



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1175464
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: _____

1175464

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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)* _____

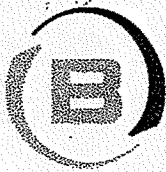
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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	Haddon 2-35
Doc ID	1175464

Tops

Name	Top	Datum
Anhydrite	698	+ 1178
B/Anhydrite	719	+ 1157
Heebner Shale	3116	- 1240
Brown LS	3236	- 1360
Lansing	3252	- 1376
Stark Shale	3427	- 1551
B/KC	3474	- 1598
Arbuckle	3526	- 1650



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 09128 A

35-205-13W

DATE _____ TICKET NO. _____

DATE OF JOB 9-23-13		DISTRICT Pratt, Kansas		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 Company, Inc.		LEASE Haddon		WELL NO. 2-35					
ADDRESS		COUNTY Barton		STATE Kansas					
CITY		STATE		SERVICE CREW C Messick, M Mattal, J Pierson					
AUTHORIZED BY		JOB TYPE: C. N. W. - Surface							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37216	.75						9-23-13	PM	5:00
						ARRIVED AT JOB		AM	8:00
27463	.75					START OPERATION		AM	8:45
						FINISH OPERATION		AM	9:30
19831-19862	.75					RELEASED	9-23-13	AM	9:45
						MILES FROM STATION TO WELL			50

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
C P 103	60/40 Poz Blend Cement	sh	275	\$	3,300.00
CC 102	Cellflite	Lb	69	\$	255.30
CC 109	Calcium Chloride	Lb	711	\$	746.55
CF 153	Wooden Plug, 8 5/8"	ea	1	\$	160.00
F 100	Pickup Mileage	mi	50	\$	212.50
F 101	Heavy Equipment Mileage	mi	100	\$	700.00
F 113	Bulk Delivery	tn	593	\$	948.00
CE 200	Cement Pump: 0 Feet To 500 Feet	hrs	4	\$	1,000.00
CE 240	Blending and Mixing Service	sh	275	\$	385.00
CE 504	Plug Container	Job	1	\$	250.00
S 003	Service Supervisor	hrs	8	\$	175.00

CHEMICAL / ACID DATA:			

SUB TOTAL
\$ 6,099.26

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)

Customer Duke Drilling Company, Inc.	Lease No. nc.	Date 9-23-13
Lease Haddon	Well # 2-35	
Field Order # 9123	Station Pratt, Kansas	Casing 8" 20lb
Type Job C.N.W. surface	Depth 288 Feet	County Barton
	Formation	State Kansas
		Legal Description 35-205-13W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8" 20lb	Tubing Size 6"	Shots/Ft 275		API 60/40 Poz	with 26 Gal.	RATE 1.36 C.C.	PRESS 1.4	ISIP 25 Lb./stk cell fluid
Depth 288 Feet	Depth	From	To	Rate 13.8 Lb./Gal.	Max 6.87 Gal./stk.			5 Min.
Volume 19.3 Bbl.	Volume	From	To	Rate	Min			10 Min.
Max Press 300 PSI	Max Press	From	To	Rate	Avg			15 Min.
Well Connection Muc on liner	Annulus Vol.	From	To	Rate	HHP Used			Annulus Pressure
Plug Depth 273	Packer Depth	From	To	Flush 18 Bbl. Fresh water	Gas Volume			Total Load

Customer Representative Steve Stephens	Station Manager Kevin Gordley	Treater Clarence R. Messick
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Service Units	37216	27463	19831	19862					
Driver Names	Messick	Matal	Pierzon						

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:30					Trucks on location and hold safety meeting.
8:00	Duke	Drilling	start	torun 7 Joints	20 Lb/Ft 8 5/8" casing.
8:40					Casing in well Circulate for 5 minutes
8:50	250			5	Start Fresh water pre-flush
	275		10	5	Start mixing 275 sacks 60/40 Poz
	0-		80		Stop pumping shut in well Release Wooden Plug. Open well
9:04	200			5	Start Fresh water Displacement.
9:08	300		18		Plug down. Shut in well. Circulated 5 Bbl cement to the pt. Washup pump truck. Job Complete Thank You. Clarence, Mike, Jesse



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Mull Drilling Co., Inc.	Well Name	Hadden #2-35
Well Operator	Mull Drilling Co., Inc.	Unique Well ID	DST #1 Upper L/KC 3238'-3327'
Contact	Mark Shreve	Surface Location	Sec 35-20s-13w-Barton Co.-KS
Site Contact	Chuck Schmaltz	Test Unit	#5
Field	Schaeffer-Rothgam	Pool	NA
Well Type	Vertical	Job Number	F179
Prepared By	Jake Fahrenbruch	Qualified By	Chuck Schmaltz

Test Information

Test Type	Bottom-Hole w/Jars & Joint	Test Purpose	Initial Test
Formation	Upper L/KC 3238'-3327'	Gauge Name	0062
Start Test Date	2013/09/27	Start Test Time	16:28:00
Final Test Date	2013/09/28	Final Test Time	00:05:00

Test Results

5 minute initial flow period:	Strong blow off B.O.B. in 2 minutes.
30 minute initial shut-in period:	No blowback.
45 minute final flow period:	Strong blow off B.O.B. immediately. Gas to surface in 41 minutes, too small to measure.
90 minute final shut-in period:	No blowback.

Recovered:

100' HOCM 20% oil, 80% mud
60' SWCMO 50% oil, 10% wtr, 40% mud
----- Total Recovered Fluid: 160'
----- Gas in all fluid free pipe.
----- No check on water, not enough for a sample:
----- Bottom-Hole Temp: 101 Deg F

Pressures:

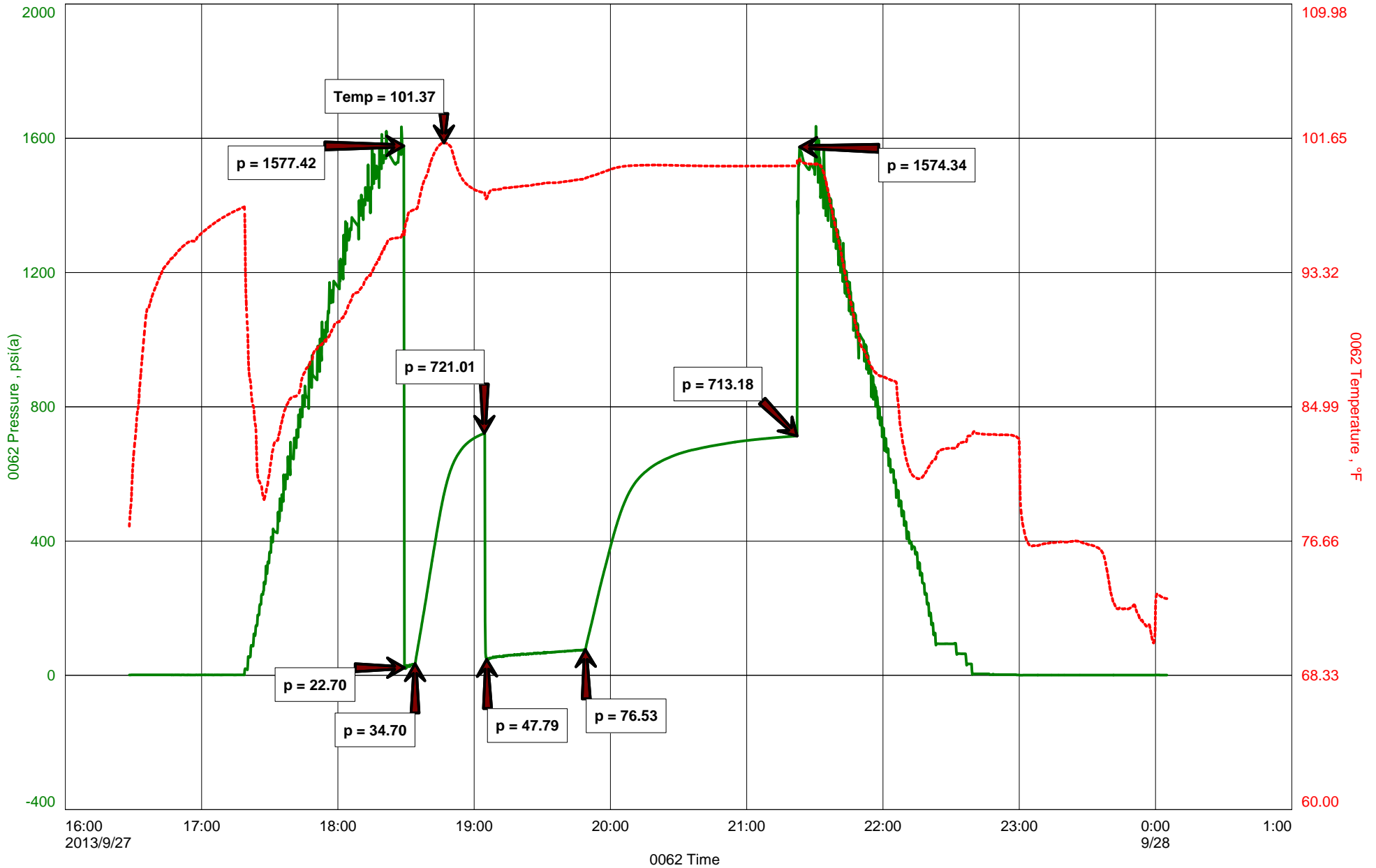
IHP: 1577
IFP: 23 - 35
ISIP: 721
FFP: 48 - 77
FSIP: 713
FHP: 1574

Thanks!

Mull Drilling Co., Inc.
DST #1 Upper L/KC 3238'-3327'
Start Test Date: 2013/09/27
Final Test Date: 2013/09/28

Hadden #2-35
Formation: Upper L/KC 3238'-3327'
Pool: NA
Job Number: F179

Hadden #2-35





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HADDEN2DST1

TIME ON: 4:28 PM
TIME OFF: 12:00 AM 9-28

Company Mull Drilling Co., Inc. Lease & Well No. Hadden #2-35
Contractor Duke Drilling Rig #8 Charge to Mull Drilling Co., Inc.
Elevation 1876' KB Formation _____ Upper L/KC Effective Pay _____ Ft. Ticket No. F179
Date 9-27-13 Sec. 35 Twp. _____ 20 S Range _____ 13 W County _____ Barton State KANSAS
Test Approved By Chuck Schmaltz Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 3238 ft. to 3327 ft. Total Depth 3327 ft.
Packer Depth 3233 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3238 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3217 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3306 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 54 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 6500 P.P.M. Drill Pipe Length 3205 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? GTS TSTM Reversed Out NO Anchor Length 89 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{23' PERF (2' top, 21' btm)} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: String blow off B.O.B. in 2 minutes. No blowback.
2nd Open: Strong blow off B.O.B. immediately, GTS in 41 minutes, TSTM. No blowback.

Recovered 100 ft. of HOCM 20% oil, 80% mud
Recovered 60 ft. of SWCMO 50% oil, 10% wtr, 40% mud
Recovered _____ ft. of Gas in all fluid free pipe.
Recovered _____ ft. of Total recovered fluid: 160'
Recovered _____ ft. of No check on water, not enough for a sample.

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

Time Set Packer(s) 6:29 PM A.M. P.M. Time Started Off Bottom 9:19 PM A.M. P.M. Maximum Temperature 101 Deg F

Initial Hydrostatic Pressure..... (A) 1577 P.S.I.
Initial Flow Period..... Minutes 5 (B) 23 P.S.I. to (C) 35 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 721 P.S.I.
Final Flow Period..... Minutes 45 (E) 48 P.S.I. to (F) 77 P.S.I.
Final Closed In Period..... Minutes 90 (G) 713 P.S.I.
Final Hydrostatic Pressure..... (H) 1574 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Mull Drilling Co., Inc.	Well Name	Hadden #2-35
Well Operator	Mull Drilling Co., Inc.	Unique Well ID	DST #2 Lower L/KC 3364'-3423'
Contact	Mark Shreve	Surface Location	Sec 35-20s-13w-Barton Co.-KS
Site Contact	Chuck Schmaltz	Test Unit	#5
Field	Schaeffer-Rothgam	Pool	NA
Well Type	Vertical	Job Number	F180
Prepared By	Jake Fahrenbruch	Qualified By	Chuck Schmaltz

Test Information

Test Type	Bottom-Hole wJ&J	Test Purpose	Initial Test
Formation	Lower L/KC 3364'-3423'	Gauge Name	0062
Start Test Date	2013/09/28	Start Test Time	10:45:00
Final Test Date	2013/09/28	Final Test Time	16:52:00

Test Results

5 minute initial flow period:	Surface blow, increased to 1".
30 minute initial shut-in period:	No blowback.
45 minute final shut-in period:	2.5" blow, increased to 6".
90 minute final shut-in period:	No blowback.

Recovered:

20'	SW&OCM	5% oil, 5% wtr, 90% mud
-----	100' Gas In Pipe	
-----	Bottom-Hole Temp: 98 Deg F	

Pressures:

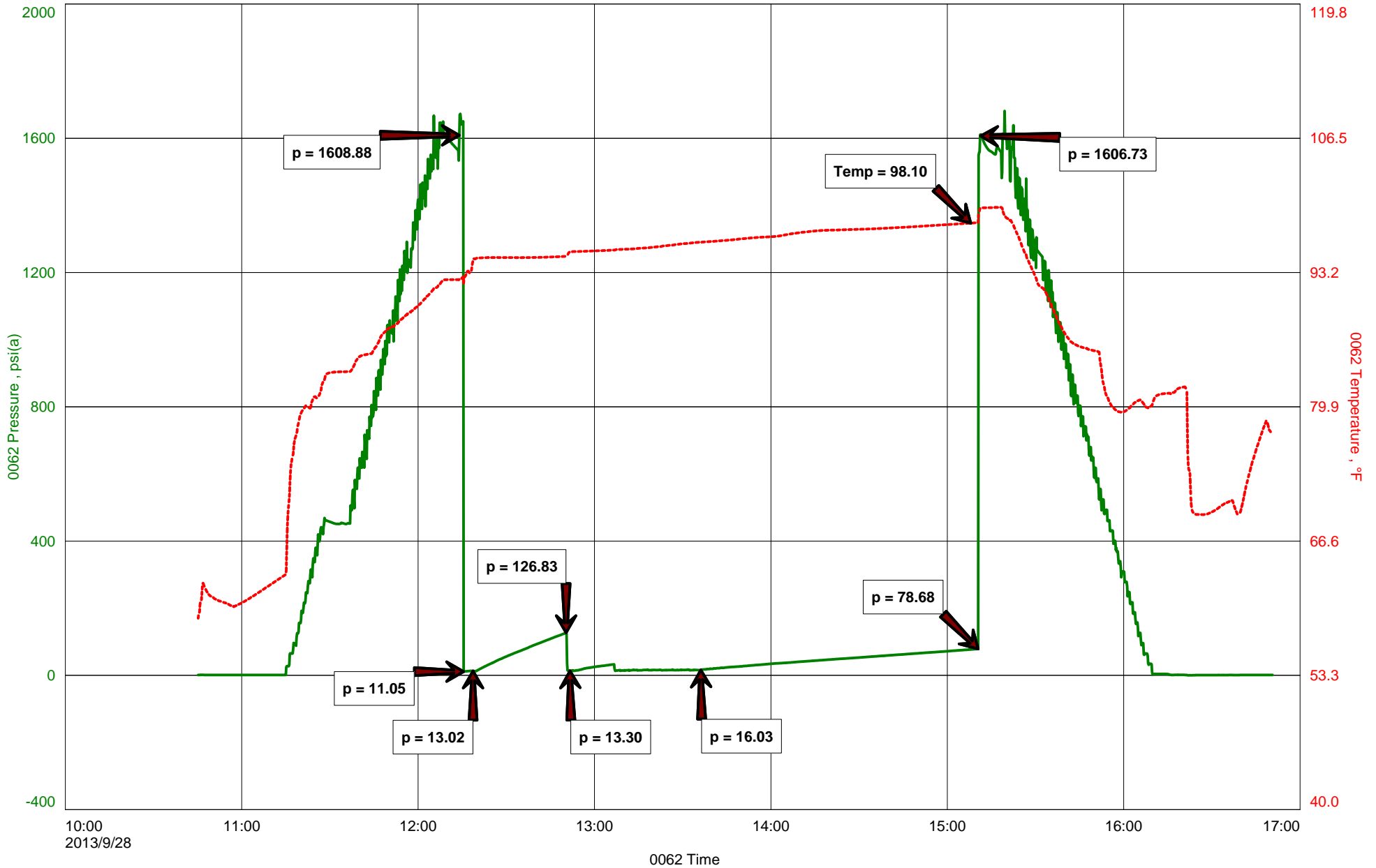
IHP:	1609
IFP:	11 - 13
ISIP:	127
FFP:	13 - 16
FSIP:	79
FHP:	1607

Thanks!

Mull Drilling Co., Inc.
DST #2 Lower L/KC 3364'-3423'
Start Test Date: 2013/09/28
Final Test Date: 2013/09/28

Hadden #2-35
Formation: Lower L/KC 3364'-3423'
Pool: NA
Job Number: F180

Hadden #2-35





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HADDEN2DST2

TIME ON: 10:45 AM
TIME OFF: 4:52 PM

Company Mull Drilling Co., Inc. Lease & Well No. Hadden #2-35
Contractor Duke Drilling Rig #8 Charge to Mull Drilling Co., Inc.
Elevation 1876' KB Formation _____ Lower L/KC Effective Pay _____ Ft. Ticket No. F180
Date 9-28-13 Sec. 35 Twp. _____ 20 S Range _____ 13 W County _____ Barton State KANSAS
Test Approved By Chuck Schmaltz Diamond Representative Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 3364 ft. to 3423 ft. Total Depth 3423 ft.
Packer Depth 3359 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3364 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3343 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3400 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 58 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.05 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8000 P.P.M. Drill Pipe Length 3331 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 59 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{25' PERF (2'top, 23'btm)} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to 1" in bucket. No blowback.
2nd Open: 2.5" blow, increased to 6" in bucket. No blowback.

Recovered 20 ft. of SW&OCM 5% oil, 5% wtr, 90% mud
Recovered _____ ft. of 100' Gas In Pipe
Recovered _____ ft. of _____
Recovered _____ ft. of _____

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

Time Set Packer(s) 12:16 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 3:06 PM ^{A.M.}/_{P.M.} Maximum Temperature 98 Deg F

Initial Hydrostatic Pressure..... (A) 1609 P.S.I.
Initial Flow Period..... Minutes 5 (B) 11 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 127 P.S.I.
Final Flow Period..... Minutes 45 (E) 13 P.S.I. to (F) 16 P.S.I.
Final Closed In Period..... Minutes 90 (G) 79 P.S.I.
Final Hydrostatic Pressure..... (H) 1607 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Mull Drilling Co., Inc.	Well Name	Hadden #2-35
Well Operator	Mull Drilling Co., Inc.	Unique Well ID	DST #3 Base KC 3424'-3472'
Contact	Mark Shreve	Surface Location	Sec 35-20s-13w-Barton Co.-KS
Site Contact	Chuck Schmaltz	Test Unit	#5
Field	Schaeffer-Rothgam	Pool	NA
Well Type	Vertical	Job Number	F181
Prepared By	Jake Fahrenbruch	Qualified By	Chuck Schmaltz

Test Information

Test Type	Bottom-Hole w/J&J	Test Purpose	Initial Test
Formation	Base KC 3424'-3472'	Gauge Name	0062
Start Test Date	2013/09/29	Start Test Time	01:19:00
Final Test Date	2013/09/29	Final Test Time	09:31:00

Test Results

5 minute initial flow period:	Surface blow, increased ti 1.75" in bucket.
30 minute initial shut-in period:	No blowback.
60 minute final flow period:	Surface blow, increased to B.O.B. in 20 minutes.
120 minute final shut-in period:	No blowback.

Recovered:

65' GCOilyMud 15% G, 35% O, 50% M

 250' GAS IN PIPE

 Bottom-Hole Temp: 100 Deg F

Pressures:

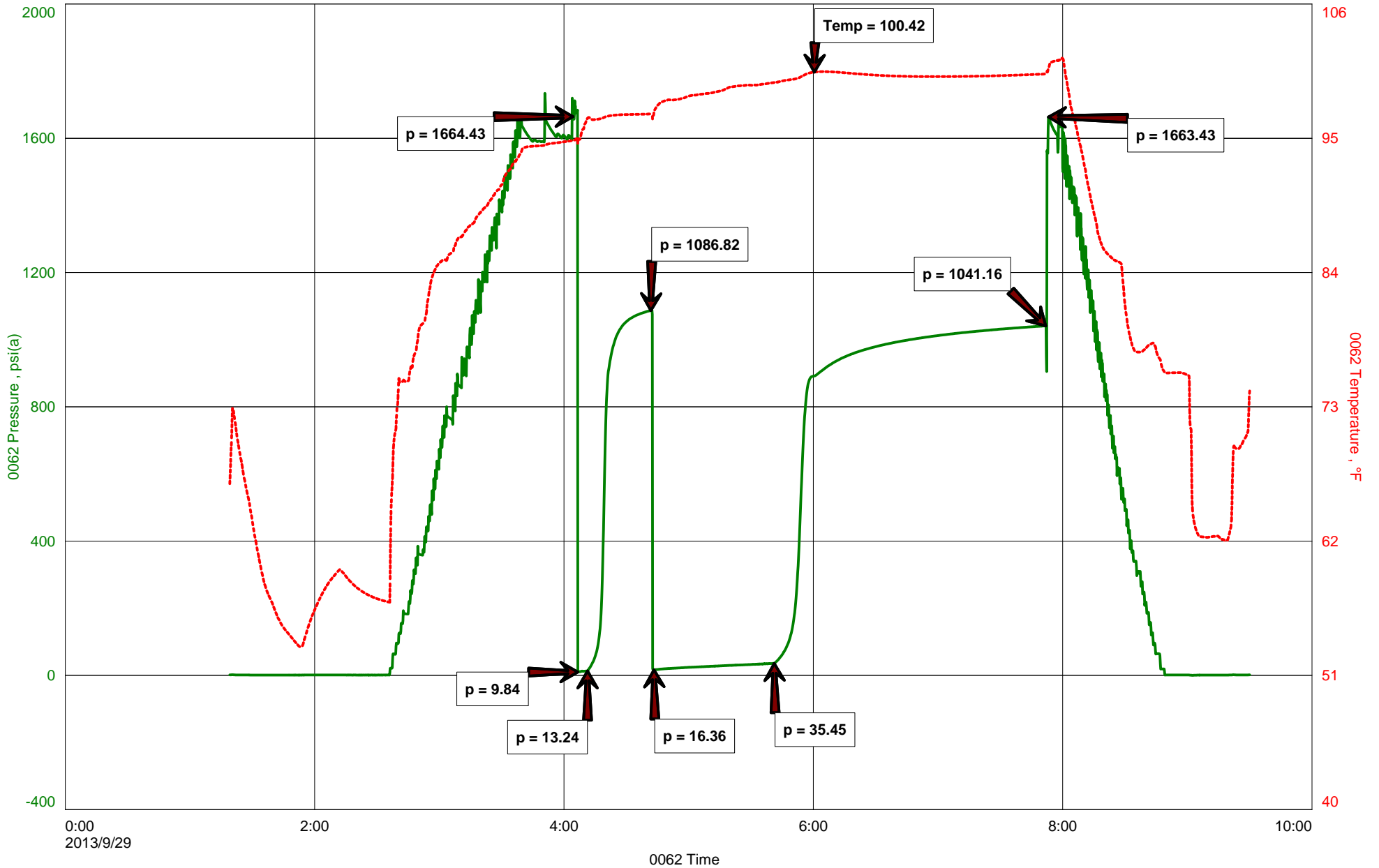
IHP: 1664
 IFP: 10 - 13
 ISIP: 1087
 FFP: 16 - 35
 FSIP: 1041
 FHP: 1663

Thanks!

Mull Drilling Co., Inc.
DST #3 Base KC 3424'-3472'
Start Test Date: 2013/09/29
Final Test Date: 2013/09/29

Hadden #2-35
Formation: Base KC 3424'-3472'
Pool: NA
Job Number: F181

Hadden #2-35





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HADDEN2DST3

TIME ON: 1:19 AM
TIME OFF: 9:31 AM

Company Mull Drilling Co., Inc. Lease & Well No. Hadden #2-35
Contractor Duke Drilling Rig #8 Charge to Mull Drilling Co., Inc.
Elevation 1876' KB Formation _____ Base KS Effective Pay _____ Ft. Ticket No. F181
Date 9-29-13 Sec. 35 Twp. _____ 20 S Range _____ 13 W County _____ Barton State KANSAS
Test Approved By Chuck Schmaltz Diamond Representative Jake Fahrenbruch

Formation Test No. THREE Interval Tested from 3424 ft. to 3472 ft. Total Depth 3472 ft.
Packer Depth 3419 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3424 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3403 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3430 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 56 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8000 P.P.M. Drill Pipe Length 3381 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 48 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{14"PERF(4"top, 10"btm)} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to 1.75" in bucket. No blowback.
2nd Open: Surface blow, increased to B.O.B. in 20 minutes. No blowback.

Recovered 65 ft. of GCOilyMud 15% G, 35% O, 50% M
Recovered _____ ft. of 250' GAS IN PIPE
Recovered _____ ft. of _____
Recovered _____ ft. of _____

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

Time Set Packer(s) 4:07 AM A.M. P.M. Time Started Off Bottom 7:42 AM A.M. P.M. Maximum Temperature 100 Deg F

Initial Hydrostatic Pressure..... (A) 1664 P.S.I.
Initial Flow Period..... Minutes 5 (B) 10 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1087 P.S.I.
Final Flow Period..... Minutes 60 (E) 16 P.S.I. to (F) 35 P.S.I.
Final Closed In Period..... Minutes 120 (G) 1041 P.S.I.
Final Hydrostatic Pressure..... (H) 1663 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.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Mull Drilling Co., Inc.	Well Name	Haddon #2-35
Well Operator	Mull Drilling Co., Inc.	Unique Well ID	DST #4 Arbuckle 3465'-3543'
Contact	Mark Shreve	Surface Location	Sec 35-20s-13w-Barton Co.-KS
Site Contact	Chuck Schmaltz	Test Unit	#5
Field	Schaeffer-Rothgam	Pool	NA
Well Type	Vertical	Job Number	F182
Prepared By	Jake Fahrenbruch	Qualified By	Chuck Schmaltz

Test Information

Test Type	Bottom-Hole w/J&J	Test Purpose	Initial Test
Formation	Arbuckle 3465'-3543'	Gauge Name	0062
Start Test Date	2013/09/29	Start Test Time	19:38:00
Final Test Date	2013/09/30	Final Test Time	01:48:00

Test Results

5 minute initial flow period:	Surface blow, increased to 1" in bucket.
30 minute initial shut-in period:	No blowback.
30 minute final flow period:	Surface blow, increased to 1" in bucket.
60 minute final shut-in period:	No blowback.

Recovered:

5'	Free Oil
10'	SOCM 8% O, 92% M
-----	Total Recovered Fluid: 15'
-----	Bottom-Hole Temp: 99 Deg F

Pressures:

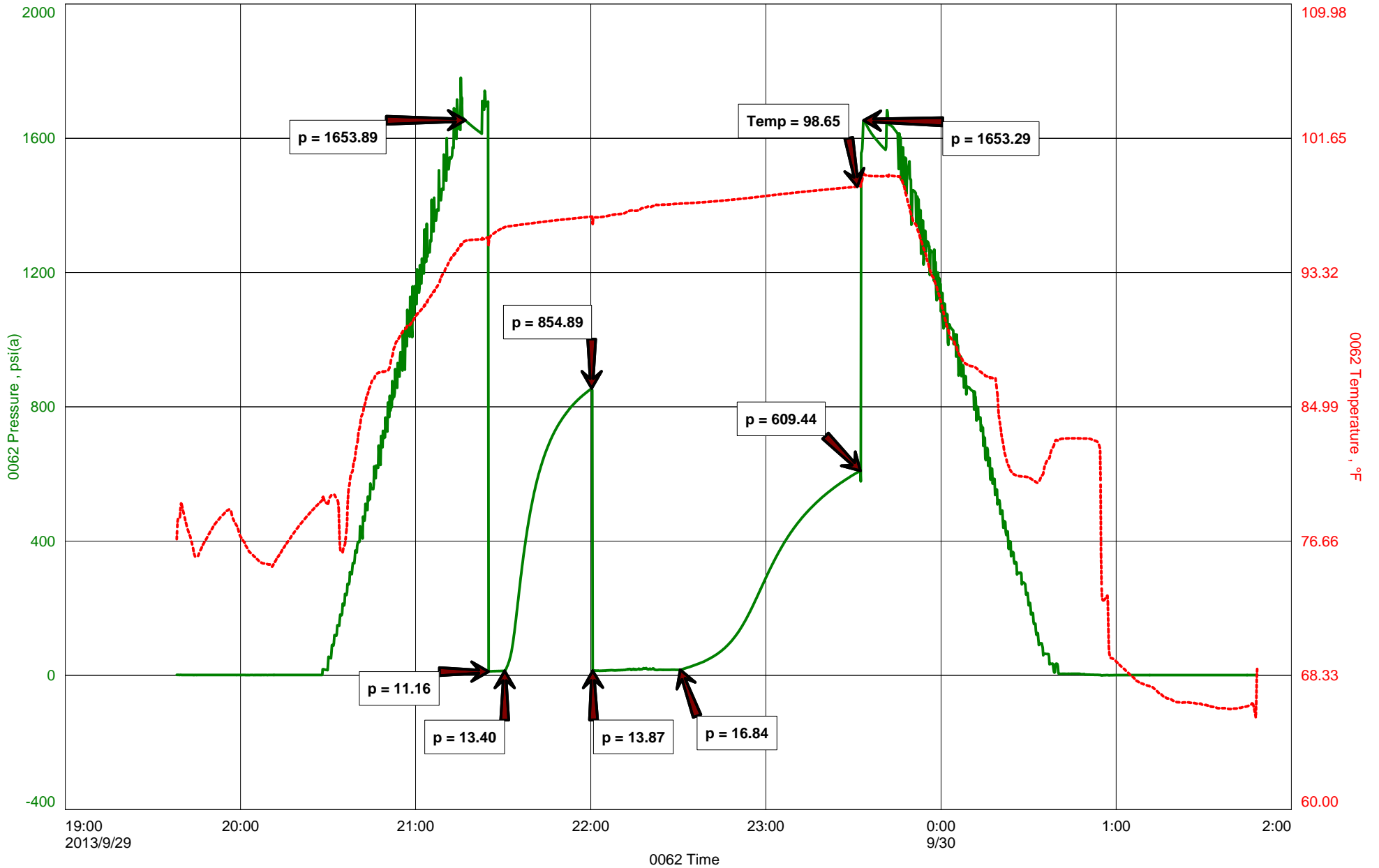
IHP:	1654
IFP:	11 - 13
ISIP:	855
FFP:	14 - 17
FSIP:	609
FHP:	1653

Thanks!

Mull Drilling Co., Inc.
DST #4 Arbuckle 3465'-3543'
Start Test Date: 2013/09/29
Final Test Date: 2013/09/30

Haddon #2-35
Formation: Arbuckle 3465'-3543'
Pool: NA
Job Number: F182

Haddon #2-35





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HADDON2DST4

TIME ON: 7:38 PM 9-29
TIME OFF: 1:48 AM 9-30

Company Mull Drilling Co., Inc. Lease & Well No. Haddon #2-35
Contractor Duke Drilling Rig #8 Charge to Mull Drilling Co., Inc.
Elevation 1876' KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. F182
Date 9-29-13 Sec. 35 Twp. 20 S Range 13 W County Barton State KANSAS
Test Approved By Chuck Schmaltz Diamond Representative Jake Fahrenbruch

Formation Test No. FOUR Interval Tested from 3465 ft. to 3543 ft. Total Depth 3543 ft.
Packer Depth 3460 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3465 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3446 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3471 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 56 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 8000 P.P.M. Drill Pipe Length 3432 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 78 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{12"perf, 4"top, 8"btm} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Surface blow, increased to 1" in bucket. No blowback.
2nd Open: Surface blow, increased to 1". No blowback.

Recovered <u>5</u> ft. of <u>Free Oil</u>	Price Job Other Charges Insurance Total
Recovered <u>10</u> ft. of <u>SOCM</u> <u>8% O, 92% M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: <u>Total Recovered Fluid: 15'</u>	

Time Set Packer(s) 9:25 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 11:30 PM ^{A.M.}/_{P.M.} Maximum Temperature 99 Deg F
Initial Hydrostatic Pressure..... (A) 1654 P.S.I.
Initial Flow Period..... Minutes 5 (B) 11 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 855 P.S.I.
Final Flow Period..... Minutes 30 (E) 14 P.S.I. to (F) 17 P.S.I.
Final Closed In Period..... Minutes 60 (G) 609 P.S.I.
Final Hydrostatic Pressure..... (H) 1653 P.S.I.

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GEOLOGICAL REPORT

SAMPLE LOG

OPERATOR **Mull Drilling Company**
LEASE **Haddon** WELL NO. **4-2-35**
FIELD **1145' FSL & 1380' FEL**
LOCATION **35** TWP. **20S** R. **13W**
SECT. **20S** **13W**
COUNTY **BARTRON** **KANSAS**

CONTRACTOR **Duke Drilling Co. Rig # 8**
COMM. **23 Sept 2013** **COMP.** **30 Sept 2013**
ROTARY TOTAL DEPTH **3601'**
LOG TOTAL DEPTH **3601'**
SAMPLES SAVED FROM **3000'** TO **RTD**
DRILLING TIME FROM **3000'** TO **RTD**
SUPERVISOR FROM **3000'** TO **RTD**
MUD TYPE **CHEMICAL**
WELL SITE GEOLOGIST **CHARLES R. SCHWALITZ**

FORMATION	START	END	E. LOG	ENTR	A	B	C	D
AMYGDALITE - TOP	715							
AMYGDALITE - BASE	737							
HEEBNER SH	3117	-1241	3114	-1240				
DOUGLAS	3136	-1260	3133	-1260				
DOUGLAS	3153	-1277	3150	-1274				
DOUGLAS	3235	-1533	3232	-1530				
DOUGLAS	3249	-1553	3246	-1550				
DOUGLAS	3468	-1592	3465	-1590				
DOUGLAS	3528	-1652	3525	-1650				
DOUGLAS	3600	-1724	3597	-1721				
DOUGLAS	3601	-1725	3601	-1725				

1 Mull Drilling Co. Haddon #4-35 1380' FSL & 1470' FEL. SEC. 35-T.20S-R.13W
 2
 3
 4

DATE	DEPTH	NO	SIZE	WIRE	TYPE	DEPTH CUT	FEET	RECORD
9/23/13	MRT	1	1 1/4"	WABEEL		288	288	
9/24/13	288'							
9/25/13	1700'	1	7/8"	WABEEL		3600	3312	
9/26/13	2635'							
9/27/13	3250' DST #1							
9/28/13	3410' DST #2							
9/29/13	3412' DST #3							
9/30/13	3600'							

FORMATION	INTERVAL	DESCRIPTION OF STRAT.	LOG INTERVALS
			0 LOG INTERVALS

FORMATION	START	END	E. LOG	ENTR	A	B	C	D
HEEBNER SH	3117	-1241	3114	-1240				
DOUGLAS	3136	-1260	3133	-1260				
DOUGLAS	3153	-1277	3150	-1274				
DOUGLAS	3235	-1533	3232	-1530				
DOUGLAS	3249	-1553	3246	-1550				
DOUGLAS	3468	-1592	3465	-1590				
DOUGLAS	3528	-1652	3525	-1650				
DOUGLAS	3600	-1724	3597	-1721				
DOUGLAS	3601	-1725	3601	-1725				

No.	Interval	IFP/T112	SIP/T112	FFP/T112	TSI/T112	GTS/TSTM
1	3238-3327	25" 35"	72"	48" 77"	713"	100' OCM 60' SWCMO
2	3423	5"	30"	45"	90"	100' GIP 20' SW & OCM
3	3424-3472	10" 13"	108"	16" 35"	1041"	250' GIP 65' GC Oil Mud
4	3465-3543	11" 13"	85"	14" 17"	609"	5' OCM 10' SOCm

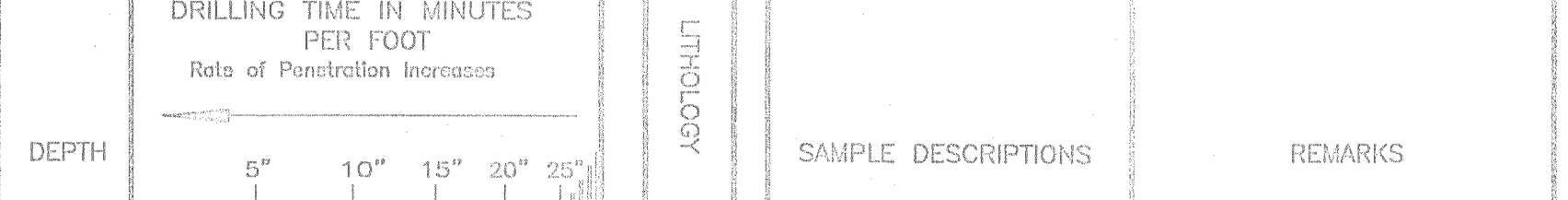
Based on evaluation of samples, DST's and logs, this well was plugged and abandoned on 30 September 2013.

FORMATION	START	END	E. LOG	ENTR	A	B	C	D
HEEBNER SH	3117	-1241	3114	-1240				
DOUGLAS	3136	-1260	3133	-1260				
DOUGLAS	3153	-1277	3150	-1274				
DOUGLAS	3235	-1533	3232	-1530				
DOUGLAS	3249	-1553	3246	-1550				
DOUGLAS	3468	-1592	3465	-1590				
DOUGLAS	3528	-1652	3525	-1650				
DOUGLAS	3600	-1724	3597	-1721				
DOUGLAS	3601	-1725	3601	-1725				

DRILL STEM TESTS

Based on evaluation of samples, DST's and logs, this well was plugged and abandoned on 30 September 2013.

LEGEND



SCALE = 100'

