



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1270197
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: _____



1270197

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: 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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	CASEY 2-7
Doc ID	1270197

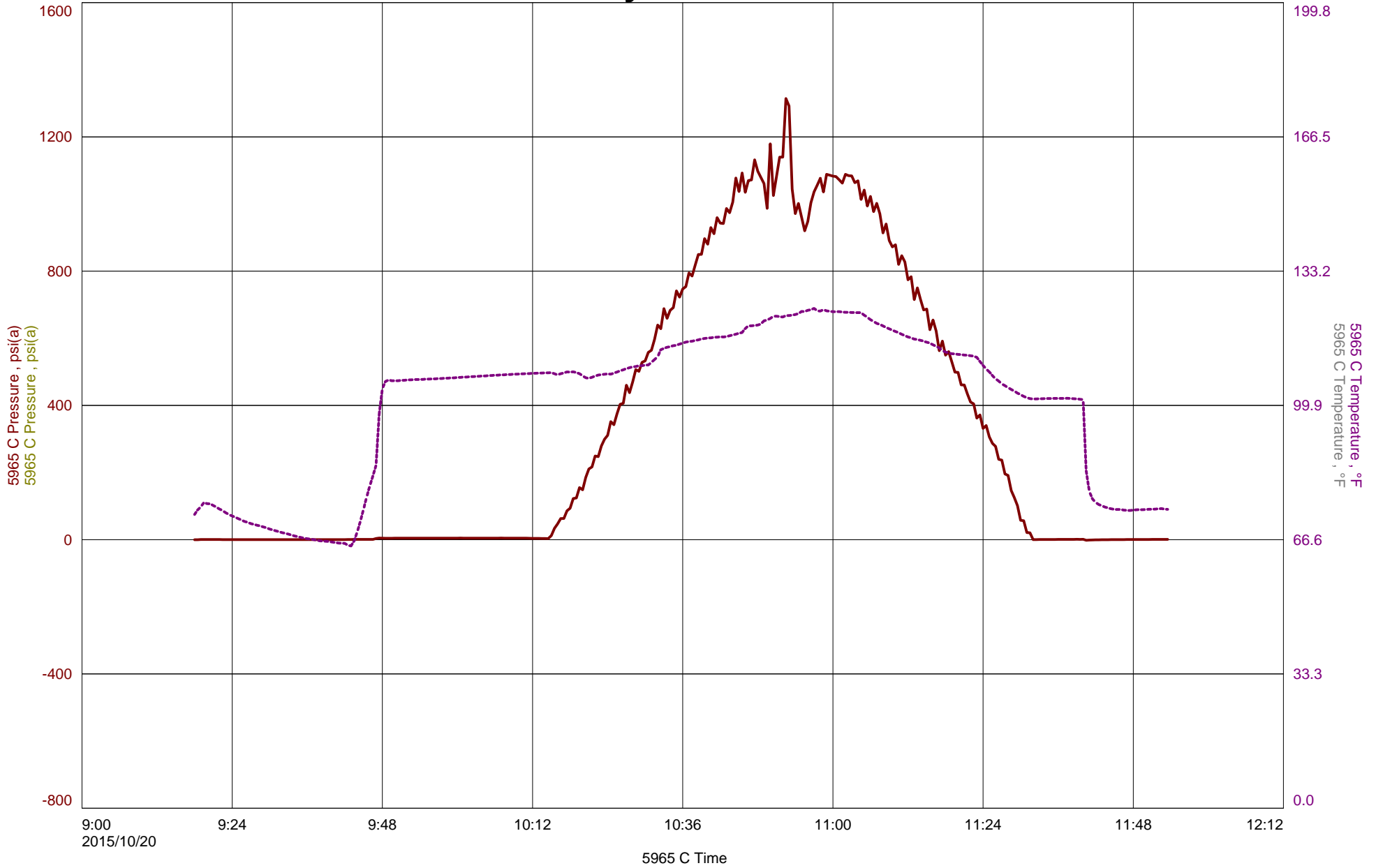
Tops

Name	Top	Datum
ANHYDRITE	3211	+61
BASE ANHYDRITE	3243	+29
TOPEKA	4028	-756
HEEBNER	4201	-929
LANSING	4244	-972
BASE KANSAS CITY	4528	-1256
PAWNEE	4652	-1380
FORT SCOTT	4690	-1418
CHEROKEE	4708	-1436

LD Drilling
DST 1 Lan A-D 4199-4325
Start Test Date: 2015/10/20
Final Test Date: 2015/10/20

Casey 2-7 DST 1
Formation: Lan A-D
Job Number: W214

Casey 2-7 DST 1





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name	LD Drilling	Kim Shoemaker	Job Number	W214
Contact		Casey 2-7 DST 1	Representative	Wilbur Steinbeck
Well Name		DST 1 Lan A-D 4199-4325	Well Operator	LD 1
Unique Well ID		7-2s-37 Cheyenne/Kans	Report Date	2015/10/20
Surface Location		Wildcat	Prepared By	Wilbur Steinbeck
Field			Qualified By	Kim Shoemaker

Test Information

Test Type	Conventional		
Formation	Lan A-D		
Well Fluid Type	01 Oil		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/10/20	Start Test Time	09:18:00
Final Test Date	2015/10/20	Final Test Time	11:55:00

Test Recovery

Recovery **Miss Run hit a Bridge**



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: Casey 2-7 DST 1

TIME ON: 9:18
 TIME OFF: 11:55

Company LD Drilling Lease & Well No. Casey 2-7
 Contractor LD Charge to LD
 Elevation 2839 KB Formation _____ Lan A-D Effective Pay _____ Ft. Ticket No. W214
 Date 10-20-15 Sec. 7 Twp. _____ 2 S Range _____ 37 W County _____ Cheyenne State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 1 Interval Tested from 4199 ft. to 4325 ft. Total Depth 4325 ft.
 Packer Depth 4194 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4199 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4185 ft. Recorder Number _____ Cap. _____ 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4200 ft. Recorder Number _____ Cap. _____ 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 53 Drill Collar Length _____ 0 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 6.8 cc. Weight Pipe Length _____ 0 ft. I.D. 2 7/8 in.
 Chlorides _____ 1000 P.P.M. Drill Pipe Length _____ 4166 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 7 Test Tool Length _____ 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? No Reversed Out No Anchor Length _____ 126 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: Miss Run hit a bridge
2nd Open:

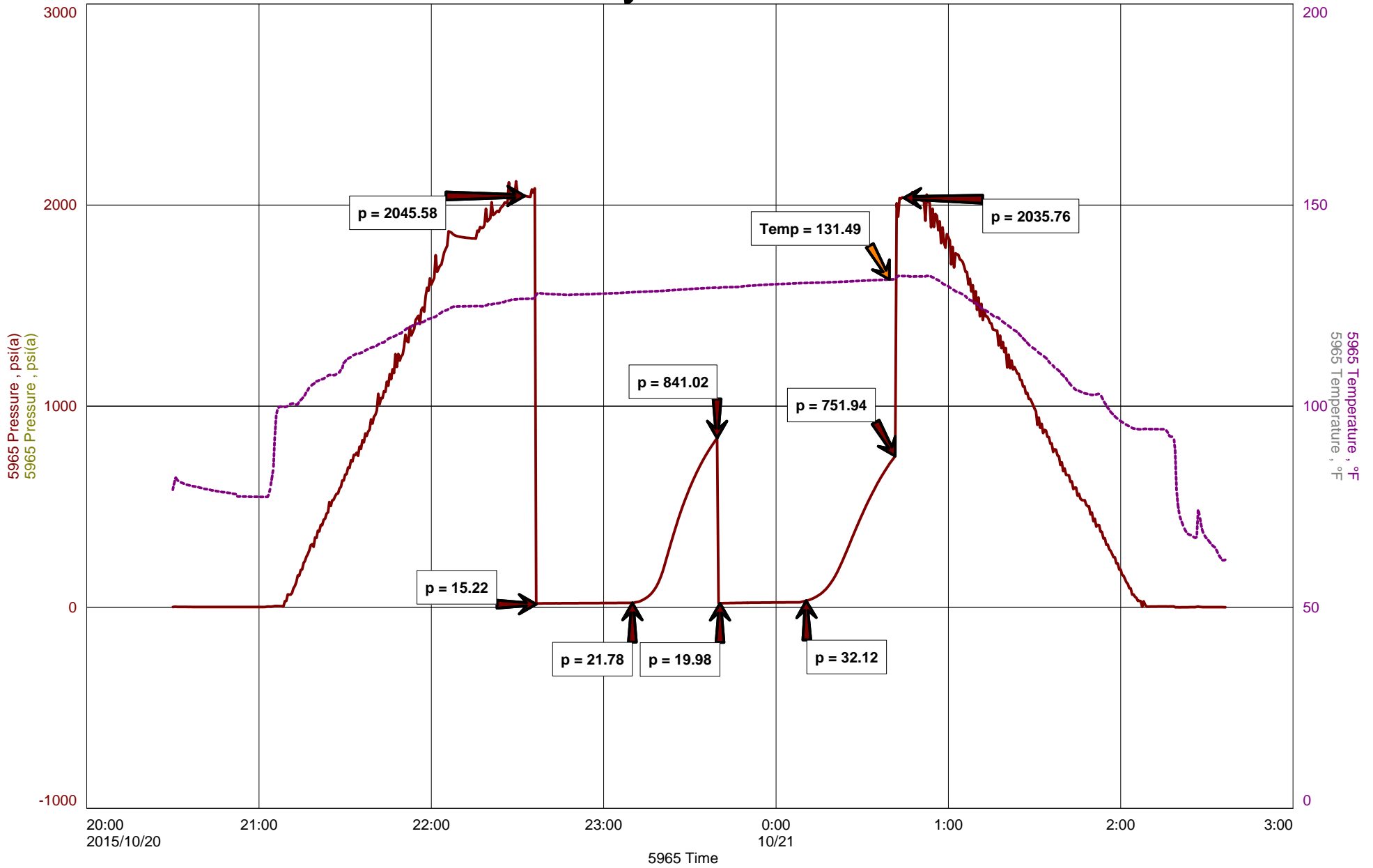
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Recovered _____ ft. of _____	140 Miles RT	Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: <u>Miss Run</u>		Insurance
		Total

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

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

Casey 2-7 DST 2





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name	LD Drilling	Kim Shoemaker	Job Number	W215
Contact		Casey 2-7 DST 1	Representative	Wilbur Steinbeck
Well Name		DST 2 Lan A-D 4199-4325	Well Operator	LD 1
Unique Well ID		7-2s-37 Cheyenne/Kans	Report Date	2015/10/20
Surface Location		Wildcat	Prepared By	Wilbur Steinbeck
Field			Qualified By	Kim Shoemaker

Test Information

Test Type	Conventional		
Formation	Lan A-D		
Well Fluid Type	01 Oil		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/10/20	Start Test Time	20:30:00
Final Test Date	2015/10/21	Final Test Time	02:38:00

Test Recovery

Recovery 15' Mud
 15' Total Fluid

Tool Sample=Mud



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: Casey 2-7 DST 2

TIME ON: 20:30
 TIME OFF: 2:38

Company LD Drilling Lease & Well No. Casey 2-7
 Contractor LD Charge to LD
 Elevation 2839 KB Formation _____ Lan A-D Effective Pay _____ Ft. Ticket No. W215
 Date 10-20-15 Sec. 7 Twp. _____ 2 S Range _____ 37 W County _____ Cheyenne State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 2 Interval Tested from 4199 ft. to 4325 ft. Total Depth 4325 ft.

Packer Depth 4194 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 4199 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4185 ft. Recorder Number _____ 5965 Cap. _____ 5000 P.S.I.

Bottom Recorder Depth (Outside) 4200 ft. Recorder Number _____ 5587 Cap. _____ 5,000 P.S.I.

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

Mud Type Chem Viscosity 58 Drill Collar Length _____ 0 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 6.8 cc. Weight Pipe Length _____ 0 ft. I.D. 2 7/8 in.

Chlorides 1000 P.P.M. Drill Pipe Length 4166 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.

Did Well Flow? No Reversed Out No Anchor Length 126 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: Surge blow died in 5 min No Return

2nd Open: No Blow No Return

Recovered 15 ft. of Mud

Recovered 15 ft. of Total Fluid

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____ 140 Miles RT

Recovered _____ ft. of _____

Remarks: Tool Sample=Mud

Time Set Packer(s) 22:40 A.M. P.M. Time Started Off Bottom 00:40 A.M. P.M. Maximum Temperature 131

Initial Hydrostatic Pressure..... (A) 2046 P.S.I.

Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 841 P.S.I.

Final Flow Period..... Minutes 30 (E) 20 P.S.I. to (F) 32 P.S.I.

Final Closed In Period..... Minutes 30 (G) 752 P.S.I.

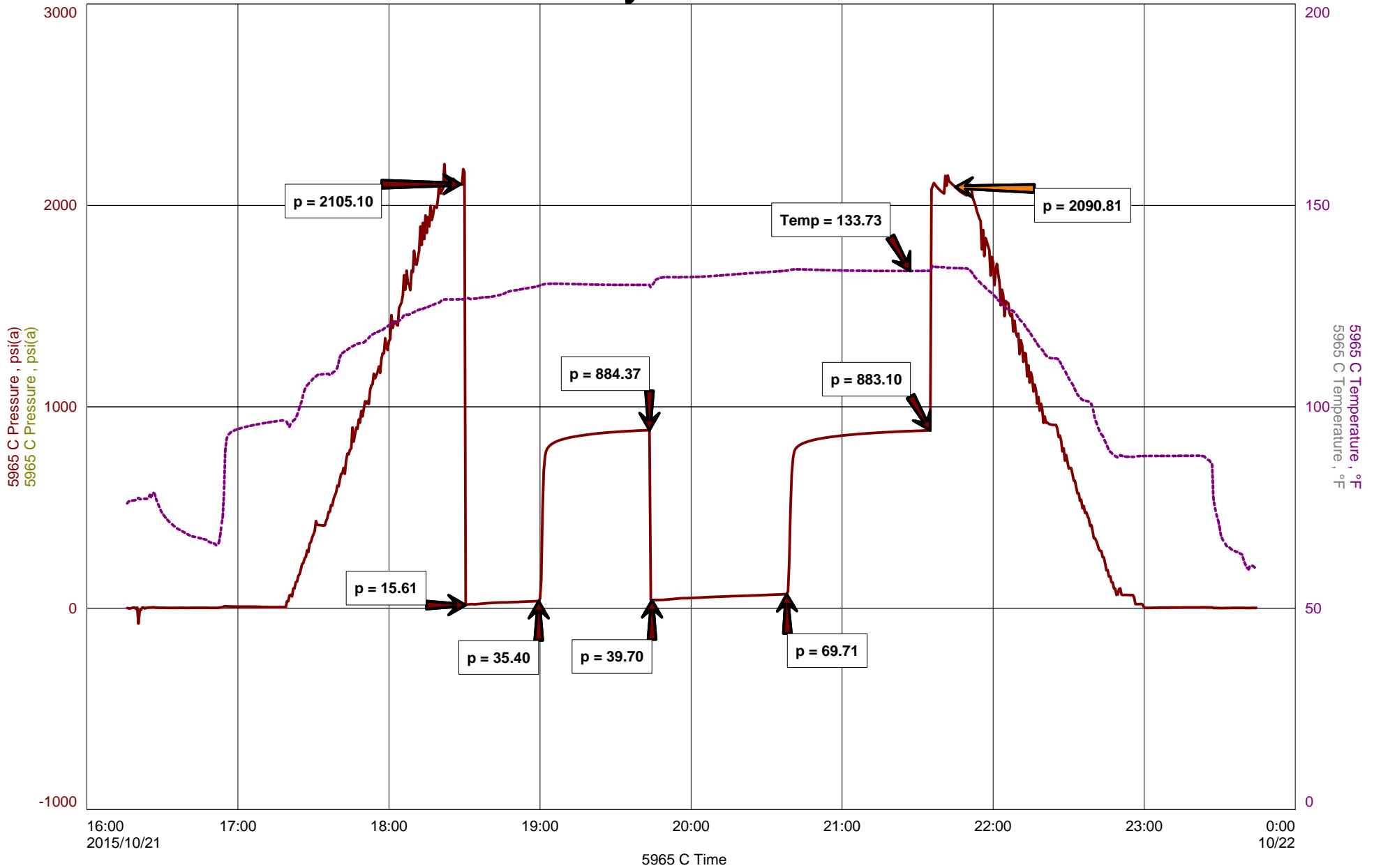
Final Hydrostatic Pressure..... (H) 2036 P.S.I.

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LD Drilling
DST 3 Lan D-G 4322-4388
Start Test Date: 2015/10/21
Final Test Date: 2015/10/21

Casey 2-7 DST 1
Formation: Lan D-G
Job Number: W216

Casey 2-7 DST 3





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name	LD Drilling	Kim Shoemaker	Job Number	W216
Contact		Casey 2-7 DST 1	Representative	Wilbur Steinbeck
Well Name		DST 3 Lan D-G 4322-4388	Well Operator	LD 1
Unique Well ID		7-2s-37 Cheyenne/Kans	Report Date	2015/10/21
Surface Location		Wildcat	Prepared By	Wilbur Steinbeck
Field			Qualified By	Kim Shoemaker

Test Information

Test Type	Conventional
Formation	Lan D-G
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test

Start Test Date	2015/10/21	Start Test Time	16:16:00
Final Test Date	2015/10/21	Final Test Time	23:47:00

Test Recovery

Recovery **3' Free Oil**
125' WCM with oil spots 35%W 65%M
128' Total Fluid

Tool Sample=WCM 25%W 75%M

RW=27



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Casey 2-7 DST 3

TIME ON: 16:16
TIME OFF: 23:47

Company LD Drilling Lease & Well No. Casey 2-7
Contractor LD Charge to LD
Elevation 2839 KB Formation _____ Lan D-G Effective Pay _____ Ft. Ticket No. W216
Date 10-21-15 Sec. 7 Twp. _____ 2 S Range _____ 37 W County _____ Cheyenne State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 3 Interval Tested from 4322 ft. to 4388 ft. Total Depth 4388 ft.
Packer Depth 4317 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 44322 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4308 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4323 ft. Recorder Number 5587 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 67 Drill Collar Length _____ 0 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length _____ 0 ft. I.D. 2 7/8 in.
Chlorides 1200 P.P.M. Drill Pipe Length 4289 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? Yes Reversed Out No Anchor Length 66 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: Built to 6" No Return
2nd Open: Built to 6 1/2" No Return

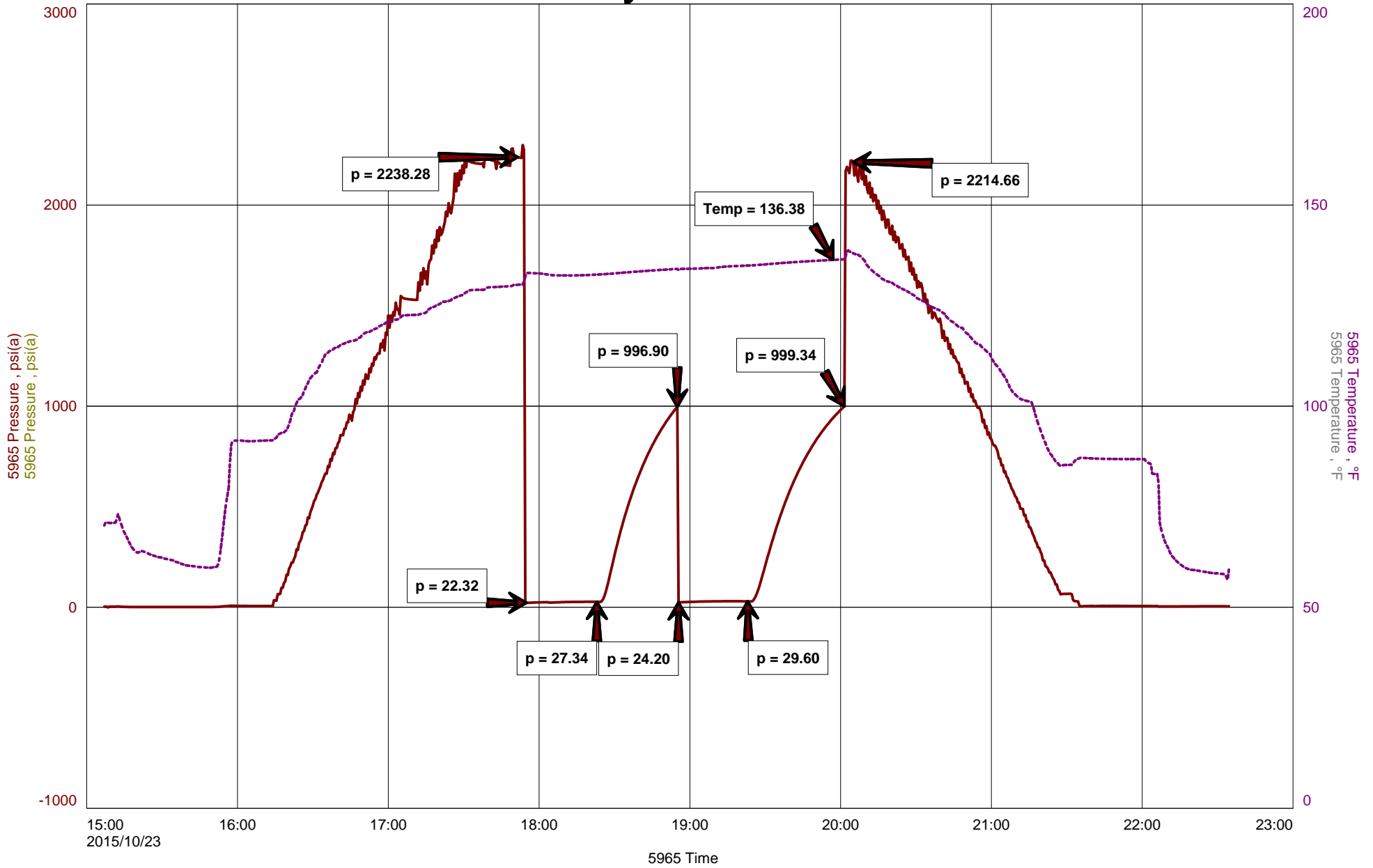
Recovered 3 ft. of Free oil
Recovered 125 ft. of WCM/with oil spots 35%W 65%M
Recovered 128 ft. of Total Fluid
Recovered _____ ft. of _____

Recovered _____ ft. of _____	140 Miles RT	Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: Tool Sample=WCM 25%W 75%M RW=27,000		Insurance
		Total

Time Set Packer(s) 18:30 A.M. P.M. Time Started Off Bottom 21:30 A.M. P.M. Maximum Temperature 134
Initial Hydrostatic Pressure..... (A) 2105 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 35 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 884 P.S.I.
Final Flow Period..... Minutes 45 (E) 40 P.S.I. to (F) 70 P.S.I.
Final Closed In Period..... Minutes 60 (G) 883 P.S.I.
Final Hydrostatic Pressure..... (H) 2091 P.S.I.

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Casey 2-7 DST 4





Diamond Testing General Report

Wilbur Steinbeck
TESTER
CELL: 620-282-1573

General Information

Company Name	LD Drilling	Kim Shoemaker	Job Number	W217
Contact		Casey 2-7	Representative	Wilbur Steinbeck
Well Name		DST 4 Paw/Cher 4628-4750	Well Operator	LD 1
Unique Well ID		7-2s-37 Cheyenne/Kans	Report Date	2015/10/23
Surface Location		Wildcat	Prepared By	Wilbur Steinbeck
Field			Qualified By	Kim Shoemaker

Test Information

Test Type	Conventional		
Formation	Paw/Cher		
Well Fluid Type	01 Oil		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/10/23	Start Test Time	15:07:00
Final Test Date	2015/10/23	Final Test Time	22:34:00

Test Recovery

Recovery 15' Mud
 15' Total Fluid

Tool Sample=Mud



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Casey 2-7 DST 4

TIME ON: 15:07
TIME OFF: 22:34

Company LD Drilling Lease & Well No. Casey 2-7
Contractor LD Charge to LD
Elevation 2839 KB Formation _____ Paw/Cher _____ Effective Pay _____ Ft. Ticket No. W217
Date 10-23-15 Sec. 7 Twp. _____ 2 S Range _____ 37 W County _____ Cheyenne State KANSAS
Test Approved By Kim Shoemaker Diamond Representative _____ Wilbur Steinbeck

Formation Test No. 3 Interval Tested from 4628 ft. to 47 ft. Total Depth 4750 ft.
Packer Depth 4623 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4628 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4614 ft. Recorder Number 5965 Cap. 5000 P.S.I.
Bottom Recorder Depth (Outside) 4629 ft. Recorder Number 5587 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 67 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.6 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2000 P.P.M. Drill Pipe Length 4595 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? No Reversed Out No Anchor Length 122 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: Built 1/2" died in 20 min No Return
2nd Open: Built to 6 1/2" No Return

Recovered 15 ft. of Mud
Recovered 15 ft. of Total Fluid
Recovered _____ ft. of _____ Ruined regular packer
Recovered _____ ft. of _____

Recovered _____ ft. of _____	140 Miles RT	Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: <u>Tool Sample=Mud</u>		Insurance
		Total

Time Set Packer(s) 17:55 A.M. P.M. Time Started Off Bottom 19:55 A.M. P.M. Maximum Temperature 136

Initial Hydrostatic Pressure..... (A) 2238 P.S.I.
Initial Flow Period..... Minutes 30 (B) 22 P.S.I. to (C) 27 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 997 P.S.I.
Final Flow Period..... Minutes 30 (E) 24 P.S.I. to (F) 30 P.S.I.
Final Closed In Period..... Minutes 30 (G) 999 P.S.I.
Final Hydrostatic Pressure..... (H) 2215 P.S.I.

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KIM B. SHOEMAKER

CONSULTING GEOLOGIST

318-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE # 2-7 CASEY

FIELD WILDCAT

LOCATION 1463' FSL & 2135' FEL

SEC 7 TWP 2S RGE 37W

COUNTY CHEYENNE STATE KANSAS

CONTRACTOR L. D. DRILLING, INC.

SPUD 10-14-15 COMP 10-24-15

RTD 4832 LTD

MUD UP 3594 TYPE MUD CHEMICAL

ELEVATIONS

KB 3272

DF

GL 3267

Measurements Are All

From 3272 KB

CASING

SERVICE 8 5/8" @ 354'

ELECTRICAL SURVEYS

None

SAMPLES SAVED FROM 3900 TO 4832

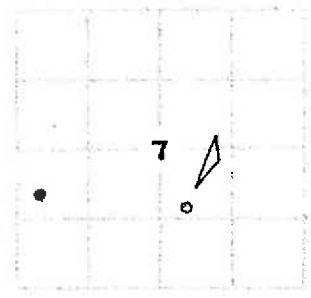
DRILLING TIME KEPT FROM 3700 TO 4832

SAMPLES EXAMINED FROM 3900 TO 4832

GEOLOGICAL SUPERVISION FROM 4100 TO 4832

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE		3211 + 61
B/ANH.		3243 + 29
TOPEKA		4028 - 756
HEEBNER		4201 - 929
LANSING		4244 - 972
B/KC		4528 - 1256
PAWNEE		4652 - 1380
FORT SCOTT		4690 - 1418
CHEROKEE		4708 - 1436
RTD		4832 - 1560



API: 15-023 - 21446

10-14-15 SPUD

10-15 @ 357'

10-16 @ 1800'

10-17 @ 2895'

10-18 @ 3555'

10-19 @ 4020'

10-20 @ 4325'

10-21 @ 4343'

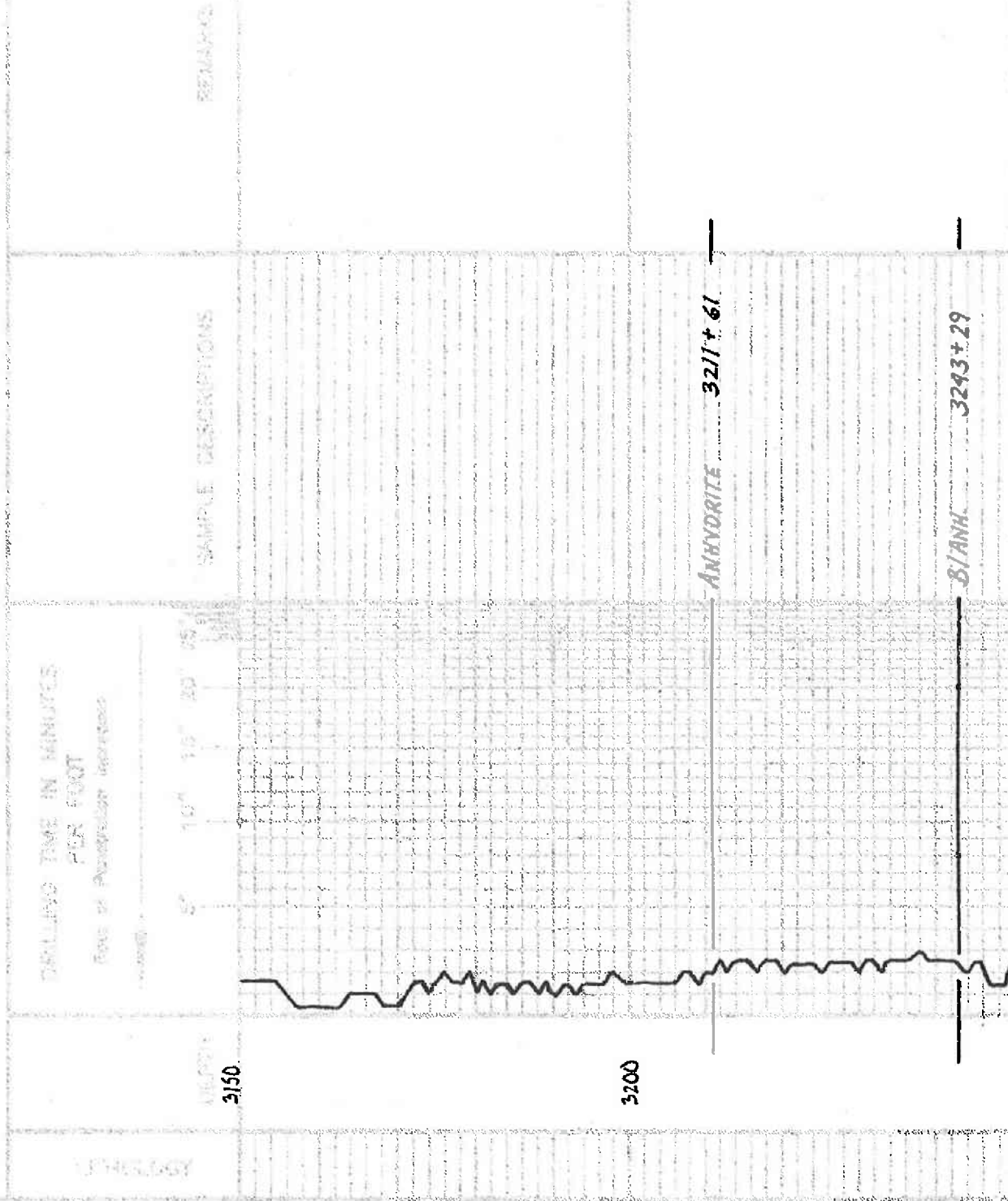
10-22 @ 4444'

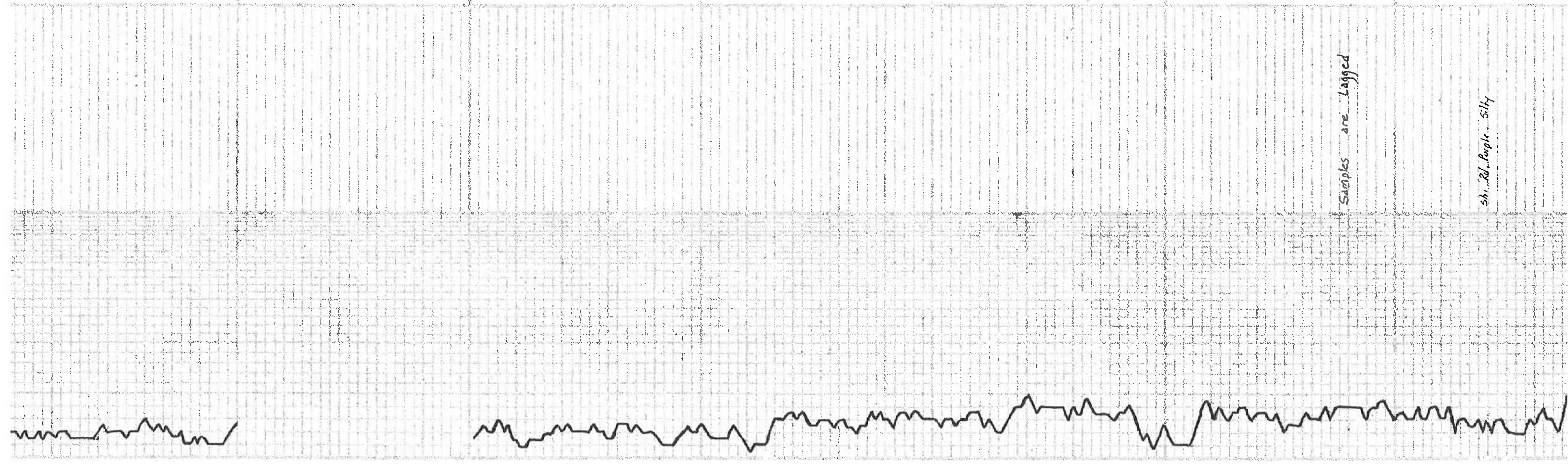
10-23 @ 4720'

10-24 @ 4832'

LEGEND

- Dolomite
- Gypsum
- Oil Shale
- Limestone
- Sandstone
- Shale
- Siltstone
- Claystone
- Anhydrite





3500

3700

3800

3900

Samples are lagged

sh. Bl. Purple. Silty

Sh. dr. silty

ls. gy. fm. silty

ls. gy. fm. silty

sh. rd.

TOPEKA 4028-756

ls. wt. silty. fr. gy. dr. ble. sh. No odor.

ls. wk. silty. silty

ls. wt. fm. silty

ls. wt. silty. silty

ls. wt. silty. silty. No odor.

sh. dr. silty

ls. dr. silty

ls. dr. silty

ls. gy. silty

sh. dr. silty

sh. gy. silty

ls. wt. silty. silty. No odor.

ls. wt. silty. silty.

HEBNER 4201-929

sh. dr. silty

ls. dr. silty. silty.

sh. dr. silty

sh. rd. silty

LANSING 4244-972

ls. dr. silty. silty.

ls. dr. silty. silty.

ls. dr. silty

sh. dr. silty

4000

4100

4200

DST 01 4199-4325

Hit bridge @ 3100 ft. No flow

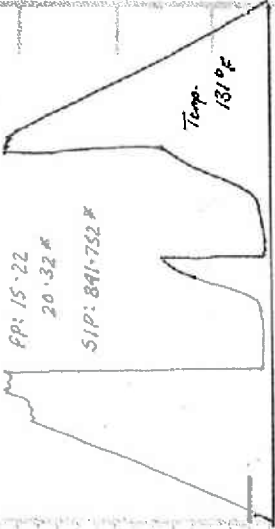
DST (2) 4199-4325

STOP: Surface Blow died 5 min.

2nd OPEN: No flow

30-30-30-30

Rec. 15' Mud w/ few oil sps



ls. dr. silty. silty.

ls. dr. silty. silty.

ls. dr. silty

sh. dr. silty

86. clay. G.M.L.G. Sub. B.E.
L.S. Bl. Sil. Foss. R. V. G. M.L.B. SW. F.S.P.
R. Odor
Sh. Rd.

L.S. sil. Sil. Foss. F. R. V. G. M.L.B. SW. F.S.P.
F.P. F1000
No. Foss.

L.S. Bl. Sil. Foss. Sil. Calcitic.

DSX(13) 1322-1388
1st core: Blow bulb to 1"
2nd core: " " 4 1/2"
30 x 95 x 45-60

L.S. To. Sil. Foss. R. V. G. M.L.B. SW. F.S.P. (old)
No. Foss.

L.S. To. Sil. Foss. Calcitic. R. V. G. M.L.B. SW. F.S.P.
No. Foss.

L.S. sil. Sil. Foss. Sil. Calcitic.

Sh. Rd. L.S.

L.S. sil. Sil. Foss. Sil. Calcitic. R. V. G. M.L.B. SW. F.S.P.
No. Foss.

Sh. Rd. L.S.

Sh. Rd. L.S.

Sh. Rd.

L.S. sil. Sil. Foss. w/ Rd. Sil. Foss.

L.S. sil. Sil. Foss. Sil. Calcitic.

Sh. Rd.

Sh. Rd. L.S. Calcitic. Foss. Sil. Calcitic.

L.S. sil. Sil. Foss. Sil. Calcitic.

Sh. Rd. L.S.

L.S. sil. Sil. Foss. Sil. Calcitic.

B/KC 1528-1756

Sh. Rd.

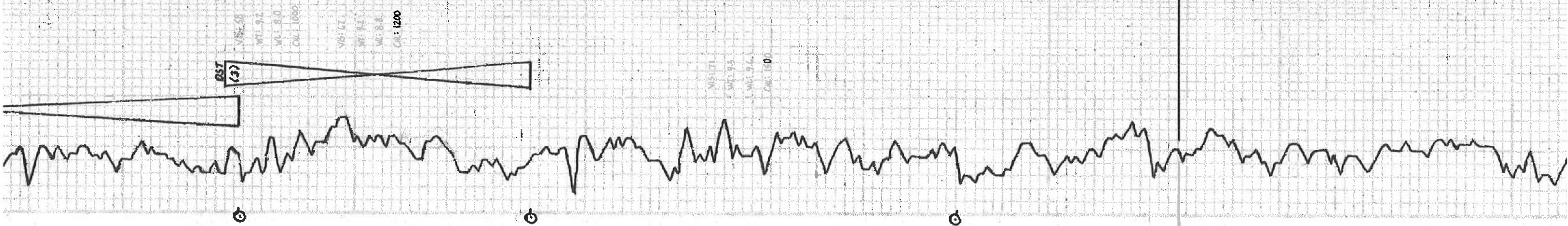
L.S. sil. Sil. Foss. Sil. Calcitic.

Sh. Rd. Sil. Calcitic.

L.S. L.S. Bl.

Sh. Rd. Sil. Calcitic.

Sh. Rd. Porphyroclastic



DSX (3)

WT: 92

WT: 80

Calc: 1000

WT: 67

WT: 74

WT: 88

Calc: 1200

WT: 71

WT: 95

WT: 96

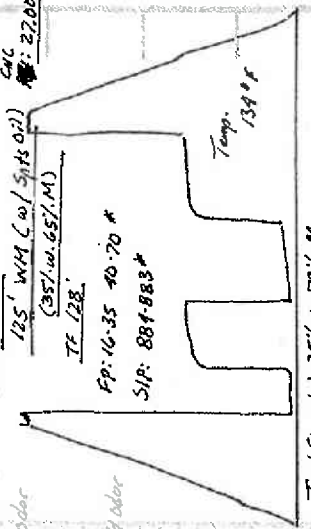
Calc: 100

4300

4400

4500

4600



45. To wt out. Sil. Chly. - Poly B. R. Sp. H. Sh
VSSPB
Dull Flow Nozzle
(4630)
45. Lg. Silty
Sh. 65 g. Silty.

PANNEE 4632-1380

45. g. Sil. Foss. Fr. Poly p. D. Red. Sh.
SSPB Dull Flow
VPODOR
(4670)
Aut.

45. 101 Lg. Sil. Foss. Sil. A
Sh. Blk. Carb.
Sh. Al. Bl. G. Soft

FORT SCOTT 4690-1918

45. R. g. Sil. Foss. Calcitic Sil. A

CHEROKEE 4708-1436

45. To Sil. Foss. Sil. A VS. Calcitic

45. To g. VS. Foss.

45. To Foss. Calcitic

45. To g. Sil. Foss.

45. To g. VS. Foss. Calcitic

Sh. Cl. wt.

Sh. R. L. G.

Sh. Bl. Ch. Foss. Sil. A Sil. A

Sh. R. L. Purple L. G. Silty

Sh. Clay. Fr. Md. G. Sil. A Sil. A

Sh. R. L.

Sh. wt. Fr. Md. G. Sil. A Sil. A Sil. A

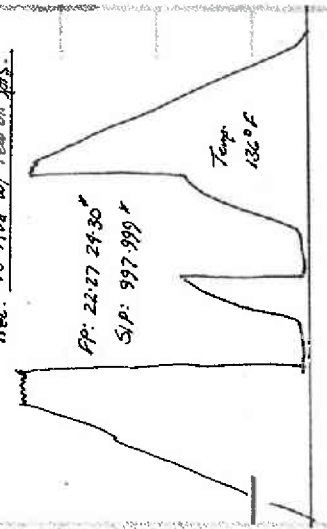
DST (A) 4628-4750

1500psi 1/2 Hour test. did 20 min.
2000psi No Blow

30.30.30-30.30

Rev. 15' Mud w/ Foam oil spk.

PP: 22.27 24.30"
S/P: 997.999 *



LABETE

VIS: 11
MT: 96
VIC: 10.1
CME: 2000

4700

4800

RTD 4832-7560



Cement Report

Customer <i>L.D. Drilling</i>		Lease No.		Date <i>10-24-15</i>	
Lease <i>Casey</i>		Well # <i>2-7</i>		Service Receipt <i>1717 06562 4</i>	
Casing <i>8 5/8"</i>	Depth <i>3230' 2439' 400' 40'</i>	County <i>Cheyenne</i>		State <i>Ks.</i>	
Job Type <i>242 Plug</i>		Formation	Legal Description <i>7 2 37</i>		
Pipe Data			Perforating Data		Cement Data
Casing size <i>8 5/8"</i>	Tubing Size <i>4 1/2" 16.6"</i>	Shots/Ft		Lead <i>60/40 Poz 240sk</i>	
Depth <i>3230' 2439' 400' 40'</i>	Depth	From	To		
Volume	Volume	From	To	<i>1.43 3/8k 6.92 3/8k</i>	
Max Press <i>2000</i>	Max Press	From	To	Tail in	
Well Connection	Annulus Vol.	From	To		
Plug Depth <i>354'</i>	Packer Depth	From	To		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>15:00</i>					<i>On Location</i>
<i>15:10</i>					<i>Safety Meeting w/ B.E.S. employees</i>
<i>15:25</i>					<i>Rig Up</i>
<i>16:10</i>		<i>150</i>	<i>12.7 bbl slurry</i>	<i>4.5</i>	<i>Pump 1st Plug @ 3230' 50sk</i>
<i>16:25</i>			<i>42.6</i>		<i>Displace + wait on rig</i>
<i>16:50</i>		<i>150</i>	<i>25.4 bbl slurry</i>	<i>5.0</i>	<i>Pump 2nd Plug @ 2439' 100sk</i>
<i>17:05</i>			<i>28.0</i>		<i>Displace + wait on rig</i>
<i>18:45</i>					<i>Pump 3rd Plug @ 400' 50sk</i>
<i>18:50</i>					<i>Displace + wait on rig</i>
<i>20:05</i>		<i>0</i>	<i>7.6 bbl slurry</i>	<i>1.9</i>	<i>Cement Bar Hole</i>
<i>20:15</i>		<i>0</i>	<i>2.5 bbl slurry</i>	<i>1.9</i>	<i>Pump 4th Plug @ 40' 10sk</i>
<i>20:30</i>					<i>(cement to surface)</i>
					<i>Job Complete</i>
Service Units	<i>78938</i>	<i>3817/1991</i>	<i>927808/19883</i>		
Driver Names	<i>Daniel</i>	<i>Rogelio</i>	<i>Santiago</i>		

L.D. Davis
Customer Representative

Tyce Davis
Station Manager

Daniel Beck
Cementer



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 06475 A

DATE _____ TICKET NO. _____

DATE OF JOB 10-15-15	DISTRICT 1717	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	LEASE Casey #27	WELL NO.							
ADDRESS	COUNTY Cherokee	STATE KS							
CITY	STATE	SERVICE CREW E Mendez, S Chavez							
AUTHORIZED BY T Davis	JOB TYPE: 242-858 Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
78440	1						10-15-15	PM	5:00
93419	1							PM	11:00
19842	1							PM	1:00
27808	1							PM	2:00
19883	1							PM	3:00
						MILES FROM STATION TO WELL	100 mi		

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: *Rhl W*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CL103	60/40 Poz	sk	300		3600.00	
CL102	Cellulose	lb	75		277.50	
CC109	Calcium Chloride	lb	774		812.70	
CF155	858 Wooden Plug	ea	1		160.00	
E100	Unit Mileage	mi	100		450.00	
E101	Heavy Equipment Mileage	mi	200		1500.00	
E113	Freight of Bulk Delivery	hr	600		3225.00	
CE200	Fluid Depth 0-500'	hr	1		1000.00	
CE240	Blending & Mixing Service	sk	300		4200.00	
S003	Service Supervisor	ea	1		175.00	
CE804	Plug Container	ea	1		250.00	
					SUB TOTAL	5935.10

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <i>T Davis</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Rhl W</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

