



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1234100
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: _____



1234100

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	KORIEL UNIT 1-22
Doc ID	1234100

All Electric Logs Run

COMPENSATED DENSITY / NEUTRON LOG
DUAL INDUCTION LOG
MICRO LOG
SONIC LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	KORIEL UNIT 1-22
Doc ID	1234100

Tops

Name	Top	Datum
ANHYDRITE	869	+1056
BASE ANHYDRITE	899	+1026
TOPEKA	2869	-944
HEEBNER	3107	-1182
TORONTO	3115	-1190
DOUGLAS	3128	-1203
BROWN LIME	3180	-1255
LANSING	3190	-1265
BASE KANSAS CITY	3390	-1465
CONGLOMERATE	3408	-1483
ARBUCKLE	3429	-1504

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	KORIEL UNIT 1-22
Doc ID	1234100

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	920	A-CONN	200	3%CC, 1/4#Cellof lake
SURFACE	12.25	8.625	24	920	COMMON	200	2%CC, 1/4 #CF
PRODUCTION Used	7.875	5.5	14	3529	COMMON	150	10% Salt, 5# Gilsonite
RATHOLE	7.875	5.5	14	3529	60/40 POZMIX	30	



Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	L D DRILLING INC	Job Number	J3309
Contact	L D DAVIS	Representative	JOHN RIEDL
Well Name	KORIEL UNIT 1-22	Well Operator	L D DRILLING INC
Unique Well ID		Report Date	2014/10/21
Surface Location	S22/18S/14W	Prepared By	JOHN RIEDL
Field		Qualified By	JIM MUSGROVE

Test Information

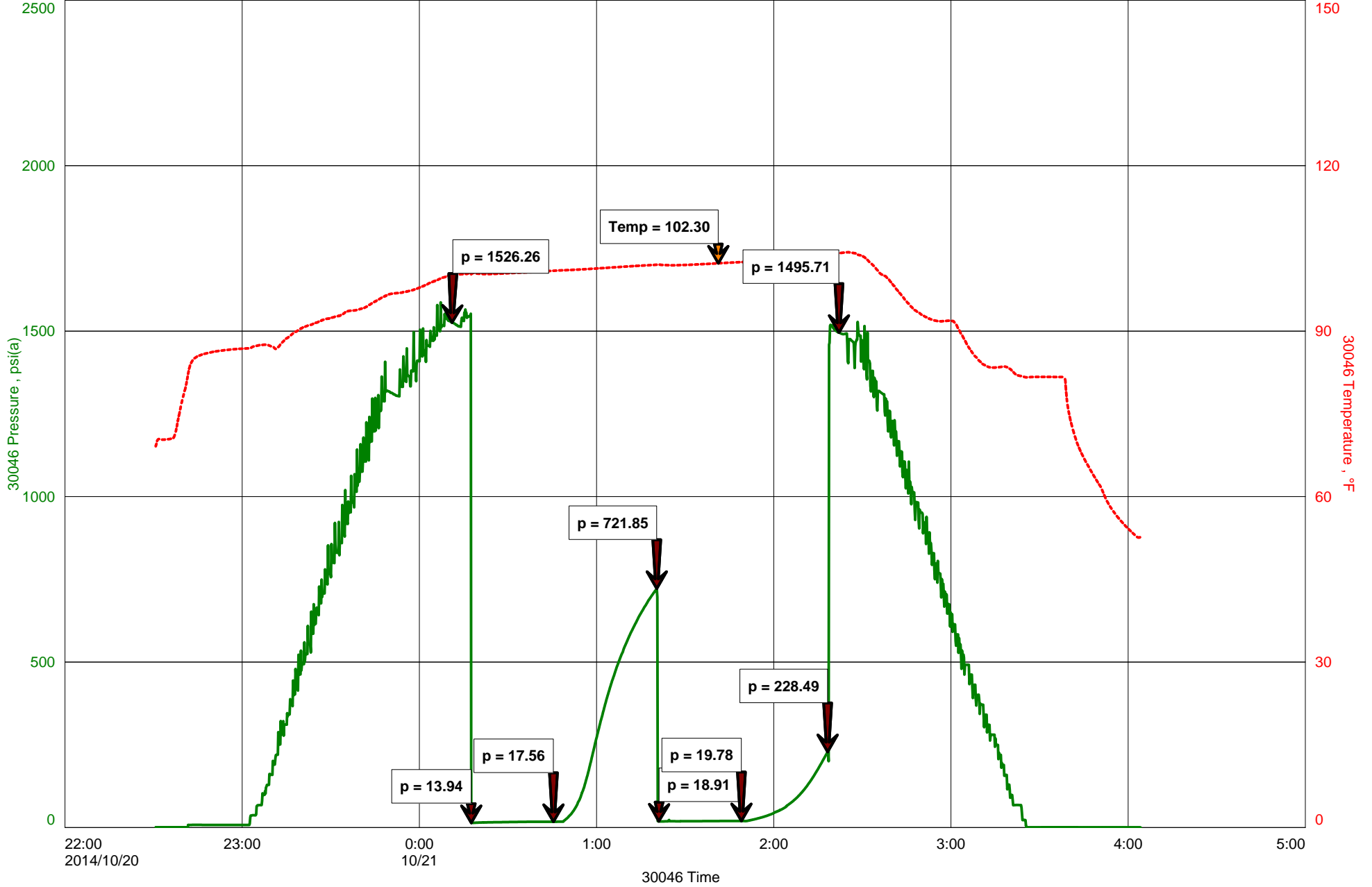
Test Type	DST #1 CONVENTIONAL
Formation	LKC A-F
Well Fluid Type	
Test Purpose	

Start Test Date	2014/10/20	Start Test Time	22:30:00
Final Test Date	2014/10/21	Final Test Time	04:00:00

Test Recovery

RECOVERY:15' DRILLING MUD

KORIEL UNIT 1-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Korielunit1-22dst1

TIME ON: 22:30 10/20/2014
TIME OFF: 04:00 10/21/2014

Company L D DRILLING INC Lease & Well No. KORIEL UNIT 1-22
Contractor PETROMARK DRILLING RIG 2 Charge to L D DRILLING INC.
Elevation _____ Formation _____ LKC A-F Effective Pay _____ Ft. Ticket No. J3309
Date 10/21/14 Sec. 22 Twp. _____ 18 S Range _____ 14 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative JOHN RIEDL

Formation Test No. 1 Interval Tested from 3181 ft. to 3254 ft. Total Depth 3254 ft.

Packer Depth 3176 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3181 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3184 ft. Recorder Number 30046 Cap. 6000 P.S.I.

Bottom Recorder Depth (Outside) 3151 ft. Recorder Number 13498 Cap. 6000 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length _____ ft. I.D. 2 1/4 in.

Weight 8.9 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.

Chlorides 5,200 P.P.M. Drill Pipe Length 3161 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 73 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 62' D.P. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1"

2nd Open: WEAK, DEAD 5 MIN.

Recovered 15 ft. of DRILLING MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID REC:15' IN PIPE

TOOL SAMPLE GRINDOUT: 100% MUD

Time Set Packer(s) 12:10 A.M A.M. P.M. Time Started Off Bottom 2:10 A.M A.M. P.M. Maximum Temperature 102

Initial Hydrostatic Pressure..... (A) 1526 P.S.I.

Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 18 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 722 P.S.I.

Final Flow Period..... Minutes 30 (E) 17 P.S.I. to (F) 20 P.S.I.

Final Closed In Period..... Minutes 30 (G) 228 P.S.I.

Final Hydrostatic Pressure..... (H) 1496 P.S.I.

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID REC:15' IN PIPE</u>	Insurance
<u>TOOL SAMPLE GRINDOUT: 100% MUD</u>	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 General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	L D DRILLING INC.	Job Number	J3310
Contact	L D DAVIS	Representative	JOHN RIEDL
Well Name	KORIEL UNIT 1-22	Well Operator	L D DRILLING INC.
Unique Well ID		Report Date	2014/10/21
Surface Location	S22/18S/14W	Prepared By	JOHN RIEDL
Field		Qualified By	JIM MUSGROVE

Test Information

Test Type	DST #2 CONVENTIONAL
Formation	LKC "H"
Well Fluid Type	
Test Purpose	

Start Test Date	2014/10/21	Start Test Time	14:00:00
Final Test Date	2014/10/21	Final Test Time	22:20:00

Test Recovery

RECOVERY: GAS TO SURFACE 10 MIN. FIRST FLOW
2200 ' GASSY OIL



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.

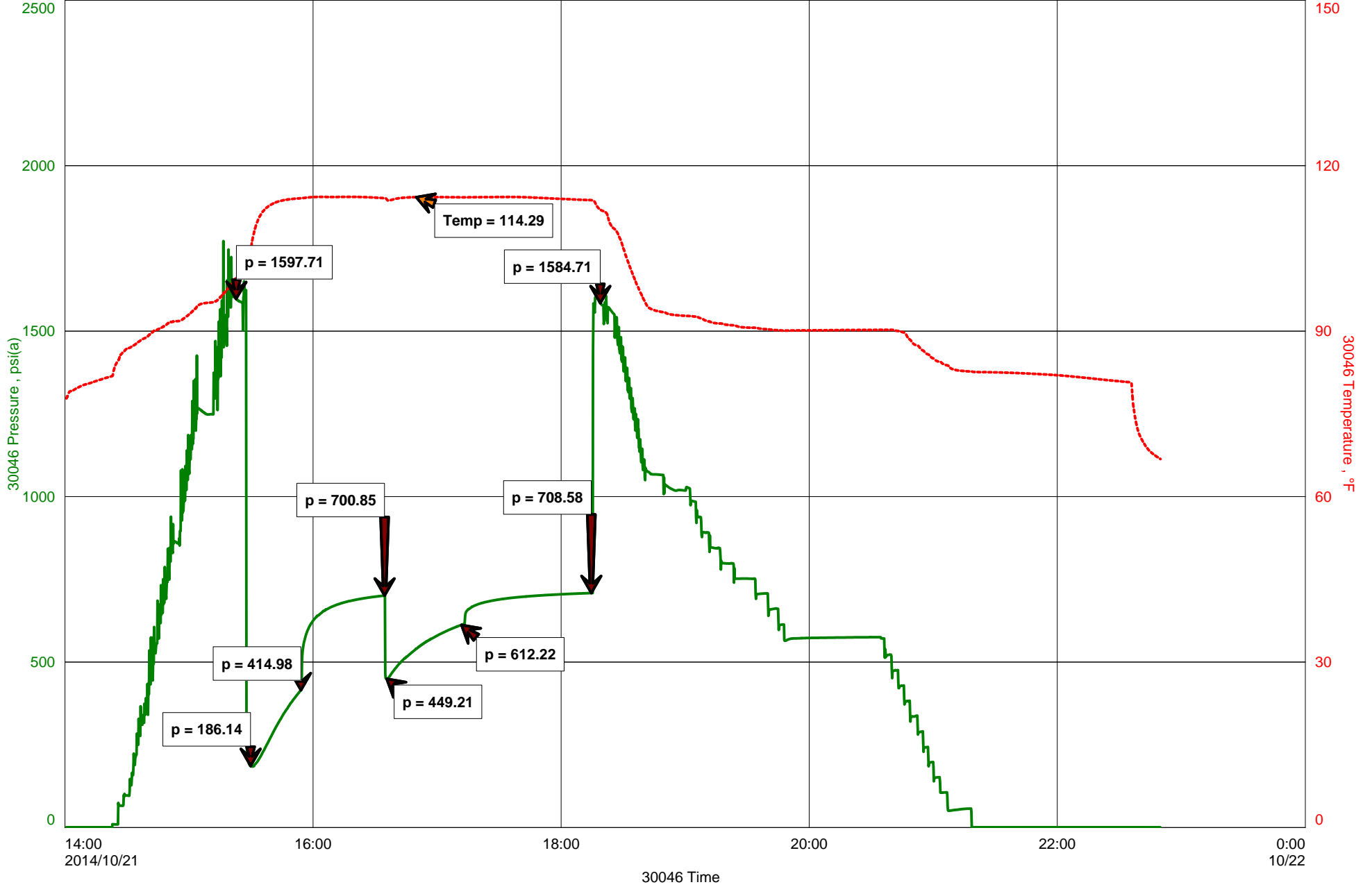
Blow: 1st Open: _____
2nd Open: _____

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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KORIEL UNIT 1-22





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Korielunit1-22dst3

TIME ON: 08:30:00 10/22/2014
TIME OFF: 14:50: 10/22/2014

Company L D DRILLING INC Lease & Well No. KORIEL UNIT 1-22
Contractor PETROMARK DRILLING RIG 2 Charge to L D DRILLING INC.
Elevation _____ Formation _____ LKC "I,J" Effective Pay _____ Ft. Ticket No. J3311
Date 10/22/14 Sec. 22 Twp. _____ 18 S Range _____ 14 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative JOHN RIEDL

Formation Test No. 3 Interval Tested from 3333 ft. to 3386 ft. Total Depth 3386 ft.
Packer Depth 3328 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3333 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3336 ft. Recorder Number 13498 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3383 ft. Recorder Number 13498 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 50 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,200 P.P.M. Drill Pipe Length 3246N ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 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. 31' DRILL PIPE Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 11 MIN.) WEAK BB
2nd Open: STRONG (B.O.B 11 MIN.) WEAK BB

Recovered 120 ft. of GAS IN PIPE
Recovered 200 ft. of MCGO (10%MUD 20%GAS 70%OIL)
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

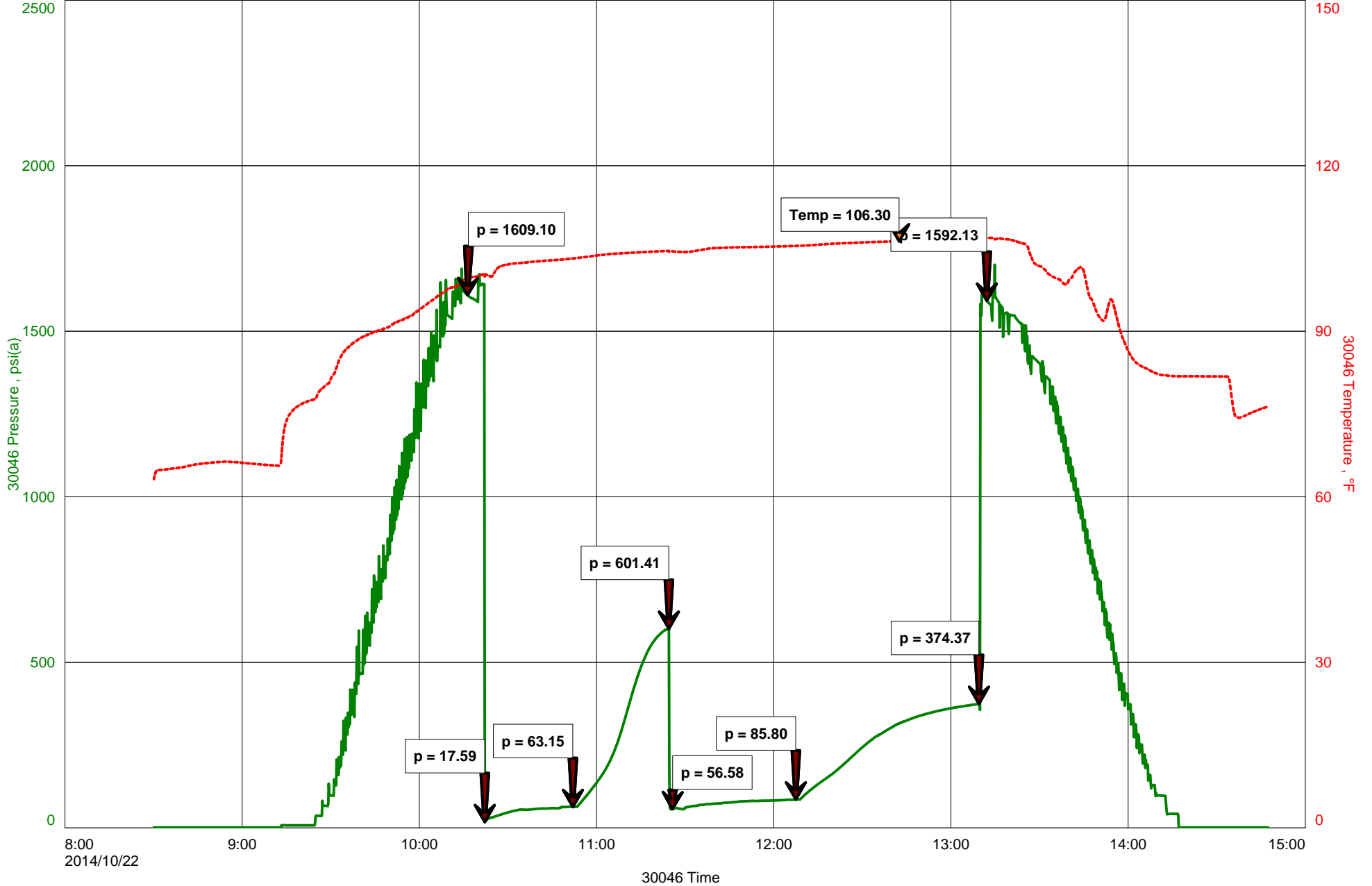
Remarks: TOTAL FLUID REC: : 200' (80' IN PIPE ' 120' DRILL COLLARS)
TOOL SAMPLE GRINDOUT: 5%MUD 15%GAS 85%OIL)
' _____
' _____

Time Set Packer(s) 10:25 A.M A.M. P.M. Time Started Off Bottom 1:10 P.M. A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1609 P.S.I.
Initial Flow Period..... Minutes 30 (B) 18 P.S.I. to (C) 63 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 601 P.S.I.
Final Flow Period..... Minutes 45 (E) 57 P.S.I. to (F) 66 P.S.I.
Final Closed In Period..... Minutes 60 (G) 374 P.S.I.
Final Hydrostatic Pressure..... (H) 1592 P.S.I.

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KORIEL UNIT 1-22





Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	L D DRILLING INC	Job Number	J3311
Contact	L D DAVIS	Representative	JOHN RIEDL
Well Name	KORIEL UNIT 1-22	Well Operator	L D DRILLING INC.
Unique Well ID		Report Date	2014/10/22
Surface Location	S22/18S/14W	Prepared By	JOHN RIEDL
Field		Qualified By	JIM MUSGROVE

Test Information

Test Type	DST #3 CONVENTIONAL
Formation	LKC "I,J"
Well Fluid Type	
Test Purpose	

Start Test Date	2014/10/22	Start Test Time	08:30:00
Final Test Date		Final Test Time	14:50:00

Test Recovery

RECOVERY: 120' GAS IN PIPE
200' SLIGHTLY MUD CUT GASSY OIL



Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	L D DRILLING INC	Job Number	J3312
Contact	L D DAVIS	Representative	JOHN RIEDL
Well Name	KORIEL UNIT 1-22	Well Operator	L D DRILLING INC
Unique Well ID		Report Date	2014/10/23
Surface Location	S22/18S/14W	Prepared By	JOHN RIEDL
Field		Qualified By	JIM MUSGROVE

Test Information

Test Type	DST #4 CONVENTIONAL
Formation	ARBUCKLE
Well Fluid Type	
Test Purpose	

Start Test Date	2014/10/23	Start Test Time	00:30:00
Final Test Date	2014/10/23	Final Test Time	07:30:00

Test Recovery

RECOVERY; 140' MUD+GAS CUT OIL



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STC/Korielunit1-22dst4

TIME ON: 00:30:00 10/23/2014
TIME OFF: 07:30: 10/23/2014

Company L D DRILLING INC Lease & Well No. KORIEL UNIT 1-22
Contractor PETROMARK DRILLING RIG 2 Charge to L D DRILLING INC.
Elevation _____ Formation ARBUCKLE Effective Pay _____ Ft. Ticket No. J3312
Date 10/22/14 Sec. 22 Twp. 18 S Range 14 W County BARTON State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative JOHN RIEDL

Formation Test No. 4 Interval Tested from 3385 ft. to 3427 ft. Total Depth 3437 ft.
Packer Depth 3380 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3385 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3388 ft. Recorder Number 13498 Cap. 6000 P.S.I.
Bottom Recorder Depth (Outside) 3434 ft. Recorder Number 13498 Cap. 6000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 10 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 7,000 P.P.M. Drill Pipe Length 3245 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number NOT REQUESTED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 52 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DRILL PIPE Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: FAIR (3") **NO BB**
2nd Open: WEAK (2") **NO BB**

Recovered 140 ft. of GMO (15%GAS 25%MUD 60%OIL)
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

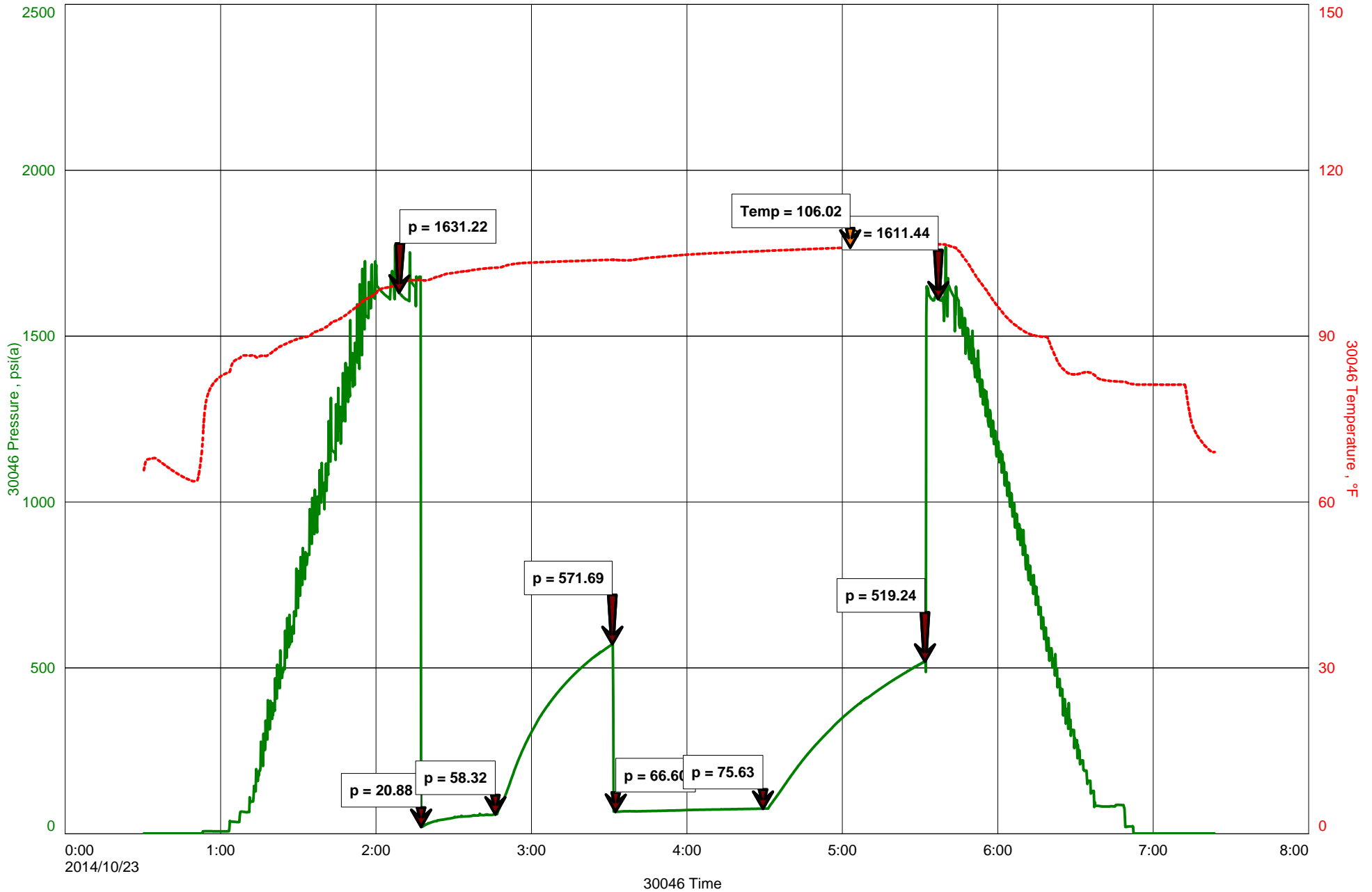
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID REC:140 (20'DRILL PIPE 120' DRILL COLLARS)</u>	Insurance
<u>TOOL SAMPLE GRINDOUT: 15%GAS 85%OIL)</u>	Total

Time Set Packer(s) 2:15 A.M. P.M. Time Started Off Bottom 5:30 A.M. P.M. Maximum Temperature 106

Initial Hydrostatic Pressure..... (A) 1631 P.S.I.
Initial Flow Period..... Minutes 30 (B) 21 P.S.I. to (C) 58 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 572 P.S.I.
Final Flow Period..... Minutes 60 (E) 67 P.S.I. to (F) 76 P.S.I.
Final Closed In Period..... Minutes 60 (G) 519 P.S.I.
Final Hydrostatic Pressure..... (H) 1611 P.S.I.

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KORIEL UNIT 1-22





Office (620) 588-4250 212 Main St. • P.O. Box 215 • Clarin, KS 67525 Home (620) 587-3444
 James C. Musgrove
 Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling Inc.

ELEVATIONS

LEASE Korick Unit #1-22

KB 1925

FIELD MAUD West

DF _____

LOCATION NE-NE-W-7NW (184' FNL 5, 1142' FWL)

GL 1920

SEC 22 TWP 18 S RGE H W

Measurements Are All From KB

COUNTY Barren STATE Kansas

CONTRACTOR Petromark Drilling Co. (right 2)

SPUD 10/16/2014 COMP 10/22/2014

SURFACE CASING 8 5/8" @ 920'
 PRODUCTION 5 1/2" @ 3029'

RTD 3550 LTD 3531

ELECTRICAL SURVEYS
 By Nabors. Dual induction,
 compensated density/normal,
 Micro & Sonic

MUD UP 2800 TYPE MUD Chemical displaced

SAMPLES SAVED FROM 2800

DRILLING TIME KEPT FROM 2800

SAMPLES EXAMINED FROM 2800

GEOLOGICAL SUPERVISION FROM 2900

GEOLOGIST ON WELL Jim Musgrove

FORMATION TOPS

LOG

SAMPLES

FORMATION TOPS	LOG	SAMPLES
Anhydrite	867 +1056	RTD 3530 - 1605
Base anhydrite	899 +1026	LTD 3531 - 1606
Topeka	2869 - 94	
Helderberg	3107 - 1182	
Toronto	3115 - 1190	
Douglas	3128 - 1203	
Shinarump	3180 - 1265	
Hansburg	3190 - 1265	
Base Kansas City	3390 - 1465	
Good limestone	3408 - 1483	
Arbuckle	3429 - 1504	

REMARKS

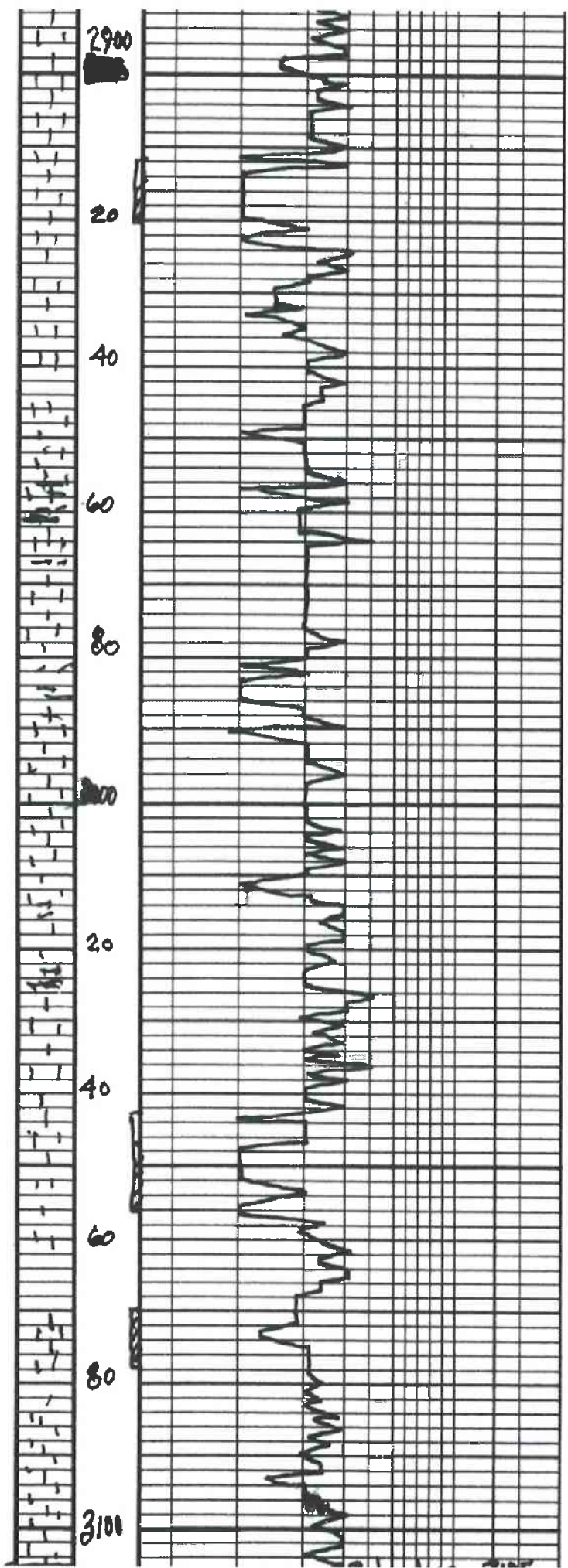
5 1/2" production casing was set & cemented on the Korick Unit #1-22!

Respectfully Submitted,
 James C. Musgrove
 Petroleum Geologist

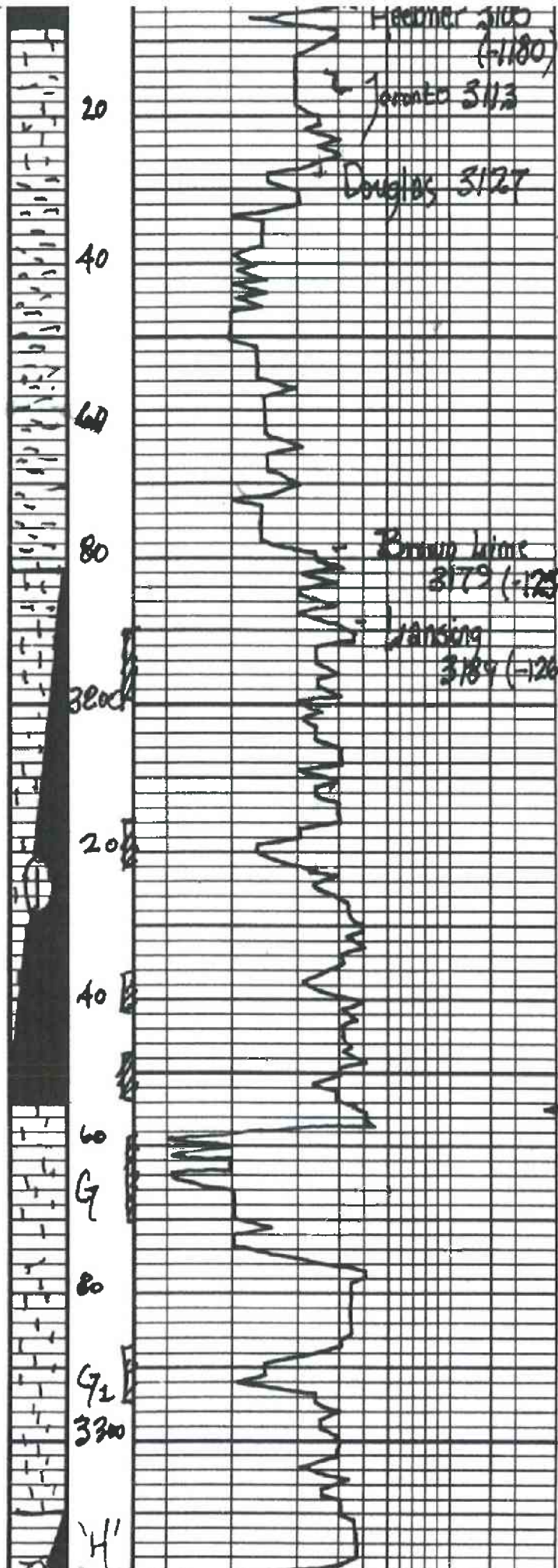


LEGEND

Anhydrite	Salt	Sandstone	Shale	Carbonaceous shale	Limestone	Oolitic Limestone	Chert	Dolomite



2900
 blk/green sh
 20
 ls/gay/blk foss, cherty
 few sub med
 } 2 + 97 A
 ls tan, wh, foss cherty
 Sparty calcite cement
 blk/gay sh
 ls, wh/gay - only few
 foss, cherty, shaly in
 part
 } 2
 } 2
 ls, tan/gay, cherty
 20
 ls, tan, fr, few med
 x.l; few g mts
 blk carb. sh.
 40
 ls, tan, wh, fr, few foss,
 fr. wh d, fr. fe de
 60
 ls, tan, med, good cement,
 ?? golden brown edge
 sh, rife, no odor
 } 2
 } 2
 ls, tan, fr, few foss
 cherty mts
 } 2
 blk, fr, grey d



blk carb. sh.

ls. tan/gry, frk, foss, chunky
ex. light brown sh, no ad.
- no odor / 1/2 hr

gry/blk - rusty brown
silty sh.

??
ditto as

??

ls. tan/brown, frk, few
foss, blk.

ls. tan/gry, frk, few foss,
slightly sil, to brown
dk brown sh, no ad.

ls. tan, silty, tan, chunky,
foss, no ad.

tan chik

ls. gry, ool/foss, chunky 1/2

ls. gry, ool/chiky, blk/gry
sh, no ad.

ls. tan, ool/foss, poor
vis; to brown sh, no ad
no odor (chunky - 1/2)

ls. gry/wht, tan, fr. blk
blk sh, 1/2-1/3, ??, odor
(black)

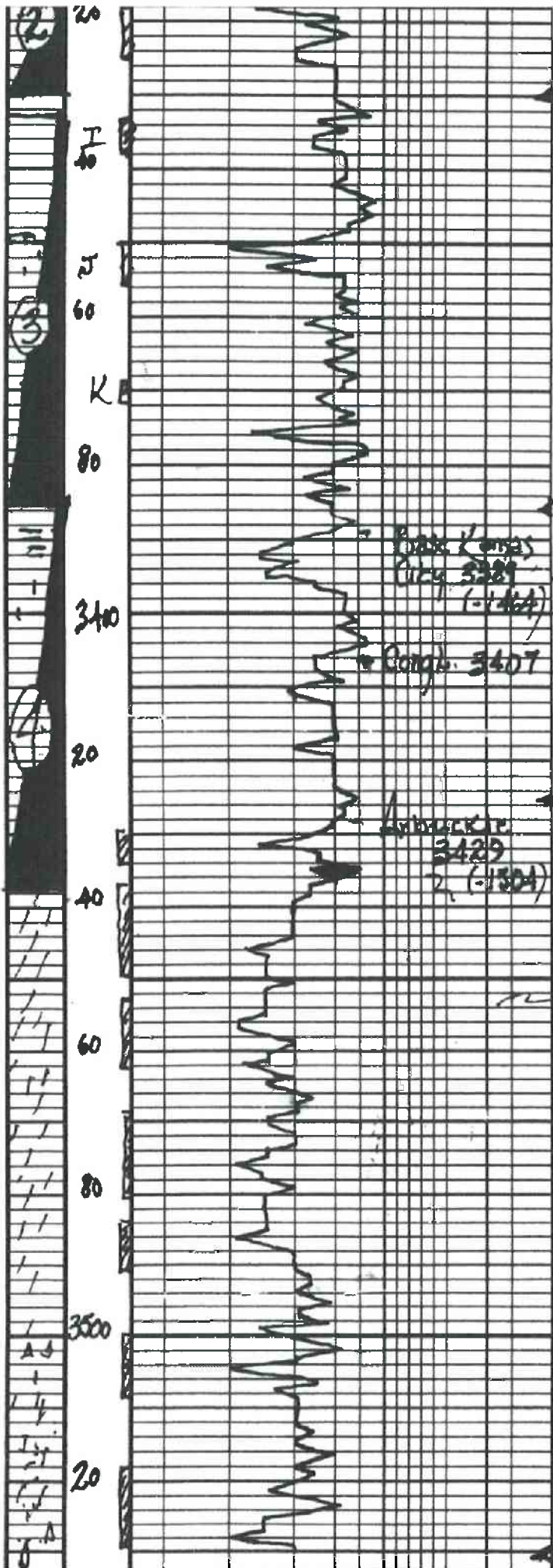
??

ls. wh/ tan silty, ool/foss
in part, poor fr. o. 1/2
chik silty sh, no ad.
1/2 wh/gry A

ls. tan, gry, frk, chunky - 1/2
color

Dst #1
3181-3254
30-30-30-30
Blow, weak
Rec; 15' mud
PRESSURES; Isip 722
fs; 228
I/O 14-18
CF 17-20
10W
1526
-1496

3310-3330
Dst #2
30-30-45-60
Blow, strong, fr. ts.
10 min, fouled
60,000 c/g pd
2nd



- ls; tan; gray (foss/ool)
 Sour sulfur sm. good
 - ls; tan; gray (golden brown - brown)
 SFO; good odor
 - ls; tan; gray; ool in part
 brown/blk. 200, 200, 200, 200 odor
 - ls; wh/cream; ool; cherty
 ls; tan; gray; Early days in
 blk. sh. 200; no odor
 - ls; gray; tan; fxl; foss
 sandy; calc. infill in some
 golden brown; gray - blk. sh.
 200; no odor
 - ls; wh/blk; fxl; few sandy
 green/rusty brown sh.
 - orange; wh; brn; A
 brown; red; (redish) 200
 blk. sh. 200; 200
 - dk; wh/cream; med xl; sandy
 calc. 200
 - dk; wh/cream; med xl; sandy
 brown; blk. sh. 200; good odor
 - dk; wh/cream; med xl; sandy
 blk. sh. 200; 200
 (faint) 200; 200
 - dk; cream; med/coarse xl
 fr/good 200; blk. sh. 200
 blk. sh. 200; (blk/dead)
 no odor
 - dk; wh; sandy; poor
 to fine 200
 - dk; wh; sandy; med xl; sandy
 200; 200
 - dk; wh; sandy; med xl; sandy
 200; 200

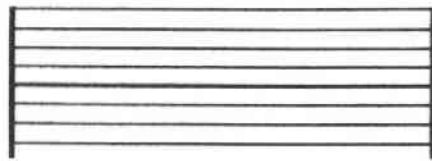
opening, 4.00
 Rec; 2200 Gassy
 oil
 pressures:
 ISIP 701 PS
 FSIP 709
 ICP 180-415
 SSP 149
 HSH 151
 1597
 -1905 PS
 DST#3 9398-3386
 30-30-45-60
 Blow, strong (Bob 11 min)
 2nd opening, strong
 (Bob 11 min)
 Rec; 120' gas in pipe
 200' slightly muddy
 oil
 (10% mud) 200 gas;
 70% mud
 pressures; ISIP 601 PS
 FSIP 574
 ICP 185
 SSP 57-66
 HSH 151
 1609
 -1582 PS
 DST#4 5385-3137
 30-45-60-60
 Blow; Fair (3")
 2nd opening; weak (2")
 Rec; 40' mud out
 gassy oil
 (25% mud, 15% gas;
 60% oil)
 pressures
 ISIP 572 PS
 FSIP 519
 ICP 21-58
 SSP 67-76
 HSH 1631
 -1611 PS



to



R.T.D 3530





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 10747 A

DATE _____ TICKET NO. _____

DATE OF JOB 10-24-14 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 LD DRILLING, INC		LEASE KORIEL #1-22 WELL NO.							
ADDRESS		COUNTY BARTON STATE KS.							
CITY STATE		SERVICE CREW KG, JOSH, DALE							
AUTHORIZED BY		JOB TYPE: CNW - LOW STRING							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19907		70959	1/2				10-24		0600
		19918				ARRIVED AT JOB		AM	0900
						START OPERATION		AM	1130
27463	1/2					FINISH OPERATION		AM	1200
						RELEASED		AM	1300
						MILES FROM STATION TO WELL			65

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
CF700C	COMMON CEMENT	SK	150		2400
CF103	60/40 POZ	SK	30		360
CC11	SPAZ	lb.	675		337.50
CC130	C-51	lb.	29		725
CC201	CEUSONITE	lb.	750		502.50
CF607	5 1/2 LATCH DOWN PLUG	EA	1		400
CF1251	5 1/2 WFL FRONT SHOE	EA	1		360
CF1651	5 1/2 TURBOLET	EA	6		660
CF1901	5 1/2 BASKET	EA	1		290
CF2001	5 1/2 CEMENT SCRATCHER	EA	5		375
C704	CLAYMAX	gal	4		140
CC151	MUD FLUSH	gal	1000		1500
E100	UNIT MVERAGE PUMP	mi.	75		337.50
E101	HENRY EQUIPMENT MILDERS	mi.	150		1125
E113	BULK DELIVERY	TN	626		1563.63
CE204	DEPTH CHARGES 300' - 400'	EA	1		2160
CE240	BLENDING & MIXING CHARGES	SK	180		252
CE504	PLUG CONTROLLER	EA	1		250
5003	STERILIZE SUPERVISOR	EA	1		175

SUB TOTAL **13,915.13**

CHEMICAL / ACID DATA:			

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

DISCOUNT PRICE **10,714.65**

SERVICE REPRESENTATIVE *[Signature]*

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

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer LD DRILLING, INC	Lease No. KORIEL	Lease # 1-22	Date 10-24-14
Field Order # 10147	Station PRATT, KS	Casing 5 1/2	Depth 3529
Type Job CNW-LOWCSTRONG	Formation TD-3530	County BARTON	State KS
Legal Description 22-18-14			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 3529	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 3314	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative LD	Station Manager KEVIN	Treater CONDUEY
Service Units 19907	70959-19918	27463
Driver Names KG	DAVE	JOSH

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0900					ON LOCATION
					RUN 3520' 5 1/2" 14" CSG = 85 JTS
					FRONT SIDE, LATCH BARRIER 1ST BARRIER
					CENT- 2, 3, 5, 6, 8, 10 BASKET- 4
					2 SCRATCHER ON #3, 3 SCRATCHER ON #6
1030					TAG BOTTOM- DRIP BALL- CONC.
					RECIPROCATATE CASING
1130	360		24	6	PUMP 24 bbl MUD FLUSH
	300		5	6	PUMP 5 bbl H2O
	200		35	6	PUMP 150 SK COMMON
					10% SALT 5 #/SK C. DISOLITE, 2% WCA-1
					15 #/gal, 1.30 aft/sk 5.4 gal H2O/sk
					STOP- WASH LINE- DROP PLUG
	0		0	6	START DESP. W/ 2% KCL H2O
	200		60	6	LIFT CEMENT
	600		80	4	SLOW RATE
1200	1500		85.7	4	PLUG DOWN- HED
			6		PUMP RATTLE- 30SK 60% H2O
1300					JOB COMPLETE- KEVIN

LD - KOPTEL 1-22
TD - 3530'
TALLY - 88 JTS 5 1/2" 14" CSG.
3642.61
- 39.61 - OUT
- 43.05 - OUT
- 39.67 - OUT
- 11.62 - BAD THREAD OUT

3508.66
+ 15.00 - PETROMARK JOINT

3523.66

SET 5 1/2" AT 3529 w/ LAND JOINT
PLUG AT 3513' w/ 16' SHOES JOINT
CENTRAL OVER - 2, 3, 5, 6, 8, 10
BASKET - BOTTOM #4
2 SCRATCHERS ON #3 FROM 3469' - 3429'
3 SCRATCHERS ON #6 FROM 3345' - 3303'

Customer <i>L.D. Drilling, Inc.</i>	Lease No.	Date <i>10-17-2014</i>	
Lease <i>Koriei</i>	Well # <i>1-22</i>		
Field Order # <i>11274</i>	Station <i>Pratt, KS</i>	Casing <i>8 5/8</i>	Depth <i>920</i>
Type Job <i>CNW/ 8 5/8 surface</i>	Formation <i>TD-925'</i>	County <i>Barton</i>	State <i>KS</i>
		Legal Description <i>22-18S-14W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 5/8</i>				Pre Pad	Max		5 Min.
Depth <i>920'</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>58 1/2</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth <i>900'</i>	Packer Depth	From	To				

Customer Representative	Station Manager <i>Kevin Gordley</i>	Treater <i>Darin Franklin</i>
Service Units <i>27283 84981 19843 19903 21010</i>		
Driver Names <i>Darin Ed Ed Besney Besney</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>10-16</i>					<i>On location / Safety meeting</i>
<i>10:00pm</i>					<i>Run 920' 8 5/8 casing</i>
					<i>200SK A-con Blend common 3% cc</i>
					<i>1/4# Cellulosic, 12ppg 2.47 veils ^{14.49} were</i>
					<i>200SK common 2% cc 1/4# Cellulosic</i>
					<i>15.6 ppg, 1.20 veils, 5.23 water Res.</i>
<i>10-17</i>					
<i>10:00pm</i>	<i>200</i>		<i>3</i>		<i>Pump 3bbbs water</i>
	<i>200</i>		<i>88</i>		<i>mix 200SK 1cc</i>
	<i>200</i>		<i>43</i>		<i>mix 200SK 1cc</i>
					<i>Shut down</i>
					<i>Release plug</i>
	<i>200</i>		<i>0</i>		<i>Start displacement</i>
	<i>200</i>		<i>47</i>		<i>Slow Rate</i>
	<i>200</i>		<i>57</i>		<i>Bump plug</i>
					<i>Shut in</i>
					<i>Cement & Circulate</i>
					<i>Job complete / Darin & crew</i>
					<i>THANK YOU!!!</i>