



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1223464
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: _____

1223464

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	RUGAN FARMS 2-24
Doc ID	1223464

Tops

Name	Top	Datum
ANHYDRITE	783	+1109
BASE ANHYDRITE	808	+1084
HEEBNER	3135	-1243
TORONTO	3147	-1255
DOUGLAS	3163	-1261
BROWN LIME	3242	-1350
LANSING	3252	-1360
BASE KANSAS CITY	3465	-1573
REWORK ARBUCKLE	3500	-1608
SOLID ARBUCKLE	3508	-1616

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Rugan Farms #2-24
Formation	Lansing "A-C" 3245'-3300'
Surface Location	Sec 24-20s-14w-Barton Co-KS
Field	
Company Name	LD Drilling
Well Operator	LD Drilling
Well Type	Vertical
Test Type	Conv. Bottom-Holw
Test Purpose (AEUB)	Initial Test
Gauge Name	Inside 5951
Start Test Date	2014/08/13
Start Test Time	05:55:00
Final Test Date	2014/08/13
Final Test Time	11:43:00
Job Number	F296
Contact	LD Davis
Site Contact	Kurt Talbott
Qualified By	Kurt Talbott

TEST RESULTS

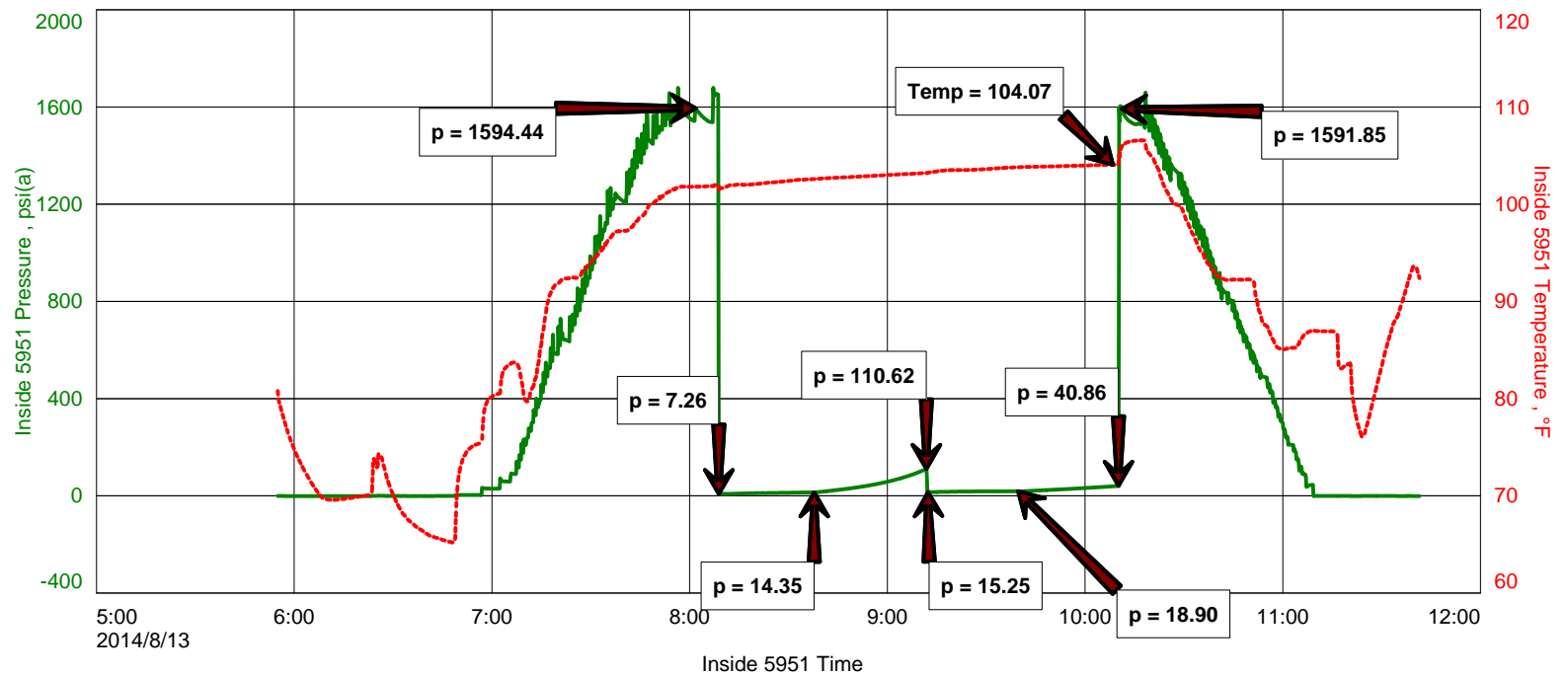
Initial flow started with a surface blow that built to .5" in 10 minutes, blow died off.
Final flow started with a surface blow that died in 1 minute.

Recovered 10' of Drilling Mud, 100% mud

LD Drilling
Start Test Date: 2014/08/13
Final Test Date: 2014/08/13

Rugan Farms #2-24
Formation: Lansing "A-C" 3245'-3300'
Job Number: F296

DST #1





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: RUGFAZDST1

ON LOCATION: 04:15
 START RECORDERS: 05:55
 STOP RECORDERS: 11:43

Company LD DRILLING, INC. Lease & Well No. RUGAN FARMS #2-24
 Contractor PETROMARK DRILLING REG #2 Charge to LD DRILLING, INC
 Elevation 1892' KB Formation LANSING "A-C" Effective Pay _____ Ft. Ticket No. F296
 Date 8-13-14 Sec. 24 Twp. 20 S Range 14 W County BARTON State KANSAS
 Test Approved By KURT TALBOTT Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 3245' ft. to 3300' ft. Total Depth 3300' ft.
 Packer Depth 3240' ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3245' ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3223' ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3246' ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 47 Drill Collar Length 125' ft. I.D. 2 1/4 in.
 Weight 8.7 Water Loss 8.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 8000 P.P.M. Drill Pipe Length 3095' 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 55' ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2" XH in. Surface Choke Size _____ in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SURFACE BLOW, IN TO 1/2" IN 10 MIN, BLOW DIED OFF.
 2nd Open: SURFACE BLOW DEAD IN 1 MINUTE.

Recovered 10 ft. of DRLG MUD 100' MUD
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Price Job _____
 Other Charges _____
 Remarks: _____
 Total _____

Time Set Packer(s) 8:10 AM Time Started Off Bottom 10:10 AM Maximum Temperature 104F

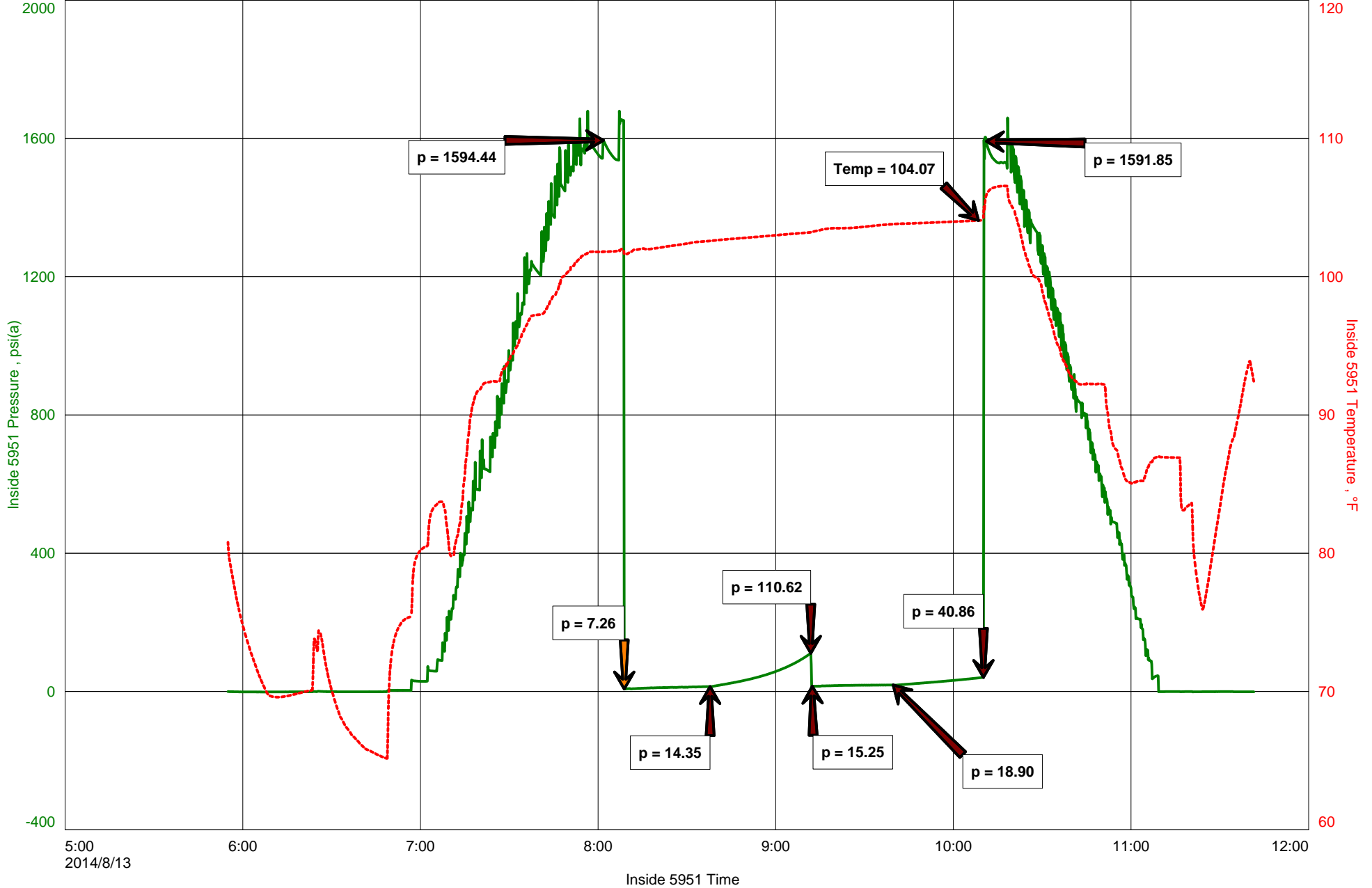
Initial Hydrostatic Pressure..... (A) 1594 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 14 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 111 P.S.I.
 Final Flow Period..... Minutes 30 (E) 15 P.S.I. to (F) 19 P.S.I.
 Final Closed In Period..... Minutes 30 (G) 41 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1592 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.

LD Drilling
Start Test Date: 2014/08/13
Final Test Date: 2014/08/13

Rugan Farms #2-24
Formation: Lansing "A-C" 3245'-3300'
Job Number: F296

Rugan Farms #2-24





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: RUGFA2DST1

TIME ON: 04:15
TIME OFF: 11:43

Company LD Drilling, Inc. Lease & Well No. Rugan Farms #2-24
Contractor Petromark Drilling Rig #2 Charge to LD Drilling, Inc
Elevation 1892'KB Formation Lansing "A-C" Effective Pay _____ Ft. Ticket No. F296
Date 8-13-14 Sec. 24 Twp. 20 S Range 14 W County Barton State KANSAS
Test Approved By Kurt Talbott Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3245 ft. to 3300 ft. Total Depth 3300 ft.
Packer Depth 3240 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3245 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3223 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3246 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 47 Drill Collar Length 125 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 8,000 P.P.M. Drill Pipe Length 3,095 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? NA Reversed Out NA Anchor Length 55 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 21' PERF IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to .5" in 10 min. Blow died off.
2nd Open: Surface blow, dead in 1 minute.

Recovered <u>10</u> ft. of <u>Drilling Mud</u>	<u>100% mud</u>
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 8:10 AM A.M. P.M. Time Started Off Bottom 10:10 AM A.M. P.M. Maximum Temperature 104F

Initial Hydrostatic Pressure..... (A) 1594 P.S.I.
Initial Flow Period..... Minutes 30 (B) 7 P.S.I. to (C) 14 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 111 P.S.I.
Final Flow Period..... Minutes 30 (E) 15 P.S.I. to (F) 19 P.S.I.
Final Closed In Period..... Minutes 30 (G) 41 P.S.I.
Final Hydrostatic Pressure..... (H) 1592 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	Rugan Farms #2-24
Formation	Lansing "E-G" 3304'-3350'
Surface Location	Sec 24-20s-14w-Barton Co-KS
Field	
Company Name	LD Drilling
Well Operator	LD Drilling
Well Type	Vertical
Test Type	Conv. Bottom-Hole
Test Purpose (AEUB)	Initial Test
Gauge Name	Inside 5951
Start Test Date	2014/08/13
Start Test Time	23:07:00
Final Test Date	2014/08/14
Final Test Time	06:40:00
Job Number	F297
Contact	LD Davis
Site Contact	Kurt Talbott
Qualified By	Kurt Talbott

TEST RESULTS

Initial flow started with a surface blow, increasing to a 6" blow.
 Final flow started with a surface blow, increasing to a 6.5" blow.

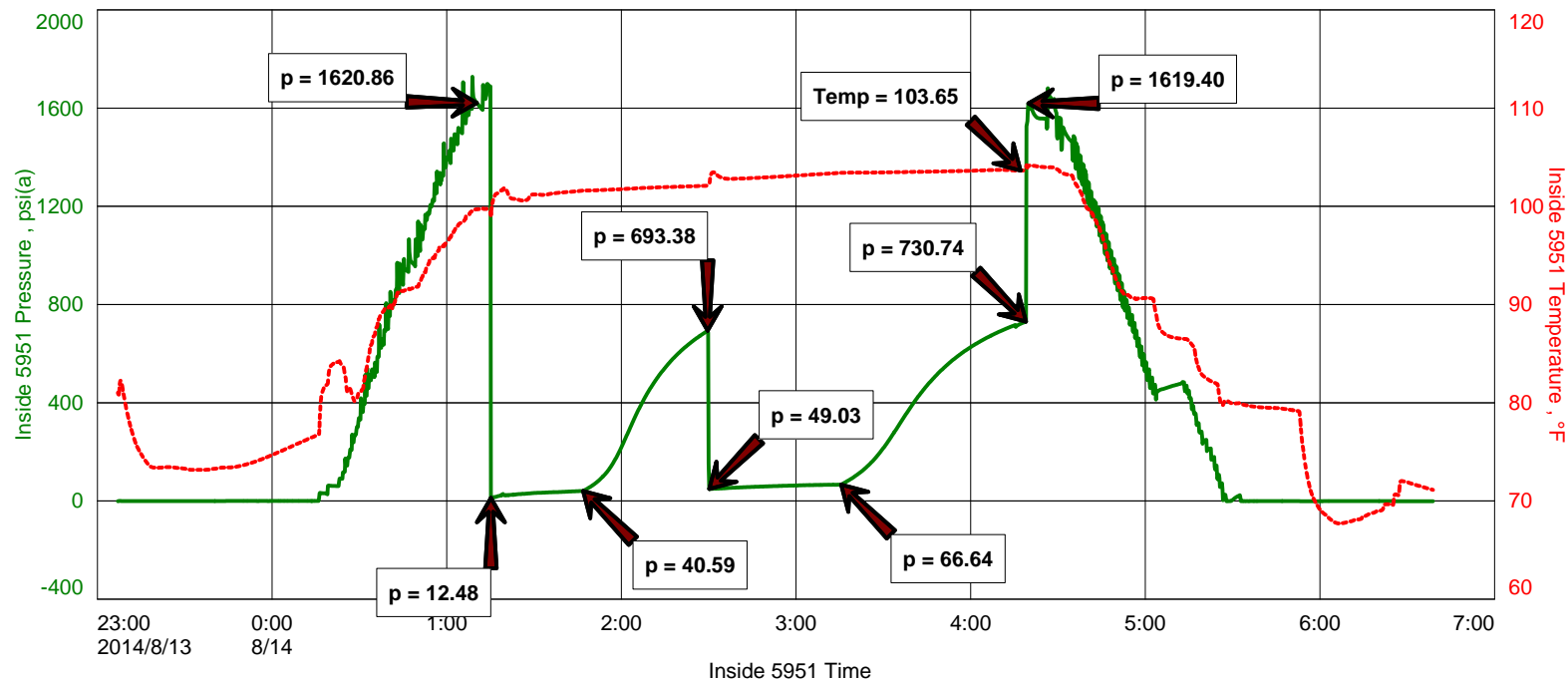
Recovered 125' TOTAL FLUID

- 80' OWC 10%o, 10%w, 80%r
- 45' OSMW 2%o, 50%w, 48%r
- Chlorides: 49,000 PPM
- RW: .17 ohm @ 58 Deg F
- PH: 7.0

LD Drilling
 Start Test Date: 2014/08/13
 Final Test Date: 2014/08/14

Rugan Farms #2-24
 Formation: Lansing "E-G" 3304'-3350'
 Job Number: F297

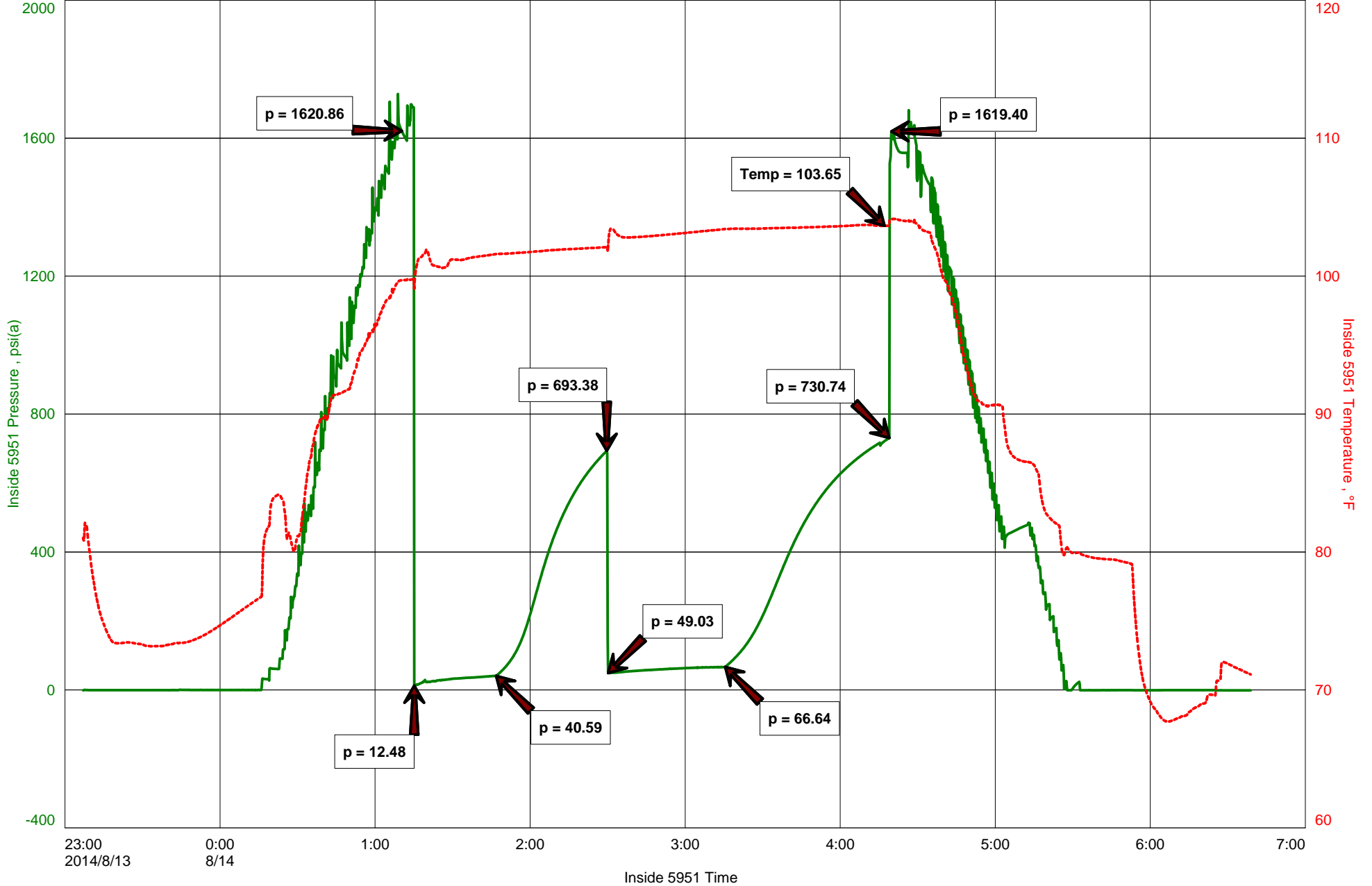
DST #2



LD Drilling
Start Test Date: 2014/08/13
Final Test Date: 2014/08/14

Rugan Farms #2-24
Formation: Lansing "E-G" 3304'-3350'
Job Number: F297

Rugan Farms #2-24





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

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

DRILL-STEM TEST TICKET
FILE: RUGAN FARMS #2-24

ON LOCATION: 11:05 8-13
START RECORDERS: 11:07 PM 8-13
STOP RECORDERS: 6:40 AM 8-14

Company LD DRILLING Lease & Well No. RUGAN FARMS #2-24
Contractor PETROMARK #2 Charge to LD DRILLING
Elevation 1892' KB Formation LANSING "E-G" Effective Pay _____ Ft. Ticket No. F2917
Date 8-14-14 Sec. 24 Twp. 20S Range 14W County BARTON State KANSAS
Test Approved By KURT TALBOT Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 2 Interval Tested from 3304 ft. to 3350 ft. Total Depth 3350 ft.
Packer Depth 3299 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3304 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3290 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3310 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEMICAL Viscosity 53 Drill Collar Length 125 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 10.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 10000 P.P.M. Drill Pipe Length 3154 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? NO Reversed Out NO Anchor Length 46 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, INCREASED TO 6"
2nd Open: SURFACE BLOW, INCREASED TO 6 1/2"

Recovered 80 ft. of OMCW 10"o, 10"w, 80"m
Recovered 45 ft. of OSMW 2"o, 50"w, 48"m
Recovered _____ ft. of _____

Recovered _____ ft. of TOTAL FLUID: 125'
Recovered _____ ft. of TOOL SAMPLE: OMCW
Recovered _____ ft. of 5"o, 20"m, 75"w
Remarks: BW: .17-2 @ 58°F
PH: 7.0
CAL: 49,000 PPM
Price Job _____
Other Charges _____
Total _____

Time Set Packer(s) 1:15 ^{AM} _{PM} Time Started Off Bottom 4:15 ^{AM} _{PM} Maximum Temperature 104°F

Initial Hydrostatic Pressure..... (A) 1620 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 41 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 693 P.S.I.
Final Flow Period..... Minutes 45 (E) 49 P.S.I. to (F) 67 P.S.I.
Final Closed In Period..... Minutes 60 (G) 731 P.S.I. THANKS!
Final Hydrostatic Pressure..... (H) 1619 P.S.I. Kurt Talbot

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Rugan Farms #2-24
Formation	Lansing "H-J" 3361'-3425'
Surface Location	Sec 24-20s-14w-Barton Co-KS
Field	
Company Name	LD Drilling
Well Operator	LD Drilling
Well Type	Vertical
Test Type	Conv. Bottom-Hole
Test Purpose (AEUB)	Initial Test
Gauge Name	Inside 5951
Start Test Date	2014/08/14
Start Test Time	17:11:00
Final Test Date	2014/08/14
Final Test Time	23:32:00
Job Number	F298
Contact	LD Davis
Site Contact	Kurt Talbott
Qualified By	Kurt Talbott

TEST RESULTS

Initial flow started with a surface blow that increased to 6.5" in the bucket.
 Final flow started with a surface blow that increased to 2.5" in the bucket.

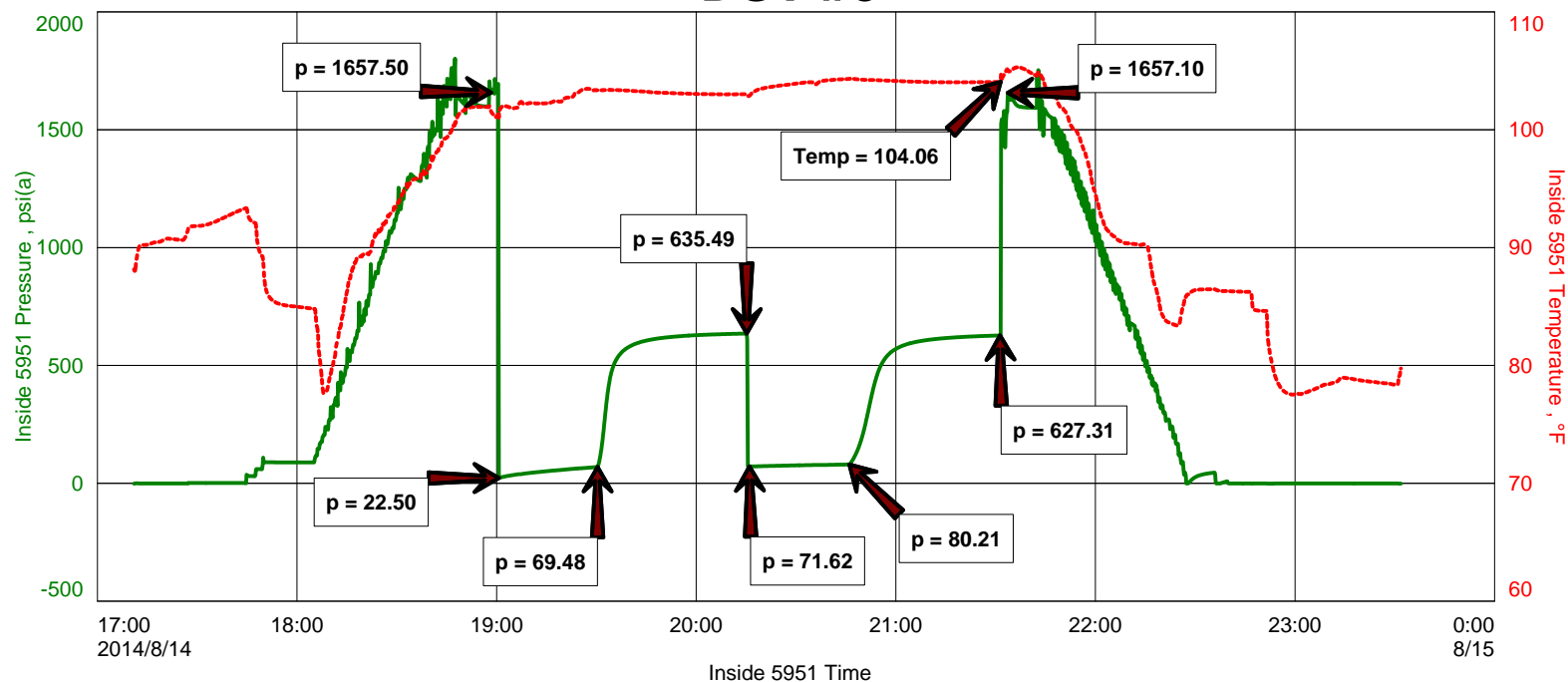
(Tool slid 3' after opening, tool was sitting on approximately 7' of fill throughout the test.)

Recovered 150' of, SOCWM, 4% oil, 41% wtr, 55% mud
 Chlorides: 32,000 PPM
 RW: .22 ohm @ 68 Deg F
 PH: 8.0

LD Drilling
 Start Test Date: 2014/08/14
 Final Test Date: 2014/08/14

Rugan Farms #2-24
 Formation: Lansing "H-J" 3361'-3425'
 Job Number: F298

DST #3





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

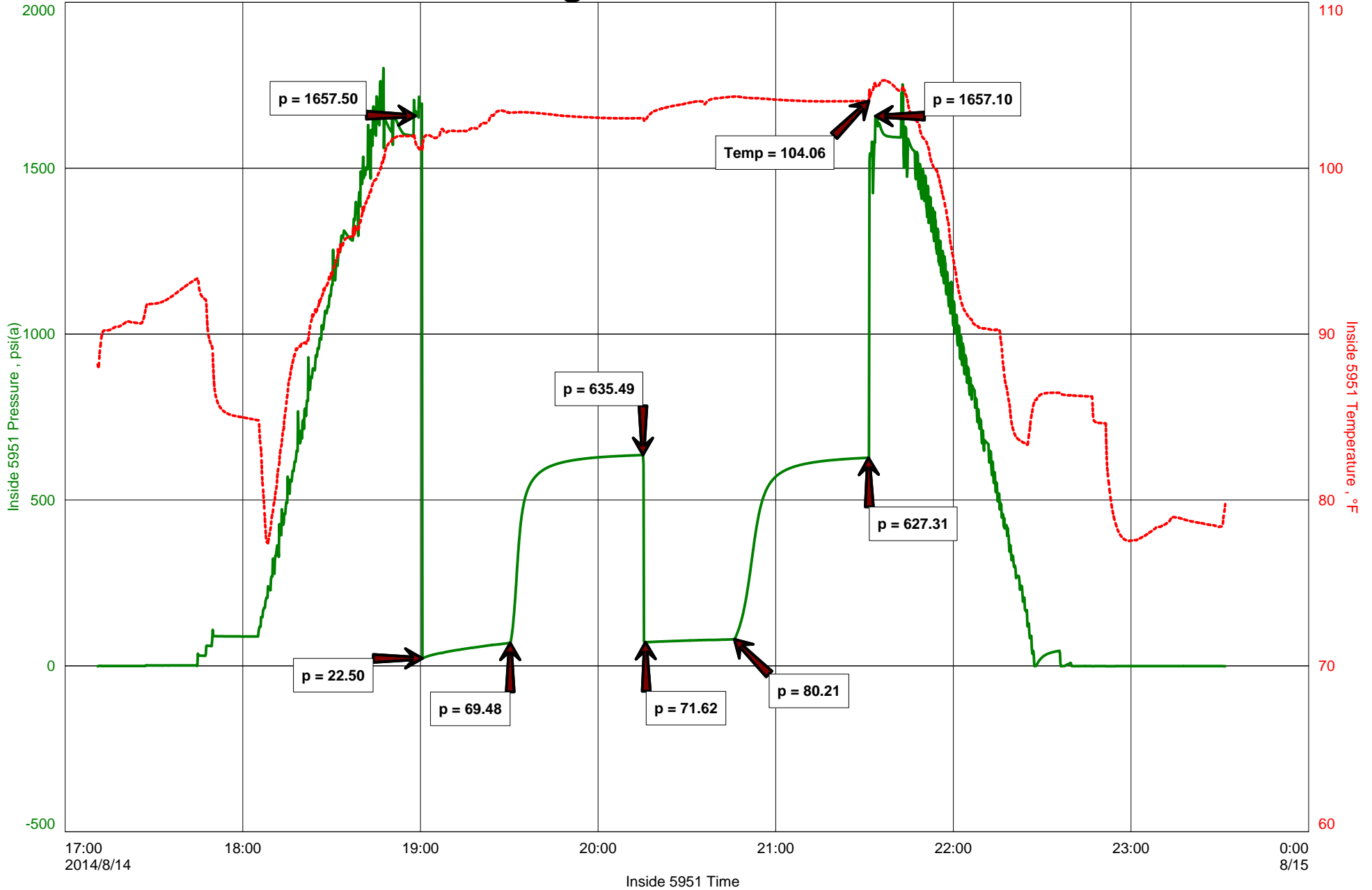
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... 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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LD Drilling
Start Test Date: 2014/08/14
Final Test Date: 2014/08/14

Rugan Farms #2-24
Formation: Lansing "H-J" 3361'-3425'
Job Number: F298

Rugan Farms #2-24





DIAMOND TESTING, LLC
 P.O. Box 157
 HOISINGTON, KANSAS 67544-0157
 (800) 542-7313

ON LOG: 16:43
 TIME ON: 17:11
 TIME OFF: 23:32

DRILL-STEM TEST TICKET

FILE: RUG-FA2DST3

Company LD DRILLING Lease & Well No. RUGAN FARMS #2-24
 Contractor PETROMARK #2 Charge to LD DRILLING
 Elevation 1892' KB Formation LANSENG "H-5" Effective Pay _____ Ft. Ticket No. F298
 Date 8-14-14 Sec. 24 Twp. 20 S Range 14 W County BARTON State KANSAS
 Test Approved By KURT TALBOT Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 3 Interval Tested from 3361 ft. to 3425 ft. Total Depth 3425 ft.
 Packer Depth 3356 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3361 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3347 ft. Recorder Number 5957 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3367 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEMICAL Viscosity 45 Drill Collar Length 125 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 12.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 10000 P.P.M. Drill Pipe Length 3311 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? NO Reversed Out NO Anchor Length 64 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size _____ in. Bottom Choke Size 5/8 in.

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

Recovered 150 ft. of SOCWM 4%_o, 41%_w, 55%_m
 Recovered _____ ft. of CHLORIDES: 32,000 PPM
 Recovered _____ ft. of RW: .22 SL @ 68°F
 Recovered _____ ft. of PH: 8.0

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOOL SLID 3' AFTER OPENING, TOOL WAS SETTING ON APPROX 7' OF WELL THROUGHOUT TEST.</u>	Insurance
	Total

Time Set Packer(s) 7:00 ~~AM~~ P.M. Time Started Off Bottom 9:30 ~~AM~~ P.M. Maximum Temperature 104 F

Initial Hydrostatic Pressure..... (A) 1658 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 23 P.S.I. to (C) 69 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 635 P.S.I.
 Final Flow Period..... Minutes 30 (E) 72 P.S.I. to (F) 80 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 627 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1657 P.S.I. Jake Fahrenbruch

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DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Rugan Farms #2-24
Formation	Arbuckle 3504'-3525'
Surface Location	Sec 24-20s-14w-Barton Co-KS
Field	
Company Name	LD Drilling
Well Operator	LD Drilling
Well Type	Vertical
Test Type	Conv. Bottom-Hole
Test Purpose (AEUB)	Initial Test
Gauge Name	Inside 5951
Start Test Date	2014/08/15
Start Test Time	14:27:00
Final Test Date	2014/08/15
Final Test Time	21:11:00
Job Number	F299
Contact	LD Davis
Site Contact	Jim Musgrove
Qualified By	Jim Musgrove

TEST RESULTS

Initial flow built to BOB in 30 seconds, GTS in 15 minutes. Blowback @ 3/4" on initial shut-in.
Final flow built to BOB immediately, Guaged gas. No blowback on final shut-in.

RECOVERED 205' TOTAL FLUID

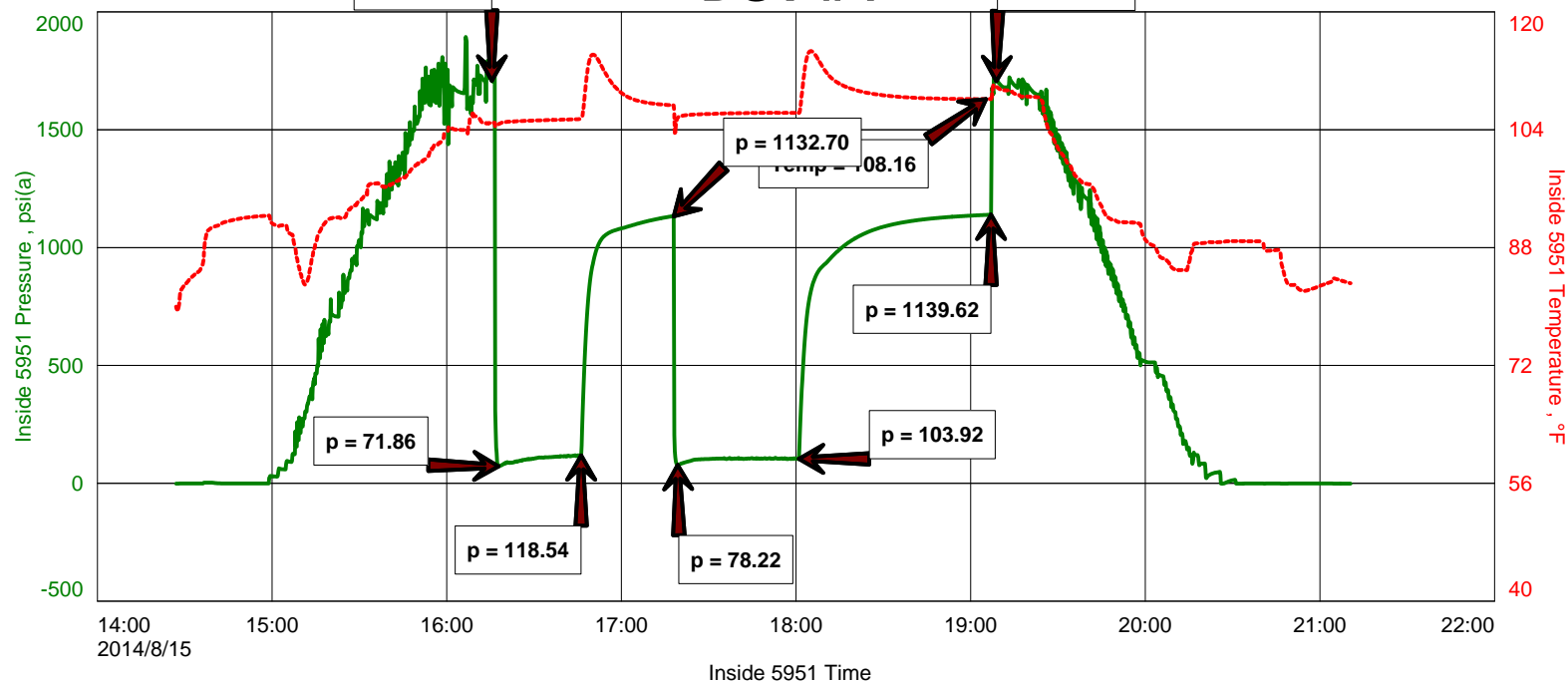
142' SGCM 5%g, 95%m
63' SGC OSM 10%g, 3%o, 87%m

Flowed gas to surface, stabilized on final flow at 51,800 CF/D.

LD Drilling
Start Test Date: 2014/08/15
Final Test Date: 2014/08/15

Rugan Farms #2-24
Formation: Arbuckle 3504'-3525'
Job Number: F299

DST #4





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: _____	

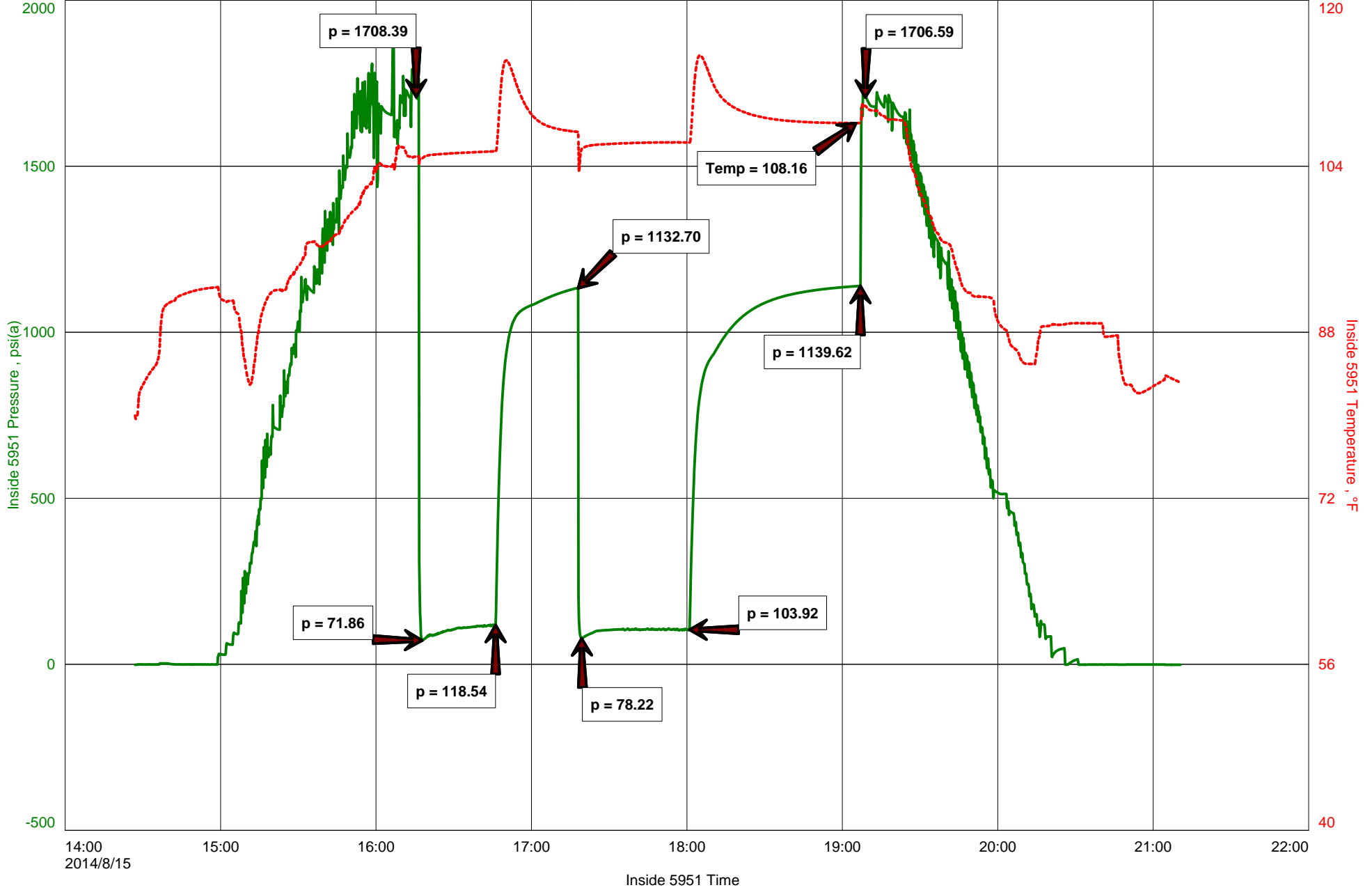
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure..... (A) _____ P.S.I.
 Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
 Final Flow 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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LD Drilling
Start Test Date: 2014/08/15
Final Test Date: 2014/08/15

Rugan Farms #2-24
Formation: Arbuckle 3504'-3525'
Job Number: F299

Rugan Farms #2-24





DIAMOND TESTING

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

DRILL-STEM TEST TICKET
FILE: RUGFAZ DST4

ON LOCATION: 14:12
START RECORDERS: 14:27
STOP RECORDERS: 21:11

Company LD DRILLING, INC. Lease & Well No. RUGAN FARMS #2-24
Contractor PETROMARK DRLLG. REG #2 Charge to LD DRILLING, INC.
Elevation 1892' KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F299
Date 8-15-14 Sec. 24 Twp. 20S Range 14W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 4 Interval Tested from 3504 ft. to 3525 ft. Total Depth 3525 ft.
Packer Depth 3499 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3504 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3490 ft. Recorder Number 5951 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 3505 ft. Recorder Number 5584 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 125 ft. I.D. 2 1/4 in.
Weight 9.1+ Water Loss 16 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 15000 P.P.M. Drill Pipe Length 3354 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 21 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: STRONG BLOW @ B.O.B. IN 30 SEC / GTS 15 MIN / 8B @ 3/4"
2nd Open: STRONG BLOW @ B.O.B. IMMEDIATELY / GAUGE GAS

Recovered 142 ft. of SGCM 5' G, 95" M
Recovered 63 ft. of SGC OSM 10' G, 3" O, 87" M
Recovered _____ ft. of TOTAL FLUID REC: 205'

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

Time Set Packer(s) 4:17 ^{AM} (P.M.) Time Started Off Bottom 7:02 ^{AM} (P.M.) Maximum Temperature 108F

Initial Hydrostatic Pressure..... (A) 1708 P.S.I.
Initial Flow Period..... Minutes 30 (B) 72 P.S.I. to (C) 119 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1133 P.S.I.
Final Flow Period..... Minutes 45 (E) 78 P.S.I. to (F) 104 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1140 P.S.I. THANKS!
Final Hydrostatic Pressure..... (H) 1707 P.S.I. Jake Fahrenbruch

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LOREN HADDON 620-786-0388



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
GAS VOLUME REPORT

Company LD DRILLING Lease & Well No. RUGAN FARMS #2-24
Date 8-15-14 Sec. 24 Twp. 20S Rge. 14 W Location _____ County BARTON State KS
Drilling Contractor PETROMARK DRILL #2 Formation ARBUCKLE DST No. 4
Remarks: GAS SAMPLE TAKEN AT 5:50 PM.

INITIAL FLOW

Time O'Clock	Orifice Size	Gauge PSI	CF/D
4:32 PM	1/4 in.	27 in.	57,700
4:37 PM	in.	29 in.	60,400
4:42 PM	in.	31 in.	63,200
4:47 PM	in.	34 in.	67,500
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW

Time O'Clock	Orifice Size	Gauge PSI	CF/D
5:27 PM	1/4 in.	19 in.	45,500
5:37 PM	in.	22 in.	50,200
5:47 PM	in.	23 in.	51,800
5:57 PM	in.	23 in.	51,800
6:02 PM	in.	23 in.	51,800
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

Paul E. Jahnke

DIAMOND TESTING GENERAL REPORT

Jake Fahrenbruch, Tester

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



TEST INFORMATION

Well Name	Rugan Farms #2-24
Formation	Arbuckle 3525'-3545'
Surface Location	Sec 24-20s-14w-Bsrton Co-KS
Field	
Company Name	LD Drilling
Well Operator	LD Drilling
Well Type	Vertical
Test Type	Conv. Bottom-Hole
Test Purpose (AEUB)	Initial Test
Gauge Name	Inside 5951
Start Test Date	2014/08/16
Start Test Time	05:55:00
Final Test Date	2014/08/16
Final Test Time	15:01:00
Job Number	F300
Contact	LD Davis
Site Contact	Jim Musgrove
Qualified By	Jim Musgrove

TEST RESULTS

Initial flow, strong blow @ BOB in 15 sec., GTS 8 min., Blowback @ BOB. Oil to surface during initial shut-in.
 Final flow, strong blow, Oil to surface in 10 min. Unloaded oil to pits during final shut-in.

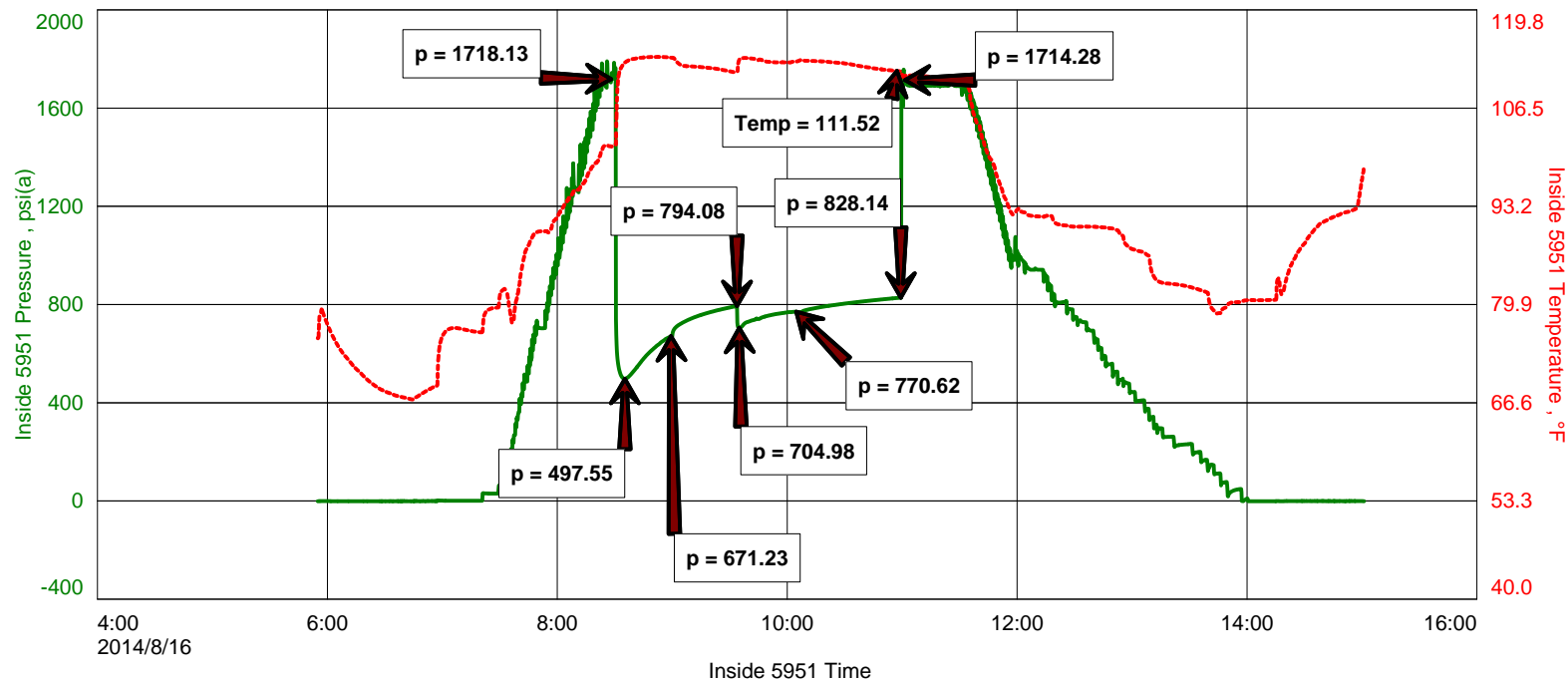
TOTAL FLUID RECOVERY: 1980'

1446'	Clean Gassy Oil	
186'	GWMCO	20% G, 15% W, 20% M, 45% O
248'	WATER	100% W
----	37.5 GRAVITY @ 60 Deg F	
----	RW: .20 ohm @ 94 Deg F	----- CHLORIDES: 26,000 PPM

LD Drilling
 Start Test Date: 2014/08/16
 Final Test Date: 2014/08/16

Rugan Farms #2-24
 Formation: Arbuckle 3525'-3545'
 Job Number: F300

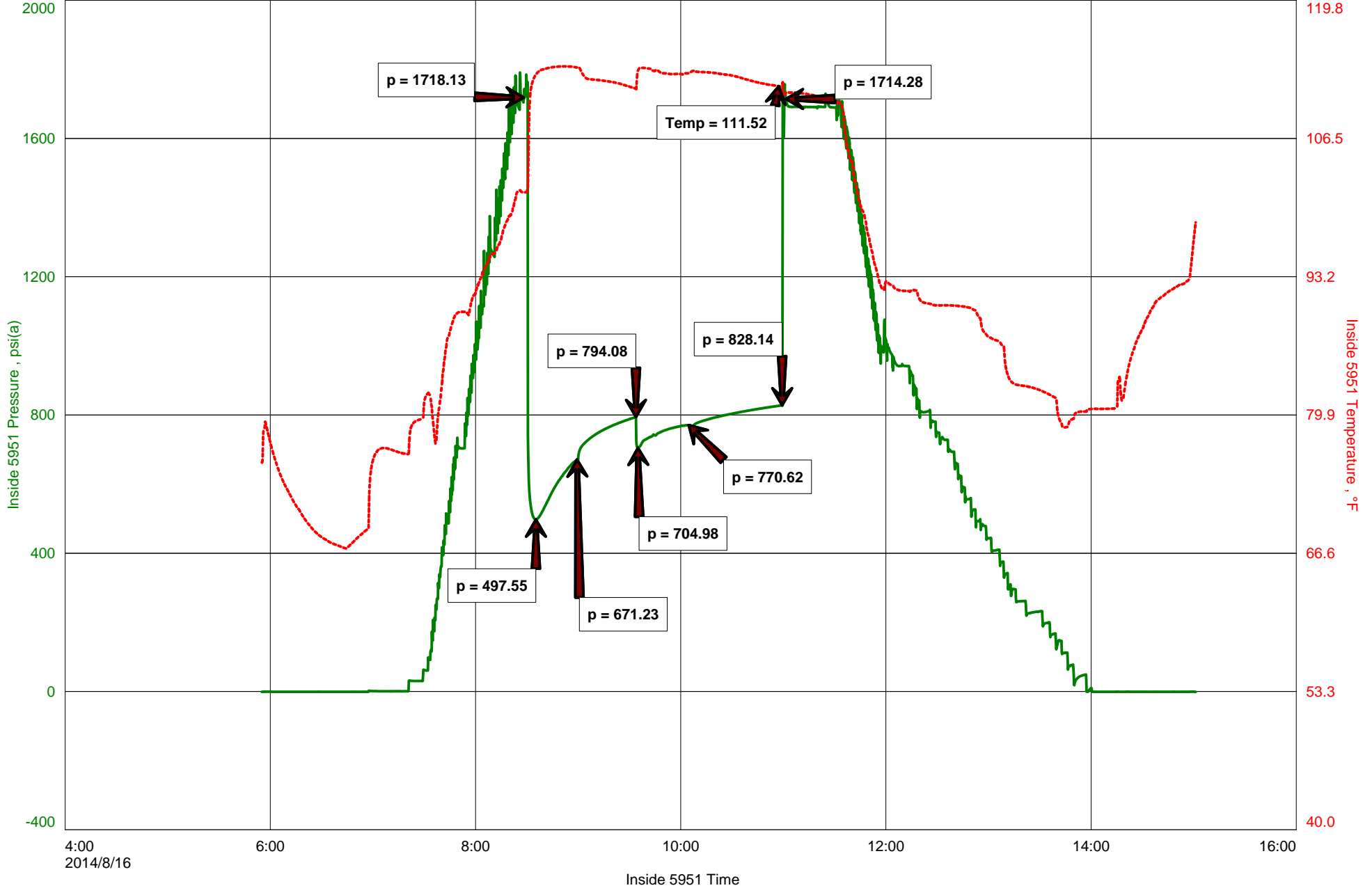
DST #5



LD Drilling
Start Test Date: 2014/08/16
Final Test Date: 2014/08/16

Rugan Farms #2-24
Formation: Arbuckle 3525'-3545'
Job Number: F300

RUGAN FARMS #2-24





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

DRILL-STEM TEST TICKET
 FILE: RUGFAZDST5

ON LOCATION: _____
 START RECORDERS: 05:55
 STOP RECORDERS: 15:01

Company LD DRILLING Lease & Well No. RUGAN FARMS #2-24
 Contractor PETROMARK DRLLG #2 Charge to LD DRILLING
 Elevation 1892' KB Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. F300
 Date 8-16-14 Sec. 24 Twp. 20S Range 14W County BARTON State KANSAS
 Test Approved By JEM MUSGROVE Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 5 Interval Tested from 3525 ft. to 3545 ft. Total Depth 3545 ft.
 Packer Depth 3520 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3525 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3511 ft. Recorder Number 5951 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 3526 ft. Recorder Number 5584 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 125 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 18 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 20,000 P.P.M. Drill Pipe Length 3375 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? GTS/OTS 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: STRONG BLOW, BOB 15 SEC, GTS 8 MEN. BB @ BOB. OTS.
 2nd Open: STRONG BLOW, OTS 10 MEN, UNLOADED OIL TO PITS ON SHUT-IN.

Recovered 1446 ft. of CLEAN GASSY OIL
 Recovered 186 ft. of GWMCO 20"G, 15"W, 20"M, 45"O
 Recovered 248 ft. of WATER 100"W

Recovered _____ ft. of TOTAL REC FLUID: 1980'
 Recovered _____ ft. of 37 1/2 GRAVITY @ 60°F
 Recovered _____ ft. of .20 Ω @ 94°F
 Remarks: 20,000 CHL

	Price Job
	Other Charges
	<u>520 TOTAL MILES FOR ALL TESTS</u>
	Total

Time Set Packer(s) 8:30 ^{AM} Time Started Off Bottom 10:45 ^{AM} Maximum Temperature 112°F

Initial Hydrostatic Pressure..... (A) 1718 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 498 P.S.I. to (C) 671 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 794 P.S.I.
 Final Flow Period..... Minutes 30 (E) 705 P.S.I. to (F) 771 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 828 P.S.I. THANKS!
 Final Hydrostatic Pressure..... (H) 1714 P.S.I. Jake Fahrenbruch

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Geologist's Report

Company: LD Drilling, Inc
 Lease: Rugan Farms #2-24
 Field: Maybach
 Surface Location: NE-SW-SE-NE (2086' FNL & 983' FEL)
 Sec: 24 Twp: 20S Rge: 14W
 County: Barton State: Kansas
 GL: 1887' KB: 1892'

Contractor: Petromark Drilling Rig #2
 Spud: 8/09/14 Comp: 8/16/14
 RTD: 3645' LTD: 3647'
 Mud Up: +/- 3000' Mud Type: Chemical Displaced

Drilling Time Kept From: 3000' to RTD
 Samples Saved From: 3000' to RTD
 Samples Examined: 3000' to RTD
 Geological Supervision: 3150' to RTD
 Geologist on Well: Kurt Talbott and Jim Musgrove

Surface Casing: 8 5/8" @ 364'
 Production Casing: 5 1/2" @

Wireline Logs: By Pioneer: CNL/CDL, DIL, MEL

Well Comparison

FORMATION	WELL BEING DRILLED		RUGAN FARMS #2		RUGAN FARMS #1		OFFSET	
	LOG	LOG SS	LOG	LOG SS	LOG	LOG SS	LD	SS
ANHYDRITE	783	1109			779	1111		
BASE ANHY	808	1084			803	1087		
HEEBNER	3135	-1243			3126	-1236		
TORONTO	3147	-1255			3137	-1247		
DOUGLAS	3163	-1261			3153	-1263		
BROWN LIME	3242	-1350			3230	-1340		
LANSING	3252	-1360			3238	-1348		
BASE KC	3465	-1573			3451	-1561		
REWORK ARB.	3500	-1608			3490	-1600		
SOLID ARBUCKLE	3508	-1616			3498	-1608		
TOTAL DEPTH	3647	-1755			3632	-1742		

ROCK TYPES

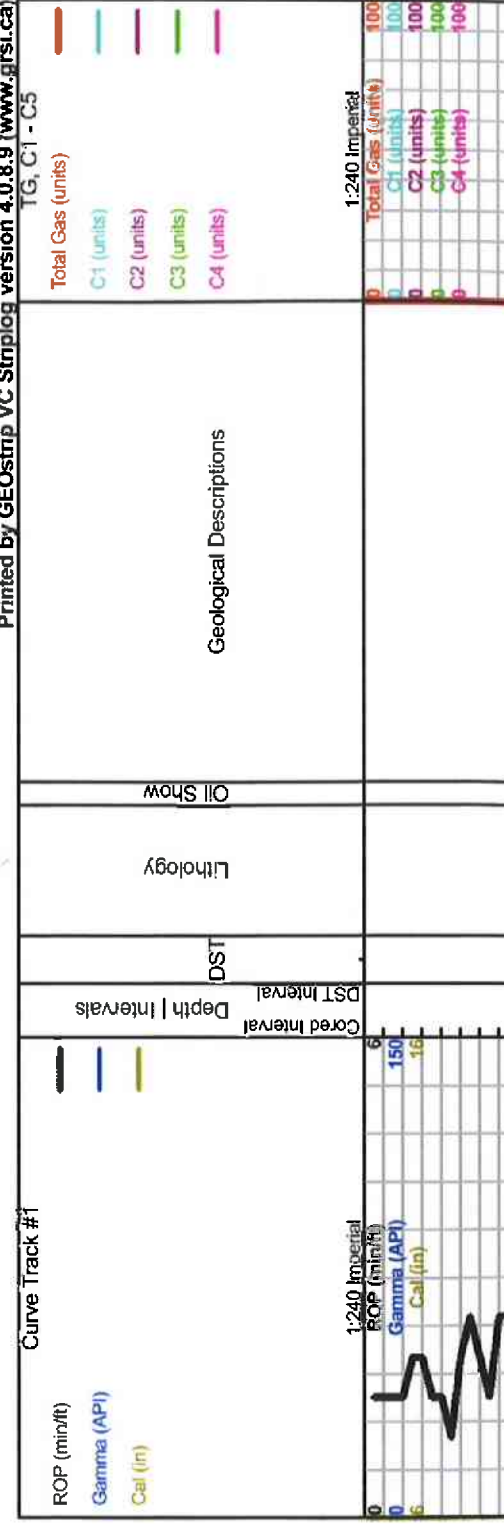


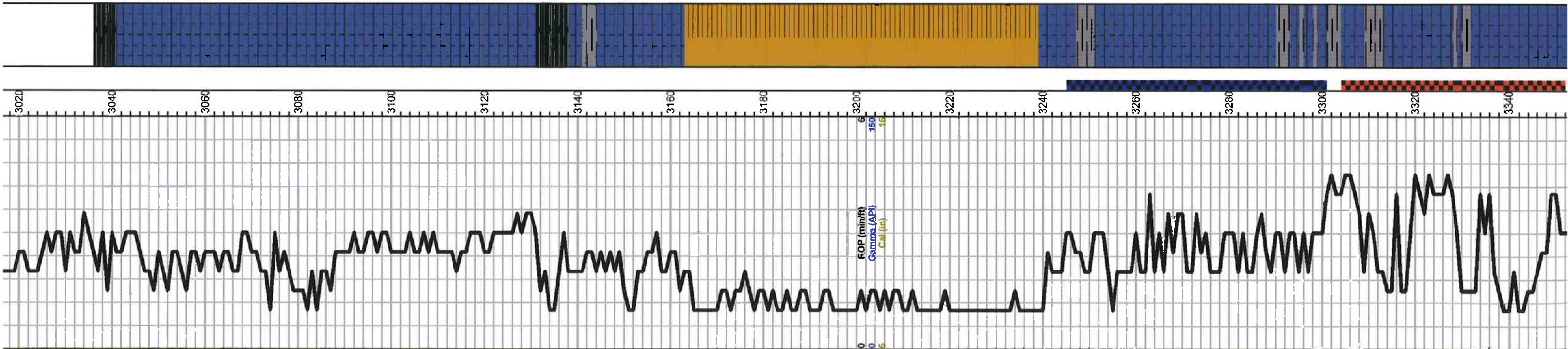
OTHER SYMBOLS

EVENTS
 : Casing Shoe
 > RTF
 > Sidewall
 > Left Casing Shoe
 > Right Casing Shoe

INTERVALS
 Core
 DST

DST
 DST Int
 DST alt





Black carbon shale

LS-crm/wht/lt gry, fxdn, few fossils, poor iner xln por, cherty boney wht

LS-wht/crm, fine to med xln, fossils, poor to fair iner xln por, chalk

LS-tan/gry, fxdn, dense, poor vis por, chert-tan/gry

LS-crm/tan, fxdn, ool/fossils, poor scattered por, trace dark brown stains, NSFO, Chert-tan/gry

Heebner 3131.0 (-1239.0) - 1243.0

Black carbon shale

Toronto 3146.0 (-1254.0) - 1255.0

LS-wht, ool/fossils, fair iner xln to finely vug por, dark brown to black stain, Dead oil shows

Douglas 3162.0 (-1260.0) - 1261.0

Shale-gry/grn-soft, silty, mica

A/A

Shale A/A

Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100

DST #1 3245-3300
 30-36-30-30
 IF: Surface blow

Recovery:
 10' Mud

Pressures:
 ISIP 114 psi
 FSIP 41 psi
 IHP 7-14 psi
 FFP 15-19 psi
 HSH 1594-1592 psi

Brown Lime 3238.0 (-1346.0) - 1350.0

LS-tan/brwn, dense, cherty in part

Lansing 3248.0 (-1356.0) - 1360.0

LS-wht/lt gry, fossils/ool, fair scattered iner ool por, brown stains, SFO, faint odor

LS-gry/crm, ool/fossils, poor iner xln to iner ool por, dark brown stains, TrSFO, faint odor

DST #2 3304-3350
 30-45-45-60
 IF: Built to 6"

IS: No return

Recovery:
 80' OWC/M
 (10x 10x 80m)
 45' SOCMW
 (2x 50x 48m)

LS-wht/crm, fxdn, fossils/ool, poor scattered por, Trace Stains, TrSFO, faint odor
 Shale-gry/blk

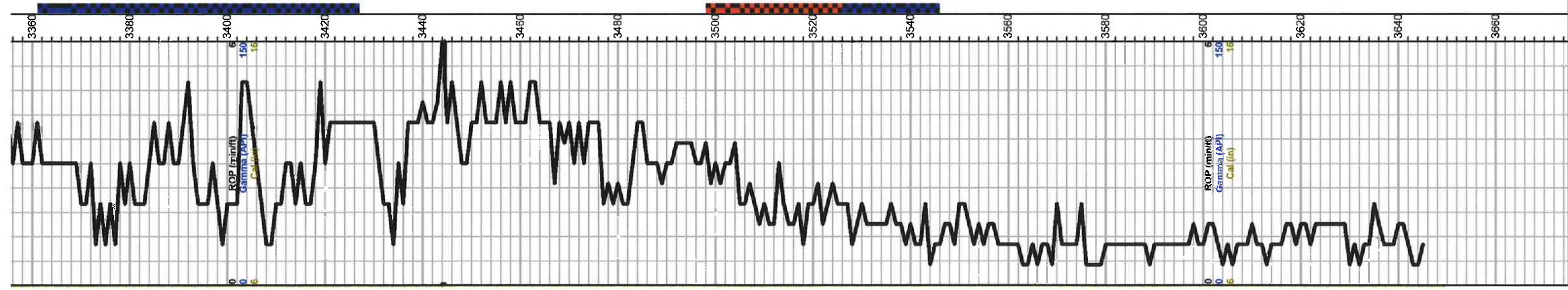
LS-wht/lt gry, fxdn, ool/fossils, fair iner ool to sub oom por, dark to golden brown stains, SFO, odor

LS-crm/gry, fxdn, ool, chalky, poor vis por,

LS-wht/crm, fxdn, sub oom to oom por, light to golden brown stains, TrSFO, faint odor,

LS-crm/tan, fxdn, ool, oom por, brown stains, SFO, odor, slightly chalky

DST #3 3361-3425
 30-45-30-45
 IF: Built to 4 1/2"
 IS: No return



<p>Recovery: 150' SOCM (4x 4 1/2" 55m)</p> <p>Pressures: ISIP 635 psi FSIP 627 psi FFP 23-69 psi FFP 72-80 psi HSH 1658-1657 psi</p> <p>Total Gas (units) 100 C1 (units) 100 C2 (units) 100 C3 (units) 100 C4 (units) 100</p> <p>DST #4 3504-3525 30-30-45-60 IF: BOB in 30 sec/ GTS @ 15 min. Max at 67500 CF/D FF: Gauge Levelled at 51800 CID</p> <p>Recovery: 142' SOCM (5g 95m) 63' SOCM (10g 3x 87m)</p> <p>Pressures: ISIP 1133 psi FSIP 1140 psi FFP 72-119 psi FFP 78-104 psi HSH 1708-1707 psi</p> <p>DST #5 3525-3545 30-30-30-45 IF: BOB 15 sec/ GTS @ 8 min. Max gauge of 61900 CID</p> <p>Recovery: 1446' Clean Gassy Oil (86' GWMO (20g 15w 20m 45o) 248' water</p> <p>Pressures: ISIP 794 psi FSIP 838 psi FFP 498-671 psi FFP 795-771 psi HSH 1718-1714 psi</p> <p>Total Gas (units) 100 C1 (units) 100 C2 (units) 100 C3 (units) 100 C4 (units) 100</p>	<p>LS-wht/lt gry, fxdn, few ool/fossils, poor vis por, chalky chert-crm/boney wht</p> <p>LS-gry/tan, fxdn, ool, slightly chalky, poor to fair iner xin por, golden brown stains, SFO, faint odor</p> <p>LS-wht/crm, fxdn, ool/fossils, fair iner ool to vuggy por, godlen brown stains, SFO, fair odor, slightly chalky</p> <p>LS-wht/crm fxdn, ool, poor to fair iner xin por, trace golden brown stains, TrSFO, fair odor, chalky</p> <p>Shale-blk/green/gry</p> <p>LS-wht, fxdn, oo, chalky, trace brown to golden brown stains, NSFO, no odor</p> <p>Base KC 3462.0 (-1570.0) - 1573.0</p> <p>Very coarse shale</p> <p>LS-wht/lt gry, sandy, black stains, NSFO, no odor,</p> <p>Mar/brick red/grn shale</p> <p>A/A</p> <p>Solid Arbuckle 3506.0 (- 1614.0) -1616.0</p> <p>Dolomite- tan, sucrosic, few med xin, scattered por, brown to golden brown stains, SFO, faint to fair odor</p> <p>Dol A/A chert-gry/wht</p> <p>Dol-fine toned xin, blk to brown stains, SFO, fair odor</p> <p>Dol-tan, fxdn, sub oom, scattered vuggy por, brown to golden brown stains/saturation, SFO, faint odor</p> <p>Dol-gry/tan, fxdn, few med xin, sucrosic, sattered por, trace stains, TrSFO, faint odor, Slug VC Shale</p> <p>A/A gry/blk stains, Trace Pyrite</p> <p>Dol-tan/gry, fxdn, few sucrosic, few oom, gry/blk stain, NSFO, faint odor</p> <p>Dol-gry/wht, fine to med xin, scattered iner xin por, chert-boney wht/gry</p> <p>Dol-wht/lt gry, fine to med xin, scattered iner xin por, chert-boney wht/gry</p> <p>Total Depth 3645.0 (0.0) - 1755.0</p>
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11124 A

DATE _____ TICKET NO. _____

24 20 14

DATE OF JOB <u>8-17-14</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <u>L.D. Drilling Inc</u>		LEASE <u>Rugno Farms</u> 2-24 WELL NO. _____								
ADDRESS _____		COUNTY <u>Barton</u>		STATE <u>KS</u>						
CITY _____ STATE _____		SERVICE CREW <u>Scott, Mike, Dale</u>								
AUTHORIZED BY _____		JOB TYPE: <u>5/8 Long string</u> <u>CRUI</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>35470</u>	<u>.7</u>					ARRIVED AT JOB	<u>8-17-14</u>			<u>10:45</u>
<u>77696 19905</u>	<u>.7</u>					START OPERATION	<u>8-17-14</u>			<u>1:55</u>
<u>20959 19915</u>	<u>.7</u>					FINISH OPERATION	<u>8-17-14</u>			<u>2:30</u>
						RELEASED	<u>8-17-14</u>			<u>3:30</u>
						MILES FROM STATION TO WELL _____				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: L.D. Davis By D. Scott
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100C	Common Cement	SK	150		2100.00
CP103	60/40 P02	SK	30		360.00
CC111	Salt	lb	617		308.50
CC130	C-51	lb	29		775.00
CC201	Gilsonite	lb	750		507.50
CF607	latch down plug + Baffle 5/8	EA	1		400.00
CF1251	Auto fill float stop 5/8	EA	1		360.00
CF1651	Turbalizer 5/8	EA	6		660.00
CF1901	Basket 5/8	EA	1		290.00
CF2601	Cement Scratcher 5/8	EA	5		375.00
CF704	Claymat KCl Substitutes	Gal	4		140.00
CC151	Mud flush	Gal	1500		1500.00
E100	Local Mileage pickup	MI	45		191.25
E101	Heavy Equipment Mileage	MI	90		630.00
E113	Drop + Bulk Delivery	TM	376		876.75
CF211	Drath Charge 3000-4000	4lbs	1		2160.00
CF240	Blending + Moving charge	SK	180		252.00
CF504	Plug Container	Job	1		250.00
5003	Service Supervisor	EA	1		175.00
SUB TOTAL					

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL 1611 9,629 54

SERVICE REPRESENTATIVE [Signature]

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: L.D. Davis By D. Scott
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer <i>L.D. Dilling Inc</i>	Lease No.	Date <i>8-17-14</i>
Lease <i>Ryan Farms</i>	Well # <i>2-24</i>	
Field Order # <i>11174A</i>	Station	Casing <i>5 1/2</i>
Type Job <i>5/8 Long String</i>	Formation <i>CNW</i>	Depth
		County <i>Barton</i>
		State <i>KS</i>
		Legal Description <i>24 20 14</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>3642</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>8667</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1200</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>5/2</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>Kevin Goodley</i>	Treater <i>Scott Graves</i>
Service Units <i>38470</i>	<i>77646</i>	<i>70459</i>
Driver Names <i>Scott</i>	<i>M.P.</i>	<i>Dade</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:45</i>					<i>On location Safety meeting</i>
<i>11:30</i>					<i>Rig up</i>
<i>12:55</i>					<i>Run float Equipment Rusted on #5</i>
<i>1:55</i>	<i>150</i>		<i>3</i>	<i>5</i>	<i>Turbolizers 1,3,5,7,9,11</i>
<i>1:57</i>	<i>200</i>		<i>24</i>	<i>5</i>	<i>Circulate well 1 hr</i>
<i>2:00</i>	<i>200</i>		<i>3</i>	<i>5</i>	<i>Pump H2O spacer</i>
<i>2:02</i>	<i>300</i>		<i>33.13</i>	<i>6.7</i>	<i>Pump Mud flush 1000 gallon</i>
<i>2:08</i>					<i>Pump H2O spacer</i>
<i>2:09</i>					<i>Mix 150 SKS Compressor</i>
<i>2:11</i>					<i>shut down</i>
<i>2:11</i>	<i>400</i>			<i>6</i>	<i>shut down</i>
<i>2:21</i>	<i>250</i>		<i>76</i>	<i>2.5</i>	<i>When pump times</i>
<i>2:25</i>	<i>500</i>		<i>11</i>		<i>Drop plug</i>
<i>2:25</i>	<i>1000</i>				<i>Start Displacement</i>
<i>2:26</i>	<i>0</i>				<i>Decrease Rate</i>
<i>2:30</i>	<i>0</i>		<i>8</i>	<i>2.5</i>	<i>Plug landed</i>
					<i>Increase pressure set plug</i>
					<i>Release pressure</i>
					<i>Plug set hole 50 SKS 60/40 P02</i>
					<i>shut down</i>
					<i>Job complete</i>



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P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 10874 A

DATE _____ TICKET NO. _____

DATE OF JOB: 8-9-14	DISTRICT: Pratt KS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: L.O. Drilling Inc	LEASE: Rugan Farms 2-24	WELL NO.:								
ADDRESS:	COUNTY: Barton	STATE: KS								
CITY:	STATE:	SERVICE CREW: Sullivan, Eric, Husotter								
AUTHORIZED BY:	JOB TYPE: CPW 8 5/8 S&S									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
33708-20920	40 mi						8-9-14			10:00
19960-21010	40 mi					ARRIVED AT JOB				12:20
37900						START OPERATION				1:40
						FINISH OPERATION				2:20
						RELEASED				3:00
						MILES FROM STATION TO WELL				45

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

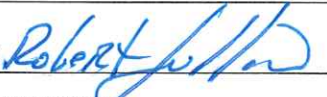
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.


SIGNED: 
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100	A-Land cement	SK	175		3,150.00
CP 100c	Common cement	SK	125		2,800.00
CC 102	Cellulose	lb	88		325.60
CC 109	Calcium chloride	lb	825		866.25
CF 153	wood plug	SA	1		160.00
E 100	Auger mix	mi	45		191.25
E 101	Heavy Grout	mi	90		630.00
E 113	Bulk Delivery	TM	743		1,433.50
CE 200	Depth charge	SA	1		1,000.00
CK 240	Blending - truck	SK	350		490.00
CE 504	plug container	SA	1		250.00
S 003	Service Super	SA	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL	8,987.13
SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE: 
FIELD SERVICE ORDER NO.:

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: 
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>L.O. Drilling INC</i>	Lease No.	Date <i>08-09-14</i>	
Lease <i>RUGAN Farms</i>	Well # <i>2-24</i>		
Field Order # <i>10874</i>	Station <i>Pratt KS</i>	Casing <i>8 5/8</i>	Depth <i>369'</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	County <i>BARTON</i>	State <i>KS</i>
		Legal Description <i>24-20-14</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								
Depth <i>369</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>22</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>300</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>341</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert J. ...</i>
Service Units <i>37900 33708 20920 19960 21910</i>		
Driver Names <i>Sullivan Eppin Husston (Rep + ...)</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:20</i>					<i>on loc</i>
<i>1:25</i>					<i>CASING ON BOTTOM</i>
<i>1:35</i>					<i>hook circ up</i>
<i>1:40</i>			<i>3</i>	<i>4</i>	<i>1st SPACER</i>
			<i>76</i>		<i>mix A-con emt 175 sk 3% cc 1/4 cf</i>
			<i>37</i>	<i>5</i>	<i>mix Tail common emt 175 sk 2% cc 1/4 cf</i>
					<i>emt mixed shut down</i>
					<i>Release Plug</i>
				<i>3.5</i>	<i>1st Pump</i>
<i>2:20</i>			<i>22</i>		<i>plug down</i>
					<i>circulated 12 BBL emt pit</i>
					<i>JOB Complete</i>
					<i>Thank you</i>