



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1079021
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- 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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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

1079021

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Tjaden 'C' 2
Doc ID	1079021

All Electric Logs Run

CNL/CDL/PE
DIL
Micro
Sonic

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 18, 2012

Mark Shreve
Mull Drilling Company, Inc.
1700 N WATERFRONT PKWY
BLDG 1200
WICHITA, KS 67206

Re: ACO1
API 15-095-22242-00-00
Tjaden 'C' 2
NW/4 Sec.18-30S-07W
Kingman County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Mark Shreve

ALLIED CEMENTING CO., LLC. 038003

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Mich. Lakeside

DATE <u>1-21-12</u>	SEC. <u>18</u>	TWP. <u>30S</u>	RANGE <u>2W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00pm</u>	JOB FINISH <u>3:30pm</u>
LEASE <u>John C</u>		WELL # <u>2</u>		LOCATION <u>Sprague 1 south, 1/2 East</u>		COUNTY <u>Wagoner</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>11 Mts at top 5 ft</u>			

CONTRACTOR Mike R. #7 OWNER Mid. Oil

TYPE OF JOB Spud hole

HOLE SIZE 17 1/2 I.D. 96'

CASING SIZE 13 7/8 DEPTH 78'

TUBING SIZE 11 3/8 DEPTH 17'

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 300 psi MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20'

PERFS.

DISPLACEMENT 106 bbl @ 20'

CEMENT AMOUNT ORDERED 100 ex A + 3 1/2 ex + 2 1/2 gel

EQUIPMENT

~~PUMP TRUCK CEMENTER Montgomery~~

~~# 521 HELPER John Branch~~

BULK TRUCK # 421/252 DRIVER Russell Gibbons

BULK TRUCK # DRIVER

COMMON 100 SACKS "A" @	<u>11.25</u>	<u>1125.00</u>
POZMIX @		
GEL 2 SACKS @	<u>21.25</u>	<u>42.50</u>
CHLORIDE 4 SACKS @	<u>58.20</u>	<u>232.80</u>
ASC @		
@		
@		
@		
@		
@		
@		
@		
@		
HANDLING 100 (min) @	<u>2.25</u>	<u>\$ 225.00</u>
MILEAGE 106 x .11 x 20		<u>233.20</u>
TOTAL		<u>\$2477.50</u>

REMARKS:

Back up

run 5 bbl @ 20' ahead

on stand pump 100 ex cement

disp to 666 bbl stand in

cement did not set

SERVICE

DEPTH OF JOB <u>95'</u>		
PUMP TRUCK CHARGE		<u>1125.00</u>
EXTRA FOOTAGE @		
MILEAGE <u>40</u> @ <u>7.00</u>		<u>280.00</u>
MANIFOLD		
LV <u>40</u> @ <u>4.00</u>		<u>160.00</u>
@		
TOTAL		<u>\$1565.00</u>

CHARGE TO: Mid. Oil

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

@		
@		
@		
@		
@		
TOTAL		

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____

TOTAL CHARGES \$4042.50

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Gabriel R. [Signature]

SIGNATURE [Signature]

ALLIED CEMENTING CO., LLC. 038004

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: McDonald

DATE <u>1-21-12</u>	SEC. <u>18</u>	TWP. <u>30s</u>	RANGE <u>7W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30am</u>	JOB FINISH <u>9:30am</u>
LEASE <u>Tyler C</u> WELL # <u>2</u>		LOCATION <u>Springer South 1/2 E</u>			COUNTY <u>Wagoner</u>	STATE <u>OK</u>	
OLD OR NEW (Circle one)							

CONTRACTOR OK #7 OWNER Muller

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 235'
 CASING SIZE 8 1/2 DEPTH 229'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____

CEMENT AMOUNT ORDERED
175 SRA + 3 1/2 cu + 2% gel
50' spacer

PRES. MAX. 1100psi MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT 1 3/2 bbls fluid

COMMON 175 sacks "A" @ 16.25 2843.75
 POZMIX _____ @ _____ _____
 GEL 3 sacks @ 21.25 63.75
 CHLORIDE 6 sacks @ 58.20 349.20
 ASC _____ @ _____ _____

EQUIPMENT
 PUMP TRUCK CEMENTER Carl Thomas
 # S21 352 HELPER Jason Thomas, David Feltz
 BULK TRUCK # 421/252 DRIVER Derek Colburn, George Wright
 BULK TRUCK # _____ DRIVER _____

HANDLING 184 @ 2.25 414.00
 MILEAGE 20 x 184 x .11 404.80
 TOTAL \$4075.80

REMARKS:
Backhoe
prime 5 bbls fluid
work and mix 175 cement
50' 1 3/2 bbls fluid
shot in
cement discharge

SERVICE
 DEPTH OF JOB 229'
 PUMP TRUCK CHARGE _____ 1125.00
 EXTRA FOOTAGE _____ @ _____ _____
 MILEAGE 40 @ 7.00 280-
 MANIFOLD _____ @ _____ _____
 LV 40 @ 4.00 160-

CHARGE TO: Muller
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL \$1565.00

PLUG & FLOAT EQUIPMENT
 _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 _____ @ _____ _____
 TOTAL _____

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) _____
 TOTAL CHARGES \$1540.50
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Carl D. Reed
 SIGNATURE Carl D. Reed



PAGE 1 of 1	CUST NO 1002847	INVOICE DATE 01/31/2012
INVOICE NUMBER 1718 - 90816164		

Pratt (620) 672-1201
 B MULL DRILLING COMPANY
 I PO Box: 393
 L CHEYENNE WELLS
 L CO US 80810
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME T Jaden C 2
 O LOCATION
 B COUNTY Kingman
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

203

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40423932	19842/19843 (Libera)		Net - 30 days	03/01/2012	
For Service Dates: 01/29/2012 to 01/29/2012					
0040423932					
171804630A Cement-New Well Casing/Pi 01/29/2012 Cement 6 1/2" Longstring					
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
50/50 POZ		190.00	EA	8.33	1,583.31 T
60/40 POZ		50.00	EA	9.09	464.54 T
C-41P		32.00	EA	3.03	96.97 T
Salt		1,054.00	EA	0.38	399.24 T
Cement Friction Reducer		48.00	EA	4.55	218.18 T
Gypsum		800.00	EA	0.57	464.54 T
FLA-322		80.00	EA	5.68	454.54 T
Gilsonite		960.00	EA	0.51	482.19 T
Mud Flush		500.00	EA	0.65	326.75 T
Claymex KCL Substitute		5.00	EA	26.51	132.57 T
Latch Down Plug & Baffle 6 1/2" (Blue)		1.00	EA	303.03	303.03
Auto Fill Float Shoe 6 1/2" (Blue)		1.00	EA	272.72	272.72
Turbolizer 5 1/2" (Blue)		10.00	EA	83.33	833.32
Heavy Equipment Mileage		90.00	MI	5.30	477.27
Proppant and Bulk Delivery Charge		457.00	MI	1.21	553.93
Blending & Mixing Service Charge		240.00	MI	1.06	254.54
Unit Mileage Charge-Pickups, Vans & Cars		45.00	HR	3.22	144.88
Depth Charge: 4001-6000'		1.00	HR	1,909.10	1,909.10
Plug Container Utilization Charge		1.00	EA	189.39	189.39
Service Supervisor		1.00	HR	132.57	132.57
Casing Swivel Rental		1.00	EA	161.61	161.61

Joe Rouse
 FEB 07 2012

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	9,624.09
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	324.43
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	10,148.52
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



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 04630 A

DATE: _____ TICKET NO. _____

DATE OF JOB: 1-29-2012	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: MULL DRILLING CO., INC.		LEASE: T. ADEN 'C'			WELL NO. 2		
ADDRESS:		COUNTY: KINGMAN		STATE: KS.			
CITY:		STATE:		SERVICE CREW: LESLEY, MARQUEZ, YOUNG			
AUTHORIZED BY:		JOB TYPE: CAW - 5 1/2" C.S.					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 1-29-12 DATE AM TIME	
275316	3					ARRIVED AT JOB AM 3:00	
27508-618043	3					START OPERATION AM 5:00	
						FINISH OPERATION AM 7:30	
						RELEASED AM 10:45	
						MILES FROM STATION TO WELL 45	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
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 Head*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 POZ	SK	190		2,090.00
CP 103	60/140 POZ	SK	50		600.00
CC 105	C-41P	lb	32		128.00
CC 111	SALT	lb	1054		527.00
CC 112	CEMENT FRICTION REDUCER	lb	48		328.00
CC 113	GYPSON	lb	900		660.00
CC 129	FIA-322	lb	80		600.00
CC 201	GILSONITE	lb	950		630.50
CF 607	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1		400.00
CF 608	AUTO FILL FLOAT, SIDE 5 1/2"	EA	1		360.00
		EA	10		1,100.00
CC 704	CLAYMAX	GAL	5		175.00
CC 151	MUDFLUSH	GAL	500		430.00

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: *Lesley*
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Jim Head*
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 04631 A

CONTINUATION

DATE _____ TICKET NO. _____

DATE OF JOB 1-29-2012	DISTRICT	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 MULL-DONNAN	LEASE TANEN C	WELL NO. 2					
ADDRESS		COUNTY RUGGIAN	STATE KS				
CITY		SERVICE CREW JESSE HARVEZ YOUNG					
AUTHORIZED BY		JOB TYPE					
EQUIPMENT	HRS	EQUIPMENT	HRS	EQUIPMENT	HRS	TRUCK CALLED	
3752	3					1-29-12 AM 4:00	
2789	3					ARRIVED AT JOB AM 5:00	
						START OPERATION AM 7:30	
						FINISH OPERATION AM 10:45	
						RELEASED AM 11:30	
						MILES FROM STATION TO WELL 28	

TERMS AND CONDITIONS: This contract is made in full satisfaction of all obligations and is delivered to the customer as an agent of the equipment lessor. The customer hereby acknowledges that this contract for services, materials, and equipment is subject to the terms and conditions appearing on the back of this document. No additional or substitute terms and conditions shall be added to this contract without the written consent of an officer of Basic Energy Services, L.P.

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

ITEM / PRICE / REFERENCE NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	PICKUP MILEAGE	MI	45		191.25
E 101	HEAVY EQUIPMENT MILEAGE	MI	90		630.00
E 113	BULK DELIVERY CHARGE	TON	457		736.60
CE 205	DEPTH CHARGE 400' - 500'	HR	1-4		2,570.00
CE 240	BLENDED SERVICE CHARGE	SK	240		336.00
CE 501	CASING SWIVEL RENTAL	EA	1		200.00
CE 504	PLUG CONTAINER CHARGE	DB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

CHEMICAL / ACID DATA		

SUB TOTAL	9,824.09
SERVICE & EQUIPMENT	% TAX ON S
MATERIALS	% TAX ON S
TOTAL	

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

Customer <i>MAL. DRILLING</i>	Lease No.	Date <i>2/16/12</i>
Lease <i>KADEN "C"</i>	Well # <i>2</i>	
Field Order # <i>05541A</i>	Station <i>PRATT, KS</i>	Casing <i>5 1/2</i>
Type Job <i>6 TANK SLICKWATER FRAC</i>	Formation <i>MISSISSIPPI</i>	Depth
		County <i>KIRKMAN</i>
		State <i>KS</i>
		Legal Description <i>18-32S-7u</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2 17 1/2</i>	Tubing Size	Shots/Ft <i>2</i>	<i>80 HOLES</i>	Acid		RATE	PRESS	ISIP <i>455</i>
Depth	Depth	From <i>4155</i>	To <i>4195</i>	Pre Pad		Max <i>50</i>	<i>902</i>	5 Min. <i>358</i>
Volume <i>97.49</i>	Volume	From	To	Pad <i>26500 GALLON SLICKWATER</i>		Min <i>50</i>	<i>746</i>	10 Min. <i>301</i>
Max Press <i>2000</i>	Max Press	From	To	Frac <i>19000 GALLON</i>		Avg <i>50</i>	<i>810</i>	15 Min. <i>261</i>
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To	<i>SLICKWATER</i>		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush <i>5700 GALLON SLICKWATER</i>		Gas Volume		Total Load <i>2701</i>

Customer Representative <i>Tim Hoxs</i>	Station Manager <i>DAVE SCOTT</i>	Treater <i>BAILEY/BARBER/WESTPHAL</i>
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Service Units	<i>21643</i>	<i>38950</i>	<i>38970</i>	<i>21959</i>	<i>19890</i>	<i>19901</i>	<i>50522</i>	<i>37710</i>	<i>37751</i>	<i>19899</i>	<i>19851</i>
Driver Names	<i>J.W.</i>	<i>MARR</i>	<i>BAILEY</i>	<i>JOHN</i>	<i>JAMES DANIEL</i>	<i>JOHNNIE</i>	<i>SCOTT</i>	<i>ERIC</i>	<i>FREDDIE</i>	<i>JASON</i>	<i>JR</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Notes
<i>2:27</i>	<i>4510</i>				<i>10:30 AM ON LOCATION Service Log SAFETY MEETING AND SET</i>
<i>2:29</i>	<i>55</i>			<i>25</i>	<i>PRIME UP AND PRESSURE TEST</i>
<i>2:31</i>	<i>392</i>		<i>55</i>	<i>14</i>	<i>START 26500 GALLON PAD</i>
<i>2:35</i>	<i>540</i>		<i>117</i>	<i>21</i>	<i>HOLE LOADED</i>
<i>2:36</i>	<i>648</i>		<i>142</i>	<i>30</i>	<i>ESTABLISH RATE</i>
<i>2:37</i>	<i>705</i>		<i>175</i>	<i>50</i>	<i>INCREASE RATE</i>
<i>2:47</i>	<i>797</i>		<i>631</i>	<i>50</i>	<i>START 14000 GALLON 1st 30/100</i>
<i>2:49</i>	<i>794</i>		<i>728</i>	<i>50</i>	<i>1st 30/100 ON BOTTOM</i>
<i>2:53</i>	<i>819</i>		<i>966</i>	<i>50</i>	<i>START 14000 GALLON 2nd 30/100</i>
<i>2:55</i>	<i>813</i>		<i>1023</i>	<i>50</i>	<i>2nd 30/100 ON BOTTOM</i>
<i>3:00</i>	<i>828</i>		<i>1302</i>	<i>50</i>	<i>START 7000 GALLON 3rd 30/100</i>
<i>3:02</i>	<i>827</i>		<i>1399</i>	<i>50</i>	<i>3rd 30/100 ON BOTTOM</i>
<i>3:03</i>	<i>827</i>		<i>1471</i>	<i>50</i>	<i>START 6000 GALLON 4th 30/100</i>
<i>3:05</i>	<i>820</i>		<i>1568</i>	<i>50</i>	<i>4th 30/100 ON BOTTOM</i>
<i>3:06</i>	<i>818</i>		<i>1617</i>	<i>50</i>	<i>START 5000 GALLON 5th 30/100</i>
<i>3:08</i>	<i>807</i>		<i>1714</i>	<i>50</i>	<i>5th 30/100 ON BOTTOM</i>
<i>3:09</i>	<i>805</i>		<i>1738</i>	<i>50</i>	<i>START 5000 GALLON 6th 30/100</i>
<i>3:11</i>	<i>798</i>		<i>1835</i>	<i>50</i>	<i>6th 30/100 ON BOTTOM</i>
<i>3:11</i>	<i>799</i>		<i>1861</i>	<i>50</i>	<i>START 5000 GALLON 7th 30/100</i>
<i>3:13</i>	<i>791</i>		<i>1958</i>	<i>50</i>	<i>7th 30/100 ON BOTTOM</i>
<i>3:14</i>	<i>793</i>		<i>1983</i>	<i>50</i>	<i>START 8000 GALLON 8th 30/100</i>
<i>3:15</i>	<i>780</i>		<i>2080</i>	<i>50</i>	<i>8th 30/100 ON BOTTOM</i>

Customer <i>Mull Drilling</i>	Lease No.	Date <i>2/16/12</i>
Lease <i>FADEN "C"</i>	Well # <i>2</i>	
Field Order # <i>OSSHIA</i>	Station <i>Pratt, KS</i>	Casing <i>5 1/2</i>
Type Job <i>6 TANK SLICKWATER FRAC</i>	Formation <i>MISSISSIPPI</i>	Depth
	County <i>KINGMAN</i>	State <i>KS</i>
	Legal Description <i>18-30S-7W</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2 17#</i>	Tubing Size	Shots/Ft <i>2</i>	<i>80 HOLES</i>	Acid		RATE	PRESS	ISIP <i>455</i>
Depth	Depth	From <i>4155</i>	To <i>4195</i>	Pre Pad		Max <i>50</i>	<i>902</i>	5 Min. <i>358</i>
Volume <i>47,49</i>	Volume	From	To	Pad <i>26,500 GALLON SLICKWATER</i>		Min <i>50</i>	<i>746</i>	10 Min. <i>301</i>
Max Press <i>2000</i>	Max Press	From	To	Frac <i>1000 GALLON</i>		Avg <i>50</i>	<i>810</i>	15 Min. <i>261</i>
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To	<i>SLICKWATER</i>		HHP Used <i>6</i>		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush <i>5000 GALLON SLICKWATER</i>		Gas Volume		Total Load <i>2701</i>

Customer Representative <i>Tim Hoss</i>	Station Manager <i>DAVE SCOTT</i>	Treater <i>BAILEY/BARBER/WESTERMAN</i>
Service Units <i>19902 19852</i>	<i>19833 19853</i>	<i>19892</i>
Driver Names <i>TOO</i>	<i>PRATT</i>	<i>BRYAN</i>
	<i>DUSTIN</i>	<i>JAKE</i>
	<i>EB</i>	<i>NICK</i>
		<i>COLT</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:17</i>	<i>771</i>		<i>2181</i>	<i>50</i>	<i>START 2000 GALLON 9th 16/30</i>
<i>3:19</i>	<i>763</i>		<i>2278</i>	<i>50</i>	<i>9th 16/30 ON BOTTOM</i>
<i>3:21</i>	<i>765</i>		<i>2379</i>	<i>50</i>	<i>START 4000 GALLON 1st 16/30</i>
<i>3:23</i>	<i>764</i>		<i>2476</i>	<i>50</i>	<i>1st 16/30 ON BOTTOM</i>
<i>3:23</i>	<i>765</i>		<i>2479</i>	<i>50</i>	<i>START 3000 GALLON 15th 16/30 RESIN</i>
<i>3:25</i>	<i>746</i>		<i>2576</i>	<i>50</i>	<i>15th 16/30 RESIN ON BOTTOM</i>
<i>3:25</i>	<i>744</i>		<i>2577</i>	<i>50</i>	<i>START 1000 GALLON SWEEP</i>
<i>3:26</i>	<i>804</i>		<i>2601</i>	<i>50</i>	<i>START 4000 GALLON FLUSH</i>
<i>3:28</i>	<i>455</i>		<i>2701</i>		<i>SHUTDOWN JOB COMPLETE</i>

*THANKS PRATT FRAC CREW
BARBER/BAILEY/WESTERMAN*



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

TIME ON: _____
TIME OFF: _____

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

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

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

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

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

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

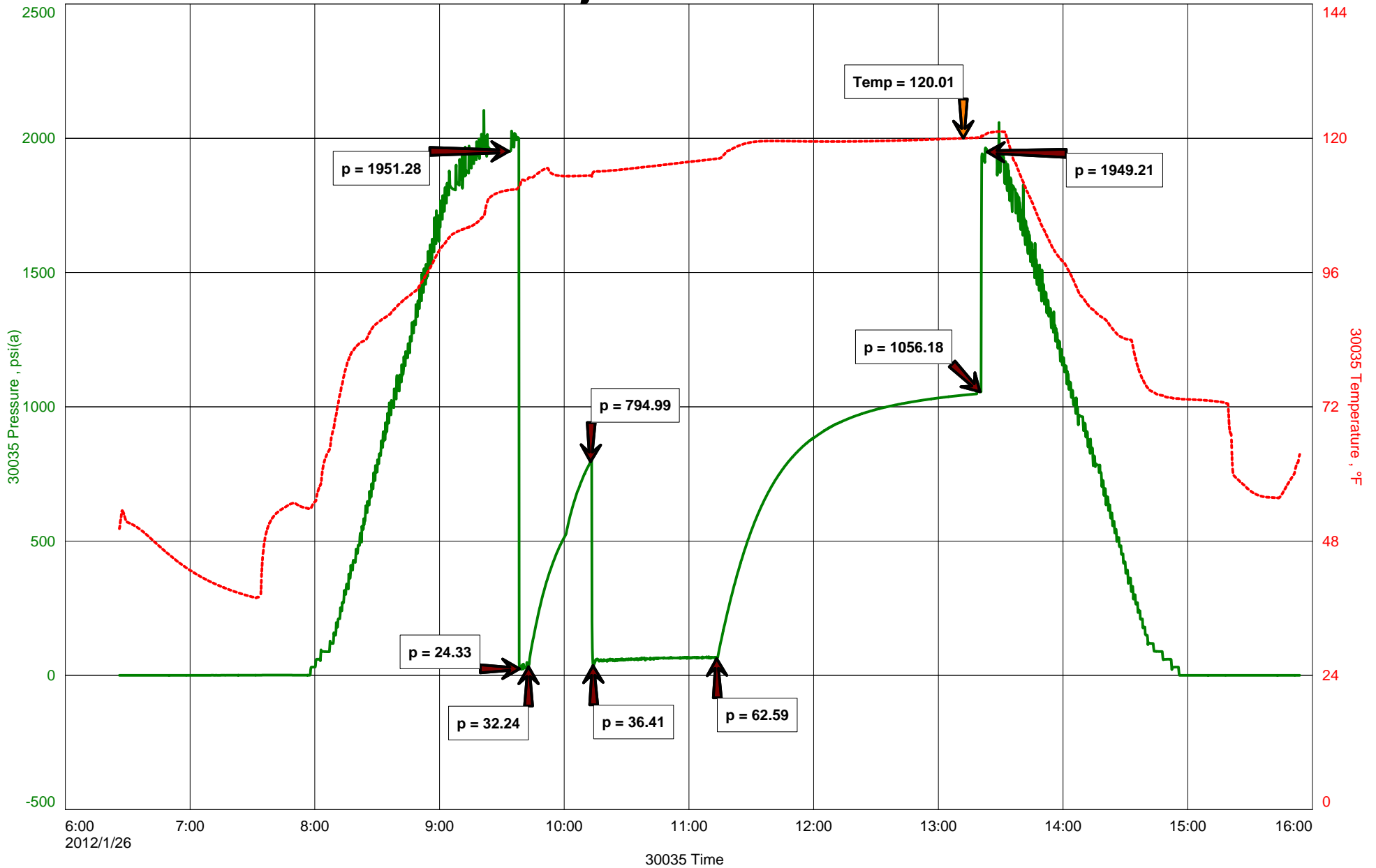
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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

Mull Drilling Co Inc.
DST # 1 4134-4155' Mississippi
Start Test Date: 2012/01/26
Final Test Date: 2012/01/26

Tjaden "C" # 2
Formation: DST # 1 4134-4155' Mississippi
Pool: Wildcat

Tjaden "C" # 2



Diamond Testing

General information Report

General Information

Company Name Mull Drilling Co Inc.

Contact	Ernie Morrison	Job Number	
Well Name	Tjaden "C" # 2	Representative	Jacob McCallie
Unique Well ID	DST # 1 4134-4155' Mississippi	Well Operator	Mull Drilling Co Inc.
Surface Location	SEC 18-30S-7W Kingman County	Report Date	2012/01/26
Well License Number		Prepared By	Jacob McCallie
Field	Spivey-Grabs-Basil		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	DST # 1 4134-4155' Mississippi		
Well Fluid Type	01 Oil	Start Test Time	06:26:00
		Final Test Time	15:54:00
Start Test Date	2012/01/26		
Final Test Date	2012/01/26		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
3599 GIP
181' Oil Specked Gas Cut Mud 3% GAS 97% MUD
181' TOTAL FLUID

TOOL SAMPLE:
Sample blew out.



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

TIME ON: _____
TIME OFF: _____

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

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

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

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

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

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

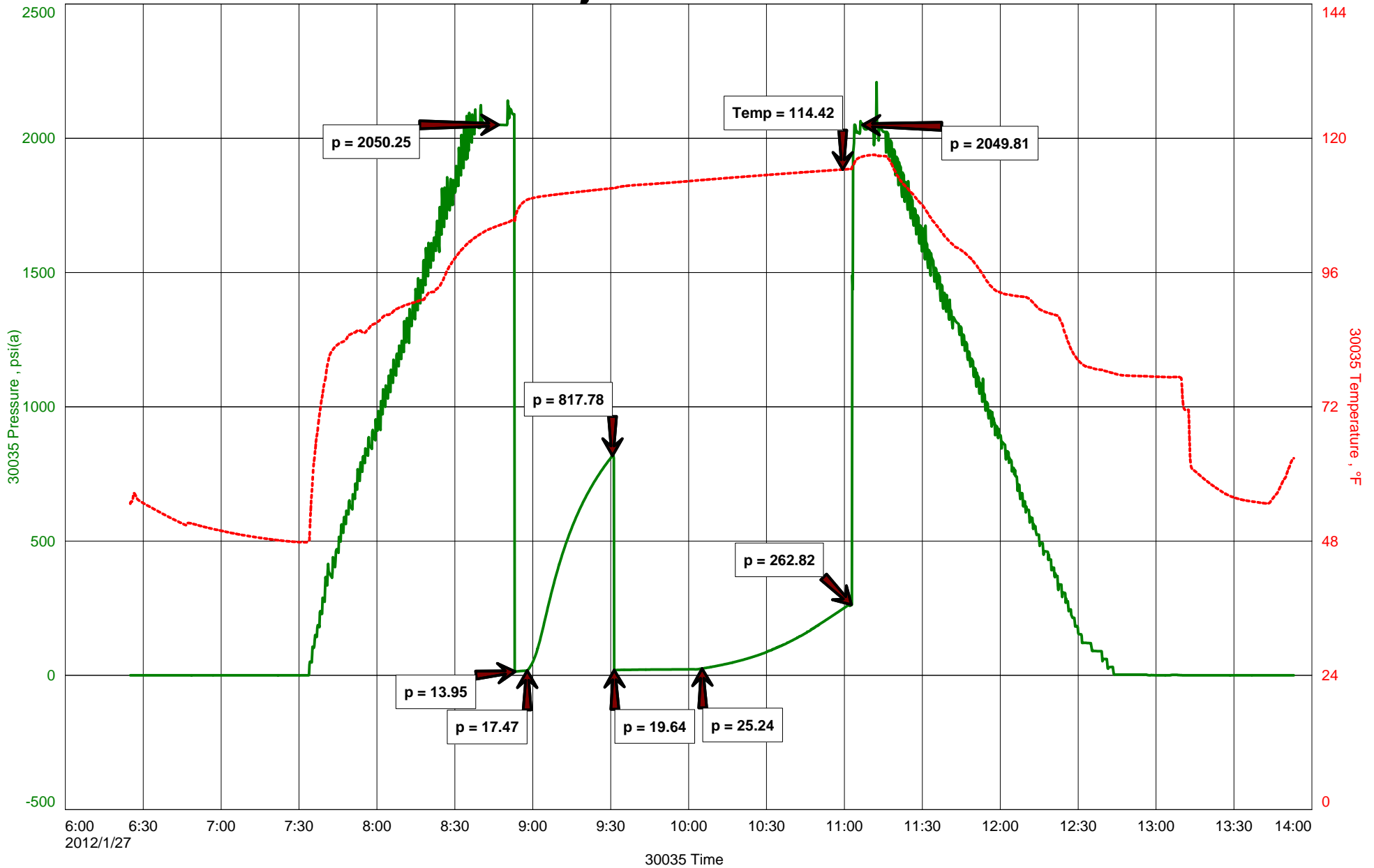
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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

Mull Drilling Co Inc.
DST # 2 4230-4330' Mississippi
Start Test Date: 2012/01/27
Final Test Date: 2012/01/27

Tjaden "C" # 2
Formation: DST # 2 4230-4330' Mississippi
Pool: Wildcat
Job Number: S0081

Tjaden "C" # 2



Diamond Testing

General information Report

General Information

Company Name Mull Drilling Co Inc.

Contact	Ernie Morrison	Job Number	S0081
Well Name	Tjaden "C" # 2	Representative	Jacob McCallie
Unique Well ID	DST # 2 4230-4330' Mississippi	Well Operator	Mull Drilling Co Inc.
Surface Location	SEC 18-30S-7W Kingman County	Report Date	2012/01/27
Well License Number		Prepared By	Jacob McCallie
Field	Spivey-Grabs-Basil		
Well Type	Vertical		

Test Type	Drill Stem Test	Start Test Time	06:25:00
Formation	DST # 2 4230-4330' Mississippi	Final Test Time	13:53:00
Well Fluid Type	01 Oil		
Start Test Date	2012/01/27		
Final Test Date	2012/01/27		
Gauge Name	30035		
Gauge Serial Number			

Test Results

RECOVERED:
5' DM 100% DM
5' TOTAL FLUID

TOOL SAMPLE:
100% DM

MACKLIN M. ARMSTRONG

Geologist

License Number 743

316-209-5047

Scale 1:240 Imperial

Well Name:	Tjaden 'C' No. 2	
Surface Location:	Sec 18 T30S R7W	
Bottom Location:	693' FNL and 712' FEL	
API:	15-095-22242	
License Number:	5144	
Spud Date:	1/20/2012	Time: 7:45 PM
Region:	Kingman County	
Drilling Completed:	1/28/2012	Time: 8:27 AM
Surface Coordinates:		
Bottom Hole Coordinates:		
Ground Elevation:	1468.00ft	
K.B. Elevation:	1480.00ft	
Logged Interval:	2900.00ft	To: 4602.00ft
Total Depth:	4600.00ft	
Formation:	Mississippi	
Drilling Fluid Type:	Chemical/Fresh Water Gel	

OPERATOR

Company:	Mull Drilling Company	
Address:	1700 North Waterfront Parkway Wichita, Kansas 67206	
Contact Geologist:	Ernie Morrison	
Contact Phone Nbr:	316-264-6366	
Well Name:	Tjaden 'C' No. 2	
Location:	Sec 18 T30S R7W	API: 15-095-22242
Pool:	Oil	Field: Spivey-Grabs-Basil
State:	Kansas	Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: 98° 8' 0.166"
N/S Co-ord:
E/W Co-ord:

Latitude: 37° 26' 26.545"

LOGGED BY

Company: Macklin M. Armstrong
Address: 100 South Ridge Road
Wichita, Kansas 67209

Phone Nbr: 316-209-5047

Logged By: Macklin M. Armstrong

Name: Kansas License Number 743

CONTRACTOR

Contractor: Duke Drilling

Rig #: 7

Rig Type: mud rotary

Spud Date: 1/20/2012

TD Date: 1/28/2012

Rig Release: 1/29/2012

Time: 7:45 PM

Time: 8:27 AM

Time: 10:45 AM

ELEVATIONS

K.B. Elevation: 1480.00ft

Ground Elevation: 1468.00ft

K.B. to Ground: 12.00ft

NOTES

Date	Depth at 7 am	Activity
1-20-12	MIRU	Spud at 7:45 pm
1-21-12	96	Drilling
1-22-12	235	WOC
1-23-12	1700	Drilling
1-24-12	2920	TOH to look for hole in pipe
1-25-12	3881	TOH to replace bit
1-26-12	4155	TIH for DST No. 1
1-27-12	4330	TIH for DST No. 2
1-28-12	4560	Drilling
1-29-12	4600	Set 5 1/2"

Surface Casing: 8 5/8" 20# at 227
Production Casing: 5 1/2" 17# at 4601

Deviation:	96 - 1/2°	235 - 1/2°	521 - 3/4°	1020 - 1°
	1209 - 1°	1397 - 1/2°	1617 - 1/4°	1898 - 1°
	2118 - 1/2°	2307 - 1/2°	2527 - 3/4°	2716 - 1/2°
	3064 - 1/2°	3408 - 3/4°	3723 - 1°	3881 - 1°
	4155 - 1°	4330 - 1/4°	4600 - 1°	

Bit Record:	Make	Type	Depth In	Depth Out	Hours
	HTC	DP506F	235	3881	43
	HTC	GX20C	3881	4600	34 1/4

Drill Stem Tests:

DST No. 1 4135 to 4155 Formation: Mississippi
5-30-60-120
Recovery: 181' Oil Specked Gas Cut Mud (3% gas, 97% mud)
IHP 1951 FHP 1949
IFP 24-32 FFP 36-63
ISIP 795 FSIP 1056
Temp 120°

DST No. 2 4230 to 4330 Formation: Mississippi
5-30-30-60

Recovery: 5' Drilling Mud
 IHP 2050 FHP 2050
 IFP 14-17 FFP 20-25
 ISIP 818 FSIP 263
 Temp 114°

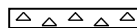



Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Heebner	3126	3128	-1648	-4	-12	-3
Douglas	3159	3157	-1677	-1	-8	-3
Lansing	3349	3348	-1868	-7	-19	+2
Kansas City	3624	3624	-2144		-5	-5
Stark	3774	3775	-2295		-4	-7
Hertha	3810	3810	-2330		-5	-7
B/Kansas City	3888	3889	-2409		-2	-13
Cherokee Shale	4021	4020	-2540		+3	-6
Mississippi	4146	4146	-2666	+1	-5	-8
Kinderhook Shale	4394	4394	-2914			
Woodford Shale	4476	4475	-2995			
Viola	4505	4503	-3023			
Simpson Sand	4551	4551	-3071			
Total Depth	4600	4602	-3122			

Well 1: Mull Drilling Company Tower-Wells No. 1 NE SE NW Sec 18 T30S R7W
 Well 2: McCoy Petroleum Company Wells-Tower 'A' No. 1 SE SE NW Sec 18 T30S R7W
 Well 3: Drilling & Exploration Company Kohman No. 1 NE SE SW Sec 18 T30S R7W

Pile was set to further test the Mississippi zone.

Respectfully submitted,
 Macklin M. Armstrong

ROCK TYPES




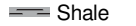
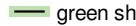


 Cht	 Lmst fw7>	 Carbon Sh
 Dolprim	 shale, gry	 Ss

ACCESSORIES

MINERAL

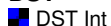
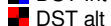

- Sandy
- △ Chert White

STRINGER




-  Limestone
-  Sandstone
-  Siltstone
-  Shale
-  green shale
-  red shale
-  carb shale

OTHER SYMBOLS

DST

-  DST Int
-  DST alt
-  Core

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

Curve Track #1	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	Comment
ROP (min/ft)  Gamma (API)  Cal (in) 	Cored Interval DST Interval					

Mull Drilling Company
Tjaden 'C' No. 2
693' FNL and 712' FWL
Sec 18 T30S R7W
Kingman County, Kansas
GL 1468 KB 1480

Geologist on Loc at 2920'
8:40 am 1-24-12

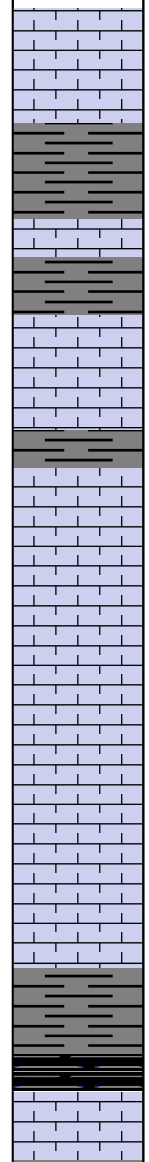
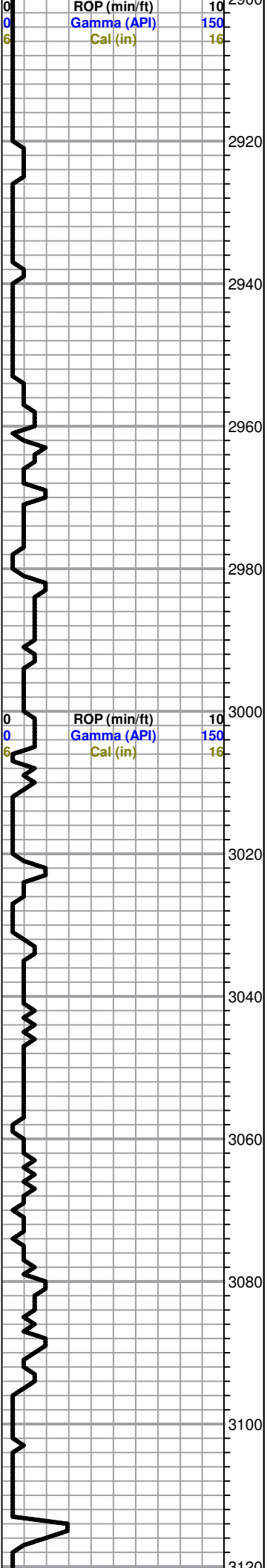
Mud Program:
Mud Co/Service Mud, Inc.
Chemical Gel/Premix

Testing: Diamond Testing

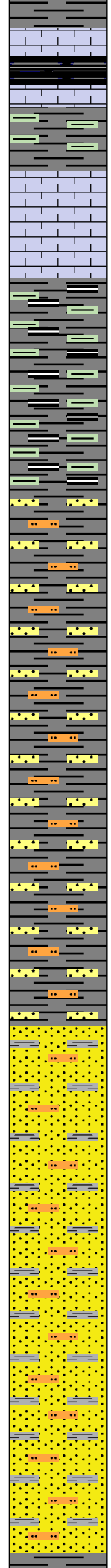
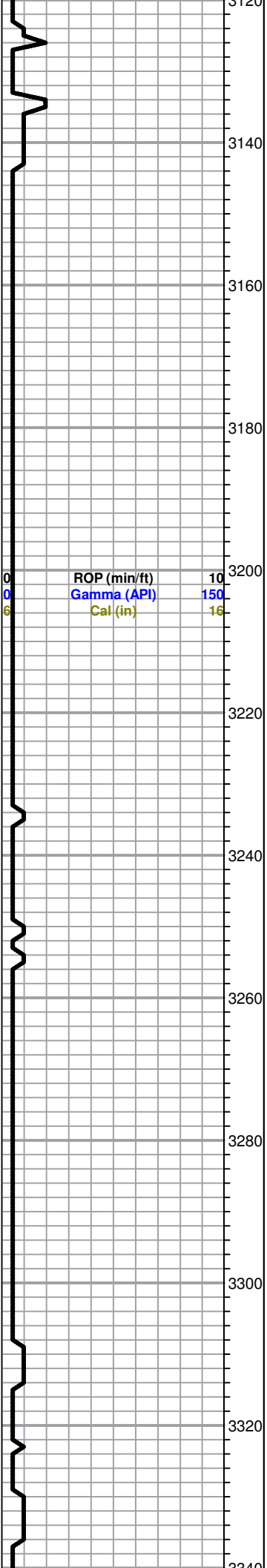
Sample Cuttings:
KGS Well Sample Library

Electric Logs:
Superior Well Services
DIL
CNL/CDL
Sonic
MEL

Deviation:
96' - 1/2°
235' - 1/2°
521' - 3/4°
1020' - 1°
1209' - 1°
1397' - 1/2°
1617' - 1/4°
1898' - 1°
2118' - 1/2°
2307' - 1/2°
2527' - 3/4°
2716' - 1/2°
3064' - 3/4°
3408' - 1°
3723' - 1°
3881' - 1°
4155' - 1°
4330' - 1/4°
4600' - 1°

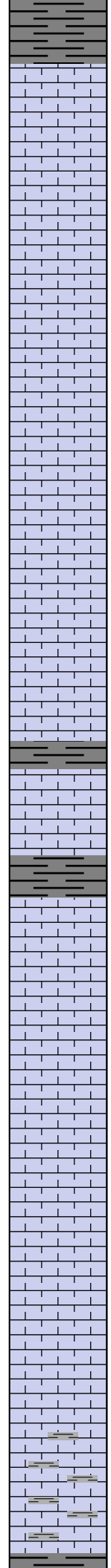
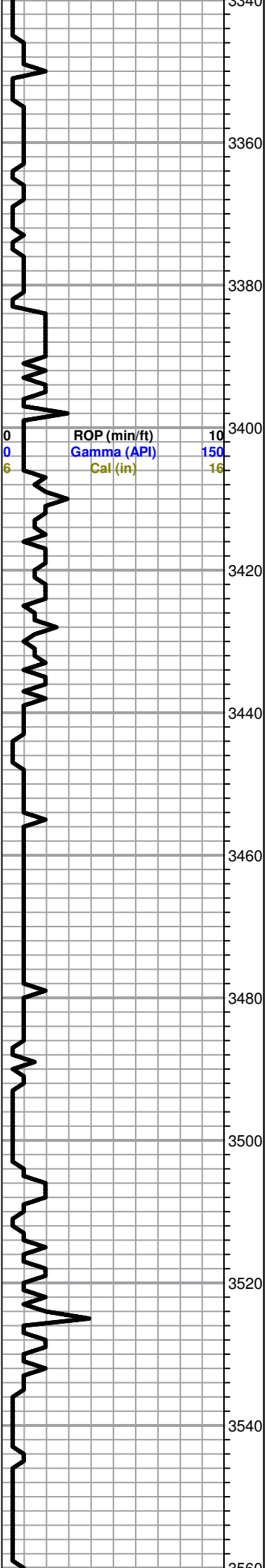


Ls-crm fxln mhd no por
Sh-gry/dk gry
Ls-crm fxln mhd no por
Sh-gry/dk gry
Ls-crm fxln mhd no por
Sh-gry/dk gry
Ls-crm fxln mhd pr interxln por nsfo
Ls-crm fxln mhd no por
Ls-AA
Ls-crm fxln mhd/dns no por
Ls-crm/lt gry fxln mhd/dns no por
Ls-lt gry/crm fxln soft pr interxln por
Sh-gry/dk gry
Sh-blk carb
Ls-lt gry/crm fxln dns no por
Ls-lt gry/crm fxln soft pr interxln por nsfo



Sh-gry/dk gry
 Ls-gry/brn fxln dns no por
 -----Heebner 3128 -1648-----
 Ls-gry/brn fxln dns no por
 Sh-gry/kd gry/gry grn
 Ls-gry/brn fxln mhd no por
 Ls-AA
 -----Douglas 3159 -1679-----
 Sh-gry/dk gry/blk/gry grn/grn
 Sh-AA
 Shgry/dk gry/gry grn/sm blk
 Sh-gry/dk gry/gry grn sm Ss-gry vfgrn sub ang to sub rnd sl fri
 to tite cement sl gils and Siltstone-gry
 Sh-AA sm Ss and Siltstone
 Sh-AA sm Ss and Siltstone
 Sh-AA sm Ss and Siltstone
 Sh-gry/dk gry/gry grn sm Ss-gry fgrr sub ang to sub rnd sl fri
 to tite cement sl gils and Siltstone-gry
 Sh-AA sm Ss and Siltstone
 Sh-AA sm Ss and Siltstone
 Ss-gry/lt gry f/mgrn sub ang to sub rnd sl fri to tite cement sl gils
 sm Sh-gry/dk gry and Siltstone-gry/dk gry
 Ss-AA sm Sh and Siltstone
 Ss-AA sm Sh and Siltstone
 Ss-gry/lt gry f/mgrn sub and to sub rnd sl fri to tite cement sl gils
 sm Sh-gry/dk gry and Siltstone-gry/dk gry
 Ss-AA sm Sh and Siltstone
 Ss-AA sm Sh and Siltstone
 Ss-AA sm Sh and Siltstone

ROP (min/ft) 10
 Gamma (API) 150
 Cal (in) 16



Sh-gry/dk gry

-----Lansing 3349 -1869-----

Ls-crm/tan fxln mhd no por

Ls-tan fxln mhd no por

Ls-AA

Ls-AA

Ls-tan fxln dns no por

Ls-tan/crm fxln dns no por

Ls-crm/lt gry fxln soft/mhd fr interxln por nsfo

Ls-crm/lt gry mhd no por

Ls-AA

Ls-crm/lt gry fxln mhd no por

Ls-AA

Sh-gry/dk gry

Ls-lt gry/gry fxln mhd no por

Sh-gry/dk gry

Ls-lt gry/gry fxln mhd no por

Ls-AA

Ls-lt gry/gry fxln mhd no por

Ls-lt gry/gry fxln soft/mhd fr interxln por nsfo

Ls-gry fxln dns no por

Ls-gry fxln mhd fr interxln por nsfo

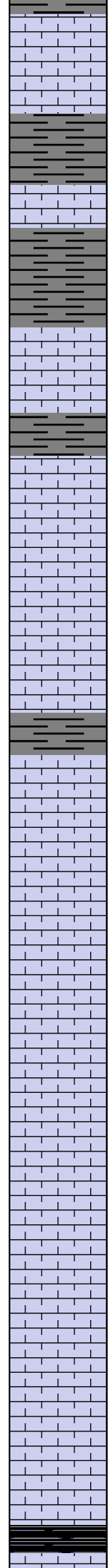
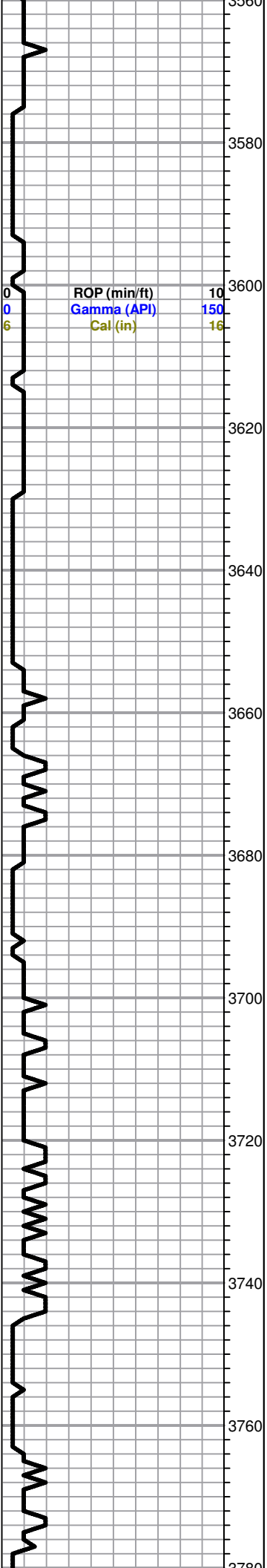
Ls-gry fxln mhd/dns no por

Ls-AA

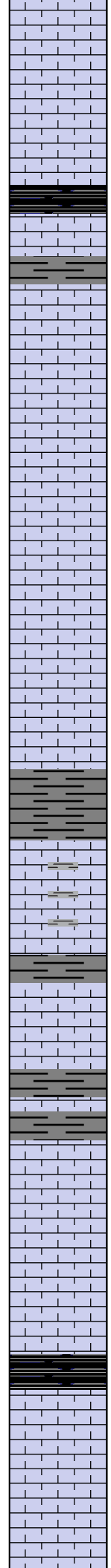
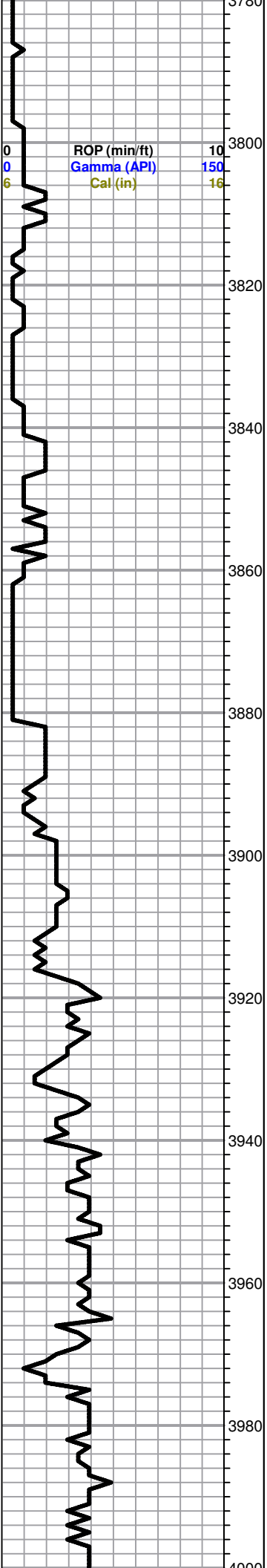
Ls-gry/lt gry fxln mhd no por

Ls-gry fxln mhd shly no por

Ls-AA



Sh-gry/dk gry
 Ls-gry/gry brn fxln mhd no por
 Ls-AA
 Sh-gry/dk gry/blk
 Ls-gry/gry brn fxln mhd no por
 Sh-gry/dk gry/blk
 Sh-AA
 Ls-gry/gry brn fxln mhd no por
 Ls-AA
 Sh-gry/dk gry/blk
 -----**Kansas City 3624 -2144**-----
 Ls-crm fxln mhd no por
 Ls-crm fxln soft fr interxln por nsfo
 Ls-AA
 Ls-AA
 Ls-crm fxln mhd no por
 Sh-gry/dk gry
 Ls-crm fxln mhd no por
 Ls-AA
 Ls-crm/tan f/mxln soft fr interxln por nsfo
 Ls-crm/tan f/mxln soft/mhd pr interxln por nsfo
 Ls-crm/tan f/mxln soft/mhd pr interxln por nsfo
 Ls-AA
 Ls-tan/brn fxln mhd no por
 Ls-AA
 Ls-AA
 Ls-tan/brn fxln soft fr interxln por nsfo
 Ls-AA
 Ls-tan/brnfxln mhd no por
 -----**Stark 3774 -2294**-----
 Sh-blk carb



Ls-tan/crm/brn fxln soft fr interxln por nsfo

Ls-AA

Ls-tan/crm/brn fxln mhd no por

Sh-blk carb

-----**Hertha 3810 -2330**-----

Ls-tan/crm/brn fxln mhd no por

Sh-gry/dk gry

Ls-tan/brn fxln soft fr interxln por nsfo

Ls-AA

Ls-AA

Ls-tan/brn/gry fxln mhd/dns no por

Ls-AA

Ls-gry fxln mhd fr interxln por nsfo

Ls-AA

Ls-gry fxln mhd/dns no por

-----**B/Kansas City 3888 -2408**-----

Sh-gry/dk gry/blk

Ls-gry fxln mhd/dns sl shly no por

Ls-AA

Sh-gry/dk gry

Ls-gry/brn fxln dns no por

Ls-AA

Sh-gry/dk gry

Sh-gry/dk gry

Ls-tan/brn fxln mhd no por

Ls-AA

Ls-tan/brn/gry f/mxln mhd no por

Ls-AA

Sh-blk carb

Ls-gry/brn fxln dns no por

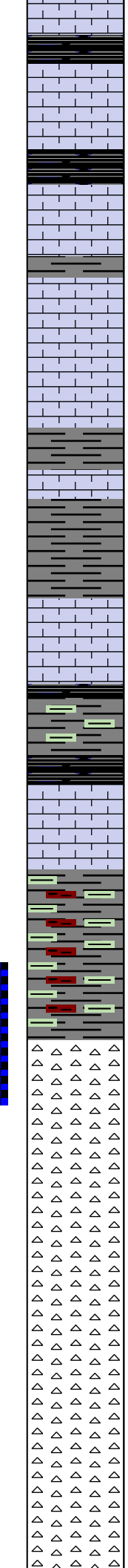
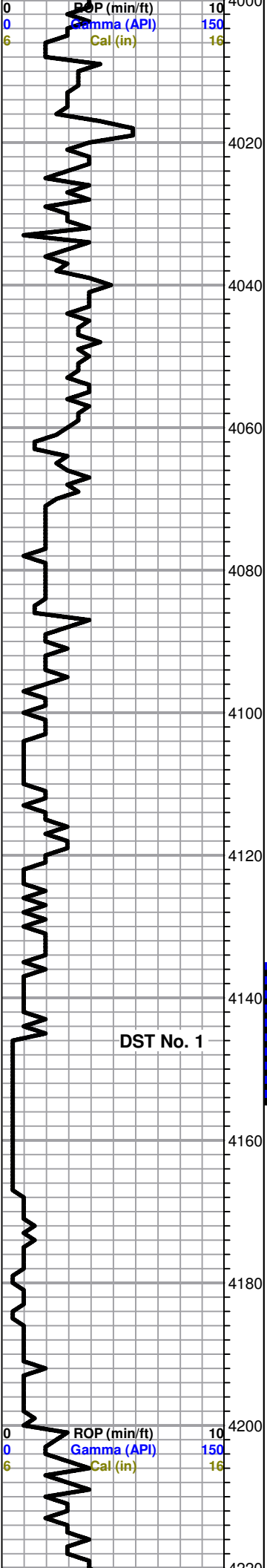
Ls-AA

Ls-gry/tan fxln mhd no por

Ls-gry/tan/brn fxln dns no por

Bit Trip at 3881'
 Replaced PRC bit with roller cone bit

Mud Data at 3921'
 1:30 pm 1-25-12
 Wt 8.9
 Vis 49
 WL 8.8
 pH 11
 Chl 3000
 Sol 4.1%
 YP 15
 LCM 3#



Ls-gry/tan/brn fxln dns no por
 Sh-blk carb
 Ls-tan/gry fxln mhd/dns no por
 Ls-tan/gry fxln dns no por
 -----Cherokee Shale 4021 -2541-----
 Sh-blk carb
 Ls-gry fxln mhd/dns no por
 Ls-AA
 Sh-gry/dk gry
 Ls-gry fxln dns no por
 Ls-AA
 Ls-gry/brn fxln dns no por
 Ls-AA
 Sh-gry/dk gry
 Ls-gry/brn fxln dns no por
 Sh-gry/dk gry
 Sh-AA
 Ls-gry/gry brn fxln dns no por
 Ls-AA
 Sh-blk carb
 Sh-gry/dk gry/gry grn/blk
 Sh-blk carb
 Ls-gry/gry brn fxln dns no por
 Sh-gry/dk gry/grn/mar/yel
 Sh-AA
 Sh-AA
 -----Mississippi 4146 -2666-----
 Cht-wt opac weat and trip pr vug por brn sat stn fr odor gd cut gsfo and gas
 Cht-wt opac weat and trip brn sat stn fr/gd vug por fr odor gsfo and gas
 Cht-AA
 Cht-wt fsh opac nsfo or gas and Cht-wt opac weat and trip fr vug por spt brn stn faint odor fsfo
 Cht-AA
 Cht-AA
 Cht-wt/gry wt sm lt gry fsh opac no por no stn sm Cht-wt opac weat and trip sct brn stn nsfo or gas
 Cht-AA

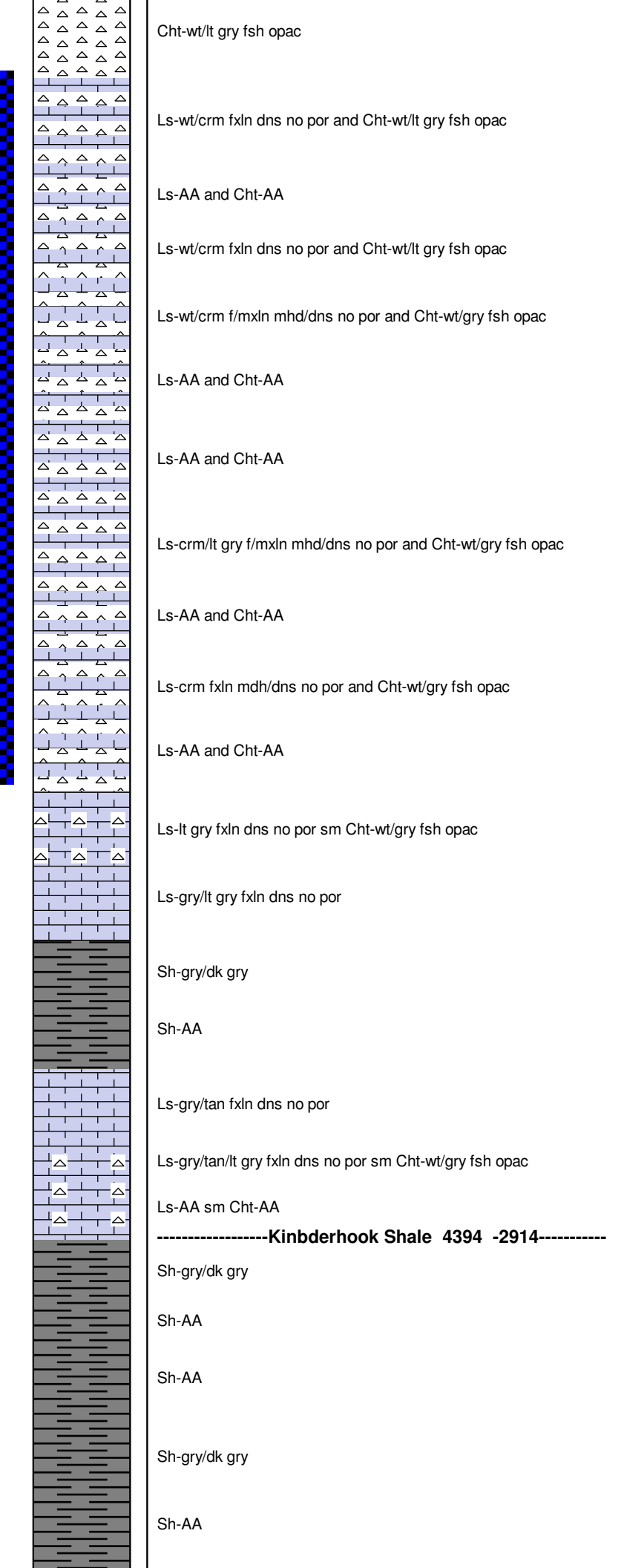
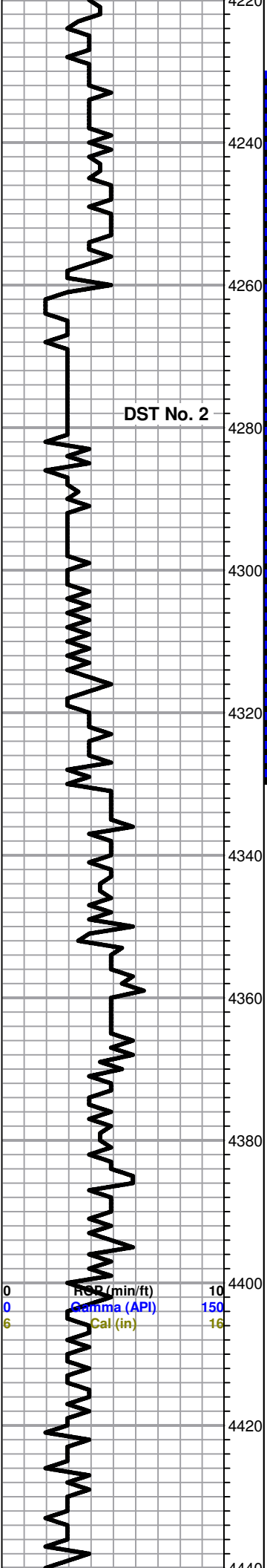
DST No. 2 4135 to 4155
 5-30-60-120
 1st Open: BOB in 2"
 2nd Opeb: BOB Immed
 Rec: 181' Oil Specked GCM
 (3% gas, 97% mud)
 IHP 1951 FHP 1949
 IFP 24-32 FFP 36-63
 ISIP 795 FSIP 1056
 Temp 120 deg

CFS at 4155' - 60"

Pulled 15 stand Short Trip at 4155' then Cir for Test - 60"

Mud Data at 4155'
 11 am 1-26-12
 Wt 9.2
 Vis 49
 WL 8.8
 pH 11.5
 Chl 5000
 Sol 6.1%
 YP 17
 LCM 2#

DST No. 1



Cht-wt/lt gry fsh opac

Ls-wt/crm fxln dns no por and Cht-wt/lt gry fsh opac

Ls-AA and Cht-AA

Ls-wt/crm fxln dns no por and Cht-wt/lt gry fsh opac

Ls-wt/crm f/mxln mhd/dns no por and Cht-wt/gry fsh opac

Ls-AA and Cht-AA

Ls-AA and Cht-AA

Ls-crm/lt gry f/mxln mhd/dns no por and Cht-wt/gry fsh opac

Ls-AA and Cht-AA

Ls-crm fxln mdh/dns no por and Cht-wt/gry fsh opac

Ls-AA and Cht-AA

Ls-lt gry fxln dns no por sm Cht-wt/gry fsh opac

Ls-gry/lt gry fxln dns no por

Sh-gry/dk gry

Sh-AA

Ls-gry/tan fxln dns no por

Ls-gry/tan/lt gry fxln dns no por sm Cht-wt/gry fsh opac

Ls-AA sm Cht-AA

-----Kinbderhook Shale 4394 -2914-----

Sh-gry/dk gry

Sh-AA

Sh-AA

Sh-gry/dk gry

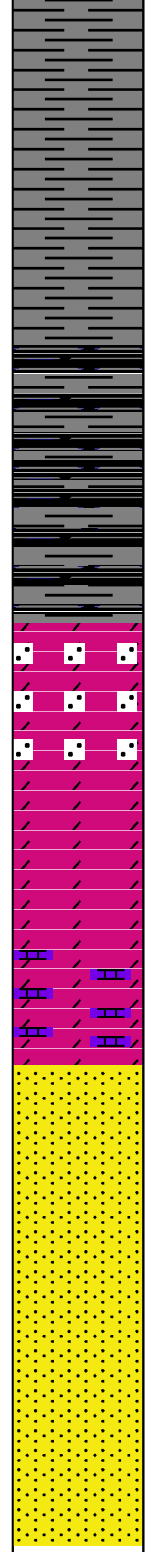
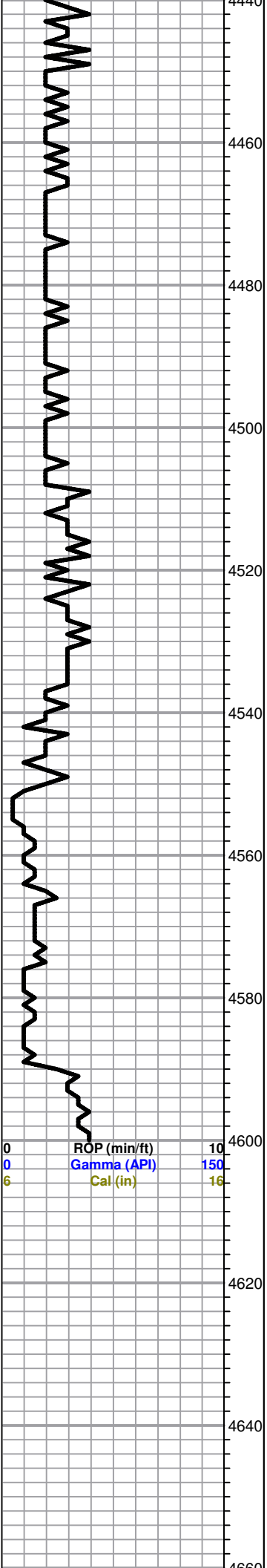
Sh-AA

DST NO. 2 4230 to 4330
 5-30-30-60
 1st Open: Weak blow
 2nd Open: Weak surface,
 blow died in 5 min
 Rec: 5' Mud
 IHP 2050 FHP 2050
 IFP 14-17 FFP 20-25
 ISIP 818 FSIP 263
 Temp 114 deg

CFS at 4330' - 60"

Mud Data at 4330'
 12:45 pm 1-27-12
 Wt 9.2
 Vis 47
 WL 8.8
 pH 10.5
 Chl 6400
 Sol 6.7%
 YP 14
 LCM 2#

0 Rt (min/ft) 10
 0 Gamma (API) 150
 6 Cal (in) 16



Sh-AA

Sh-gry/dk gry

Sh-AA

-----Woodford Shale 4476 -2996-----

Sh-gry/dk gry/blk

Sh-AA

Sh-AA

-----Viola 4505 -3025-----

Dolo-lt gry/brn suc dns sl sdy no por nsfo or gas

Dolo-AA

Dolo-lt gry/brn fsuc dns no por

Dolo-AA

Dolo-lt gry fxln to fsuc dns sl lmy no por

Dolo-AA

-----Simpson Sand 4551 -3071-----

Ss-wt/gry cgrn ang to sub ang tite cement nsfo or gas

Ss-wt/gry mgrn sub ang tite cement sl gils nsfo or gas

Ss-wt/lt gry f/mgrn sub ang tite cement sl gils nsfo or gas

Ss-AA

Ss-wt/fgrn sub ang tite cement

-----RTD 4600 -3120-----

Finished Drilling at 8:27 am
on 1-28-12 CFS - 60"

Pulled 10 stand short trip at
4600' then Cir for Log - 90"

Finished Logging at 7 pm
on 1-28-12

