



KANSAS CORPORATION COMMISSION 1050311
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6039
Name: L. D. Drilling, Inc.
Address 1: 7 SW 26TH AVE
Address 2: _____
City: GREAT BEND State: KS Zip: 67530 + 6525
Contact Person: L. D. DAVIS
Phone: (620) 793-3051
CONTRACTOR: License # 33323
Name: Petromark Drilling, LLC
Wellsite Geologist: JOSH AUSTIN
Purchaser: M V PURCHASING

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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
10/04/2010 10/10/2010 10/18/2010
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-185-23636-00-00
Spot Description: _____
SW NE NW NE Sec. 15 Twp. 21 S. R. 12 East West
486 Feet from North / South Line of Section
1,977 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Stafford
Lease Name: CHRISTIANSEN Well #: 3-15
Field Name: SAUNDRA
Producing Formation: ARBUCKLE
Elevation: Ground: 1848 Kelly Bushing: 1850
Total Depth: 3650 Plug Back Total Depth: 3562
Amount of Surface Pipe Set and Cemented at: 342 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: 5000 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite: _____
Operator Name: L D DRILLING, INC.
Lease Name: MERMIS License #: 6039
Quarter SE Sec. 24 Twp. 20 S. R. 15 East West
County: BARTON Permit #: D21526

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

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garrison Date: 02/03/2011



1050311

Operator Name: L. D. Drilling, Inc. Lease Name: CHRISTIANSEN Well #: 3-15
 Sec. 15 Twp. 21 S. R. 12 East West County: Stafford

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
SURFACE	12.25	8.625	24	342	COMMON	200	2%Gel,3%CC,1/4#CF
SURFACE - CONT	12.25	8.625	24	342	A-CON BLEND	175	
PRODUCTION-USED	7.875	5.5	14	3593	60/40 POZMIX	205	18%Salt, .5%FR, 5#Gilsonite

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	-			
	-			

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
4	3528 - 3532	400 gal 20% NE FE Acid	
		1000 gal 28% NE FE Acid	

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3559</u> Packer At:		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or ENHR. <u>10/20/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	CHRISTIANSEN 3-15
Doc ID	1050311

All Electric Logs Run

DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG
MICRORESISTIVITY LOG
SONIC CEMENT BOND LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	CHRISTIANSEN 3-15
Doc ID	1050311

Tops

ANHYDRITE	634	+1216
BASE ANHYDRITE	656	+1194
HEEBNER	3086	-1236
TORONTO	3106	-1256
DOUGLAS	3119	-1269
BROWN LIME	3220	-1370
LANSING	3233	-1383
BASE KANSAS CITY	3454	-1604
ARBUCKLE	3515	-1665
LTD	3649	-1799



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 02643 A

DATE _____ TICKET NO. _____

DATE OF JOB: 10-5-10	DISTRICT: KANSAS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.	
CUSTOMER: L.D. Drilling Inc.		LEASE: Christensen 3-15 WELL NO.						
ADDRESS:		COUNTY: Stafford 15-21-12 STATE: Kans.						
CITY:		SERVICE CREW: A. Werth, C. Veach, L. Wiser						
AUTHORIZED BY:		JOB TYPE: 8 5/8" Surface C.W.						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
28443 P.U.	1						10-4-10	6:30
27463 Pt.	1						10-4-10	8:40
1926-1926	1						10-4-10	9:45
							10-4-10	10:45
							10-4-10	12:00
						MILES FROM STATION TO WELL	95 mi/23	

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

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

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-con Blend	SK	175		\$ 3160.00
CP 100	Common	SK	200		\$ 3200.00
CC 102	Cell FINE	lb	94		\$ 347.80
CC 109	Calcium chloride	lb	1069		\$ 1111.26
CC 200	Cement Gel	lb	376		\$ 94.80
CF 153	wooden cement Plug 8 5/8"	EA	1		\$ 160.00
E 100	UNIT MILEAGE Charge Pickup	mi	45		\$ 191.25
E 101	Heavy Equip mileage	mi	90		\$ 630.00
E 113	Bulk Delivery charge	Tm	9.44		\$ 1270.00
CE 200	Depth Charge 0-500	1	4-hrs		\$ 1000.00
CE 240	Blending mixing service charge	SK	39.5		\$ 620.00
CE 504	Plug container Pt. L. action charge	Job	1		\$ 250.00
SP 03	Service Supervisor first show on loc.	EA	1		\$ 175.00

SUB TOTAL

CHEMICAL / ACID DATA			

SERVICE & EQUIPMENT

% TAX ON \$

MATERIALS

% TAX ON \$

TOTAL

\$8,363.00

SERVICE REPRESENTATIVE

A. Werth

THE ABOVE MATERIAL AND SERVICE

ORDERED BY CUSTOMER AND RECEIVED BY:

Lu B. Jacobs

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 02903 A

DATE _____ TICKET NO. _____

DATE OF JOB 10-11-10 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER L.D. Drilling		LEASE Christianson WELL NO. 3-15							
ADDRESS		COUNTY Stafford STATE Ks							
CITY STATE		SERVICE CREW Orlando, Anthony, Wisner							
AUTHORIZED BY		JOB TYPE: CNW-5 1/2 L.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27283	1						10-10-10	AM	9:00
17887-19842	1					ARRIVED AT JOB	10-10-10	AM	10:30
17826-19860	1					START OPERATION	10-11-10	PM	2:30
17851-19862	1					FINISH OPERATION	10-11-10	PM	3:15
						RELEASED	10-11-10	PM	4:00
						MILES FROM STATION TO WELL			45

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

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 P02	SK	175		2100.00
CP103	60/40 P02	SK	30		360.00
CC111	Salt	Lb	1564		782.00
CC112	Friction Reducer	Lb	76		456.00
CC201	Gilsonite	Lb	878		588.26
CF607	Latch Down Plug + Baffle 5 1/2"	ea	1		400.00
CF1101	Cementing Shoe Block 4 1/2" 5 1/2"	ea	1		1700.00
CF1651	Turbolizer 5 1/2"	ea	5		550.00
C704	KCL Substitute	gal	1		35.00
CC151	Mud Flush	gal	500		430.00
E100	Pickup Mileage	mi	45		191.25
E101	Heavy Equipment Mileage	mi	90		630.00
E113	Bulk Delivery	tm	398		637.20
CE204	Depth Charge 3001-4000'	ea	1		216.00
CE240	Cement Service Charge	SK	205		287.00
CE504	Plug Container	ea	1		250.00
S003	Service Supervisor	ea	1		175.00

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		8094.88

SERVICE REPRESENTATIVE Steve Orlando

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 <i>L.D. Drilling</i>	Lease No.	Date <i>10-11-10</i>	
Lease <i>Chambers</i>	Well # <i>3-15</i>		
Field Order # <i>2903</i>	Station <i>Pratt</i>	Casing <i>5 7/8</i>	Depth <i>3573</i>
Type Job <i>CNW-5 1/2 L.S.</i>	Formation	County <i>Stafford</i>	State <i>K</i>
		Legal Description <i>15-21-17</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 7/8</i>	Tubing Size	Shots/Ft		Acid <i>60/40 P02</i>		RATE	PRESS	ISIP
Depth <i>3573</i>	Depth	From	To <i>175</i>	Pre Pad <i>1.41 gpm</i>		Max		5 Min.
Volume <i>27.7</i>	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To <i>300</i>	Frac <i>60/40 P02</i>		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>3573</i>	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager <i>Steve Scott</i>	Treater <i>Steve Orlando</i>
Service Units <i>2702, 17887/19841</i>	<i>19831/19862</i>	
Driver Names <i>Orlando, James Anthony, Lucas W...</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:30 AM</i>					<i>On location - Safety meeting Run 5 1/2 Casing / Perforated shoe Circulation 1-3-5-7-7 Circulate 2 hours in Casing on P. 15EA - Breakdown crew/...</i>
<i>2:38</i>	<i>300</i>		<i>20</i>	<i>5</i>	<i>290 RCL H2O</i>
<i>2:43</i>	<i>300</i>		<i>12</i>	<i>5</i>	<i>mud flush</i>
<i>2:44</i>	<i>300</i>		<i>3</i>	<i>5</i>	<i>H2O spacer</i>
<i>2:45</i>	<i>250</i>		<i>44</i>	<i>5</i>	<i>mix 175 gal 60/40 P02 @ 154 PPS</i>
					<i>Shut Down - Clear pump lines</i>
<i>3:00</i>	<i>0</i>		<i>0</i>	<i>6</i>	<i>Start Displacement</i>
<i>3:07</i>	<i>300</i>		<i>50</i>	<i>5</i>	<i>L.S. pressure</i>
<i>3:12</i>	<i>600</i>		<i>75</i>	<i>4</i>	<i>Slow Rate</i>
<i>3:15 AM</i>	<i>1000</i>		<i>87.2</i>	<i>11</i>	<i>Plug Down - Hold Job Complete Circulation thru job plug R/W / 500 gal 60/40 P02 6 long 5 1/2 + 1 1/2 in 5 7/8 J-tube</i>



James C. Musgrove
Petroleum Geologist

Office
(620) 588-4250

212 Main St. • P.O. Box 215 • Claflin, KS 67525

Home
(620) 587-3444

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling Inc

LEASE Christiansen # 3-15

FIELD Sandra

LOCATION Sw-Ne-Na-Ne (486 FNL; 1971 FEL)

SEC 15 TWSP 21 RGE 12

COUNTY Stafford STATE Kansas

CONTRACTOR Petromax Drilling (rig #2)

SPUD 10-04-2010 COMP 10/11/2010

RTD 3650 LTD 3649

MUD UP 2792 TYPE MUD Chemical Dispersed

ELEVATIONS

KB 1850

DF

GL 1845

Measurements Are All
From KB

CASING 8 7/8" 342
SURFACE 378
PRODUCTION 5 1/2" 10

ELECTRICAL SURVEYS
By LogTech - DJL, GNLK, MEL

SAMPLES SAVED FROM 2700 TO

DRILLING TIME KEPT FROM 2700 TO R.T.D.

SAMPLES EXAMINED FROM 2700 TO

GEOLOGICAL SUPERVISION FROM 3060 TO

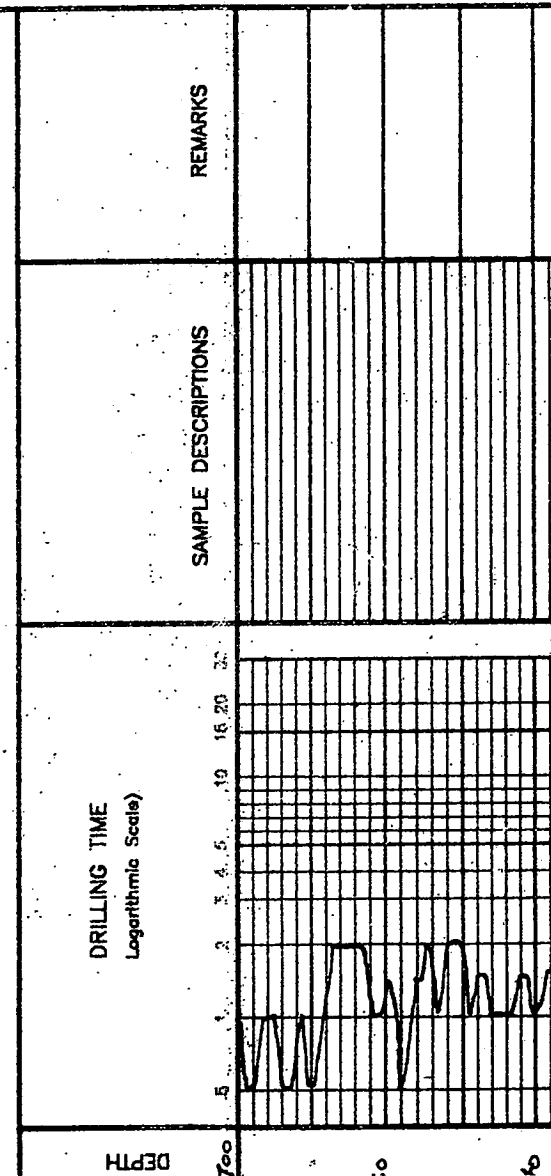
GEOLOGIST ON WELL Josh Austin

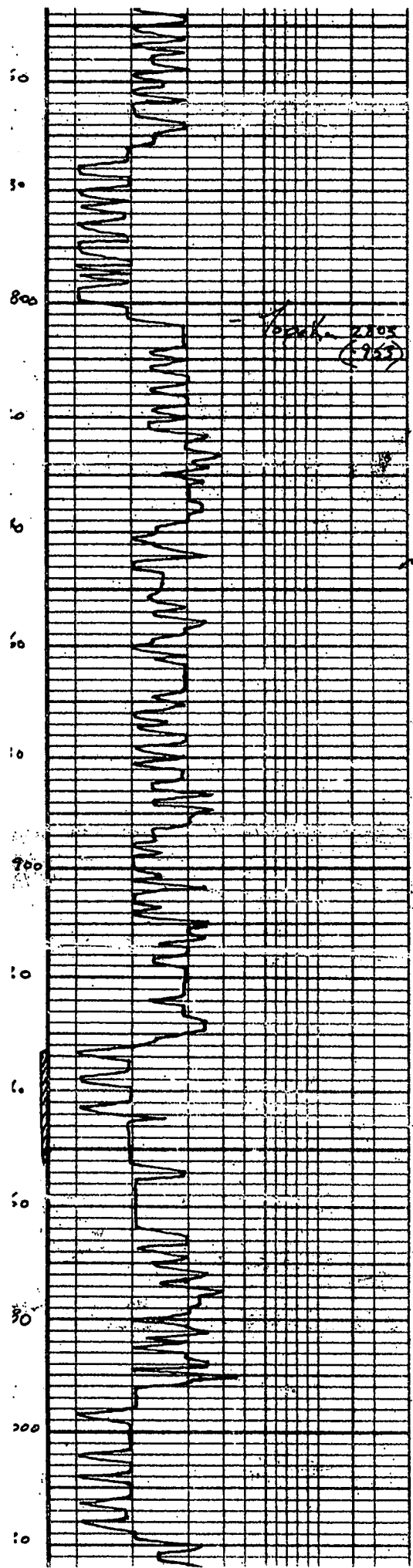
FORMATION TOPS	LOG	SAMPLES
<u>anhydrite</u>	<u>637</u> - <u>+1216</u>	
<u>East anhydrite</u>	<u>656</u> - <u>+1194</u>	
<u>Heeler</u>	<u>3086</u> - <u>-1236</u>	
<u>Tomato</u>	<u>3106</u> - <u>-1256</u>	
<u>Douglas</u>	<u>3119</u> - <u>-1269</u>	
<u>Brown Hill</u>	<u>3220</u> - <u>-1370</u>	
<u>Lionsden</u>	<u>3233</u> - <u>-1383</u>	

5 1/2" production/disposal casing was set
 and cemented.
 Respectfully submitted,
 Josh R. Austin
 Petroleum Geologist

LEGEND

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





2805
(285)

Shale, gry - gry, sh green

plus sand, gry - greyish green

1/2 sub rounded sub angular
fossiliferous Micr 1/2

LS, gry - cream f. med. sh.

fine dense poor vis. 1/2

fraggy organic body &

1/2 tan grey f. med. sh.

dense hy. fine sparry cal
sected 1/2

LS, tan grey f. med. sh.

hy in part, poor vis. (brown)

plus gry - tan f. med. sh. &

SS

blk carb. shale

+ gry green shale

LS, cream, highly f. med. sh.

chilly to sh. - f. med. sh.
1/2

LS, cream, highly f. med. sh.
1/2

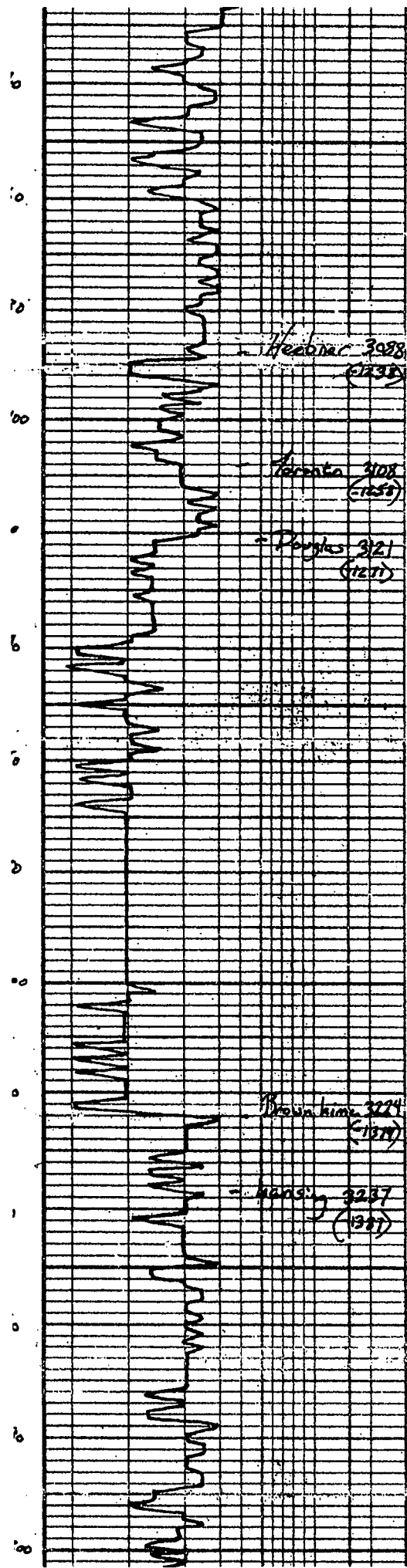
LS, tan f. med. sh. dense
slightly sec. detrital. poor vis.
1/2

blk carb. sh.

LS, cream, chilly f. med. sh.

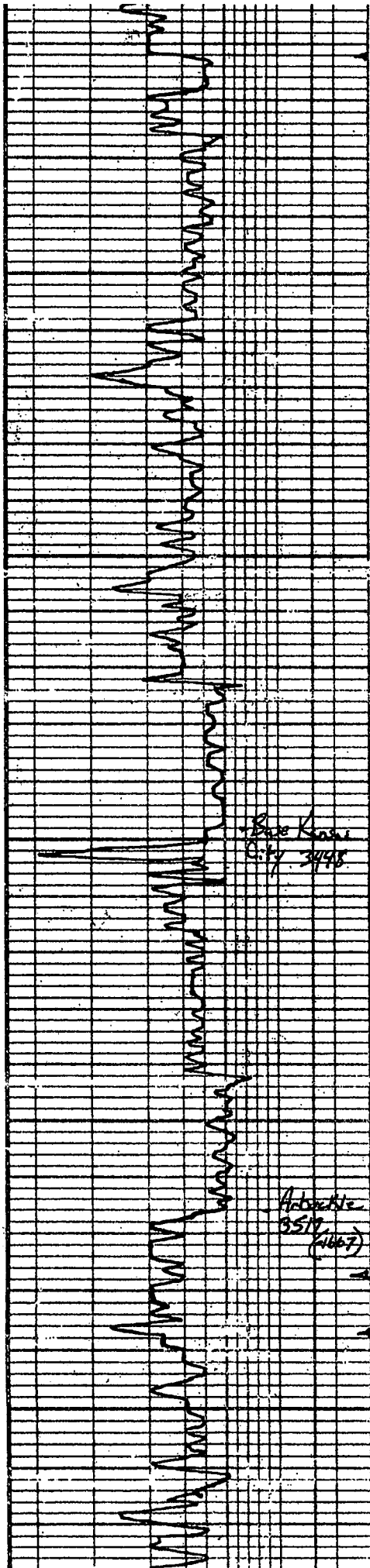
sected 1/2

SS

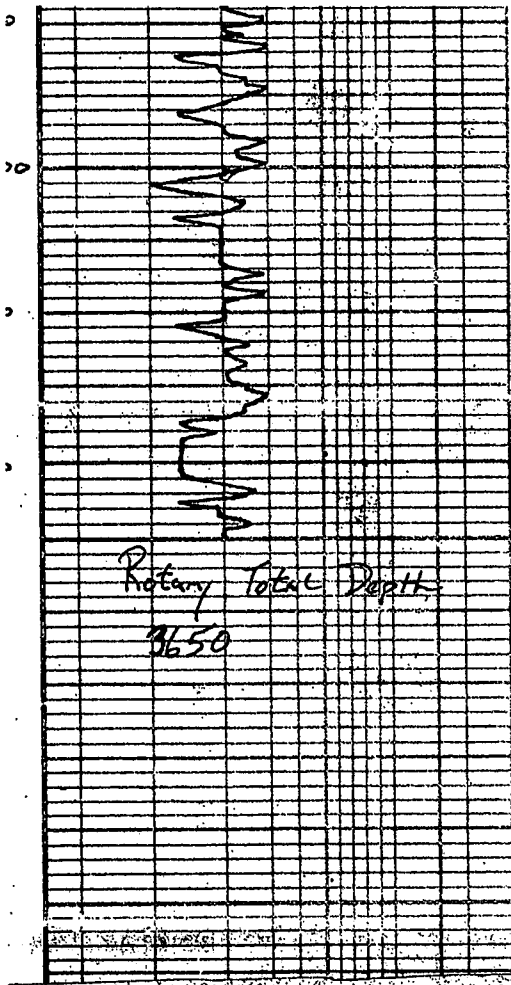


Part dense poorly dev'd 1/5
 ls. aa green imppt
 ls. tan fine med xl. sils
 dolomite scatt'd 1/5
 ls. aa (dense)
 + grey fine d
 blk-carb shale
 grey-green shale
 ls. wh/cem fine cherty dense
 poor vis. to blk sta N5E0
 shale; grey/greyish green
 silty in part
 shale; as above silty
 slightly mica
 grey-green shale, soft
 silty mica
 shale; aa
 ls. tan buff fine dense
 / ay cherty in part
 ls. tan-cem fine dense cherty
 poor vis. to brn sta to top
 ls. aa fine/med dense to sta mpo
 grey-mar shale
 ls. grey-cem fine dense slight
 ay poor vis.
 ls. cem-tan fine med fine
 to blk sta spotty spc

1850 K.B. -
 DST #1 3227-3312
 30-45-45-60
 flow; strong OBB in 7 1/2 min
 1" water back
 some about 1000 ft
 Recovery; 300' GIP
 6' clean oil
 183' GOWM
 (61% gas 9% oil 91% water)
 30' OGW
 (5% gas 9% oil 91% water)



#1 - ft. adar	Pressure, ISIP 817 PSI FSIP 795 " IFP 16-157 " FFP 118-298 " HSH 1507 " -1497
ly tan. con. fine/alt. cherty	
5' basal con. - 1260' bin. sp. sh.	
to Fe. No. adar	
ly. grey - con. fine cherty	
down poor vis. 1 1/2	
grey - mar. sh.	DST #2: 3355-7120
ly. tan. buff. grey, con. subcon.	30-45-45-60
down in con. bin. sh. SFO	Blow: good 088 in 20 min
ft. adar	no blow back
	fully good 088 in 22 min
	Recovery: 124' sh. adar
	124' MW
	120' water
ly. grey - con. fine dense	Pressure, ISIP 957 PSI
poor vis. to blk. tan. sh. SFO	FSIP 954 "
	IFP 11-109 "
	FFP 108-177 "
	HSH 1584 "
	-1580 "
ly. con. tan. fine fine gran	
in part scatt. bin. sh. SFO	
ft. adar	
grey - dk. grey - blk. shale	
ly. grey - con. fine slightly cherty	
down poor vis. by in part 1/2	
grey - greenish green silty sh	
ly. con. grey fine dense sh	
Shale: olive green - grey	
Shale: a. waxy	
Slightly silty in part	
green green soft clayey sh	DST #3 3447-3527
	30-45-45-60
	Blow: strong 088 in 25 min
	very weak blow back
shale: tan fine med. sh. to blk.	Blow: strong 088 in 25 min
down con. bin. sh. SFO fragment	no blow back
adar	Recovery: 179' GIP
	73' Clean Oil
	65' GUM
sh. buff. to grey med. sh.	(6) gas 19% oil 20% water 60% air
tan sh. SFO/sat. to good adar	120' GUM
	(8) gas 19% oil 20% water 50% air
shale: con. tan fine med. sh.	Pressure, ISIP 1051 PSI
sh. - very grey bin. sh. SFO	FSIP 1030 "
ft. adar to the grey honey to	IFP 16-77 "
	FFP 84-114 "
	HSH 1686 "



Rotary Total Depth
3650

	-1653
dot. tan-buff fl. dense bluish	DST #4 3447-3539
poorly dev. sfa fl. color	30-45-45-60
	Blow gone britt to 10'
	No blow back
dot. grey m. con. f. med. sh.	frank good OBB in 36' in
dense fl. sett. brn-bk. sh.	1/2" blow back
sfa fl. color. plus wh. d.	Recovery 109' GIP
	201' GOCM
	(81% gas 22% oil 70% sand)
dot. wh. grey med. sh. fr.	120' GOCM
fl. to blk. sh. to fr. sh.	(12% gas 25% oil 60% sand)
Plus Fe 2+	odor
	Pressures: ISIP 1043 PSI
	FSIP 1021 "
	IFP 25-80 "
	FFP 82-122 "
	MSW 1619 "
	-1612

DIAMOND TESTING

Drill Test Report

General Information

Company Name LD DRLG

Contact LD DAVIS
Well Name CHRISTIANSON #3-15
Unique Well ID DST#1 LANS A-F 3227-3312
Surface Location SEC 15-21S-12W STAFFORD CO KS
Field WILDCAT
Well Type Vertical

Job Number M036
Representative MIKE COCHRAN
Well Operator LD DRLG
Report Date 2010/10/08
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#1 LANS A-F 3227-3312
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 20:20:00
Final Test Time 04:15:00

Start Test Date 2010/10/07
Final Test Date 2010/10/08

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 300' G.I.P.
6' CLEAN OIL
183' GOWM 6% GAS, 6% OIL, 41% WTR, 47% MUD
310' OGW 5% GAS, 4% OIL, 91% WTR
120' OILY WATER 4% OIL, 96% WTR
619' TOTAL FLUID

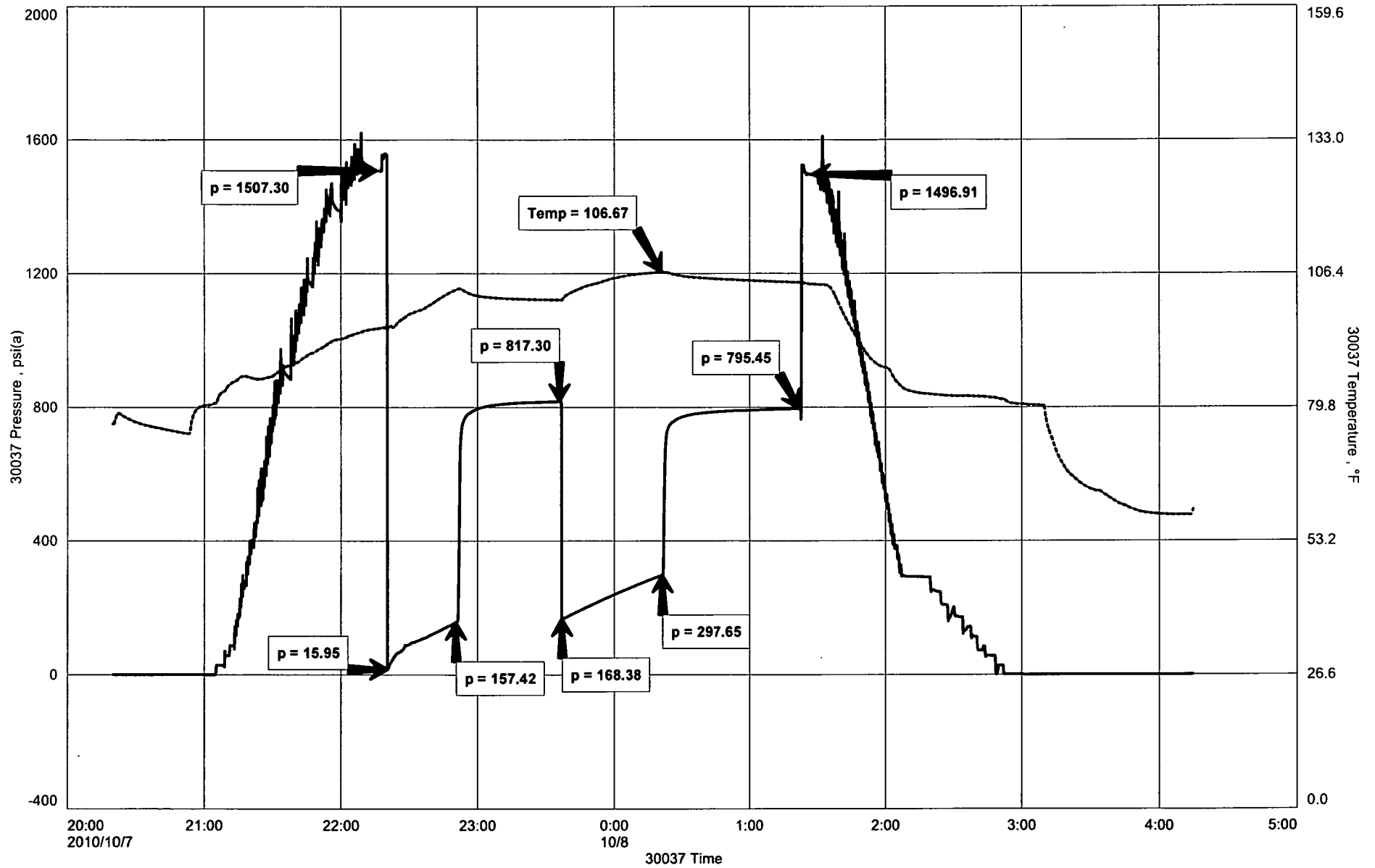
TOOLSAMPLE: 2% GAS, 97% WTR, 1% MUD

PH 7.5
CHLOR 72,0000 PPM
RW .10@58 DEG
GRAVITY 35.3 @ 60 DEG

LD DRLG
DST#1 LANS A-F 3227-3312
Start Test Date: 2010/10/07
Final Test Date: 2010/10/08

CHRISTIANSON #3-15
Formation: DST#1 LANS A-F 3227-3312
Pool: WILDCAT
Job Number: M036

CHRISTIANSON #3-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CHRST3-15DST1

TIME ON: 20:20 (10-07)
TIME OFF: 04:15 (10-08)

Company L.D. DRLG Lease & Well No. CHRISTIANSON #3-15
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1848 EST GL Formation LANS. A-F Effective Pay _____ Ft. Ticket No. M036
Date 10-7-10 Sec. 15 Twp. _____ 21 S Range _____ 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3227 ft. to 3312 ft. Total Depth 3312 ft.
Packer Depth 3222 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3227 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3216 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3309 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 65 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 3082 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 85 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: GSB, BOB 7 1/2 MIN (1" BB)
2nd Open: GSB, BOB 11 MIN (3/4" BB)

Recovered <u>300 ft.</u> of <u>G.I.P.</u>	
Recovered <u>6 ft.</u> of <u>CLEAN OIL GRAVITY 35.3@60 DEG</u>	
Recovered <u>183 ft.</u> of <u>GOWM 6% GAS, 6% OIL, 41% WTR, 47% MUD</u>	
Recovered <u>310 ft.</u> of <u>OGW 5% GAS, 4% OIL, 91% WTR</u>	
Recovered <u>120 ft.</u> of <u>OILY WTR 4% OIL, 96% WTR</u>	Price Job
Recovered <u>619 ft.</u> of <u>TOTAL FLUID PH 7.5</u>	Other Charges
Remarks: <u>CHLOR 72,000 PPM</u>	Insurance
<u>RW .10@58 DEG</u>	
<u>TOOL SAMPLE: 2% GAS, 97% WTR, 1% MUD</u>	Total

Time Set Packer(s) 10:20 P.M. A.M. _____ P.M. _____ Time Started Off Bottom 1:20 A.M. A.M. _____ P.M. _____ Maximum Temperature 107

Initial Hydrostatic Pressure..... (A) 1507 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 157 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 817 P.S.I.
Final Flow Period..... Minutes 45 (E) 168 P.S.I. to (F) 298 P.S.I.
Final Closed In Period..... Minutes 60 (G) 795 P.S.I.
Final Hydrostatic Pressure..... (H) 1497 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

Drill Test Report

General Information

Company Name L.D. DRLG

Contact LD DAVIS
Well Name CHRISTIANSON 3-15
Unique Well ID DST#2 3355-3420 LANS H,I,J
Surface Location SEC 15-21S-12W STAFFORD CO. KS
Field WILDCAT
Well Type Vertical

Job Number M037
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/10/08
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#2 3355-3420 LANS H,I,J
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 13:48:00
Final Test Time 20:33:00

Start Test Date 2010/10/08
Final Test Date 2010/10/08

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 124' SOSM
124' MW 80% WTR, 20% MUD
120' WATER 97% WTR, 3% MUD
368' TOTAL FLUID

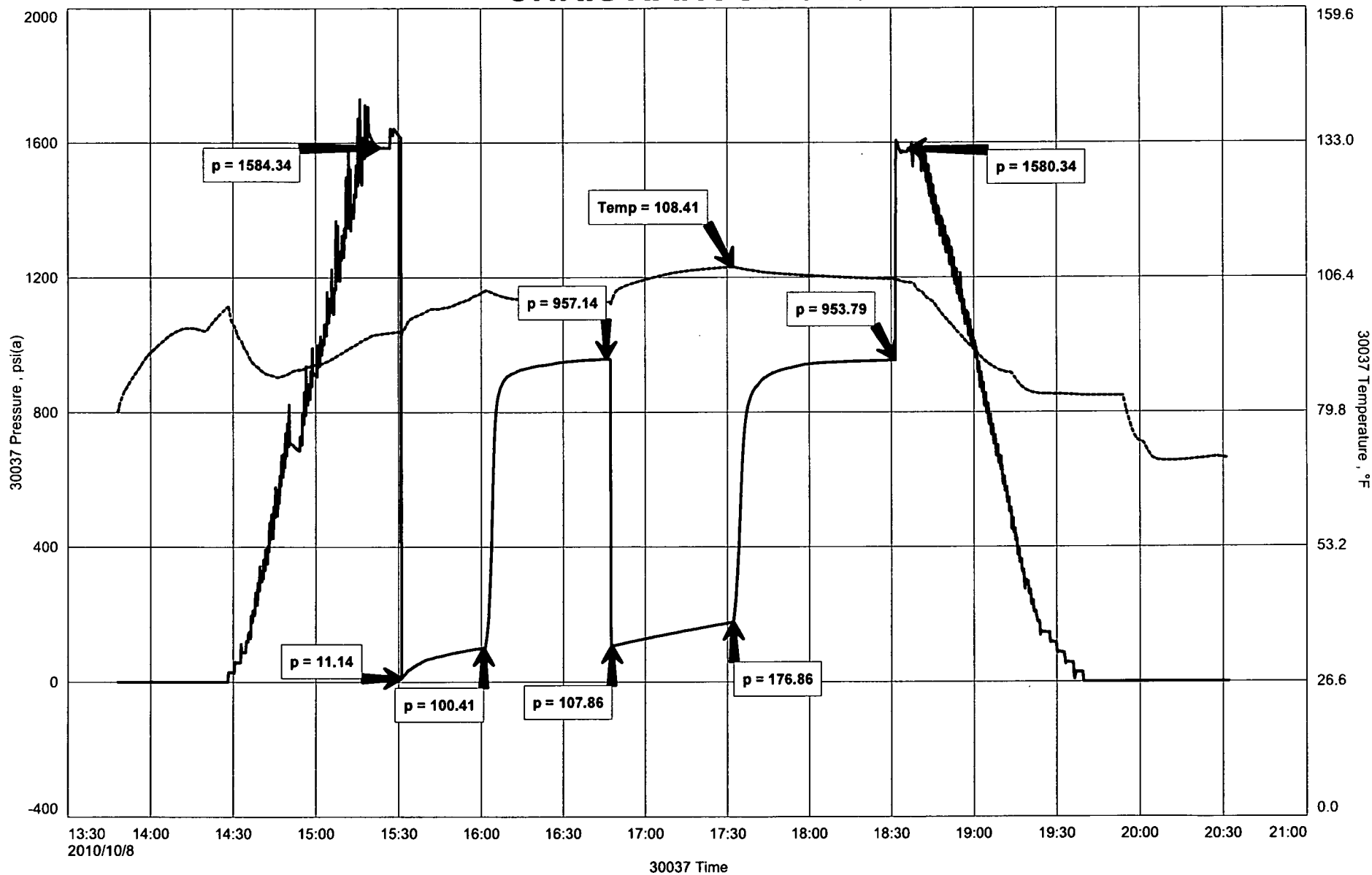
TOOL SAMPLE: 1% OIL, 99% WTR

PH 8.5
CHLOR 42,000 PPM
RW .14@76 DEG

L.D. DRLG
DST#2 3355-3420 LANS H,I,J
Start Test Date: 2010/10/08
Final Test Date: 2010/10/08

CHRISTIANSON 3-15
Formation: DST#2 3355-3420 LANS H,I,J
Pool: WILDCAT
Job Number: M037

CHRISTIANSON 3-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CHRST3-15DST2

TIME ON: 13:48
TIME OFF: 20:33

Company L.D. DRLG Lease & Well No. CHRISTIANSON #3-15
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1848 EST GL Formation LANS. H,I,J Effective Pay _____ Ft. Ticket No. M037
Date 10-8-10 Sec. 15 Twp. 21 S Range 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 3355 ft. to 3420 ft. Total Depth 3420 ft.
Packer Depth 3350 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3355 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3344 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3417 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.

Mud Type CHEMICAL Viscosity 76 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 8.6 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,800 P.P.M. Drill Pipe Length 3210 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 65 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, BOB 20 MIN (NO BB)
2nd Open: WSB, 1" RIGHT AWAY, BOB 22 MIN

Recovered 124 ft. of SOSM
Recovered 124 ft. of MW 80% WTR, 20% MUD
Recovered 120 ft. of WATER 97% WTR, 3% MUD
Recovered 368 ft. of TOTAL FLUID

Recovered _____ ft. of _____ PH 8.5 Price Job _____

Recovered _____ ft. of _____ CHLOR 42,000 PPM Other Charges _____

Remarks: _____ RW .14@76 DEG Insurance _____

TOOL SAMPLE: 1% OIL, 99% WTR Total _____

Time Set Packer(s) 3:30 P.M. A.M. P.M. Time Started Off Bottom 6:30 P.M. A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure..... (A) 1584 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 100 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 957 P.S.I.
Final Flow Period..... Minutes 45 (E) 108 P.S.I. to (F) 177 P.S.I.
Final Closed In Period..... Minutes 60 (G) 954 P.S.I.
Final Hydrostatic Pressure..... (H) 1580 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

Drill Test Report

General Information

Company Name L.D. DRLG

Contact LD DAVIS
Well Name CHRISTIANSEN 3-15
Unique Well ID DST#3 3447-3527 ARB
Surface Location SEC 15-21S-12W STAFFORD CO. KS
Field WILDCAT
Well Type Vertical

Job Number M038
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/10/09
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#3 3447-3527 ARB
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 09:04:00
Final Test Time 15:34:00

Start Test Date 2010/10/09
Final Test Date 2010/10/09

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 179' G.I.P.
73' CLEAN OIL GRAVITY 39.2 @ 60 DEG
63' GWOCM
120' GWOCM
256' TOTAL FLUID

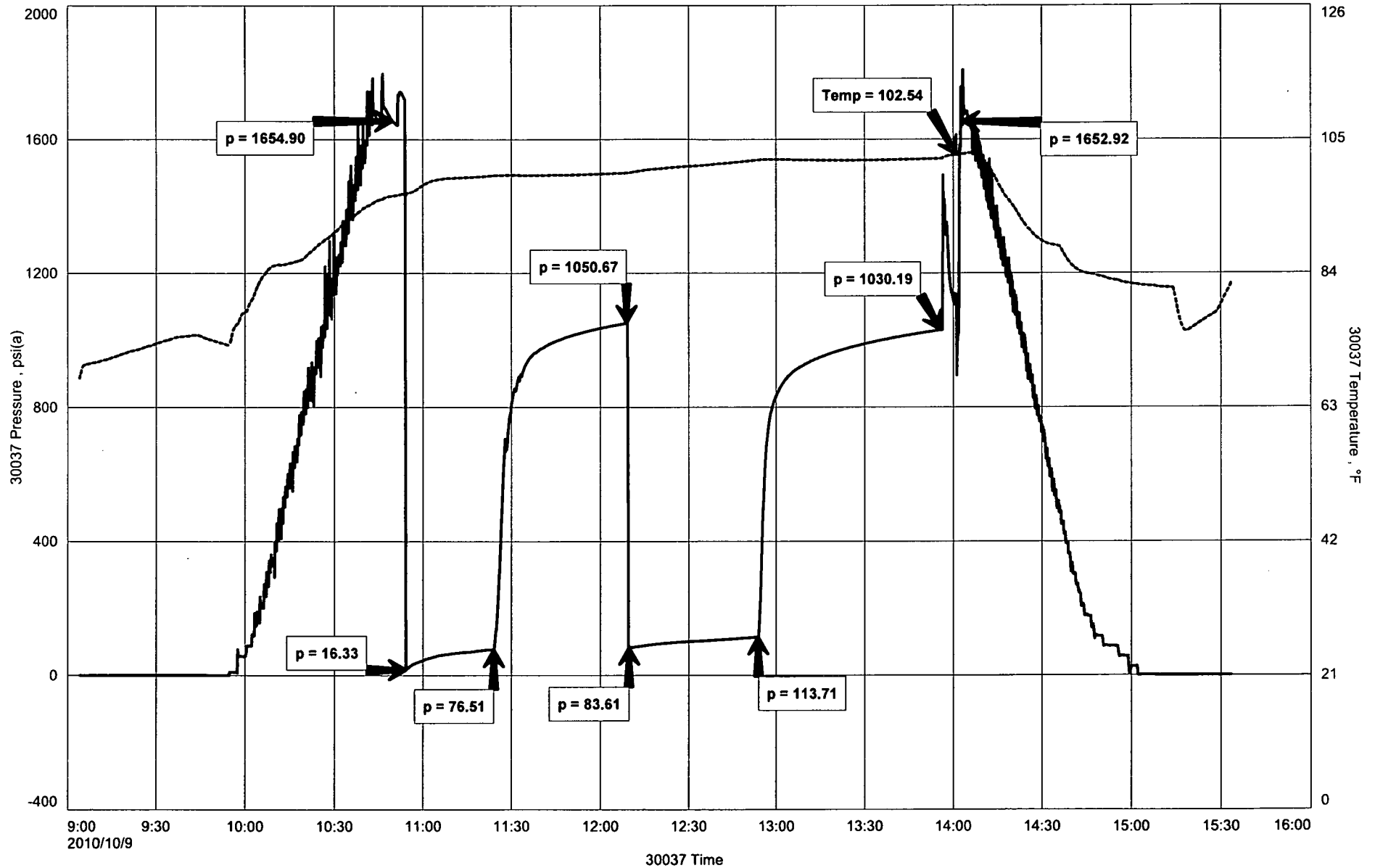
TOOL SAMPLE: 34% OIL, 22% WTR, 44% MUD

PH 8.0
CHLOR 15,000 PPM
RW .31@89 DEG

L.D. DRLG
DST#3 3447-3527 ARB
Start Test Date: 2010/10/09
Final Test Date: 2010/10/09

CHRISTIANSEN 3-15
Formation: DST#3 3447-3527 ARB
Pool: WILDCAT
Job Number: M038

CHRISTIANSON 3-15





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: CHRST3-15DST3

TIME ON: 09:04
 TIME OFF: 15:34

Company L.D. DRLG Lease & Well No. CHRISTIANSEN #3-15
 Contractor PETROMARK RIG 2 Charge to L.D. DRLG
 Elevation 1848 EST GL Formation ARB Effective Pay _____ Ft. Ticket No. M038
 Date 10-9-10 Sec. 15 Twp. 21 S Range 12 W County STAFFORD State KANSAS
 Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 3447 ft. to 3527 ft. Total Depth 3527 ft.
 Packer Depth 3442 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 3447 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3436 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3524 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
 Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
 Mud Type CHEMICAL Viscosity 67 Drill Collar Length 120 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 10.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 5,000 P.P.M. Drill Pipe Length 3210 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 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: WSB, BOB 25 MIN (VWBB)
 2nd Open: WSB, BOB 32 MIN (NO BB)

Recovered <u>179</u> ft. of <u>GIP</u>	
Recovered <u>73</u> ft. of <u>CLEAN OIL GRAVITY 39.2@60 DEG</u>	
Recovered <u>63</u> ft. of <u>GWOCM 6% GAS, 14% OIL, 20% WTR, 60% MUD</u>	
Recovered <u>120</u> ft. of <u>GWOCM 8% GAS, 14% OIL, 20% WTR, 58% MUD</u>	
Recovered <u>256</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of <u>PH 8.0</u>	Other Charges
Remarks: <u>CHLOR 15,000 PPM</u>	Insurance
<u>RW .31@89 DEG</u>	
<u>TOOL SAMPLE: 34% OIL, 22% WTR, 44% MUD</u>	Total

Time Set Packer(s) 10:55 A.M. P.M. Time Started Off Bottom 1:55 P.M. A.M. P.M. Maximum Temperature 103
 Initial Hydrostatic Pressure..... (A) 1655 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 77 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1051 P.S.I.
 Final Flow Period..... Minutes 45 (E) 84 P.S.I. to (F) 114 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1030 P.S.I.
 Final Hydrostatic Pressure..... (H) 1653 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
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CHRST3-15DST4

TIME ON: 20:54 (10-09)

TIME OFF: 03:34 (10-10)

Company L.D. DRLG Lease & Well No. CHRISTIANSEN #3-15
Contractor PETROMARK RIG 2 Charge to L.D. DRLG
Elevation 1848 EST GL Formation ARB Effective Pay _____ Ft. Ticket No. M039
Date 10-9-10 Sec. 15 Twp. _____ 21 S Range _____ 12 W County STAFFORD State KANSAS
Test Approved By JOSH AUSTIN Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 3447 ft. to 3539 ft. Total Depth 3539 ft.
Packer Depth 3442 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3447 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3436 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3536 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
Mud Type CHEMICAL Viscosity 67 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 10.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,000 P.P.M. Drill Pipe Length 3302 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 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: WSB, BUILT TO 10" (NO BB)
2nd Open: WSB, BOB 36 MIN (1/2" BB)

Recovered 109 ft. of G.I.P.
Recovered 201 ft. of GOCM 8% GAS, 22% OIL, 70% MUD
Recovered 120 ft. of GOCM 12% GAS, 25% OIL, 60% MUD
Recovered 321 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 47% OIL, 3% WTR, 50% MUD	Total

Time Set Packer(s) 10:32 P.M. A.M. P.M. Time Started Off Bottom 1:32 A.M. A.M. P.M. Maximum Temperature 100

Initial Hydrostatic Pressure..... (A) 1619 P.S.I.
Initial Flow Period..... Minutes 30 (B) 25 P.S.I. to (C) 80 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1043 P.S.I.
Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 123 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1021 P.S.I.
Final Hydrostatic Pressure..... (H) 1612 P.S.I.

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DIAMOND TESTING

Drill Test Report

General Information

Company Name L.D. DRLG

Contact LD DAVIS
Well Name CHRISTIANSEN 3-15
Unique Well ID DST#4 3447-3539 ARB
Surface Location SEC 15-21S-12W STAFFORD CO. KS
Field WILDCAT
Well Type

Job Number M039
Representative MIKE COCHRAN
Well Operator L.D. DRLG
Report Date 2010/10/10
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#4 3447-3539 ARB
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 20:54:00
Final Test Time 03:34:00

Start Test Date 2010/10/09
Final Test Date 2010/10/10

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 109' G.I.P.
201' GOCM 8% GAS, 22% OIL, 70% MUD
120' GOCM 12% GAS, 25% OIL, 60% MUD
321' TOTAL FLUID

TOOLSAMPLE: 47% OIL, 3% WTR, 50% MUD

L.D. DRLG
DST#4 3447-3539 ARB
Start Test Date: 2010/10/09
Final Test Date: 2010/10/10

CHRISTIANSEN 3-15
Formation: DST#4 3447-3539 ARB
Pool: WILDCAT
Job Number: M039

CHRISTIANSEN 3-15

