



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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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: \_\_\_\_\_



1082494

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 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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	V M D 1-3
Doc ID	1082494

Tops

Name	Top	Datum
HEEBNER	3305	-1363
TORONTO	3329	-1387
DOUGLAS	3344	-1402
BROWN LIME	3424	-1482
LANSING	3434	-1492
BASE KANSAS CITY	3658	-1716
VIOLA	3710	-1768
SIMPSON	3748	-1806
ARBUCKLE	3798	-1856

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	V M D 1-3
Doc ID	1082494

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	12.25	8.625	24	878	A-CONN	175	
SURFACE CONT	12.25	8.625	24	878	COMMON	175	
PRODUCTION	7.875	5.5	14	3896	COMMON	150	2%Gel,5% Cal-Set
RATHOLE	7.875	5.5	14	3896	60/40 POZMIX	30	



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 05977 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 3-9-2012	DISTRICT: Pratt, Ks.	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: LD DRILLING, INC.	LEASE: VMD	WELL NO. 1-3							
ADDRESS:	COUNTY: STAFFORD	STATE: Ks.							
CITY:	STATE:	SERVICE CREW: LESLEY, MARQUEZ, BOWER							
AUTHORIZED BY:	JOB TYPE: CNW-8 5/8" S.P.								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
31586	1						3-9-12	AM	11:00
19889-19843	1							PM	1:30
19831-19862	1							AM	4:00
								AM	5:00
								AM	5:30
								PM	5:30
						MILES FROM STATION TO WELL	45		

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

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

SIGNED: *Jim Michle*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP 101	A-CON BLEND	SK	175		3,150.00	
CP 100C	COMMON CEMENT	SK	175		2,800.00	
CC 102	CELL-FLAKE	lb	88		325.60	
CC 109	CALCIUM CHLORIDE	lb	825		816.25	
CE 105	TOP RUBBER CMT. PLUG, 8 5/8"	EA	1		225.00	
CC 131	SUGAR	lb	100		300.00	
F 100	PICKUP MILEAGE	MI	45		191.25	
E 101	HEAVY EQUIPMENT MILEAGE	MI	90		630.00	
E 113	BOX DELIVERY CHARGE	TM	743		1,188.00	
CE 201	DEPTH CHARGE, 500'-1000'	HR	1-4		1,200.00	
CE 240	BLENDING SERVICE CHARGE	SK	350		490.00	
CE 504	PLUG CONTAINER CHARGE	JOB	1		250.00	
S 003	SERVICE SUPERVISOR	EA	1		175.00	
					SUB TOTAL	9,235.99

CHEMICAL / ACID DATA:			

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

TOTAL

SERVICE REPRESENTATIVE

*Lesley Marquez*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

*Jim Michle*

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>LD DRILLING, INC.</i>	Lease No.	Date <i>3-9-2012</i>
Lease <i>VMD</i>	Well # <i>1-3</i>	
Field Order #	Station <i>Pratt, Ks.</i>	Casing <i>8 5/8"</i>
Type Job <i>CNW-8 5/8" S.P.</i>	Depth	County <i>STAFFORD</i>
	Formation <i>TD-878'</i>	State <i>Ks.</i>
		Legal Description <i>3-22-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8" x 24"</i>			<i>CNTT -</i>	<i>175SK A-CON</i>				5 Min.
Depth <i>37'</i>	Depth	From	To	Pre Pad <i>@ 2.47 CUFT</i>	Max			10 Min.
Volume <i>55.86 BBL</i>	Volume	From	To	Pad <i>175SKS COMMON</i>	Min			15 Min.
Max. Press <i>300</i>	Max Press	From	To	Frac <i>@ 1.20 CUFT</i>	Avg			
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <i>358'</i>	Packer Depth	From	To	Flush <i>54.5 BBL</i>	Gas Volume			Total Load

Customer Representative *Jim - PETROMARK* Station Manager *D. SCOTT* Treater *K. LESLEY*

Service Units	<i>37586</i>	<i>19839</i>	<i>19843</i>	<i>19831</i>	<i>19862</i>				
Driver Names	<i>LESLEY</i>	<i>MARQUEZ</i>		<i>BOWER</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:30 PM</i>					<i>ON LOCATION - SAFETY MEETING</i>
<i>1:45 PM</i>					<i>SPOT TRUCKS W/DOZER ON LOC.</i>
<i>5</i>					<i>RUN 22 JTS. 8 5/8" x 24" CSG.</i>
<i>3:40 PM</i>					<i>CSG ON BOTTOM</i>
<i>4:00 PM</i>					<i>HOOK UP TO CSG / BREAK CIRC. W/RIG</i>
<i>4:23 PM</i>	<i>300</i>		<i>5</i>	<i>6</i>	<i>H<sup>2</sup>O AHEAD</i>
<i>4:24 PM</i>	<i>150</i>		<i>77</i>	<i>6</i>	<i>MIX 175SKS. A-CON @ 12 PPG</i>
<i>4:37 PM</i>	<i>100</i>		<i>37</i>	<i>6</i>	<i>MIX 175SKS COMMON @ 15.6 PPG</i>
<i>4:43 PM</i>					<i>SHUT DOWN - RELEASE PLUG</i>
<i>4:46 PM</i>	<i>0</i>		<i>0</i>	<i>4</i>	<i>START DISPLACEMENT</i>
<i>4:58 PM</i>	<i>250</i>		<i>50</i>	<i>3</i>	<i>SLOW RATE</i>
<i>5:00 PM</i>	<i>300</i>		<i>54.5</i>	<i>3</i>	<i>PLUG @ DESIRED DEPTH</i>
					<i>CIRC. THRU JOB</i>
					<i>CIRC. 15 BBL TO PIT</i>
					<i>JOB COMPLETE,</i>
					<i>THANKS -</i>
					<i>KEVEN LESLEY</i>





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PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 05606 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>3-15-12</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>VMD 1-3</u>		WELL NO.:		
ADDRESS		COUNTY <u>Stafford</u> <u>3-22-14</u> STATE <u>Ks.</u>				
CITY STATE		SERVICE CREW <u>Allen, Joe, Mike McGraw</u>				
AUTHORIZED BY		JOB TYPE: <u>5 1/2" L.S.</u> <u>CNW</u>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>3-15-12</u> DATE <u>3-15-12</u> TIME <u>730</u>
<u>28443 P.U.</u>	<u>2</u>					ARRIVED AT JOB <u>3-15-12</u> <u>AM</u> <u>1700</u>
<u>19595-20920</u>	<u>2</u>					START OPERATION <u>3-15-12</u> <u>AM</u> <u>100</u>
<u>19826-19860</u>	<u>2</u>					FINISH OPERATION <u>3-15-12</u> <u>AM</u> <u>300</u>
						RELEASED <u>3-15-12</u> <u>AM</u> <u>330</u>
						MILES FROM STATION TO WELL

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
CP100C	Common cement	SK	150		\$ 2400.00
CP103	60/40 Poz	SK	30		\$ 380.00
CC102	cell Floke	lb	38		\$ 140.00
CC112	cement Friction Reducer	lb-437			\$ 258.00
CC129	F/A-322	lb	43		\$ 322.50
CC200	Cement Gel	lb	282		\$ 70.50
CF103	Top Rubber cement Plug 5 1/2"	CA	1		\$ 105.00
CF251	Guide Shoe Res 5 1/2 Blue	CA	1		\$ 280.00
CF1451	Flapper Type Insert	EA	1		\$ 215.00
CF1651	Turbolizer	EA	6		\$ 660.00
CC151	mud Flush	gal	1000		\$ 860.00
E100	unit mileage charge PickUp	hrs	4.5		\$ 191.25
E1131	Bulk Delivery Chg.	Ton	376		\$ 601.20
CE204	Depth Charge 3001-4000'	4-hr	1		\$ 2160.00
CE240	Blending & mixing service chg.	SK	180		\$ 252.00
CE504	Plug container Utilization chg.	Job	1		\$ 250.00
S003	Service Supervisor first 8hrs	EA	1		\$ 175.00
E101	Heavy Equip mileage	mi	90		\$ 630.00
CC113	Gypsum	lb	706		\$ 628.75
CC131	SUGAR	lb	100		\$ 200.00
SUB TOTAL					\$ 4200.00
CHEMICAL / ACID DATA:					
SERVICE & EQUIPMENT					%TAX ON \$
MATERIALS					%TAX ON \$
TOTAL					\$ 8397.54

SERVICE REPRESENTATIVE Allen F. Witt THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Scott A. Land  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>L.D. Drilling Inc</b>	Lease No.	Date <b>3-15-12</b>
Lease <b>VMO</b>	Well # <b>1-3</b>	
Field Order # <b>05606A</b>	Station <b>Pratt KS</b>	Casing " <b>5/8</b>
Type Job <b>5/8 L.S.</b>	Depth <b>3896'</b>	County <b>Stafford</b>
	Formation <b>cnw</b>	State <b>KS</b>
		Legal Description <b>3-22-14</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size "	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<b>5/8</b>				<b>150Ks Common @ 14.9'</b>			5 Min.
Depth <b>3896</b>	Depth	From	To	Pre Pad	Max		10 Min.
Volume <b>94.69</b>	Volume	From	To	Pad	Min		15 Min.
Max Press <b>1000</b>	Max Press	From	To	<b>24 BBLs mud flush</b>	Avg	<b>Plug Rot Hole</b>	Annulus Pressure
Well Connection <b>P.C.</b>	Annulus Vol.	From	To	<b>30s Ks 60/40 Por</b>	HHP Used		Total Load
Plug Depth <b>881</b>	Packer Depth	From	To	Flush <b>Disp N2O</b>	Gas Volume		

Customer Representative <b>Jim TP</b>	Station Manager <b>Scotty</b>	Treater <b>Allen</b>
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Service Units	<b>28443</b>	<b>19959</b>	<b>20920</b>	<b>19826</b>	<b>19860</b>				
Driver Names	<b>Allen</b>	<b>Joe</b>	<b>Melton</b>	<b>Mike</b>	<b>McGraw</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>12:00 PM</b>					<b>ON Loc. Discuss Safety, Setup, Plans.</b>
					<b>Running casing. 14"</b>
					<b>Cent. 1-3-5-7-9-11</b>
					<b>Shoe It. 14.40' w/Reg. Shoe - Fillup</b>
					<b>in collar.</b>
<b>1:00</b>					<b>Tag Bottom. Set @ 3896' cir w/Rig</b>
	<b>200#</b>		<b>25</b>	<b>5</b>	<b>Pump 24 BBL mud flush</b>
			<b>5</b>	<b>5</b>	<b>Pump 5 BBL N2O</b>
			<b>38</b>	<b>5</b>	<b>Pump 150Ks common @ 15'</b>
					<b>wash out pump + line</b>
					<b>5 1/2 Drop Top Rubber Plug. Start Disp</b>
	<b>500#</b>			<b>4</b>	<b>caught lift.</b>
<b>2:45</b>	<b>1000#</b>		<b>94.6</b>	<b>3</b>	<b>Plug down</b>
	<b>0#</b>				<b>Release PSI @</b>
			<b>7</b>		<b>Plug R.N. w/30s Ks 60/40 Por</b>
					<b>washup Equip.</b>
					<b>Rackup Equip.</b>
<b>3:30</b>					<b>Job complete.</b>
					<b>Thanks Allen Joe McGraw</b>





**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.

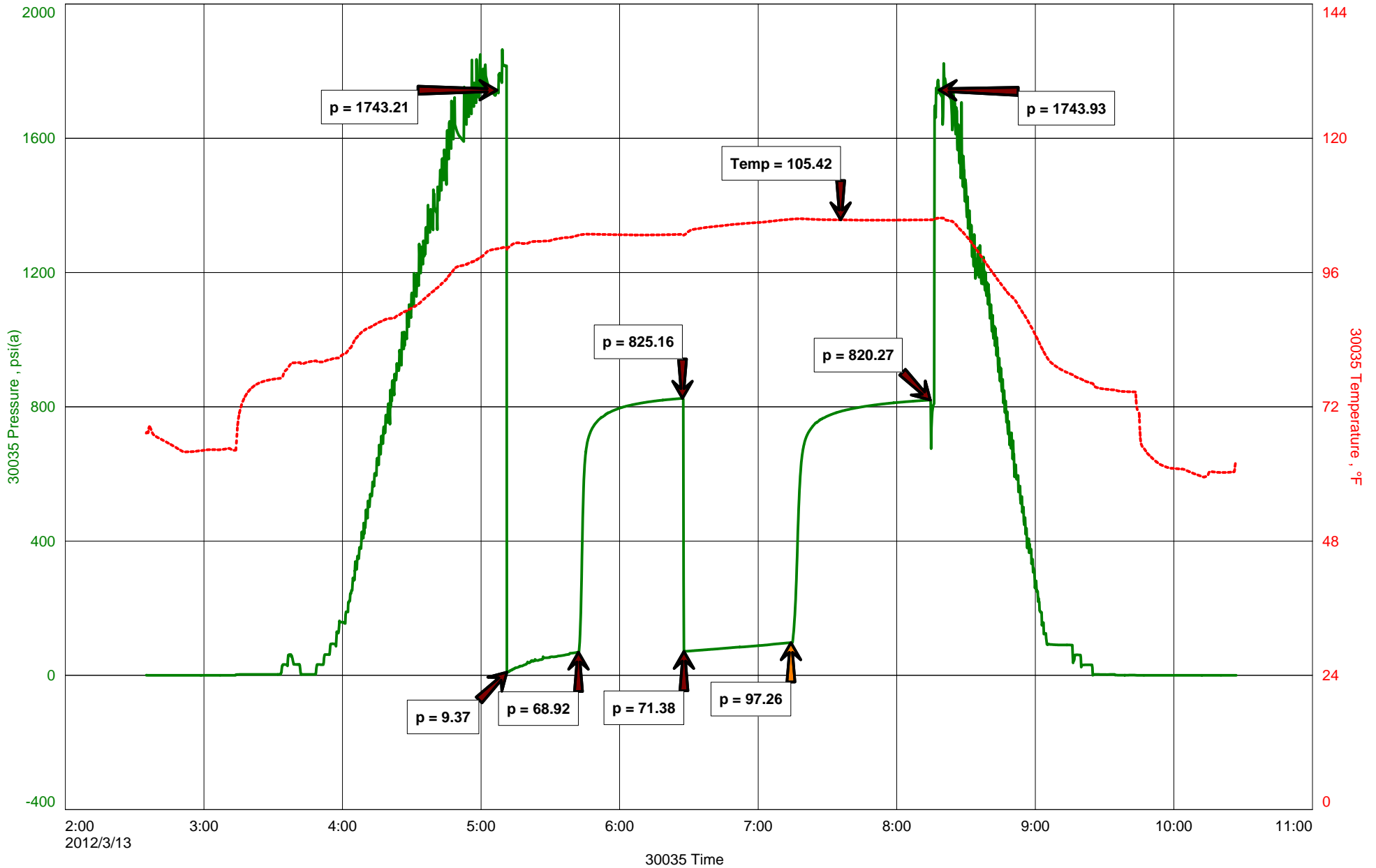
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged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



LD Drilling Inc  
DST #1 Lansing J-K 3585-3635'  
Start Test Date: 2012/03/13  
Final Test Date: 2012/03/13

VMD #1-3  
Formation: DST #1 Lansing J-K 3585-3635'  
Pool: Wildcat  
Job Number: S0110

# VMD #1-3



# Diamond Testing

## General information Report

### General Information

**Company Name** LD Drilling Inc

<b>Contact</b>	LD Davis	<b>Job Number</b>	S0110
<b>Well Name</b>	VMD #1-3	<b>Representative</b>	Jacob McCallie
<b>Unique Well ID</b>	DST #1 Lansing J-K 3585-3635'	<b>Well Operator</b>	LD Drilling Inc
<b>Surface Location</b>	SEC 3-22S-14W Stafford County	<b>Report Date</b>	2012/03/13
<b>Well License Number</b>		<b>Prepared By</b>	Jacob McCallie
<b>Field</b>	Wildcat		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	Drill Stem Test		
<b>Formation</b>	DST #1 Lansing J-K 3585-3635'		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	02:35:00
		<b>Final Test Time</b>	10:27:00
<b>Start Test Date</b>	2012/03/13		
<b>Final Test Date</b>	2012/03/13		
<b>Gauge Name</b>	30035		
<b>Gauge Serial Number</b>			

### Test Results

#### RECOVERED:

74'	MUD / WTR	51% WTR 49% MUD
126'	Muddy WTR	85% 15% MUD
200'	TOTAL FLUID	

Ph: 8

RW: .32 @ 62 degrees F

Chlorides: 34,000 ppm

#### TOOL SAMPLE:

5% OIL 55% WTR 40% 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 _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

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

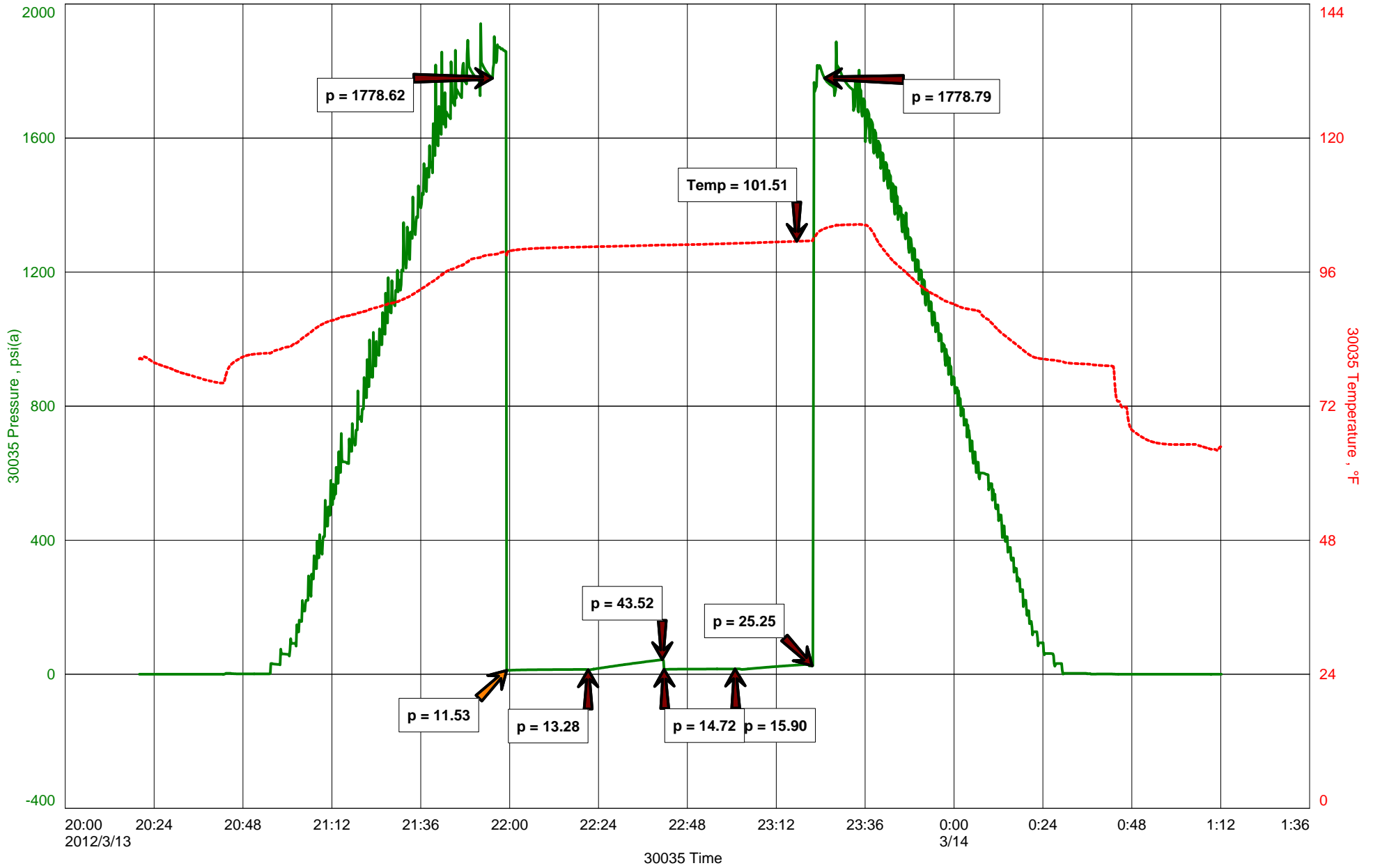
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LD Drilling INC.  
DST #2 Viola 3658-3751'  
Start Test Date: 2012/03/13  
Final Test Date: 2012/03/14

VMD #1-3  
Formation: DST #2 Viola 3658-3751'  
Pool: Wildcat  
Job Number: S0111

# VMD #1-3



# Diamond Testing

## General information Report

### General Information

**Company Name** LD Drilling INC.

<b>Contact</b>	LD Davis	<b>Job Number</b>	S0111
<b>Well Name</b>	VMD #1-3	<b>Representative</b>	Jacob McCallie
<b>Unique Well ID</b>	DST #2 Viola 3658-3751'	<b>Well Operator</b>	LD Drilling INC.
<b>Surface Location</b>	SEC 3-22S-12W Stafford County	<b>Report Date</b>	2012/03/14
<b>Well License Number</b>		<b>Prepared By</b>	Jacob McCallie
<b>Field</b>	Wildcat		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	Drill Stem Test		
<b>Formation</b>	DST #2 Viola 3658-3751'		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	20:20:00
		<b>Final Test Time</b>	01:13:00
<b>Start Test Date</b>	2012/03/13		
<b>Final Test Date</b>	2012/03/14		
<b>Gauge Name</b>	30035		
<b>Gauge Serial Number</b>			

### Test Results

**RECOVERED:**

8'	Drilling Mud	100% MUD
8'	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.

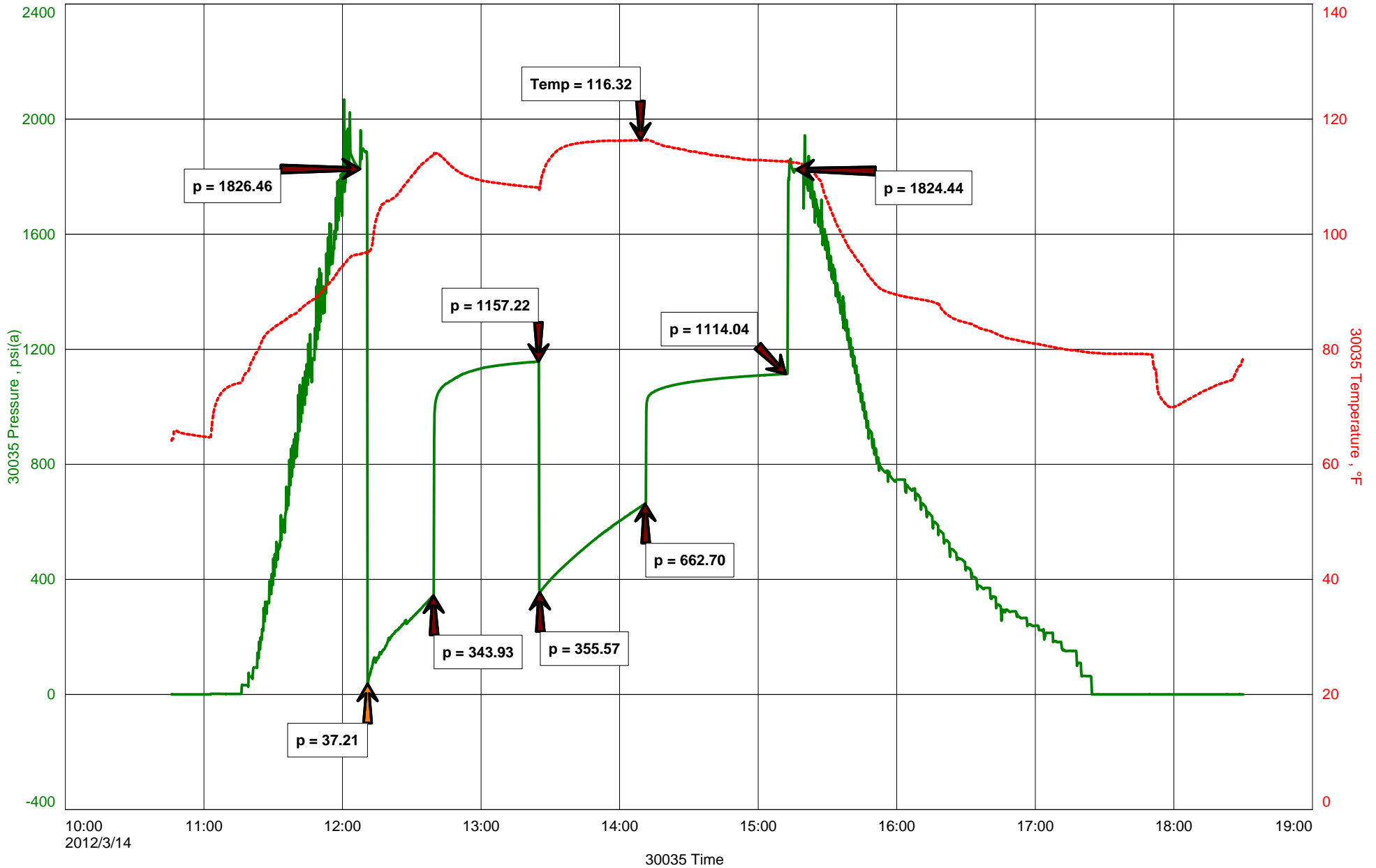
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LD Drilling Inc  
DST #3 Arbuckle 3742-3805'  
Start Test Date: 2012/03/14  
Final Test Date: 2012/03/14

VMD #1-3  
Formation: DST #3 Arbuckle 3742-3805'  
Pool: Wildcat  
Job Number: S0112

# VMD #1-3





# Diamond Testing

## General information Report

### General Information

**Company Name** LD Drilling Inc

<b>Contact</b>	LD Davis	<b>Job Number</b>	S0112
<b>Well Name</b>	VMD #1-3	<b>Representative</b>	Jacob McCallie
<b>Unique Well ID</b>	DST #3 Arbuckle 3742-3805'	<b>Well Operator</b>	LD Drilling Inc
<b>Surface Location</b>	SEC 3-22S-12W Stafford County	<b>Report Date</b>	2012/03/14
<b>Well License Number</b>		<b>Prepared By</b>	Jacob McCallie
<b>Field</b>	Wildcat		
<b>Well Type</b>	Vertical		

<b>Test Type</b>	Drill Stem Test		
<b>Formation</b>	DST #3 Arbuckle 3742-3805'		
<b>Well Fluid Type</b>	01 Oil	<b>Start Test Time</b>	10:46:00
		<b>Final Test Time</b>	18:31:00
<b>Start Test Date</b>	2012/03/14		
<b>Final Test Date</b>	2012/03/14		
<b>Gauge Name</b>	30035		
<b>Gauge Serial Number</b>			

### Test Results

#### RECOVERY:

126'	GIP	16% Gas	33% Oil	31% WTR	20% Mud
680'	Gassy / Muddy / Watery Oil	8% Oil	85% WTR	7% Mud	
189'	MC/OC WTR	98% WTR	2% Mud		
567'	MC WTR				
1436'	TOTAL FLUID				

Ph: 7  
RW: .32 @ 83 degrees F  
Chlorides: 21,000 ppm  
Gravity: 30 @ 60 degrees F

#### TOOL SAMPLE:

100% CO

**OPERATOR**

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

Contact Geologist:  
 Contact Phone Nbr: 620-793-3051  
 Well Name: VMD #1-3  
 Location: 8 5/8" @ 878'  
 Pool:  
 State: Kansas, Stafford County

API: 15-185-23739-00-00  
 Field: Wildcat  
 Country: USA



# Musgrove

**PETROLEUM  
 CORPORATION**  
 Claflin, Kansas

Scale 1:240 Imperial

Well Name: VMD #1-3  
 Surface Location: 8 5/8" @ 878'  
 Bottom Location:  
 API: 15-185-23739-00-00  
 License Number:  
 Spud Date: 3/8/2012 Time: 3:34 PM  
 Region: S2-SE-NE-SW Sec. 3 Twp. 22s Rge. 14w  
 Drilling Completed: 3/15/2012 Time: 5:50 PM  
 Surface Coordinates: 1500' From South Line & 2310' From West Line  
 Bottom Hole Coordinates:  
 Ground Elevation: 1937.00ft  
 K.B. Elevation: 1942.00ft  
 Logged Interval: 3100.00ft To: 3900.00ft  
 Total Depth: 3900.00ft  
 Formation:  
 Drilling Fluid Type: Chemical mud displaced @ 2816

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 1500' From South Line  
 E/W Co-ord: 2310' From West Line

**LOGGED BY**

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

**CONTRACTOR**

Contractor: Petromark Drilling LLC  
 Rig #: 2  
 Rig Type: mud rotary  
 Spud Date: 3/8/2012 Time: 3:34 PM  
 TD Date: 3/15/2012 Time: 5:50 PM  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 1942.00ft Ground Elevation: 1937.00ft

**NOTES**

On the Basis of the positive structural position, DST #3 and reviewing the electric logs, it was recommended by all parties involved with the VMD 1-3 that 5 1/2" production casing be set and cemented at rotary total depth to further test the following zones: Arbuckle and Simpson

# L.D. Drilling, Inc.

## well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
VMD #1-3					"OWWO" HICKMAN #1				Weers #1			
1942 KB					1943 KB		Structural Relationship		1946 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	839	1103							848	1098		
Heebner	3303	-1361	3305	-1363	3304	-1361	flat		3323	-1377	16	
Toronto	3323	-1381	3329	-1387					3348	-1402	21	
Douglas	3344	-1402	3344	-1402								
Brown Lime	3426	-1484	3424	-1482	3424	-1481	-3		3447	-1501	17	
Lansing	3436	-1494	3434	-1492	3434	-1491	-3		3456	-1510	16	
Base KC	3663	-1721	3658	-1716					3693	-1747	26	
Viola	3706	-1764	3710	-1768	3718	-1775	9		3732	-1786	22	
Simpson	3747	-1805	3748	-1806	3763	-1820	15		3774	-1828	23	
Arbuckle	3797	-1855	3798	-1856	3793	-1850	-5					
Total Depth	3900	-1958	3901	-1959	3818	-1875			3808	-1862		

# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling Inc

Contact	LD Davis	Job Number	90110
Well Name	VMD #1-3	Representative	Jacob McCallie
Unique Well ID	DST #1 Lansing J-K 3585-3635'	Well Operator	LD Drilling Inc
Surface Location	SEC 3-228-14W Stafford County	Report Date	2012/03/13
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #1 Lansing J-K 3585-3635'		
Well Fluid Type	01 Oil	Start Test Time	02:35:00
		Final Test Time	10:27:00
Start Test Date	2012/03/13		
Final Test Date	2012/03/13		

Gauge Name	30035
Gauge Serial Number	

Test Results

# Test Results

## RECOVERED:

74' MUD / WTR  
126' Muddy WTR  
200' TOTAL FLUID

51% WTR 49% MUD  
85% 15% MUD

Ph: 8

RW: .32 @ 62 degrees F

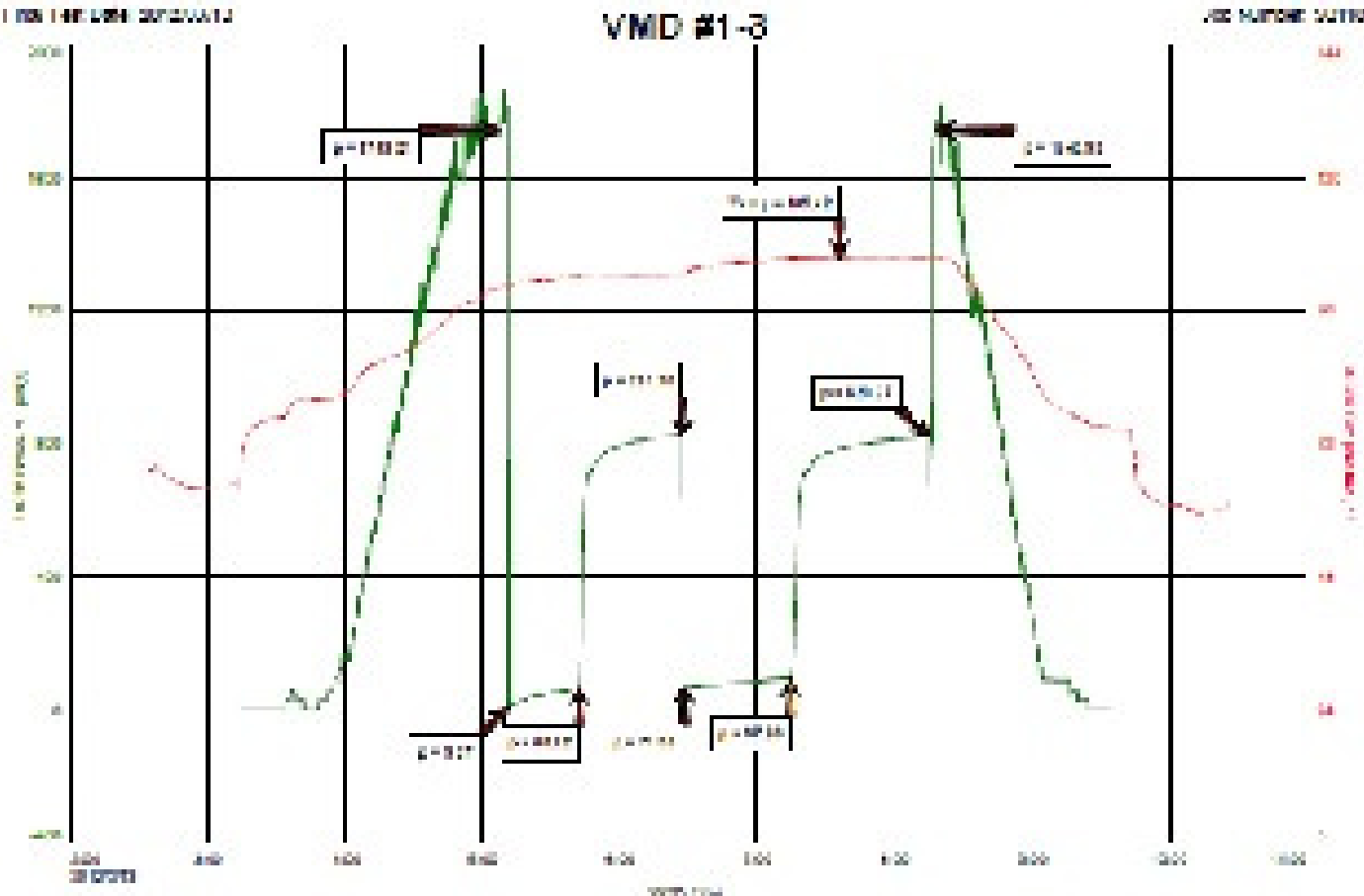
Chlorides: 34,000 ppm

## TOOL SAMPLE:

5% OIL 55% WTR 40% MUD

LD Drilling Inc.  
P.O. Box 100000  
Houston, TX 77258-0000  
713-465-0000

VMD #1-3  
P.O. Box 100000  
Houston, TX 77258-0000  
713-465-0000



# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling INC.

Contact

LD Davis

Well Name

VMD #1-3

Job Number

80111

License Well ID

DIST #2 VMD# 3058-3751

Representation

Jacob McCallie



Unique Well ID: DST #2 Viola 3658-3751  
 Surface Location: SEC 3-22S-12W Stafford County  
 Well License Number:  
 Field: Wildcat  
 Well Type: Vertical

Representative: Jacob McCallie  
 Well Operator: LD Drilling INC.  
 Report Date: 2012/03/14  
 Prepared By: Jacob McCallie

Test Type: Drill Stem Test  
 Formation: DST #2 Viola 3658-3751  
 Well Fluid Type: 01 Oil  
 Start Test Time: 20:20:00  
 Final Test Time: 01:13:00

Start Test Date: 2012/03/13  
 Final Test Date: 2012/03/14

Gauge Name: 30035  
 Gauge Serial Number:

## Test Results

### RECOVERED:

8' Drilling Mud 100% MUD  
 8' TOTAL FLUID

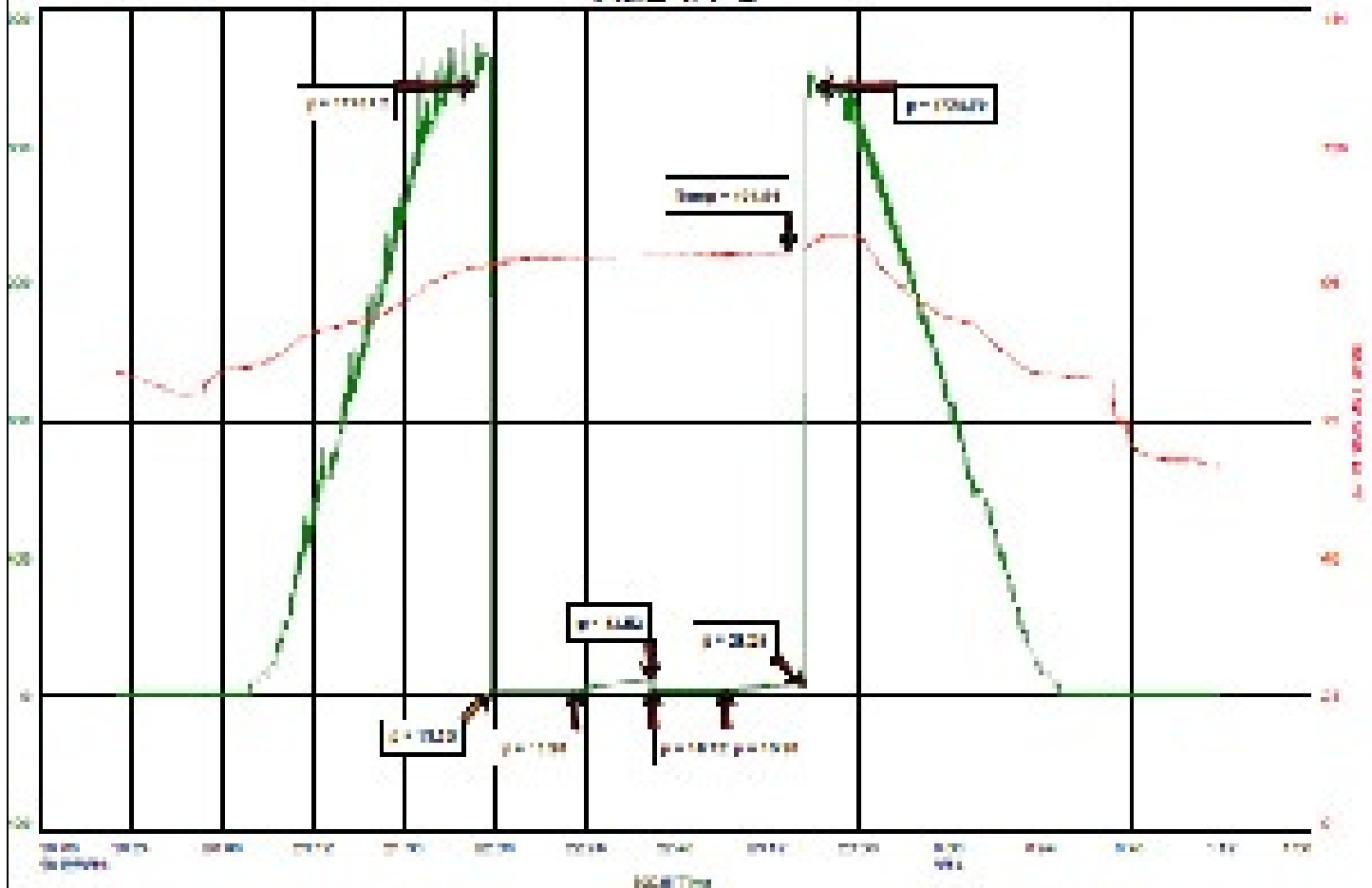
### TOOL SAMPLE:

100% DM

Logging No:  
 By: JMB  
 Tool Sub: 20120313  
 Tool Sub: 20120314

Well ID: VMD #1-3  
 Well Name: VMD #1-3  
 Well Number: 30035

### VMD #1-3



# Diamond Testing

## General information Report

### General Information

Company Name LD Drilling Inc

Contact	LD Davis		
Well Name	VMD #1-3	Job Number	S0112
Unique Well ID	DST #3 Arbuckle 3742-3805'	Representative	Jacob McCallie
Surface Location	SEC 3-22S-12W Stafford County	Well Operator	LD Drilling Inc
Well License Number		Report Date	2012/03/14
Field	Wildcat	Prepared By	Jacob McCallie
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST #3 Arbuckle 3742-3805'	Start Test Time	10:45:00
Well Fluid Type	01 Oil	Final Test Time	18:31:00
Start Test Date	2012/03/14		
Final Test Date	2012/03/14		

Gauge Name	30035	Ph: 7
Gauge Serial Number		RW: .32 @ 83 degrees F
		Chlorides: 21,000 ppm
		Gravity: 30 @ 60 degrees F

### Test Results

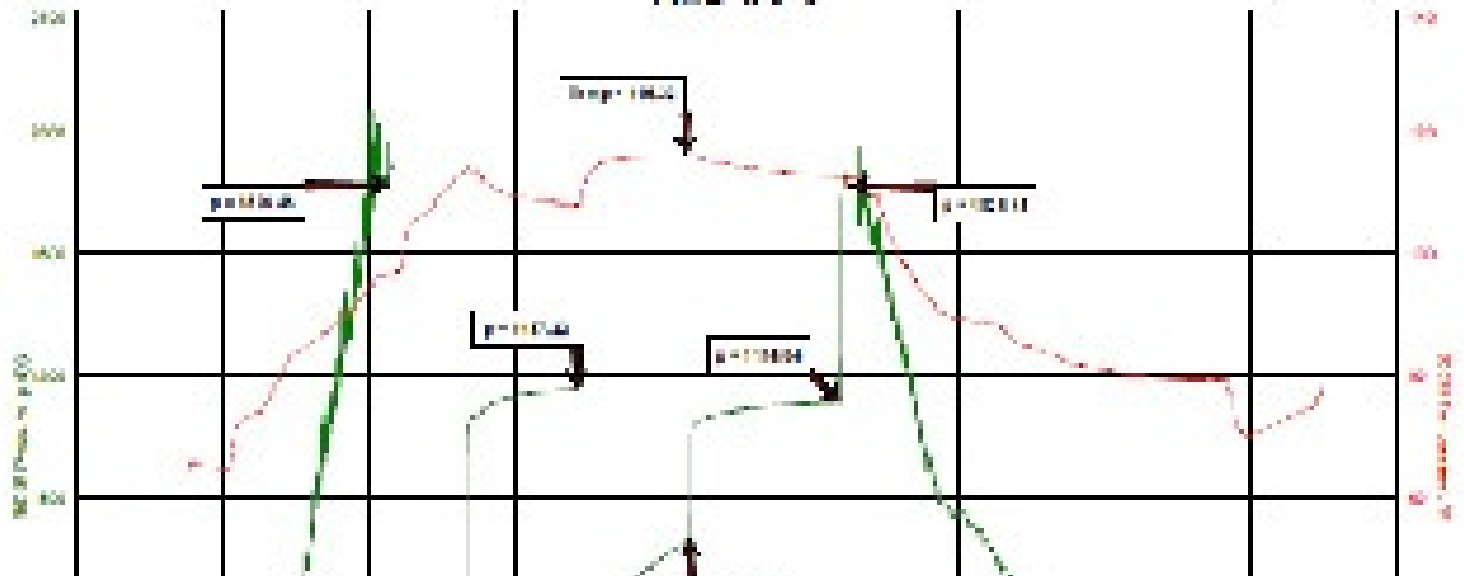
#### RECOVERY:

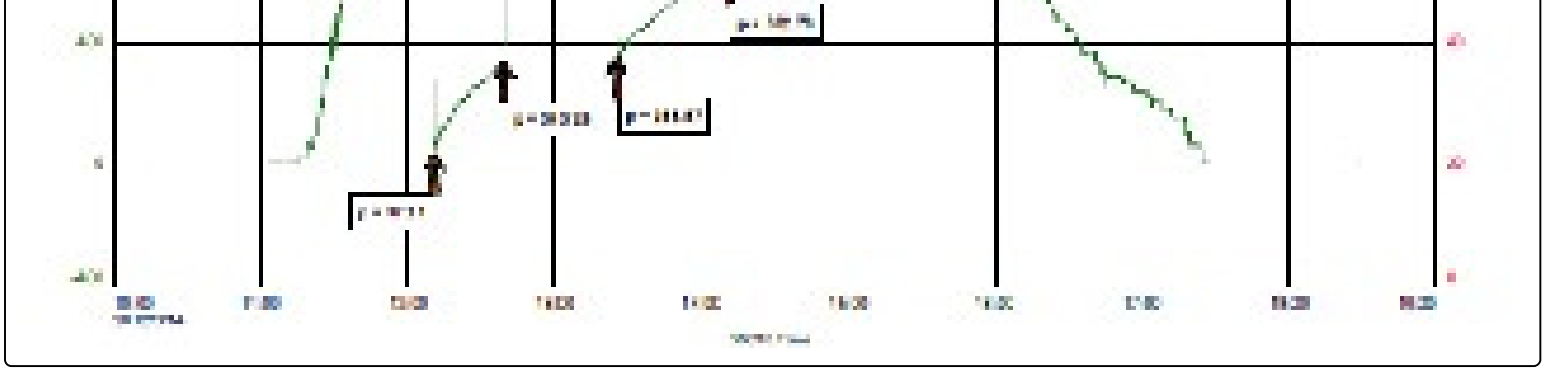
126'	QIP	
680'	Gassy / Muddy / Watery Oil	16% Gas 33% Oil 31% WTR 20% Mud
189'	MC/GC WTR	8% Oil 85% WTR 7% Mud
567'	MC WTR	98% WTR 2% Mud
1436'	TOTAL FLUID	
TOOL SAMPLE: 100% CO <sub>2</sub>		

LD Drilling Inc  
 DST #3 Arbuckle 3742-3805'  
 VMD #1-3 DST #3  
 Final Test Date 20-03-14

Well #1-3  
 Operator: DST #3 Arbuckle 3742-3805'  
 Well: VMD#03  
 Job Number: S0112

### VMD #1-3





### ROCK TYPES

Cht	Dolprim	shale, grn	Carbon Sh
Cht vari	Lmst fw7>	shale, gry	Ss

### ACCESSORIES

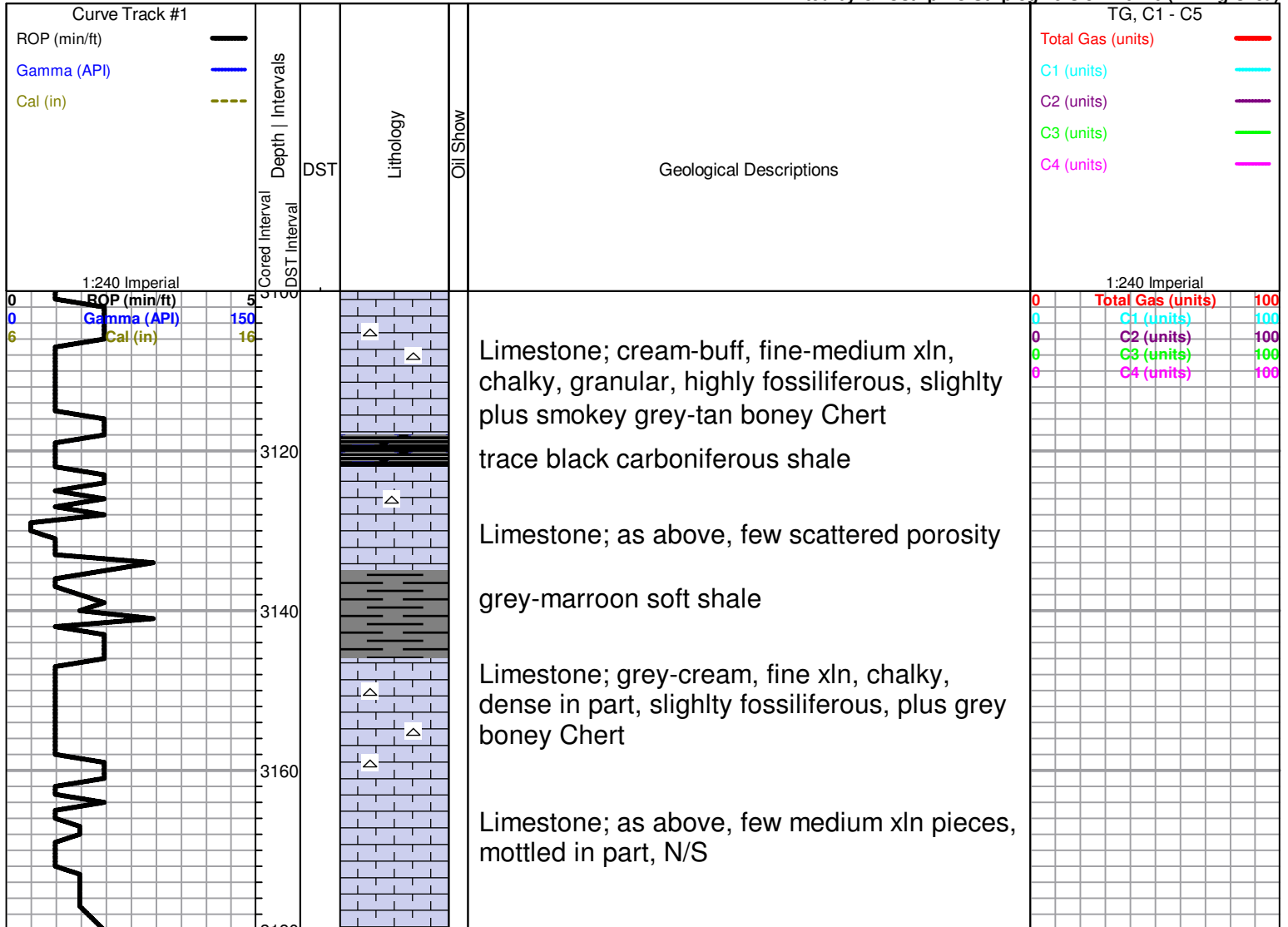
<b>MINERAL</b>	<b>FOSSIL</b>
• Silty	F Fossils < 20%
△ Chert White	○ Oolite
Mc Mica	⊕ Oomoldic

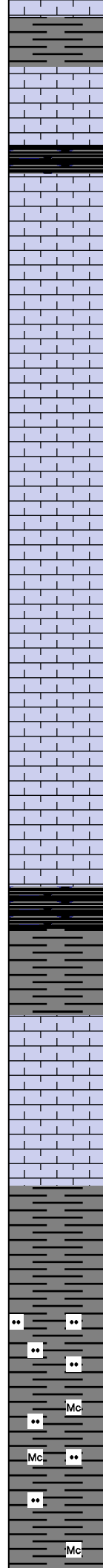
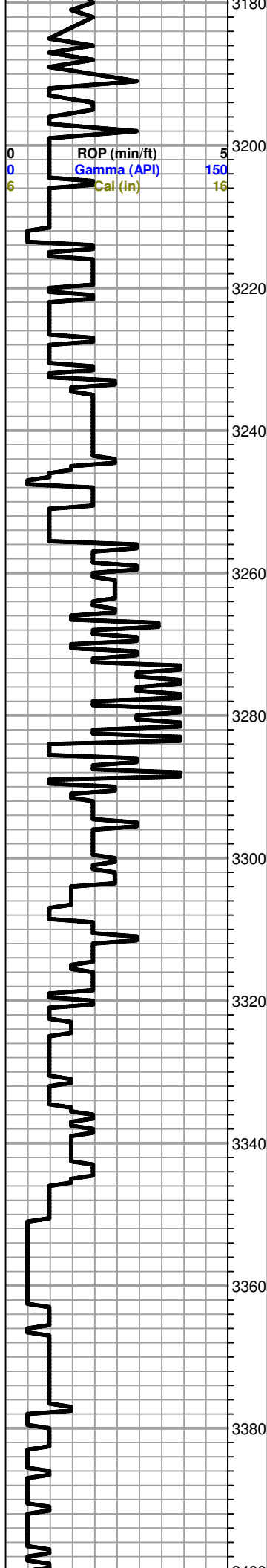
### OTHER SYMBOLS

**DST**

- DST Int
- DST alt
- Core
- tail pipe

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grey-green-marroon shale

Limestone; tan-cream, fine xln, slightly sucrosic, chalky, poor visible porosity

black carboniferous shale

Limestone; cream-tan, fine xln, chalky, fossiliferous in part, poorly developed porosity, no shows

Limestone; grey-buff, fine-medium xln, finely oolitic in part, granular, poor visible porosity, no shows

Limestone; buff-cream-tan, fine-medium xln, granular in part, slightly sucrosic, dolomitic in part, few scattered porosity, N/S

Limestone; cream-tan, fine xln, chalky in part, dense, trace vuggy type porosity, no shows

Limestone; cream-tan, fine xln, dense poor visible porosity, slightly cherty, no shows

**HEEBNER 3303 (-1361)**

Black Carboniferous Shale

grey-greyish green shale

**TORONTO 3323 (-1381)**

Limestone; cream-white, fine xln, slightly fossiliferous, dense, chalky in part, trace pinpoint type porosity, no shows

**DOUGLAS 3345 (-1403)**

Shale; grey-green-marroon, soft

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

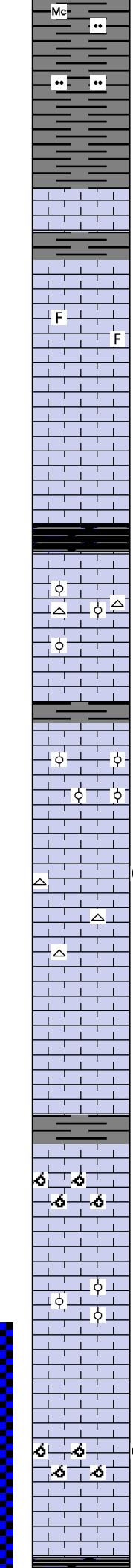
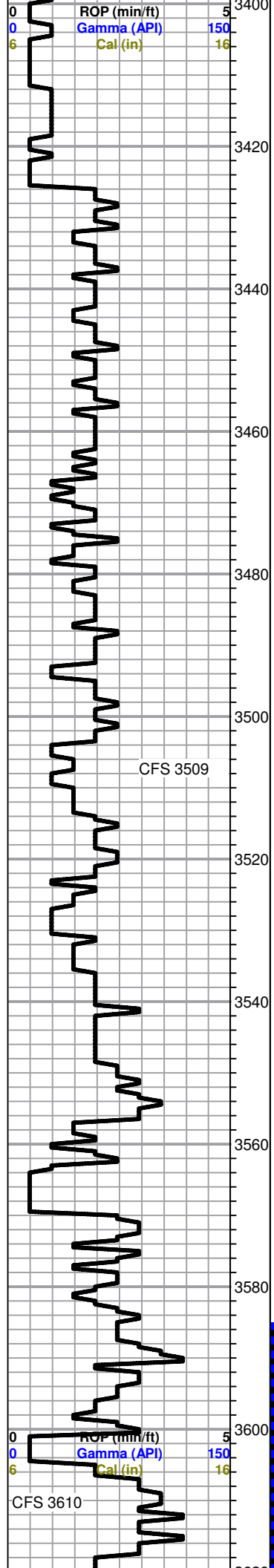
Shale; dark grey-grey, greyish green, soft, silty in part, slightly micaceous

Shale; as above silty, micaceous in part

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

**KB 1942**





as above

**BROWN LIME 3426 (-1484)**

Limestone; tan-brown, fine xln, dense, cherty, fossiliferous in part

**LANSING 3436 (-1494)**

Limestone; cream-tan, fine xln, chalky, fossiliferous in part, few scattered inter xln type porosity, trace lt. grey oolitic chert

Limestone; cream-white, fine xln, chalky, dense, slightly fossiliferous, poor porosity N/S

Limestone; cream-lt. grey, chalky, slightly fossiliferous, dense poorly developed porosity

Limestone; as above fossiliferous-oolitic, fair porosity, trace amber-orange chert

Limestone; cream, fine xln, chalky, few highly oolitic pieces, trace inter xln-fossil cast porosity, no shows

Limestone; cream, fine xln, chalky, few scattered inter xln type porosity, questionable trace brown stain, NSFO, no odor

plus Chert; grey-tan-amber, boney

Limestone; buff-lt. grey, fine xln, oolitic in part, few finely vuggy-pinpoint porosity, no shows

grey-dark grey soft shale

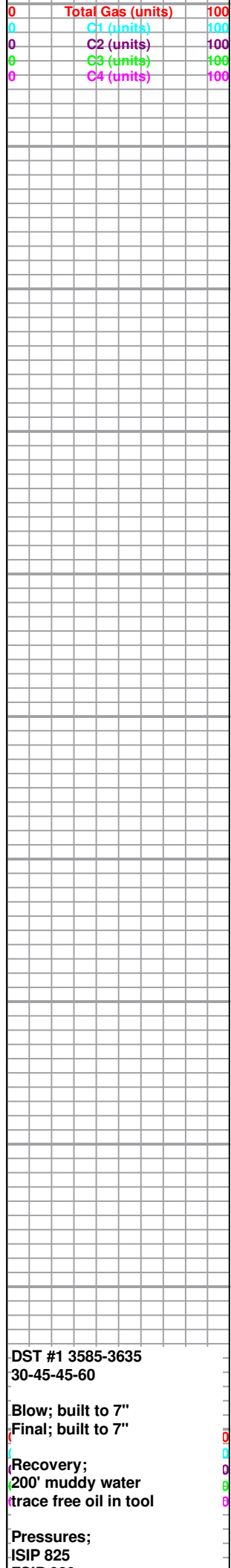
Limestone; tan-cream, chalky, oomoldic, few oolitic pieces, good oomoldic porosity (barren)

Limestone; cream-white, chalky, fine xln, slightly fossiliferous, few scattered porosity, no shows

Limestone; tan-cream, highly oolitic, poor visible porosity, dense, no shows

Limestone; tan, buff, sub oomoldic, oolitic, fair oomoldic type porosity, black-dark brown stain, SFO, very faint odor

Limestone; cream-brown, fine xln, dense, cherty, poor porosity

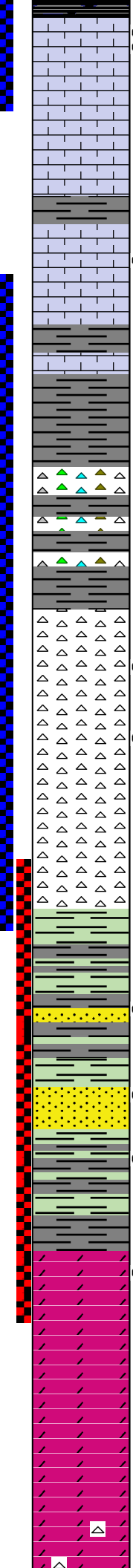
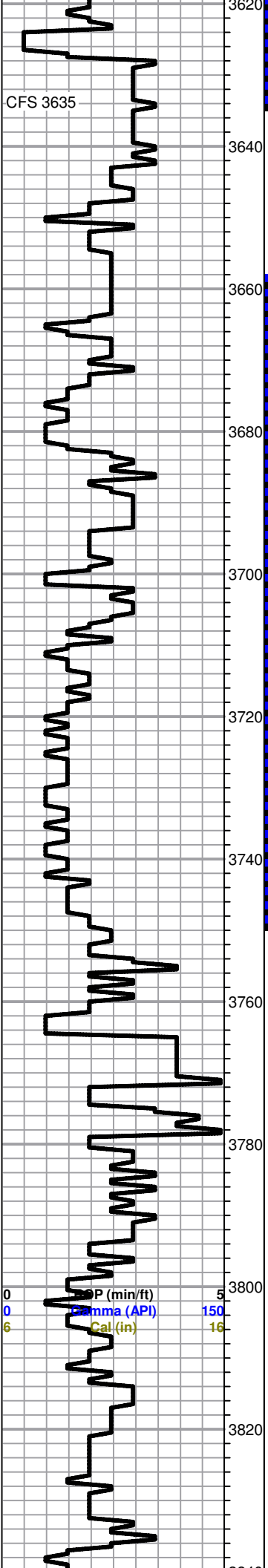


DST #1 3585-3635  
30-45-45-60

Blow; built to 7"  
Final; built to 7"

Recovery;  
200' muddy water  
trace free oil in tool

Pressures;  
ISIP 825



black carboniferous shale

black-grey shale

Limestone; grey-cream, oolitic, chalky oomoldic, fair-good oomoldic-oolicastic porosity, black-dark brown stain, heavy dark brown sfo in part, no odor

Limestone; white-grey, oolitic, chalky, poor porosity, trace black-grey stain, NSFO, no odor

**BASE KANSAS CITY 3663 (-1721)**

grey-brick red shale

grey-greish, purple-grey, maroon shale

trace white/orange Chert

shale and chert as above

**VIOLA 3706 (-1764)**

yellow/grey-white, boney; Chert

trace grey-black stain

Chert; white/grey, semi tripolitic, scattered porosity, black-grey stain, weak SFO, no odor

As above, few scattered pinpoint-finely vuggy porosity

**SIMPSON 3747 (-1805)**

grey-green-marroon waxey; Shale

Sand; clear, sub angular, sub rounded, friable, calcareous in part, fair-good inter granular porosity, black stain, SFO, saturated in part, faint odor

Shale; green-marroon-grey, waxey in part

Trace Sand as above brown-black stain, SFO

**ARBUCKLE 3797 (-1855)**

Dolomite; cream, fine-medium xln, slightly sucrosic, dense, trace vuggy porosity, dark brown stain, spotty sfo, no odor

Dolomite; cream-buff, fine xln, few medium xln, sucrosic, trace inter xln porosity, slightly cherty, dense, no shows

Dolomite; cream-grey, fine xln, dense, cherty, poor visible porosity, plus white-translucent

FSIP 820  
IFP 9-69  
FFP 71-97  
HSH 1743-1744

DST #2 3658-3751  
20-20-20-20  
Blow; died in 17 minutes

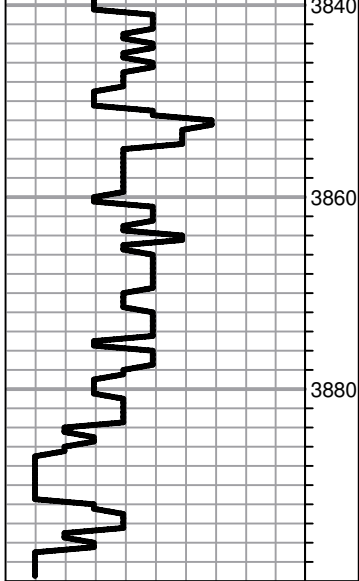
Recovery;  
8' mud

Pressures;  
ISIP 44  
FSIP 25  
IFP 12-13  
FFP 15-16  
HSH 1779-1779

DST #3 3742-3805  
30-45-45-60  
Blow; BOB in 3 1/2 min.  
1/2" blow back  
Final; BOB in 3 1/2 min.  
weak surface blow back

Recovery;  
126' GIP  
680' GMWO  
(16%g 33%o 31%w 20%<sub>m</sub>)  
189' M&OCW  
(8%o 85%w 7%<sub>m</sub>)  
567' muddy water  
Chlorides 21,000  
Gravity 30 @ 60 degrees

Pressures;  
ISIP 1157  
FSIP 114  
IFP 37-344  
FFP356-663  
HSH 1826-1824



Chert

Dolomite; tan/cream/lt. grey, fine xln, sucrosic in part, dense, cherty, plus white boney; Chert no shows

Dolomite; as above

Dolomite; cream-tan, fine-medium xln, dense, poorly developed porosity, no shows Plus white-translucent, boney; Chert

Dolomite and Chert as above

