



KANSAS CORPORATION COMMISSION 1082412
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 # _____

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1082412

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

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

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 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JOYCE 3-22
Doc ID	1082412

Tops

Name	Top	Datum
HEEBNER	3114	-1266
TORONTO	3132	-1284
DOUGLAS	3144	-1296
BROWN LIME	3250	-1402
LANSING	3262	-1414
BASE KANSAS CITY	3486	-1638
VIOLA	3512	-1664
SIMPSON	3534	-1686
ARBUCKLE	3588	-1740

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JOYCE 3-22
Doc ID	1082412

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Tyep and Percent Additives
SURFACE - NEW	12.25	8.625	24	329	A-CON BLEND	175	
SURFACE - CONT	12.25	8.625	24	329	COMMON	175	
PRODUC TION - USED	7.875	4.5	9.5	3698	COMMON	175	2% Gel, 1/4#CellFlake
Rathole	7.875	4.5	9.5	3698	60/40 POZMIX	30	



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 05908 A

DATE _____ TICKET NO. _____

DATE OF JOB <i>2-29-12</i> DISTRICT <i>Pratt</i>		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 <i>L.D. Drilling</i>		LEASE <i>Joyce</i>		WELL NO. <i>3-2</i>
ADDRESS		COUNTY <i>STAFFORD</i>	STATE <i>Ks</i>	
CITY STATE		SERVICE CREW <i>Delgado, Mitchell, Lawrence</i>		
AUTHORIZED BY		JOB TYPE: <i>1 NW - 8 5/8 Surface</i>		

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<i>27283</i>						<i>2-29-12</i>	<i>7</i>			<i>02:00</i>
<i>19903-19905</i>	<i>1/2</i>									<i>03:30</i>
<i>19831-19863</i>	<i>1/2</i>									

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
CP101	A-Cor bleed	SK	175		3150.00
CP100E	Common Cement	SK	175		2700.00
CC102	Celluloflake	Lb	88		325.66
CC109	Calcium Chloride	Lb	825		866.25
CF153	Wooden Cement Plug 8 5/8"	CS	1		160.00
E100	Pickup Mileage	MI	45		191.25
E101	Heavy Equipment Mileage	MI	70		630.00
E113	Bulk Delivery	TN	743		1188.00
CE200	Depth Charge 0-500'	EA	1		1000.00
CE240	Bleeding & Mixing Charge	SK	350		490.00
CE504	Plug Container	EA	1		250.00
S003	Service Supervisor	29	1		175.00

SUB TOTAL *8868.62*

CHEMICAL / ACID DATA:			

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

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

FIELD SERVICE ORDER NO. _____

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>2-29-12</i>
Lease <i>Joyce</i>	Well # <i>3-22</i>	
Field Order # <i>5908</i>	Station <i>P1211</i>	Casing <i>85/8</i>
	Depth <i>334</i>	County <i>STAFFORD</i>
Type Job <i>C.N.W. - 8 5/8 Surface</i>	Formation	Legal Description <i>22-21-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft <i>1754</i>		Acid <i>14 (6.0) 10.0</i>		RATE	PRESS	ISIP
Depth <i>334</i>	Depth	From	To <i>1754</i>	Pre Pad <i>Summit</i>		Max		5 Min.
Volume <i>31.21</i>	Volume	From	To	Pad		Min		10 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection <i>P.C.</i>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>321</i>	Packer Depth	From	To	Flush <i>20.3</i>		Gas Volume		Total Load

Customer Representative <i>Jim</i>	Station Manager <i>Dave Scott</i>	Treater <i>Steve Wilkins</i>
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Service Units <i>07223</i>	<i>19103</i>	<i>FF05</i>	<i>17831</i>	<i>19860</i>				
Driver Names <i>00-00</i>	<i>Marshall</i>	<i>Lawrence</i>						

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>3:30 PM</i>					<i>On Location - Safety Meeting</i>
					<i>Run 85/8 3 5/8 24# casing</i>
					<i>Casing up Bitter</i>
					<i>Break Circ (with P)</i>
<i>5:30</i>	<i>250</i>		<i>3</i>	<i>5</i>	<i>420 AH</i>
<i>5:51</i>	<i>250</i>		<i>66</i>	<i>5</i>	<i>Net 175 shot @ 13 6"/6"</i>
<i>5:45</i>	<i>200</i>		<i>37</i>	<i>5</i>	<i>Net 175 shot @ 15 6"/6"</i>
					<i>2nd Down</i>
					<i>Put in Plug</i>
<i>5:55</i>	<i>0</i>		<i>1</i>	<i>5</i>	<i>Start H2O (with P)</i>
<i>5:58</i>	<i>200</i>		<i>20.10</i>	<i>5</i>	<i>Came to Surface</i>
<i>6:00 PM</i>	<i>200</i>		<i>20.5</i>	<i>4</i>	<i>Plug Done</i>
					<i>Job Complete</i>
					<i>Completed This Job</i>
					<i>Completed 10 hrs TOP</i>



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 05248 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>3-7-12</u> DISTRICT <u>KANSAS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>L.A. Drilling INC</u>		LEASE <u>Joyce 3-22</u> WELL NO.:							
ADDRESS		COUNTY <u>Stafford 22-21-12</u> STATE <u>KANSAS</u>							
CITY STATE		SERVICE CREW <u>Allen, Mike Dale</u>							
AUTHORIZED BY		JOB TYPE: <u>4 1/2" L.S.</u> <u>CNW</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>28443 AU.</u>	<u>1</u>						<u>3-6-12</u>		
<u>19903-19905</u>	<u>1</u>					ARRIVED AT JOB	<u>3-6-12</u>	AM	<u>930</u>
<u>19960-19918</u>	<u>1</u>					START OPERATION	<u>3-7-12</u>	PM	<u>130</u>
						FINISH OPERATION	<u>3-7-12</u>	PM	<u>230</u>
						RELEASED	<u>3-7-12</u>	PM	<u>300</u>
						MILES FROM STATION TO WELL	<u>90-mile</u>		

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP1002	Common Cement	SK	175		\$2800 00
CP103	60/40 P02	SK	30		\$360 00
CC102	cell FLAKE	lb	44		\$162 80
CC112	Cement Friction	lb	50		\$300 00
CC113	Gypsum	lb	825		\$618 75
CC129	FLA-322	lb	60		\$375 00
CC200	Cement Gel	lb	330		\$82 50
CF103	Top Rubber cement Plus 4 1/2"	EA	1		\$80 00
CF250	Guide Shoe Reg 4 1/2" Blue	EA	1		\$ N/C
CF1450	Flappertype INSERT Float Valve	EA	1		N/C
CF1650	Turbolizer 4 1/2" Blue	EA	6		\$510 00
E100	unit mileage Charge Pickup	mi.	45		\$191 25
E101	Heavy Equip mileage	mi.	90		\$630 00
E113	Bulk Deliberly chg.	TN	430		\$687 60
CE204	Depth Charge 3801-4000	4-hr	1		\$2160 00
CE240	Blending & mixing Service chg.	SK	205		\$287 00
CE504	Plug container Utilization chg	Job	1		\$250 00
S003	Service Supervisor first 8hrs on job	EA	1		\$175 00
CC151	MUD Flush	gal	1000		\$860 00
SUB TOTAL					\$8654.37

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Allen F. Ward THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Jim Mills
FIELD SERVICE ORDER NO. _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer L.O. Drilling Inc	Lease No. # 3-22	Date 3-7-12
Lease Joyce	Well # # 3-22	
Field Order # 05248A	Station Pratt KS	Casing 4 1/2"
Type Job 4 1/2" L.S.	Formation CNW	Depth 3698
		County Stafford
		State KS
		Legal Description 22-21-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
4 1/2"				175 SKs common @ 14.73			
Depth 3698	Depth	From	To	Pre Pad 30 SKs 60/40 Por	Max 14 #	14 #	5 Min Plug R.H.
Volume 576 BBL	Volume	From	To	Pad	Min		10 Min.
Max Press 1000 #	Max Press	From	To	Frac 1000 gal mud flush	Avg		15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3685	Packer Depth	From	To	Flush Disp H2O	Gas Volume		Total Load

Customer Representative Jim TP	Station Manager Scotty	Treater Allen
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Service Units	19903	19905	19960	19918					
Driver Names	Allen	Mike	Matt	Dale	Phye				
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log Petromark II				
9:30 PM					on loc. Discuss Safety, Setup, Plans				
10:00					Lay down Kelly. - Rig up To Run csg				
					4 1/2" 9.5# Shoe Joint 12.80'				
					w/ Guide Shoe + Insert Fill in coll				
					cent. 1-3-5-7-9-11				
11:15					Start 4 1/2" casing.				
12:5 AM					TAG Bottom @ 3700' set @ 3698' + c				
2:00	200 #		24	5	Pump 1000 gal mud flush				
			5	5	Pump 5 BBL H2O spacer				
				5	mix + Pump 175 SKs common w/				
					add. @ 15 #/gal				
			44 1/2		Finish mix washout Pump + Line				
				6	Drop Top Rubber Plug. 4 1/2" Start Disp.				
				5	caught lift. 37 BBL out				
2:30	500 # 1000 # 0 #		59 1/2	2	Plug down				
					Release PST. OK.				
			7		Plug Rat Hole w/ 30 SKs 60/40 Por				
					washup + Rack up Equip.				
3:30					Job complete.				
					Thanks				
					Allen, Mike, Dale.				



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: _____	

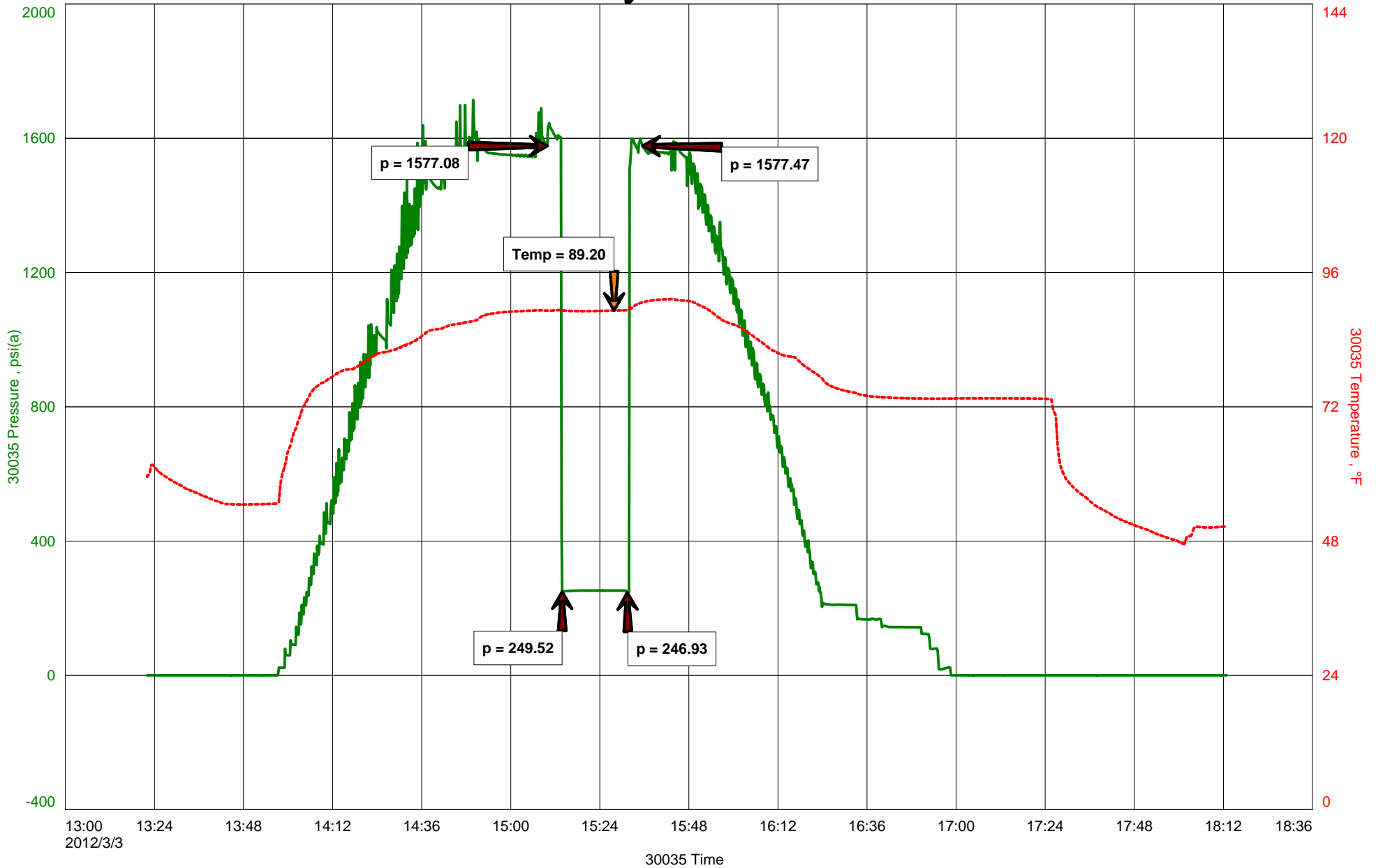
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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

LD Drilling Inc
DST #1 Lansing B-G 3290-3365'
Start Test Date: 2012/03/03
Final Test Date: 2012/03/03

Joyce #3-22
Formation: DST #1 Lansing B-G 3290-3365'
Pool: Wildcat
Job Number: S0103

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact

Well Name

Unique Well ID

Surface Location

Well License Number

Field

Well Type

LD Davis

Joyce #3-22

DST #1 Lansing B-G 3290-3365'

SEC 22-21S-12W Stafford County

Sandra

Vertical

Job Number

S0103

Representative Jacob McCallie

Well Operator LD Drilling Inc

Report Date 2012/03/03

Prepared By Jacob McCallie

Test Type

Formation

Well Fluid Type

Start Test Date

Final Test Date

Gauge Name

Gauge Serial Number

Drill Stem Test

DST #1 Lansing B-G 3290-3365'

01 Oil

2012/03/03

2012/03/03

30035

Start Test Time

13:22:00

Final Test Time

18:14:00

Test Results

RECOVERED:

473' DM 100% DM
473' TOTAL FLUID

TOOL SAMPLE:

100% DM



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

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

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

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

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

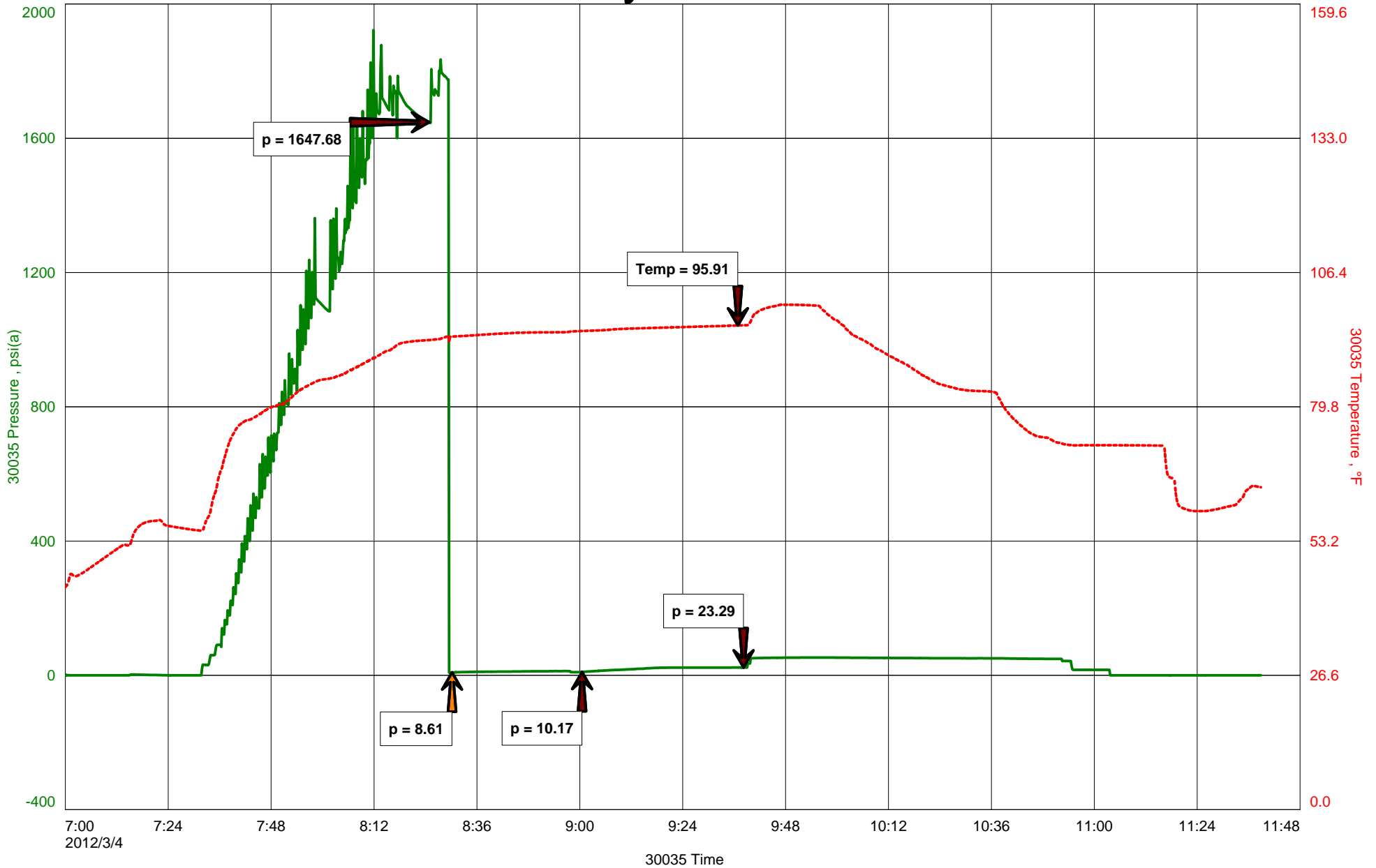
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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

LD Drilling Inc
DST #2 Conglomerate 3480-3520'
Start Test Date: 2012/03/04
Final Test Date: 2012/03/04

Joyce #3-22
Formation: DST #2 Conglomerate 3480-3520'
Pool: Wildcat
Job Number: S0104

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0104
Well Name	Joyce #3-22	Representative	Jacob McCallie
Unique Well ID	DST #2 Conglomerate 3480-3520'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/03/04
Well License Number		Prepared By	Jacob McCallie
Field	Saundra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #2 Conglomerate 3480-3520'		
Well Fluid Type	01 Oil	Start Test Time	07:00:00
		Final Test Time	11:40:00
Start Test Date	2012/03/04		
Final Test Date	2012/03/04		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:

3'	DM	100% DM
3'	TOTAL FLUID	

TOOL SAMPLE:

100% DM



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

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

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

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

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

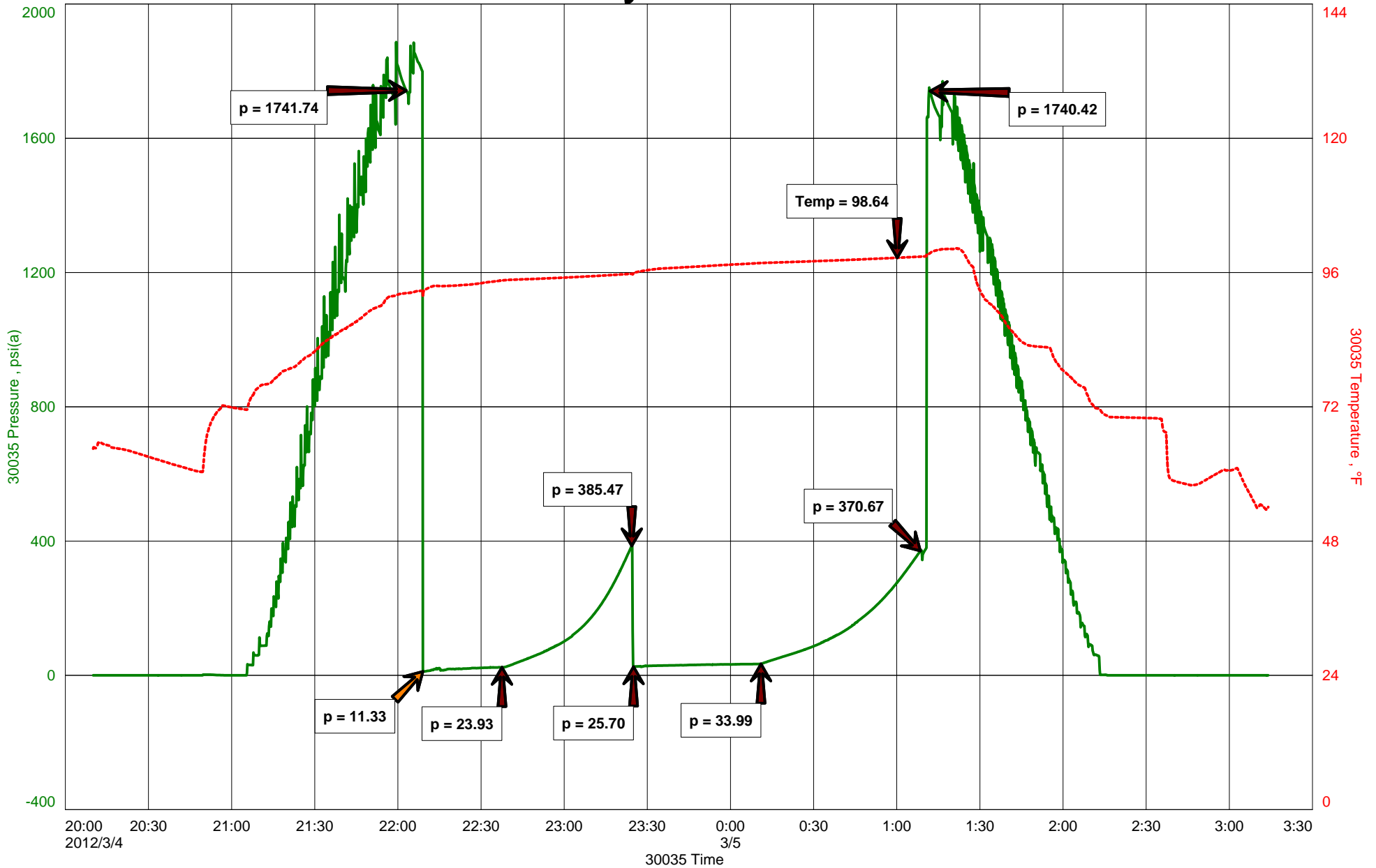
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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

LD Drilling Inc
DST #3 Arbuckle 3530-3607'
Start Test Date: 2012/03/04
Final Test Date: 2012/03/05

Joyce #3-22
Formation: DST #3 Arbuckle 3530-3607'
Pool: Wildcat
Job Number: S0105

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0105
Well Name	Joyce #3-22	Representative	Jacob McCallie
Unique Well ID	DST #3 Arbuckle 3530-3607'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12 W Stafford County	Report Date	2012/03/05
Well License Number		Prepared By	Jacob McCallie
Field	Saundra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #3 Arbuckle 3530-3607'		
Well Fluid Type	01 Oil	Start Test Time	20:10:00
		Final Test Time	03:15:00
Start Test Date	2012/03/04		
Final Test Date	2012/03/05		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERY:

126'	GIP			
8'	CO	100% CO		GRAVITY: 37 @ 60 degrees F
54'	Oily Mud	18% OIL 82% MUD		
62'	TOTAL FLUID			

TOOL SAMPLE:

92% OIL 8% MUD



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

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

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

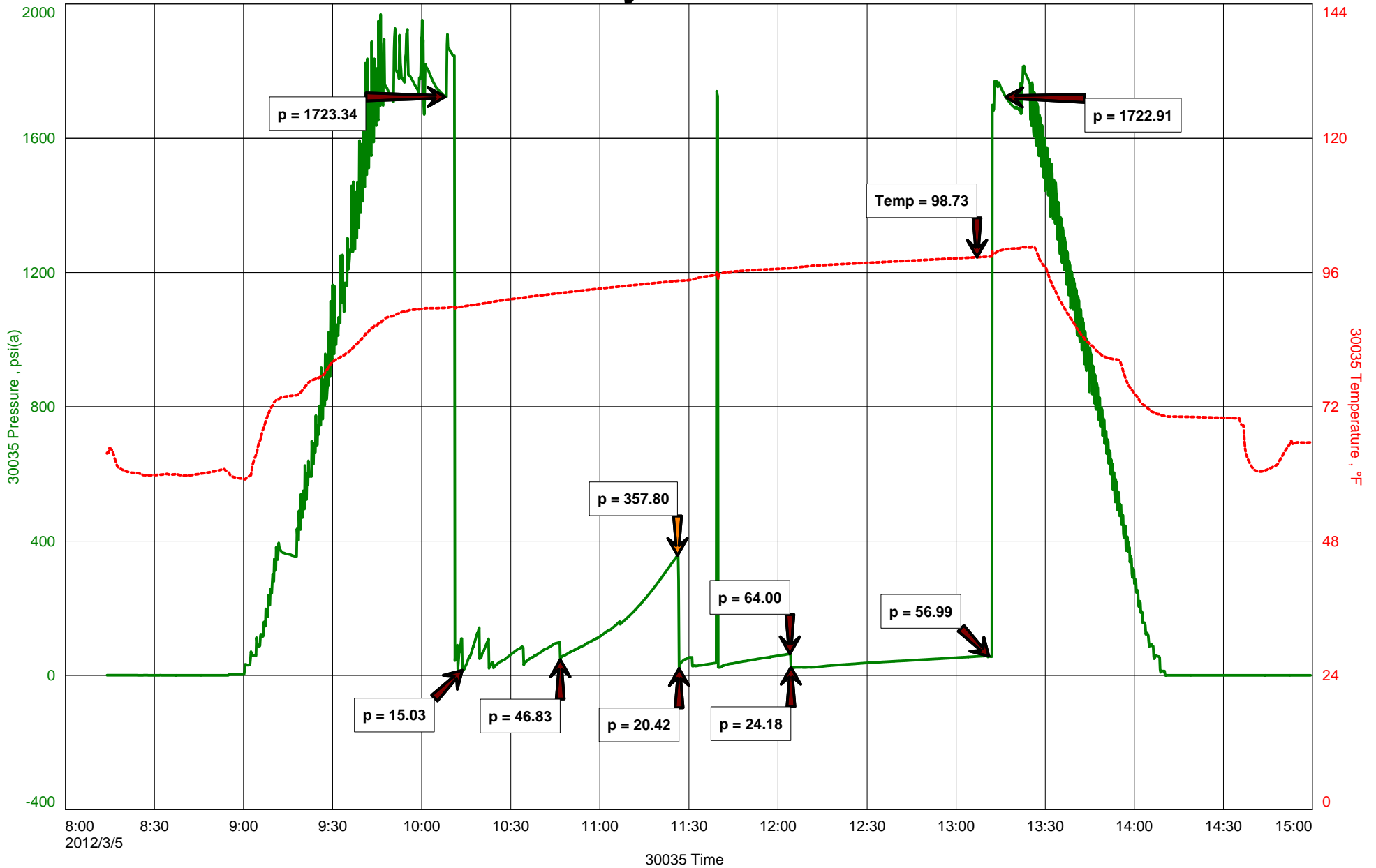
Blow: 1st Open: _____
2nd Open: _____

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

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

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.

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling INC

Contact

LD Davis

Well Name

Joyce #3-22

Job Number

S0106

Unique Well ID

DST #4 Arbuckle 3607-3620'

Representative

Jacob McCallie

Surface Location

SEC 22-21S-12W Stafford County

Well Operator

LD Drilling INC

Well License Number

Report Date

2012/03/05

Field

Saundra

Prepared By

Jacob McCallie

Well Type

Vertical

Test Type

Drill Stem Test

Formation

DST #4 Arbuckle 3607-3620'

Well Fluid Type

01 Oil

Start Test Time

08:14:00

Start Test Date

2012/03/05

Final Test Time

15:00:00

Final Test Date

2012/03/05

Gauge Name

30035

Gauge Serial Number

Test Results

RECOVERED:

10'

Oily Specked Mud

1% Oil 99% MUD

10'

TOTAL FLUID

TOOL SAMPLE:

3% OIL 97% MUD



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

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

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

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

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

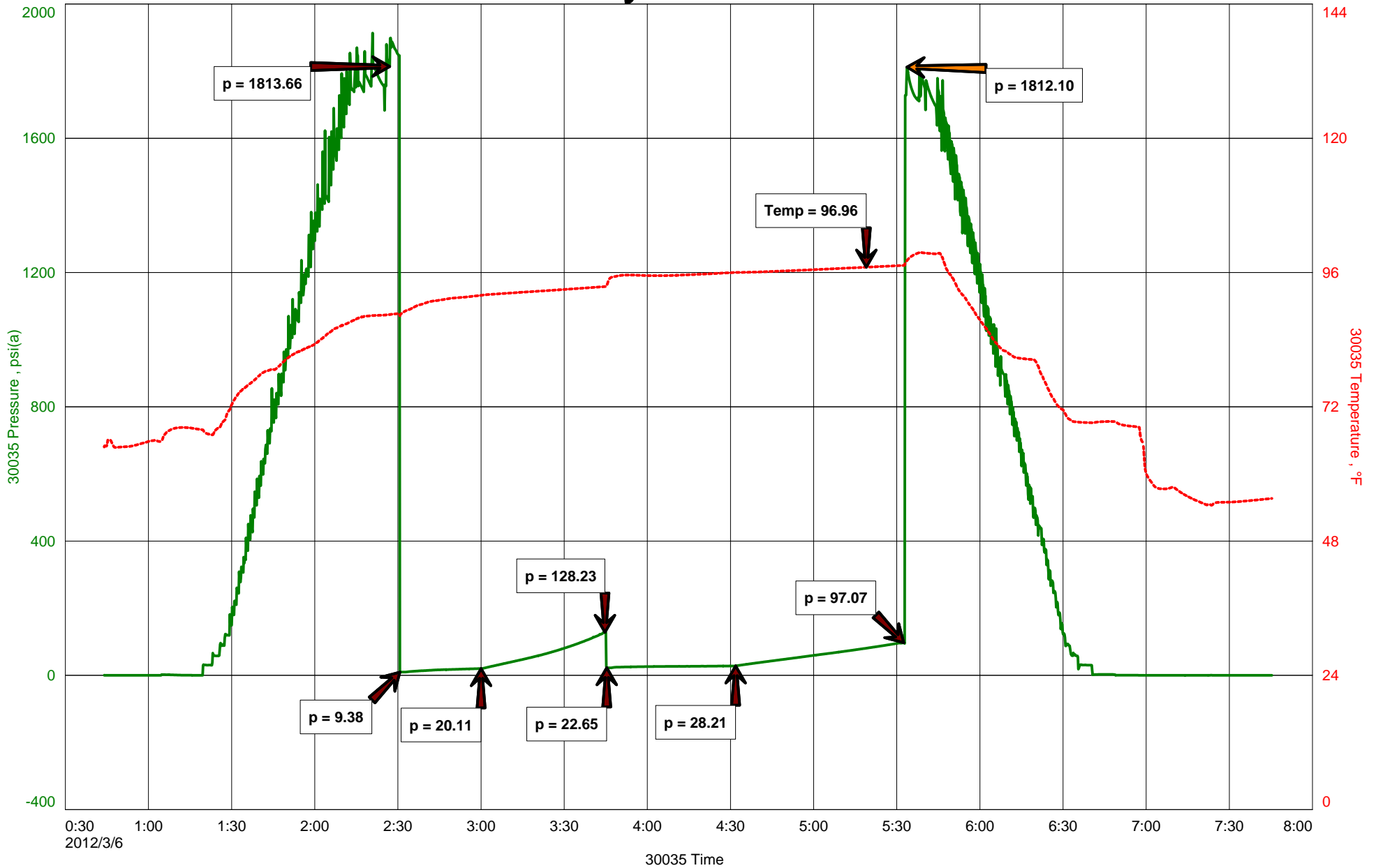
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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

LD Drilling Inc
DST #5 Arbuckle 3620-3635'
Start Test Date: 2012/03/06
Final Test Date: 2012/03/06

Joyce #3-22
Formation: DST #5 Arbuckle 3620-3635'
Pool: Wildcat
Job Number: S0107

Joyce #3-22



Diamond Testing

General information Report

General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	S0107
Well Name	Joyce #3-22	Representative	Jacob McCallie
Unique Well ID	DST #5 Arbuckle 3620-3635'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/03/06
Well License Number		Prepared By	Jacob McCallie
Field	Saundra		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	00:44:00
Formation	DST #5 Arbuckle 3620-3635'	Final Test Time	07:46:00
Well Fluid Type	01 Oil		
Start Test Date	2012/03/06		
Final Test Date	2012/03/06		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:

20'	GIP					
54'	Gas/Oil WTRY MUD	6% Gas	10% Oil	17% WTR	67% Mud	
54'	TOTAL FLUID					

PH: 9

Chlorides: 12,000 ppm

TOOL SAMPLE:

40% OIL 16% WTR 44% MUD

OPERATOR

Company: L.D. Drilling, Inc.
 Address: 7 SW 26th AVE
 Great Bend, KS 67530

Contact Geologist:
 Contact Phone Nbr: 620-793-3051
 Well Name: Joyce # 3-22
 Location: 8 5/8" @ 329'
 Pool:
 State: Kansas

API: 15-185-23736-00-00
 Field: Sandra
 Country: USA

Scale 1:240 Imperial

Well Name: Joyce # 3-22
 Surface Location: 8 5/8" @ 329'
 Bottom Location:
 API: 15-185-23736-00-00
 License Number:
 Spud Date: 2/29/2012 Time: 3:34 PM
 Region: NW-SE-SW-SE 22-21s-12w
 Drilling Completed: 3/6/2012 Time: 5:50 PM
 Surface Coordinates: 600' From South Line & 1750' From East Line
 Bottom Hole Coordinates:
 Ground Elevation: 1843.00ft
 K.B. Elevation: 0.00ft
 Logged Interval: 2900.00ft To: 3698.00ft
 Total Depth: 3700.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 600' From South Line
 E/W Co-ord: 1750' From East Line

LOGGED BY

Company: Musgrove Petroleum
 Address: 212 Main St.
 Claflin, KS 67525
 Phone Nbr: 620-546-3960
 Logged By: Geologist Name: Josh Austin

CONTRACTOR

Contractor: Petromark Drilling, LLC
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 2/29/2012 Time: 3:34 PM
 TD Date: 3/6/2012 Time: 5:50 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 0.00ft Ground Elevation: 1843.00ft
 K.B. to Ground: 1848.00ft

NOTES

On the basis of the Drill Stem Test and after reviewing the electric logs, it was recommended that 4 1/2" production casing be set on the Joyce 3-22 to further test the Arbuckle and Lansing zones.

L.D. Drilling, Inc.
well comparison sheet

DRILLING WELL Joyce #3-22					COMPARISON WELL Joyce #1				COMPARISON WELL Rose #9			
1848 KB					1847 KB		Structural Relationship		1851 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	642	1206			638	1209						
Heebner	3116	-1268	3114	-1266	3110	-1263	-5	-3	3108	-1257	-11	-9
Toronto	3134	-1286	3132	-1284					3128	-1277	-9	-7
Douglas	3147	-1299	3144	-1296								
Brown Lime	3254	-1406	3250	-1402	3244	-1397	-9	-5				
Lansing	3266	-1418	3262	-1414	3256	-1409	-9	-5	3255	-1404	-14	-10
Base KC	3490	-1642	3486	-1638					3484	-1633	-9	-5
Viola	3515	-1667	3512	-1664	3510	-1663	-4	-1				
Simpson	3536	-1688	3534	-1686	3538	-1691	-7	5	3523	-1672	-26	-14
Arbuckle	3590	-1742	3588	-1740	3578	-1731	-11	-9	3573	-1722	-20	-18
Total Depth	3700	-1852	3698	-1850	3600	-1753			3654	-1803		



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST2

TIME ON: 07:00:00
TIME OFF: 11:40:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Conglomerate Effective Pay _____ Ft. Ticket No. S0104
Date 3-4-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3480 ft. to 3520 ft. Total Depth 3520 ft.
Packer Depth 3475 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3480 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3468 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) 3517 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 52 Drill Collar Length 119 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 2,000 P.P.M. Drill Pipe Length 3335 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 40 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: 1/4"- Died in 12 1/2 min **NOBB**
2nd Open: _____

Recovered 3 ft. of DM 100% DM

Recovered 3 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Price Job

Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 100% DM	Total
Time Set Packer(s) <u>8:30 AM</u> ^{A.M.} / _{P.M.} Time Started Off Bottom <u>9:30 AM</u> ^{A.M.} / _{P.M.} Maximum Temperature <u>96</u>	
Initial Hydrostatic Pressure..... (A) <u>1648</u> P.S.I.	
Initial Flow Period..... Minutes <u>30</u> (B) <u>9</u> P.S.I. to (C) <u>10</u> P.S.I.	
Initial Closed In Period..... Minutes <u>30</u> (D) <u>23</u> 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) <u>1648</u> P.S.I.	



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST3

TIME ON: 20:10:00 3-4-12
TIME OFF: 03:15:00 3-5-12

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0105
Date 3-5-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 3530 ft. to 3507 ft. Total Depth 3607 ft.
Packer Depth 3525 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3530 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3518 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) 3604 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 62 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,000 P.P.M. Drill Pipe Length 3385 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF
Did Well Flow? NO Reversed Out NO Anchor Length 77 ft. Size 4 1/2-FH
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8

Blow: 1st Open: 1/2" Blow- Built to 4 1/4" in 30 min **NOBB**
2nd Open: 1" Blow- Built to 8" in 45 min **1 1/2" BB**

Recovered 126 ft. of GIP
Recovered 8 ft. of CO 100% CO GRAVITY: 37 @ 60 degrees F
Recovered 52 ft. of Oily Mud 18% OIL 82% MUD
Recovered 62 ft. of TOTAL FLUID
Recovered _____ ft. of _____ Price Job _____
Recovered _____ ft. of _____ Other Charges _____

Remarks:	Insurance
TOOL SAMPLE: 92% OIL 8% MUD	Total
Time Set Packer(s) <u>10:08 PM 3-4-12</u> ^{A.M.} / _{P.M.}	Time Started Off Bottom <u>1:08 AM 3-5-12</u> ^{A.M.} / _{P.M.}
Initial Hydrostatic Pressure..... (A) <u>1742</u> P.S.I.	Maximum Temperature <u>99</u>
Initial Flow Period..... Minutes <u>30</u> (B) <u>11</u> P.S.I. to (C) <u>24</u> P.S.I.	
Initial Closed In Period..... Minutes <u>45</u> (D) <u>385</u> P.S.I.	
Final Flow Period..... Minutes <u>45</u> (E) <u>26</u> P.S.I. to (F) <u>34</u> P.S.I.	
Final Closed In Period..... Minutes <u>60</u> (G) <u>371</u> P.S.I.	
Final Hydrostatic Pressure..... (H) <u>1740</u> P.S.I.	



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: joyce3-22DST4

TIME ON: 08:14:00
TIME OFF: 15:00:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22
Contractor Petromark Rig #2 Charge to LD Drilling Inc.
Elevation 1848 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0106
Date 3-5-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 4 Interval Tested from 3607 ft. to 3620 ft. Total Depth 3620 ft.
Packer Depth 3602 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3607 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3595 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) 3617 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 62 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,000 P.P.M. Drill Pipe Length 3462 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 13 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB- Built to 1/4" in 30 min **NOBB**
2nd Open: WSB- Built to 1/4" in 45 min **NOBB**

Recovered 10 ft. of Oil Specked Mud 1% OIL 99% MUD
Recovered 10 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: Flushed tool on second open. Price Job _____
Other Charges _____
Insurance _____

TOOL SAMPLE: 3% OIL 97% MUD

Time Set Packer(s) 10:10 AM ^{A.M.}/_{P.M.} Time Started Off Bottom 1:10 PM ^{A.M.}/_{P.M.} Maximum Temperature 99

Initial Hydrostatic Pressure..... (A) 1723 P.S.I.

Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 47 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 358 P.S.I.

Final Flow Period..... Minutes 45 (E) 20 P.S.I. to (F) 64 P.S.I.

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

Final Hydrostatic Pressure..... (H) 1723 P.S.I.



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: joyce3-22DST5

TIME ON: 00:44:00
 TIME OFF: 07:46:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22

Contractor Petromark Rig #2 Charge to LD Drilling Inc.

Elevation 1848 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0107

Date 3-6-12 Sec. 22 Twp. 21 S Range 12 W County Stafford State KANSAS

Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 5 Interval Tested from 3620 ft. to 3635 ft. Total Depth 3635 ft.

Packer Depth 3615 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Packer Depth 3620 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3608 ft. Recorder Number 30035 Cap. 10000 P.S.I.

Bottom Recorder Depth (Outside) 3632 ft. Recorder Number 3851 Cap. 5700 P.S.I.

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

Mud Type Chem Viscosity 65 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 5,000 P.P.M. Drill Pipe Length 3475 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 15 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: 1/4" Blow- Built to 2 1/2" in 30 min **NOBB**

2nd Open: 1/2" Blow- Built to 3" in 45 min **NOBB**

Recovered 20 ft. of GIP

Recovered 54 ft. of Gas/Oil Cut WTRY MUD 6% GAS 10% OIL 17% WTR 67% MUD

Recovered 54 ft. of TOTAL FLUID

Recovered _____ ft. of Ph: 9

Recovered _____ ft. of Chlorides: 12,000 ppm

Recovered _____ ft. of _____

Remarks: _____

	Price Job
	Other Charges
	Insurance
	Total

TOOL SAMPLE: 40% OIL 16% WTR 44% MUD

2:30 AM ^{A.M.} 5:30 AM ^{A.M.} 97

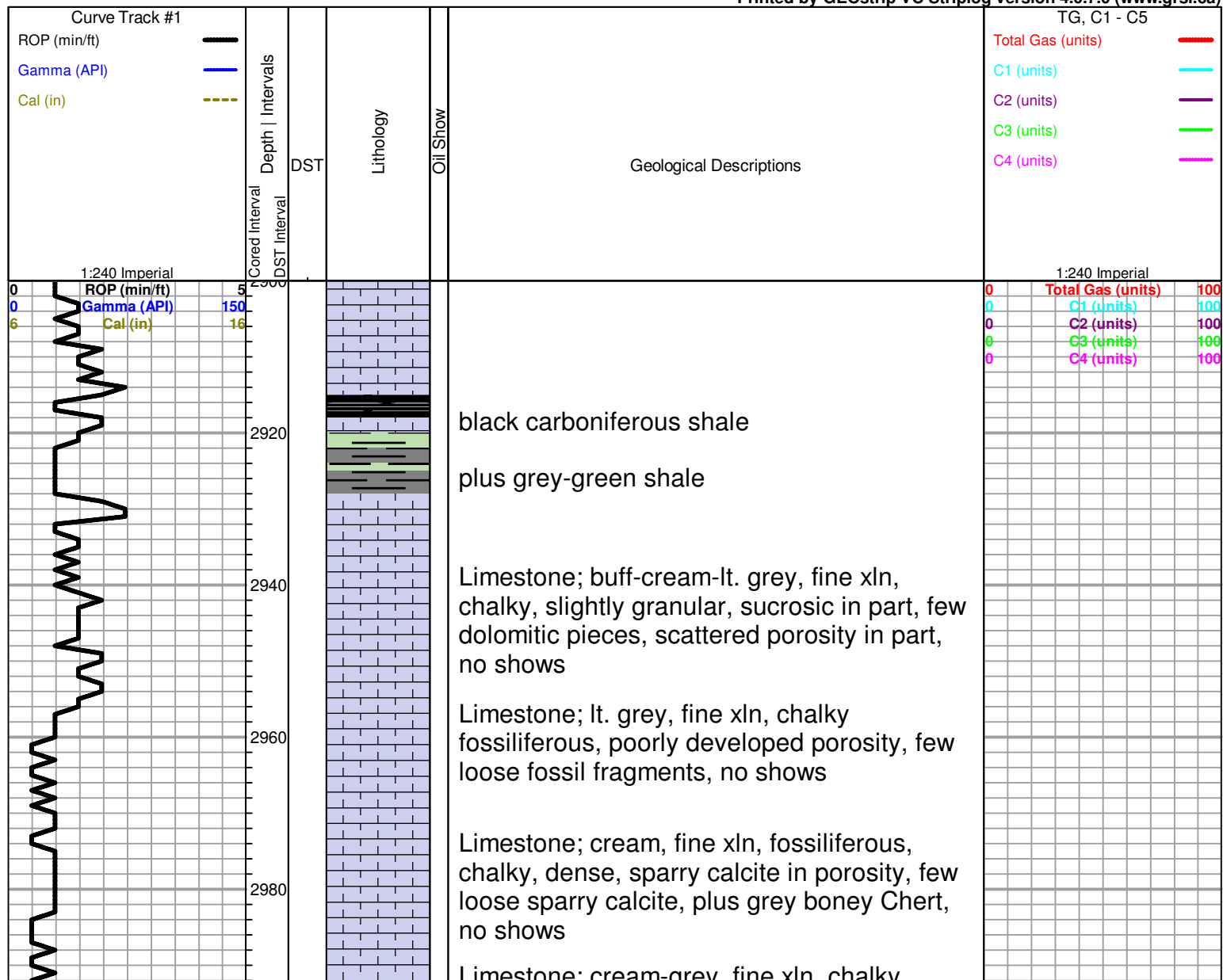
Time Set Packer(s)	2:50 AM	P.M.	Time Started Off Bottom	9:50 AM	P.M.	Maximum Temperature	97
Initial Hydrostatic Pressure			(A)	1814		P.S.I.	
Initial Flow Period	Minutes	30	(B)	9	P.S.I. to (C)	20	P.S.I.
Initial Closed In Period	Minutes	45	(D)	128	P.S.I.		
Final Flow Period	Minutes	45	(E)	23	P.S.I. to (F)	28	P.S.I.
Final Closed In Period	Minutes	60	(G)	97	P.S.I.		
Final Hydrostatic Pressure			(H)	1812		P.S.I.	

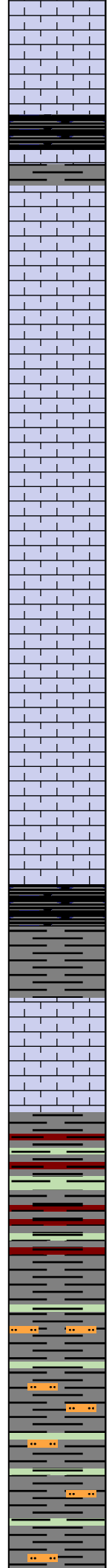
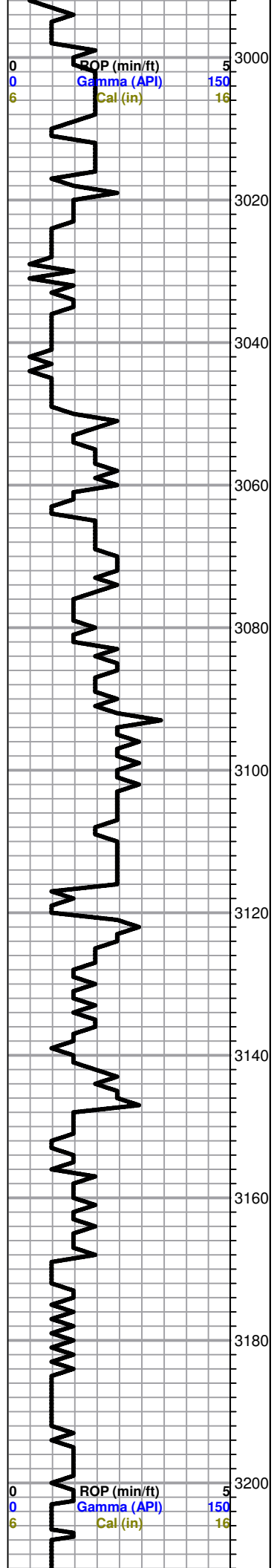
ROCK TYPES									
	Cht		Dolprim		shale, grn		Carbon Sh		Ss
	Congl		Lmst fw7>		shale, gry		shale, red		

ACCESSORIES	
	STRINGER
	Siltstone

OTHER SYMBOLS	
	DST Int
	DST alt
	Core
	tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Limestone; cream grey, fine xln, chalky, dense, few fossil cast-inter xln type porosity N/S

black carboniferous shale

Limestone; cream-buff, fine-medium xln, chalky, few scattered porosity, fossiliferous-oolitic in part, no shows

Limestone; as above granular in part

Limestone; cream-tan, fine xln, fossiliferous, chalky in part, dense, plus grey boney Chert

Limestone; cream-grey, fine xln, dense, chert in part, oolitic-fossiliferous, poor porosity, no shows

Limstone; as above plus grey boney Chert

HEEBNER 3116 (-1268)
black carboniferous shale

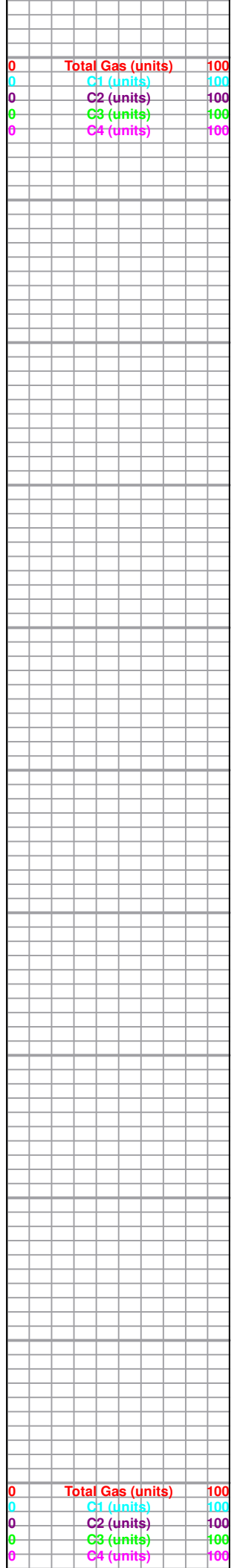
TORONTO 3134 (-1286)
Limestone; cream-white, fine xln, chalky, dense in part, finely oolitic, poorly developed porosity, trace black "dead oil" stain, NSFO,

DOUGLAS 3147 (-1299)
Shale; marroon, grey, green

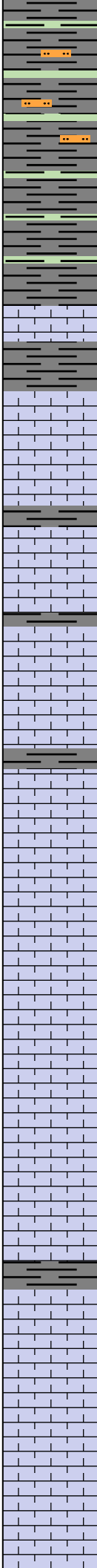
Shale; as above slightly silty in part

Shale; grey-greyish green, soft, micaceous, silty in part

Shale as above



3220
3240
3260
3280
3300
3320
3340
3360
3380
3400
3420



Silty greyish green-grey, micaceous; Shale

Shale as above plus dark grey shale

BROWN LIME 3254 (-1406)

Limestone; tan-brown, fine xln, dense, slightly cherty, few fossiliferous pieces

LANSING 3266 (-1418)

Limestone; cream-lt. grey, fine xln, dense, fossiliferous in part, poor visible porosity, plus grey boney fossiliferous Chert

Limestone; cream, fine xln, desne, chalky in part, cherty, no shows

Limestone; grey-cream, fossiliferuos-oolitic, chalky, trace vuggy-inter xln porosity, black-bron stain, NSFO, very faint odor

Limestone; lt. grey, fine xln, dense, chalky, trace finely vuggy porosity, dark brown stain, trace free oil, few gas bubbles, faint odor

Limestone; cream-grey, highly fossiliferous-oolitic in part, trace inter xln porosity, dense, cherty, trace brown stain, trace free oil, no odor

Limestone; cream-grey, slightly oomoldic, chalky, oolitic, fair oomoldic type porosity, no shows

Limestone; cream fossiliferous-oolitic, chalky, few scattered type porosity, no shows

Limestone as above

Limestone; cream, oomoldic, oolitic, chalky, fair-good oomoldic porosity (barren)

Limestone; cream-buff, highly oolitic, chalky in part, fair porosity, brown stain, trace free oil, no odor

DST #1 3290-3365
-MISRUN-
HOLE IN THE PIPE

0
0
6

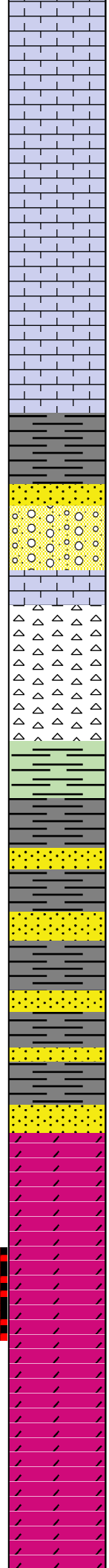
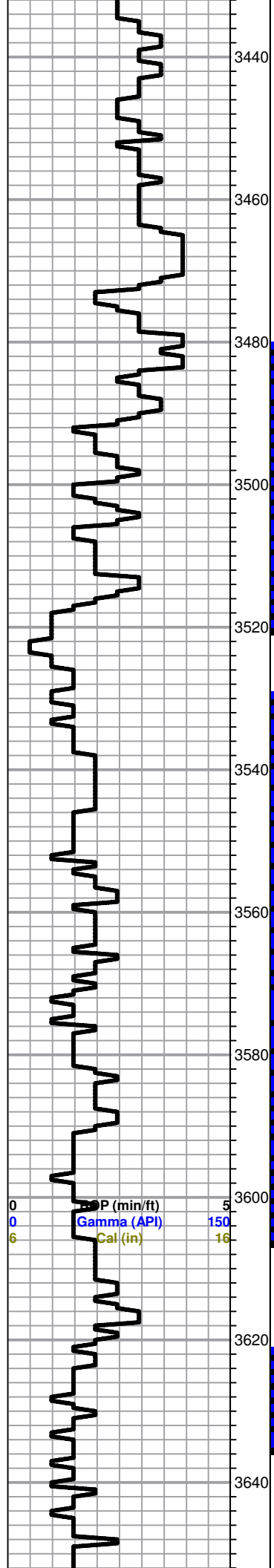
ROP (mm/ft)
Gamma (API)
GAM (GPI)

5
150
16

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

3440
3460
3480
3500
3520
3540
3560
3580
3600
3620
3640

0 P (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16



Limestone; cream-white, fine xln, chalky, oolitic, poor visible porosity, no shows

Limestone; grey-cream, fine xln, chalky, dense, poorly developed porosity, no shows

Limestone; cream-buff, highly fossiliferous in part, slightly granular, few inter xln type porosity, trace brown-black stain, slight show of free oil, no odor

BASE KANSAS CITY 3490 (-1642)
grey-greyish green shale, silty in part

Sand; tan-cream, fine grained, sub angular, sub rounded, friable, fair intergranular porosity, trace brown stain, spotty SFO, very

VIOLA 3515 (-1667)
Chert; cream-yellow, grey, boney, few semi tripolitic

Trace chert; as above, dark brown stain, with gas bubbles

SIMPSON SHALE 3536 (-1688)
Shale; grey-olive green, waxy in part

trace Sand; grey, fine grained, poorly sorted, sub angular, sub rounded, friable, calcareous

dark grey-olive green shale, plus sand as above

Sand; buff-tan, very fine grained, fair-good intergranular porosity, brown stain, trace spotty free oil, faint odor

ARBUCKLE (3590 -1742)

Dolomite; cream-buff, fine-medium, xln, slightly sucrosic, black-brown stain, SFO, good odor

Dolomite; lt. grey-cream, medium-coarse xln, fair-good porosity, black-brown stain, SFO and Saturarion, Strong odor

Dolomite; as above

Dolomite; lt. grey-cream, medium xln, scattered porosity, black-brown stain, SFO, good odor

DST #2 3480-3520
30-30-X-X
Blow; died in 12 minutes
Recovery; 3' mud
Pressure;
ISIP 23
FSIP -
IFP 9-10
FFP ---

DST #3 3530-3607
30-45-45-60
Blow; built to 4 1/2"
Final built to 8"
1 1/2" blow back

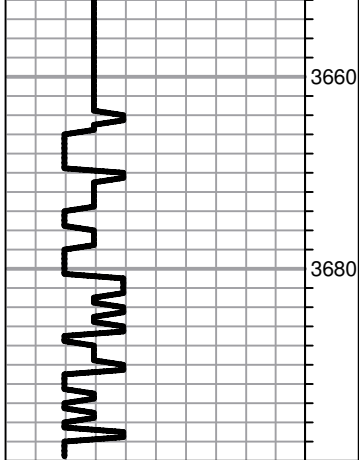
Recovery;
126' GIP
8' Clean Oil
54' Oily Mud
(18%oil 82%mud)

Pressure
ISIP 385
FSIP 371
IFP 11-24
FFP 26-34
HSH 1742-1740

DST#4 3607-3620
30-45-45-60
Blow; weak
Recovery;
10' oil specked mud
Plugging Action Flushed
Tool on Second Open
Pressure;
ISIP 358
FSIP 60
IFP 15-47
FFP 20-64
HSH 1723-1723

DST #5 3620-3635
30-45-45-60
Blow; built to 2 1/2"

0
1
2
3
4
5



Dolomite; as above spotty free oil show
trace white boney Chert

Dolomite; white-lt. grey, fine-medium xln, fair-
good inter xln-finely vuggy type porosity,
black stain, trace free oil, fair-good odor, plus
Chert; as above

Dolomite; as above, black- brown stain, trace
spotty free oil, faint-fair odor

Blow; built to 2 1/2"
Final built to 3"

Recovery;
20' GIP
54' gocwm
(6%g 10%o 17%w 67%am)

Pressures;
ISIP 128
FSIP 97
IFP 9-20
FFP 23-28
HSH 1814-1812