



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 # 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     SLOW  
 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 #: \_\_\_\_\_

<u>02/29/2012</u>	<u>03/06/2012</u>	<u>03/24/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23736-00-00  
Spot Description: \_\_\_\_\_  
NW SE SW SE Sec. 22 Twp. 21 S. R. 12  East  West  
600 Feet from  North /  South Line of Section  
1750 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Stafford  
Lease Name: JOYCE Well #: 3-22  
Field Name: SAUNDRA  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1843 Kelly Bushing: 1848  
Total Depth: 3700 Plug Back Total Depth: 3611  
Amount of Surface Pipe Set and Cemented at: 329 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: 400 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: L. D. DRILLING, INC.  
Lease Name: DAVIS RANCH OWWD License #: 6039  
Quarter NW Sec. 14 Twp. 21 S. R. 12  East  West  
County: STAFFORD Permit #: D30736

**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	
<input type="checkbox"/> Letter of Confidentiality Received	Date: _____
<input type="checkbox"/> Confidential Release Date: _____	
<input checked="" type="checkbox"/> Wireline Log Received	
<input checked="" type="checkbox"/> Geologist Report Received	
<input type="checkbox"/> UIC Distribution	
ALT <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	Approved by: <u>Deanna Garbo</u> Date: <u>05/24/2012</u>



1082412

Operator Name: L. D. Drilling, Inc. Lease Name: JOYCE Well #: 3-22  
 Sec. 22 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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name Attached	Top Attached	Datum Attached
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 <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				
DUAL COMPENSATED POROSITY LOG DUAL INDUCTION LOG MICRORESISTIVITY LOG				

CASING RECORD <input type="checkbox"/> New <input checked="" 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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	3602 - 3604'; 3593 - 3595'	3000 gal 20% Acid	
4	3588 - 3590'	2000 gal 28% Acid	

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>3608</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. <u>03/26/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	JOYCE 3-22
Doc ID	1082412

Tops

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

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#CellFI ake
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 <b>2-29-12</b> DISTRICT <b>Pratt</b>		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 <b>L.D. Drilling</b>		LEASE <b>Jayo</b>		WELL NO. <b>3-2</b>		
ADDRESS		COUNTY <b>STAFFORD</b>		STATE <b>Ks</b>		
CITY STATE		SERVICE CREW <b>Orlando, Mitchell, Lawrence</b>				
AUTHORIZED BY		JOB TYPE: <b>CNW - 8 5/8 Surface</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>2-29-12</b> DATE <b>2-29-12</b> AM <b>PM</b> TIME <b>2:00</b>
<b>27283</b>						ARRIVED AT JOB <b>7</b> AM <b>PM</b> <b>3:30</b>
<b>19903-19905</b>	<b>1/2</b>					START OPERATION <b>7</b> AM <b>PM</b>
<b>19831-19863</b>	<b>1/2</b>					FINISH OPERATION <b>7</b> AM <b>PM</b>
						RELEASED <b>7</b> AM <b>PM</b>
						MILES FROM STATION TO WELL <b>45</b>

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. Con bleed	SK	175		3150.00
CP102	Common Cement	SK	175		2800.00
CC102	Celloflake	Lb	88		325.60
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	90		630.00
E113	Bulk Delivery	Ton	743		11880.00
CE300	With Charge O-Stud	ea	1		1000.00
CE340	Blending & Mixing Charge	SK	350		4900.00
CE504	Plus Cement	ea	1		2500.00
SUP3	Service Supervisor	24	1		1750.00

CHEMICAL / ACID DATA:			

SUB TOTAL		<b>8868.62</b>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <b>Steve Orlando</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <b>[Signature]</b>
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>L.D. Dill...</i>	Lease No.	Date <i>2-29-12</i>
Lease <i>Source</i>	Well # <i>3-22</i>	
Field Order # <i>5908</i>	Station <i>Pratt</i>	Casing <i>8 5/8"</i>
Type Job <i>C.Nw - 3 1/2 S...</i>	Depth <i>3311</i>	County <i>STAFFORD</i>
	Formation	Legal Description <i>20-21-11</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>14.00 11.0</i>	RATE	PRESS	ISIP	
Depth <i>3311</i>	Depth	From	To <i>1754</i>	Pre Pad	Max		5 Min.	
Volume <i>61.21</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>10000</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>3211</i>	Packer Depth	From	To	Flush <i>20.3</i>	Gas Volume		Total Load	

Customer Representative <i>J. ...</i>	Station Manager <i>D. ...</i>	Treater <i>Steve ...</i>
Service Units <i>07225 / 15013 / FF45 / 17831 / 15210</i>		
Driver Names <i>D. ...</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:30 PM</i>					<i>On location - Safety Meeting</i>
					<i>Run 3311 3 1/2" 24" ...</i>
					<i>Case to Bit</i>
					<i>Break Circ. Wash</i>
	<i>200</i>		<i>3</i>	<i>5</i>	<i>40' Ann. ...</i>
	<i>200</i>		<i>66</i>	<i>5</i>	<i>Mid 175 ...</i>
	<i>200</i>		<i>37</i>	<i>5</i>	<i>Mid 175 ...</i>
					<i>in. Down</i>
					<i>Post- ...</i>
	<i>0</i>		<i>1</i>	<i>5</i>	<i>Start 112 ...</i>
	<i>200</i>		<i>20.10</i>	<i>5</i>	<i>Case to the Surface</i>
	<i>200</i>		<i>20</i>	<i>4</i>	<i>Plug Down</i>
					<i>Sub Circ. ...</i>
					<i>Case to the Surface</i>
					<i>Completed 10:10 PM</i>



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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.O. 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>AM</u>	<u>730</u>
<u>19903-19905</u>	<u>1</u>					ARRIVED AT JOB	<u>3-6-12</u>	<u>AM</u>	<u>930</u>
<u>19960-19918</u>	<u>1</u>					START OPERATION	<u>3-7-12</u>	<u>AM</u>	<u>130</u>
						FINISH OPERATION	<u>3-7-12</u>	<u>PM</u>	<u>230</u>
						RELEASED	<u>3-7-12</u>	<u>AM</u>	<u>300</u>
						MILES FROM STATION TO WELL	<u>90-mil.</u>		

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

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

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP1002	Common Cement	SK	17.5		\$ 2800.00	
CP103	60/40 Poz	SK	50		\$ 360.00	
CG102	cell FLAKE	lb	44		\$ 162.80	
CC112	Cement Friction	lb	50		\$ 300.00	
CC113	Gypsum	lb	225		\$ 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	Flapper Type Insert Float Valve	EA	1		\$ N/C	
CF1650	Turbolizer 4 1/2" Blue	EA	6		\$ 510.00	
E100	Unit mileage Charge Pick Up	mi.	45		\$ 191.25	
E101	Heavy Equip. mileage	mi.	90		\$ 630.00	
E113	Bulk Delivery chg.	TN	430		\$ 687.60	
CE204	Depth Charge 3501-4000	4hr	1		\$ 216.00	
CE240	Blending & mixing Service chg.	SK	205		\$ 287.00	
CE504	Plus container Utilization chg	Tol	1		\$ 250.00	
S2003	Service Supervisor first 8hrs on M	EA	1		\$ 175.00	
CR151	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 Nichols  
FIELD SERVICE ORDER NO. \_\_\_\_\_ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer: <b>L.O. Drilling Inc</b>	Lease No.:	Date: <b>3-7-12</b>
Lease: <b>Jags</b>	Well #: <b># 3-22</b>	
Field Order #: <b>05248A</b>	Station: <b>Pratt KS</b>	Casing: <b>4 1/2"</b>
Type Job: <b>4 1/2" L.S.</b>	Depth: <b>3698</b>	County: <b>Stafford</b>
	Formation: <b>0 3200'</b>	State: <b>KS</b>
		Legal Description: <b>22-21-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size: <b>4 1/2"</b>	Tubing Size:	Shots/Ft: <b>175 SKs common</b>	Acid:	RATE: <b>@ 14.73</b>	PRESS: <b>14"</b>	ISIP: <b>5 Min.</b>	
Depth: <b>3698</b>	Depth:	From: <b>30 SKs</b>	Pro Pad: <b>60/40 Por</b>	Max:			
Volume: <b>59.6 BBLs</b>	Volume:	To:	Pad:	Min:			
Max Press: <b>1000</b>	Max Press:	From:	Frac: <b>1000 GAL MUD FLUSH</b>	Avg:			
Well Connection: <b>PC</b>	Annulus Vol.:	To:		HHP Used:			Annulus Pressure
Plug Depth: <b>3685</b>	Packer Depth:	From:	Flush: <b>Disp H2O</b>	Gas Volume:			Total Load

Customer Representative: <b>Jim TP</b>	Station Manager: <b>scotty</b>	Treater: <b>Allen</b>
--	--------------------------------	-----------------------

Service Units: <b>28493</b>	<b>19903</b>	<b>19905</b>	<b>19960</b>	<b>19918</b>				
Driver Names: <b>Allen Mike</b>	<b>Math</b>	<b>Dale</b>	<b>Phye</b>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:30 PM					ON LOC. Discuss Safety, Setup, Plans
10:00					Lay down Kelly. - Rig up to Run casing
					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 @ 3900' set 3698' c
2:00	200'		24	5	Pump 1000gal mud flush
			5	5	Pump 5 BBLs 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.
	500'			5	caught Lift. 37 BBL out
2:30	1000'		59 1/2	2	Plug down
	0"				Release P.S.J. - OK.
			7		Plug Rat Hole w/ 30 SKs 60/40 Por
					wash up + 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: joyce3-22DST1

TIME ON: 13:22:00  
TIME OFF: 18:14:00

Company LD Drilling Inc Lease & Well No. Joyce #3-22  
Contractor Petromark Rig #2 Charge to LD Drilling Inc.  
Elevation 1848 KB Formation Lansing B-G Effective Pay \_\_\_\_\_ Ft. Ticket No. S0103  
Date 3-3-12 Sec. 22 Twp. \_\_\_\_\_ 21 S Range \_\_\_\_\_ 12 W County Stafford State KANSAS  
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3290 ft. to 3365 ft. Total Depth 3365 ft.  
Packer Depth 3285 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3290 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3278 ft. Recorder Number 30035 Cap. 10000 P.S.I.  
Bottom Recorder Depth (Outside) 3362 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 3145 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 75 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- Died in 5 min NOBB  
2nd Open: \_\_\_\_\_

Recovered 473 ft. of DM 100% DM  
Recovered 473 ft. of TOTAL FLUID  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks: Hole in drill pipe ---- Miss Run!  
TOOL SAMPLE: 100% DM

Time Set Packer(s) 3:13 PM A.M. P.M. Time Started Off Bottom 3:33 PM A.M. P.M. Maximum Temperature 1577

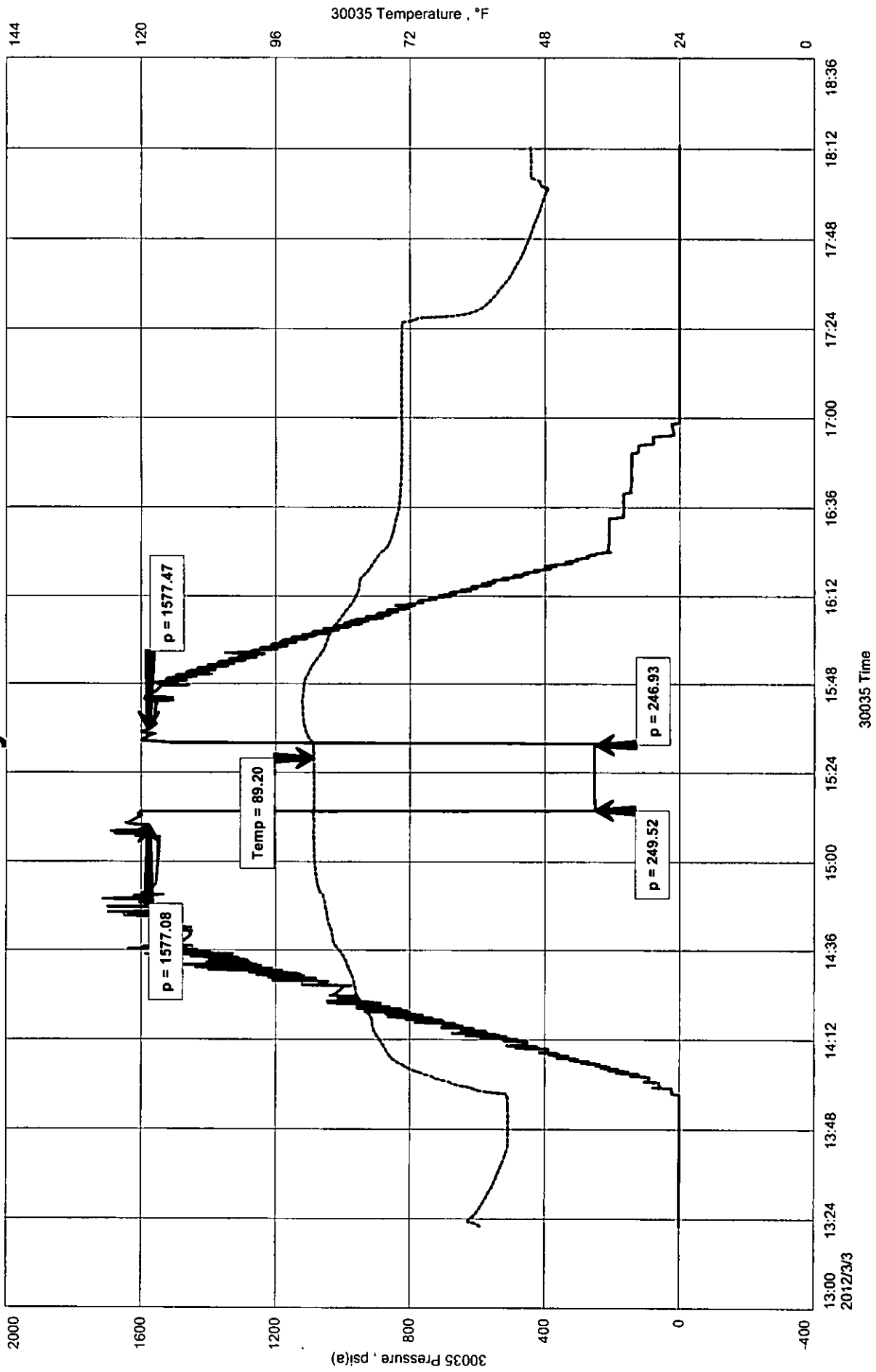
Initial Hydrostatic Pressure..... (A) 1577 P.S.I.  
Initial Flow Period..... Minutes 20 (B) 250 P.S.I. to (C) 247 P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) 1577 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	LD Davis	Job Number	S0103
Well Name	Joyce #3-22	Representative	Jacob McCallie
Unique Well ID	DST #1 Lansing B-G 3290-3365'	Well Operator	LD Drilling Inc
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/03/03
Well License Number		Prepared By	Jacob McCallie
Field	Saundra		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 Lansing B-G 3290-3365'	Start Test Time	13:22:00
Well Fluid Type	01 Oil	Final Test Time	18:14:00
Start Test Date	2012/03/03		
Final Test Date	2012/03/03		
Gauge Name	30035		
Gauge Serial Number			

### 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: 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-FH 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
<b>TOOL SAMPLE: 100% DM</b>	Total

Time Set Packer(s) 8:30 AM A.M. P.M. Time Started Off Bottom 9:30 AM A.M. P.M. Maximum Temperature 96

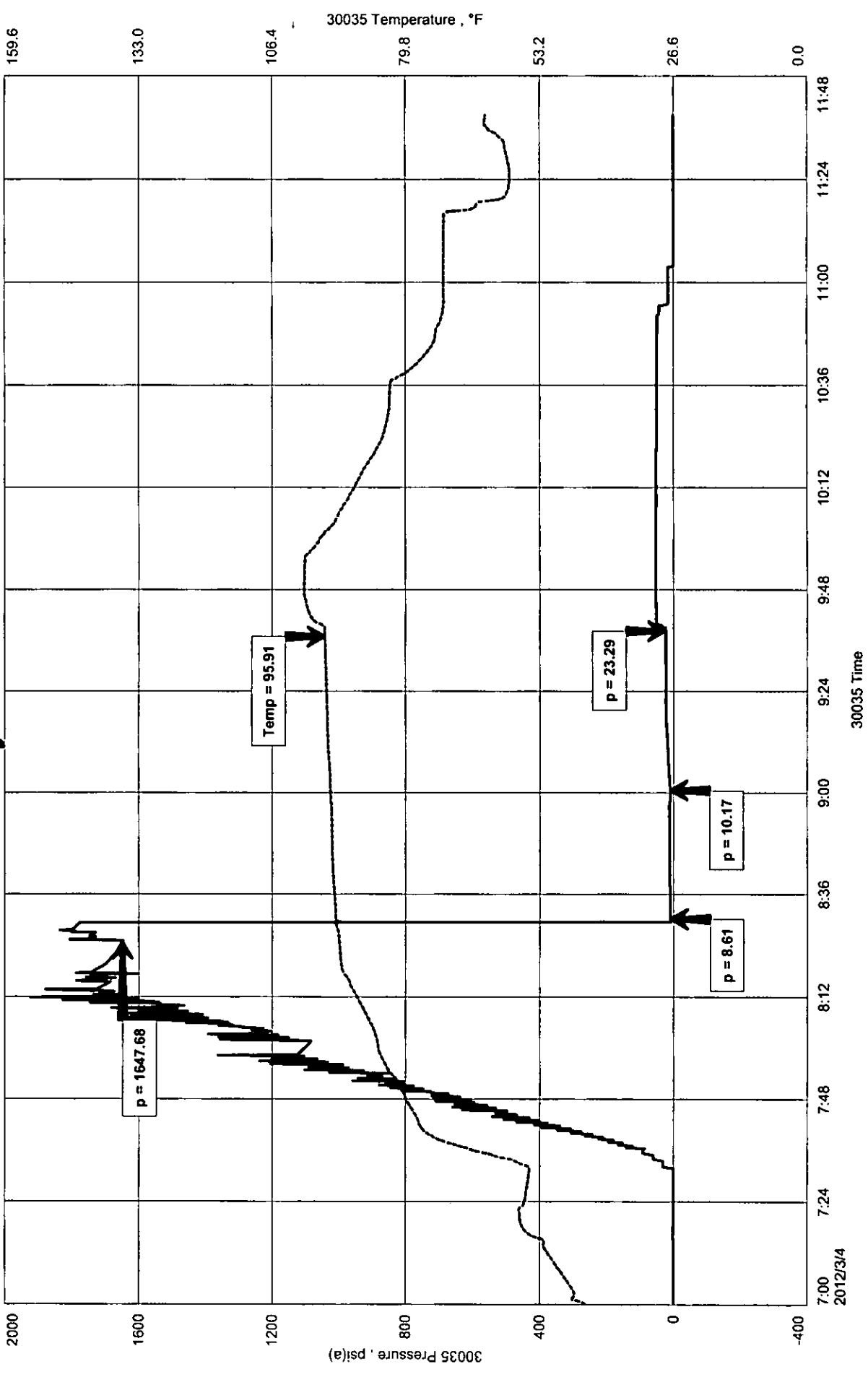
Initial Hydrostatic Pressure..... (A) 1648 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 10 P.S.I.  
 Initial Closed In Period..... Minutes 30 (D) 23 P.S.I.  
 Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
 Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
 Final Hydrostatic Pressure..... (H) 1648 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

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



# 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: 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 in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 77 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: 1/2" 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
<b>TOOL SAMPLE: 92% OIL 8% MUD</b>	Total

Time Set Packer(s) 10:08 PM 3-4-12 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 1:08 AM 3-5-12 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 99

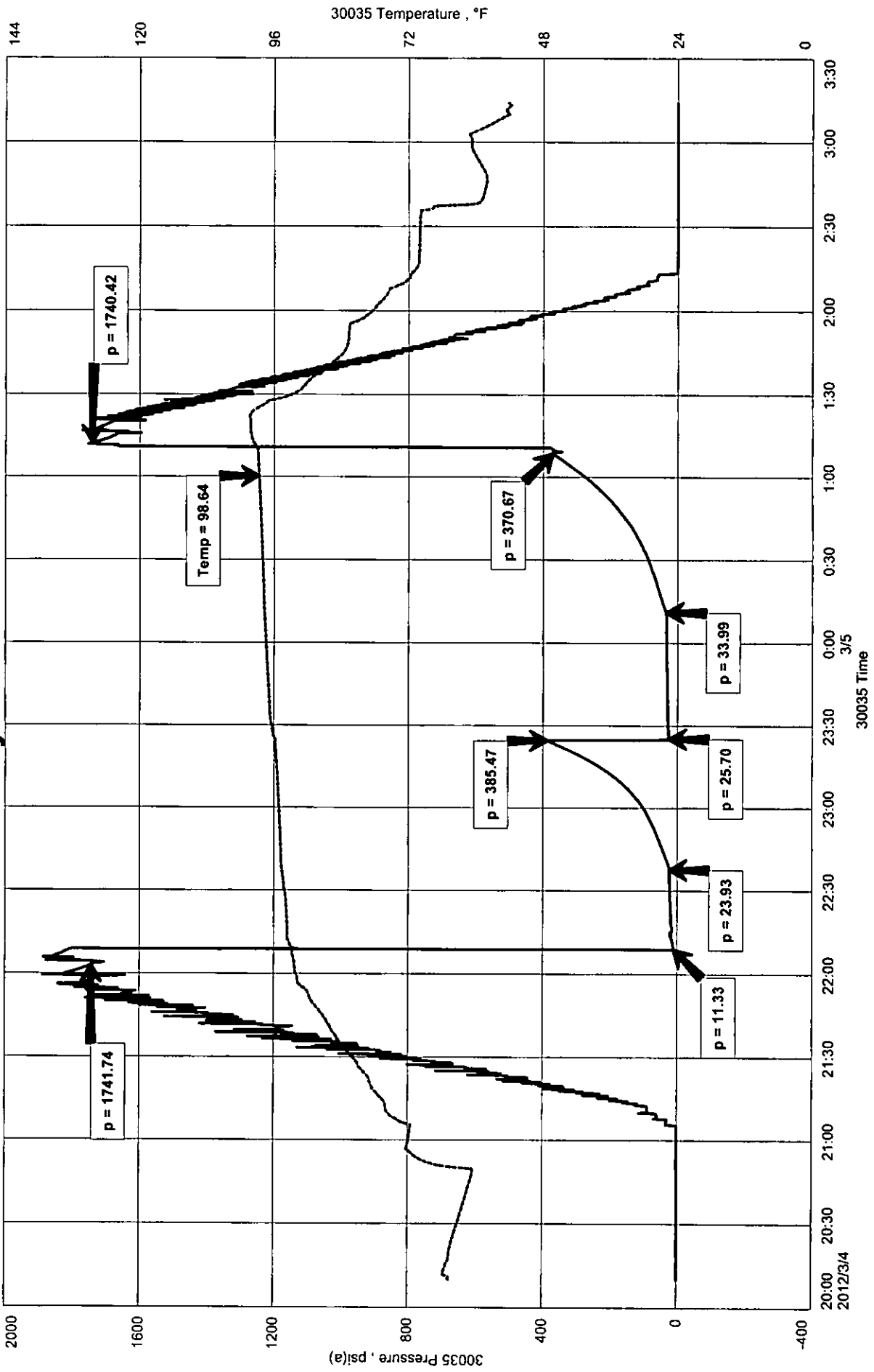
Initial Hydrostatic Pressure..... (A) 1742 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 24 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 385 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 26 P.S.I. to (F) 34 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 371 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1740 P.S.I.

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

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

# 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	Sandra		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	20:10:00
Formation	DST #3 Arbuckle 3530-3607'	Final Test Time	03:15:00
Well Fluid Type	01 Oil		
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: 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 Spcked Mud 1% OIL 99% MUD  
 Recovered 10 ft. of TOTAL FLUID  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>Flushed tool on second open.</u>	Insurance
<u>TOOL SAMPLE: 3% OIL 97% MUD</u>	Total

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

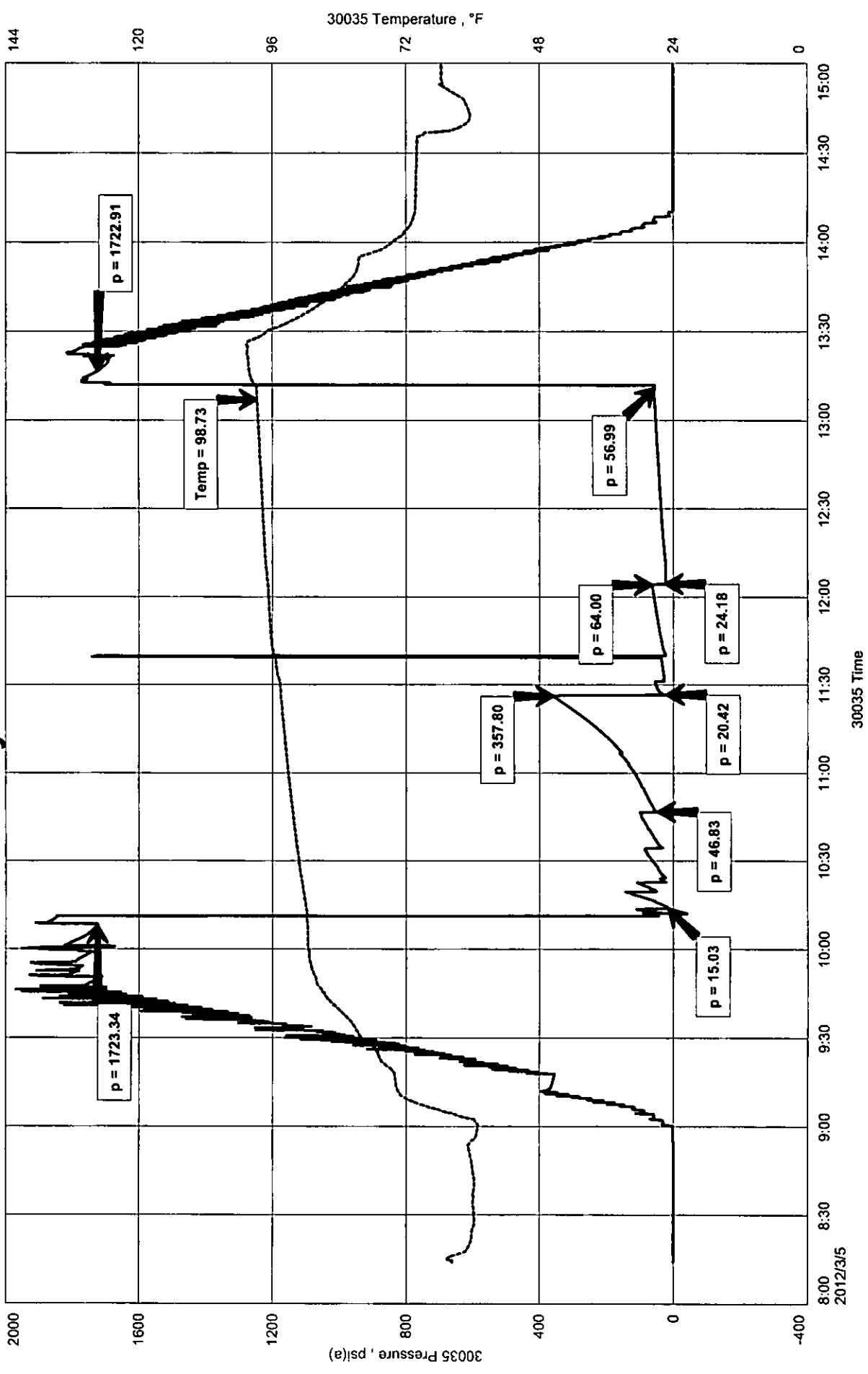
Initial Hydrostatic Pressure..... (A) 1723 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 47 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 358 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 20 P.S.I. to (F) 64 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 60 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1723 P.S.I.

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Joyce #3-22  
 Formation: DST #4 Arbuckle 3607-3620'  
 Pool: Wildcat  
 Job Number: S0106

LD Drilling INC  
 DST #4 Arbuckle 3607-3620'  
 Start Test Date: 2012/03/05  
 Final Test Date: 2012/03/05

# Joyce #3-22



# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling INC

Contact	LD Davis	Job Number	S0106
Well Name	Joyce #3-22	Representative	Jacob McCallie
Unique Well ID	DST #4 Arbuckle 3607-3620'	Well Operator	LD Drilling INC
Surface Location	SEC 22-21S-12W Stafford County	Report Date	2012/03/05
Well License Number		Prepared By	Jacob McCallie
Field	Saundra		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	08:14:00
Formation	DST #4 Arbuckle 3607-3620'	Final Test Time	15:00:00
Well Fluid Type	01 Oil		
Start Test Date	2012/03/05		
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: 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 <u>Chlorides: 12,000 ppm</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
<b>TOOL SAMPLE: 40% OIL 16% WTR 44% MUD</b>	Total

Time Set Packer(s) 2:30 AM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 5:30AM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 97

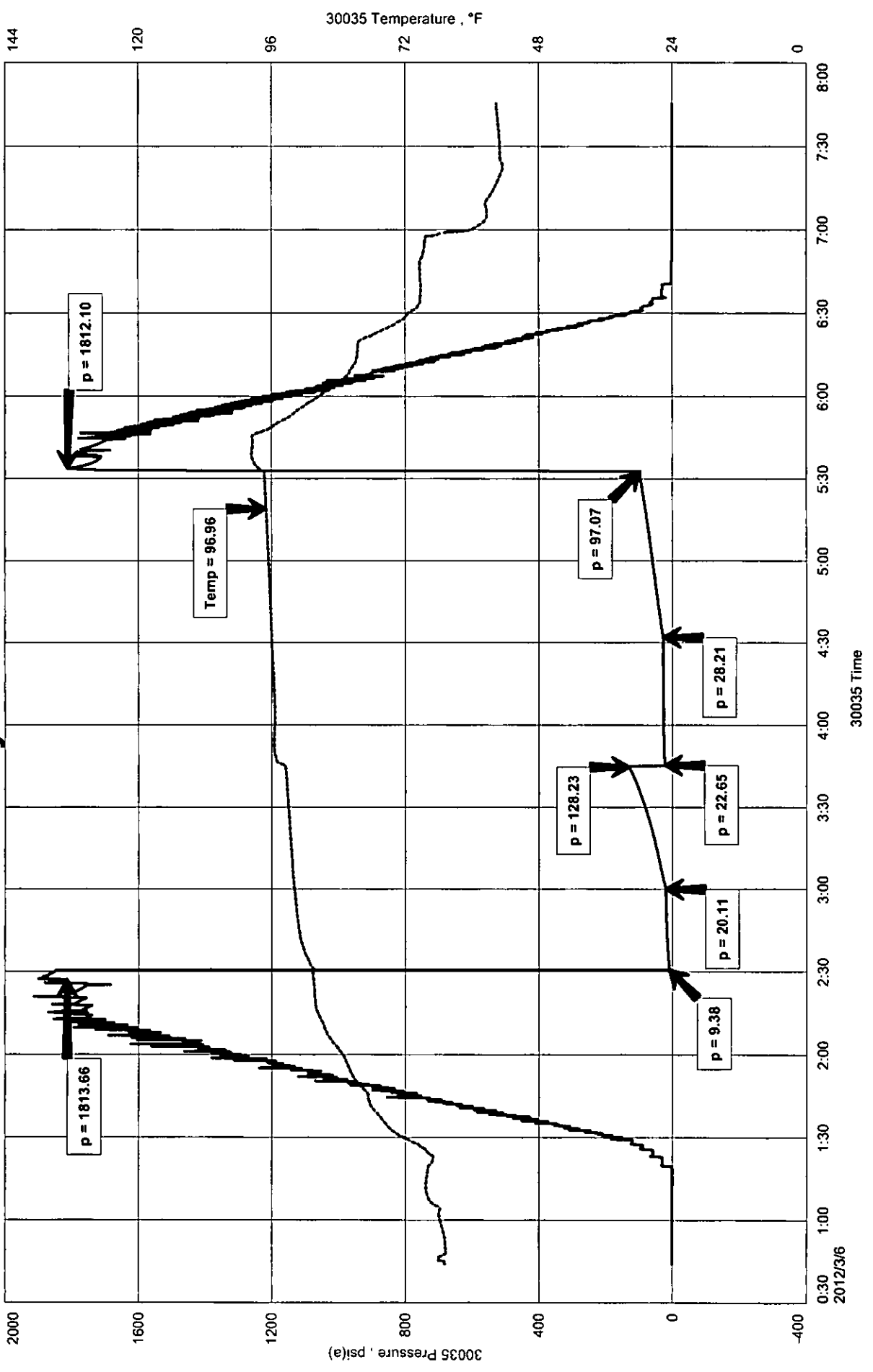
Initial Hydrostatic Pressure..... (A) 1814 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 20 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 128 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 23 P.S.I. to (F) 28 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 97 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1812 P.S.I.

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

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

# 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	Sandra		
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, its 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
<b>TOOL SAMPLE: 100% DM</b>	Total

Time Set Packer(s) 8:30 AM A.M. / P.M. Time Started Off Bottom 9:30 AM A.M. / P.M. Maximum Temperature 96

Initial Hydrostatic Pressure..... (A) 1648 P.S.I.

Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 10 P.S.I.

Initial Closed In Period..... Minutes 30 (D) 23 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) 1648 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

Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8

Chlorides 5,000 P.P.M. Drill Pipe Length 3385 ft. I.D. 3 1/2

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> <sup>A.M.</sup> / <sub>P.M.</sub>	Time Started Off Bottom <u>1:08 AM 3-5-12</u> <sup>A.M.</sup> / <sub>P.M.</sub>
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 <u>LD Drilling Inc</u>	Lease & Well No. <u>Joyce #3-22</u>
Contractor <u>Petromark Rig #2</u>	Charge to <u>LD Drilling Inc.</u>
Elevation <u>1848 KB</u> Formation <u>Arbuckle</u>	Effective Pay _____ Ft. Ticket No. <u>S0106</u>
Date <u>3-5-12</u> Sec. <u>22</u> Twp. <u>21 S</u> Range <u>12 W</u> County <u>Stafford</u> State <u>KANSAS</u>	
Test Approved By <u>Josh Austin</u>	Diamond Representative <u>Jacob McCallie</u>

Formation Test No. <u>4</u> Interval Tested from <u>3607</u> ft. to <u>3620</u> ft. Total Depth <u>3620</u> ft.
Packer Depth <u>3602</u> ft. Size <u>6 3/4</u> in. Packer depth _____ ft. Size <u>6 3/4</u> in.
Packer Depth <u>3607</u> ft. Size <u>6 3/4</u> in. Packer depth _____ ft. Size <u>6 3/4</u> in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) <u>3595</u> ft. Recorder Number <u>30035</u> Cap. <u>10000</u> P.S.I.
Bottom Recorder Depth (Outside) <u>3617</u> ft. Recorder Number <u>3851</u> Cap. <u>5700</u> P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

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

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

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

Price Job
Other Charges
Insurance
Remarks: <u>Flushed tool on second open.</u>

TOOL SAMPLE: 3% OIL 97% MUD

Total

Time Set Packer(s) 10:10 AM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 1:10 PM <sup>A.M.</sup>/<sub>P.M.</sub> 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 <u>Chlorides: 12,000 ppm</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance

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

Total

Initial Hydrostatic Pressure.....	(A)	<u>1814</u> P.S.I.
Initial Flow Period..... Minutes	<u>30</u> (B)	<u>9</u> P.S.I. to (C) <u>20</u> P.S.I.
Initial Closed In Period..... Minutes	<u>45</u> (D)	<u>128</u> P.S.I.
Final Flow Period..... Minutes	<u>45</u> (E)	<u>23</u> P.S.I. to (F) <u>28</u> P.S.I.
Final Closed In Period..... Minutes	<u>60</u> (G)	<u>97</u> P.S.I.
Final Hydrostatic Pressure.....	(H)	<u>1812</u> P.S.I.

### ROCK TYPES

	Cht		Dolprim		shale, gm		Carbon Sh		Ss
	Congl		Lmst fw7>		shale, gry		shale, red		

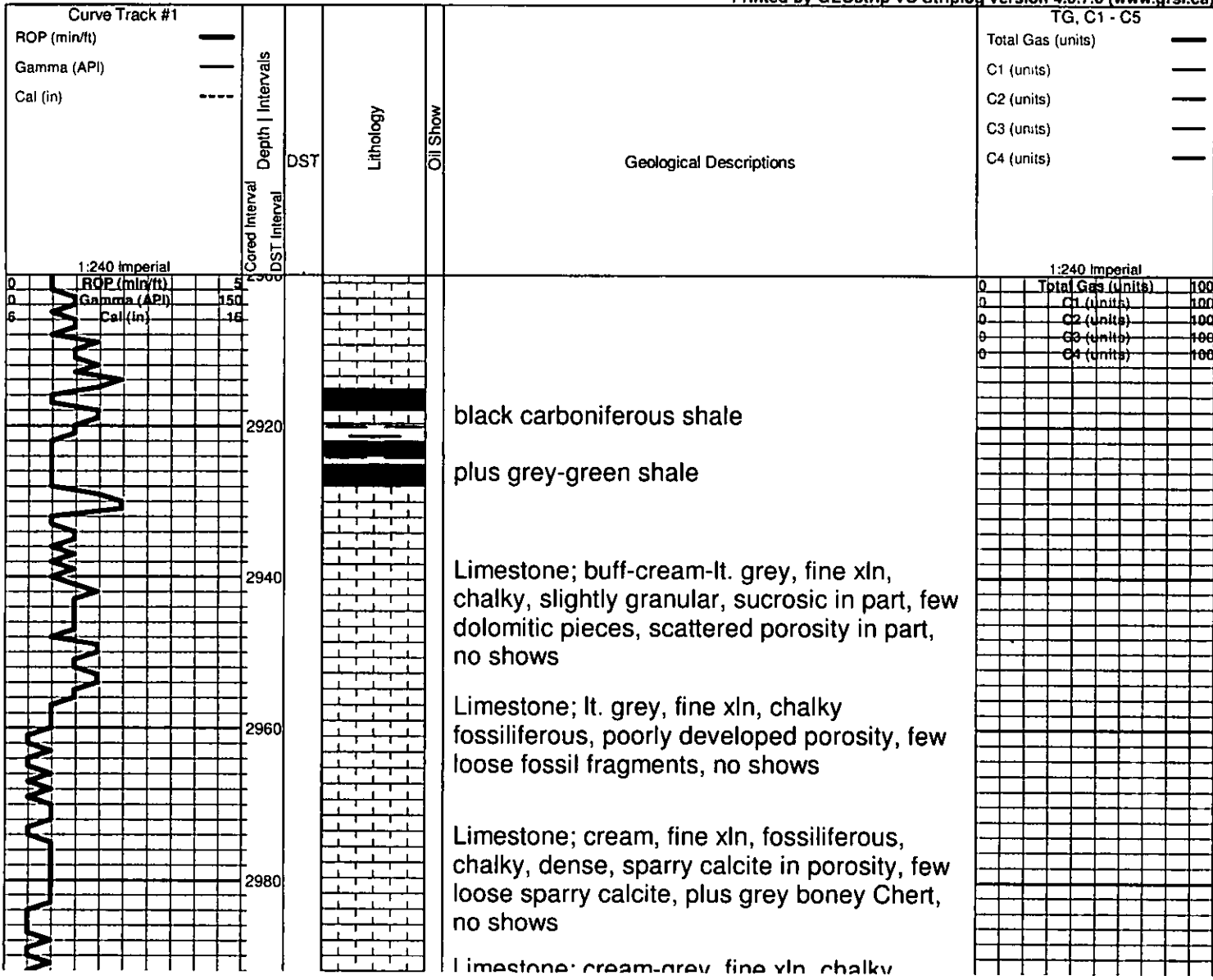
### ACCESSORIES

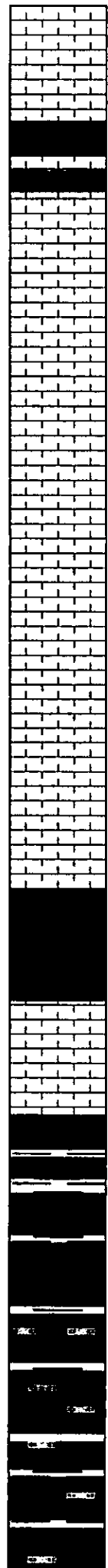
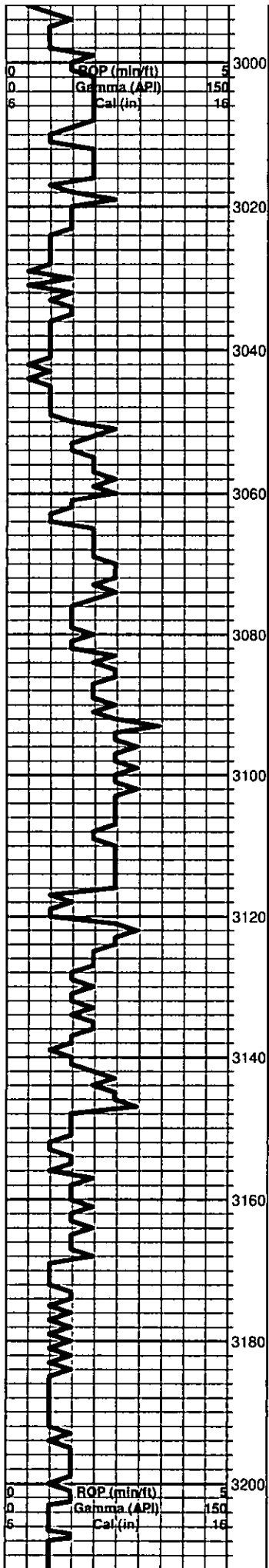
	STRINGER
	Siltstone

### OTHER SYMBOLS

	DST Int
	DST alt
	Core
	tail pipe

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





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

black carboniferous shale

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

Limestone; as above granular in part

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

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

Limestone; as above plus grey boney Chert

**HEEBNER 3116 (-1268)**  
black carboniferous shale

**TORONTO 3134 (-1286)**  
Limestone; cream-white, fine xln, chunky, 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

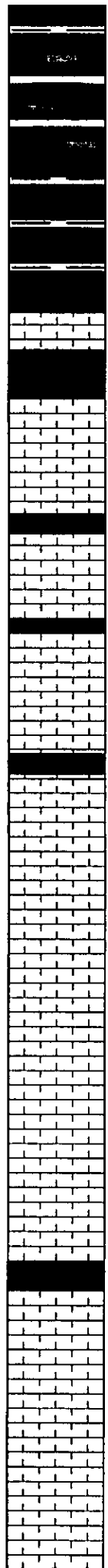
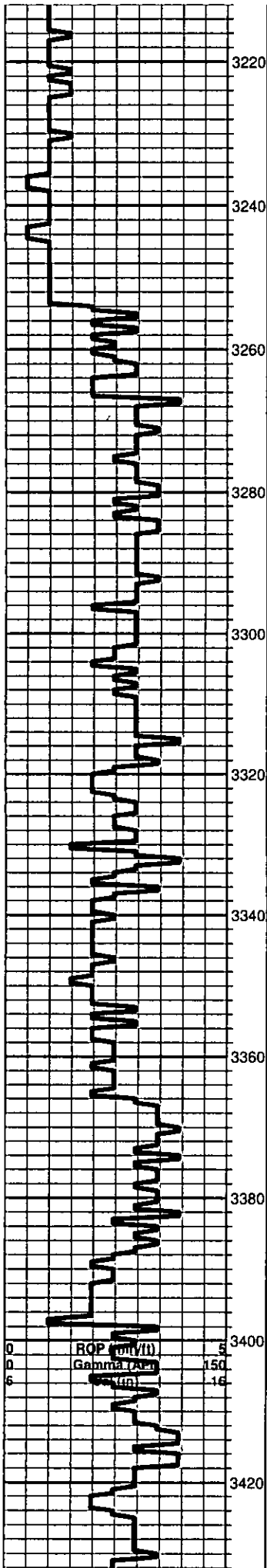
Shale; grey-greyish green, soft, micaceous, silty in part

Shale as above

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

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



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

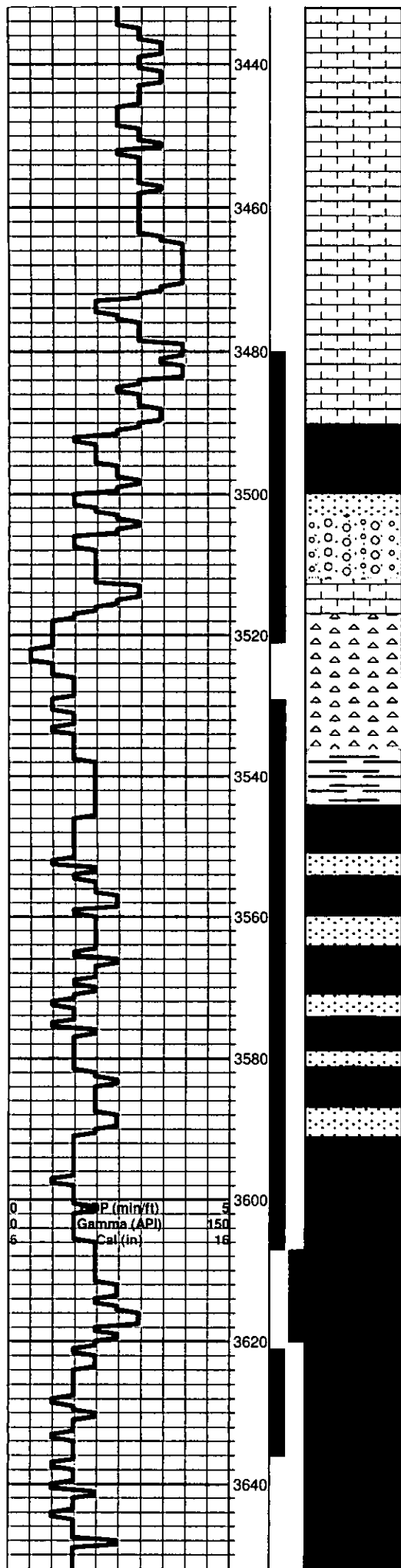
Limestone as above

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



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, waxey 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; dled 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

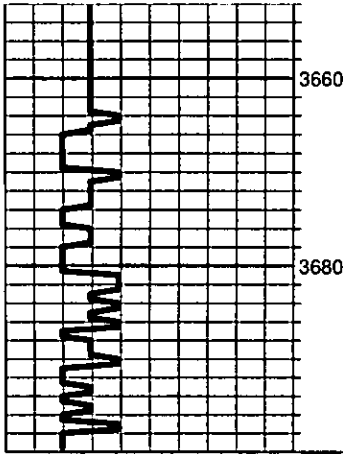
Recovery;  
 126' GIP  
 8' Clean Oil  
 54' Oily Mud  
 (18%oil 82% mud)

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





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%w)

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

