

KANSAS CORPORATION COMMISSION 1047340
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5144
 Name: Mull Drilling Company, Inc.
 Address 1: 1700 N WATERFRONT PKWY
 Address 2: BLDG 1200
 City: WICHITA State: KS Zip: 67206 +
 Contact Person: Mark Shreve
 Phone: (316) 264-6366
 CONTRACTOR: License # 5929
 Name: Duke Drilling Co., Inc.
 Wellsite Geologist: Kevin Kessler
 Purchaser: Plains Marketing

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

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

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

<u>08/04/2010</u>	<u>08/13/2010</u>	<u>11/01/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-135-25115-00-00

Spot Description: _____
SW_NE_SE_NE Sec. 4 Twp. 20 S. R. 23 East West
3579 Feet from North / South Line of Section
345 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Ness

Lease Name: MARS Well #: 1-4

Field Name: McCright North

Producing Formation: Cherokee Sand

Elevation: Ground: 2254 Kelly Bushing: 2263

Total Depth: 4480 Plug Back Total Depth: 4679

Amount of Surface Pipe Set and Cemented at: 221 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 1499 Feet

If Alternate II completion, cement circulated from: 1499

feet depth to: 0 w/ 155 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 18200 ppm Fluid volume: 900 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Whitetail Crude, Inc.

Lease Name: James Johnson License #: 31627

Quarter SE Sec. 20 Twp. 18 S. R. 25 East West

County: Ness Permit #: 15-135-20657-00-01

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: 11/30/2010
 Confidential Release Date: 11/29/2012
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
 ALT I II III Approved by: NAOMI JAMES Date: 12/01/2010



1047340

Operator Name: Mull Drilling Company, Inc. Lease Name: MARS Well #: 1-4
 Sec. 4 Twp. 20 S. R. 23 East West County: Ness

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: CDL/CNL w/PE; DIL; Micro and Sonic	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">Name Attached</td> <td style="width:25%; border: none;">Top Attached</td> <td style="width:25%; border: none;">Datum Attached</td> </tr> </table>	Name Attached	Top Attached	Datum Attached
Name Attached	Top Attached	Datum Attached		

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.2500	8.6250	20	221	Common	165	3% cc, 2% gel
Production	7.8750	5.5000	15.5	4730	Lite & 60/40	270	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1499	SMD	155	

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
8	4350' - 4360'	Squeezed w/45 sx	
4	4350' - 4360'	250 gal 7.5% Renab and	
		250 gal 15% Renab	

TUBING RECORD:		Size: <u>2.8750</u>	Set At: <u>4398'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>11/01/2010</u>			Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>35</u>	Gas Mcf <u>0</u>	Water Bbls. <u>186</u>	Gas-Oil Ratio <u>0</u>	Gravity <u>31</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	MARS 1-4
Doc ID	1047340

Tops

Anhydrite	1496	+767
B/Anhydrite	1536	+727
Heebner Shale	3706	-1443
Lansing	3753	-1490
B/KC	4087	-1824
Marmaton	4108	-1845
Pawnee	4190	-1927
Ft. Scott	4264	-2001
Cherokee Shale	4290	-2027
Cherokee Sand	4350	-2087
Mississippi	4381	-2118



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

November 30, 2010

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

Re: ACO1
API 15-135-25115-00-00
MARS 1-4
NE/4 Sec.04-20S-23W
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

KEVIN L. KESSLER

CONSULTING PETROLEUM GEOLOGIST

(316) 522-7338

OPERATOR : MULL DRILLING CO. INC.

LEASE : MARS

WELL # : 1 - 4

LOCATION : 1783' FNL & 335' FEL

SEC: 04

TWP : 20 S

RGE : 23 W

COUNTY : NESS

STATE : KANSAS

CONTRACTOR : DUKE DRILLING RIG # 4

COMM: 08 / 04 / 2010

COMP : 08 / 15 / 2010

RTD : 4780

LOG TD : 4495

SAMPLES SAVED FROM : 3600

TO: RTD

GEOLOGICAL SUPERVISION FROM : 3600

TO : RTD

MUD UP : 3600

TYPE MUD : CHEMICAL

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
HEEBNER	3706	- 1443	3703	- 1440	+ 04
LANSING	3752	- 1489	3749	- 1486	+ 05
.
FT. SCOTT	4264	- 2001	4261	- 1998	FLAT
CHEROKEE	4290	- 2028	4287	- 2025	- 06
MISSISSIPPI	4380	- 2117	4377	- 2114	- 03
ARBUCKLE	NOT LOGGED	.	4720	-2457	N. A.

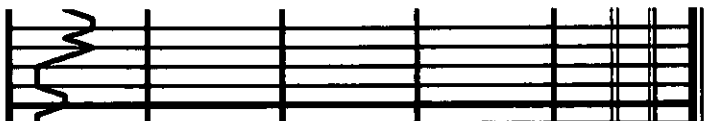
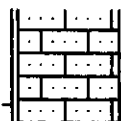
REFERENCE WELL FOR STRUCTURAL COMPARISON :

MULL # 1 - 4 MINOR - STUM

SEC. 04 - T 20 S - R 23 W

NESS COUNTY KANSAS

3600



LST: A. A. SOFT CHKY AREN IN PART
FOSS. MINOR OOLITES NO VIS. FR AMT

DIAMOND TESTING

Drill Test Report

General Information

Company Name MULL DRLG.

Contact ERNIE MORRISON
Well Name MARS #1-4
Unique Well ID DST#1 FT. SCOTT 4240-4290
Surface Location SEC 4-20s-23w NESS Co. Ks.
Field WILDCAT
Well Type Vertical

Job Number M011
Representative MIKE COCHRAN
Well Operator MULL DRLG.
Report Date 2010/08/10
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#1 FT. SCOTT 4240-4290
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time
Final Test Time

Start Test Date 2010/08/10
Final Test Date 2010/08/10

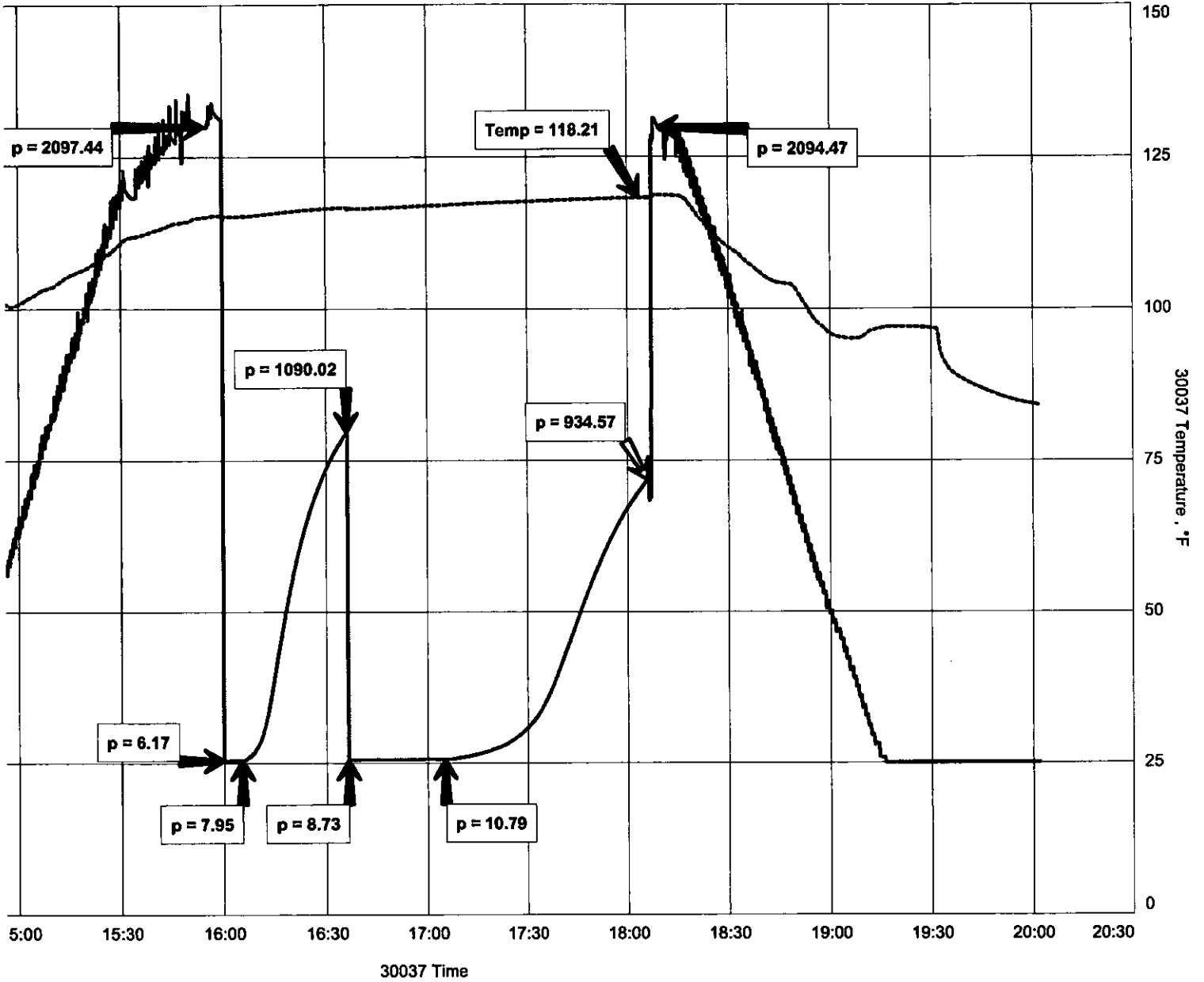
Gauge Name 30037
Test Type Name

Test Results

RECOVERY: 10' VSOSM
10' TOTAL FLUID

TOOL SAMPLE: 1%OIL, 99% MUD

MARS #1-4





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: MARS1-4DST1

TIME ON: 13:30:00
TIME OFF: 20:03

Company MULL DRLG Lease & Well No. MARS #1-4
Contractor DUKE DRLG. RIG #4 Charge to MULL DRLG.
Elevation 2263 Formation FT. SCOTT Effective Pay _____ Ft. Ticket No. M011
Date 08-10-2010 Sec. 4 Twp. _____ Range 20 S County 23 W State NESS KANSAS
Test Approved By KEVIN KESSLER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4240 ft. to 4290 ft. Total Depth 4290 ft.
Packer Depth 4235 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4240 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set

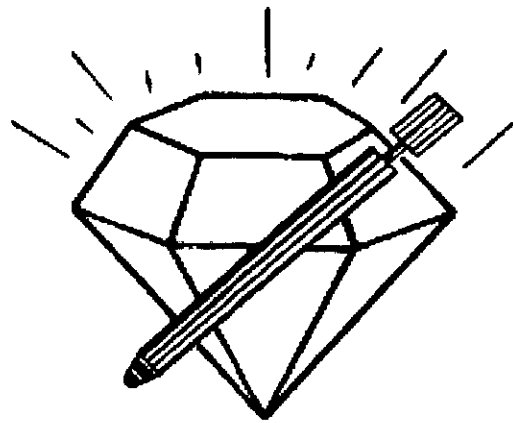
Top Recorder Depth (Inside) 4229 ft. Recorder Number 30037 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4287 ft. Recorder Number 13386 Cap. 3,875 P.S.I.
Below Straddle Recorder Depth NA ft. Recorder Number NA Cap. NA P.S.I.
Mud Type CHEMICAL Viscosity 58 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.5 Water Loss 10.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,300 P.P.M. Drill Pipe Length 4215 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number - Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 50 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DRILL PIPE Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: VERY WEAK SURFACE BLOW (NO BB)
2nd Open: NO BLOW (NO BB)

Recovered <u>10</u> ft. of <u>VSOSM</u>	
Recovered <u>10</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: 1% OIL, 99% MUD	Total

Time Set Packer(s) 4:00 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 6:06 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 118
Initial Hydrostatic Pressure..... (A) 2097 P.S.I.
Initial Flow Period..... Minutes 5 (B) 6 P.S.I. to (C) 8 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1090 P.S.I.
Final Flow Period..... Minutes 30 (E) 9 P.S.I. to (F) 11 P.S.I.
Final Closed In Period..... Minutes 60 (G) 935 P.S.I.
Final Hydrostatic Pressure..... (H) 2094 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.



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FILE: M

Company MULL DRLG

Contractor DUKE DRLG. RIG #4

Elevation 2263 KB Formation CHEROKEE S

Date 08-11-2010 Sec. 4 Twp. 20

Test Approved By KEVIN KESSLER

Formation Test No. 2 Interval Tested from _____

Packer Depth 4265 ft. Size 6 3/4 in.

Packer Depth 4270 ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4257 ft

Bottom Recorder Depth (Outside) 4352 ft

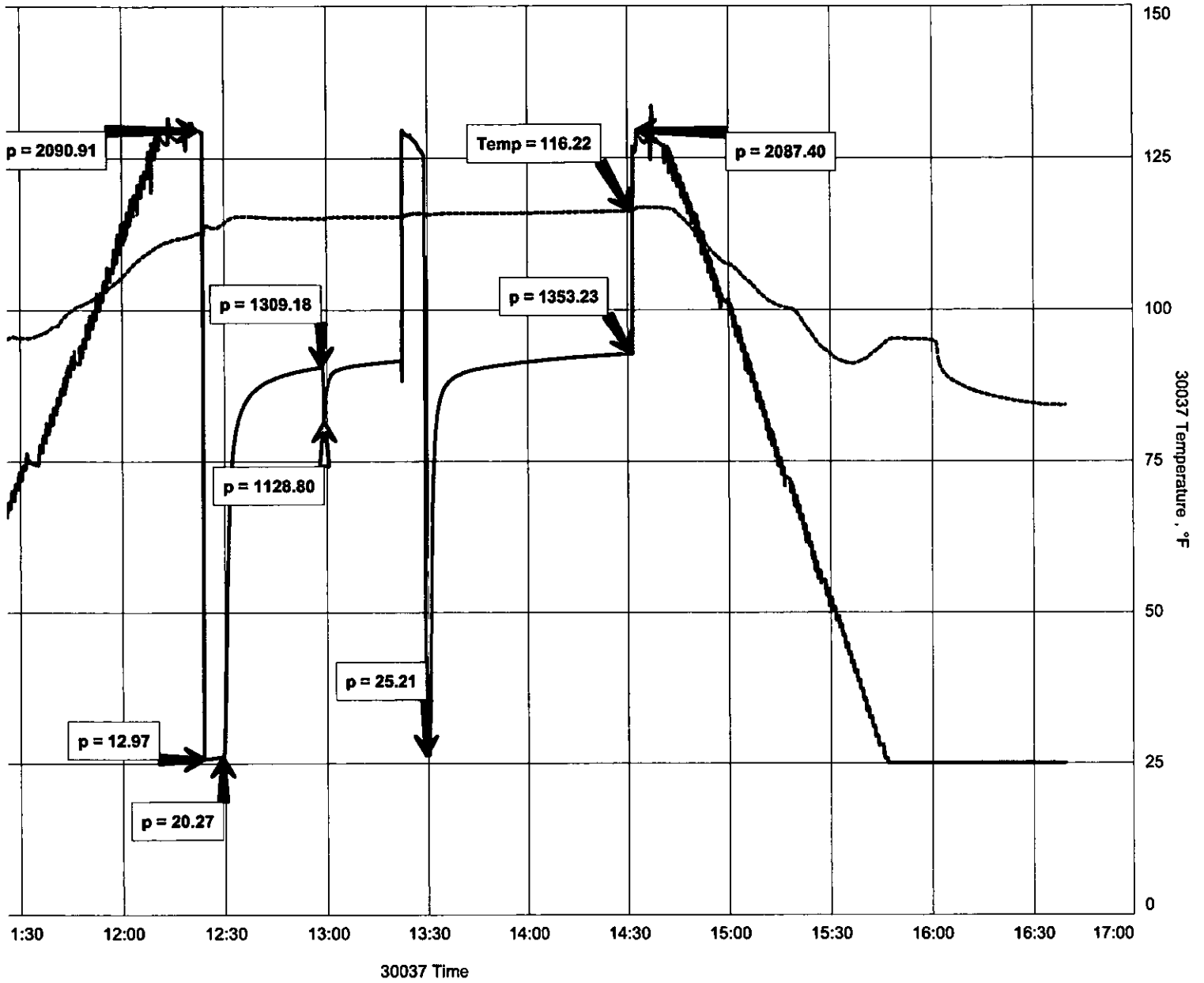
Below Straddle Recorder Depth NA ft

Mud Type CHEMICAL Viscosity 56

Weight 9.1 Water Loss 12.8

Chlorides 9,600 P.P.M.

MARS #1-4



DIAMOND TESTING

Drill Test Report

General Information

Company Name MULL DRLG.

Contact ERNIE MORRISON
Well Name MARS #1-4
Unique Well ID DST#2 CHEROKEE SAND 4270-4355
Surface Location SEC 4-20s-23w NESS Co. Ks.
Field WILDCAT
Well Type Vertical

Job Number M012
Representative MIKE COCHRAN
Well Operator MULL DRLG.
Report Date 2010/08/11
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#2 CHEROKEE SAND 4270-4355
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 10:05:00
Final Test Time 16:41:00

Start Test Date 2010/08/11
Final Test Date 2010/08/11

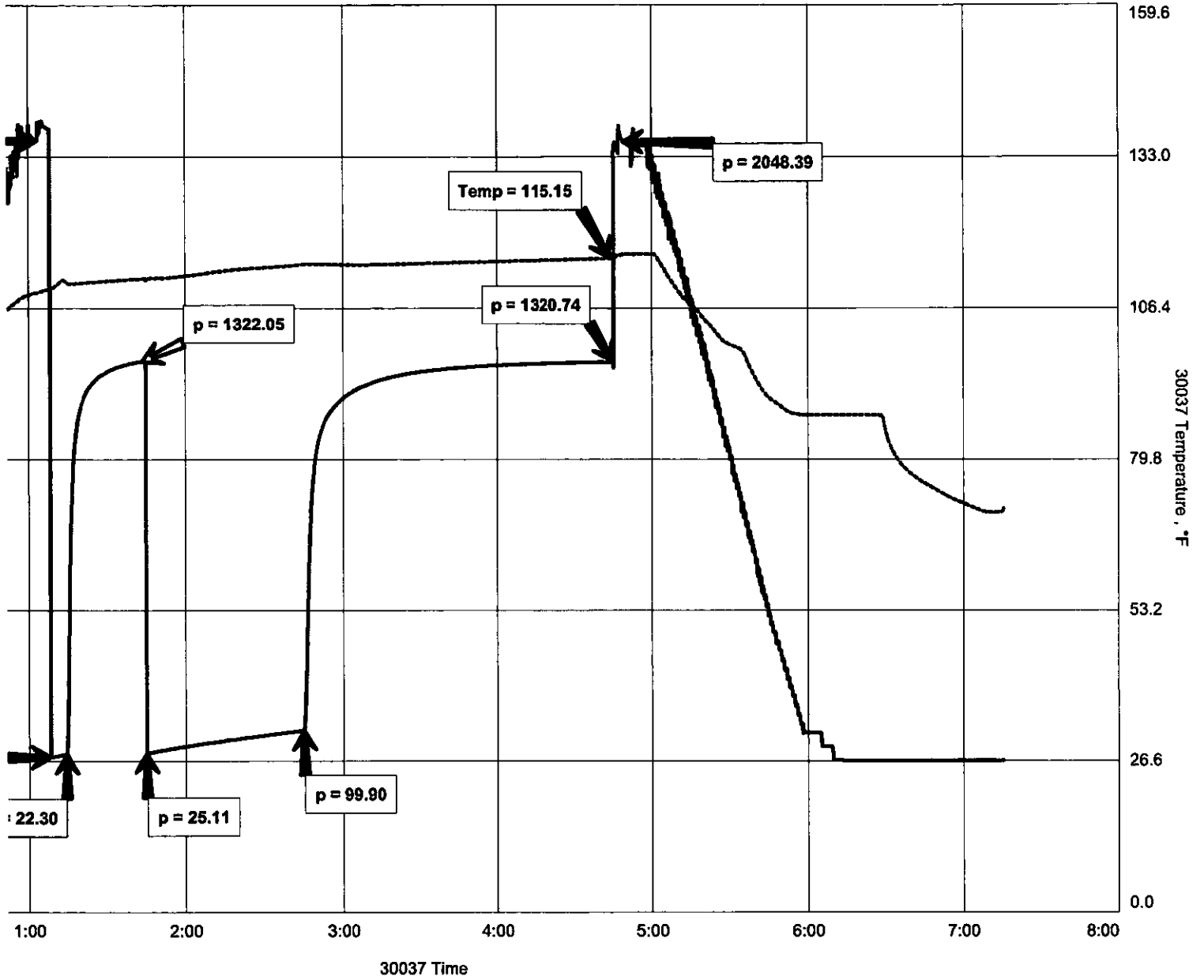
Gauge Name 30037
Test Type Name

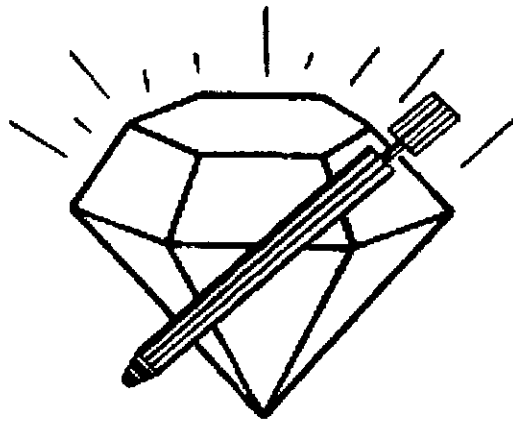
Test Results

RECOVERED: 10' OSM 3% OIL 97% MUD
30' OSM 2% OIL 98% MUD
40' TOTAL FLUID

TOOL SAMPLE: 5% OIL, 95% MUD

MARS #1-4





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FILE: M

Company MULL DRLG

Contractor DUKE DRLG. RIG #4

Elevation 2263 KB Formation CHEROKEE S

Date 08-12-2010 Sec. 4 Twp. 20

Test Approved By KEVIN KESSLER

Formation Test No. 3 Interval Tested from _____

Packer Depth 4260 ft. Size 6 3/4 in.

Packer Depth 4265 ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4247 ft

Bottom Recorder Depth (Outside) 4362 ft

Below Straddle Recorder Depth NA ft

Mud Type CHEMICAL Viscosity 50

Weight 9.4 Water Loss 12.8

Chlorides 9,600 P.P.M.

DIAMOND TESTING

Drill Test Report

General Information

Company Name MULL DRLG.

Contact ERNIE MORRISON
Well Name MARS #1-4
Unique Well ID DST#3 CHEROKEE SAND 4265-4365
Surface Location SEC 4-20s-23w NESS Co. Ks.
Field WILDCAT
Well Type Vertical

Job Number M013
Representative MIKE COCHRAN
Well Operator MULL DRLG.
Report Date 2010/08/12
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#3 CHEROKEE SAND 4265-4365
Well Fluid Type 01 OIL
Test Purpose (AEUB) Initial Test

Start Test Time 23:05:00
Final Test Time 07:16:00

Start Test Date 2010/08/11
Final Test Date 2010/08/12

Gauge Name 30037
Test Type Name

Test Results

RECOVERED: 10' GCO, 7% GAS, 93% OIL GRAVITY 31.6 @ 60 DEG.
62' GOCM, 2% GAS, 14% OIL, 84% MUD
62' GOCM, 2% GAS, 10% OIL, 88% MUD
62' GOCM, 10% GAS, 24% OIL, 66% MUD
196' TOTAL FLUID

TOOL SAMPLE: 2% GAS, 18% OIL, 80% MUD

DIAMOND TESTING

Drill Test Report

General Information

Company Name MULL DRLG.
Contact ERNIE MORRISON
Well Name MARS #1-4
Unique Well ID DST#4 CHEROKEE SAND 4285-4380
Surface Location SEC 4-20s-23w NESS Co. Ks.
Field WILDCAT
Well Type Vertical

Job Number M014
Representative MIKE COCHRAN
Well Operator MULL DRLG.
Report Date 2010/08/13
Prepared By MIKE COCHRAN

Test Information

Test Type CONVENTIONAL
Formation DST#4 CHEROKEE SAND 4285-4380
Well Fluid Type 01 Oil
Test Purpose (AEUB) Initial Test

Start Test Time 13:37:00
Final Test Time 00:49:00

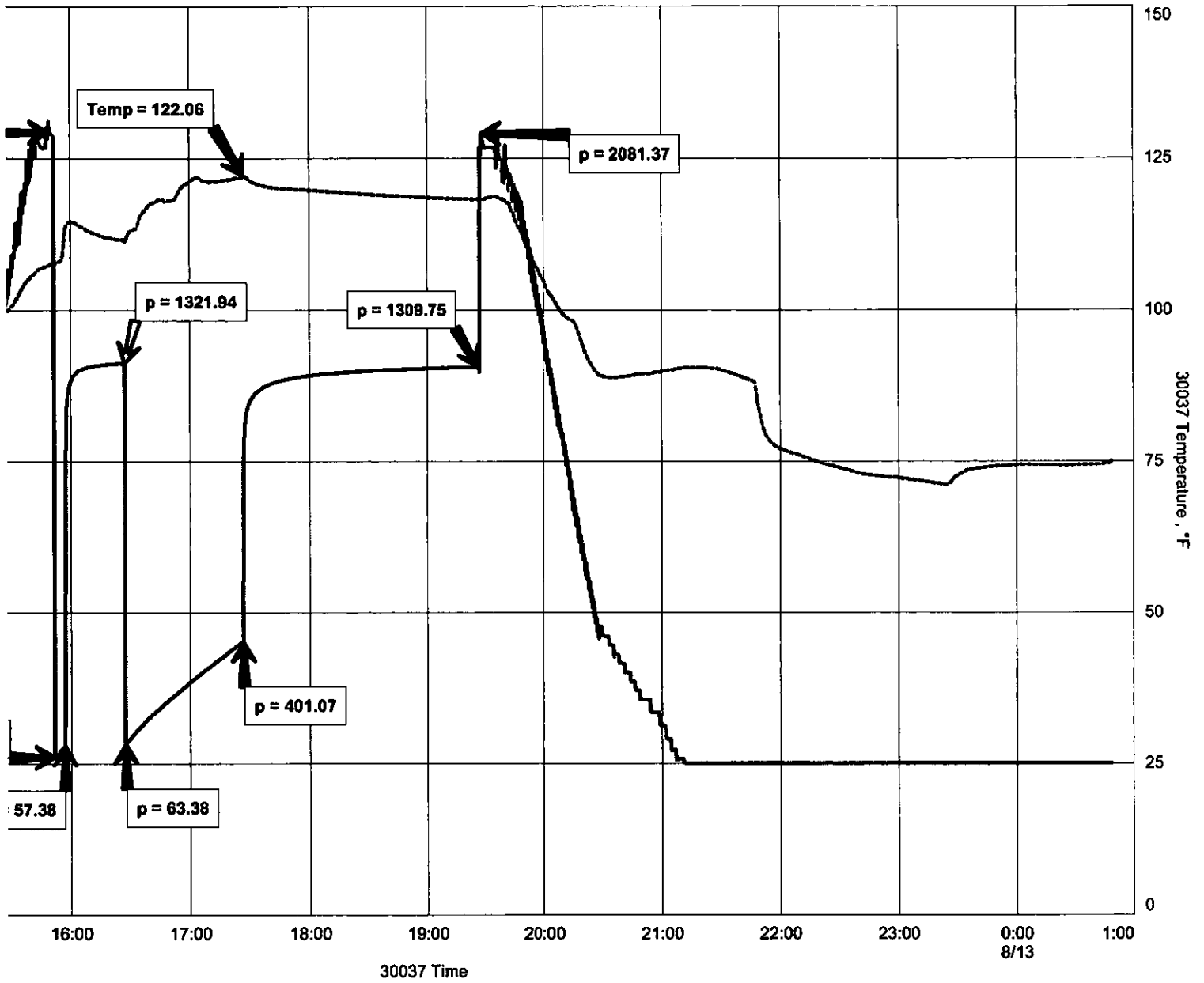
Start Test Date 2010/08/12
Final Test Date 2010/08/13

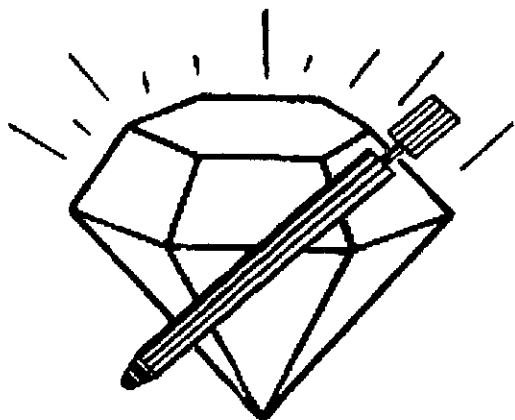
Gauge Name 30037
Test Type Name

Test Results

RECOVERY: SEE FIELD TICKET

MARS #1-4





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FILE: M

Company MULL DRLG

Contractor DUKE DRLG. RIG #4

Elevation 2263 KB Formation CHEROKEE S

Date 08-13-2010 Sec. 4 Twp. 20

Test Approved By KEVIN KESSLER

Formation Test No. 4 Interval Tested from _____

Packer Depth 4280 ft. Size 6 3/4 in.

Packer Depth 4285 ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ 4267 ft

Bottom Recorder Depth (Outside) _____ 4377 ft

Below Straddle Recorder Depth _____ NA ft

Mud Type CHEMICAL Viscosity 55

Weight 9.05 Water Loss 10.0

Chlorides _____ 7,700 P.P.M.

Attn: Bill



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Invoice

DATE	INVOICE #
8/18/2010	18926

BILL TO
Mull Drilling Co. Inc. PO Box 393 Cheyenne Wells, CO 80810

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-4	Mars	Ness	Wild West Well S...	Oil	Development	Cement Port Collar	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				15	Miles	5.00	75.00
576D-D	Pump Charge - Port Collar - 1499 Pct.				1	Job	1,100.00	1,100.00
105	Port Collar Tool Rental With Man				1	Each	300.00	300.00T
290	D-Air				1	Gallon(s)	35.00	35.00T
276	Floccs				44	Lb(s)	1.50	66.00T
330	Swift Multi-Density Standard (MIDCON II)				175	Sacks	15.00	2,625.00T
581D	Service Charge Cement				175	Sacks	1.50	262.50
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							4,713.50
	Sales Tax Ness County						6.30%	190.64

203 AFE
SEP 23 2010
WLR



CHARGE TO: **MULH Drilling**

ADDRESS

CITY, STATE, ZIP CODE

SERVICE LOCATIONS 1. NUM objects	WELL/PROJECT NO. 1-4	LEASE MARS	COUNTY/PARISH NEO	STATE KS	CITY NEO city
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Lined Meter	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO LOCATION
3.	WELL TYPE oil	WELL CATEGORY Development	JOB PURPOSE concrete pads	WELL PERMIT NO.	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS				

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UNIT	QTY.	UNIT
		LOC	ACCT	DF					
575		1			MILEAGE TRK 114	10	mi		
578		1			Pump Charge	1	ea		
325		1			STANDARD cement			50	kg
292		1			HALAD-322			25	lb
290		1			DAIR			1/2	ea
581		1			Service charge	50	hrs		
582		1			Drayage (min)	1	ea		

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *[Signature]*
DATE SIGNED _____ TIME SIGNED **11:55** A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECEDED	AGI
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

JOB LOG

SWIFT Services, Inc.

DATE: 10 SEP 02 PAGE NO. 1

CUSTOMER: MULL Drilling / WELL NO.: 1-4 LEASE: MARS JOB TYPE: Spuds 22 perf's TICKET NO.: 18875

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								perfs 4350-4360 520 2 1/2
								pressure at 4287
								DSP - 24.8 to packer
								1.5 in casing
								26.3 total
								50 stks STD on location
	0900							on loc TRK 144
	0905		26			50	500	previous backside to 500
	0920	2	10			200	500	got injection rate
	0930							umps to packer
		2	10			100	500	start casing circulation { 15.3"/gal w/ balad 312 } in first 30 stks, pressure weight to 15.6"/gal
								stks mixed
	0940	3						washed pump & line
			7			300		shot displacement
		3	16			800	500	catch pressure
		3	22			1000	500	
		1	23			400	500	
	0951		24			300		Kickstart - 1/2 motor due to Ø
	1001	1/2	24 1/2			700	500	got 2 1/2 - pressure to 700
	1005		25 1/2			1500	50	more 1 bbl quartz 1500
								shot in tubing - wash truck
	1030					1500	50	open tubing 30 psi - pump upto 1500 1/2 bbl paper
	1035					Ø	Ø	Release pressure
			24					wash through squeeze - 3 joints in
								24 bbl H ₂ O paper
			40					Run 3 joints - pressure out 40 bbl



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 28914
LOCATION Caldoy, Ks
FOREMAN Walt Dinkel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-14-10	5659	Mars 1-4	4	20 ^s	23 ^w	Ness
CUSTOMER Well Digs Co.			TRUCK #			
MAILING ADDRESS 1700 N. Waterfront Parkway, Bldg 1200			DRIVER			
CITY Wichita			TRUCK #			
STATE Kan			DRIVER			
ZIP CODE 67206			TRUCK #			
			DRIVER			

JOB TYPE Prod HOLE SIZE 7 7/8 HOLE DEPTH 4785' CASING SIZE & WEIGHT 5 7/8 116^{lb}
 CASING DEPTH 4730' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 1116 DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 BPPM

REMARKS: - Safety working, Rig up to P/ps + Circ, Rig up to Tank and mixed
Lead: 120 sks 6% paper, 3% cal, 1/4" Fluoroc
Tail: 150 sks 5% paper, 10% salt, 2% cal, 25% CFI-110
Clear Pump lines, release Plug and Displace 107 1/2 BBL Water @ 900^{psi} Max
Loaded Plug @ 1300^{psi} released Pressure, had slight leak, shut in

Thank You
Walt Dinkel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5461 C	1	PUMP CHARGE	2730 ⁰⁰	2730 ⁰⁰
5406	10	MILEAGE 10 mile From Nearest Camp	45 ⁰⁰	450 ⁰⁰
1131	150	6 9/16 pipe	13 ⁰⁰	1950 ⁰⁰
1124	150	5 7/8 pipe	1175	17625 ⁰⁰
1111	861 #	Salt	140	34440 ⁰⁰
1118 B	256 #	Coal	120	5720 ⁰⁰
1107	38 #	Fluoroc	250	9500 ⁰⁰
1135	32 #	CFI-110	900	28800 ⁰⁰
1144 G	500 gal	Fluoroc	100	50000 ⁰⁰
5407	1283	Ten mile Delivery	150	39000 ⁰⁰
4203	1	Curve Slice (.5%)	18400	18400 ⁰⁰
4228 B		AEI insert	14500	14500 ⁰⁰
4136		24-T. sh. p. d. l. .	1000	1000 ⁰⁰