



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1045069

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Wierman 'A' 1-19
Doc ID	1045069

Tops

Name	Top	Datum
Anhydrite	1775	+663
B/Anhydrite	1812	+627
Heenber Shale	3842	-1402
B/KC	4164	-1723
Marmaton	4208	-1774
Pawnee	4250	-1810
Ft. Scott	4348	-1908
Cherokee Sand	4444	-2008
Miss/Warsaw	4460	-2022
Miss/Osage	4476	-2086



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

October 04, 2010

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

Re: ACO1
API 15-135-25082-00-00
Wierman 'A' 1-19
NE/4 Sec.19-16S-22W
Ness 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

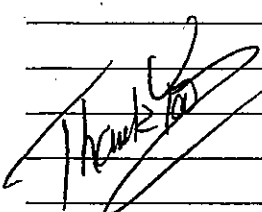
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4110

Date	7-5-10	Sec.	19	Twp.	16	Range	22	County	Wass	State	Kansas	On Location		Finish	4:45 PM								
Lease	Wierman A	Well No.	1-19		Location		Braunell 2W 1/2 Winto																
Contractor	H/W Drilling Rig 2				Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.																
Type Job	Plug				Charge To		Mell Drilling																
Hole Size	7 7/8				T.D.		4520																
Csg.					Depth																		
Tbg. Size					Depth																		
Tool					Depth																		
Cement Left in Csg.					Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.																
Meas Line					Displace		Cement Amount Ordered, 300 gal 48 lb																
EQUIPMENT																							
Pumptrk	1	No.	Cement	Steve	50	Common	180																
Bulktrk	10	No.	Driver	Brandon	50	Poz. Mix	120																
Bulktrk		No.	Driver	Don	50	Gel.	10																
JOB SERVICES & REMARKS																							
Remarks:												Calcium											
Rat Hole	30sx											Hulls											
Mouse Hole	20sx											Salt											
Centralizers												Flowseal 75											
Baskets												Kol-Seal											
D/V or Port Collar												Mud CLR 48											
1st Plug @ 1810	50sx											CFL-117 or CD110 CAF 38											
2nd " " 1130	80sx											Sand											
3rd " " 600	50sx											Handling 310											
4th " " 250	50sx											Mileage											
5th " " 60	20sx											FLOAT EQUIPMENT											
Rat Hole	30sx											Guide Shoe											
Mouse Hole	20sx											Centralizer											
Quality Oilwell Cementing																							
												Pumptrk Charge				Plug							
												Mileage				22				Tax			
																				Discount			
X Signature												Total Charge											

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4106

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-28-10	19	16	22	Ness	Kansas		7:00pm
Lease	Well No.	Location					
Leeman A	1-19	Bramwell SW 1/4 W10					
Contractor	Owner						
WW Drilling Rig 2	To Quality Oilwell Cementing, Inc.						
Type Job	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Surface							
Hole Size	T.D.	Charge To					
12 1/2	218	Mull Drilling					
Csg.	Depth	Street					
8 3/8 20lb	218						
Tbg. Size	Depth	City		State			
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered					
10-15		150 Com 30CC 22lb					
Meas Line	Displace						
	13 1/2 Bbl						

EQUIPMENT

Pumptrk	No.	Cement Helper	Common
1		Steve 2 1/2	150
Bulktrk	No.	Driver	Poz. Mix
12		150 2 1/2	
Bulktrk	No.	Driver	Gel.
			3

JOB SERVICES & REMARKS

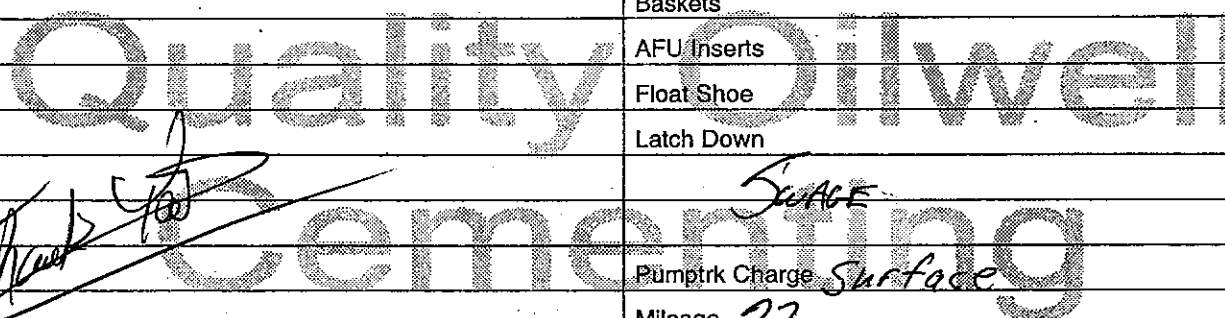
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 150
	Mileage

Cement did Circulate

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	SCAGE
	Pumptrk Charge Surface
	Mileage 22

Signature <i>[Signature]</i>	Tax
	Discount
	Total Charge



Diamond Testing

General information Report

General Information

Company Name MULL DRILLING COMPANY, INC.

Contact ERNIE MORRISON
Well Name WIERMAN 'A' #1-19
Unique Well ID DST #1 FT SCOTT / CHEROKEE 4,320' - 4,383'
Surface Location SEC 19-16S-22W NESS COUNTY, KS
Well License Number
Field WILDCAT
Well Type Vertical

Job Number
Representative ROGER D. FRIEDLY
Well Operator MULL DRILLING COMPANY, INC.
Report Date 2010/07/03
Prepared By ROGER D. FRIEDLY

Test Type CONVENTIONAL
Formation DST #1 FT SCOTT / CHEROKEE 4,320' - 4,383'
Well Fluid Type 01 Oil
Start Test Date 2010/07/03
Final Test Date 2010/07/03
Gauge Name 1150
Gauge Serial Number

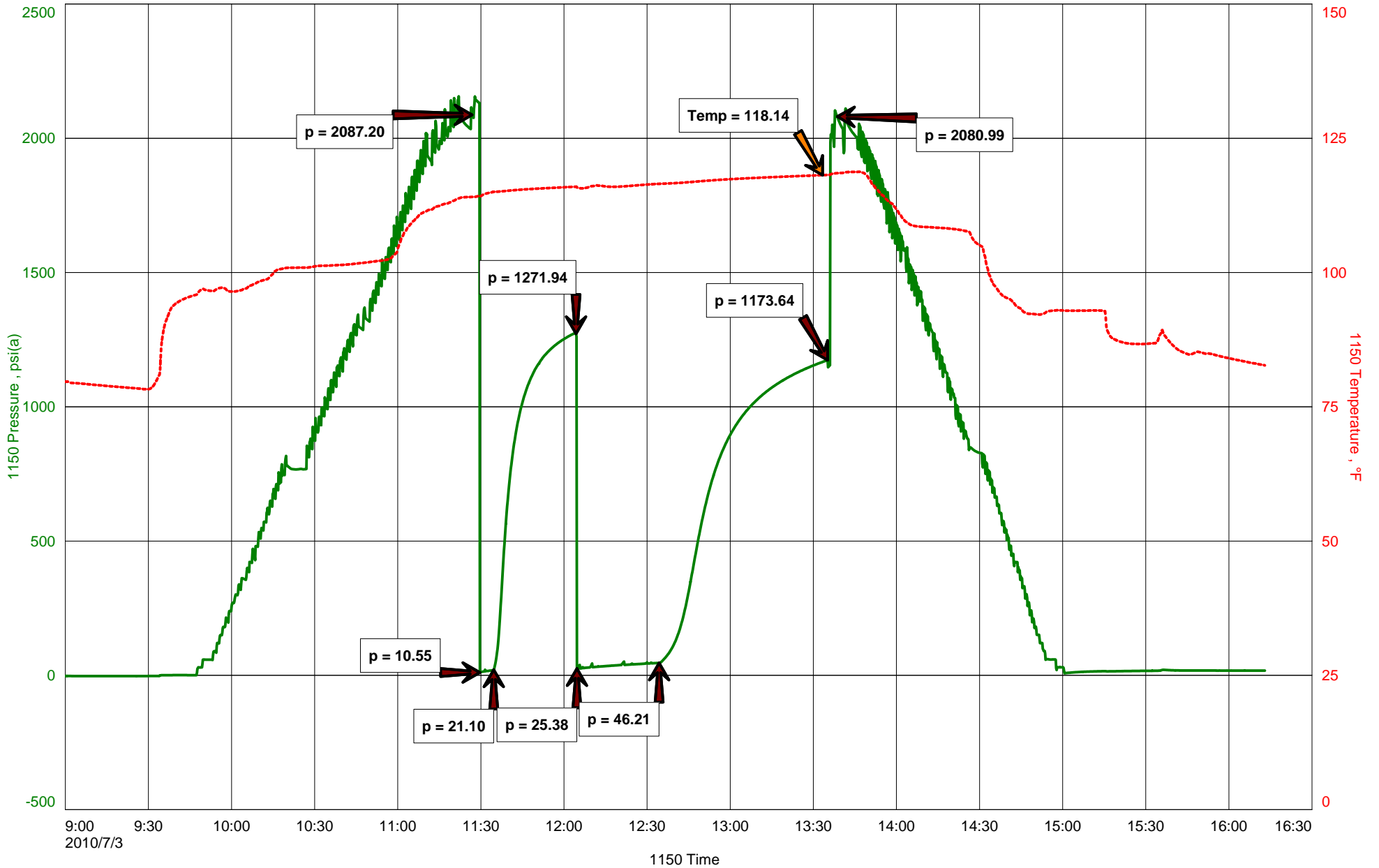
Start Test Time 09:00:00
Final Test Time 16:13:00

Test Results

RECOVERED: 67' DM 100% MUD WITH A FEW OIL SPECKS

TOOL SAMPLE: 100% DM FEW OIL SPECKS

WIERMAN 'A' #1-19





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL -STEM TEST TICKET

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 ROGER D. FRIEDLY

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ 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 BOWEN 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 _____

Remarks: _____ _____	Price Job
	Other Charges
	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.

Diamond Testing

General information Report

General Information

Company Name MULL DRILLING COMPANY, INC.

Contact	ERNIE MORRISON	Job Number	
Well Name	WIERMAN 'A' #1-19	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #2 CHEROKEE 4,425' - 4,460'	Well Operator	MULL DRILLING COMPANY, INC.
Surface Location	SEC 19-16S-22W NESS COUNTY, KS	Report Date	2010/07/04
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

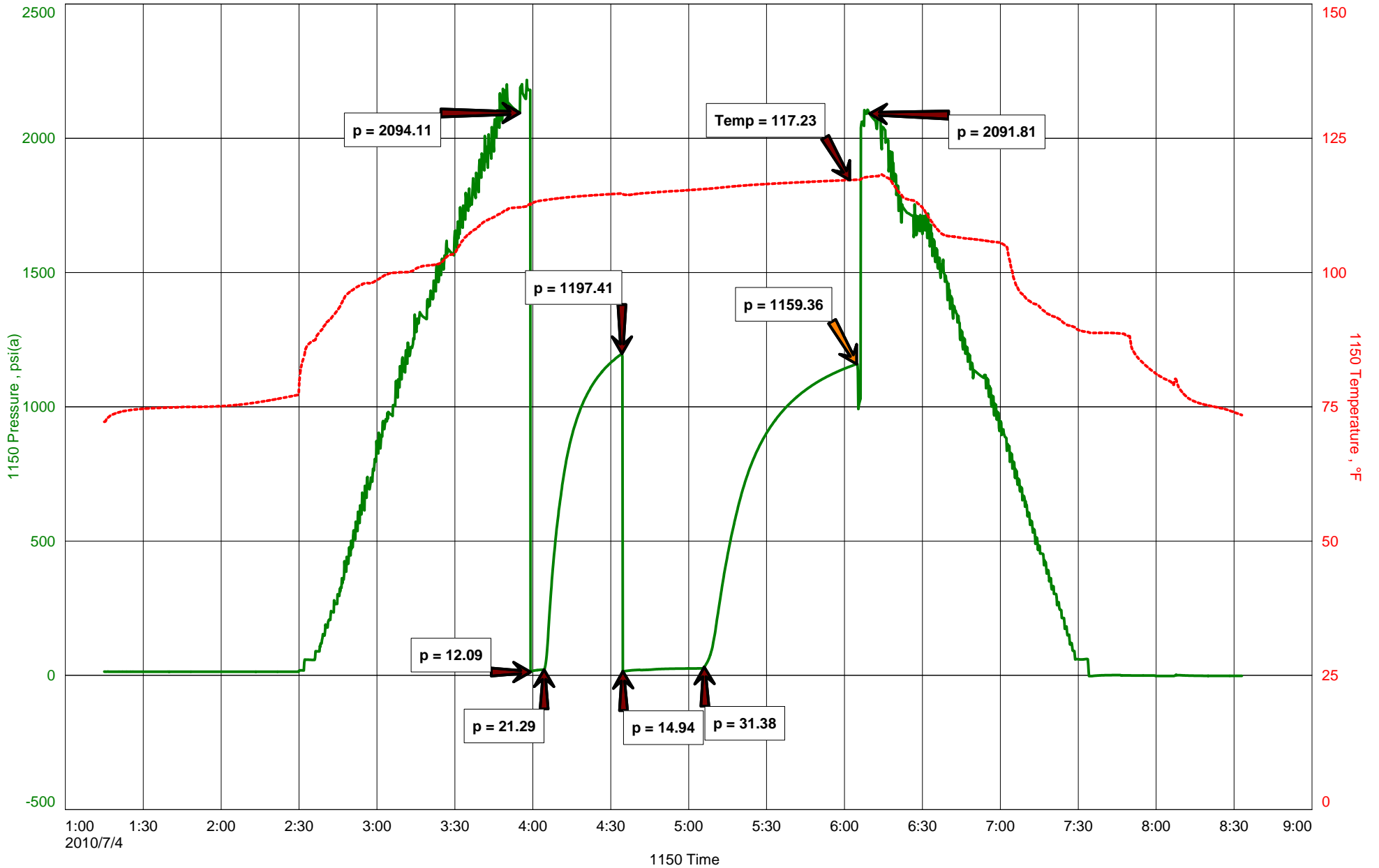
Test Type	CONVENTIONAL	Start Test Time	01:15:00
Formation	DST #2 CHEROKEE 4,425' - 4,460'	Final Test Time	08:33:00
Well Fluid Type	01 Oil		
Start Test Date	2010/07/04		
Final Test Date	2010/07/04		
Gauge Name	1150		
Gauge Serial Number			

Test Results

RECOVERED: 5' OCM 8% OIL, 92% MUD
15' SLT OCM 2% OIL, 98% MUD
20' TOTAL FLUID

TOOL SAMPLE: 4% OIL, 96% MUD

WIERMAN 'A' #1-19





DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313

DRILL -STEM TEST TICKET

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 ROGER D. FRIEDLY

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ 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 BOWEN 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 _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	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.

Diamond Testing

General information Report

General Information

Company Name MULL DRILLING COMPANY, INC.

Contact	ERNIE MORRISON	Job Number	
Well Name	WIEMAN 'A' #1-19	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #3 CHEROKEE/MISS. 4,425' - 4,465'	Well Operator	MULL DRILLING COMPANY, INC.
Surface Location	SEC 19-16S-22W NESS COUNTY, KS	Report Date	2010/07/04
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL	Start Test Time	13:50:00
Formation	DST #3 CHEROKEE/MISS. 4,425' - 4,465'	Final Test Time	22:23:00
Well Fluid Type	06 Water		
Start Test Date	2010/07/04		
Final Test Date	2010/07/04		
Gauge Name	1150		
Gauge Serial Number			

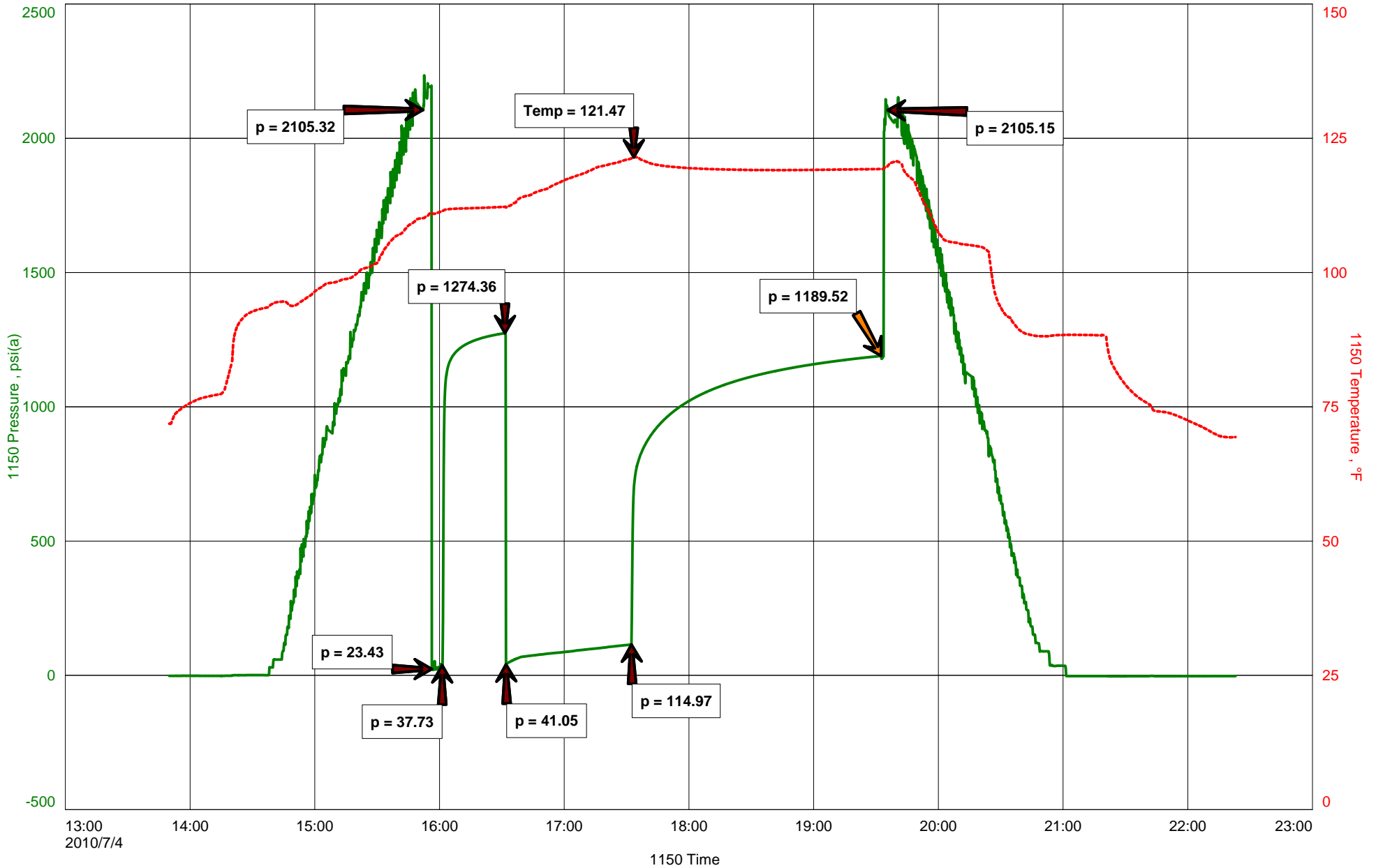
Test Results

RECOVERED: 112' WM 33% WTR, 67% MUD - OIL SPECKS - LESS TAN 1' CLEAN OIL ON TOP
123' SW 100% WTR
235' TOTAL FLUID

TOOL SAMPLE: 58% WTR, 42% MUD

CHLORIDES: 17,000 Ppm
PH: 7.0
RW: .34 @ 62 deg

WIERMAN 'A' #1-19





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL -STEM TEST TICKET

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 ROGER D. FRIEDLY

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ 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 BOWEN 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.

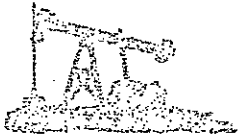
Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____ _____	Price Job
	Other Charges
	Insurance
	Total

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

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PHIL ASKEY

PETROLEUM GEOLOGIST



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mull Drilling Company, Inc.

LEASE Wierman "A" #1-19

FIELD 2319' FNL E 1099' FEL

LOCATION Wildcat

SEC 19 TWSP 16 S RGE 22 W

COUNTY Ness STATE Kansas

CONTRACTOR WW Drilling Rig # 2

SPUD 6/28/10 COMP 7/5/10

RTD 4520' LTD 4519'

MUD UP 3400' TYPE MUD Chemical-Mud-Co

ELEVATIONS

KB 2440'

DF 2438'

GL 2435'

Measurements Are All From KB

CASING SURFACE 8 5/8" @ 219' w/ 150 SXS
PRODUCTION _____

ELECTRICAL SURVEYS
Superior Well Services PE
CUL/COL; DIL; Sonic; Micro

SAMPLES SAVED FROM 3700' TO RTD

DRILLING TIME KEPT FROM 1700'-1900'; 3600' TO RTD

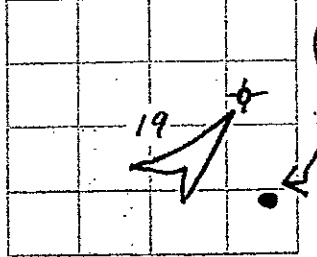
SAMPLES EXAMINED FROM 3700' TO RTD

GEOLOGICAL SUPERVISION FROM 3910' TO RTD

GEOLOGIST ON WELL Phil Askey, P.G.

FORMATION TOPS	LOG	SAMPLES	
Anhydrite	1774 +666	1776	Flat
Hellman	3842 -1902	3842	-6 L
Lansing	3877 -1437	3878	-3
B/KCO	4152 -1712	4153	-3
Marmaton	4187 -1747	4188	-4
Rawnee	4250 -1810	4250	-4
Et. Scott	4348 -1908	4348	-2
Cherokee Shale	4365 -1925	4365	-4
Base Penn Lime	4418 -1978	4419	-1
Cherokee Sand	4453 -2013	4453	-5
MISS WARSW.	4960 -2020	4962	Flat
LTD/RTD	4519 -2079	4520	42' higher

Reference Well
Mull Drilling Company
Wierman #1-19



Mull Drilling Co
Wierman "A" #1-19

REMARKS

7609

The Mull Drilling Wierman "A" #1-19 ran slightly low structurally to the reference well, the Mull Drilling Wierman #1-19 except the Miss Wierman was flat structurally. The Cherokee Sand did not develop in this well and did not contain an oil show w/ negative DST results. The lower Cherokee Sand had a poor Miss Wierman oil show but had unfavorable DST results.

After review of all samples, DST results, and E-log evaluation, it was decided to plug and abandon this well.

Phil Askey, P.G.

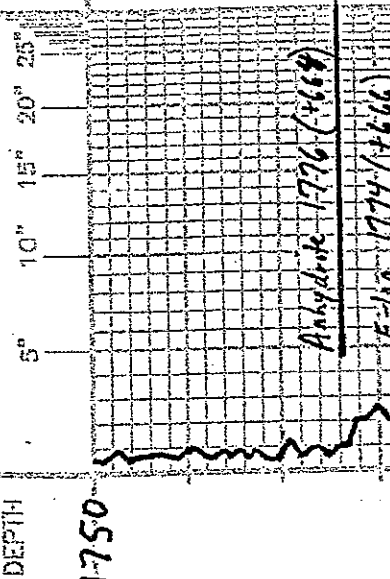
Well API # 15-135-25082

LEGEND

- Anhydrite
- Soil
- Sandstone
- Shale
- Carbon Limestone
- Ool. Lime
- Chert
- Dolomite

SCALE 1" = 100'

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Increases



DEPTH

1750

LOG 7709

SAMPLE DESCRIPTIONS

REMARKS

Andy Duke 17776 (-669)

E-log 1774 (+666)

B/Andy 1814 (+626)

E-log 1812 (+628)

1800

50

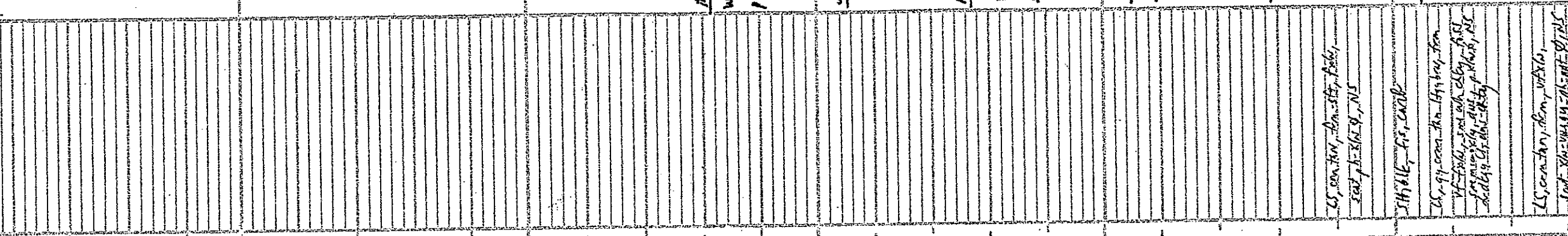
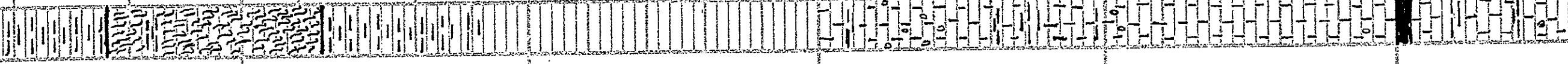
3600

50

3700

King Hill Side 3700 (-726)

E-log 3699 (-729)



Mud-co data @ 3752'
WT 8.6 vis 51 WL 9.6
pH 11.0 CL 3700ppm con 0#

Samples: 10' wet today
3700'-RTD good samples

Rig data:
WOB 38K 800#
SPM 60 850# RPM 75-85

Bit data:
Smith 7 7/8" P-27 218' RTD
94 3/4 hrs

Dev Surveys:
3/4" @ 218'
1" @ 4393'

Pipe Strap:
Strap 4382.37'
Board 4383.02'
Strap short .65' (no correction made)

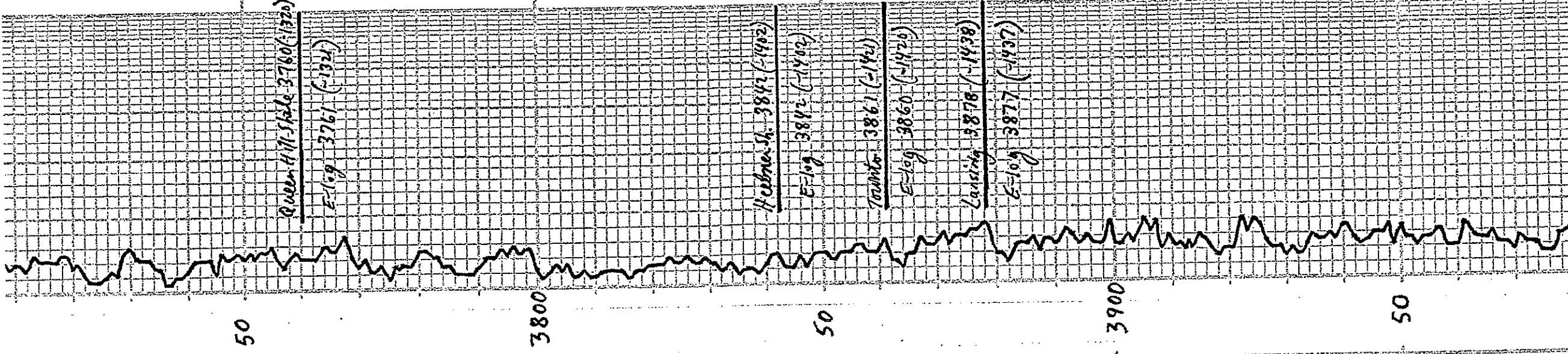
LS, contact, dem. stop, 6661
scat ph = 812.9, NS
Stable, fr, carb
25, 94 core, thin, 44 hrs, form
14-150, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000
LS, contact, dem, vitals,
Start: 8/10/14 9:45 AM - 8/11/14 1:15 PM

Strip 1000001
Board 4383.02'

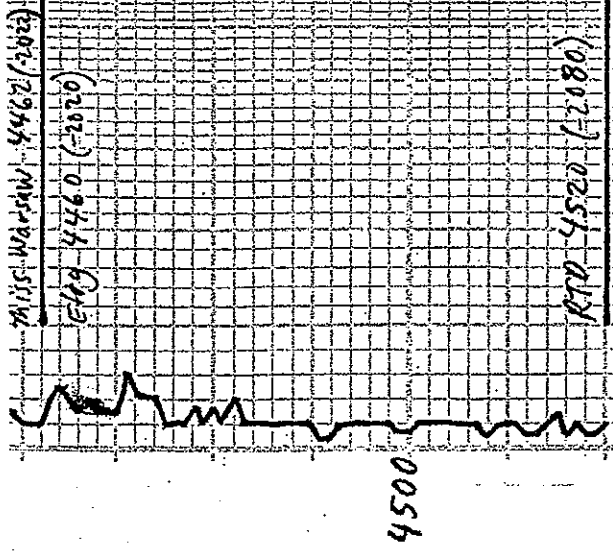
Strip short .65' (No correction made)

DSTs: 3 by Diamond Testing

15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000.



50
 3800
 50
 3900
 50



MISSOURI 4462 (2022)
 4460 (-2020)
 4520 (-2080)
 4519 (-2079)

DST # 3 4425-4465'
 Times: 5" - 30" - 60" - 120"
 1st open: 1/4 inch blow increase to 2 1/4 inches (no blow back)
 2nd open: 1/4 inch blow increase to 1 1/8 inches (no blow back)
 Rec: 112' WM (33% W 67% M) oil spec and 1' Fo on top
 123' SW (100% SW w/ oil spec)
 CL 17,000 ppm
 Total Fluid 235'
 IFP 29-38# FSIP 127#
 FPP 41-115# FSIP 1190#
 BHT 121°F
 Mud-co data @ 4465'
 WT 8.9 VIS 50 WL 112
 pH 9.5 CL 4,800 ppm CCN 2#

intentional...
 1st open: 1/4 inch blow increase to 2 1/4 inches (no blow back)
 2nd open: 1/4 inch blow increase to 1 1/8 inches (no blow back)
 Rec: 112' WM (33% W 67% M) oil spec and 1' Fo on top
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 BHT 121°F
 Mud-co data @ 4465'
 WT 8.9 VIS 50 WL 112
 pH 9.5 CL 4,800 ppm CCN 2#

DEPTH	DRILLING TIME Minutes/Foot	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
5	10			
10	15			
15	20			
20	25			

COMPANY Mull Drilling Company, Inc.
 LEASE Wiernan 4A J #1-19
 LOCATION 2319' ENL §1099' PL SEC 19 TWP 16S. RING 22W
 COUNTY Ness STATE Kansas
 ELEVATION: KB 2440'