



KANSAS CORPORATION COMMISSION 1082494
OIL & GAS CONSERVATION DIVISION

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>03/08/2012</u>	<u>03/15/2012</u>	<u>03/30/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23739-00-00
Spot Description: 150' S S2SENESEW
S2 SE NE SW Sec. 3 Twp. 22 S. R. 14 East West
1500 Feet from North / South Line of Section
2310 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Stafford
Lease Name: V M D Well #: 1-3
Field Name: WILDCAT
Producing Formation: ARBUCKLE
Elevation: Ground: 1941 Kelly Bushing: 1942
Total Depth: 3900 Plug Back Total Depth: 3877
Amount of Surface Pipe Set and Cemented at: 878 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: 4000 ppm Fluid volume: 100 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: L. D. DRILLING, INC.
Lease Name: MERMIS License #: 6039
Quarter SE Sec. 24 Twp. 20 S. R. 15 East West
County: BARTON Permit #: D21526

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garcia Date: 05/25/2012



1082494

Operator Name: L. D. Drilling, Inc. Lease Name: V M D Well #: 1-3
 Sec. 3 Twp. 22 S. R. 14 East West County: Stafford

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: DUAL COMPENSATED POROSITY LOG DUAL INDUCTION LOG MICRORESISTIVITY	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border: none;"> <tr> <td style="width:60%; border: none;">Name Attached</td> <td style="width:20%; border: none;">Top Attached</td> <td style="width:20%; border: none;">Datum Attached</td> </tr> </table>	Name Attached	Top Attached	Datum Attached
Name Attached	Top Attached	Datum Attached		

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
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 (Amount and Kind of Material Used)	Depth
4	3798 - 3799'; 3770 - 3774'		

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>3874</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>04/02/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio

DISPOSITION OF GAS: <input type="checkbox"/> Ventad <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 (Specify) _____	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

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

SURFACE	12.25	8.625	24	878	A-CONN	175	
SURFACE CON'T	12.25	8.625	24	878	COMMON	175	
PRODUC TION	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
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, BOWDER			
AUTHORIZED BY:				JOB TYPE: CNW-8 3/8" 5.1"							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED: 3-9-12		DATE	AM	TIME	
37586									PM	11:00	
19889-19843	1					ARRIVED AT JOB:			PM	1:30	
19831-19862	1					START OPERATION:			PM	4:00	
						FINISH OPERATION:			PM	5:00	
						RELEASED:			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: *[Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE/REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	H-CON BLEND	SK	175		3,150.00
CP 100C	COMMON CEMENT	SK	175		2,200.00
CC 102	CELL-FLAKE	lb	88		1,320.00
CC 109	CALCIUM CHLORIDE	lb	825		806.25
CE 105	TAP ROPPER CMT. PLUG 8 3/8"	EA	1		225.00
CG 131	SUGAR	lb	100		800.00
E 108	PICKUP MILEAGE	MI	45		191.25
E 109	HEAVY EQUIPMENT MILEAGE	MI	40		200.00
E 113	PUMP DELIVERY CHARGE	TM	743		1,188.00
CE 201	DEPTA CHARGE 500-1000'	HR	1.4		1,200.00
CE 290	BLENDING SERVICE CHARGE	SK	350		490.00
CE 504	PUG CONTAINER CHARGE	DB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
				SUB TOTAL	9,035.00

CHEMICAL / ACID DATA:		

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

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



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 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>KMA 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>CMW.</u>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>3-15-12</u> DATE <u>PM</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>PM</u> <u>100</u>
<u>19826-19860</u>	<u>2</u>					FINISH OPERATION <u>3-15-12</u> <u>PM</u> <u>300</u>
						RELEASED <u>3-15-12</u> <u>PM</u> <u>230</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 Port	SK	30		\$ 300.00
CC102	Cell Floke	lb	98		\$ 140.00
CC112	Cement Friction Reducer	lb	43		\$ 251.00
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 Reg 5 1/2" Blue	CA	1		\$ 200.00
CF1451	Flapper Type Insert	EA	1		\$ 215.00
CE1621	Turbolizer	EA	6		\$ 660.00
CC151	mud Flush	gal	1000		\$ 260.00
FE100	unit mileage charge Pick Up	hrs	4.5		\$ 191.25
EL131	Bulk Delivery chg.	Tn	376		\$ 601.20
CF204	Depth Charge 3001-4000'	4-hr	1		\$ 216.00
CF240	Blending & mixing service chg.	SK	180		\$ 252.00
CF304	Plug container utilization chg.	Job	1		\$ 250.00
S203	Service Supervisor First Shift	CA	1		\$ 175.00
EL101	Heavy Equip mileage	mi	90		\$ 630.00
CC113	Gypsum	lb	706		\$ 628.25
CC131	Sugar	lb	100		\$ 200.00
				SUB TOTAL	\$ 8397.54
CHEMICAL / ACID DATA:					
SERVICE & EQUIPMENT					%TAX ON \$
MATERIALS					%TAX ON \$
TOTAL					\$ 8397.54

SERVICE REPRESENTATIVE <u>Allen, Joe</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Joe Allen</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer L.D. Drilling Inc	Lease No.	Date 3-15-12
Lease VMO	Well # 1-3	
Field Order # 25000A	Station Pratt KS	Casing 5/8"
Type Job 5/8" L.S.	Formation COU	Depth 3896'
		County Stafford
		State KS
		Legal Description 3-22-14

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
5/8"				150sk Common @ 15'			
Depth	Depth	From	To	Pre Pad	Max		5 Min.
94.69							
Volume	Volume	From	To	Pad	Min		10 Min.
1000				24 BBL mud flush			
Max Press	Max Press	From	To	Pre	Avg	Plug Rot Hole	15 Min.
				30sk 60/40 Poz			
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load
3881				Disp H2O			

Customer Representative Tim TP	Station Manager 320Hy	Treater Allen
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Service Units	78443	19959	20929	19826	19860
Driver Names	Allen	Tae	Melton	Mike	McGraw

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00 PM					ON Loc. Discuss Safety, Setup, Plans. Running casing. 14'
					Cent. 1-3-5-7-9-11
					Shoe Jt. 14.40 w/Reg. Shoe - Fillup in collar.
100	200'		25	5	TAG Bottom. Set @ 3896' circ/rig
			3	5	Pump 24 BBL mud flush
			38	5	Pump 6 BBL H2O
					Pump 150sk common @ 15'
					wash out pump & line
	500'			4	5 1/2 Drop Top Rubber Plug. Start Disp
245	1000'		94.6	3	caught lift.
	0'				Plug down
			7		Release PST @
					Plug R.N. w/ 30sk 60/40 Poz
					washup Equip.
					Rackup equip.
230					Job complete.

Thanks Allen Joe McGraw



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: VMD1-3DST1

TIME ON: 02:35:00
TIME OFF: 10:27:00

Company LD Drilling Inc Lease & Well No. VMD #1-3
Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc
Elevation 1943 KB Formation Lansing J-K Effective Pay _____ Ft. Ticket No. S0110
Date 3-13-12 Sec. 3 Twp. 22 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3585 ft. to 3635 ft. Total Depth 3635 ft.
Packer Depth 3580 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3585 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3573 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 60 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 9 Water Loss 8.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 1,800 P.P.M. Drill Pipe Length 3440 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-F in.
Did Well Flow? NO Reversed Out NO Anchor Length 50 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 7" in 30 min **NOBB**
2nd Open: WSB- Built to 7" in 45 min **NOBB**

Recovered 74 ft. of Mud / WTR 51% WTR 49% MUD
Recovered 126 ft. of Muddy WTR 85% WTR 15% MUD
Recovered 200 ft. of **TOTAL FLUID**

Recovered _____ ft. of Ph: 8

Recovered _____ ft. of RW: .32 @ 62 degrees F Price Job _____

Recovered _____ ft. of Chlorides: 34,000 ppm Other Charges _____

Remarks: _____ Insurance _____

TOOL SAMPLE: 5% OIL 55% WTR 40% MUD Total _____

Time Set Packer(s) 5:10 AM A.M. P.M. Time Started Off Bottom 8:10AM A.M. P.M. Maximum Temperature 105

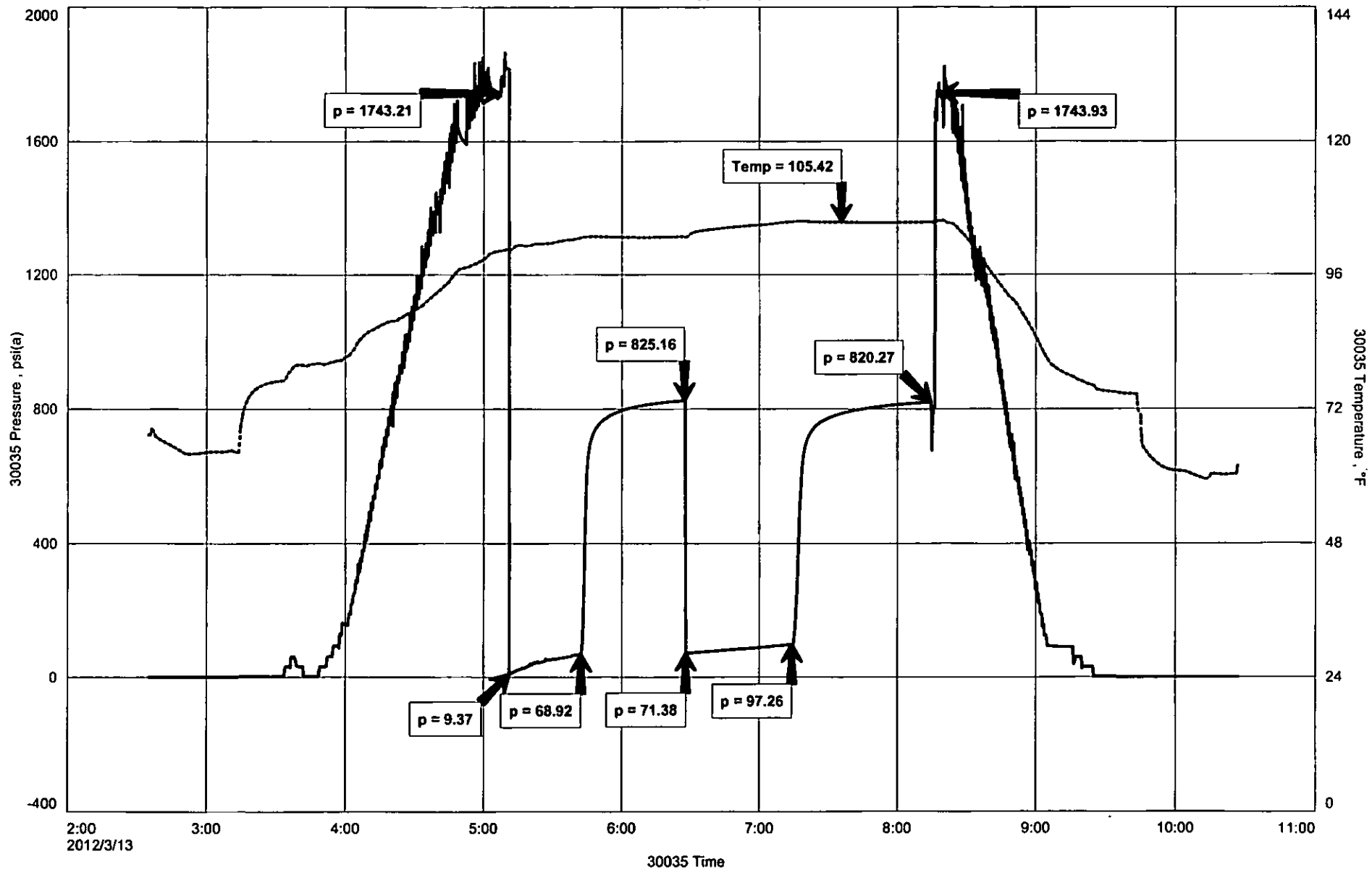
Initial Hydrostatic Pressure..... (A) 1743 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 69 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 825 P.S.I.
Final Flow Period..... Minutes 45 (E) 71 P.S.I. to (F) 97 P.S.I.
Final Closed In Period..... Minutes 60 (G) 820 P.S.I.
Final Hydrostatic Pressure..... (H) 1744 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

Contact	LD Davis	Job Number	S0110
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 3-22S-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

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: VMD1-3DST2

TIME ON: 20:20:00 3-13

TIME OFF: 01:13:00 3-14

Company LD Drilling Inc Lease & Well No. VMD #1-3
Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc
Elevation 1943 KB Formation Viola Effective Pay _____ Ft. Ticket No. S0111
Date 3-14-12 Sec. 3 Twp. 22 S Range 12 W County Stafford State KANSAS
Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3658 ft. to 3751 ft. Total Depth 3751 ft.
Packer Depth 3653 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3658 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ 3646 ft. Recorder Number 30035 Cap. 10000 P.S.I.
Bottom Recorder Depth (Outside) _____ 3748 ft. Recorder Number 3851 Cap. 5700 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 56 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,000 P.P.M. Drill Pipe Length 3513 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 93 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- Died in 17 1/2 min **NOBB**
2nd Open: No Blow- No Build **NOBB**

Recovered <u>8 ft.</u> of <u>Mud</u> <u>100% DM</u>	
Recovered <u>8 ft.</u> of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 100% DM	Total

Time Set Packer(s) 10:00 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 11:20 PM ^{A.M.}/_{P.M.} Maximum Temperature 102

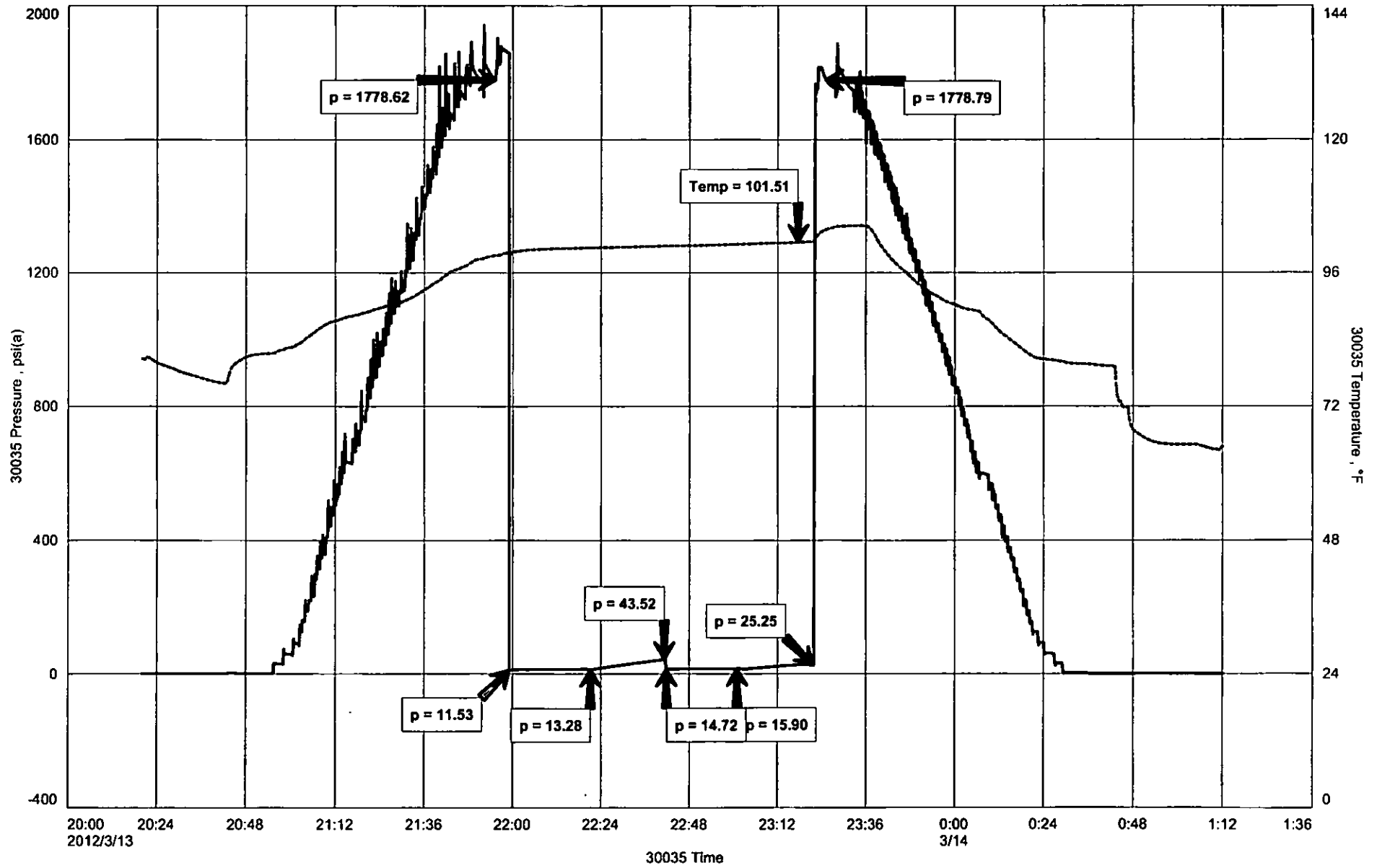
Initial Hydrostatic Pressure..... (A) 1779 P.S.I.
Initial Flow Period..... Minutes 20 (B) 12 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 20 (D) 44 P.S.I.
Final Flow Period..... Minutes 20 (E) 15 P.S.I. to (F) 16 P.S.I.
Final Closed In Period..... Minutes 20 (G) 25 P.S.I.
Final Hydrostatic Pressure..... (H) 1779 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 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.

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

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



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: VMD1-3DST3

TIME ON: 10:46:00
 TIME OFF: 18:31:00

Company LD Drilling Inc Lease & Well No. VMD #1-3
 Contractor Petromark Drilling Rig #2 Charge to LD Drilling Inc
 Elevation 1943 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. S0112
 Date 3-14-12 Sec. 3 Twp. 22 S Range 12 W County Stafford State KANSAS
 Test Approved By Josh Austin Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 3742 ft. to 3805 ft. Total Depth 3805 ft.
 Packer Depth 3737 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3742 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 3730 ft. Recorder Number 30035 Cap. 10000 P.S.I.
 Bottom Recorder Depth (Outside) 3802 ft. Recorder Number 3851 Cap. 5700 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 58 Drill Collar Length 119 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 4,000 P.P.M. Drill Pipe Length 3597 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number N/A Test Tool Length 26 ft. Tool Size 3 1/2-F in.
 Did Well Flow? NO Reversed Out NO Anchor Length 63 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 1/2" Blow- Built to BB in 3 1/2 min 1/2" BB
 2nd Open: 2" Blow- Built to BB in 3 1/2 min WSBB

Recovered 126 ft. of GIP
 Recovered 680 ft. of Gassy/Muddy/Watery Oil 16% GAS 33% OIL 31% WTR 20% MUD
 Recovered 189 ft. of MC/OC WTR 8% OIL 85% WTR 7% MUD
 Recovered 567 ft. of MC WTR 98% WTR 2% MUD

Recovered <u>1436</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of <u>Ph: 7 RW: .32 @ 83 degrees F Chlorides: 21,000 ppm</u>	Other Charges
Remarks: <u>GRAVITY: 30 @ 60 degrees F</u>	Insurance
<u>TOOL SAMPLE: 100% OIL</u>	Total

Time Set Packer(s) 12:10 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 3:10 PM ^{A.M.}/_{P.M.} Maximum Temperature 116

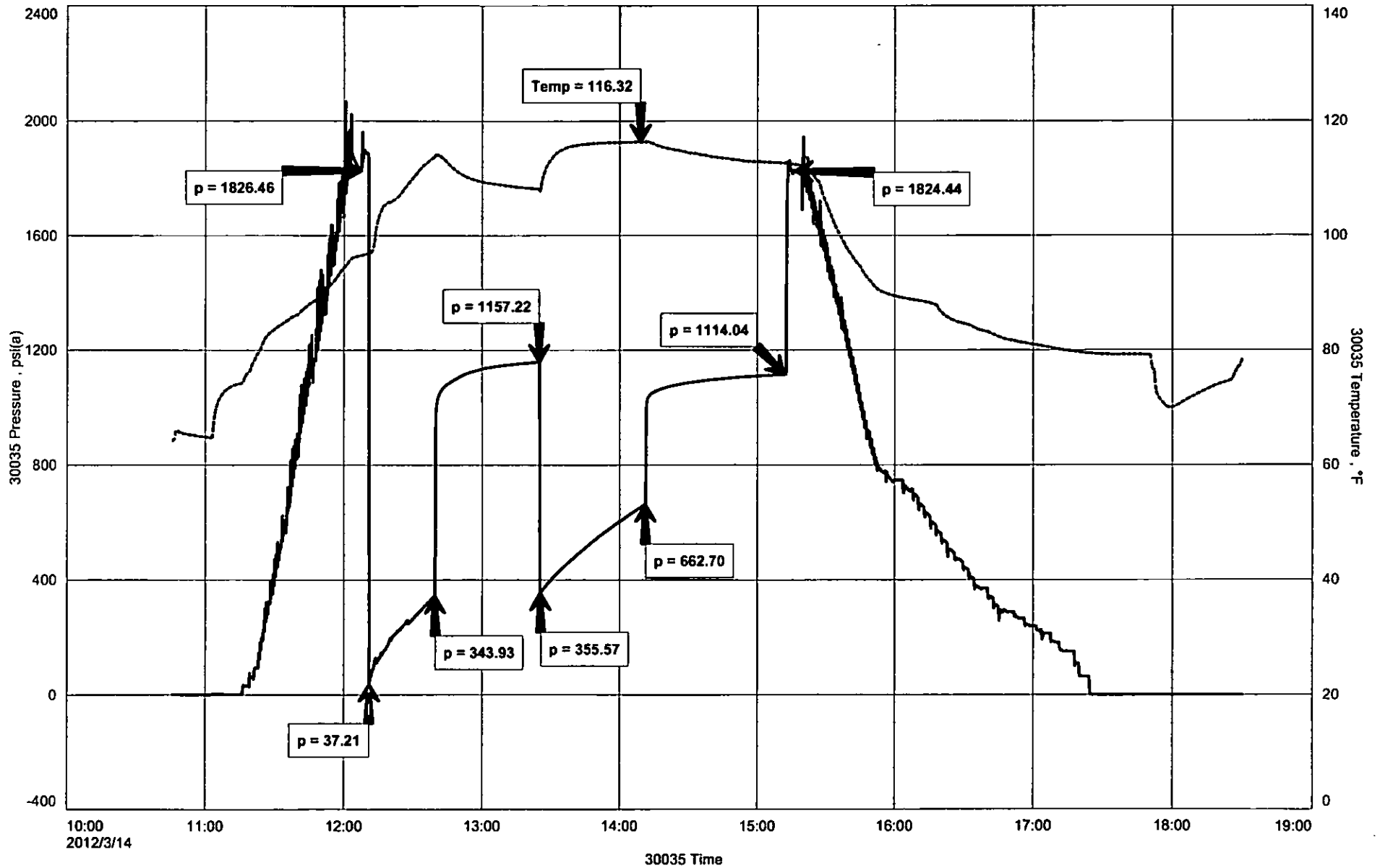
Initial Hydrostatic Pressure..... (A) 1826 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 37 P.S.I. to (C) 344 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1157 P.S.I.
 Final Flow Period..... Minutes 45 (E) 356 P.S.I. to (F) 663 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1114 P.S.I.
 Final Hydrostatic Pressure..... (H) 1824 P.S.I.

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

LD Drilling Inc
DST #3 Arbuckle 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

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

Test Type	Drill Stem Test		
Formation	DST #3 Arbuckle 3742-3805'	Start Test Time	10:46:00
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		
Gauge Serial Number			

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



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					"OWNO" HICKMAN #1				Weers #1				
1942 KB					1943 KB				1946 KB				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Structural Relationship	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	839	1103								848	1098		
Beebner	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

Well Name:

VMD #1-3

Unique Well ID:

DST #1 Lansing J-4 3585-3635

Job Number:

90110

Surface Location:

SEC 9-23S-14W Stafford County

Representative:

Jacob McCalla

Well License Number:

Well Operator:

LD Drilling Inc

Field:

Wildcat

Report Date:

2012/03/13

Well Type:

Vertical

Prepared By:

Jacob McCalla

Test Type:

Drill Stem Test

Formation:

DST #1 Lansing J-4 3585-3635

Well Fluid Type:

Oil OIL

Start Test Time:

02:55:00

Start Test Date:

2012/03/13

Final Test Time:

10:27:00

Final Test Date:

2012/03/13

Gauge Name:

90055

Gauge Serial Number:

Diamond Testing

General information Report

General Information

Company Name: LD Drilling Inc

Contact:	LD Davis	Job Number:	90112
Well Name:	VMD #1-3	Representative:	Jacob McCallie
Unique Well ID:	DST #3: Arbuckle 5742-3805	Well Operator:	LD Drilling Inc
Surface Location:	SEC 8-22S-12W Stafford County	Report Date:	2012/03/14
Well License Number:		Prepared By:	Jacob McCallie
Field:	Wildcat		
Well Type:	Vertical		

Test Type:	Drill Stem Test		
Formation:	DST #3: Arbuckle 5742-3805		
Well Fluid Type:	Oil/Gel	Start Test Time:	10:45:00
		Final Test Time:	18:31:00
Start Test Date:	2012/03/14		
Final Test Date:	2012/03/14		

Gauge Name:	30055	Phz 7
Gauge Serial Number:		IRM: 32 @ 83 degrees F
		Chloride: 21,000 ppm
		Gravity: 30 @ 60 degrees F

Test Results

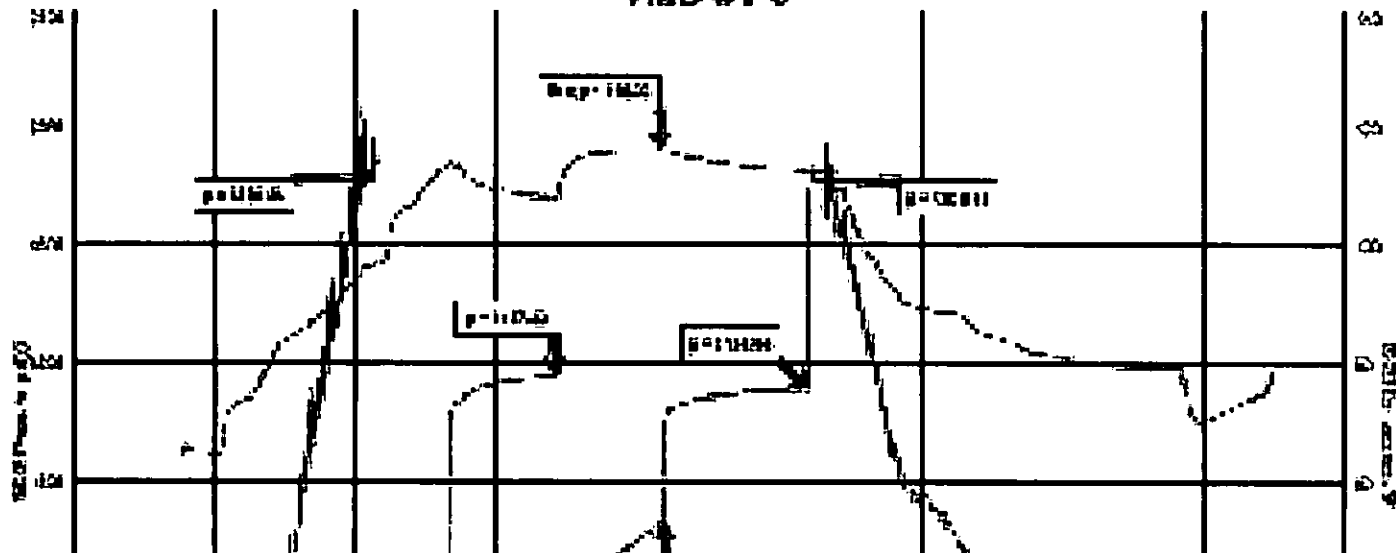
RECOVERY:

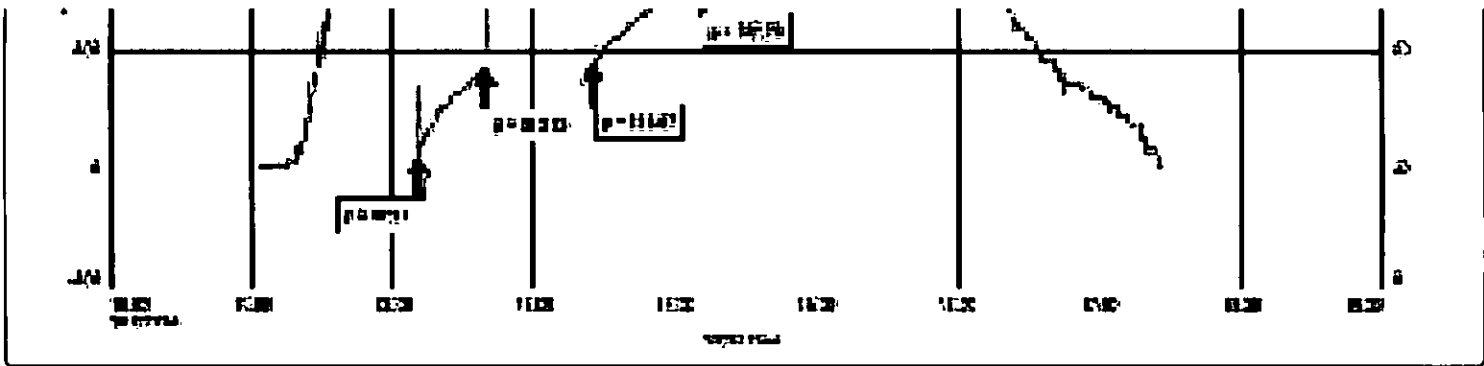
120'	OSP	
650'	Gassy / Muddy / Watery Oil	10% Gas 55% Oil 21% WTR 20% Mud
135'	MICRO WTR	8% Oil 85% WTR 7% Mud
567'	MIC WTR	85% WTR 2% Mud
1450'	TOTAL FLUID	
TOO SAMPLE: 100% CO ₂		

LD Drilling Inc
1547 E. Kentucky Blvd WYO
1001 Hill Circle Cheyenne WY
Final Test Cell: 30-30011









1547 E. D.
Kentucky 1547 E. Kentucky Blvd WYO
1001 Hill Circle Cheyenne WY
Job Number: 90112

VMD #1-3





ROCK TYPES

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

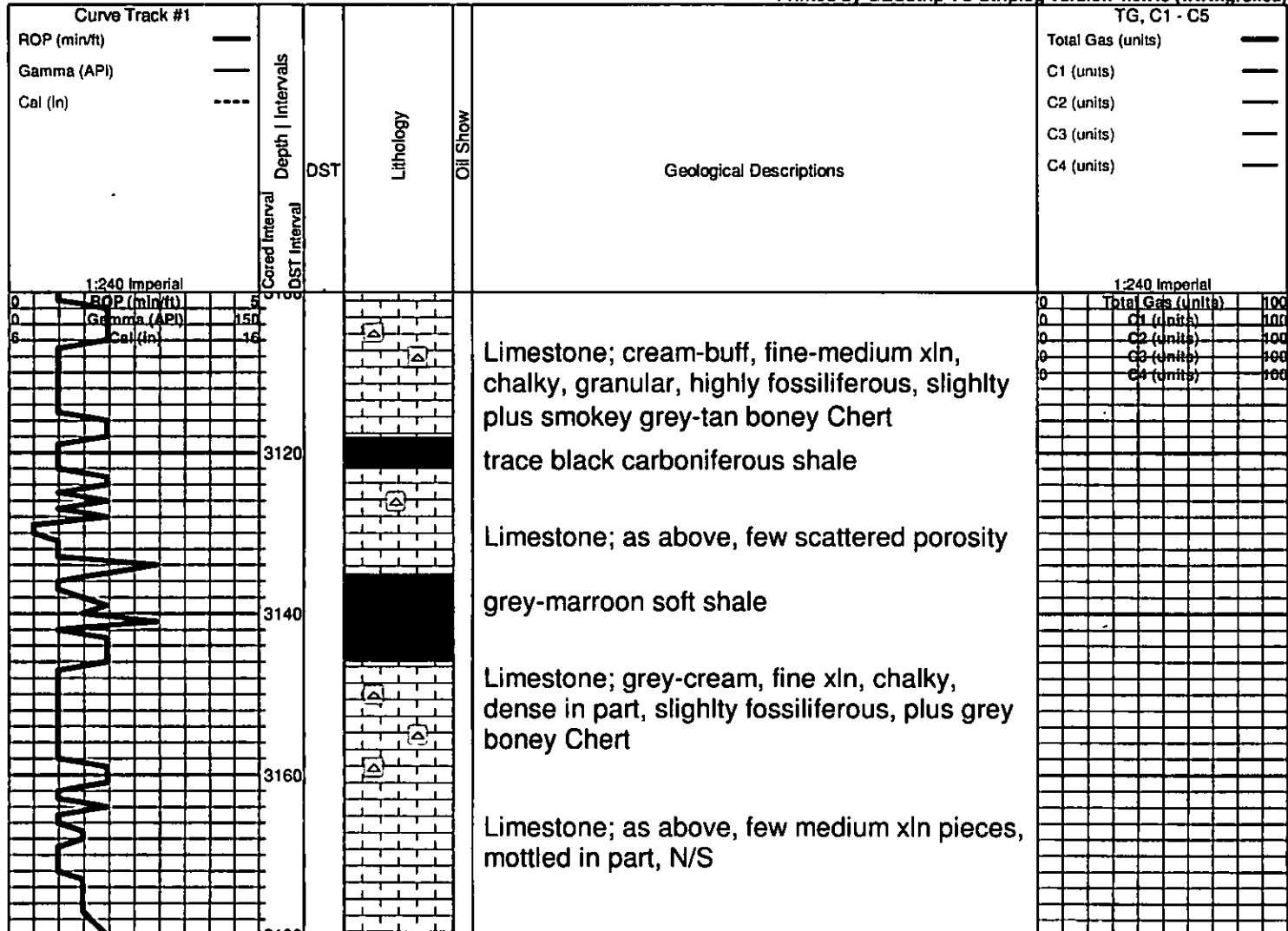
ACCESSORIES

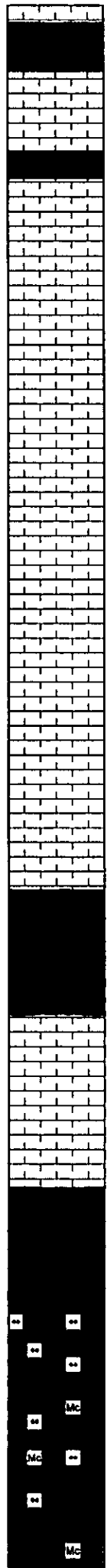
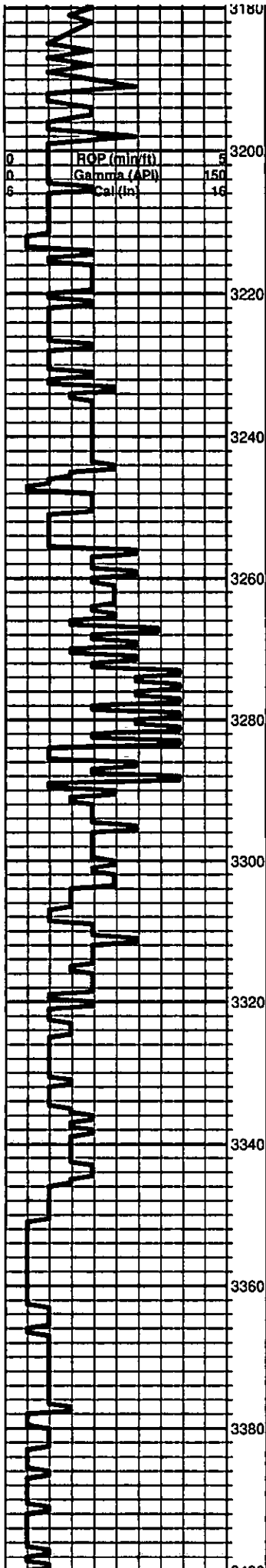
MINERAL	FOSSIL
- Silty	F Fossils < 20%
△ Chert White	○ Oolite
Mo Mica	◊ Oomoldic

OTHER SYMBOLS

DST
■ DST Int
■ DST alt
■ Core
tail pipe

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





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

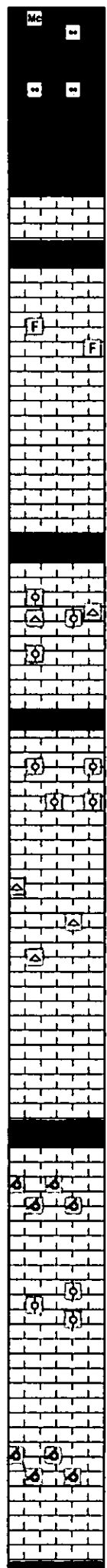
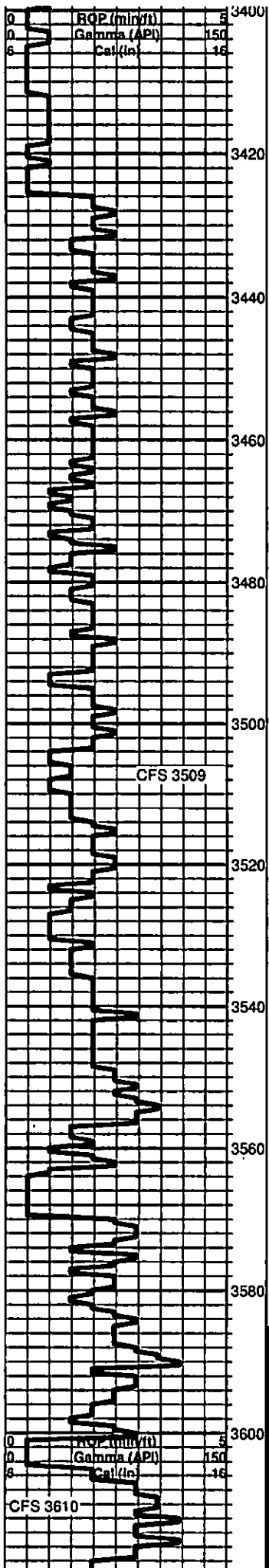
Shale; grey-greyish green, soft, silty in part

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

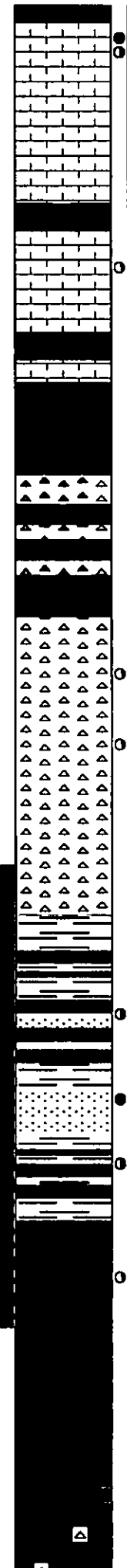
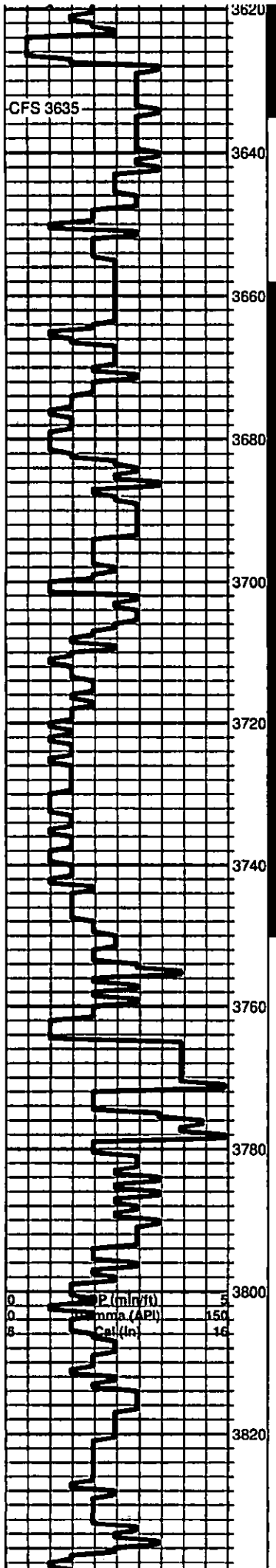
Limestone; tan-cream, highly oolitic, poor visible porosity, dense, no shows

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

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

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

black-grey shale
 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-maroon 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-maroon-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

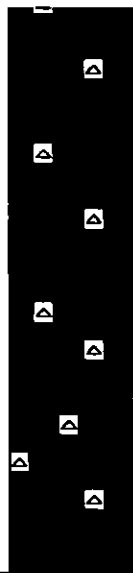
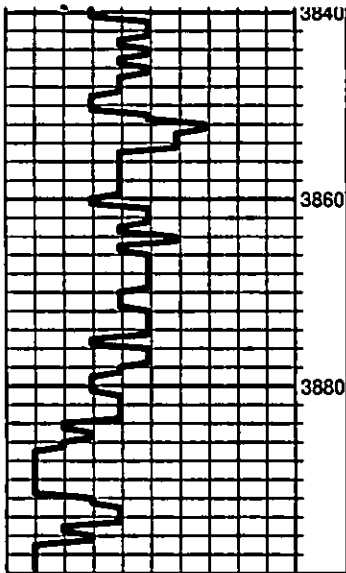
DST #2 3658-3751
 -20-20-20-20
 Blow; died in 17 minutes
 Recovery;
 8' mud

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% μ)
 189' M&OCW
 (8%o 85%w 7% μ)
 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

