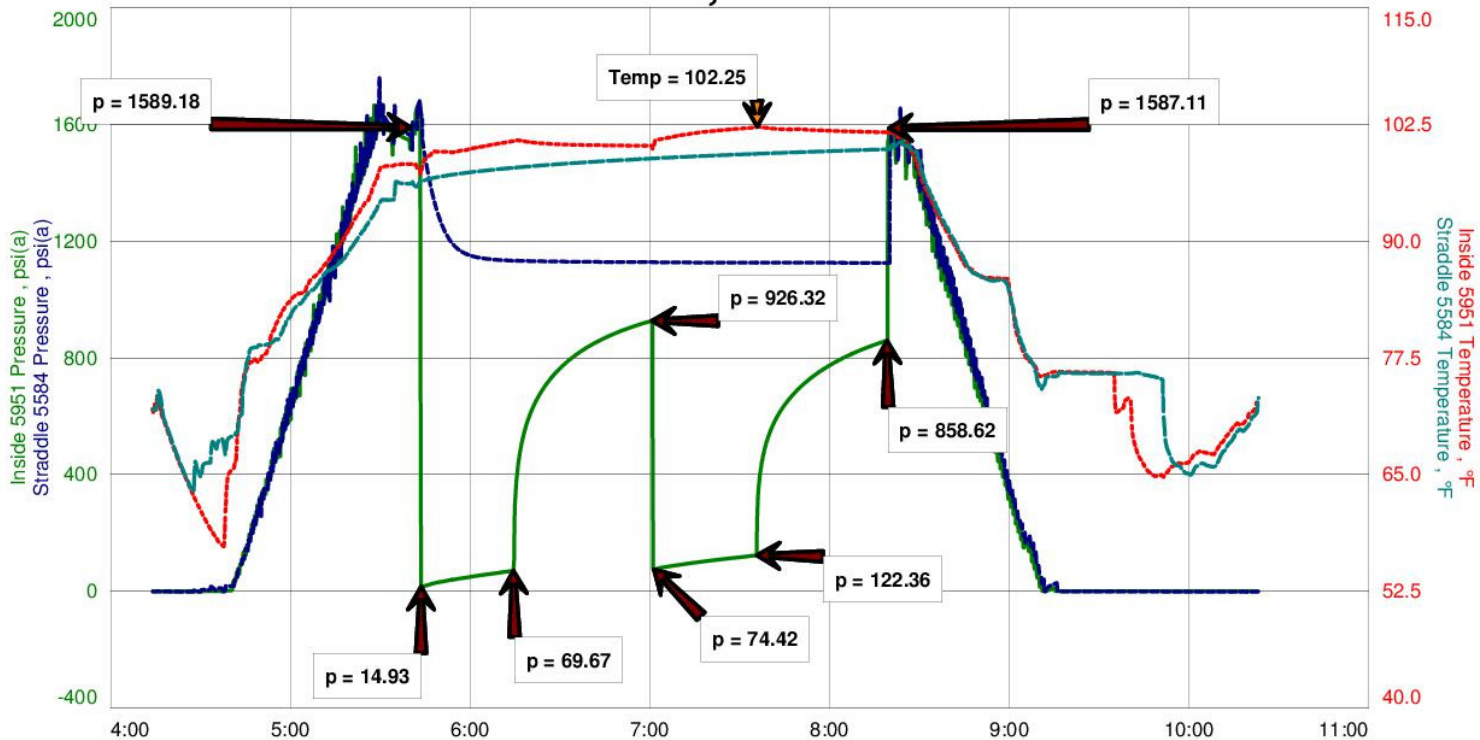
30'	OIL	100% oil
35'	SWCOM	40% oil, 10% wtr, 50% mud
65'	OCWM	10% oil, 25% wtr, 65% mud
65'	OS SMCW	1% oil, 89% wtr, 10% mud
65'	OSW	1% oil, 99% wtr

GRAVITY: 21 @ 60F RW: .37 ohm @ 53F TOOL SAMPLE: OSW CHLORIDES: 18,000 PPM

MG Oil Inc
Start Test Date: 2014/10/21
Final Test Date: 2014/10/21

Gudenkauf #1
Formation: Arbuckle 3299'-3314' (3400' TD)
Job Number: F334

DST #2, Arbuckle



DST #3 SUMMARY

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

Cell: (620) 282-8977 / Office: (800) 542-7313



TEST INFORMATION

Well Name	Gudenkauf #1
Formation	L,KC "I&J" 3152'-3199' (3400' TD)
Surface Location	Sec 32-12s-15w-Russell Co.-KS
Company Name	MG Oil Inc
Test Type	Tailpipe Straddle
Gauge Name	Inside 5951
Start Test Date	2014/10/21
Start Test Time	12:01:00
Final Test Date	2014/10/21
Final Test Time	18:22:00
Job Number	F335
Contact	Curt Counts
Site Contact	Steve Reed

TEST RESULTS

Initial flow, blow increased to BOB in 9 minutes. Surface blowback.
Final flow, blow increased to BOB in 3.75 minutes. Blowback @ .5".

TOTAL RECOVERED FLUID: 165'

GAS IN PIPE: 640'

15'	Clean Oil	100% oil
110'	HGCOM	25% gas, 30% oil, 45% mud
40'	GCOSWM	10% gas, 2% oil, 43% wtr, 45% mud
TOOL SAMPLE: MCWO		50% oil, 35% wtr, 15% mud
GRAVITY: 40 @ 60F		Chlorides: 23,000 PPM RW: .17 ohm @ 81F

MG Oil Inc
Start Test Date: 2014/10/21
Final Test Date: 2014/10/21

Gudenkauf #1
Formation: L,KC "I&J" 3152'-3199' (3400' TD)
Job Number: F335

DST #3, LKC "I&J"

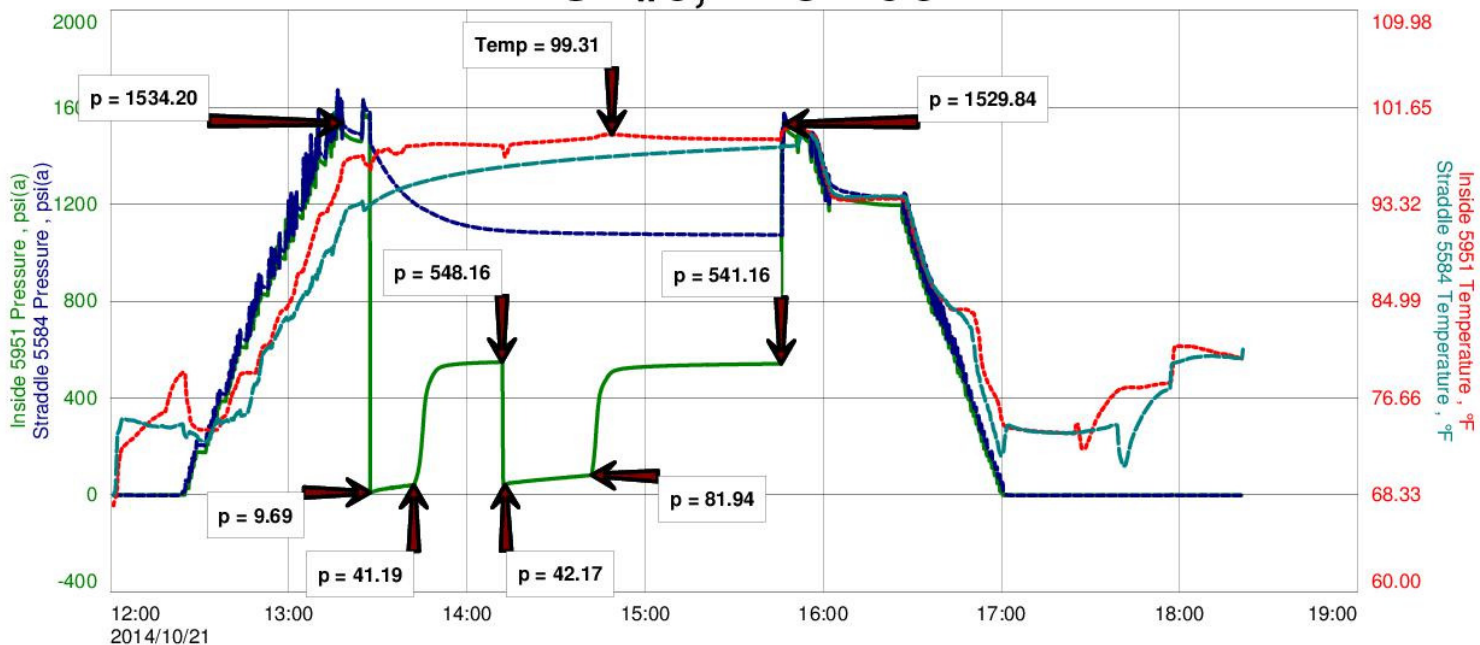


Image Header 05

ROCK TYPES



ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite

FOSSIL

- F Fossils < 20%
- G Gastropod
- φ Oolite

STRINGER

- ~ Chert
- green shale
- red shale

TEXTURE

- C Chalky
- L Lithogr

OTHER SYMBOLS

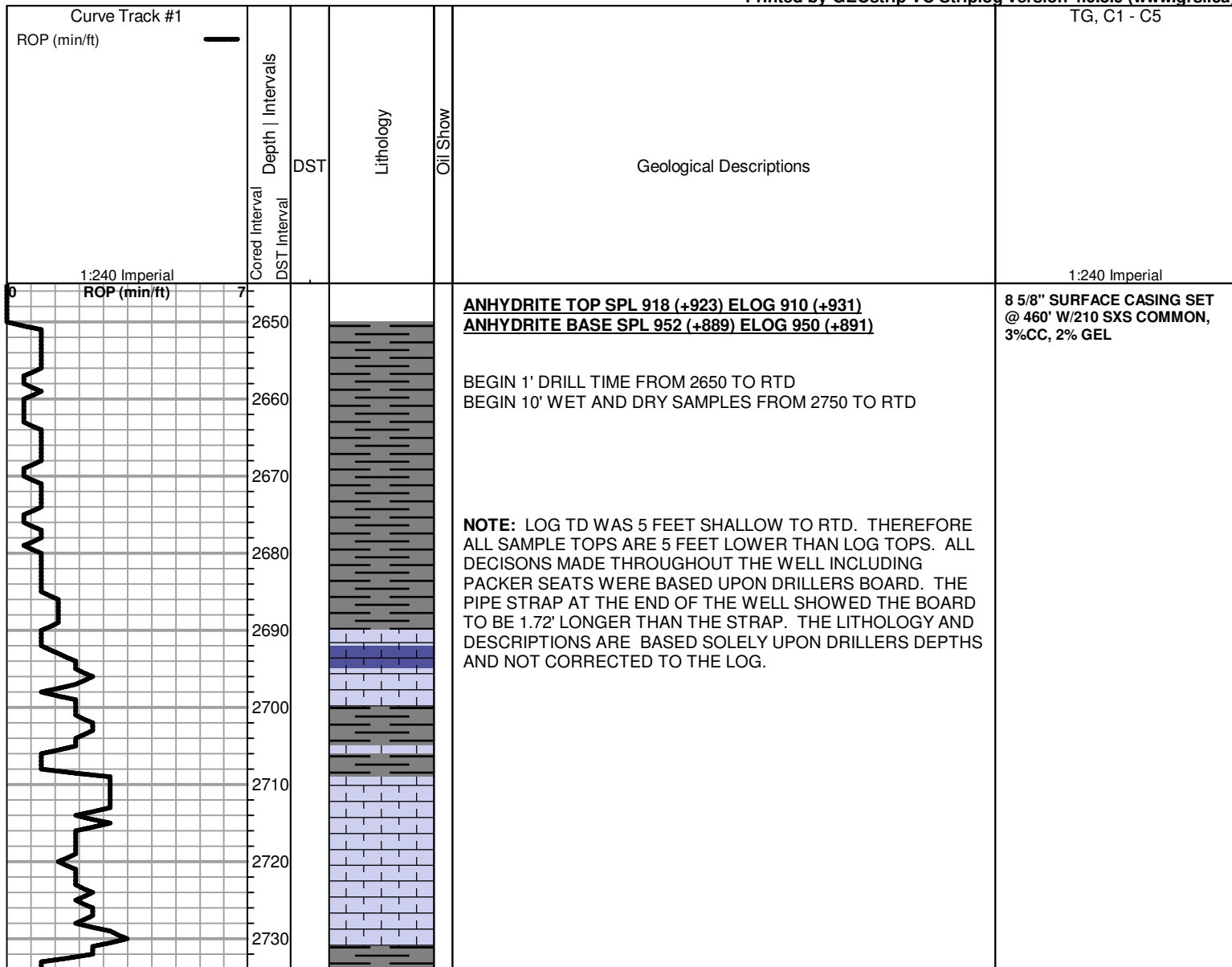
Oil Show

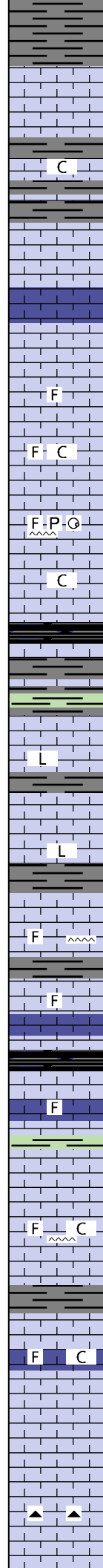
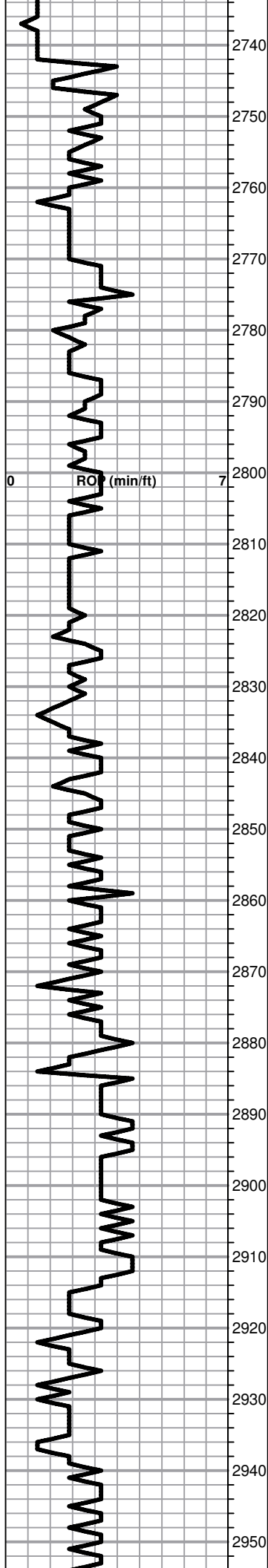
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe
- DST
- DST
- DST

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)





Sh - light-medium gray, soft, blocky

TOPEKA SPL 2742 (-901) ELOG 2737 (-896)

Lm - light gray-tan, granular, fine pinpoint porosity, friable, saturated medium brown oil stain, SFO upon crush, fair odor

Lm - cream-tan, fnxn, hard, brittle, slightly chalky

Lm - tan, fnxn, dense, hard

Lm - tan-light gray, fine interxn porosity with dark fossil clasts, well cemented, hard

Lm - light gray, fossiliferous, well cemented, hard, brittle, bedded chalk in part

Lm - cream, fnxn, slightly fossiliferous, hard, brittle, slightly chalky

Lm - cream-light brown, fossiliferous, medxn to granular, crumbly, pyrite gastropod, cherty

Lm - cream-tan, granular, chalky

Sh - black, carbonaceous, waxy, fissile

Sh - light greenish-gray, soft, sticky

Lm - cream, vfxn to lithographic in part, dense, hard, brittle, bedded chalk, one chip with fine pinpoint porosity and slight scattered stain, NSFO, no odor

Lm - cream-light gray, clean and bright, vfxn to lithographic, brittle, one chip as above with fine pinpoint porosity and slight light brown stain, NSFO, no odor

Lm - light gray, slightly fossiliferous, fnxn to granular, bedded chalk in part, cherty

Lm - light gray-tan, slightly fossiliferous, dense, hard, bedded chalk

Sh - black, carbonaceous, firm, waxy, pyrite

Lm - cream-tan, fnxn, slightly fossiliferous, brittle, bedded chalk

Sh - light greenish gray, soft, blocky

Lm - cream-fnxn to granular, hard

Lm - light gray-brown, fnxn, slightly fossiliferous, slightly chalky, cherty

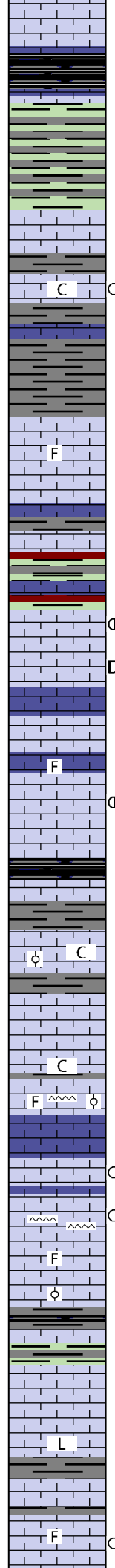
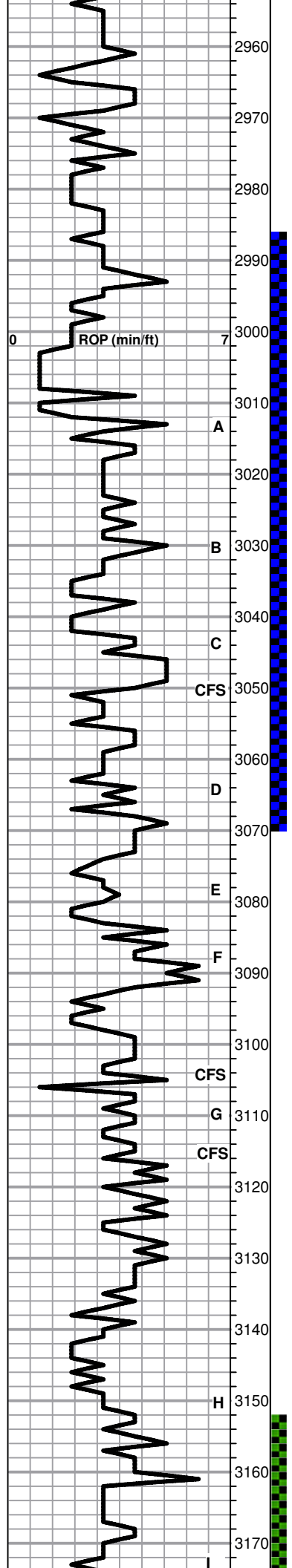
Lm - light gray-tan, fossiliferous, few chips with fine pinpoint porosity, slight scattered light brown stain, NSFO, no odor

Lm - cream-tan, granular, fossiliferous, crumbly, slightly chalky, no shows

Lm - tan-light gray, fnxn with scattered fine pinpoint porosity and slightly scattered to saturated in some light brown stain, few specks of free oil, faint odor

Lm - tan-cream, fnxn, hard, brittle, bedded chalk, dark chert

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Lm - cream-tan, fnxn, dense, hard, slightly chalky, no shows

HEEBNER SPL 2961 (-1120) ELOG 2956 (-1115)
 Sh - black, carbonaceous, firm, waxy, fissile

Sh - light green-gray, soft, blocky, forming sticky clumps

TORONTO SPL 2982 (-1141) ELOG 2974 (-1133)
 Lm - cream-offwhite, fnxn, clean and bright, hard, dense

Lm - offwhite, fnxn, dense, hard, some chips with fine pinpoint porosity and spotted light brown stain, NSFO, no odor, chalky

Sh - light-medium gray, soft, blocky

LKC SPL 3011 (-1170) ELOG 3006 (-1165)

Lm - tan, fnxn, slightly fossiliferous with very fine pinpoint porosity, slight scattered light brown stain, faint odor, NSFO

Sh - light greenish gray / maroon, soft, blocky, some sticky

Lm - cream-light gray, fnxn with fine pinpoint porosity, slight scattered light brown stain, few specks free oil, faint odor, slight streaming wet cut under UV light, grading into very chalky with some gilsonitic stain

Lm - tan-cream, fnxn, hard, dense, no shows

Lm - tan-light gray, fossiliferous, well cemented, dense, brittle

Lm - light gray, fnxn with scattered vuggy porosity, light golden brown scattered stain, fair odor, streaming wet cut under UV light, slight show of free gassy oil in a few, limited total porosity

Sh - black, carbonaceous, firm, fissile
 Lm - cream-tan, fnxn, dense, hard
 Sh - medium gray-brown, soft, blocky

Lm - cream, oolitic, very fine interxn porosity, slight scattered light brown stain, NSFO, no odor, chalky in part
 Sh - light gray, soft, sticky

Lm - cream-tan, oolitic with fine interxn porosity, slight scattered light brown stain, NSFO, no odor, brittle, chalky
 Lm - cream, fnxn, dense, hard, brittle, chalky

Lm - cream, fossiliferous, slightly oolitic with secondary recrystallization, dense, hard, cherty, pyrite, slight scattered gilsonitic stain, NSFO, no odor

Lm - cream, bright and clean, slight scattered pinpoint porosity, rare scattered light brown stain, NSFO, no odor

Lm - cream, fnxn, dense, hard, rare scattered vugs, slight stain, NSFO, no odor, cherty

Lm - cream, slightly fossiliferous, slight scattered pinpoint porosity, NSFO, no odor, limited total porosity
 Lm - tan, fnxn, slightly oolitic, poor development, dense, hard

Sh - light greenish gray, soft, sticky

Lm - tan, fine pinpoint porosity with spotted light brown stain, NSFO, no odor

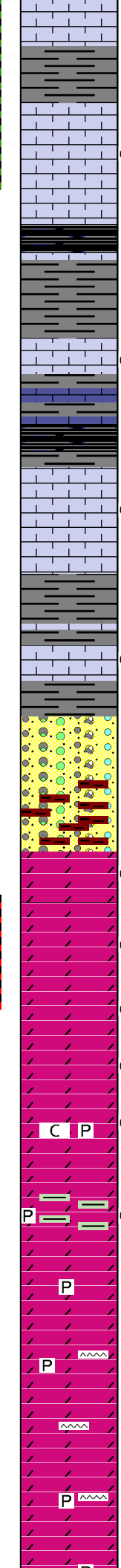
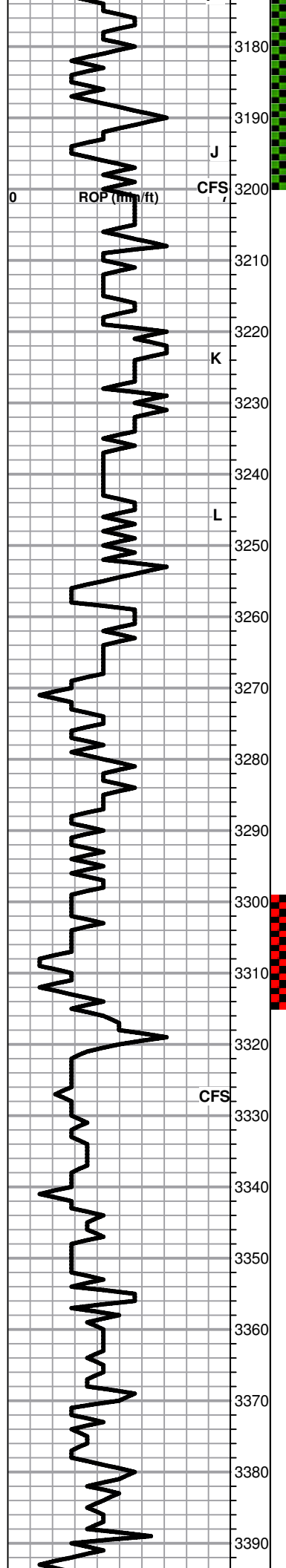
Lm - tan-medium brown, fnxn to lithographic in part, dense, hard

Lm - cream-tan, slightly fossiliferous, fnxn with scattered fine interxn porosity, light golden brown stain, faint odor, NSFO

DST #1 2986 TO 3070
 SEE HEADER FOR SUMMARY

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DST #3 3152 TO 3199
 STRADDLE
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Lm - tan, fnxn, dense, hard, slight bedded chalk, no shows

Sh - light-medium gray, soft, blocky

Lm - tan-light gray, fnxn, very hard, no shows

Lm - cream, fnxn with scattered fine interxn porosity and scattered vugs, with light golden brown stain, slight gassy oil sheen with a couple specks of free oil upon crush, UV fluorescence, few chips with oomoldic porosity with bubbling gassy oil escaping, fair odor

Sh - dark gray/black, carbonaceous, firm, fissile

Sh - light-medium gray, soft, blocky

Lm - cream, fine interxn porosity, spotted light brown stain, NSFO, no odor

Sh - black, carbonaceous, waxy, fissile

Lm - tan, fnxn with fine interxn porosity, slight scattered vugs, few specks of free oil, faint odor

BKC SPL 3253 (-1412) ELOG 3246 (-1405)

Sh - light-medium gray, soft, blocky

Lm - offwhite, scattered fine pinpoint porosity, with spotted light brown oil stain, faint odor

CONGLOMERATE SPL 3274 (-1433) ELOG 3269 (-1428)

Cherty Conglomerate - Lm's varied colors and textures
Sh's varied colors, green, orange, maroon, gray, black
Cherts orange, white, yellow, opaque brown

Cherty Conglomerate - A/A loaded with maroon sticky shales, red wash

ARBUCKLE SPL 3293 (-1452) ELOG 3288 (-1447)

Dolo - cream - offwhite, medxn, well developed rhombic xtals, fine interxn porosity with scattered vugs, good saturated dark oil stain, free oil floating on cup and in tray, strong odor

Dolo - cream, med-coarse xln, easily crushed, good SFO, strong odor, well developed, scattered vugs, Streaming wet cut under UV light, good gassy sheen throughout

Dolo - buff, medxn, well cemented, hard, saturated stain, SFO, good odor

Dolo - buff, medxn, spotted dark oil stain, fair odor, slight free oil upon crush

Dolo - tan-buff, fn-medxn, limited stain, slight SFO, fair odor, slightly chalky, pyrite

Dolo - buff-salmon pink, fnxn, NSFO, fair odor, slight scattered dark oil stain, some light green shale soft and waxy, pyrite

Dolo - offwhite, fnxn, brittle, no shows, fair odor, pyrite

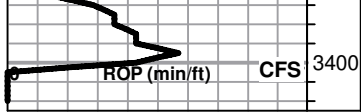
Dolo - cream, fnxn, no shows, cherty, pyrite

Dolo - buff-light gray, fnxn, brittle, hard, no shows, cherty

Dolo - tan, fnxn, hard, slightly chalky, clean and barren, cherty, pyrite

MUD WT 9.2
VIS 49

DST #2 3299 TO 3314
STRADDLE
SEE HEADER FOR SUMMARY



Dolo - tan-buff, frxn, chlalky, pyrite, cherty, no shows
RTD 3400 (-1559) LTD 3395 (-1554)

MUD WT 9.3
VIS 65