



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1232761
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: _____

1232761

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

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	PARKINSON-GOUGH 1-8
Doc ID	1232761

Tops

Name	Top	Datum
Stone Corral	2408	+681
Bs/Stone Corral	2428	+661
Heebner	3975	-886
Lansing	4017	-928
Muncie Creek	4202	-1113
Stark	4298	-1209
Marmaton	4434	-1345
Excello	4566	-1477
Mississippian	4778	-1689
LTD	5053	

ALLIED OIL & GAS SERVICES, LLC 064300

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley KS

DATE <u>10-30-14</u>	SEC. <u>8</u>	TWP. <u>17</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>1:30 pm.</u>	JOB START	JOB FINISH
LEASE <u>6.5th Bartinson</u>	WELL # <u>1-8</u>	LOCATION <u>Tr 4 5 W 1/2 S E into</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke 4

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2460'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 5bb/water 22.87bb/mud

OWNER Same

CEMENT AMOUNT ORDERED 270 sks Lite

60/40 44.9cl 1/4 # Flo-seal

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

Lite 270 sks @ _____

Flo-seal 68 # @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver

120 HELPER Tyler Flipse / Juan 3 hrs

BULK TRUCK DRIVER KIKO / Martin (TWS)

890/241

BULK TRUCK DRIVER _____

REMARKS:

Mix 50 sks @ 2460', Displace w/ mud

Mix 80 sks @ 1530', Displace w/ water

Mix 50 sks @ 750', Displace w/ water

Mix 40 sks @ 260'

Mix 20 sks @ 60'

Mix 30 sks in RH

Thank You!
Paul + Crew

CHARGE TO: Grand Mesa

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL _____

SERVICE

DEPTH OF JOB 2460'

PUMP TRUCK CHARGE 2460

EXTRA FOOTAGE _____ @ _____

MILEAGE MLV 45 @ _____

MANIFOLD MLV 45 @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rich Wheeler

SIGNATURE Rich Wheel

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Parkinson-Gough #1-8
Formation	Lansing "C" 4040'-4060'
Surface Location	Sec 8-17s-33w-Scott Co-KS
Company Name	Grand Mesa Operating Company
Test Type	Bottom-Hole DST W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/01/22
Start Test Time	01:29:00
Final Test Date	2014/10/22
Final Test Time	08:15:00
Job Number	F336
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

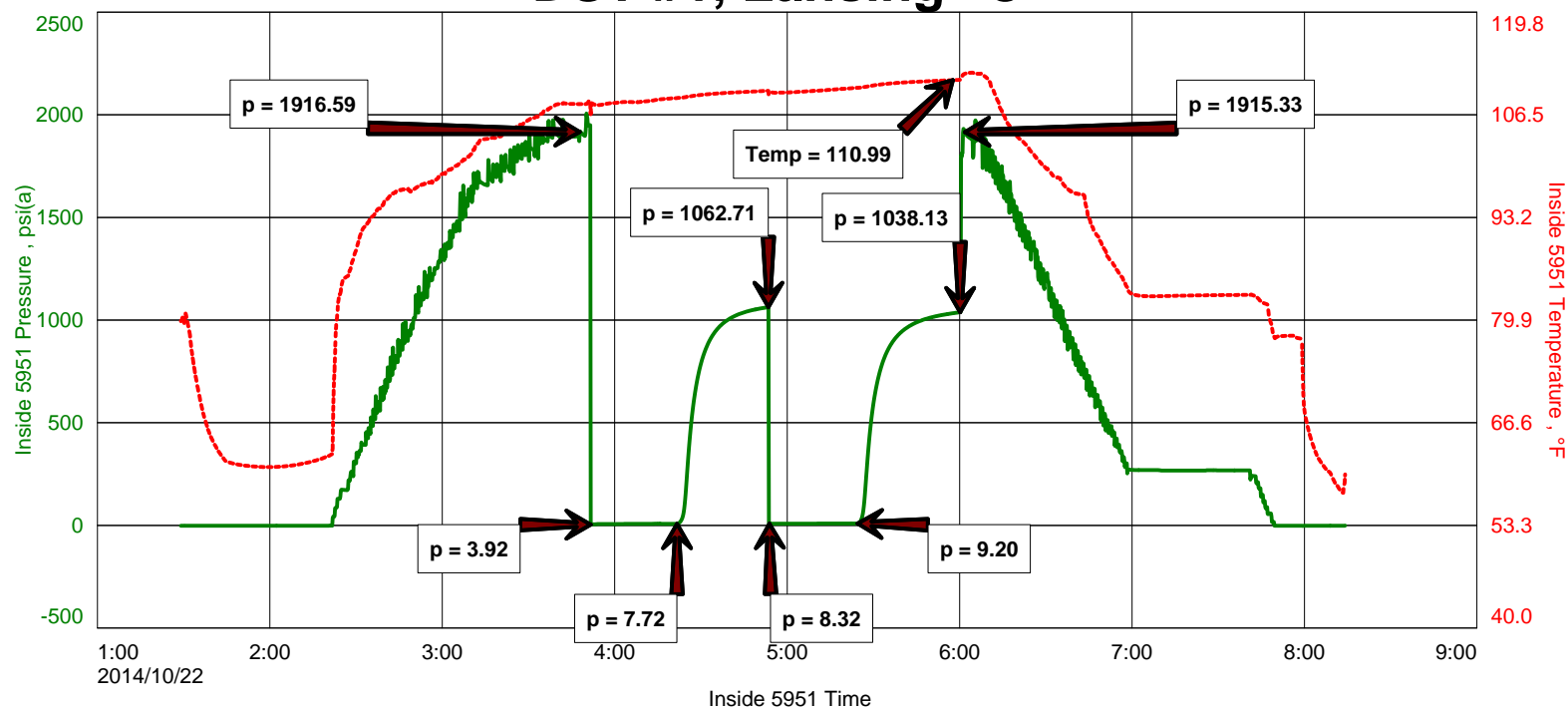
Initial flow, surface blow, blow died in 20 minutes.
Final flow, no blow.

RECOVERED: 5' OSM 2% oil, 98% mud

Grand Mesa Operating Company
Start Test Date: 2014/01/22
Final Test Date: 2014/10/22

Parkinson-Gough #1-8
Formation: Lansing "C" 4040'-4060'
Job Number: F336

DST #1, Lansing "C"





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

ON LOCATION: 23:15 10-21
 START RECORDERS: 01:29 10-22
 STOP RECORDERS: 08:15 10-22

Company GRAND MESA OPERATING COMPANY Lease & Well No. PARKINSON-GOUGH #1-8
 Contractor DUKE DRILLING COMPANY REG #4 Charge to GRAND MESA OPERATING COMPANY
 Elevation 3089' KB Formation LANSING "C" Effective Pay _____ Ft. Ticket No. F336
 Date 10/22/14 Sec. 8 Twp. 17S Range 33W County SCOTT State KANSAS
 Test Approved By KENT MATSON Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 4040 ft. to 4060 ft. Total Depth 4060 ft.
 Packer Depth 4035 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4040 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4018 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4041 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEMICAL Viscosity 52 (2"CM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 8.8 Water Loss 7.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 3600 P.P.M. Drill Pipe Length 4007 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 JJS Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 20 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: SURFACE BLOW, DEAD IN 20 MINUTES.
 2nd Open: NO BLOW.

Recovered 5 ft. of OSM 2" oil, 98" mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

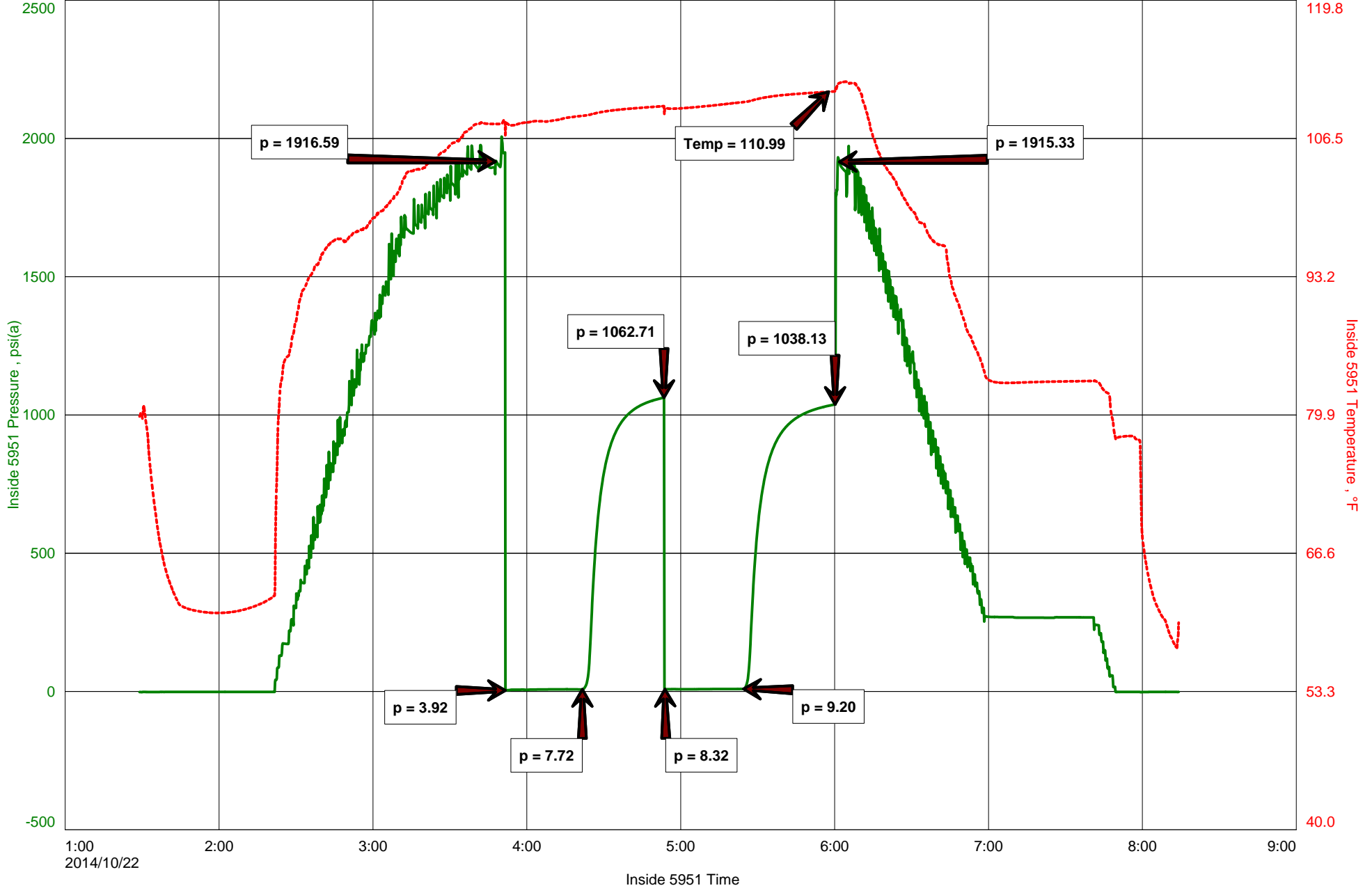
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	<u>JARS & SAFETY JOINT</u>
	<u>358 MRT (PRATT)</u>
	Total

Time Set Packer(s) 3:53 ^{AM} P.M. Time Started Off Bottom 5:53 ^{AM} P.M. Maximum Temperature 111°F

Initial Hydrostatic Pressure..... (A) 1917 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 4 P.S.I. to (C) 8 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 1063 P.S.I.
 Final Flow Period..... Minutes 30 (E) 8 P.S.I. to (F) 9 P.S.I.
 Final Closed In Period..... Minutes 30 (G) 1038 P.S.I. Thanks
 Final Hydrostatic Pressure..... (H) 1915 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.

DST #1, Lansing "C"





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	Parkinson-Gough #1-8
Formation	Lansing "E" 4092'-4120'
Surface Location	Sec 8-17s-33w-Scott Co-KS
Company Name	Grand Mesa Operating Company
Test Type	Bottom-Hole DST W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/10/22
Start Test Time	17:38:00
Final Test Date	2014/10/23
Final Test Time	01:04:00
Job Number	F337
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

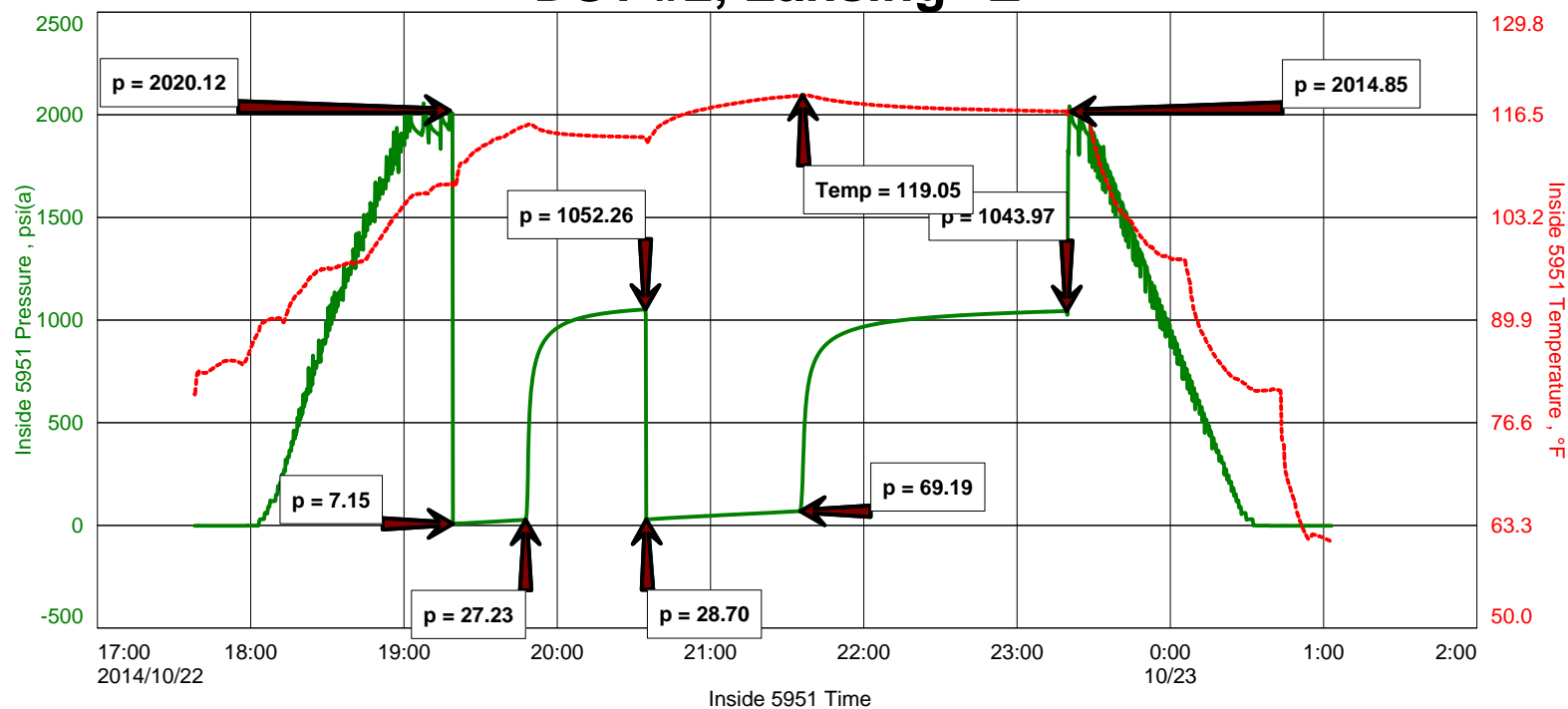
Initial flow, surface blow, increased to 3.5", no blowback.
 Final flow, surface blow, increased to 6.25", no blowback.

RECOVERED 125' OF SMCW 93% wtr, 7% mud
 Tool Sample: SOSW <1% oil, >99% wtr
 Chlorides: 57,000 PPM
 RW: .15 ohm @ 58 F
 PH: 7.0

Grand Mesa Operating Company
 Start Test Date: 2014/10/22
 Final Test Date: 2014/10/23

Parkinson-Gough #1-8
 Formation: Lansing "E" 4092'-4120'
 Job Number: F337

DST #2, Lansing "E"





DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: PAG01DST2

ON LOCATION: 17:15 10/22
START RECORDERS: 17:38 10/22
STOP RECORDERS: 01:04 10/23

Company GRAND MESA OPERATING Co Lease & Well No. PARKINSON-GOUGH #1-8
Contractor DUKE DRUG #4 Charge to G.M.O.C.
Elevation 3089' NB Formation LANSING "E" Effective Pay _____ Ft. Ticket No. F337
Date 10/22/14 Sec. 8 Twp. 17S Range 33W County SCOTT State KS
Test Approved By _____ Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 4092 ft. to 4120 ft. Total Depth 4120 ft.
Packer Depth 4087 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4092 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4070 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4093 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 64 (2" CGM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 4500 P.P.M. Drill Pipe Length 4059 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 45 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length 28 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2" x 4 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SURFACE BLOW, INC TO 3 1/2". NO BLOWBACK.
2nd Open: SURFACE BLOW, INC TO 6 1/4". NO BLOWBACK.

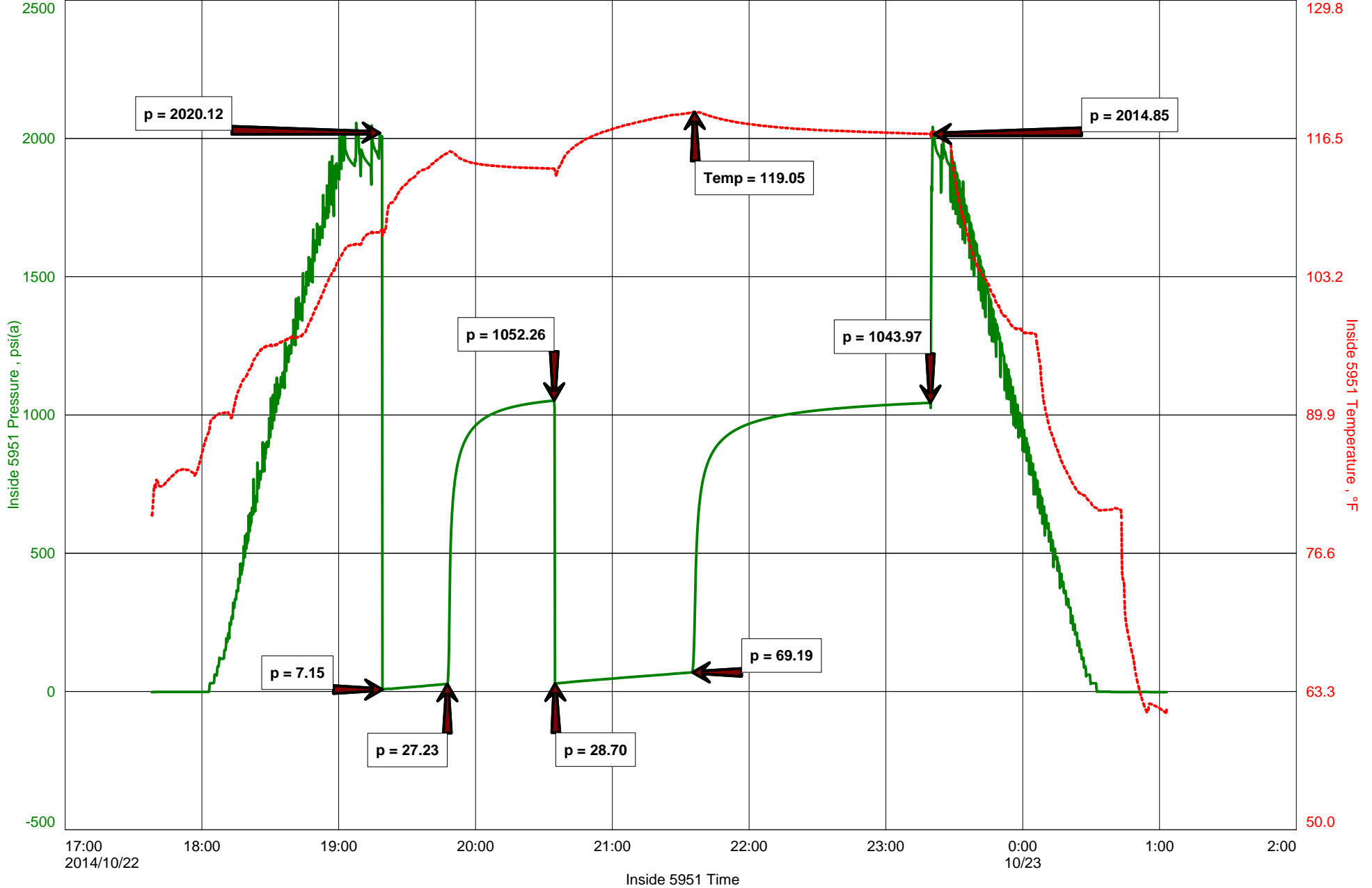
Recovered 125 ft. of SMCW 93" WTR, 7% MUD
Recovered _____ ft. of TOOL SAMPLE: SDSW <1" oil, >99" WTR
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: CHLORIDES: 57,000 PPM
RW: .15 Ω @ 58°F
PH: 7.0
Price Job _____
Other Charges _____
JARS, S. JOINT
35 ART (SCOTT CITY)
Total _____

Time Set Packer(s) 7:20 AM Time Started Off Bottom 11:05 AM Maximum Temperature 119 F
Initial Hydrostatic Pressure..... (A) 2020 P.S.I.
Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 27 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1052 P.S.I.
Final Flow Period..... Minutes 60 (E) 29 P.S.I. to (F) 69 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1044 P.S.I. THANKS!
Final Hydrostatic Pressure..... (H) 2015 P.S.I. Jacob & Jan

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DST #2, Lansing "E"





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.

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	Parkinson-Gough #1-8
Formation	Lansing "K" 4292'-4322' (4339' TD)
Surface Location	Sec 8-17s-33w-Scott Co-KS
Company Name	Grand Mesa Operating Company
Test Type	Tailpipe Straddle W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/10/23
Start Test Time	23:20:00
Final Test Date	2014/10/24
Final Test Time	03:58:00
Job Number	F338
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

Initial flow, surface blow, increased to 1/4" in 10 minutes, blow died in 26 minutes.
Final flow, no blow.

RECOVERED 6' OF MUD

Oil specks in tool, <1% oil, >99% mud

Grand Mesa Operating Company

Start Test Date: 2014/10/23

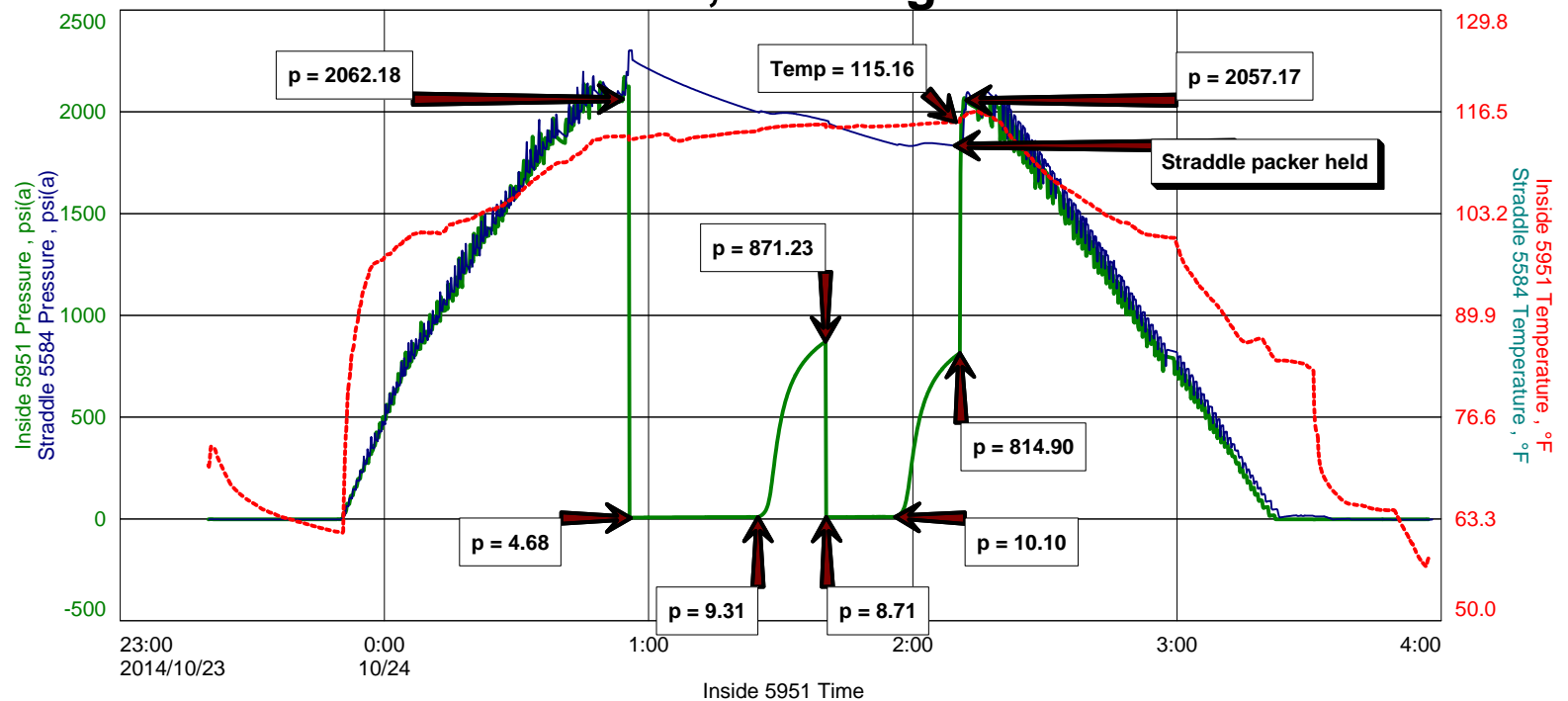
Final Test Date: 2014/10/24

Parkinson-Gough #1-8

Formation: Lansing "K" 4292'-4322' (4339' TD)

Job Number: F338

DST #3, Lansing "K"





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: PAGO1DST3

ON LOCATION:	<u>22:24</u>	<u>10/23</u>
START RECORDERS:	<u>23:20</u>	<u>10/23</u>
STOP RECORDERS:	<u>03:58</u>	<u>10/24</u>

Company GRAND MESA OPERATING COMPANY Lease & Well No. PARKENSON-GOUGH #1-8
 Contractor DUKE DRUG REG #4 Charge to G.M.O.C.
 Elevation 3089' KB Formation LANSING "K" Effective Pay _____ Ft. Ticket No. 1338
 Date 10/24/14 Sec. 8 Twp. 17s Range 33W County SCOTT State KS
 Test Approved By KENT MATSON Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 4292 ft. to 4322 ft. Total Depth 4339 ft.
 Packer Depth 4287 ft. Size 6 3/4 in. Packer depth 4322 ft. Size 6 3/4 in.
 Packer Depth 4292 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4270 ft. Recorder Number 5957 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4293 ft. Recorder Number 11034 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth 4325 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Mud Type CHEMICAL Viscosity 57 (1"10CM) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 7000 P.P.M. Drill Pipe Length 4259 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J.J. STRADDLE Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 30 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: SURFACE FLOW, IN 10' TO 1/4" IN 10 MIN, DEAD IN 26 MIN.
 2nd Open: NO BLOW.

Recovered 6 ft. of MUD 100' MUD
 Recovered _____ ft. of OIL SPECKS IN TOOL <1% oil, >99% mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

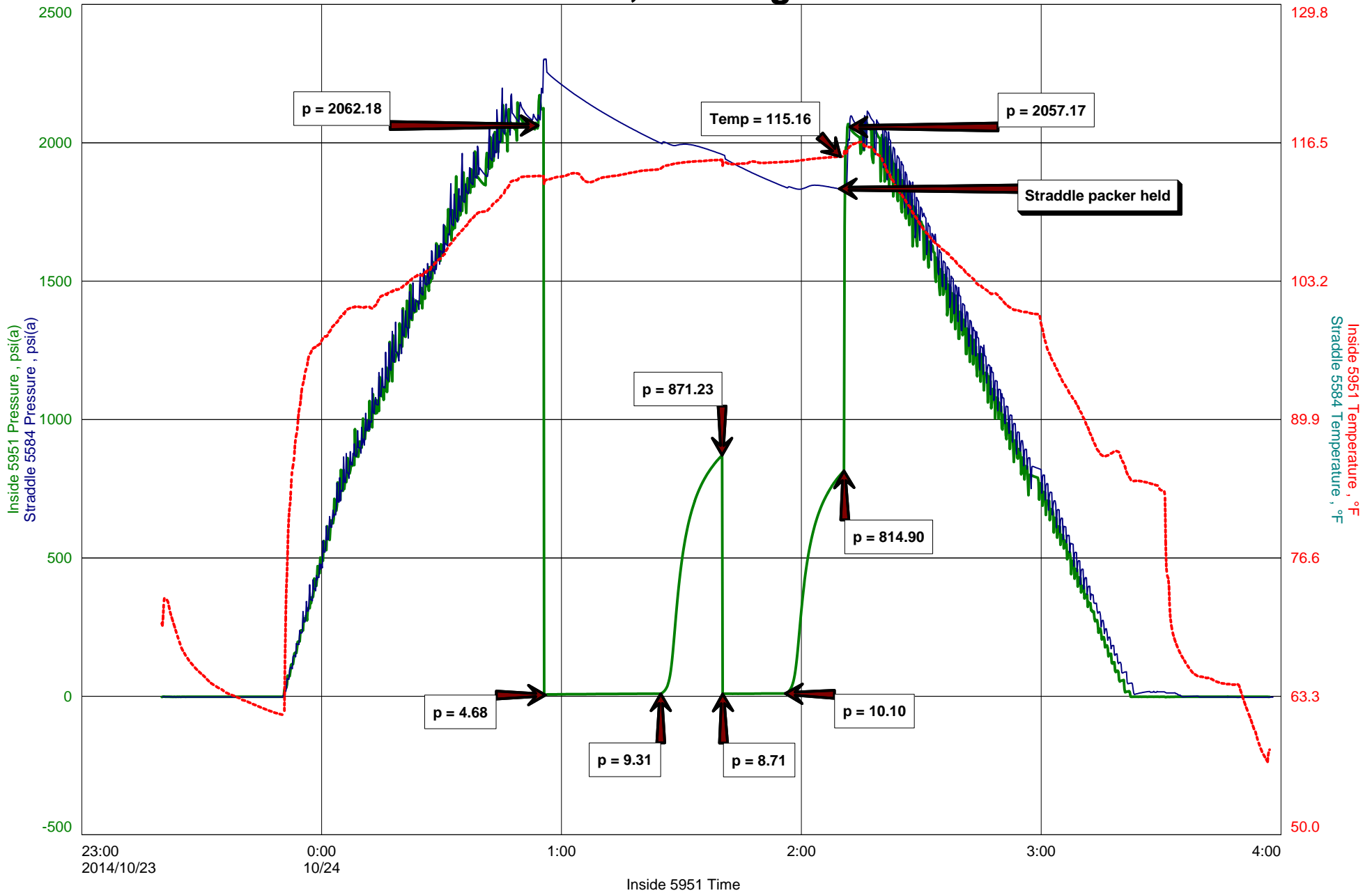
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges <u>STRADDLE</u>
Remarks: _____	<u>JARS, S. JOINT</u>
	<u>35 MRT (SCOTT CITY)</u>
	Total

Time Set Packer(s) 12:56 A.M. P.M. Time Started Off Bottom 1:11 A.M. P.M. Maximum Temperature 115°F

Initial Hydrostatic Pressure..... (A) 2062 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 5 P.S.I. to (C) 9 P.S.I.
 Initial Closed In Period..... Minutes 15 (D) 871 P.S.I.
 Final Flow Period..... Minutes 15 (E) 9 P.S.I. to (F) 10 P.S.I.
 Final Closed In Period..... Minutes 15 (G) 815 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 2057 P.S.I. Jake & John

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 #3, Lansing "K"





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.

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	Parkinson-Gough #1-8
Formation	Lansing "L" 4334'-4371'
Surface Location	Sec 8-17s-33w-Scott Co-KS
Company Name	Grand Mesa Operating Company
Test Type	Bottom-Hole DST W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/10/24
Start Test Time	12:38:00
Final Test Date	2014/10/24
Final Test Time	20:28:00
Job Number	F339
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

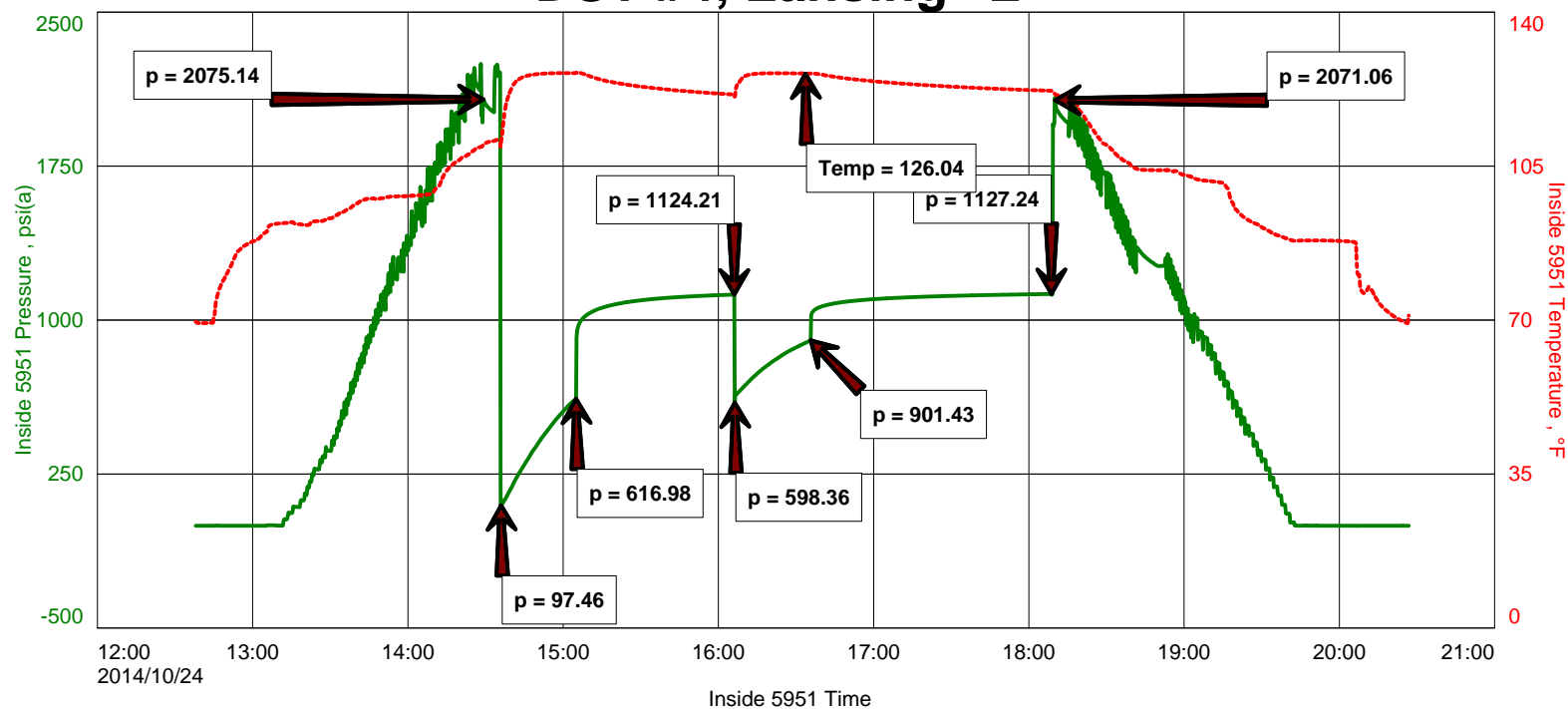
Initial flow, strong blow @ BOB in 2 minutes. No blowback.
 Final flow, strong blow @ BOB in 2 3/4 minutes. No blowback.

RECOVERED 1,980' OF SALT WATER
 Chlorides: 43,000 PPM
 RW: .14 ohm @ 85 Deg F
 PH: 7.5

Grand Mesa Operating Company
 Start Test Date: 2014/10/24
 Final Test Date: 2014/10/24

Parkinson-Gough #1-8
 Formation: Lansing "L" 4334'-4371'
 Job Number: F339

DST #4, Lansing "L"





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

ON LOCATION:	<u>11:45</u>
START RECORDERS:	<u>12:38</u>
STOP RECORDERS:	<u>20:28</u>

Company GRAND MESA OPERATING CO. Lease & Well No. PARKINSON-GOUGH #1-8
 Contractor DUNE DRILL REG #4 Charge to G.M.O.C.
 Elevation 3089' NB Formation LANSING "L" Effective Pay _____ Ft. Ticket No. F939
 Date 10-24-14 Sec. 8 Twp. 17S Range 33W County SCOTT State KANSAS
 Test Approved By KENT MATSON Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 4 Interval Tested from 4334 ft. to 4371 ft. Total Depth 4371 ft.
 Packer Depth 4329 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4334 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4312 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4335 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 (1°C/M) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 7400 P.P.M. Drill Pipe Length 4301 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 5 JJS Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 37 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" X in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW @ BOB IN 2 MINUTES. NO BLOWBACK.
 2nd Open: STRONG BLOW @ BOB IN 2 3/4 MINUTES. NO BLOWBACK.

Recovered 1980 ft. of SALT WATER 100" WTR
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

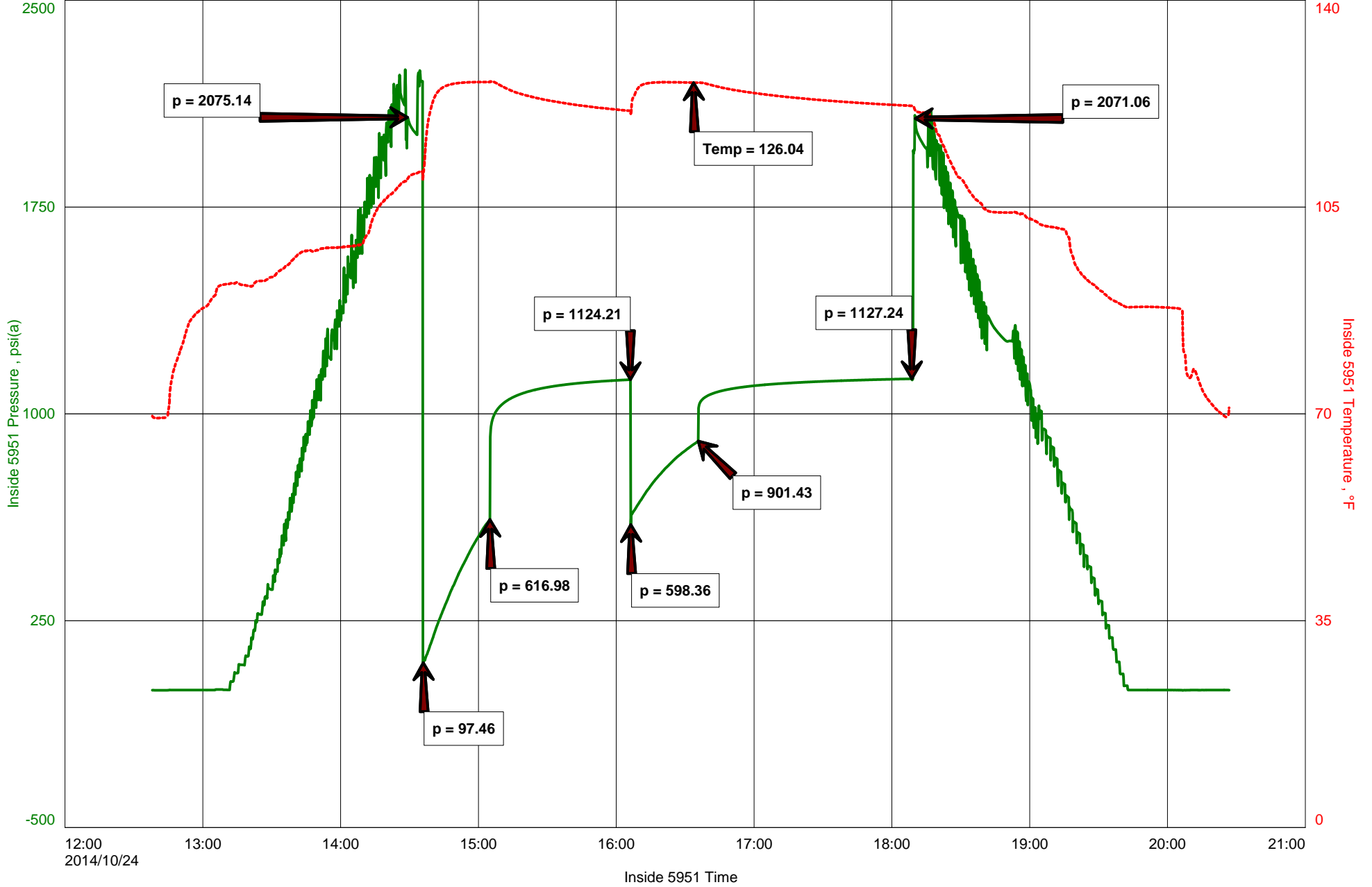
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>CHLORIDES: 43,000 PPM</u> <u>RW: .14 @ 86 F</u> <u>PH: 7 1/2</u>	<u>JARS, S. JOINT</u> <u>35 MRT (SCOTT CITY)</u>
	Total

Time Set Packer(s) 2:38 ^{AM}/_{PM} Time Started Off Bottom 6:08 ^{AM}/_{PM} Maximum Temperature 126 F

Initial Hydrostatic Pressure..... (A) 2075 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 97 P.S.I. to (C) 617 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 1124 P.S.I.
 Final Flow Period..... Minutes 30 (E) 598 P.S.I. to (F) 901 P.S.I.
 Final Closed In Period..... Minutes 90 (G) 1127 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 2071 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.

DST #4, Lansing "L"





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	Parkinson-Gough #1-8
Formation	Pleasanton-Pawnee 4400'-4490'
Surface Location	Sec 8-17s-33w-Scott Co-KS
Company Name	Grand Mesa Operating Company
Test Type	Bottom-Hole W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/10/25
Start Test Time	18:29:00
Final Test Date	2014/10/26
Final Test Time	03:05:00
Job Number	F340
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

Initial flow, blow increased to BOB in 6 minutes. Blowback increased to 8".
 Final flow, blow increased to BOB in 7 minutes. Blowback increased to BOB in 60 minutes.

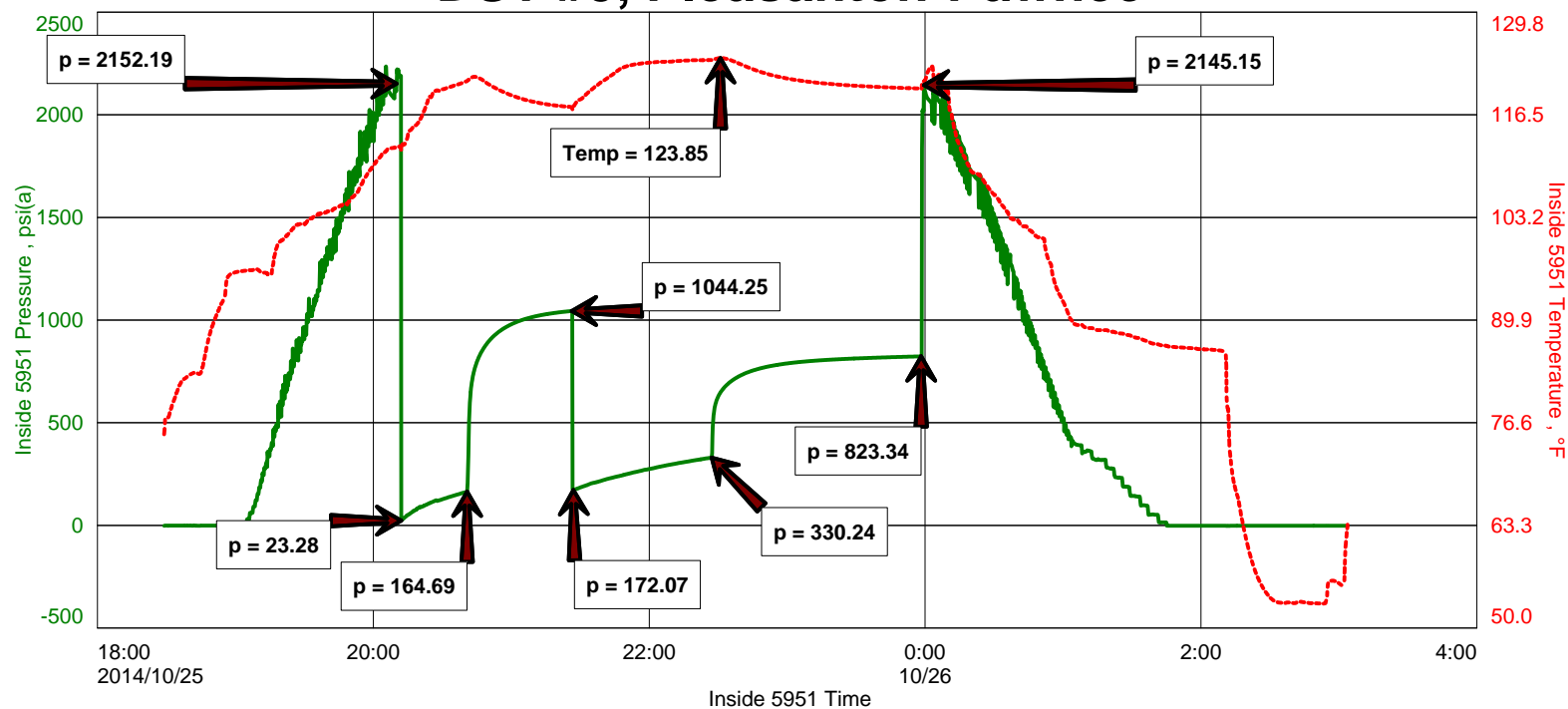
TOTAL RECOVERED FLUID: 850'

600' Clean Oil 100% oil
 250' GCMO 15% gas, 45% oil, 40% mud
 ----- 500' GAS IN PIPE
 ----- GRAVITY: 34.5 @ 60F

Grand Mesa Operating Company
 Start Test Date: 2014/10/25
 Final Test Date: 2014/10/26

Parkinson-Gough #1-8
 Formation: Pleasanton-Pawnee 4400'-4490'
 Job Number: F340

DST #5, Pleasanton-Pawnee





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
 DRILL-STEM TEST TICKET
 FILE: PAGO10ST5

ON LOCATION: 18:05 10-25
 START RECORDERS: 18:29 10-25
 STOP RECORDERS: 03:05 10-26

Company GRAND MESA OP. Co. Lease & Well No. PARKINSON-GOUGH #1-8
 Contractor DUKE DRUG REG #4 Charge to G.M.O.C.
 Elevation 3089' KB Formation PLEASANTON - PAWNEE Ft. Ticket No. F340
 Date 10-25-14 Sec. 8 Twp. 17s Range 33w County SCOTT State KS
 Test Approved By KENT MATSON Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 5 Interval Tested from 4400 ft. to 4490 ft. Total Depth 4490 ft.
 Packer Depth 4395 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Packer Depth 4400 ft. Size 6 3/4 in. Packer depth --- ft. Size 6 3/4 in.
 Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4378 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4403 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. --- P.S.I.

Mud Type CHEMICAL Viscosity 50 (1" LCM) Drill Collar Length --- ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 8.8 cc. Weight Pipe Length --- ft. I.D. 2 7/8 in.
 Chlorides 8000 P.P.M. Drill Pipe Length --- ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? --- Reversed Out --- Anchor Length 90 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 x 1 1/2 in. 26' PERF IN MUDHOLE Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO BOB IN 6 MINUTES. BB INC TO 8"
 2nd Open: BLOW INCREASED TO BOB IN 7 MINUTES. BB @ BOB 1 HOUR.

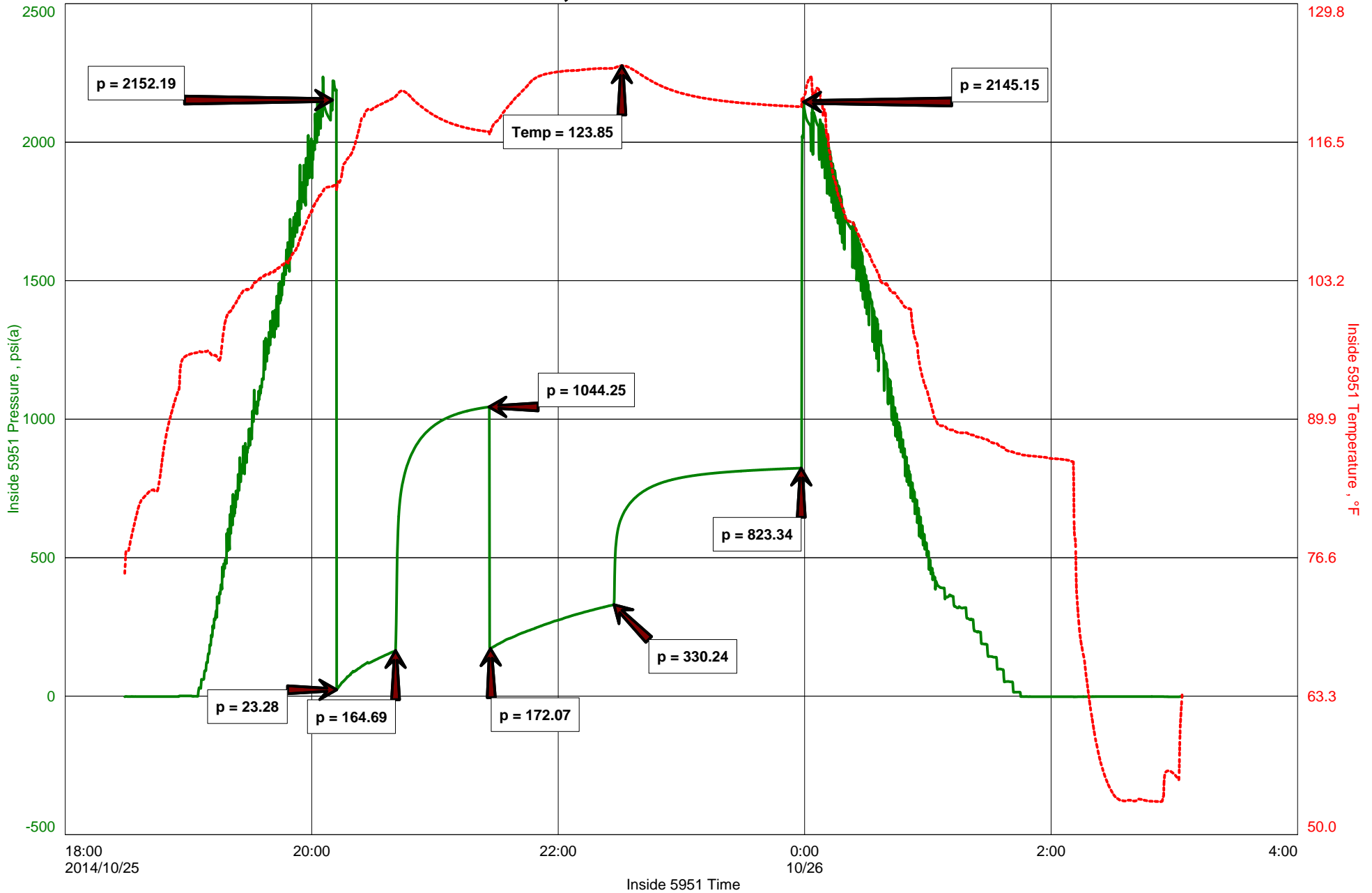
Recovered 600 ft. of CLEAN OIL 100' OIL
 Recovered 250 ft. of GCMO 15" gas, 45" oil, 40" mud
 Recovered --- ft. of 500 GAS IN PIPE
 Recovered --- ft. of TOTAL RECOVERED FLUID: 850'
 Recovered --- ft. of GRAVITY: 34 1/2 @ 60F

Remarks: JARS 5 JOINT
35 MRT (SCOT CITY)
 Total

Time Set Packer(s) 8:13 A.M. Time Started Off Bottom 11:58 P.M. Maximum Temperature 124°F
 Initial Hydrostatic Pressure..... (A) 2152 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 23 P.S.I. to (C) 165 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1044 P.S.I.
 Final Flow Period..... Minutes 60 (E) 172 P.S.I. to (F) 330 P.S.I.
 Final Closed In Period..... Minutes 90 (G) 823 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 2145 P.S.I. Jacob J...

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 #5, Pleasanton-Pawnee





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.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Parkinson-Gough #1-8
Formation	Pleasanton-Pawnee
Surface Location	Sec 8-17s-33w-Scott Co-KS
Company Name	Grand Mesa Operating Company
Test Type	Tailpipe Straddle W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/10/26
Start Test Time	13:57:00
Final Test Date	2014/10/26
Final Test Time	22:18:00
Job Number	F341
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

Initial flow, blow increased to BOB in 9.5 minutes, blew back @ 1".
 Final flow, blow increased to BOB in 11 minutes, blew back @ 8.5".

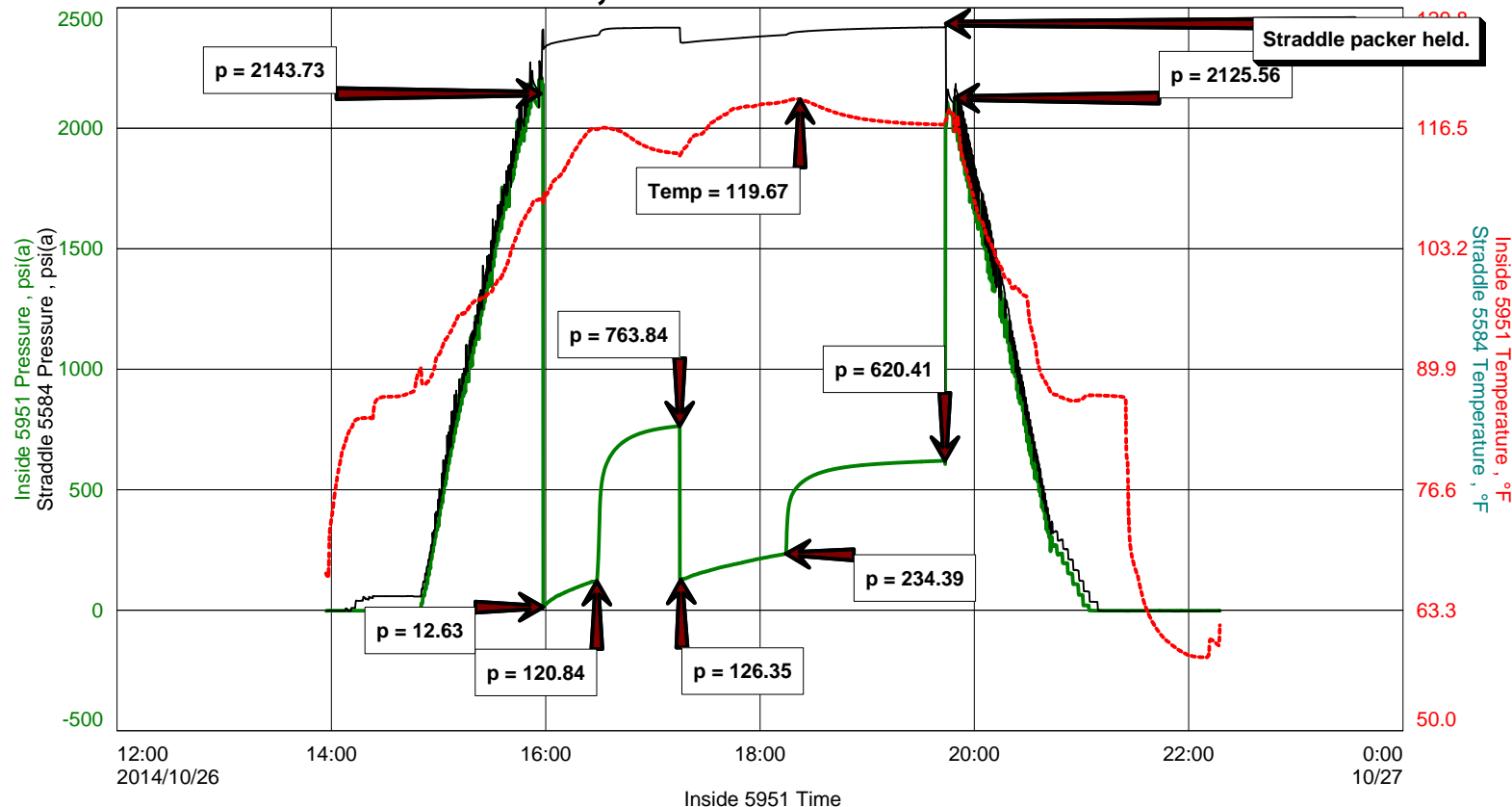
TOTAL RECOVERED FLUID: 580'

- 180' Clean Oil 100% oil
- 400' Gssy MCO 15% gas, 60% oil, 25% mud
- 190' GAS IN PIPE
- Gravity: 34.5 @ 60F

Grand Mesa Operating Company
 Start Test Date: 2014/10/26
 Final Test Date: 2014/10/26

Parkinson-Gough #1-8
 Formation: Pleasanton-Pawnee
 Job Number: F341

DST #6, Pleasanton-Pawnee





DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: PAG01DSTC6

ON LOCATION: 13:00
START RECORDERS: 13:57
STOP RECORDERS: 22:18

Company GRAND MESA OPERATING CO. Lease & Well No. PARKINSON-GOUGH #1-8
Contractor DUKE DRILL REG # 4 Charge to G.M.O.C.
Elevation 3089' KB Formation PLEASANTON - PAWNEE Ft. Ticket No. F341
Date 10/26/14 Sec. 8 Twp. 17S Range 33W County SCOTT State KS
Test Approved By KENT MATSON Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 0 Interval Tested from 4398 ft. to 4492 ft. Total Depth 4540 ft.
Packer Depth 4393 ft. Size 6 3/4 in. Packer depth 4492 ft. Size 6 3/4 in.
Packer Depth 4398 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4376 ft. Recorder Number 5957 Cap. 5000 S.I.
Bottom Recorder Depth (Outside) ft. Recorder Number Cap. P.S.I.
Below Straddle Recorder Depth 4499 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Mud Type CHEMICAL Viscosity 65 (1" LCM) Drill Collar Length ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 9.6 cc. Weight Pipe Length ft. I.D. 2 7/8 in.
Chlorides 9000 P.P.M. Drill Pipe Length 4365 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 J.J. STRADDLE Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Reversed Out Anchor Length 94 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size 27" PERF IN ANCHOR in. Bottom Choke Size 5/8 in.

Blow: 1st Open: BLOW INCREASED TO BOB IN 9 1/2 MINUTES. BB @ 1".
2nd Open: BLOW INCREASED TO BOB IN 11 MINUTES. BB @ 8 1/2".

Recovered 180 ft. of CLEAN OIL 100% oil
Recovered 400 ft. of Gassy MUD 15" gas 60% oil, 25% mud
Recovered ft. of 190' GAS IN PIPE
Recovered ft. of TOTAL RECOVERED FLUID: 580'

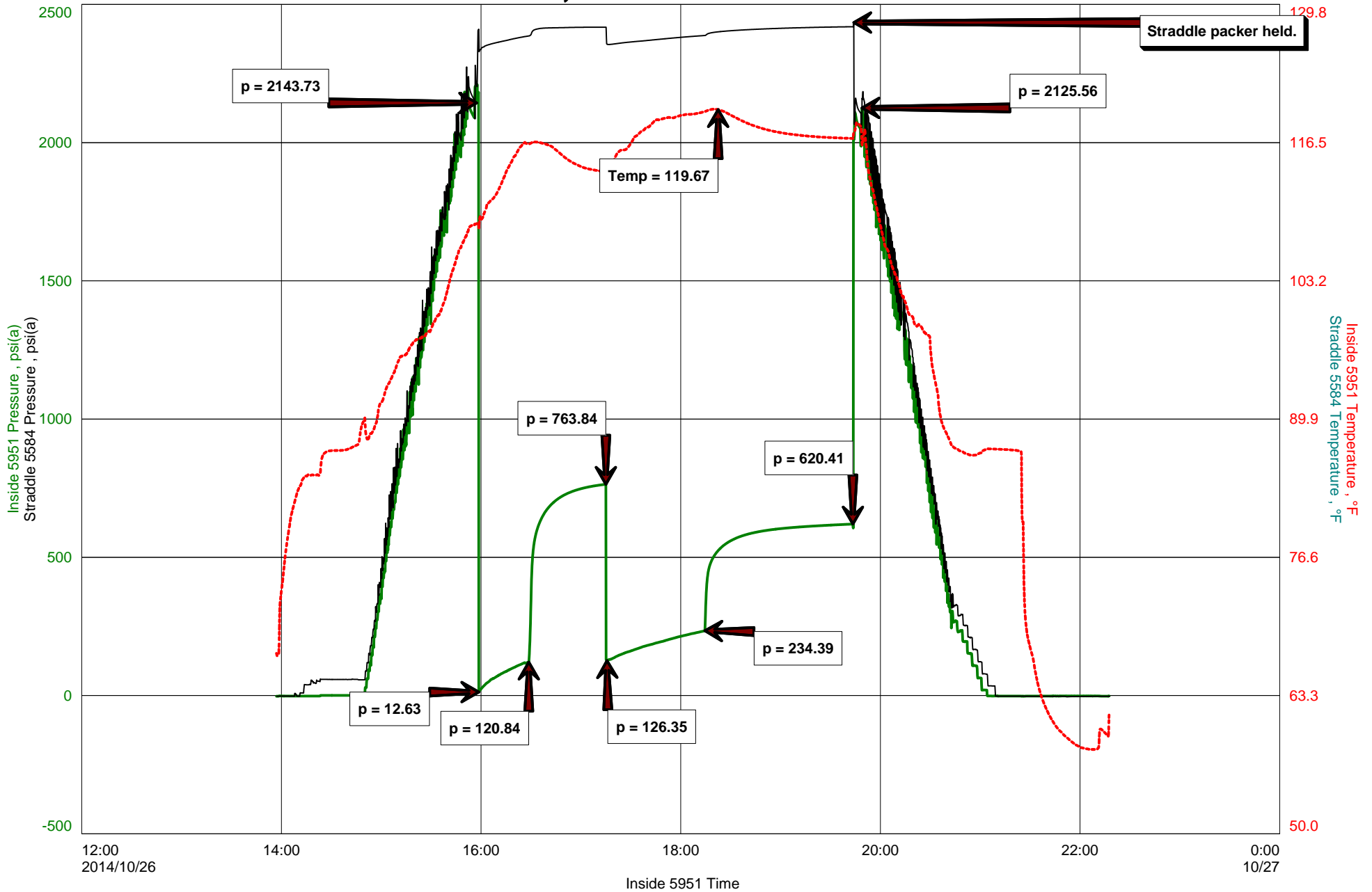
Recovered ft. of GRAVITY: 34 1/2 @ 60 F
Recovered ft. of
Remarks: JARS, S. JOINT
35 MRT (SCOTT CITY)
Total

Time Set Packer(s) 3:58 AM P.M. Time Started Off Bottom 7:43 AM P.M. Maximum Temperature 120 F

Initial Hydrostatic Pressure..... (A) 2144 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 121 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 764 P.S.I.
Final Flow Period..... Minutes 60 (E) 126 P.S.I. to (F) 234 P.S.I.
Final Closed In Period..... Minutes 90 (G) 620 P.S.I. Thank you!
Final Hydrostatic Pressure..... (H) 2126 P.S.I. probe failure

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 #6, Pleasanton-Pawnee





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	Parkinson-Gough #1-8
Formation	Fort Scott - Verdigris 4506'-4590'
Surface Location	Sec 8-17s-33w-ScottCo-KS
Company Name	Grand Mesa Operating Company
Test Type	Bottom-Hole DST W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/10/27
Start Test Time	09:36:00
Final Test Date	2014/10/27
Final Test Time	14:34:00
Job Number	F342
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

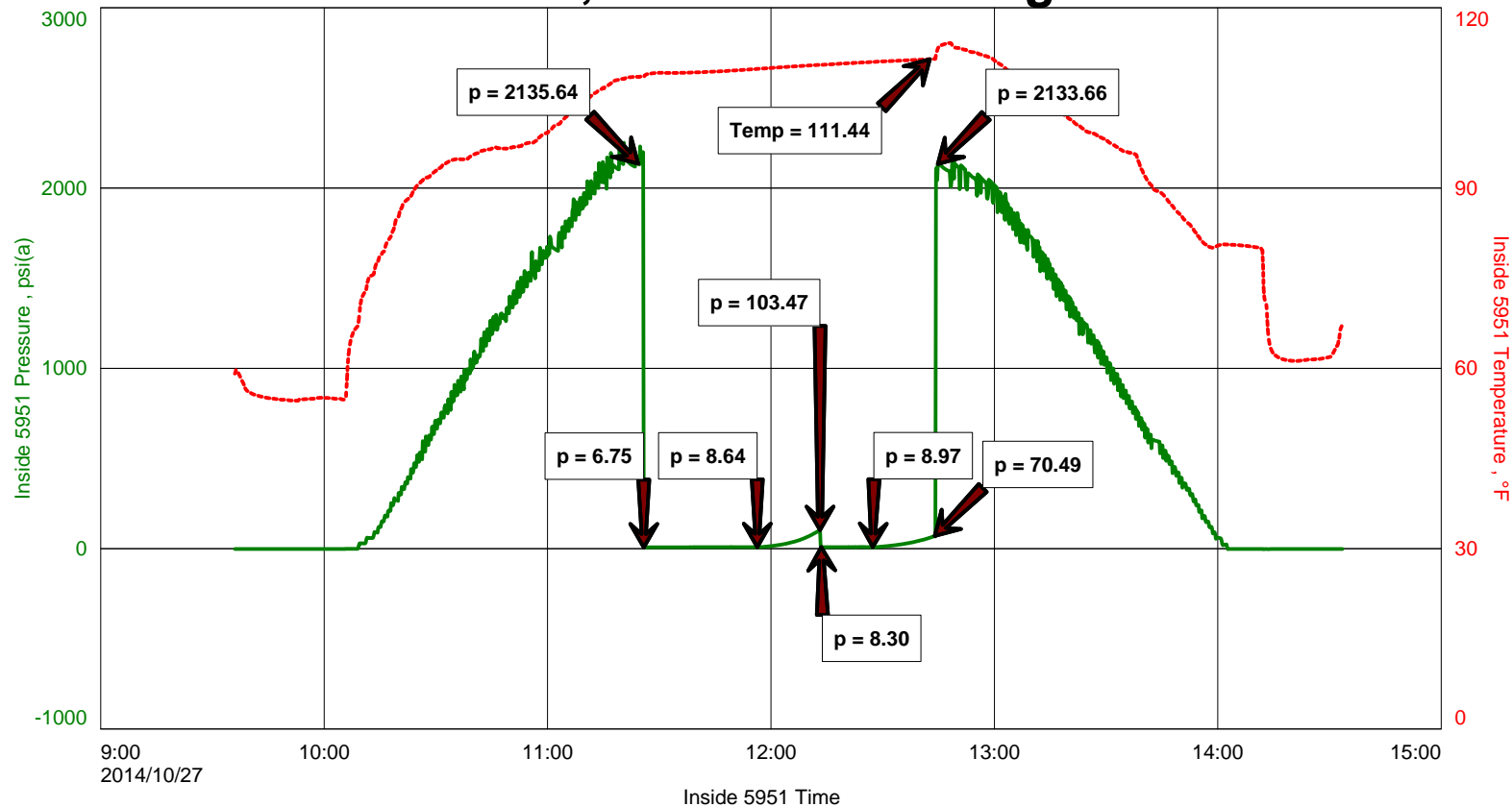
Initial flow, surface blow, increased to .5" in 10 minutes, blow died.
Final Flow, no blow.

RECOVERED 5' OF OSM 1% oil, 99% mud

Grand Mesa Operating Company
Start Test Date: 2014/10/27
Final Test Date: 2014/10/27

Parkinson-Gough #1-8
Formation: Fort Scott - Verdigris 4506'-4590'
Job Number: F342

DST #7, Fort Scott - Verdigris





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: PAGO1DST7

ON LOCATION: 09:16
 START RECORDERS: 09:36
 STOP RECORDERS: 14:34

Company GRAND MESA OPERATING CO. Lease & Well No. PARKINSON-GOUGH #1-8
 Contractor DUKE DRUG REG #4 Charge to G.M.O.C.
 Elevation 3089' KB Formation FORT SCOTT - VERDIGRIS Ft. Ticket No. F342
 Date 10/27/14 Sec. 8 Twp. 17S Range 33W County SCOTT State KANSAS
 Test Approved By KENT MATSON Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 7 Interval Tested from 4506 ft. to 4590 ft. Total Depth 4590 ft.
 Packer Depth 4501 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
 Packer Depth 4506 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
 Depth of Selective Zone Set

Top Recorder Depth (Inside) 4486 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4572 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEMICAL Viscosity 63 (1" LCM) Drill Collar Length ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length ft. I.D. 2 7/8 in.
 Chlorides 6500 P.P.M. Drill Pipe Length 4473 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 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 20' PERF IN MANDR in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SURFACE BLOW, INC TO 1/2" IN 10 MIN, BLOW DIED
 2nd Open: NO BLOW

Recovered 5 ft. of OSM 1" OIL, 99" MWD
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

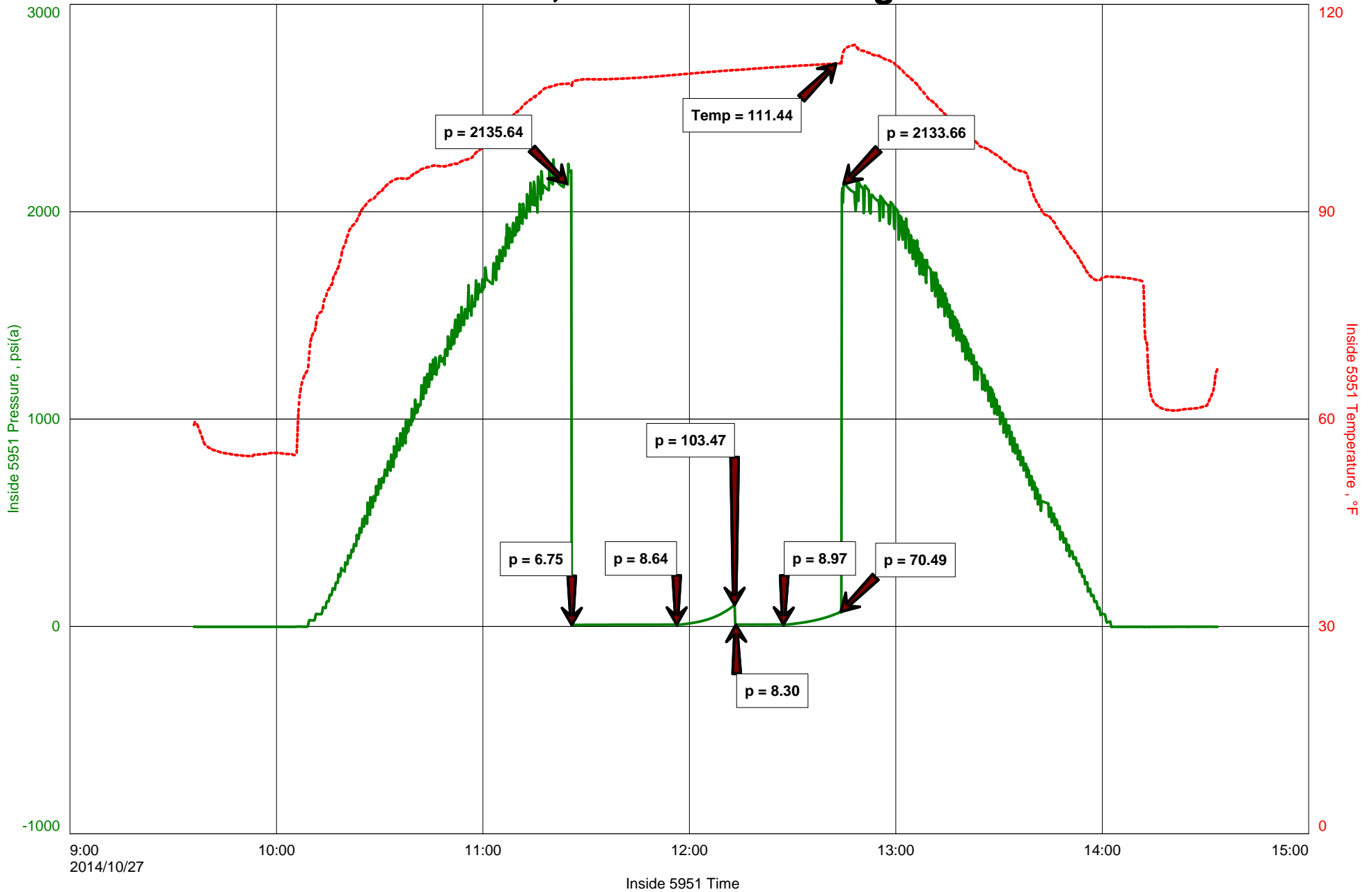
Price Job
Other Charges
<u>JARS, S. JOINT</u>
<u>35 MRT (SCOTT)</u>
Total

Time Set Packer(s) 11:30 ^{A.M.} P.M. Time Started Off Bottom 12:45 ^{A.M.} P.M. Maximum Temperature 111° F

Initial Hydrostatic Pressure..... (A) 2136 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 9 P.S.I.
 Initial Closed In Period..... Minutes 15 (D) 103 P.S.I.
 Final Flow Period..... Minutes 15 (E) 8 P.S.I. to (F) 9 P.S.I.
 Final Closed In Period..... Minutes 15 (G) 70 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 2134 P.S.I. Jake Fahrenbruch

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DST #7, Fort Scott - Verdigris





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.

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Parkinson-Gough #1-8
Formation	Krebs - Atoka 4610'-4710'
Surface Location	Sec 8-17s-33w-Scott Co-KS
Company Name	Grand Mesa Operating Company
Test Type	Bottom-Hole DST W/J&J
Gauge Name	Inside 5951
Start Test Date	2014/10/28
Start Test Time	06:49:00
Final Test Date	2014/10/28
Final Test Time	14:46:00
Job Number	F343
Contact	Steve Stribling
Site Contact	Kent Matson

TEST RESULTS

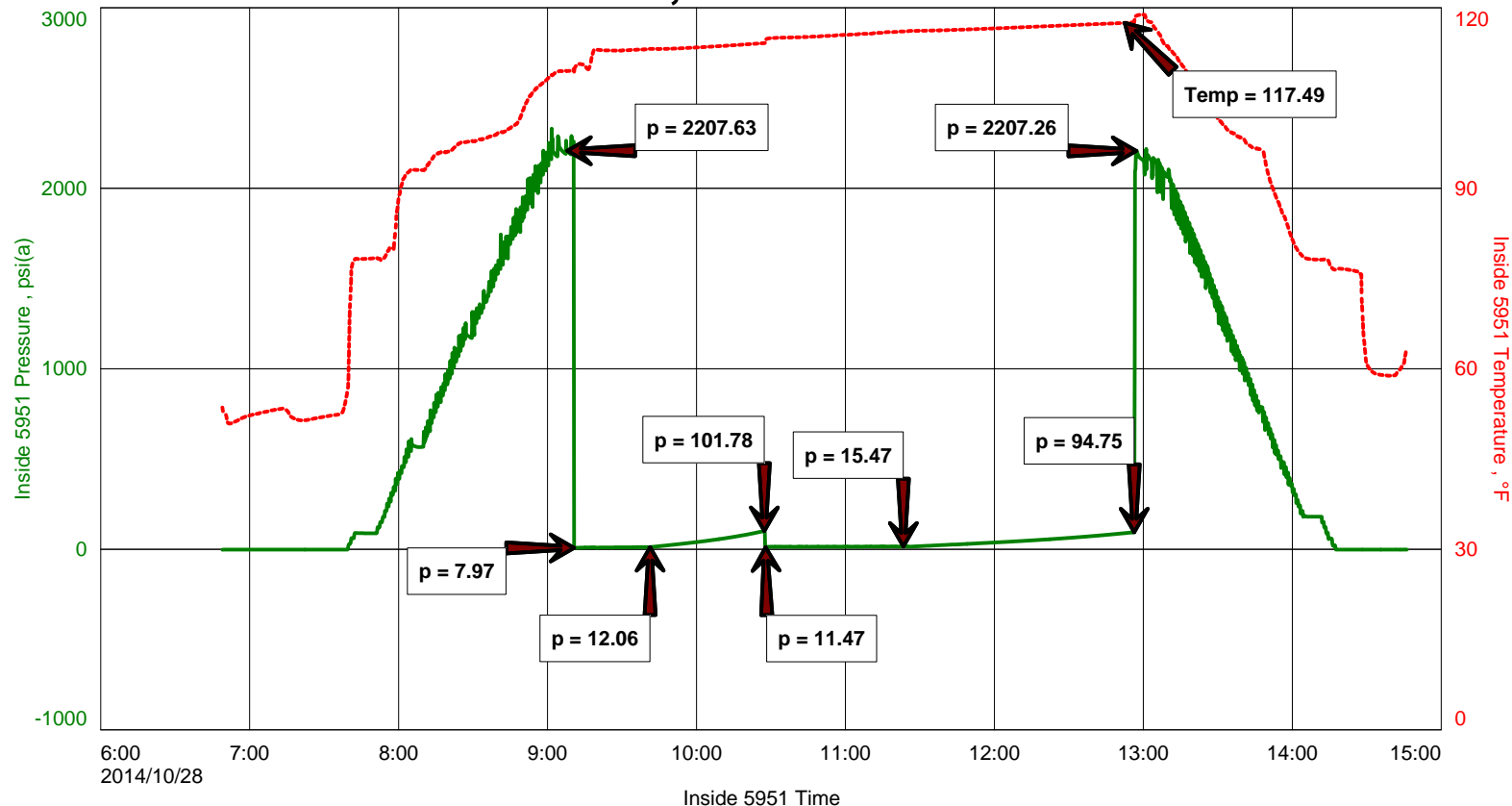
Initial flow, surface blow, increased to 1.75". No blowback.
 Final flow, surface blow, increased to 1.75". No blowback.

Recovered 20' of SOCM. 5% oil, 95% mud

Grand Mesa Operating Company
 Start Test Date: 2014/10/28
 Final Test Date: 2014/10/28

Parkinson-Gough #1-8
 Formation: Krebs - Atoka 4610'-4710'
 Job Number: F343

DST #8, Krebs - Atoka





DIAMOND TESTING

P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: PAG01 D578

ON LOCATION:	<u>06:30</u>
START RECORDERS:	<u>06:49</u>
STOP RECORDERS:	<u>14:46</u>

Company GRAND MESA OPERATING CO. Lease & Well No. PARKINSON-GOUGH #1-8
 Contractor DUKE DRILG REG # 4 Charge to G.M.O.C.
 Elevation 3089' 118 Formation KREBS-ATOKA Effective Pay _____ Ft. Ticket No. F343
 Date 10/28/14 Sec. 8 Twp. 17s Range 33W County SCOTT State KS
 Test Approved By KENT MATSON Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 8 Interval Tested from 4610 ft. to 4710 ft. Total Depth 4710 ft.
 Packer Depth 4605 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4610 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4588 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4676 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 58 (2 200) Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 6800 P.P.M. Drill Pipe Length 4577 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length 100 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 X 1 1/4 in. Surface Choke Size 36' PERF IN ANCHOR in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SURFACE BLOW, INC TO 1 3/4"
 2nd Open: SURFACE BLOW, INC TO 1 3/4"

Recovered 20' ft. of SOCM 5' OIL, 95' MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

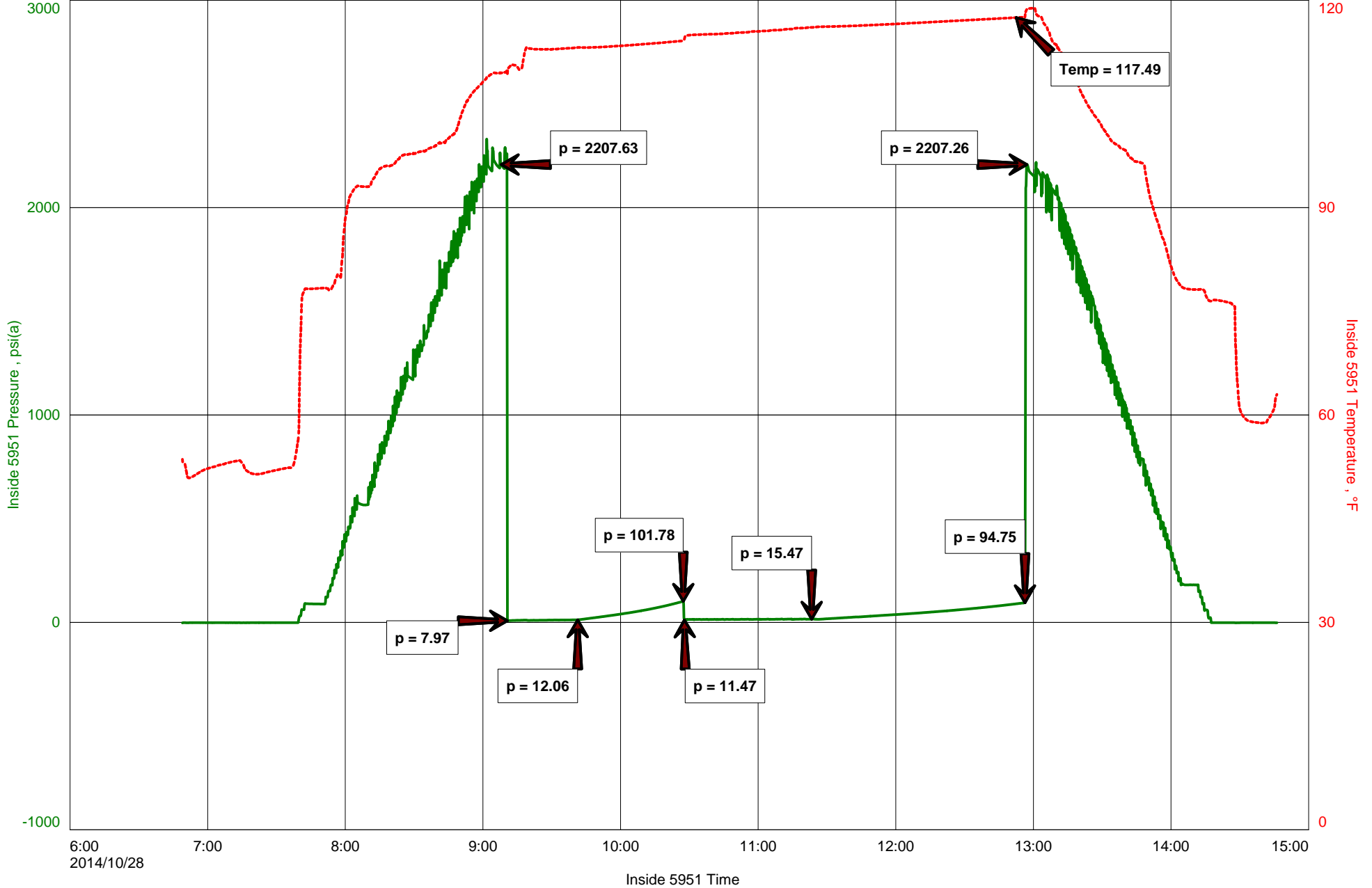
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	<u>JARS, S. JOINT</u>
	<u>35 MRT (SCOTT CET 7)</u>
	Total

Time Set Packer(s) 9:11 ^{A.M.} P.M. Time Started Off Bottom 12:56 ^{A.M.} P.M. Maximum Temperature 117 °F

Initial Hydrostatic Pressure..... (A) 2208 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 12 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 102 P.S.I.
 Final Flow Period..... Minutes 60 (E) 11 P.S.I. to (F) 15 P.S.I.
 Final Closed In Period..... Minutes 90 (G) 95 P.S.I. Thanks!
 Final Hydrostatic Pressure..... (H) 2207 P.S.I. Jake Fahrenbruch

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DST #8, Krebs - Atoka





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.

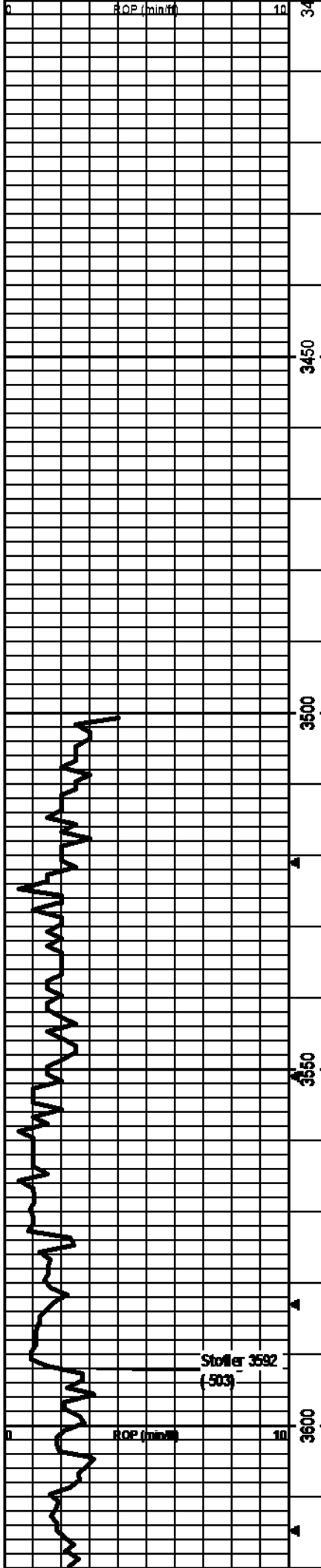
Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF 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.

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Morning Report Depth/Activity

10/17/2014, Spud.
 10/18, drill @ 530'.
 10/19, drill @ 2345'.
 10/20, drill @ 3290'.
 10/21, drill @ 3774'.
 10/22, DST #1 @ 4060'.
 10/23, drill @ 4153'.
 10/24, DST #3 Straddle Test 4292'-4322'; BOH @ 4339'.
 10/25, drill @ 4444'.
 10/26, drill @ 4498'.
 10/27, DST #7 @ 4590'.
 10/28, DST #8 @ 4710'.
 10/29, drill @ 4888'.

Mudco Check #1 @ 0'
 10/17/14, predrilling
 instructions.

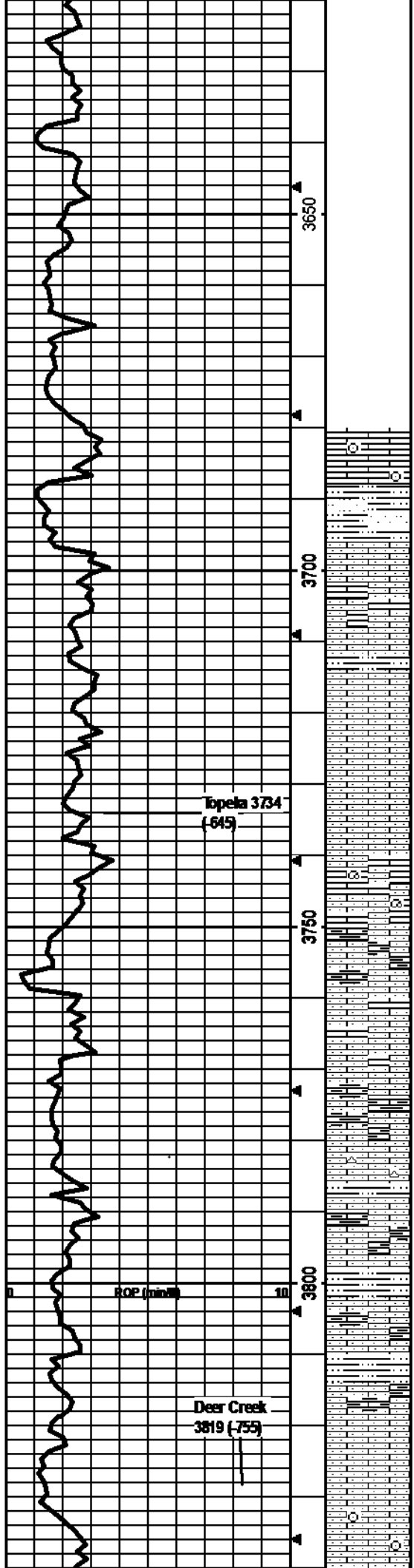
Mudco Check #2 @ 2234'
 10/19/14 06:45am
 wt vis pH chl
 9.7 31 7.0 72000
 Filt LCM
 nic 1

Mudco Check #3 @ 3157'
 10/20/14 06:45am
 wt vis pH chl
 9.8 30 7.0 36000
 Filt LCM
 nic tr

Anhydrite: Top @ 2410', Base @ 2429' (based on drill time).

Drill cutting samples at 10' intervals start at 3500'.

ROP Data begins @ 3500' on 10/20/2014



LS: wh/crm/lt-med gry, micro-med xtal, foss frags/crin, some chally, ppt-fn in-xtal por, no odor, ns.

SH: med-dk gry, silty/sndy, carb, firm, some brn/gry Sltstn/SS no odor, ns.

LS: lt-med gry, micro-med xtal, foss frags/brac, some silty/sndy, min frac por, no odor, ns.

LS: crm/lt-med gry, micro-med xtal, foss frags, silty, some ppt-fn in-xtal por, no odor, ns. Some SH: med-dk gry, silty, carb, firm, fissile

LS: lt-med gry, micro-med xtal, foss frags, vry silty/sndy, min ppt-fn in-xtal por, no odor, ns.

LS: crm/lt-med gry, micro-med xtal, foss frags, vry silty/sndy, some ppt-fn in-xtal por, no odor, ns.

LS: crm, micro-fn xtal, foss frags/gastro, some silty/sndy, some ppt-fn in-xtal por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, min foss frags, vry silty, some arg, min ppt in-xtal por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags, some vry silty, some chally, min ppt in-xtal por, no odor, ns.

LS: crm/lt-med gry/lt brn, micro-med xtal, foss frags, vry silty, vry arg, min ppt in-xtal por, no odor, ns.

LS: crm/lt gry/lt brn, micro-med xtal, foss frags, silty/sndy, wh/lt brn chert, some chally, no vis por, no odor, ns. Some SH: med-dk gry, silty, carb, soft-firm, fissile.

LS: lt brn/lt gry, micro-med xtal, foss frags, vry silty, arg, min ppt in-xtal por, no odor, ns. Some SH: med-dk gry, vry silty/sndy, carb, firm, fissile

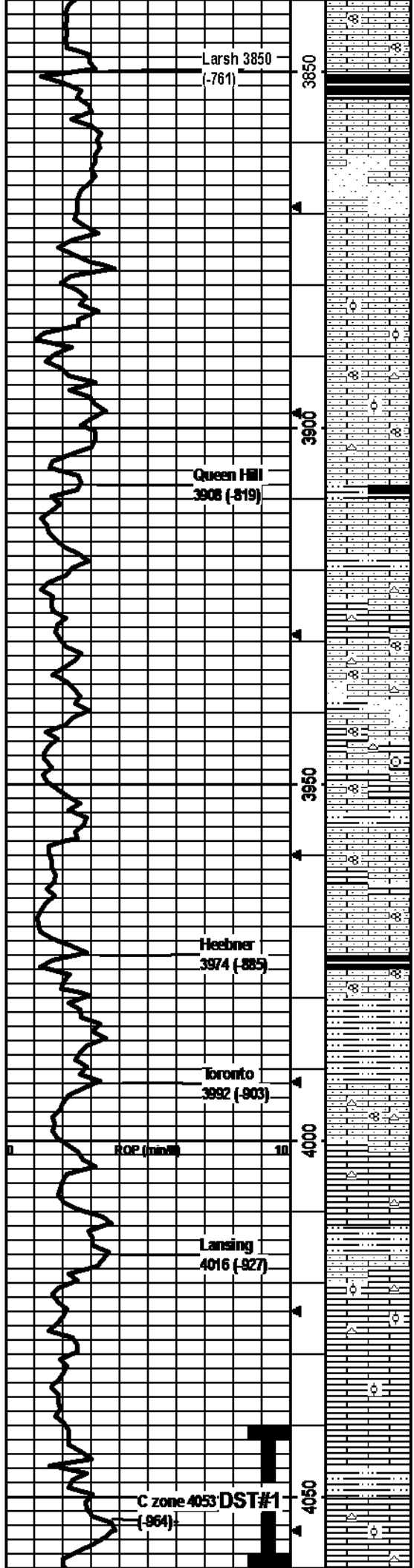
LS: lt brn/lt-med gry, micro-med xtal, foss frags, vry silty/sndy, some vry arg, some chally, some in-med in-xtal por, no odor, ns.

LS: lt brn/lt-med gry, micro-med xtal, vry silty/sndy, some arg, some chally, some ppt-fn in-xtal por, no odor, ns. SH: med-dk gry, silty, carb, firm fissile.

LS: crm/lt brn, micro-med xtal, foss frags, silty/sndy, some ppt-fn in-xtal por, no odor, ns.

LS: crm/lt brn/min lt gry, micro-fn xtal, foss frags/crin, silty/sndy, min ppt in-xtal por, no odor, ns.

Mudco Check #4 @ 3781'
 10/21/14 07:00am
 wt vis pH ch
 8.8 52 10.5 3600
 Fil: LCM
 7.2 2



LS: lt brn/lt gry, micro-med xtal, foss frags/fusln, silty/sndy, some ppt-fn in-xtal por, no odor, ns.

SH: dk gry/blk, slt carb, firm, fissile, no odor, ns.

LS: lt-med brn/lt gry, micro-med xtal, foss frags, silty/sndy, some chalky, some ppt in-xtal por, no odor, ns.

LS as above w/Sltstn/SS: lt gry, pred qtz, some gl'ac, carb, hard, friable, no odor, ns

LS: lt-med brn/gry, micro-fn xtal, some foss frags, silty/sndy, some ppt in-xtal por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags/ool, silty/sndy, some chalky, some ppt-fn in-xtal por, no odor, ns.

LS: crm/lt gry-brn, micro-fn xtal, foss frags/fusln/min ool, silty/sndy, some wht/lt brn chert, some ppt-fn in-xtal por, no odor, ns.

SH: med-dk gry, carb, silty, soft-firm, fissile, no odor, ns.

LS: crm/lt brn, micro-fn xtal, some foss frags, vry silty/sndy, some ppt in-xtal por, no odor, ns.

SH: med-dk gry, silty, carb, firm, fissile, no odor, ns.

LS: crm/lt brn, micro-fn xtal, foss frags, some silty/sndy, some wht/lt brn chert, some ppt-fn in-xtal por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, foss frags/fusln, silty/sndy, wht/lt gry chert, min ppt in-xtal/frac por, no odor, ns.

SH: lt-dk gry, vry silty/sndy/some lt gry Sltstn/SS, firm, fissile, no odor, ns.

LS: crm/lt gry-brn w/some gry inclus, fn-med xtal, foss frags/fusln/crn, some silty/sndy, some chalky, lt gry chert, ppt in-xtal por, 1 pce w/sfo, yel flor, no odor, ssfo.

LS: crm/lt gry, micro-med xtal, foss frags/fusln, some silty/sndy, some arg, some chalky, 8 pcs w/ppt-fn in-xtal por w/sfo, yel flor, no odor, ssfo. Some med-dk gry silty SH.

LS: lt-med brn w/some gry incs, micro-med xtal, foss frags/fusln, some silty/sndy, some chalky, ppt-fn in-xtal por, 1 pce w/sfo, yel flor, no odor, ssfo.

SH: dk gry/blk, slt carb, silty, firm, fissile, no odor, ns.

LS: lt-med brn/lt gry, micro-med xtal, foss frags/fusln, silty/sndy, some fn-med in-xtal por, no odor, ns.

SH: med-dk gry/blk/dk brn, carb, vry silty/sndy, soft-firm, fissile, no odor, ns.

LS: crm/lt-med brn/gry, micro-med xtal, foss frags/fusln, vry silty/sndy, wht/lt brn chert, some chalky, some ppt-fn in-xtal/frac por, no odor, ns.

LS: crm, micro-fn xtal, foss frags, min chalky, wht/crm chert, some frac por, no odor, ns.

SH: lt-med gry, carb, vry silty, firm-hard, fissile w/some friable, no odor, ns.

LS: crm/lt gry, micro-med xtal, foss frags/ool, some silty/sndy, some chalky, some crm chert, some ppt-fn in-xtal por, no odor, ns.

LS: crm, micro-fn xtal, foss frags/few ool, some chalky, min ppt in-xtal/frac por, no odor, ns.

LS: crm, micro-fn xtal, foss frags/min ool, some chalky, min ppt in-xtal por, no odor, ns.

SH: med-dk gry, vry silty/sndy, carb, some friable, firm, no odor, ns.

LS: crm/lt-med brn/gry, micro-med xtal, some foss frags w/few ool pcs, some gry chert, min ppt-med in-xtal por, no odor, ns. 60 min smpl had 15 pcs w/ppt-fn in-xtal por, w/sfo, cup odor, yel flor, gsfo.

CF 5 @ 4000'
30"/60"

Mudco Check #5 @ 4060'
10/22/14 06:45am
wt vis pH chl
9.2 64 9.5 4500
F# LCM
8.0 2

DST1) 4040-4060

Lansing C-zone
30303030

1st) Surface blow dead in 20 min, no BB.

2nd) No blow, no BB.

FP 4-8#

ISP 1063#

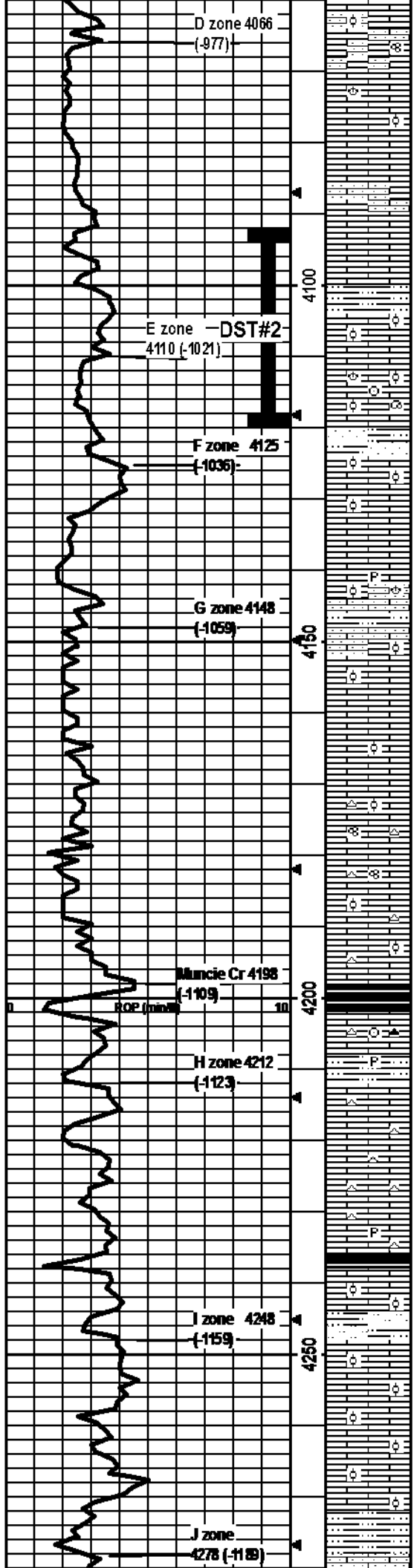
FFP 8-9#

FSP 1038#

HP 1917-1915#

Recrd: 5' oil spotted mud.

CF 5 @ 4060'



LS: crm/lt brn/lt gry, micro-fn xtal, foss frags/fusl n/ool, some silty/sndy, some chalky, some ppt in-xtal/frac por, no odor, ns.

LS: crm w/min lt brn, micro-fn xtal, foss frags/brac/ool, chalky, some ppt in-xtal por, no odor, 1 pce w/sfo w/ppt-fn in-xtal por, yel flor, ssfo.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags, chalky, some silty/sndy, some frac por, no odor, ns.

LS: crm/lt brn/lt-med gry, micro-med xtal, foss frags, some chalky, min frac por, no odor, ns.

SH: med-dk gry, vry silty, carb, soft-firm, fissile.
 LS: crm/lt-med brn/lt gry, micro-fn xtal, foss frags w/some ool pcs, min chalky, 18 pcs w/ppt-fn w/min med in-xtal/in-ool por w/sfo, yel flor/cut, gd cup odor, g sfo.

LS: crm/lt brn, micro-med xtal, foss frags/ool/crin/gas/brac, some chalky pcs, 23 pcs in 30 min and 32 in 60 min smpls w/ppt-fn in-xtal/in-ool por w/sfo, sty cup odor, yel flor/cut, g sfo.

SH: med-dk gry/blk, silt carb, silty, some pyritic, soft-firm, fissile. Some SS: lt gry, vfr, sr-w, friable, hard.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/ool, 12 pcs w/ppt-fn in-xtal/in-ool por, gd cup odor, yel flor, g sfo.

LS: crm, micro-fn xtal, foss frags/min dense ool, some wht chalky pcs, some frac por, 2 ool pcs in both 30 & 60 min smpls w/in-xtal por w/sfo, yel flor, no odor in 30 min silt odor in 60 min, ssfo.

LS: crm/lt brn, micro-fn xtal, some foss frags/brac/ool, some silty/sndy, some chalky, some pyritic, min frac por, no odor, ns.

SH: lt-dk gry/gry-brn/lt green-gry, vry silty, carb, soft-firm, fissile.

LS: crm/lt brn, micro-med xtal, foss frags/ool, some silty/sndy, some chalky, min ppt-fn in-xtal por, no odor, ns.

LS: wht/crm/lt gry, micro-fn w/some opaque crs xtal s w/lea, min foss frags/ool, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt brn/min lt gry, micro-fn xtal, min foss frags/ool/fusl, wht/crm/lt gry chert, min in-foss/frac por, 1 ool pce w/sfo, no odor, ssfo.

LS: as above w/min ppt-med por, 1 ool pce w/sfo poss from above, no odor, ssfo.

LS: crm/lt brn/lt gry, micro-med xtal, some foss frags/ool, some crm/lt gry chert, some frac por, no odor, ns.

SH: dk gry/blk, silty, silt carb, firm, fissile.

LS: lt-med brn/med-dk gry, micro-med xtal, foss frags/min, dk gry/lt brn/lt gry lt brn chert, 8 pcs w/ppt-fn in-xtal/frac por w/sfo, silt odor, yel flor/cut, sfo.

SH: lt-dk gry, silty, silt carb, silt pyritic, firm, fissile.

LS: crm/lt gry, micro-fn xtal, min foss frags, some chalky, some wht/lt gry chert, min ppt in-xtal por, 1 pce w/ppt-fn in-xtal por w/sfo, yel flor/cut, silt crust odor, ssfo.

LS: crm/lt gry, micro-med xtal, foss frags, some chalky, wht/lt gry chert, min ppt-med in-xtal por, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-med xtal, foss frags, wht/lt gry chert, some pyritic, min frac por, no odor, ns.

SH: blk, silty, silt carb, firm, fissile.

LS: crm/lt-med brn/med-dk gry, micro-med xtal, foss frags/ool, some frac por, no odor, ns.

SH: lt-med gry, vry silty, carb, soft-firm, some siltstr: lt gry, pred qtz, arg, friable, no odor, ns.

LS: crm/lt-med brn/gry, micro-med xtal, foss frags/ool, some frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal, foss frags/ool, some chalky, no odor, ns.

SH: med-dk gry/blk/lt green-gry, silty, some carb, soft-firm, fissile, no odor, ns.

30"/60"

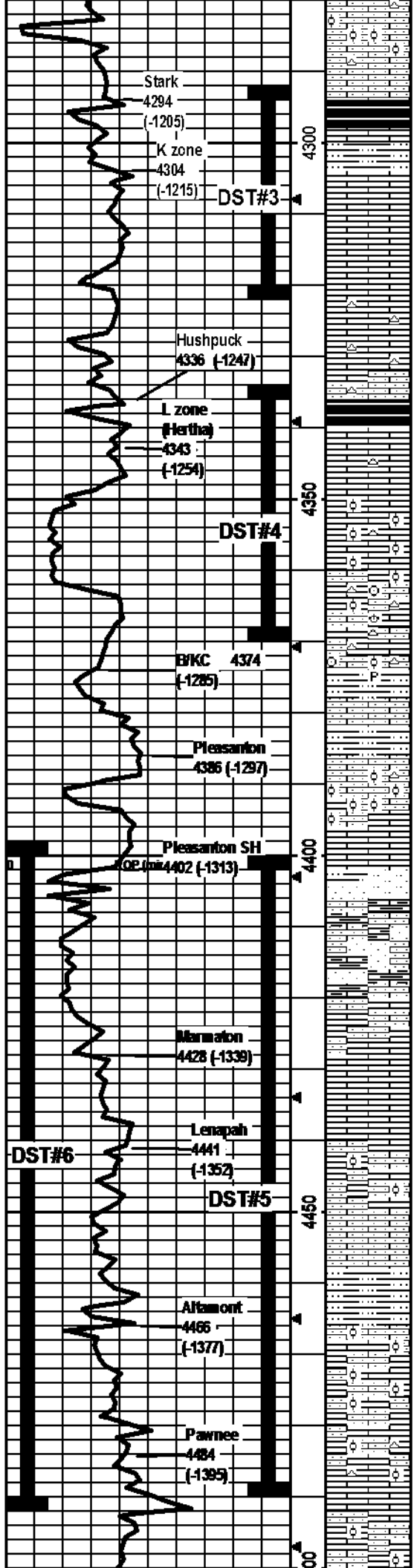
DST2) 4092-4120
Lansing E-zone
 30/4-5/6 0/9 0
 1st) Surface blow increased to 3.5", no BB.
 2nd) Surface blow increased to 6.25", no BB.
 IF P 7-27#
 ISIP 1052#
 FFP 29-69#
 F SIP 1044#
 HP 2020-2015#
 Recvd: 125' SMCW.

CF S @ 4120'
 30"/60"

CF S @ 4140'
 30"/60"

Mudco Check #6 @ 4162'
 10/23/14 07:20am
 wt vis pH ch
 9.1 57 9.0 7000
 Fil LCM
 8.8 1

CF S @ 4230'
 30"/60"



LS: wht/crm/lt-med brn/lt gry, mi cro-med xtal, foss frags/abund ool pcs, some silty/sndy, some chalky, min wht chert, med-crs oo-castic/fn-med in-xtal por, no odor, ns.

SH: dk gry/blk, slit carb, firm, fissile.
LS: lt brn, micro-fn xtal, some foss frags, 1 pce w/ppt-med in-xtal por w/sfo, yel flor, slit crush odor, ssfo.

SH: lt-med gry/lt green-gry, v ry silty, carb, slit pyritic, soft-firm, fissile.
LS: wht/crm/lt gry, micro-fn xtal, some foss frags, min chalky, 20 pcs w/ppt-med in-xtal por w/sfo, yel flor, slit odor, gsfo.

LS: crm/lt brn, micro-fn xtal, some foss frags, some chalky, 9 pcs w/ppt-med in-xtal por w/sfo, yel flor, slit odor, sfo.

LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags, some chalky, wht/crm/lt brn chert, 4 pcs w/ppt-med in-xtal por w/sfo, yel flor, crush odor, sfo.

LS: crm/lt brn/lt gry, micro-fn xtal, some foss frags, silty/sndy, wht/crm/lt brn chert, 8 pcs in 30 min snpl w/ppt-med in-xtal por w/sfo, yel flor, crush odor, sfo.

SH: blk, carb, firm, fissile.
LS: crm/lt-med brn, micro-fn xtal, foss frags, some chalky, min wht chert, 15 pcs w/ppt-med in-xtal por w/sfo, dul yel flor/cut, gd odor, sfo.

LS: crm/lt-med brn/lt-med gry, micro-med xtal, foss frags/ool, abund chalky pcs, min wht chert, 7 pcs w/ppt-med in-xtal/fin-ool por, dul yel flor, slit cup odor, sfo.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/in frac/ool, some silty/sndy, some chalky, wht/lt brn/lt gry chert, ppt-med in-xtal/in-ool por and some med-crs oo-castic por, 1 ool pcs in 30 min snpl w/ppt-med in-ool por w/sfo, slit crush odor, ssfo.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/in min ool pcs, some silty/sndy, some chalky, min ppt-med in-xtal por, 2 pcs w/ppt-med in-xtal por w/sfo, dul yel flor, no odor, ssfo.
SH: lt-dk gry/red brn, slit carb, silty, slit pyritic, soft-firm, fissile

SH: lt-med gry, v ry silty, carb, soft-firm.
LS: crm/lt-med brn, micro-fn xtal, foss frags/some ool pcs, some silty/sndy, some lt gry chert, some frac por, no odor, ns.

LS: wht/crm/lt gry/lt brn, micro-fn xtal w/some med 2ndry xtal, foss frags/abund ool, some silty/sndy, min ppt-med in-xtal/in-ool oo-castic por, 1 ool pcs w/ppt-fn in-ool por w/sfo, slit crush odor, ssfo.

SH: lt-med gry, v ry silty/sndy, carb, soft-hard; Sltstn/SS: lt gry/lt brn, vf-4, pred qtz, carb, hard, friable, no odor, ns.
LS: lt-med brn/lt gry, micro-med, foss frags, v ry silty/sndy, arg, min ppt-fn in-xtal por, 1 pcs w/sfo, dul yel flor, no odor, ssfo.

LS/SHSS mix as above, 1 pce of LS w/ppt in-xtal por w/sfo, crush odor, ssfo.
LS: crm/lt brn, micro-fn xtal, foss frags, some silty/sndy, some chalky, 36 pcs w/ppt-fn in-xtal por w/sfo, dul yel flor, slit crush odor, gsfo.

LS: crm/lt brn, micro-fn xtal, some foss frags, some chalky, 29 pcs w/ppt in-xtal/frac por w/sfo, dul yel flor, slit crush odor, gsfo. Some SH: lt-med gry/red brn, v ry silty, slit carb, firm, fissile.

LS: crm/lt-med brn/lt gry, micro-med xtal, foss frags/ool, some chalky, some silty/sndy, 7 pcs w/ppt-fn in-xtal/frac por w/sfo, dul yel flor, slit crush odor, sfo.

LS: crm/lt brn/lt gry, micro-fn xtal, some foss frags, v ry silty/sndy, some frac por, no odor, ns. Some lt-med gry v ry silty firm SH.

SH: lt-med gry/red brn, silty, carb, soft
LS: crm/lt brn, micro-med xtal, foss frags/ool, some silty/sndy, 22 pcs w/ppt-med in-xtal por w/sfo or staining, gd odor, yel flor, gsfo.

LS: crm/lt brn, micro-med xtal, foss frags/ool some silty/sndy, 2 pcs w/ppt-med in-xtal por w/sfo/staining, slit odor, yel flor, sfo.

LS: crm/lt gry/lt brn, micro-med xtal, foss frags/some ool pcs, some silty/sndy, lt gry chert, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags/some dense ool, min chalky, some silty/sndy, min ppt-fn in-xtal/frac por, no odor, ns.

CF 5 @ 4290'
30"/60"

DST3) 4292-4322
Lansing K-zone
Straddle Test;
BOH @ 4339

30/15/15/15
1st) Surface blow increased to 1/4" in 10 min and died in 26 min; no BB.
2nd) No blow; no BB.
IFP 5-9#
ISIP 871#
FFP 9-10#
FSP 815#
HP 2062-2057#
Recvd: 6' mud.

CF 5 @ 4339'
30"/60"

DST4) 4334-4371
Lansing L-zone

30453090
1st) Strong blow @ BOB in 2 min; no BB.
2nd) Strong blow @ BOB in 2.75 min; no BB.
FFP 97-617#
ISIP 1124#
FFP 598-901#
FSP 1127#
HP 2075-2071#
Recrd: 1980' water.

CF 5 @ 4371'
30"/60"

Mudco Check #7 @ 4370'
10/24/14 09:00am
wt vis pH chl
9.2 54 9.0 7400
Fit: LCM
8.8 1

CF 5 @ 4400'
30"/60"

Mudco Check #8 @ 4440'
10/25/14 07:00am
wt vis pH chl
9.1 50 10.0 8000
Fit: LCM
8.8 1

CF 5 @ 4440'
30"/60"

CF 5 @ 4450'
30"/60"

CF 5 @ 4460'
30"/60"

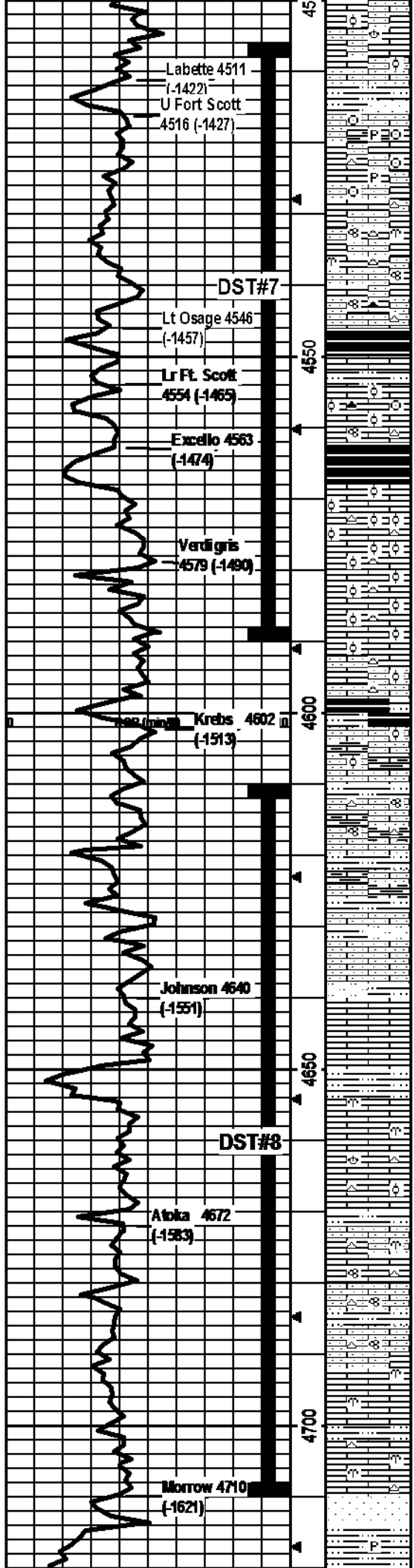
CF 5 @ 4470'
30"/60"

CF 5 @ 4480'
30"/60"

CF 5 @ 4490'
30"/60"

Mudco Check #9 @ 4497'
10/26/14 07:00am
wt vis pH chl
9.1 65 9.5 9000
Fit: LCM
9.6 1

DST5) 4400-4490



LS: crm/lt-med brn, micro-med xtal, foss frags/brac/dense ool, some vry silty/sndy, some e chalky, min ppt in-xtal/frac por, 1 pce w/ppt in-xtal por w/sfo, no odor, ssfo.

SH: lt-dk gry/bk, some vry silty, carb, firm fissile; some SS: lt gry, f-m, sr-wr, pred qtz, hard, friable; no odor, ns.

LS: lt-med brn, micro-med xtal w/some crs 2ndry xtal, foss frags/crn, some silty/sndy, some arg, min pyritic, some frac por, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-med xtal, foss frags/crn, some silty/sndy, some chalky, min pyritic, wht/lt brn/lt gry chert, some frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal, foss frags/bryzn/fusln, some e silty/sndy, some chalky, wht/lt gry/lt brn chert, 15 pcs w/ppt-fm in-xtal/in-foss por, yel flor, gd odor, gsfo.

LS: crm/lt brn/lt gry-brn, micro-med xtal w/some 2ndry xtal, foss frags/fusln, some silty/sndy, crm/lt gry/lt brn chert, some frac por, 3 pcs w/ppt-fm in-xtal/in-foss por w/sfo, yel flor, no odor, sfo.

SH: dk gry/bk, carb, silty, firm-vry firm fissile.

SH: med-dk gry, silty, carb, firm, fissile.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/fusln in ool, some chalky, crm/lt dk brn chert, 17 ool pcs w/ppt-med in-xtal-in-ool por w/sfo, yel flor/cut, st odor, gsfo.

SH: dk gry/bk, silt carb, firm-hard, fissile. LS from above: w/14 ool pcs w/sfo, gd odor.

LS: crm/lt-med brn/min lt gry, micro-med xtal, foss frags/ool, some chalky, some e wht/lt-med brn chert, 21 pcs w/ppt-fm in-xtal-in-ool por w/sfo or staining, yel flor/cut, gd odor, gsfo.

LS: as above, w/lighter ppt in-xtal-in-ool por, 15 pcs w/sfo or staining, gd odor, gsfo.

LS: crm/lt-med brn/lt gry, micro-in xtal, foss frags/some ool, some chalky, some e silty/sndy, lt gry/brn chert, 4 pcs w/ppt-fm in-xtal-in-ool por w/sfo, dul yel flor, no odor, sfo.

SH: lt-dk gry/bk, some silty, silt carb, fissile.

LS: crm/lt-med brn/lt gry, micro-med xtal, foss frags/few ool pcs, some vry silty/sndy, arg, some chalky, frac por, no odor, ns.

LS: crm/lt-med brn/lt-dk gry, foss frags/fusln, some vry silty/sndy, arg, some chalky, some brn chert, some frac por, 1 pcs w/ppt-fm in-xtal por w/sfo, dul yel flor, no odor, sfo. SH: lt-med gry/lt gry-brn, vry silty, carb, soft-firm.

LS: lt-med brn/lt gry-brn, micro-in xtal, foss frags, silty/sndy, some arg, 4 pcs w/ppt-fm in-xtal por w/sfo or staining, dul yel flor, no odor, sfo. SH: brn/lt gry-brn/lt gry, silty, carb, soft-firm.

LS: crm/lt-med brn/lt gry-brn, micro-med xtal, foss frags, some silty/sndy, some frac por, no odor, ns. SH: lt-dk gry, vry silty, carb, soft-firm, some silt in: lt gry, pred qtz, no odor, ns.

LS: crm/lt-med brn, micro-in xtal, foss frags, some chalky, 24 pcs w/ppt-med in-xtal/frac por w/sfo or staining, dul yel flor, gd odor, gsfo.

SH: lt-dk gry, silt carb, silty, firm, fissile.

LS: crm/lt-med brn, micro-med xtal w/some crs 2ndry xtal, foss frags/bryzn, approx 10-15% of smpl w/ppt-med in-xtal por w/sfo, yel flor, sty odor, vgsfo.

LS: lt-med brn, micro-med xtal, foss frags/brac/some ool, crm/lt brn chert, 23 pcs w/ppt-med in-xtal por w/sfo, yel flor, gd odor, gsfo.

SH: lt-dk gry, carb, vry silty/sndy, firm, fissile.

LS: crm/lt-med brn, micro-med xtal, foss frags/bryzn/fusln, some silty, crm/lt brn chert, 19 pcs w/ppt-med in-xtal por w/sfo, yel flor, gd odor, gsfo.

LS: wht/crm/lt brn, micro-in xtal, foss frags/bryzn, some silty, some chalky, lt-dk brn chert, approx 10-15% of smpl w/ppt-med in-xtal por w/sfo, yel flor, sty odor, gsfo. SH: med-dk gry/lt green-gry, carb, firm.

LS: crm/lt brn, micro-in xtal, foss frags/bryzn, 27 pcs w/ppt-fm w/min med in-xtal por w/sfo, yel flor, sty odor, gsfo. Flood of med-dk gry/red brn silty SH.

LS: crm/lt brn, micro-in xtal, foss frags/bryzn, some e chalky, lt brn chert, 26 pcs w/ppt-med in-xtal-in-foss por, yel flor, sty odor, gsfo.

SH: lt-dk gry/bk/dk brn, some vry silty, carb, some pyritic, soft-hard; SS: wht/lt gry/opaque, v-f, sr-wr, soft-hard, friable, ns. Some LS w/sfo from above.

Pleasanton SH thru Pawnee
 304/560/90
 1st) Blow @ BOB in 6 min; BB increased to 8".
 2nd) Blow @ BOB in 7 min; BB @ BOB in 60 min.
 IFP 23-165#
 ISIP 1044#
 FFP 172-330#
 FSP 823#
 HP 2152-2145#
 Recvd: 60' Oil, 250' GCMO (45% O, 40% M, 15% G), 500' GIP.
 CF 5 @ 4540'
 30"/60"

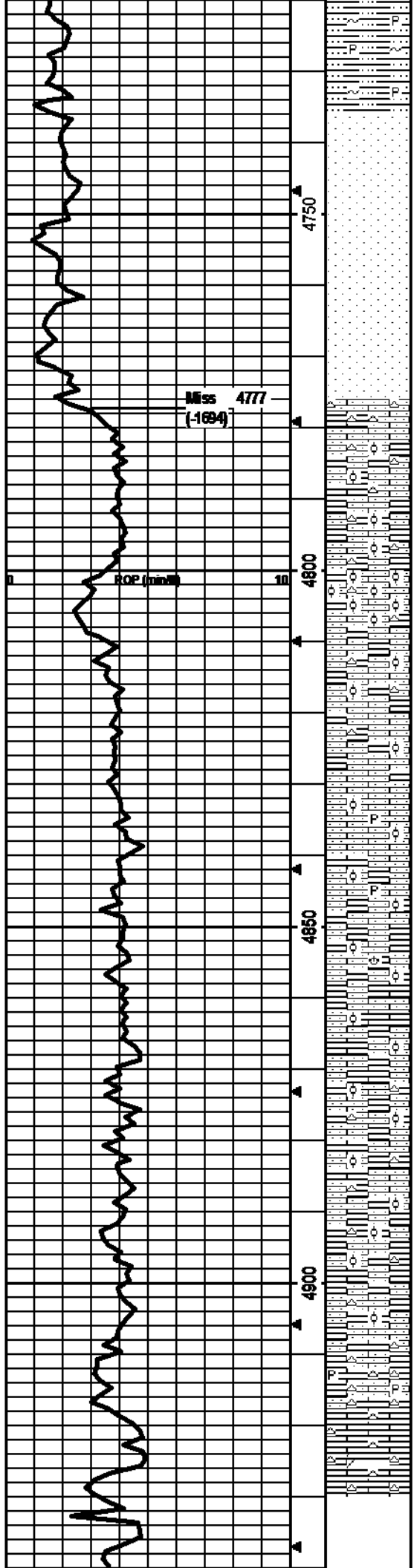
DST6) 4398-4492 Pleasanton SH thru Pawnee Straddle Test BOH @ 4540
 304/560/90
 1st) Blow @ BOB in 9.5 min; BB increased to 1".
 2nd) Blow @ BOB in 11 min; BB @ increased to 8.5".
 IFP 13-121#
 ISIP 764#
 FFP 126-234#
 FSP 620#
 HP 2144-2126#
 Recrd: 180' Oil, 400' GCMO (60% O, 25% M, 15% G), 190' GIP.
 CF 5 @ 4590'
 30"/60"

Mudco Check #10 @ 4590'
 10/27/14 08:50am
 wt vis pH chl
 9.0 63 10.0 6500
 Fil: LCM
 8.8 1

DST7) 4506-4590 Upper Ft Scott thru Verdigris
 301/515/15
 1st) Surface blow increased to 1/2" in 10 min and died; no BB.
 2nd) No blow; no BB.
 IFP 7-9#
 ISIP 103#
 FFP 8-9#
 FSP 70#
 HP 2136-2134#
 Recrd: 5' OSM.

DST8) 4610-4710 Krebs thru Atoka
 304/560/90
 1st) Surface blow increased to 1.75"; no BB.
 2nd) Surface blow increased to 1.75"; no BB.
 IFP 8-12#
 ISIP 102#
 FFP 11-45#
 FSP 95#
 HP 2208-2207#
 Recrd: 20' SOCM (5% O, 95% M.
 CF 5 @ 4710'
 30"/60"

Mudco Check #11 @ 4710'
 10/28/14 07:50am
 wt vis pH chl
 9.0 75 10.0 6500



LS: lt-dk gry/brn/lt green-gry/lt mustard yel, some vry silty, glauc, pyritic, some carb, soft-firm, fissile, some SS as above, no odor, ns.

SH: as above, no odor, ns.

SS: wht/lt gry, opaque v-f, sr-wr, pred qtz, carb matrix, hard, friable, in-par por, no odor, ns.

SS: wht/lt gry/lt blue-green, f-vf, wr, pred qtz, glauc, some carb matrix/some arg, hard, most friable, in-par por, no odor, ns.

SS: as above, no odor, ns.

SS: wht/lt blue-green, f-m, sr-wr, pred qtz, min glauc, some vry arg, carb matrix, hard, friable, some in-par por; no odor, ns.

SS: same as above, no odor, ns.

LS: wht/crm/lt brn, micro-fn xtal, some vry sndy, some vry chalky, abund wht/lt brn/lt orange chert, 7 lt brn micro-xtal pcs w/ppt-crs in-xtal por w/slo, dul yel flor, no odor, sfo.

LS: wht/crm/lt brn/lt gry, micro-fn xtal, some dense ool pcs, some vry sndy, some vry chalky, lt-med brn/lt orange chert, some frac por; 2 pcs whn-crs in-xtal por w/slo, dul yel flor, no odor, sfo.

LS: crm/lt gry/lt gry-brn, micro-fn xtal, some dense ool pcs, some vry sndy, some chalky, some crm/lt brn/lt orange chert, some frac por; 2 pcs whn-med in-xtal por w/slo (poss from above), no odor, ns.

LS: wht/crm/lt brn, micro-med xtal, foss frags/abund dense ool pcs, some vry sndy, some vry chalky, abund wht chalky pcs, wht/crm chert, some frac por, no odor, ns.

LS: wht/crm/lt brn, micro-med xtal, some dense ool pcs, some vry sndy, some vry chalky, wht/lt brn/lt orange chert, min ppt-fn in-xtal/frac por, no odor, ns.

LS: crm/lt gry-brn, micro-med xtal, min ool, some vry sndy, some vry chalky, lt gry opaque chert, frac por, no odor, ns.

LS: wht/crm, micro-med xtal, ool, vry sndy, vry chalky, min pyritic, min frac por, no odor, ns.

LS: wht/crm/lt brn, micro-med xtal, ool, some vry sndy, some vry chalky, min frac por, no odor, ns.

LS: wht/crm/lt brn, micro-med xtal, some foss frags/frac/ool, some vry sndy, some chalky, some frac por; no odor, ns.

LS: crm/lt brn, micro-med xtal, min foss frags/ool, some vry sndy, min chalky, min frac por; no odor, ns.

LS: crm/lt-med brn w/min dk brn, micro-med xtal, min foss frags/ool, some sndy, min chalky, some crm/lt gry chert, min frac por; no odor, ns.

LS: crm/lt-med brn w/min dk brn, micro-fn xtal, min foss frags/some ool, some sndy, some crm/lt gry chert, min frac por; 1 pce whn staining in frac seam, yel flor; no cut, no odor, nsfo.

LS: crm/lt-med brn, micro-fn xtal, some ool, some sndy, some chalky, wht/lt gry chert, min frac por, no odor, ns.

LS: wht/crm/lt-med brn/lt gry brn, micro-fn xtal, min ool, min sndy, some wht/lt gry chert, min frac por, no odor, ns.

LS: crm/lt gry/lt brn, micro-fn xtal, some sndy, some pyritic, abund wht/crm/lt gry/lt brn chert, frac por, no odor, ns.

LS: lt gry-brn/lt-med brn, micro-med xtal, min abund ool pcs, grainy, some chalky, abund wht/lt gry chert, few pcs of wht-gry/lt brn Dolo, some frac por; 2 ool pcs w/ppt-fn in-xtal-in-oo por w/slo, dul yel flor, no odor, sfo.

9.0 58 10.0 6800
Filt LCM
8.8 2

CF S @ 4730'
30"60"

CF S @ 4750'
30"60"

CF S @ 4800'
30"60"

CF S @ 4912'
30"60"

