

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACD-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 5144

Name: Mull Drilling Co., Inc.

Address P.O. Box 2758

City/State/Zip Wichita, Kansas 67201-  
2758

Purchaser: Eaglewing Trading, Inc.

Operator Contact Person: Scott Hampel

Phone (316) 264-6366 ext. 12

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Roger Martin

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.

Gas  ENHR  SIGW

Dry  Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-Entry: old well info as follows: NO

Well No. 1998 Date FEB 27

Old Total Depth CONFIDENTIAL

Re-perf.  Conv. to Inj/SWD  PBDT

Commingled  Docket No.         

Dual Completion  Docket No.         

Other (SWD or Inj?)  Docket No.         

Spud Date 11-01-96 Date Reached TD 11-09-96 Completion Date 12-4-96

API NO. 15-135-23962 0000

County Ness County, Kansas

SE - SE - SE - Sec. 5 Twp. 19S Rgn. 24 XX <sup>E</sup>

330 Feet from S (circle one) Line of Section

330 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE.  NW or SW (circle one)

Lease Name Borger Well # 6

Field Name McDonald

Producing Formation Mississippian-Warsaw

Elevation: Ground 2328' KB 2337'

Total Depth 4450' PBDT 4450'

Amount of Surface Pipe Set and Cemented at 211 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1670 Feet

If Alternate II completion, cement circulated from 1670

feet depth to 650 w/ 190 sx cnt.

Drilling Fluid Management Plan ALT 2 JN 3-23-98  
(Data must be collected from the Reserve (t))

Chloride content 8300 ppm Fluid volume          bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:         

Operator Name         

Lease Name          License No.         

Quarter          Sec.          Twp.          S Rgn.          E/W         

County          Kansas No.         

RELEASED  
FEB 26 1998  
FROM CONFIDENTIAL

RECEIVED  
STATE CORPORATION COMMISSION  
FEB 26 1998  
CONSERVATION DIVISION  
Wichita, Kansas

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Scott E. Hampel

Title Vice President Prod & Eng. Date 2/27/97

Subscribed and sworn to before me this 27th day of February 19 97.

Notary Public Dannis R. Britt

Date Commission Expires March 26, 1999

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
E  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

Operator Name Mull Drilling Co., Inc.

Lease Name Borger

Well # 6

Sec. 5 Twp. 19S Rge. 24

East  
 West

County Harper County, Kansas

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SC/Anhydrite	1604	+ 733
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	B/SC Anhydrite	1642	+ 695
List All E.Logs Run: Atlas		Heebner	3707	-1370
DIFL/GR/SP		Lansing	3749	-1412
ZDLC/CN/GR		B/KC	4063	-1726
ML/CAL		Pawnee	4176	-1839
		Ft Scott	4258	-1921
		Cherokee	4282	-1945
		Mississippian LS	4352	-2015
		Warsaw Dolo	4360	-2023
		Osage	4431	-2094

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
Surface	12-1/4"	New 8-5/8"	23#	211	60/40 Poz	140	3% cc 2% gel
Production	7-7/8"	Used 5-1/2"	14#	4449	EA-2	100	5#/sk Gilsonite 5% calseal
		Stage 2		1670	MidConII	190	3% cc

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
	4	4368'-4372'	11-19-96	Acidized perfs w/500 gals 20% DS FE/NE	
			+ 3 gals 340 inhibitor. (11/21/96 25 sx common, 10% salt, 2% cc.)		
4	4368'-4372'	11-26-96	Acidized perfs w/250 gals 15% MCA + 1/2 gal inhibitor + 1/2 gas non-emulsifier + 1/2 gal silt suspender		

TUBING RECORD		Size 2 3/8"	Set At 4288'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 12/4/97		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 1/8/97	Oil Bbls. 33	Gas Mcf 0	Water Bbls. 78	Gas-Oil Ratio	Gravity 35.8

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACD-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

Production Interval: 4368-4372



HALLIBURTON

JOB SUMMARY

DIVISION HALLIBURTON LOCATION

HAYS, KS

BILLED ON TICKET NO. 103992

WELL DATA

FIELD \_\_\_\_\_ SEC 5 TWP. 19S RING. 24W COUNTY NESS STATE KS

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_
INITIAL PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD
PRESENT PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD
COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ FLUID WT. \_\_\_\_\_
PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_
MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

ORIGINAL

CONFIDENTIAL

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAXIMUM PSI ALLOWABLE. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

TOOLS AND ACCESSORIES

Table with columns: TYPE AND SIZE, QTY., MAKE. Rows include FLOAT COLLAR, FLOAT SHOE, AUTO FILLUP, CENTRALIZERS, BOTTOM PLUG, TOP PLUG, HEAD, BASKETS, OTHER DV Tool.

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API
DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API
PROP. TYPE \_\_\_\_\_ LB.
PROP. TYPE \_\_\_\_\_ LB.
ACID TYPE \_\_\_\_\_ GAL.
ACID TYPE \_\_\_\_\_ GAL.
ACID TYPE \_\_\_\_\_ GAL.
SURFACTANT TYPE \_\_\_\_\_ IN.
NE AGENT TYPE \_\_\_\_\_ GAL.
FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB.
GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB.
FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB.
BREAKER TYPE \_\_\_\_\_ GAL.-LB.
BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB.
PERF PAC BALLS TYPE \_\_\_\_\_ QTY.
OTHER \_\_\_\_\_
OTHER \_\_\_\_\_

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Table with columns: CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Rows include DATE and TIME for each.

Table with columns: NAME, UNIT NO. & TYPE, LOCATION. Rows include personnel names and their assigned units.

DEPARTMENT \_\_\_\_\_ DESCRIPTION OF JOB 5 1/2" 2 STAGE LONGSTRING

TOTAL PIPE - 4475
DV TOOL e 1672 @ TOP JT # 70
JOB DONE THRU: TUBING \_\_\_\_\_ CASING \_\_\_\_\_ ANNULUS \_\_\_\_\_ TBG./ANN. \_\_\_\_\_

CUSTOMER REPRESENTATIVE \_\_\_\_\_ HALLIBURTON OPERATOR \_\_\_\_\_ CORES REQUESTED \_\_\_\_\_

CEMENT DATA

Table with columns: STAGE, NUMBER OF SACKS, CEMENT, BRAND, BULK SACKED, ADDITIVES, YIELD CU.FT./SK., MIXED LBS./GAL. Rows include 100, 155, 35 sacks.

PRESSURES IN PSI
CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_
HYDRAULIC HORSEPOWER \_\_\_\_\_
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_
AVERAGE RATES IN BPM \_\_\_\_\_
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_
CEMENT LEFT IN PIPE \_\_\_\_\_
FEET 41.90' REASON BAFFLE

SUMMARY
PRESLUSH \_\_\_\_\_ 20 1/2 \_\_\_\_\_ TYPE \_\_\_\_\_
LOAD & BKON: BBL-GAL \_\_\_\_\_ PAD-BBL-GAL \_\_\_\_\_
TREATMENT: BBL-GAL 1ST 2ND \_\_\_\_\_ DISP. \_\_\_\_\_ 105.5
CEMENT SLURRY \_\_\_\_\_ 29.8 / 9.1-12.8 = 103.9
TOTAL VOLUME BBL-GAL \_\_\_\_\_
REMARKS \_\_\_\_\_

CUSTOMER



HALLIBURTON **CONFIDENTIAL**

DATE 11-9-96 PAGE 1

JOB LOG HAL-2013-C

CUSTOMER <b>MULL DRILLING</b>	WELL NO. <b>6</b>	LEASE <b>BORGER</b>	JOB TYPE <b>5 1/2" LONGSTRING</b>	TICKET NO. <b>103712</b>
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (OIL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0230							CALLS W/ ORIGINAL
	0630							ON LOCATION - BEGINS JOB PROCEDURE - CONNECTION ON BOTTOM W/ D.P.
	1400							DROP BALL
	1415							BREAK CIRCULATION - MOD PUMP - 1/2 HOURS
1	1545	5	20		✓		200	PUMP CLEAR II PREFLOW
	1550	5	12		✓		200	PUMP MODIFIED
	1553	6	24.3		✓		200	MIX CEMENT
	1600							WASH OUT PUMP - LEAKS
	1601							DROP 1 <sup>ST</sup> STAGE PLUG
	1603	7	0		✓			DISPLACE PLUG - H2O 64.5 MOD 41
	1621		105.5				1200	PLUG DOWN
	1624						OK	RELEASE PST - HELD
	1626							DROP OPENING PLUG
	1637				✓		715	OPEN MULTI-STAGE - CMTR FEB 27
	1637	3	4					BREAK CIRCULATION ... CONFIDENTIAL
	1639	6	103.9		✓		250	MIX CEMENT
	1655							WASH OUT PUMP - LEAKS
	1656							DROP 2 <sup>ND</sup> STAGE PLUG
	1659	5	0		✓			DISPLACE PLUG
	1605		40.4				400	PLUG DOWN
							1700	PST UP CLOSE - MULTI-STAGE - CMTR.
								CIRCULATION 25 SLS CEMENT TO PST
	1604						OK	RELEASE PST - HELD
								WASH UP
								RACK UP
	1800							JOB COMPLETE

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FEB 27 1997  
CONSERVATION DIVISION  
Wichita, Kansas  
THANK YOU  
WAGLE, DALE CRAIG



HALLIBURTON ENERGY SERVICES

HAL-1906-P

CHARGE TO: **RELEASED**  
 ADDRESS: **MULL DRELLING**  
 CITY STATE ZIP CODE: **APR 6 1998**  
**FROM CONFIDENTIAL**

CUSTOMER COPY

TICKET

103992 -

FEB 20 1997  
 No. 11-976  
 CONSERVATION DIVISION  
 WICHAFF, Kansas

PAGE 1 OF 2

1. <b>117-18</b>	WELL SUBJECT NO: <b>b</b>	LEASE: <b>BORGAR</b>	COUNTY/PARISH: <b>ALCO</b>	STATE: <b>KS</b>	CITY/SECTION/LOCATION: <b>10/12/11</b>	OWNER: <b>3/17</b>
2.	TICKET TYPE: <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR: <b>DUKE DRELLING</b>	RIG NAME/NO:	SHIPPED VIA: <b>SEUR</b>	DELIVERED TO: <b>11-976</b>
3.	WELL TYPE: <b>01</b>	WELL CATEGORY: <b>01</b>	JOB PURPOSE: <b>035</b>	WELL PERMIT NO: <b>15135 2396 20000</b>	WELL LOCATION: <b>5 - 195 - 24</b>	
4.	REFERRAL LOCATION:	INVOICE INSTRUCTIONS:				

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		U/M	U/M			
000-117	ORIGINAL CONFIDENTIAL	1			MILEAGE	120	M	2.99		358
001-016		1			PUMP SERVICES 1 <sup>ST</sup> STAGE	4450	FT	1720.00		1720
007-101		1			PUMP SERVICES 2 <sup>ND</sup> STAGE	1612	FT	1550.00		1550
013-215		1			MUDFILTING	500	KAL	65		325
214-103		1			CURTAIN	2	LN	28.00		56
26		817.6218	1		FRONT SIDE - INSERT VALVE	1	LN	350.00		350
27		815.19313	1		AUTO FALL UP	1	LN	69.00		69
40		806.60022	1		CONDUITS	8	LN	22.50		180
71		813.56215	1		MANIFOLD - 5" DIA. S. METER 65.0	1	LN	2150.00		2150
75		813.16510	1		PLUG SET - FUEL FALL - 2 STAGE	1	LN	400.00		400
320	100.88823	1		BASKETS	2	LN	110.00		220	
350	870.10802	1		WALDO WELD "A"	1	LN	16.75		16	

**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 *Carl D. Smythley*

DATE SIGNED: **11-11-97** TIME SIGNED: **0100**

do  do not require IPC (Instrument Protection)  Not altered

TYPE LOCK	DEPTH	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	8036
BEAM SIZE	SPACERS		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				
TYPE OF EQUALIZING SUB.	CASING PRESSURE	WE UNDERSTOOD AND MET YOUR NEEDS?					
TUBING SIZE	TUBING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	14642

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): *Carl D. Smythley*

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): X *Carl D. Smythley*

HALLIBURTON OPERATOR/ENGINEER: *WALDO WILSON*

HALLIBURTON APPROVAL: *[Signature]*

02/13/97 11:41 FAX 719 767 8994 MULL C W OFFICE +++ MULL WICHITA

# ALLIED CEMENTING CO., INC.

1194

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

**CONFIDENTIAL**

**ORIGINAL**

SERVICE POINT:

Umo Bone

DATE <u>11-1-86</u>	SEC. <u>5</u>	TWP. <u>19</u>	RANGE <u>24</u>	CALLED OUT <u>4 AM</u>	ON LOCATION <u>5 AM</u>	JOB START <u>7 AM</u>	JOB FINISH <u>8 AM</u>
LEASE <u>Borgar</u>	WELL # <u>6</u>	LOCATION <u>Ness City 4W 13S 4E</u>			COUNTY <u>Ness</u>	STATE <u>K.S.</u>	

OLD OR  NEW (Circle one)

CONTRACTOR <u>Duke Drilling Rig #4</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface Pipe Job</u>	CEMENT
HOLE SIZE <u>124 T.D. 21 1/2"</u>	AMOUNT ORDERED <u>140 @ 37cc 27 gal</u>
CASING SIZE <u>10" NUP</u>	
TUBING SIZE _____	
DRILL PIPE _____	
TOOL _____	
PRES. MAX <u>160"</u>	MINIMUM _____
MEAS. LINE <u>196'</u>	SHOE JOINT _____
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS. <u>Displacement 12" bbl</u>	

COMMON <u>84</u>	@ <u>6.10</u>	<u>512.40</u>
POZMIX <u>56</u>	@ <u>3.15</u>	<u>176.40</u>
GEL <u>2</u>	@ <u>9.50</u>	<u>19.00</u>
CHLORIDE <u>4</u>	@ <u>28.00</u>	<u>112.00</u>
	@ _____	_____
	@ _____	_____
	@ _____	_____
	@ _____	_____
	@ _____	_____
	@ _____	_____
HANDLING <u>140</u>	@ <u>1.05</u>	<u>147.00</u>
MILEAGE <u>5</u>	Min	<u>80.00</u>

**EQUIPMENT**

FEB 27

PUMP TRUCK # <u>120</u>	CEMENTER <u>Mike m</u>	HELPER <u>Diane s.</u>
BULK TRUCK # _____	DRIVER _____	
BULK TRUCK # <u>116</u>	DRIVER <u>Diane W.</u>	

TOTAL \$ 1046.80

**REMARKS:**

Circulate the hole with Rig mud pump  
mix cement + Release Plug  
Displace Plug down with water  
Cement did Circulate to surface

STATE COMMISSION  
FEB 26 1987  
DIVISION

**SERVICE**

DEPTH OF JOB <u>21 1/2"</u>	
PUMP TRUCK CHARGE	<u>445.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE <u>5</u>	@ <u>2.85</u> <u>14.25</u>
PLUG <u>1-8" wooden plug</u>	@ <u>45.00</u> <u>45.00</u>
	@ _____
	@ _____

RELEASED

APR 6 1988

TOTAL \$ 504.25

CHARGE TO: Mull Drilling Co Inc  
STREET P.O. Box 2758  
CITY Wichita STATE K.S. ZIP 67201-2758

FROM CONFIDENTIAL FLOAT EQUIPMENT

*Thank you  
Allied Cementing Co Inc  
Mike + Diane + Pumps*

	@ _____	_____
	@ _____	_____
	@ _____	_____
	@ _____	_____
	@ _____	_____

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \$ 1551.05

DISCOUNT \$ 232.66 IF PAID IN 30 DAYS

Net \$ 1318.39

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE R. Wheeler

C CONFIDENTIAL



Ricketts Testing, Inc.

ORIGINAL

15-135-23962

Company MULL DRILLING CO., INC. Lease & Well No. BORGER #6
Elevation 2337 K. B. Formation MISSISSIPPI Effective Pay \_\_\_\_\_ ft. Ticket No. 1842
Date 11-8-96 Sec. 5 Twp. 19 Range 24W County NESS State KANSAS
Test Approved by ROGER MARTIN Ricketts Representative JIM RICKETTS

Formation Test No. 1 Interval Tested from 4321 ft. to 4370 ft. Total Depth 4370 ft.

Packer Depth 4321 ft. Size 6 3/4 in. FEB 27 Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 4318 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4326 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 4329 ft. Recorder Number 13306 Cap. 4625

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor Duke Drilling Rig #4 Drill Collar Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.

Mud Type Chemical Viscosity 55 Weight Pipe Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.

Weight 9.5 Water Loss 9.2 cc. Drill Pipe Length 4301 I.D. 3.25 in.

Chlorides 2500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 49 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Gravity Oil 36 degrees Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 xh in.

Blow: Strong blow Initial Flow Period. Off bottom in 7 minutes. RELEASED

Strong blow Final Flow Period. Off bottom in 15 minutes. APR 6 1998

Recovered 240 ft. of Gas in pipe.

Recovered 380 ft. of Clean gassy oil (5.4 bbls) FROM CONFIDENTIAL

Recovered 104 ft. of Gassy oil cut mud. 17% Gas 3% Oil 80% Mud (1.48 bbls)

Recovered 124 ft. of Gassy heavy oil cut mud. 28% Gas 32% Oil 40% Mud (1.76 bbls)

Recovered 124 ft. of Gassy very slightly oil cut watery mud. 20% Gas 2% Oil 8% Water 70% Mud (1.76 bbls)

Remarks: DST Fluid Chlorides 16,000 ppm

Time Set Packer (s) 4:47 A.M. Time Started Off Bottom 8:32 A.M. Maximum Temperature 121 degrees

Initial Hydrostatic Pressure (A) 2197 P.S.I.

Initial Flow Period Minutes 30 (B) 81 P.S.I. to (C) 125 P.S.I.

Initial Closed In Period Minutes 45 (D) 1201 P.S.I.

Final Flow Period Minutes 90 (E) 169 P.S.I. to (F) 296 P.S.I.

Final Closed In Period Minutes 60 (G) 1139 P.S.I.

Final Hydrostatic Pressure (H) 2186 P.S.I.

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# RICKETTS TESTING, INC.

## Pressure Data

Date 11-8-96 Test Ticket No. 1842  
 Recorder No. 13307 Capacity 4650 Location 4326 Ft.  
 Clock No. \_\_\_\_\_ Elevation 2337 K.B. Well Temperature 121 °F

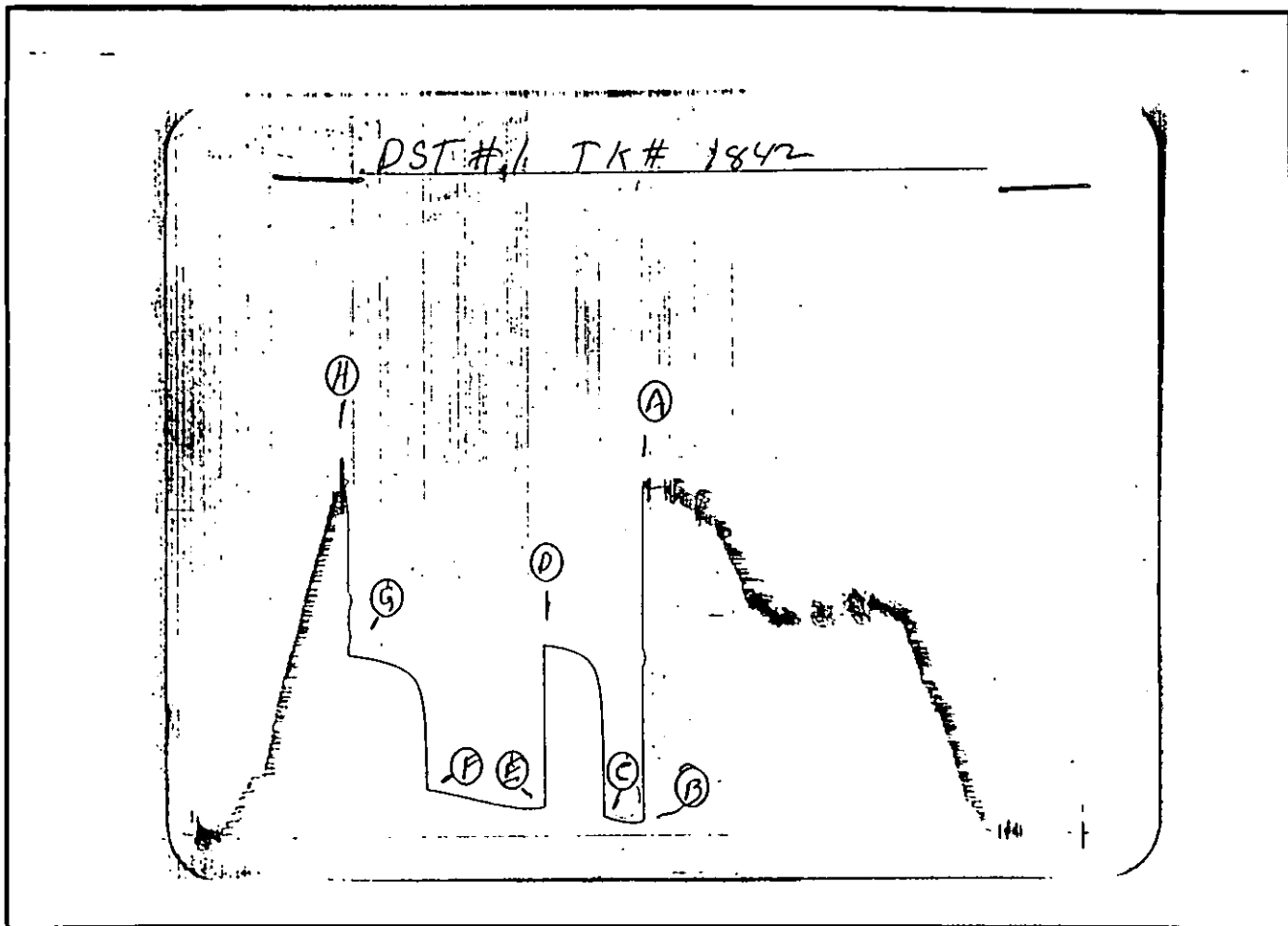
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2197</u> P.S.I.		<u>4:47</u> A.M.	
B First Initial Flow Pressure	<u>81</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>125</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1201</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>169</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>296</u> P.S.I.			
G Final Closed-in Pressure	<u>1139</u> P.S.I.			
H Final Hydrostatic Mud	<u>2186</u> P.S.I.			

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### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>6</u> Inc.		Initial Shut-In Breakdown: <u>15</u> Inc.		Second Flow Pressure Breakdown: <u>18</u> Inc.		Final Shut-In Breakdown: <u>20</u> Inc.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>81</u>	<u>0</u>	<u>125</u>	<u>0</u>	<u>169</u>	<u>0</u>	<u>296</u>	<u>0</u>
P 2	<u>81</u>	<u>3</u>	<u>924</u>	<u>3</u>	<u>169</u>	<u>3</u>	<u>826</u>	<u>3</u>
P 3	<u>85</u>	<u>6</u>	<u>1032</u>	<u>6</u>	<u>173</u>	<u>6</u>	<u>921</u>	<u>6</u>
P 4	<u>92</u>	<u>9</u>	<u>1078</u>	<u>9</u>	<u>179</u>	<u>9</u>	<u>983</u>	<u>9</u>
P 5	<u>102</u>	<u>12</u>	<u>1113</u>	<u>12</u>	<u>183</u>	<u>12</u>	<u>1010</u>	<u>12</u>
P 6	<u>110</u>	<u>15</u>	<u>1128</u>	<u>15</u>	<u>187</u>	<u>15</u>	<u>1032</u>	<u>15</u>
P 7	<u>125</u>	<u>18</u>	<u>1144</u>	<u>18</u>	<u>194</u>	<u>18</u>	<u>1051</u>	<u>18</u>
P 8		<u>21</u>	<u>1155</u>	<u>21</u>	<u>202</u>	<u>21</u>	<u>1065</u>	<u>21</u>
P 9		<u>24</u>	<u>1165</u>	<u>24</u>	<u>208</u>	<u>24</u>	<u>1075</u>	<u>24</u>
P10		<u>27</u>	<u>1173</u>	<u>27</u>	<u>217</u>	<u>27</u>	<u>1085</u>	<u>27</u>
P11		<u>30</u>	<u>1180</u>	<u>30</u>	<u>222</u>	<u>30</u>	<u>1094</u>	<u>30</u>
P12		<u>33</u>	<u>1190</u>	<u>33</u>	<u>238</u>	<u>33</u>	<u>1101</u>	<u>33</u>
P13		<u>36</u>	<u>1193</u>	<u>36</u>	<u>251</u>	<u>36</u>	<u>1108</u>	<u>36</u>
P14		<u>39</u>	<u>1195</u>	<u>39</u>	<u>259</u>	<u>39</u>	<u>1116</u>	<u>39</u>
P15		<u>42</u>	<u>1198</u>	<u>42</u>	<u>266</u>	<u>42</u>	<u>1121</u>	<u>42</u>
P16		<u>45</u>	<u>1201</u>	<u>45</u>	<u>273</u>	<u>45</u>	<u>1124</u>	<u>45</u>
P17		<u>48</u>		<u>48</u>	<u>280</u>	<u>48</u>	<u>1127</u>	<u>48</u>
P18		<u>51</u>		<u>51</u>	<u>288</u>	<u>51</u>	<u>1130</u>	<u>51</u>
P19		<u>54</u>		<u>54</u>	<u>296</u>	<u>54</u>	<u>1133</u>	<u>54</u>
P20		<u>57</u>		<u>57</u>		<u>57</u>	<u>1136</u>	<u>57</u>
		<u>60</u>		<u>60</u>		<u>60</u>	<u>1139</u>	<u>60</u>





This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2204	2197	PSI
(B) First Initial Flow Pressure	69	81	PSI
(C) First Final Flow Pressure	127	125	PSI
(D) Initial Closed-in Pressure	1194	1201	PSI
(E) Second Initial Flow Pressure	150	169	PSI
(F) Second Final Flow Pressure	301	296	PSI
(G) Final Closed-in Pressure	1147	1139	PSI
(H) Final Hydrostatic Mud	2181	2186	PSI

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