



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1273426
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: _____

1273426

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	L. D. Drilling, Inc.
Well Name	DARREL 4-31
Doc ID	1273426

Tops

Name	Top	Datum
ANHYDRITE	2044	+601
BASE ANHYDRITE	2073	+572
STOTLER	3276	-631
HEEBNER	3648	-1003
LANSING	3684	-1039
STARK	3934	-1289
MARMATON	4030	-1385
FORT SCOTT	4184	-1539
CHEROKEE	4208	-1563
MISS. SPERGEN	4319	-1674



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: 4-31DRRLDST1

TIME ON: 1735 (11/2)
 TIME OFF: 0200 (11/3)

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL
 Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
 Elevation 2645 KB Formation TORONTO/LANSING A Effective Pay _____ Ft. Ticket No. M800
 Date 11/2/2015 Sec. 31 Twp. _____ 19 S Range _____ 29 W County GOVE State KANSAS
 Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3647 ft. to 3700 ft. Total Depth 3700 ft.
 Packer Depth 3642 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 3647 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3629 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3649 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth 3697 ft. Recorder Number 6448 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 51 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 8.8 Water Loss 6.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 2,000 P.P.M. Drill Pipe Length 3615 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 53 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: WSB, INCREASED TO 9" (NO BB)
 2nd Open: VWSB, INCREASED TO 8" (NO BB)

Recovered -2 ft. of CO 100% OIL GRAVITY: 34.0 @ 60°
 Recovered 172 ft. of VSOSGWM 30% WTR, 70% MUD W/ A VERY THIN SCUM OF OIL, SOME GASSY BUBBLES
 Recovered 48 ft. of VSOSMW 95% WTR, 5% MUD W/ A FEW SPECKS OF OIL
 Recovered 222 ft. of TOTAL FLUID

Recovered _____ ft. of <u>RW: .40 @ 46 DEG</u>	Price Job
Recovered _____ ft. of <u>PH: 7.0</u>	Other Charges
Remarks: <u>CHLOR: 45,000 PPM</u>	Insurance
<u>TOOL SAMPLE: 3% GAS, 53% WTR, 44% MUD W/ A VERY THIN SCUM OF OIL</u>	Total

Time Set Packer(s) 8:30 P.M. A.M. P.M. Time Started Off Bottom 11:30 P.M. A.M. P.M. Maximum Temperature 124°F

Initial Hydrostatic Pressure..... (A) 1749 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 40 P.S.I. to (C) 86 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 966 P.S.I.
 Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 136 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 948 P.S.I.
 Final Hydrostatic Pressure..... (H) 1727 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

Pressure Survey Report

General Information

Company Name	#4-31 DARREL	Job Number	M800
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3647-3700 TORONTO/LANSING A	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/03
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3647-3700 TORONTO/LANSING A		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/02	Start Test Time	17:35:00
Final Test Date	2015/11/03	Final Test Time	02:00:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

~2' CO 100% OIL
172' VSOSGWM 30% WTR, 70% MUD W/ A VERY THIN SCUM OF OIL, SOME GASSY BUBBLES
48' VSOSMW 95% WTR, 5% MUD W/ A FEW SPECKS OF OIL
222' TOTAL FLUID

GRAVITY: 34.0 @ 60 DEG

CHLOR: 45,000 PPM

PH:7.0

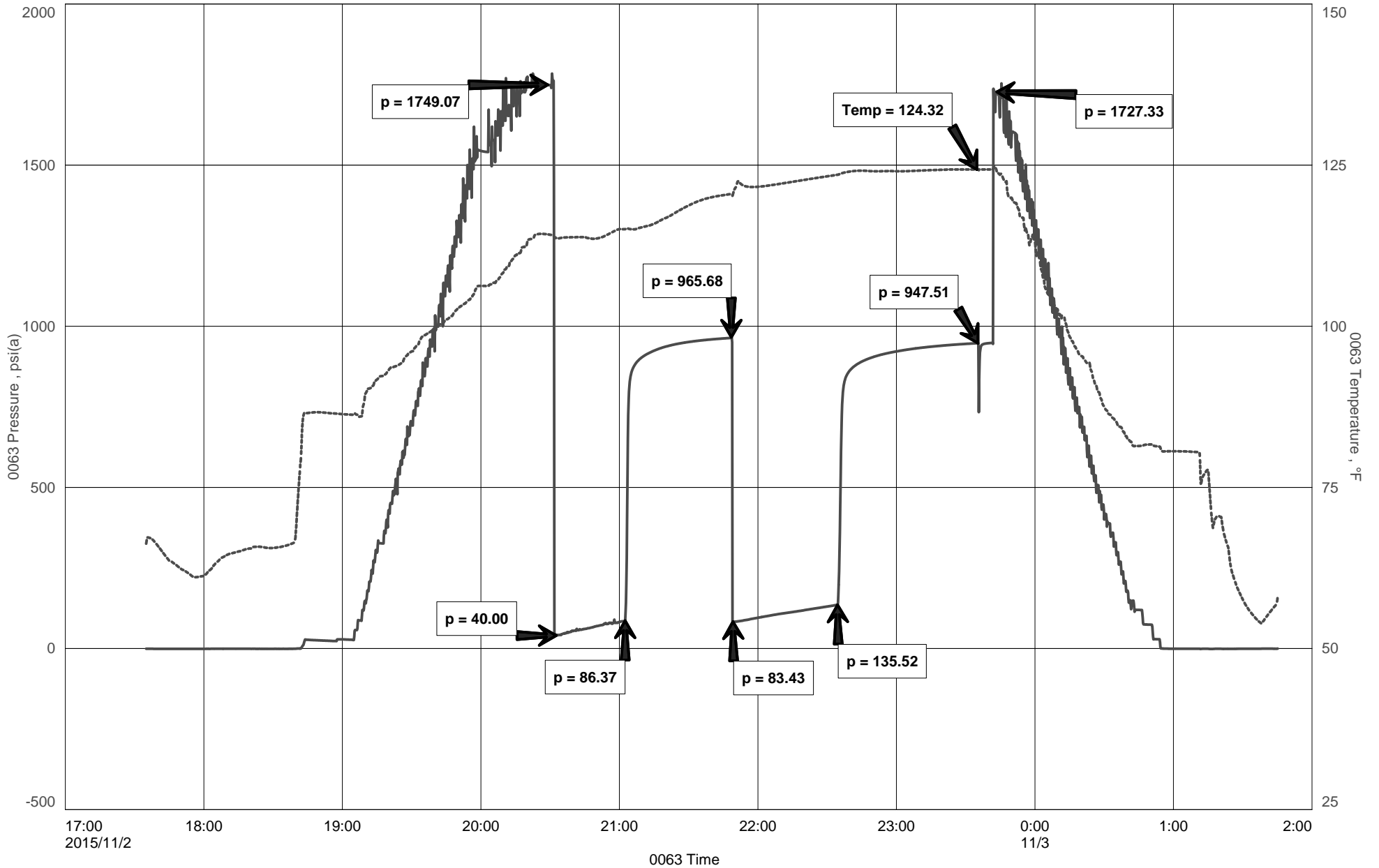
RW: .40 @ 46 DEG.

TOOL SAMPLE: 3% GAS, 53% WTR, 44% MUD W/ A VERY THIN SCUM OF OIL

#4-31 DARREL
DST#1 3647-3700 TORONTO/LANSING A
Start Test Date: 2015/11/02
Final Test Date: 2015/11/03

#4-31 DARREL
Formation: DST#1 3647-3700 TORONTO/LANSING A
Pool: WILDCAT
Job Number: M800

#4-31 DARREL





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 4-31DRRLDST2

TIME ON: 0900
TIME OFF: 1545

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
Elevation 2645 KB Formation LANSING 'B' Effective Pay _____ Ft. Ticket No. M801
Date 11/3/2015 Sec. 31 Twp. 19 S Range 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 3705 ft. to 3725 ft. Total Depth 3725 ft.

Packer Depth 3700 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 3705 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3787 ft. Recorder Number 0063 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3707 ft. Recorder Number 5448 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth 3722 ft. Recorder Number 6448 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 51 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 8.8 Water Loss 6.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,000 P.P.M. Drill Pipe Length 3673 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO 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: SSB, BUILT TO 2" (NO BB)

2nd Open: SSB, BUILT TO 4" (NO BB)

Recovered -8 ft. of CO 100% OIL GRAVITY: 33.1 @ 60°

Recovered 27 ft. of VSOSWM 35% WTR, 65% MUD W/ A SCUM OF OIL

Recovered 35 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of RW: .34 @ 84 DEG Price Job _____

Recovered _____ ft. of PH: 8.0 Other Charges _____

Remarks: CHLOR: 16,000 PPM Insurance _____

TOOL SAMPLE: 22% OIL, 30% WTR, 48% MUD Total _____

Time Set Packer(s) 10:45 A.M. A.M. P.M. Time Started Off Bottom 1:45 P.M. A.M. P.M. Maximum Temperature 116°F

Initial Hydrostatic Pressure..... (A) 1736 P.S.I.

Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 19 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 421 P.S.I.

Final Flow Period..... Minutes 45 (E) 26 P.S.I. to (F) 29 P.S.I.

Final Closed In Period..... Minutes 60 (G) 416 P.S.I.

Final Hydrostatic Pressure..... (H) 1719 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

Pressure Survey Report

General Information

Company Name	#4-31 DARREL	Job Number	M801
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#2 3705-3725 LANSING 'B'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/03
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 3705-3725 LANSING 'B'		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/03	Start Test Time	09:00:00
Final Test Date	2015/11/03	Final Test Time	15:45:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

~8' CO 100% OIL
27' VSOSWM 35% WTR, 65% MUD W/ A SCUM OF OIL
35' TOTAL FLUID

GRAVITY: 33.1 @ 60 DEG

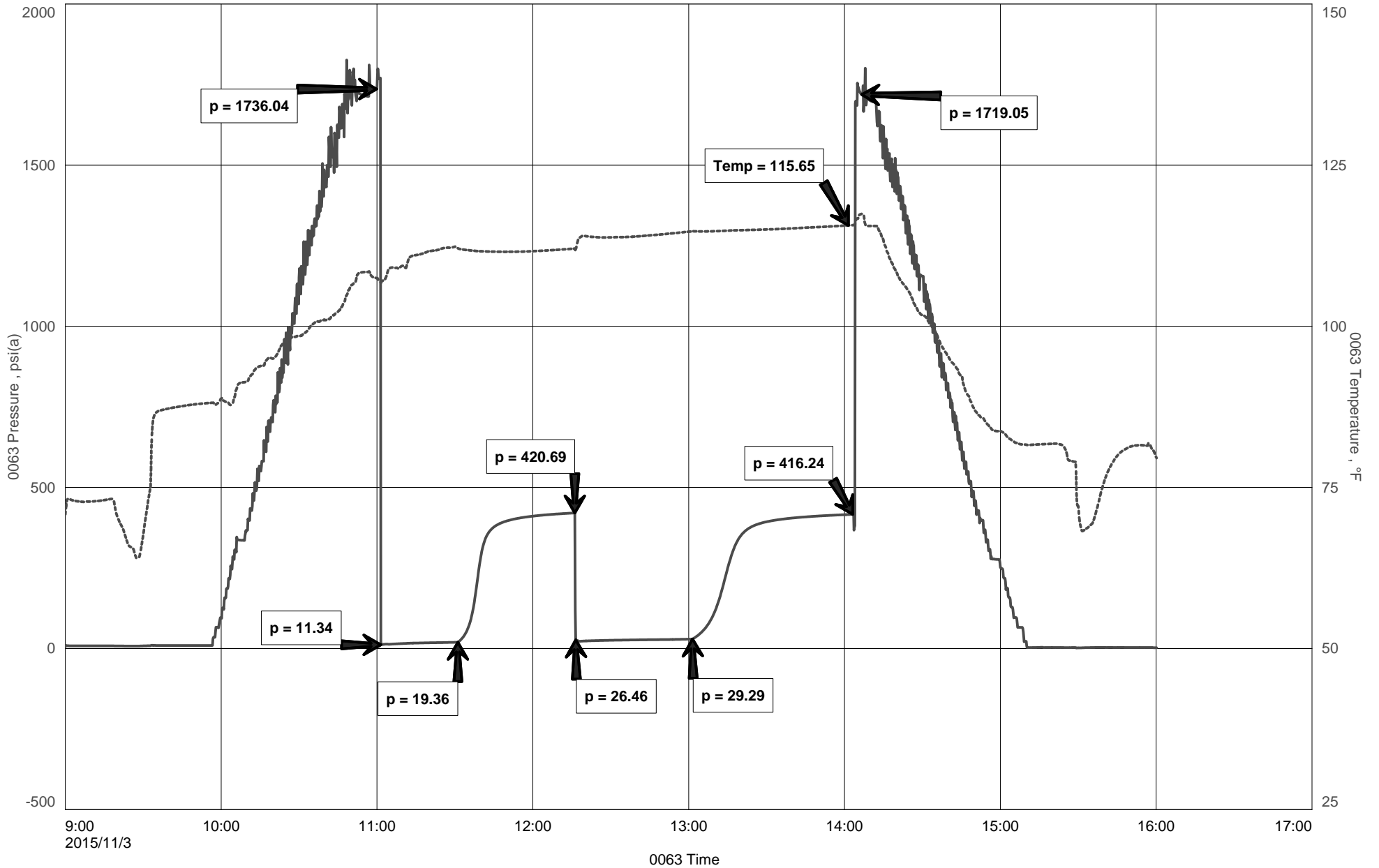
CHLOR: 16,000 PPM
PH:8.0
RW: .34 @ 84 DEG

TOOL SAMPLE: 22% OIL, 30% WTR, 48% MUD

#4-31 DARREL
DST#2 3705-3725 LANSING 'B'
Start Test Date: 2015/11/03
Final Test Date: 2015/11/03

#4-31 DARREL
Formation: DST#2 3705-3725 LANSING 'B'
Pool: WILDCAT
Job Number: M801

#4-31 DARREL





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 4-31DRRLDST3

TIME ON: 0145
TIME OFF: 0910

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
Elevation 2645 KB Formation LANS D-E Effective Pay _____ Ft. Ticket No. M802
Date 11/4/2015 Sec. 31 Twp. 19 S Range 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 3724 ft. to 3785 ft. Total Depth 3785 ft.
Packer Depth 3719 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3724 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3706 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3726 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth 3782 ft. Recorder Number 6448 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 61 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 1,200 P.P.M. Drill Pipe Length 3692 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 61 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (32' DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SSB, BOB 22 MIN. (NO BB)
2nd Open: WSB, BOB 40 MIN. (NO BB)

Recovered 300 ft. of VSOSMW 77% WTR, 23% MUD, SOME SPECKS OF OIL
Recovered 300 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of <u>RW: .18 @ 62 DEG</u>	Price Job
Recovered _____ ft. of <u>PH: 7.0</u>	Other Charges
Remarks: <u>CHLOR: 44,000 PPM</u>	Insurance
<u>TOOL SAMPLE: 4% OIL, 94% WTR, 2% MUD</u>	Total

Time Set Packer(s) 3:30 A.M. A.M. P.M. Time Started Off Bottom 6:30 A.M. A.M. P.M. Maximum Temperature 126°F

Initial Hydrostatic Pressure..... (A) 1746 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 80 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 882 P.S.I.
Final Flow Period..... Minutes 45 (E) 82 P.S.I. to (F) 151 P.S.I.
Final Closed In Period..... Minutes 60 (G) 622 P.S.I.
Final Hydrostatic Pressure..... (H) 1725 P.S.I.

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DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	#4-31 DARREL	Job Number	M802
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#3 3724-3785 LANS D-E	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/04
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 3724-3785 LANS D-E		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/04	Start Test Time	01:45:00
Final Test Date	2015/11/04	Final Test Time	09:10:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
300' VSOSMW 77% WTR, 23% MUD, SOME SPECKS OF OIL
300' TOTAL FLUID

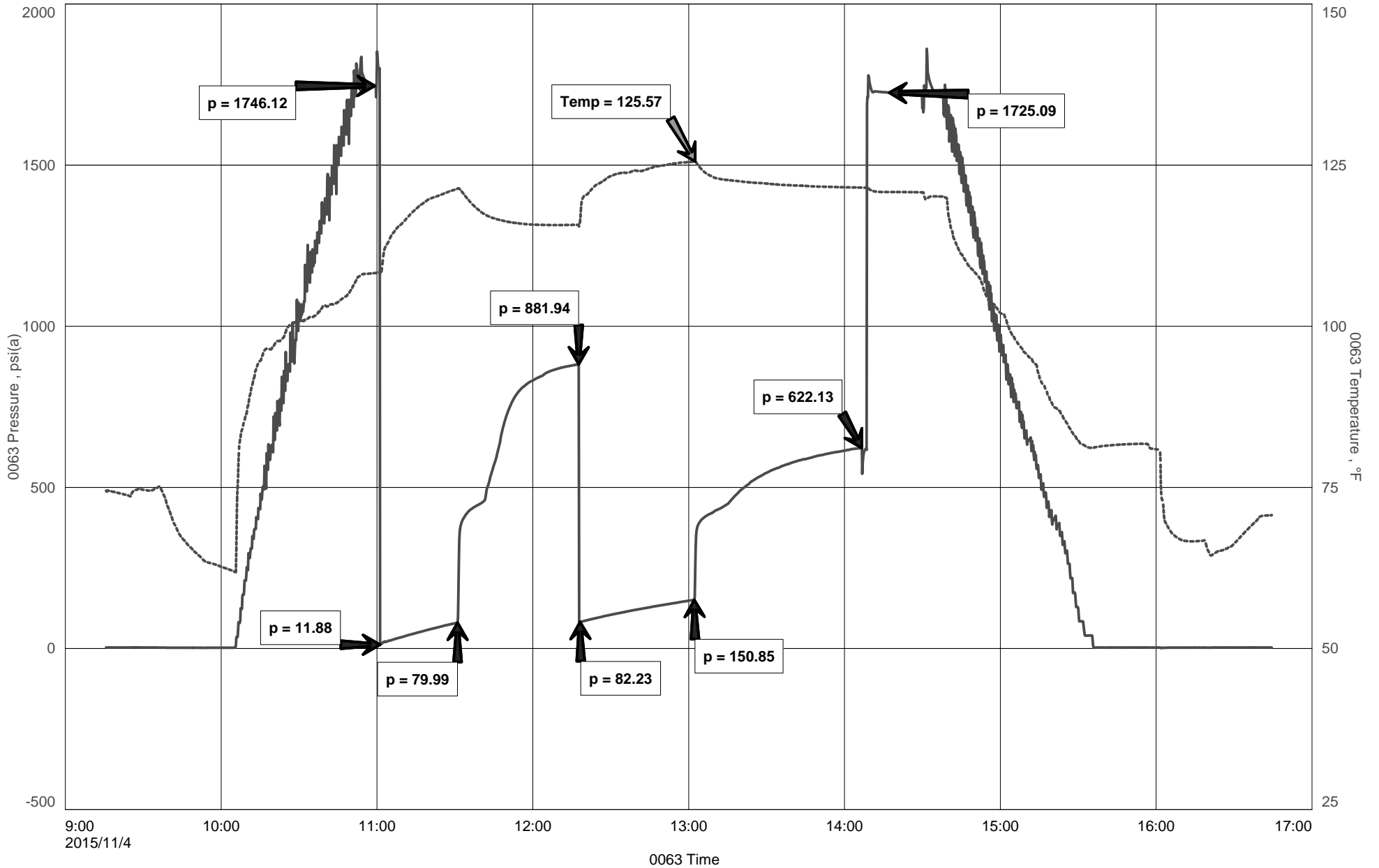
CHLOR: 44,000 PPM
PH:7.0
RW: .18 @ 62 DEG

TOOL SAMPLE: 4% OIL, 94% WTR, 2% MUD

#4-31 DARREL
DST#3 3724-3785 LANS D-E
Start Test Date: 2015/11/04
Final Test Date: 2015/11/04

#4-31 DARREL
Formation: DST#3 3724-3785 LANS D-E
Pool: WILDCAT
Job Number: M802

#4-31 DARREL



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	#4-31 DARREL	Job Number	M803
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#4 3850-3955 L/KC H-K	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/05
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 3850-3955 L/KC H-K		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/04	Start Test Time	17:25:00
Final Test Date	2015/11/05	Final Test Time	05:30:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

110' VSOSGWM 2% GAS, 30% WTR, 68% MUD W/ A VERY THIN SCUM OF OIL
~1' G0 25% GAS, 74% OIL
444' SOSGMW 2% GAS, 1% OIL, 79% WTR, 18% MUD
555' TOTAL FLUID

GRAVITY: 35.8 @ 60 DEG

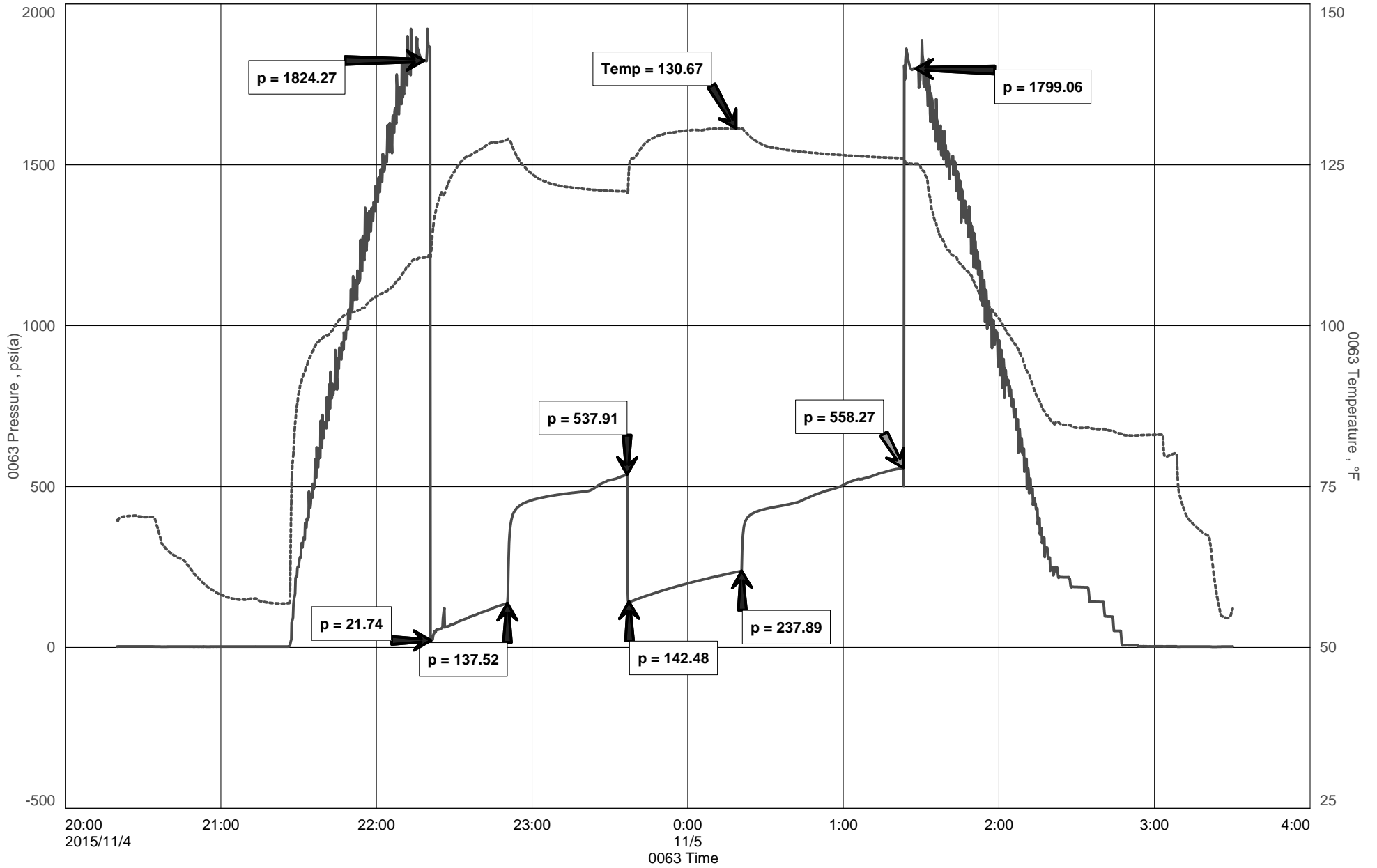
CHLOR: 42,000 PPM
PH:7.0
RW: .28 @ 40 DEG

TOOL SAMPLE: 1% GAS, 2% OIL, 77% WTR, 20% MUD

#4-31 DARREL
DST#4 3850-3955 L/KC H-K
Start Test Date: 2015/11/04
Final Test Date: 2015/11/05

#4-31 DARREL
Formation: DST#4 3850-3955 L/KC H-K
Pool: WILDCAT
Job Number: M803

#4-31 DARREL





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 4-31DRRLDST5

TIME ON: 0310
TIME OFF: 1040

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
Elevation 2645 KB Formation ALTO/MYRICK Effective Pay _____ Ft. Ticket No. M804
Date 11/6/2015 Sec. 31 Twp. _____ 19 S Range _____ 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 5 Interval Tested from 4100 ft. to 4180 ft. Total Depth 4180 ft.
Packer Depth 4095 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4100 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4082 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4102 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth 4177 ft. Recorder Number 6448 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 56 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 4068 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 80 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: SSB, BUILT TO 5" (NO BB)
2nd Open: WSB, BUILT TO 4" (NO BB)

Recovered ~1/2 ft. of ABOUT ONE HALF FOOT FREE OIL 100% OIL
Recovered 40 ft. of VSOSWM 2% WTR, 98% MUD, W/ A THIN SCUM OF OIL
Recovered 21 ft. of GOM 4% GAS, 96% EMULSIFIED OIL & MUD
Recovered 61 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>PH: 7.0</u>	Other Charges
Remarks: <u>CHLOR: 14,000 PPM</u>	Insurance
<u>TOOL SAMPLE: 2% GAS, 4% FREE OIL, 40% EMULSIFIED OIL, 19% WTR, 35% MUD</u>	Total

Time Set Packer(s) 5:30 A.M. A.M. P.M. Time Started Off Bottom 8:30 A.M. A.M. P.M. Maximum Temperature 124°F

Initial Hydrostatic Pressure..... (A) 1945 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 28 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 473 P.S.I.
Final Flow Period..... Minutes 45 (E) 29 P.S.I. to (F) 42 P.S.I.
Final Closed In Period..... Minutes 60 (G) 467 P.S.I.
Final Hydrostatic Pressure..... (H) 1901 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

Pressure Survey Report

General Information

Company Name	#4-31 DARREL	Job Number	M804
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#5 4100-4180 ALTO/MYRICK	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/06
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#5 4100-4180 ALTO/MYRICK		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/06	Start Test Time	03:10:00
Final Test Date	2015/11/06	Final Test Time	10:40:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

ABOUT ONE HALF FOOT FREE OIL 100% OIL
40' VSOSWM 2% WTR, 98% MUD, W/ A THIN SCUM OF OIL
21' GOM 4% GAS, 96% EMULSIFIED OIL & MUD
61' TOTAL FLUID

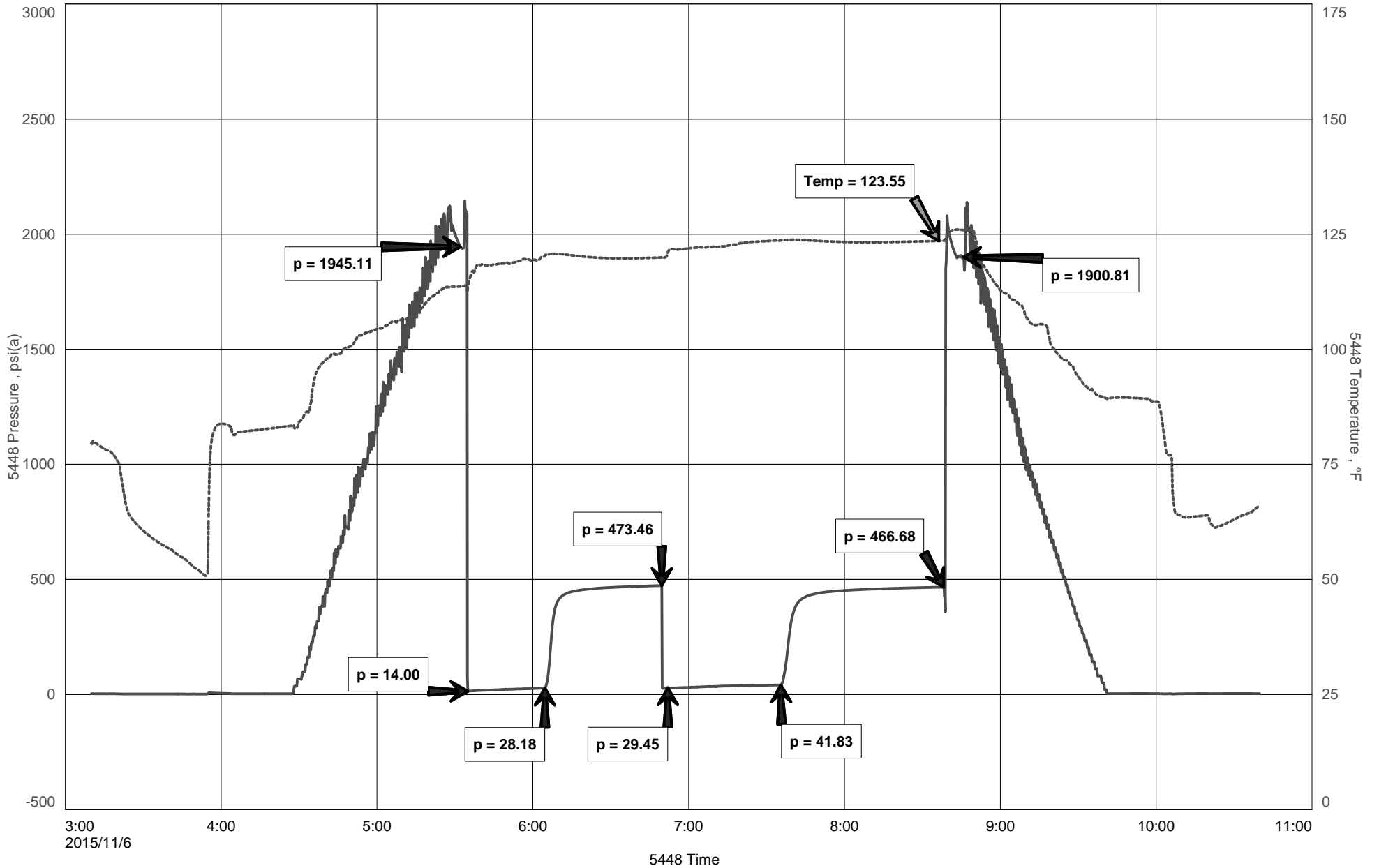
CHLOR: 14,000 PPM
PH:7.0

TOOL SAMPLE: 2% GAS, 4% FREE OIL, 40% EMULSIFIED OIL, 19% WTR, 35% MUD

#4-31 DARREL
DST#5 4100-4180 ALTO/MYRICK
Start Test Date: 2015/11/06
Final Test Date: 2015/11/06

#4-31 DARREL
Formation: DST#5 4100-4180 ALTO/MYRICK
Pool: WILDCAT
Job Number: M804

#4-31 DARREL





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 4-31DRRLDST6

TIME ON: 2155 (11/6)
TIME OFF: 0610 (11/7)

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
Elevation 2645 KB Formation FORT SCOTT/JOHNSON Effective Pay _____ Ft. Ticket No. M805
Date 11/6/2015 Sec. 31 Twp. _____ 19 S Range _____ 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 6 Interval Tested from 4178 ft. to 4270 ft. Total Depth 4270 ft.
Packer Depth 4173 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4178 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4160 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4180 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 52 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9/4 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,500 P.P.M. Drill Pipe Length 4146 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 92 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: SSB, BOB 8 MIN (NO BB)
2nd Open: SSB, BOB 12 MIN (NO BB)

Recovered 356 ft. of GIP
Recovered 152 ft. of GHOCM 4% GAS, 51% EMULSIFIED OIL & MUD, 45% MUD
Recovered 191 ft. of GHOCWM 12% GAS, 74% EMULSIFIED OIL & MUD, 12% WTR, 2% MUD
Recovered 343 ft. of TOTAL FLUID

Recovered _____ ft. of <u>RW: . @ DEG</u>	Price Job
Recovered _____ ft. of <u>PH:</u>	Other Charges
Remarks: <u>CHLOR: PPM</u>	Insurance
<u>TOOL SAMPLE: 10% GAS, 12% FREE OIL, 41% EMULSIFIED OIL & MUD, 13% WTR, 24% MUD</u>	Total

Time Set Packer(s) 12:30 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 3:30 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 129°F

Initial Hydrostatic Pressure..... (A) 2143 P.S.I.
Initial Flow Period..... Minutes 30 (B) 61 P.S.I. to (C) 108 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 906 P.S.I.
Final Flow Period..... Minutes 45 (E) 104 P.S.I. to (F) 165 P.S.I.
Final Closed In Period..... Minutes 60 (G) 876 P.S.I.
Final Hydrostatic Pressure..... (H) 2011 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

Pressure Survey Report

General Information

Company Name	#4-31 DARREL	Job Number	M805
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#6 4178-44270 FORT SCOTT/JOHNSON	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/07
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#6 4178-44270 FORT SCOTT/JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/06	Start Test Time	21:55:00
Final Test Date	2015/11/07	Final Test Time	06:10:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

356' GIP
152' GHOCM 4% GAS, 51% EMULSIFIED OIL & MUD, 45% MUD
191' GHOCWM 12% GAS, 74% EMULSIFIED OIL & MUD, 12% WTR, 2% MUD
343' TOTAL FLUID

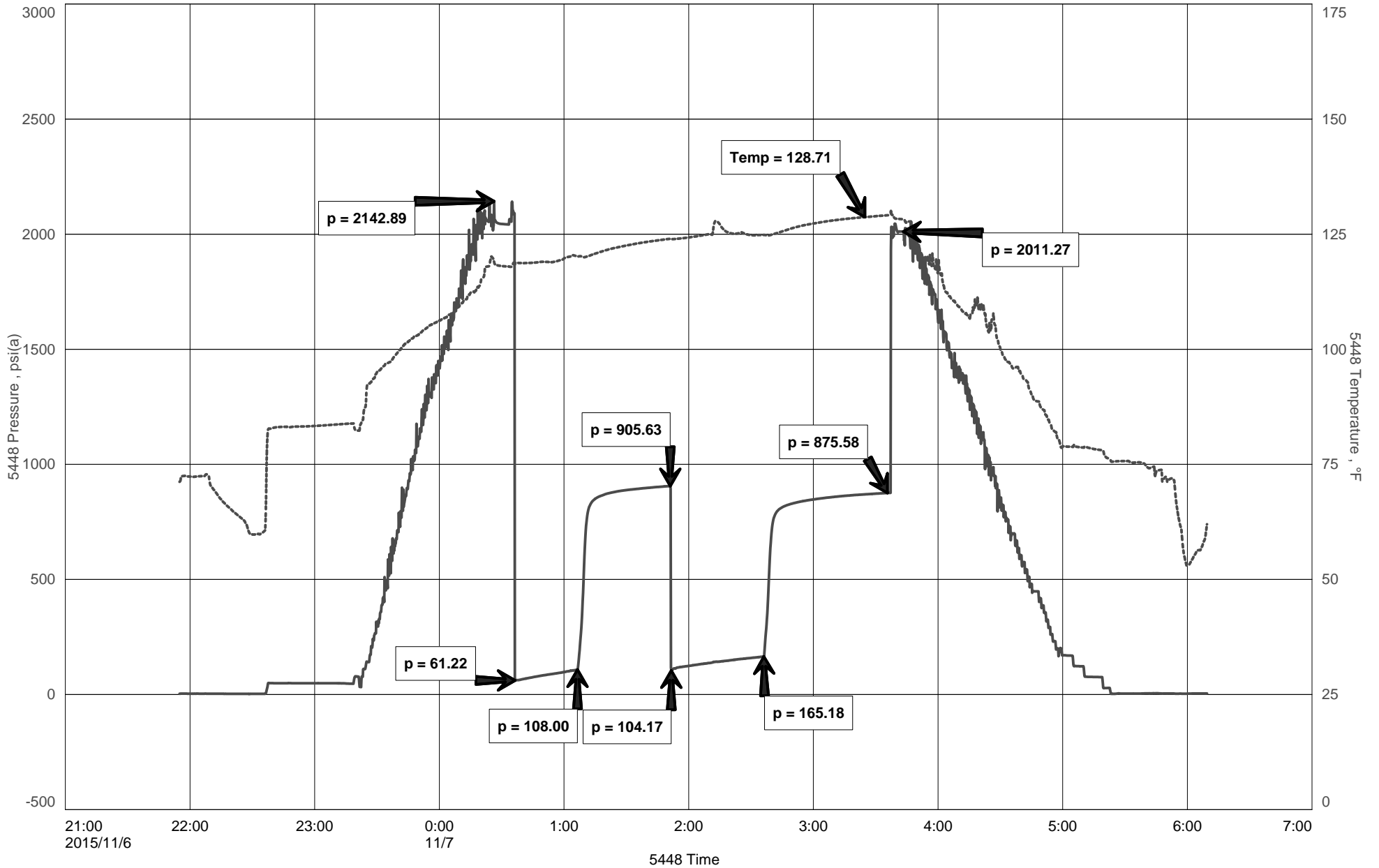
CHLOR: 15,000 PPM
PH:7.0

TOOL SAMPLE: 10% GAS, 12% FREE OIL, 41% EMULSIFIED OIL & MUD, 13% WTR, 24% MUD

#4-31 DARREL
DST#6 4178-44270 FORT SCOTT/JOHNSON
Start Test Date: 2015/11/06
Final Test Date: 2015/11/07

#4-31 DARREL
Formation: DST#6 4178-44270 FORT SCOTT/JOHNSON
Pool: WILDCAT
Job Number: M805

#4-31 DARREL





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 4-31DRRLDST7

TIME ON: 1740 (11/7)
TIME OFF: 0155 (11/8)

Company L.D. DRILLING, INC. Lease & Well No. #4-31 DARREL
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
Elevation 2645 KB Formation MISS SAND Effective Pay _____ Ft. Ticket No. M806
Date 11/7/2015 Sec. 31 Twp. 19 S Range 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 7 Interval Tested from 4300 ft. to 4333 ft. Total Depth 4333 ft.

Packer Depth 4295 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4300 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4282 ft. Recorder Number 5448 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4302 ft. Recorder Number 0063 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth 4330 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 54 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,400 P.P.M. Drill Pipe Length 4268 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 33 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: WSB, BUILT TO 1 1/2" (NO BB)

2nd Open: VWSB THAT DIED AFTER 35 MIN (NO BB)

Recovered 5 ft. of GM 100% MUD W/ SOME GASSY BUBBLES & A SHOW OF OIL IN TOP OF TOOL

Recovered 5 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: 1% OIL, 99% MUD W/ SOME GASSY BUBBLES

Time Set Packer(s) 8:30 P.M. ^{A.M.} P.M. Time Started Off Bottom 11:30 A.M. ^{A.M.} P.M. Maximum Temperature 128°F

Initial Hydrostatic Pressure..... (A) 2042 P.S.I.

Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 15 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 843 P.S.I.

Final Flow Period..... Minutes 45 (E) 16 P.S.I. to (F) 16 P.S.I.

Final Closed In Period..... Minutes 60 (G) 736 P.S.I.

Final Hydrostatic Pressure..... (H) 2007 P.S.I.

Price Job
Other Charges
Insurance
Total

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

Pressure Survey Report

General Information

Company Name	#4-31 DARREL	Job Number	M806
Well Name	#4-31 DARREL	Representative	MIKE COCHRAN
Unique Well ID	DST#7 4300-4333 MISS SAND	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.31-19S-29W GOVE CO.KS.	Report Date	2015/11/08
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#7 4300-4333 MISS SAND		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/11/07	Start Test Time	17:40:00
Final Test Date	2015/11/08	Final Test Time	01:55:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

5' GM 100% MUD W/ SOME GASSY BUBBLES & A SHOW OF OIL IN TOP OF TOOL
5' TOTAL FLUID

TOOL SAMPLE: 1% OIL, 99% MUD W/ SOME GASSY BUBBLES

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

318-584-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE # 4-31 DARREL

FIELD LUNDGREN

LOCATION 1800' FWL & 2310' FSL

SEC 31 TWP 14s RGE 29W

COUNTY GOVE STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 10-29-15 DOWP 11-9-15

RTD 4420 LTD 4424

MUD UP 3405 TYPE MUD CHEMICAL

ELEVATIONS

KR 2645

DT

CI 2640

Measurements Are All
From 2645 KB

CASING

SURFACE 8 5/8" @ 314'

PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS

DUAL IND., DENS-N., MICRO

SAMPLES SAVED FROM 3300 TO 4420

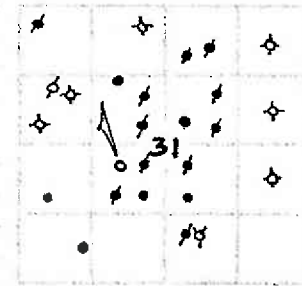
DRILLING TIME KEPT FROM 3200 TO 4420

SAMPLES EXAMINED FROM 3300 TO 4420

GEOLOGICAL SUPERVISION FROM 3600 TO 4420

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		2044 + 601
BI ANH.		2073 + 572
STOTLER		3276 - 631
HEEBNER		3648 - 1003
LANSING		3684 - 1039
STARK		3934 - 1289
MARMATON		4030 - 1385
FORT SCOTT		4184 - 1539
CHEROKEE		4208 - 1563
MISS. SPERGEN		4319 - 1674



ARI: 15-063-22270

REMARKS
10-29-15 SPUD
10-30 @ 317'
10-31 @ 1625'
11-1 @ 2745'
11-2 @ 3285'
11-3 @ 3725'
11-4 @ 3785'
11-5 @ 3955'
11-6 @ 4180'
11-7 @ 4270'
11-8 @ 4357'
11-9 @ 4420'

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb in Limestone
- Col. Lime
- Chert
- Dolomite

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration (inches per minute)



LITHOLOGY

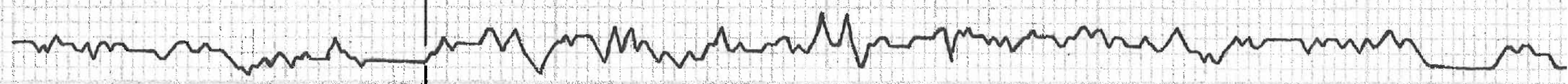
REMARKS

4100

3200

3300

3400



Samples are Lagged

STOTLER 3276-631

NOT RECORDED

50. REL. CALY. 15. In. 510. Foss

50. RELY. 15. 107. 1510. Foss. 50. A.

50. RELY. 15. 107. 1510. Foss. 15. 107. 1510. Foss.

50. RELY. 15. 107. 1510. Foss.

50. RELY. 15. 107. 1510. Foss. 15. 107. 1510. Foss.

SAMPLES TO LAGGED

50. G.

15. G. 1510. Foss

15. 107. CALY.

15. 107. Foss. 510. CALY.

15. 107. CALY. Foss. 510. Foss. CALY.

ONE 510

LS. Ltg. VSI. chly.

MUNCIE CREEK 3846-1201

Sh. Blk. Carb.
LS. Blk. Carb. VSI. Foss.
Sh. Silty.
A. white and Trade Str. T. Pa.
LS. Top of Silty VSI. F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
LS. To VSI. A
Sh. DE. L.
LS. Ltg. VSI. Foss.
Sh. Ltg.

3900

LS. Top of Bl. Silty Silty F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
Sh. Ltg.
LS. Top of Bl. Silty Silty F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
Sh. Ltg.
LS. Top of Bl. Silty Silty F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
Sh. Ltg.
LS. Top of Bl. Silty Silty F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
Sh. Ltg.

STARK 3934-1281

Sh. Blk. Carb. L. DE. Bl. Silty Foss.
Sh. Ltg.
LS. Bl. Carb. F. Fly of Bl. Silty Silty Silty
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
LS. Top of Bl. Silty Silty
Sh. Ltg.

HUSHPOCKNEY 3971-1326

Sh. Blk. Carb.
LS. Bl. Carb. VSI. Foss.
LS. Ltg. VSI. Foss. VSI. A
LS. Top of VSI. Foss. Silty
Sh. Ltg.

4000

B/MC 4008-1363

Sh. Ltg.
Sh. Bl. Carb. Silty

MARMATON 4030-1385

LS. Top of Silty Silty F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
Sh. Ltg.
Sh. Bl. Carb. Silty

V206
NIS: 50
NIS: 91
NIS: 96
NIS: 2000

4100

PANNEE 4124-1419

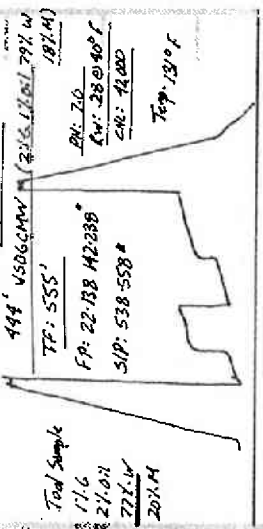
LS. Top of VSI. Foss. Silty
Sh. Ltg.
LS. Top of Bl. Silty Silty F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
LS. Top of Bl. Silty Silty F. Fly of
Dk. Bl. Silty Silty Silty
FSD. Full Floor. F. 600.
Sh. Ltg.

DST (4) 3850-3955

15' Open: Bottom bucket 10 min. 88: Above 88:
2' OPEN: " 22 "

30-45-45-60

Rec. 1' CO. GRAN. 35.8 @ 60 °F
110' SG WM (2 1/2, 307, 687 M)
w/ Storm



TP: 555'

FP: 22-138 42238

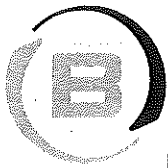
SIP: 538-558 *

Top 13' °F

DST (5) 4100-4180

15' Open: Bottom bucket 10 min. 88: Above 88:
2' OPEN: " 22 "

Sh. Blk. Carb.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201
31-14-29

FIELD SERVICE TICKET
1718 12586 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>11/9/2015</u> DISTRICT <u>Pratt, KS</u>		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>LD Drilling, Inc</u>		LEASE <u>D9rrei</u> WELL NO. <u>431</u>							
ADDRESS		COUNTY <u>Gove</u> STATE <u>KS</u>							
CITY STATE		SERVICE CREW <u>Dgrin, Ed, Simple, Martinez</u>							
AUTHORIZED BY		JOB TYPE: <u>CNW / 5 1/2 2 Stage Longstring</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>86779</u>	<u>3</u>						<u>11/9</u>	<u>AM</u>	<u>8:30</u>
<u>21610</u>	<u>1</u>					ARRIVED AT JOB	<u>11/9</u>	<u>AM</u>	<u>3:00</u>
<u>19860</u>	<u>1</u>					START OPERATION	<u>11/9</u>	<u>AM</u>	<u>5:45</u>
						FINISH OPERATION	<u>11/9</u>	<u>AM</u>	<u>8:45</u>
						RELEASED	<u>11/9</u>	<u>AM</u>	<u>9:30</u>
						MILES FROM STATION TO WELL			<u>180</u>

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: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	A102 Cement	SK	175		2,975 00
CP101	A-Con Blend	SK	300		5,400 00
CP103	60/40 P02	SK	30		360 00
CC102	Cellofloc	Lb	119		440 30
CC109	Calcium Chloride	Lb	846		888 30
CC111	SG12	Lb	954		477 00
CC113	Gypsum	Lb	825		618 75
CC129	FLA-322	Lb	132		990 00
CC201	Gilsonite	Lb	1054		706 18
CF401	Two Stage Cement Collar, 5 1/2 (Red)	ES	1		6,100 00
CF601	5 1/2 Latch Down PWS & Assembly (Red)	ES	1		850 00
CF1051	Cementing Shoe Picker Type, 5 1/2 (Blue)	ES	1		3,800 00
CF1901	5 1/2" B Sucker (Blue)	ES	2		580 00
CF1651	Turbolizer, 5 1/2 (Blue)	ES	7		770 00
CC151	Mud Flush	Gal	1,000		1,000 00
E100	unit mileage chrsse-pickups, shills & csts	Mi	100		450 00
E101	Hesvy Equipment Milese	Mi	300		3,250 00
E113	Proppant gas Bulk Delivery chrsers, person mile	Ton/M	2365		5,912 50
CE205	Depn chrsse; 4001-5000	4hr	1		3,570 00
SUB TOTAL					

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>44</u>

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
---	---

FIELD SERVICE ORDER NO.

Stage #1

Customer LD Drilling, Inc.	Lease No.	Date 11/9/2015
Lease Derrel	Well # 4-31	
Field Order # 12586	Station Pratt, KS	Casing 5 1/2
		Depth 4413
		County Gove
		State KS
Type Job CNW/2-stage Longstrips 5 1/2	Formation TD-4420	Legal Description 31-14-29

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 4413	Depth	From	To	Pre Pad		Max		5 Min.
Volume 105	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 4399	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative Rick	Station Manager Kevin Gordley	Treater Darin Foshkia
-------------------------------------	--------------------------------------	------------------------------

Service Units	92911	78982	86779	19955	21010	19903	19860				
Driver Names	Darin	Ed	Ed								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00pm					on location / safety meetings C-1,3,5,7,9,11 B-4,57 DU Tool - 2114' #57 175sic lb cement, 10% SS10, 10% Gypsum + 8% PLB-322, 1/4 HCell 1515, 6# Gilsonite 14.8 pps, 1.54 velle, 6.52 water Pipe on bottom & Break circulation
5:45pm	300		20	5	Pump 20 bbls mud flush
	300		5	5	Pump 5 bbls water
	300		48	5	mix 175 sic lb 2
					Shut down
					Wash pump & lines, Drop 1st stage plug
	150		0	6	Stage displacement
	500		85	6	Little pressure
	700		97	3	slow rate
6:20pm	1500		103	3	Bump plug & PSI test casing Release PSI
					Drop opening plug
	800		1/2	1/4	open DU tool Circulate 2 hrs

ST 950 #2

Customer LD Drilling, Inc	Lease No.	Date 11/9/2015		
Lease Dsrrei	Well # 4-31			
Field Order # 12586	Station Pratt, KS	Casing 5 1/2	Depth 4413	County Gove State KS
Type Job CNW/5 1/2 2-Stage Longstrings	Formation TD-4420	Legal Description 31-14-29		

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

Customer Representative	Station Manager	Treater
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					300 SIC A-con Blend, 3% OAC, 1 1/4 # Cellulose 11.6 DPG, 2.77 Vell, 16.75 water
7:45pm	200		148	5	mix 300 SIC A-con shut down wash pump & lines
	200			6	stage displacement
	400			3	slow rate
8:30pm	1200			3	Bump plug & close tool Release - Hold
					Job complete / Dsrrei & crew Thsnk you!!!
					Circulate 60 SIC cement

Customer <i>b.o. Drally</i>	Lease No.	Date <i>10-29-15</i>			
Lease <i>DARREH</i>	Well # <i>4-31</i>				
Field Order # <i>12914</i>	Station <i>PR4H</i>	Casing <i>8 5/8</i>	Depth <i>317</i>	County <i>GOVE</i>	State <i>KS</i>
Type Job <i>CNW 8 5/8 Surface</i>	Formation	Legal Description <i>31-14-29</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>317</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>19</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>300</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>Swiye</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>297'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 78982 86779 70959 73768</i>		
Driver Names <i>Sullivan Franklin Metal</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:00</i>					<i>ON LOC</i>
					<i>CASING ON BOTTOM</i>
					<i>CIRC w/Rig</i>
<i>8:15</i>			<i>3</i>	<i>45</i>	<i>St SPACER</i>
				<i>5</i>	<i>mix cmt 300 sk 1/40 P12 2% spm 3% cc 4cc</i>
			<i>64</i>		<i>cmt mixed</i>
				<i>5</i>	<i>St Disp</i>
<i>8:45</i>			<i>19</i>		<i>plug down</i>
					<i>CIRC 10 BBC out Pit</i>
					<i>JOB Complete</i>
					<i>Thanky</i>