

ORIGINAL

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

CONFIDENTIAL

Operator: License # 5144

Name: Mull Drilling Company, Inc.

Address 221 N. Main, Suite #300

City/State/Zip Wichita, KS 67201

Purchaser: N/A

Operator Contact Person: Scott Hampel

Phone (316) 264-6366

Contractor: Name: Abercromble RTD, Inc.

License: 30684

Wellsite Geologist: _____

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: _____

Operator: N/A

Well Name: _____

Comp. Date 11-20-97 11-26-97 11-28-97

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

11-20-97 11-26-97 11-28-97
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,663 ~~0000~~

County Logan plugged 11/28/97

NW - NW - NE - 25 Sec. Twp. 14S Rge. 33 E W

330 Feet from S (circle one) Line of Section

2450 Feet from E (circle one) Line of Section

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

Lease Name McGuire Well # 1-25

Field Name Wildcat

Producing Formation _____

Elevation: Ground 2682' KB 2687'

Total Depth 4600' PBTD _____

Amount of Surface Pipe Set and Cemented at 219.20 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 219.20

feet depth to Surface w/ 160 sx cmt.

Drilling Fluid Management Plan D&A 97 8-24-98
(Data must be collected from the Reserve Pit)

Chloride content 22,000 ppm Fluid volume 1250 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name 109-20,663 License No. _____

Quarter 1 Sec. 25 Twp. 14S Rng. 33 E/W

County Logan Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 Hampel

Title VP-Production & Engineering Date 1/12/98

Subscribed and sworn to before me this 12th day of January 19 98.

Notary Public Tannis L. Tritt

Date Commission Expires March 26, 1999

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
JAN 14 1998 Distribution
KCC SMD/Rep NGPA
KGS Plug Other (Specify)
01-14-98

TANNIS L. TRITT
Notary Public - State of Kansas
My Appt. Expires 3-26-99

Operator Name Mull Drilling Company, Inc. Lease Name McGuire Well # 1-25
 Sec. 25 Twp. 14S Rge. 33 East County Logan West

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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run:

SCHLUMBERGER: BHC Sonic Gamma Ray;
 Platform Express CNL-LDT-GR-PE,
 Array Induction & Microlog Gamma Ray

Log		Formation (Top), Depth and Datum			Sample	
Name	TOP	DATUM	NAME	TOP	DATUM	
Stone Corral	2126	+ 561	Ft Scott	4242	-1555	
B/Stone Corral	2148	+ 539	Cherokee Sh	4270	-1583	
Wabaunsee	3286	- 599	Johnson	4316	-1629	
Topeka	3420	- 733	T/Cher Sd	4475	-1788	
Heebner	3654	- 967	B/Cher Sd	4499	-1812	
L/KC	3696	-1009	Miss	4507	-1820	
Stark Shale	3962	-1275	LTD	4597	-1910	
B/KC	4038	-1351				
Marmaton	4080	-1393				
Pawnee	4184	-1497				

CASING RECORD New 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"	8 5/8"	20#	219.20	60/40 poz	160	2% gel, 3% cc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: P&A	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		60/40 Poz	190	6% gel; 1/4# floseal

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
	N/A				

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
N/A					
Date of First, Resumed Production, SMD or Inj.		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
D&A					
Estimated Production Per 24 Hours	Oil <u>N/A</u> Bbls.	Gas <u>N/A</u> Mcf	Water <u>N/A</u> Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** **Production Interval**
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled _____
 (If vented, submit ACO-18.) Other (Specify) _____

ALLIED CEMENTING CO., INC.

8625

Federal Tax I.D.#

ORIGINAL

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

SERVICE POINT:

Oakley

DATE <u>11-21-97</u>	SEC <u>25</u>	TWP. <u>14^s</u>	RANGE <u>33^w</u>	CALLED OUT	ON LOCATION <u>2:00 AM</u>	JOB START <u>3:45 AM</u>	JOB FINISH <u>3:00 AM</u>
LEASE <u>McGuinn</u>	WELL # <u>1-25</u>	LOCATION <u>Oakley 235, 3'6W-2N</u>			COUNTY <u>Logan</u>	STATE <u>Kan</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Abercrombie RTD #8 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 225'

CASING SIZE 8 5/8 DEPTH 219'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT

CEMENT AMOUNT ORDERED 160 SKS 60/90 per

3%acc - 2% cel

CONFIDENTIAL

COMMON 96 SKS @ 7.55 = 724.80

POZMIX 68 SKS @ 3.25 = 208.00

GEL 3 SKS @ 9.00 = 28.00

CHLORIDE 5 SKS @ 28.00 = 140.00

@

@

@

@

@

HANDLING 160 SKS @ 1.05 = 168.00

MILEAGE 44 per sk mile = 179.20

TOTAL 1,448.00

EQUIPMENT

REFUSED

PUMP TRUCK CEMENTER Walt JAN 29 1998

191 HELPER Jeff

BULK TRUCK # 315 DRIVER R. B FROM CONFIDENTIAL

BULK TRUCK # DRIVER

REMARKS:

Did C/C

Another Job Well Done (By A.M.)

SERVICE

DEPTH OF JOB 219'

PUMP TRUCK CHARGE 470.00

EXTRA FOOTAGE @

MILEAGE 28-miles @ 2.85 = 79.80

PLUG 8 5/8 Surface @ 45.00

@

@

TOTAL 594.80

CHARGE TO: Mull Drlg

STREET P.O. Box 421

CITY Ness City STATE Kan ZIP 67560

JAN 9 1998

FLOAT EQUIPMENT

@

STATE

COMMERCIAL

JAN 9 A 1998

@

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.

TOTAL

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Anthony Martin

Anthony Martin
PRINTED NAME

ALLIED CEMENTING CO., INC. 9459

15-109-20663-00-00

Federal Tax I.D.#

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

ORIGINAL

SERVICE POINT: Oakley

DATE <u>11-27-97</u>	SEC. <u>25</u>	TWP. <u>14</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>11:00 AM</u>	JOB START <u>12:30 PM</u>	JOB FINISH <u>3:00 PM</u>
LEASE <u>Mc Guire</u>	WELL# <u>1-25</u>	LOCATION <u>Oakley 23S, 3 1/2 W-2N</u>			COUNTY <u>Logan</u>	STATE <u>Kan</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Abercrombie RTD #8 OWNER Same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4600' CEMENT AMOUNT ORDERED 190 sks 60/90 per

CASING SIZE _____ DEPTH _____
TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 x H DEPTH CONFIDENTIAL 6% Gel, 44# Flo-Seal

TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOBT JOINT _____

CEMENT LEFT IN CSG. _____
PERFS. _____ JAN 29 1998

DISPLACEMENT _____

EQUIPMENT CONFIDENTIAL

PUMP TRUCK CEMENTER Walt

191 HELPER Wayne

BULK TRUCK _____ DRIVER _____

BULK TRUCK _____ DRIVER _____

COMMON	<u>114</u>	SKS	@	<u>7.55</u>	<u>860.70</u>
POZMIX	<u>76</u>	SKS	@	<u>3.25</u>	<u>247.00</u>
GEL	<u>10</u>	SKS	@	<u>9.50</u>	<u>95.00</u>
CHLORIDE			@		
	<u>Flo-Seal</u>	<u>48#</u>	@	<u>1.15</u>	<u>55.20</u>
			@		
			@		
			@		
			@		
HANDLING	<u>190</u>	SKS	@	<u>1.05</u>	<u>199.50</u>
MILEAGE	<u>44 per sk/mile</u>				<u>212.80</u>
TOTAL					<u>1,620.20</u>

REMARKS: CONFIDENTIAL SERVICE

25 sks @ 2150' DEPTH OF JOB 2150'

100 sks @ 1000' PUMP TRUCK CHARGE 580.00

40 sks @ 275' EXTRA FOOTAGE _____

10 sks @ 40' MILEAGE 28-miles @ 2.85 79.80

15 sks in BH PLUG 8 5/8 D.H. @ _____ 23.00

TOTAL 682.80

CHARGE TO: Mull Drlg
STREET P.O. Box 421
CITY Ness City STATE Kan ZIP 67560

FLOAT EQUIPMENT

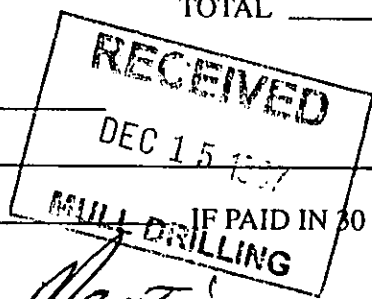
To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS"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

SIGNATURE Anthony Martin

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

TOTAL _____

TAX _____
TOTAL CHARGE _____
DISCOUNT _____



PRINTED NAME Anthony Martin

RELEASED

JAN 29 1999

DST REPORT

FROM CONFIDENTIAL

GENERAL INFORMATION

CONFIDENTIAL

15-109-20663

DATE : 11-26-1997	TICKET : 22663
CUSTOMER : MULL DRILLING COMPANY INC	LEASE : McGUIRE <i>MUC</i>
WELL : SVGA	GEOLOGIST : RANDY SAY <i>JAN 13</i>
ELEVATION: 2687 K.B. : ORIGINAL	FORMATION:
SECTION : 25	TOWNSHIP : 14
RANGE : 33W	COUNTY: LOGAN
GAUGE SN#: 13551	STATE : KS <i>CONFIDENTIAL</i>
	RANGE : 4150
	CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4465.00 ft TO: 4485.00 ft TVD: 4600.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 4470.0 ft 4473.0 ft
 TEMPERATURE: 117.0

DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 600.0 ft	I.D.:	3.200 in
DRILL PIPE LENGTH : 3959.0 ft	I.D.:	3.800 in
NEST TOOL LENGTH : 21.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 20.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5 XH
PACKER DEPTH: 4460.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4473.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : ABERCROMBIE RIG #8	VISCOSITY : 47.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 9.600 cc
WEIGHT : 9.100 ppg	
CHLORIDES : 3400 ppm	SERIAL NUMBER:
JARS-MAKE : NONE	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK TO STRONG BLOW OFF BOTTOM
 OF BUCKET IN 12 MINS.
 FINAL FLOW PERIOD WEAK TO STRONG BLOW OFF BOTTOM

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

IN 12 MINS.

ORIGINAL

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1252.0	0.0	0.0	95.0	5.0	MUDDY WATER

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.7557 STB	AVERAGE WATER RATE:	362.7164 STB/D
WATER VOLUME:	14.3575 STB		
TOTAL FLUID :	15.1132 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2299.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	62.00	115.00
INITIAL SHUT-IN	30.00		1191.00
FINAL FLOW	45.00	209.00	366.00
FINAL SHUT-IN	90.00		1233.00

FINAL HYDROSTATIC PRESSURE: 2227.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2305.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	110.56	143.03
INITIAL SHUT-IN	30.00		1224.31
FINAL FLOW	45.00	237.55	386.38
FINAL SHUT-IN	90.00		1242.03

FINAL HYDROSTATIC PRESSURE: 2231.00

Company: MULL DRILLING COMPANY INC.
 Well: MCGUIRE SVGA DST #1
 Field: TKT #22663

[Wednesday: Nov. 26, 1997
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	0: 0:41	0.0000	110.56
6	0	0: 1:17	0.0099	100.96
11	0	0: 1:52	0.0198	95.70
16	0	0: 2:28	0.0297	93.94
21	0	0: 3: 4	0.0397	91.30
26	0	0: 3:40	0.0497	90.40
31	0	0: 4:16	0.0597	89.51
36	0	0: 4:52	0.0697	88.61
41	0	0: 5:28	0.0796	89.46
46	0	0: 6: 4	0.0897	90.30
51	0	0: 6:40	0.0997	92.02
56	0	0: 7:16	0.1097	93.74
61	0	0: 7:52	0.1197	96.32
66	0	0: 8:28	0.1297	98.91
71	0	0: 9: 4	0.1398	101.50
76	0	0: 9:40	0.1498	104.96
81	0	0:10:17	0.1598	108.42
86	0	0:10:53	0.1699	111.88
91	0	0:11:29	0.1799	115.33
96	0	0:12: 5	0.1900	118.79
101	0	0:12:41	0.2000	123.12
106	0	0:13:17	0.2100	125.71
111	0	0:13:53	0.2201	130.04
116	0	0:14:29	0.2301	133.50
121	0	0:15: 6	0.2402	138.70
126	0	0:15:42	0.2502	143.03
END FLOW 1				
START SHUTIN 1				
130	0	0:16:12	0.2586	170.01
131	0	0:16:51	0.2694	839.76
135	0	0:17:23	0.2783	902.45
139	0	0:17:53	0.2867	933.78
143	0	0:18:23	0.2951	965.12
147	0	0:18:53	0.3034	993.84
152	0	0:19:30	0.3137	1012.92
157	0	0:20: 7	0.3239	1031.98
162	0	0:20:44	0.3341	1045.83
167	0	0:21:21	0.3443	1059.68
172	0	0:21:57	0.3544	1071.80
177	0	0:22:34	0.3646	1083.05
182	0	0:23:10	0.3747	1092.56
187	0	0:23:46	0.3848	1102.08
192	0	0:24:23	0.3949	1110.73
197	0	0:24:59	0.4050	1120.24
202	0	0:25:36	0.4151	1127.16
207	0	0:26:12	0.4252	1133.20
212	0	0:26:48	0.4353	1139.25
217	0	0:27:24	0.4453	1144.43
222	0	0:28: 0	0.4554	1147.87
227	0	0:28:37	0.4654	1153.05
232	0	0:29:13	0.4755	1158.23
237	0	0:29:49	0.4855	1161.67
242	0	0:30:25	0.4956	1165.99
247	0	0:31: 1	0.5056	1169.43

Company: MULL DRILLING COMPANY INC.
 Well: McGUIRE SVGA DST #1
 Field: TKT #22663

[Wednesday: Nov. 26, 1997
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
252	0	0:31:37	0.5156	1172.01
257	0	0:32:14	0.5257	1175.45
262	0	0:32:50	0.5357	1178.03
267	0	0:33:26	0.5458	1182.34
272	0	0:34: 2	0.5558	1184.05
277	0	0:34:38	0.5658	1187.49
282	0	0:35:14	0.5758	1190.07
287	0	0:35:50	0.5859	1192.65
292	0	0:36:26	0.5959	1195.22
297	0	0:37: 2	0.6059	1197.80
302	0	0:37:38	0.6159	1200.38
307	0	0:38:14	0.6259	1202.09
312	0	0:38:51	0.6360	1203.80
317	0	0:39:27	0.6460	1206.37
322	0	0:40: 3	0.6560	1208.08
327	0	0:40:39	0.6660	1210.66
332	0	0:41:15	0.6761	1212.37
337	0	0:41:51	0.6861	1214.08
342	0	0:42:27	0.6961	1215.79
347	0	0:43: 3	0.7061	1217.50
352	0	0:43:39	0.7161	1218.34
357	0	0:44:15	0.7261	1220.05
362	0	0:44:51	0.7361	1221.76
367	0	0:45:27	0.7461	1223.47
372	0	0:46: 3	0.7561	1224.31
		END SHUTIN 1		
		START FLOW 2		
376	0	0:46:21	0.7611	237.55
378	0	0:46:35	0.7650	235.80
383	0	0:47:11	0.7750	234.03
388	0	0:47:47	0.7850	232.27
393	0	0:48:23	0.7950	232.24
398	0	0:48:59	0.8049	231.35
403	0	0:49:35	0.8149	231.32
408	0	0:50:11	0.8249	232.17
413	0	0:50:47	0.8349	232.14
418	0	0:51:23	0.8449	232.99
423	0	0:51:59	0.8549	233.83
428	0	0:52:35	0.8650	236.42
433	0	0:53:11	0.8750	239.01
438	0	0:53:47	0.8850	240.72
443	0	0:54:23	0.8950	243.31
448	0	0:54:59	0.9050	245.90
453	0	0:55:35	0.9151	249.36
458	0	0:56:12	0.9251	251.95
463	0	0:56:48	0.9352	255.41
468	0	0:57:24	0.9452	257.12
473	0	0:58: 0	0.9552	260.58
478	0	0:58:36	0.9652	264.04
483	0	0:59:12	0.9753	266.63
488	0	0:59:48	0.9853	269.21
493	0	1: 0:24	0.9953	272.67
498	0	1: 1: 0	1.0054	275.26
503	0	1: 1:36	1.0154	277.85
508	0	1: 2:13	1.0254	280.44

Company: MULL DRILLING COMPANY INC.
 Well: McGUIRE SVGA DST #1
 Field: TKT #22663

[Wednesday: Nov. 26, 1997
 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
513	0	1: 2:49	1.0354	282.15
518	0	1: 3:25	1.0454	284.74
523	0	1: 4: 1	1.0555	287.33
528	0	1: 4:37	1.0655	289.92
533	0	1: 5:13	1.0755	292.50
538	0	1: 5:49	1.0855	294.22
543	0	1: 6:25	1.0956	295.94
548	0	1: 7: 1	1.1056	298.53
553	0	1: 7:37	1.1156	300.24
558	0	1: 8:13	1.1256	302.83
563	0	1: 8:49	1.1357	305.42
568	0	1: 9:26	1.1457	308.01
573	0	1:10: 2	1.1557	310.59
578	0	1:10:38	1.1657	313.18
583	0	1:11:14	1.1757	314.90
588	0	1:11:50	1.1858	317.49
593	0	1:12:26	1.1958	320.07
598	0	1:13: 2	1.2058	322.66
603	0	1:13:38	1.2158	324.38
608	0	1:14:14	1.2259	326.97
613	0	1:14:50	1.2359	328.68
618	0	1:15:26	1.2459	330.40
623	0	1:16: 2	1.2559	333.86
628	0	1:16:38	1.2659	335.57
633	0	1:17:15	1.2760	338.16
638	0	1:17:51	1.2860	340.75
643	0	1:18:27	1.2960	343.34
648	0	1:19: 3	1.3060	345.05
653	0	1:19:39	1.3161	347.64
658	0	1:20:15	1.3261	349.36
663	0	1:20:51	1.3361	351.95
668	0	1:21:27	1.3461	353.66
673	0	1:22: 3	1.3561	355.38
678	0	1:22:39	1.3662	357.97
683	0	1:23:15	1.3762	359.69
688	0	1:23:51	1.3862	362.27
693	0	1:24:27	1.3962	363.99
698	0	1:25: 4	1.4062	365.71
703	0	1:25:40	1.4162	368.29
708	0	1:26:16	1.4263	370.88
713	0	1:26:52	1.4363	372.60
718	0	1:27:28	1.4463	375.19
723	0	1:28: 4	1.4563	376.90
728	0	1:28:40	1.4664	379.49
733	0	1:29:16	1.4764	381.21
738	0	1:29:52	1.4864	382.92
743	0	1:30:28	1.4964	386.38
		END FLOW 2		
		START SHUTIN 2		
748	0	1:31:26	1.5124	840.12
752	0	1:31:57	1.5211	893.23
756	0	1:32:27	1.5295	920.21
761	0	1:33: 5	1.5399	951.54
766	0	1:33:42	1.5502	976.77
771	0	1:34:19	1.5604	994.16

Company: MULL DRILLING COMPANY INC.
 Well: McGUIRE SVGA DST #1
 Field: TKT #22663

[Wednesday: Nov. 26, 1997
 Page 4

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
776	0	1:34:55	1.5706	1005.44
781	0	1:35:32	1.5807	1015.82
786	0	1:36: 8	1.5908	1027.07
791	0	1:36:45	1.6010	1037.45
796	0	1:37:21	1.6111	1046.10
801	0	1:37:57	1.6212	1053.88
806	0	1:38:34	1.6313	1062.53
811	0	1:39:10	1.6414	1070.31
816	0	1:39:46	1.6515	1078.09
821	0	1:40:23	1.6616	1085.87
826	0	1:40:59	1.6716	1091.92
831	0	1:41:35	1.6817	1097.97
836	0	1:42:11	1.6918	1103.15
841	0	1:42:48	1.7018	1109.19
846	0	1:43:24	1.7119	1114.37
851	0	1:44: 0	1.7220	1118.68
856	0	1:44:36	1.7320	1122.99
861	0	1:45:12	1.7421	1128.17
866	0	1:45:49	1.7521	1131.62
871	0	1:46:25	1.7621	1135.93
876	0	1:47: 1	1.7722	1138.51
881	0	1:47:37	1.7822	1141.95
886	0	1:48:13	1.7923	1145.39
891	0	1:48:49	1.8023	1147.97
896	0	1:49:25	1.8123	1150.55
901	0	1:50: 1	1.8223	1153.12
906	0	1:50:38	1.8324	1156.57
911	0	1:51:14	1.8424	1159.15
916	0	1:51:50	1.8524	1160.86
921	0	1:52:26	1.8624	1164.30
926	0	1:53: 2	1.8724	1166.01
931	0	1:53:38	1.8825	1168.59
936	0	1:54:14	1.8925	1170.30
941	0	1:54:50	1.9025	1172.87
946	0	1:55:26	1.9125	1173.72
951	0	1:56: 2	1.9225	1175.42
956	0	1:56:38	1.9326	1178.00
961	0	1:57:14	1.9426	1179.71
966	0	1:57:50	1.9526	1181.42
971	0	1:58:26	1.9626	1183.13
976	0	1:59: 3	1.9726	1184.84
981	0	1:59:38	1.9826	1184.82
986	0	2: 0:15	1.9926	1186.52
991	0	2: 0:51	2.0026	1188.23
996	0	2: 1:27	2.0127	1189.94
1001	0	2: 2: 3	2.0227	1191.65
1006	0	2: 2:39	2.0327	1192.50
1011	0	2: 3:15	2.0427	1193.34
1016	0	2: 3:51	2.0527	1195.05
1021	0	2: 4:27	2.0627	1196.76
1026	0	2: 5: 3	2.0727	1197.60
1031	0	2: 5:39	2.0827	1198.44
1036	0	2: 6:15	2.0927	1199.28
1041	0	2: 6:51	2.1027	1200.99
1046	0	2: 7:27	2.1127	1201.84

Company: MULL DRILLING COMPANY INC.
 Well: McGUIRE SVGA DST #1
 Field: TKT #22663

[Wednesday: Nov. 26, 1997
 Page 5

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1051	0	2: 8: 3	2.1227	1201.81
1056	0	2: 8:39	2.1327	1203.52
1061	0	2: 9:15	2.1427	1204.36
1066	0	2: 9:51	2.1528	1205.21
1071	0	2:10:27	2.1628	1206.05
1076	0	2:11: 3	2.1727	1206.89
1081	0	2:11:39	2.1828	1207.73
1086	0	2:12:15	2.1928	1208.57
1091	0	2:12:51	2.2028	1209.42
1096	0	2:13:27	2.2128	1210.26
1101	0	2:14: 3	2.2228	1211.10
1106	0	2:14:39	2.2328	1211.94
1111	0	2:15:15	2.2428	1212.79
1116	0	2:15:51	2.2528	1212.76
1121	0	2:16:27	2.2628	1213.60
1126	0	2:17: 3	2.2728	1214.45
1131	0	2:17:39	2.2828	1215.29
1136	0	2:18:15	2.2928	1215.26
1141	0	2:18:51	2.3028	1216.97
1146	0	2:19:27	2.3128	1216.95
1151	0	2:20: 3	2.3228	1217.79
1156	0	2:20:39	2.3328	1217.77
1161	0	2:21:15	2.3428	1218.61
1166	0	2:21:51	2.3528	1218.58
1171	0	2:22:27	2.3628	1219.42
1176	0	2:23: 3	2.3728	1219.40
1181	0	2:23:39	2.3828	1220.24
1186	0	2:24:15	2.3928	1221.08
1191	0	2:24:51	2.4028	1221.93
1196	0	2:25:27	2.4128	1221.90
1201	0	2:26: 3	2.4228	1223.61
1206	0	2:26:39	2.4328	1223.59
1211	0	2:27:15	2.4428	1224.43
1216	0	2:27:51	2.4528	1225.27
1221	0	2:28:27	2.4628	1225.25
1226	0	2:29: 3	2.4728	1226.09
1231	0	2:29:39	2.4828	1226.93
1236	0	2:30:15	2.4928	1226.91
1241	0	2:30:51	2.5028	1227.75
1246	0	2:31:27	2.5128	1228.59
1251	0	2:32: 3	2.5227	1228.57
1256	0	2:32:39	2.5328	1229.41
1261	0	2:33:15	2.5428	1229.38
1266	0	2:33:51	2.5527	1229.36
1271	0	2:34:27	2.5628	1231.07
1276	0	2:35: 3	2.5728	1231.91
1281	0	2:35:39	2.5828	1232.75
1286	0	2:36:15	2.5928	1232.73
1291	0	2:36:51	2.6027	1232.70
1296	0	2:37:27	2.6128	1233.54
1301	0	2:38: 3	2.6227	1233.52
1306	0	2:38:39	2.6327	1233.49
1311	0	2:39:15	2.6427	1234.34
1316	0	2:39:51	2.6527	1235.18
1321	0	2:40:27	2.6627	1235.15

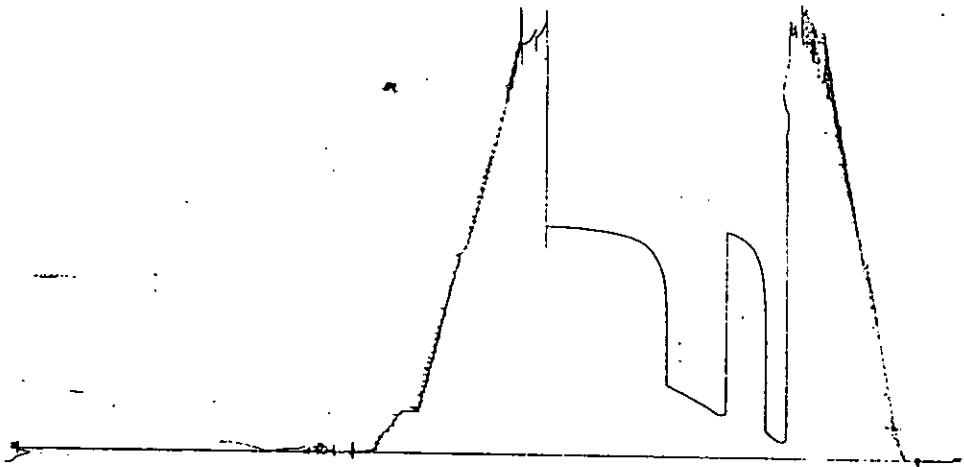
Company: MULL DRILLING COMPANY INC.
 Well: MCGUIRE SVGA DST #1
 Field: TKT #22663

[Wednesday: Nov. 26, 1997
 Page 6

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1326	0	2:41:3	2.6727	1235.13
1331	0	2:41:39	2.6827	1235.97
1336	0	2:42:15	2.6927	1235.95
1341	0	2:42:51	2.7027	1236.79
1346	0	2:43:27	2.7127	1236.76
1351	0	2:44:3	2.7227	1236.74
1356	0	2:44:39	2.7327	1236.71
1361	0	2:45:15	2.7427	1237.56
1366	0	2:45:51	2.7527	1237.53
1371	0	2:46:27	2.7627	1237.51
1376	0	2:47:3	2.7727	1237.48
1381	0	2:47:39	2.7827	1237.46
1386	0	2:48:15	2.7926	1237.43
1391	0	2:48:51	2.8027	1238.27
1396	0	2:49:27	2.8126	1238.25
1401	0	2:50:3	2.8226	1239.09
1406	0	2:50:39	2.8326	1239.07
1411	0	2:51:15	2.8426	1239.04
1416	0	2:51:51	2.8526	1239.02
1421	0	2:52:27	2.8626	1238.99
1426	0	2:53:2	2.8726	1238.97
1431	0	2:53:38	2.8826	1238.94
1436	0	2:54:14	2.8926	1239.78
1441	0	2:54:50	2.9026	1240.62
1446	0	2:55:26	2.9126	1240.60
1451	0	2:56:2	2.9226	1240.57
1456	0	2:56:38	2.9326	1241.42
1461	0	2:57:14	2.9426	1241.39
1466	0	2:57:50	2.9526	1241.37
1471	0	2:58:26	2.9626	1241.34
1476	0	2:59:2	2.9726	1241.32
1481	0	2:59:38	2.9825	1241.29
1486	0	3:0:14	2.9925	1241.27
1491	0	3:0:50	3.0025	1241.24
1496	0	3:1:26	3.0125	1241.22
1501	0	3:2:2	3.0225	1242.06
1506	0	3:2:38	3.0325	1242.03

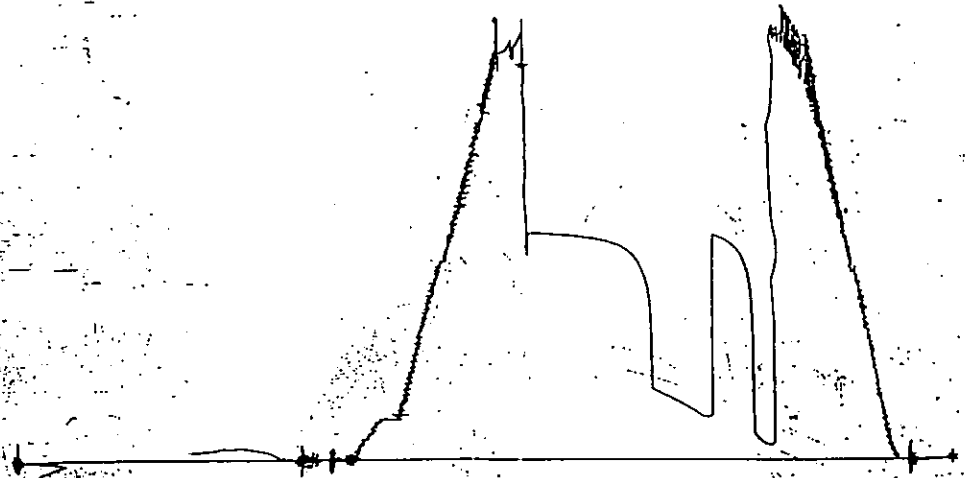
WESTERN TESTING CO., INC.

13551
DST 1

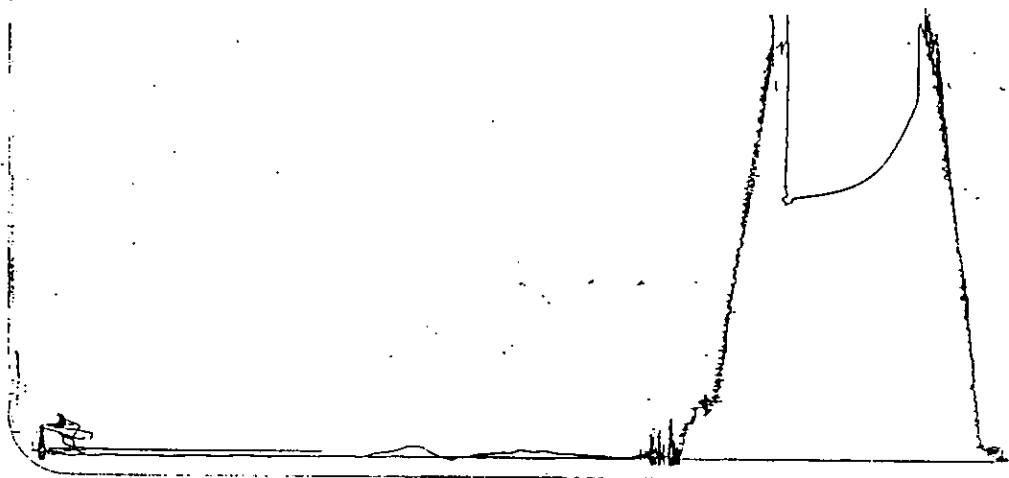


Inside Recorder

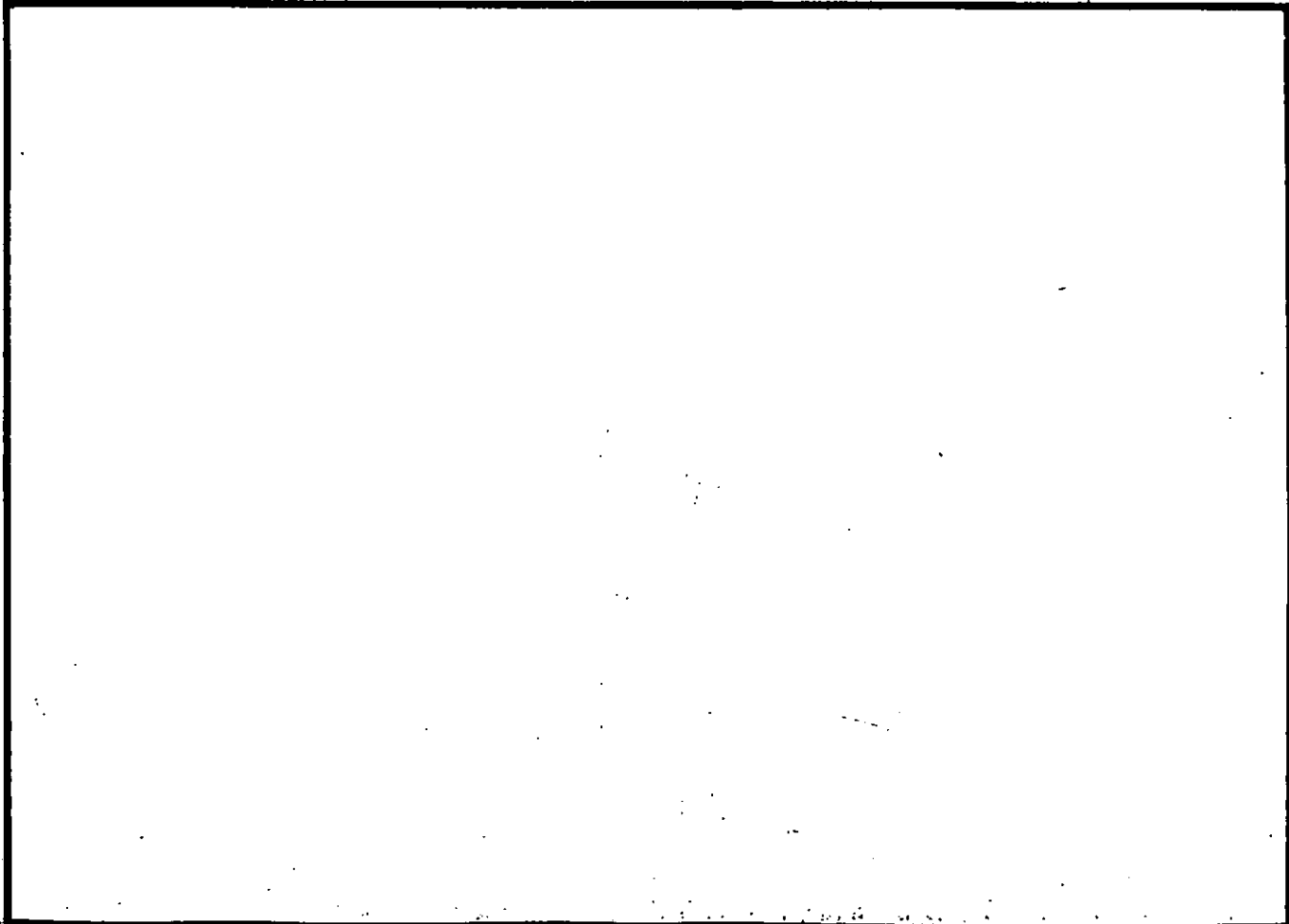
13266
DST 1



13268
DST1



Inside Recorder



15-109-20663-00-00

ORIGINAL

RELEASED

JAN 29 1999

CONFIDENTIAL

FROM CONFIDENTIAL

MULL DRILLING COMPANY
MCGUIRE-SVGA NO.1-25
NW NE SEC.25-T14S-R33W
LOGAN COUNTY KANSAS

15-109-20663

WELLSITE GEOLOGY
BY
RSAY ENTERPRISES
RANDY SAY - GEOLOGIST
ARVADA, COLORADO

ncc

JAN 13

CONFIDENTIAL

WELL DATA

15-109-20663-00-00

OPERATOR: Mull Drilling Company, Wichita, KS.

WELL NAME: McGuire-SVGA No.1-25.

FIELD NAME / PROSPECT: Wildcat.

LOCATION: 330' fnl 2450' fwl NW NE SEC.25-T14S-R33W, Logan Co., KS.

ELEVATION: 2683'- Ground; 2687'-KB.

SPUD DATE: 11/20/97.

COMPLETION DATE: 11/27/97.

STATUS: Plugged and abandoned 11/27/97.

HOLE SIZE: 12.250"-224'-Surface; 7.825"-TD[4600'].

CASING: 8.625"-219'-Surface casing; No production casing run.

DRILL COLLARS / PIPE: 6.25" / 4.50".

TOTAL DEPTH: 4600'(-1913') - Driller; 4597'(-1910') Electric Log.

CONTRACTOR: Abercrombie Drilling Co., Inc., RIG NO.8.

GEOLOGIST: Randy Say- RSay Enterprises.

ENGINEER: Scott Hample - Mull, Wichita, KS.

MUD COMPANY: Mud Co, Denver, CO.

MUD TYPE: NATIVE (SURFACE-3500'); CHEMICAL (3500' - TD [4600']).

MUDLOGGING: None.

DRILL STEM TEST: DST NO.1 4465'-4485'(20') - Cherokee Sand - Straddle Test.

CORES: None.

ELECTRIC LOGS: Schlumberger Well Services, Liberal, KS.
Engineer: Michael Martino.

ORIGINAL

CONFIDENTIAL

LOGS RUN	INTERVAL
CNL-LDT-GR-PE	3500'-4579'
ARRAY-INDUCTION	219'-4589'
BHC SONIC	219'-4547'
MICROLOG	3500'-4579'

nuc
JAN 15
CONFIDENTIAL

LOCATION MAP

1227
1770

23

24

11

MULL DRILLING COMPANY
McGuire-SVGA No.1-25
NW NE SEC.25-T14S-R33W, Logan Co., KS

○

26

25

30

1226
1793

1227
1790

○ -1242
1800

● -1228
1792

Donald Slawson
Peters F No.2
SE NE NW SEC.36-T14S-R33W
Logan Co., KS
Beaver Butte Field

● -1218
1779

○ -1227
1791

36

31

35

○ 1230
1796

BIT RECORD, DEVIATION SURVEYS, AND ELECTRIC LOG FORMATION TOPS

NO.	MAKE	TYPE	SIZE	DEPTH OUT	FOOTAGE	HOURS	FT/HR	DEV/DEPTH
1	REED	TGC	12.250	224	224	3.50	64.00	0.50° - 224'
2	WM	42CHF	7.875"	4600	4376	98.00	44.65	1.75° - 4600'

DEVIATION SURVEYS

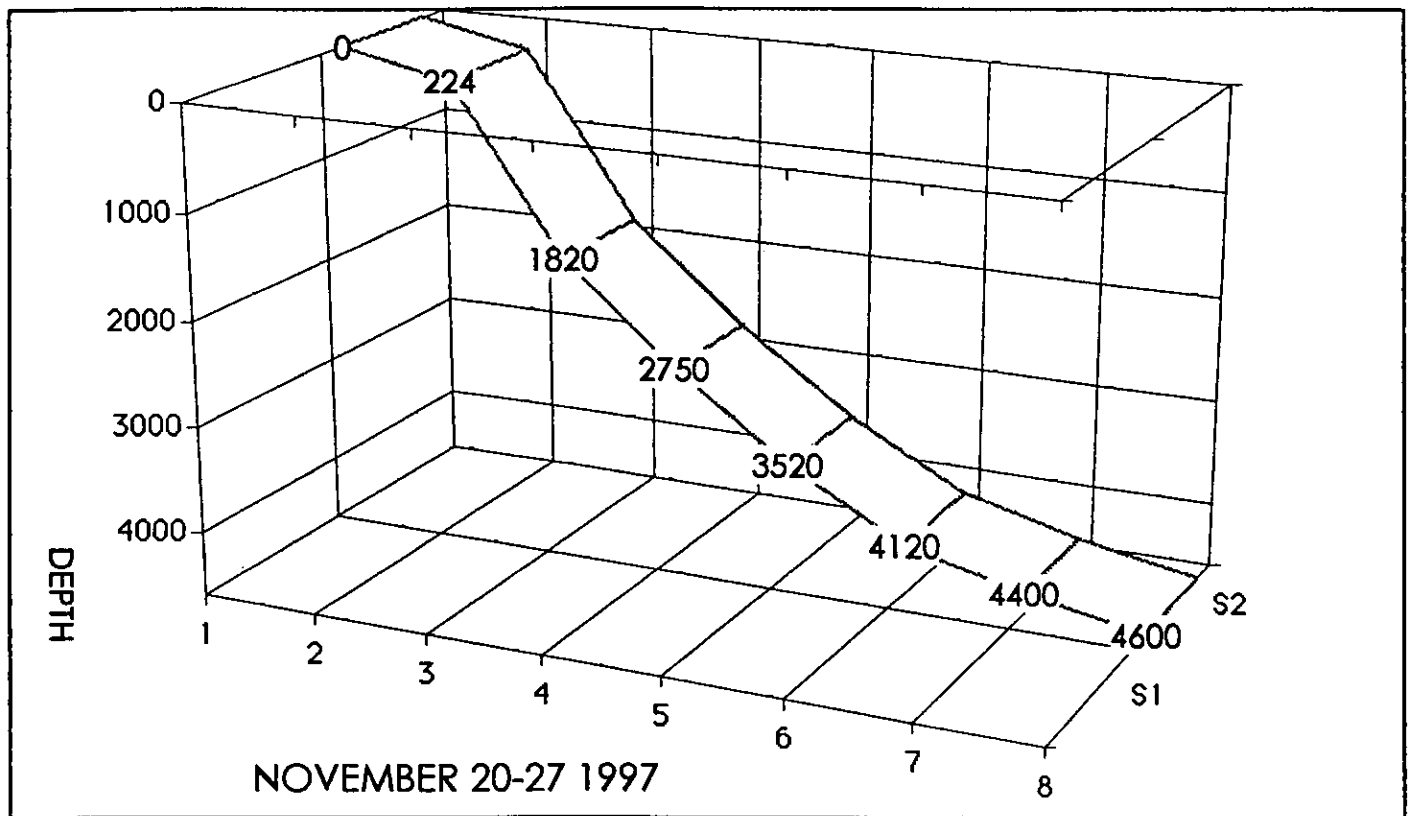
DEVIATION	DEPTH	DEVIATION	DEPTH	DEVIATION	DEPTH
0.50°	224'				
0.75°	4600'				

FORMATION /ZONE	DEPTH (FEET)	DATUM(KB-2687')
Stone Corral	2126	561
Stone Corral-Base	2148	539
Wabaunsee	3286	-599
Topeka	3420	-733
Queen Hill	3590	-903
Oread	3604	-917
Heebner	3654	-967
Toronto	3674	-987
Lansing Kansas City	3696	-1009
A zone	3696	-1009
B zone	3740	-1053
C zone	3756	-1069
D zone	3790	-1103
E zone	3800	-1113
F zone	3816	-1129
Muncie Creek	3866	-1179
G zone	3866	-1179
H zone	3883	-1196
I Zone	3912	-1225
J Zone	3938	-1251
Stark Shale	3962	-1275
K Zone	3980	-1293
L Zone	4014	-1327
Base Kansas City	4038	-1351
Pleasanton	4048	-1361
Marmaton	4080	-1393
Altamont A	4104	-1417
Altamont B	4130	-1443
Altamont C	4150	-1463
Pawnee	4184	-1497
Myrick Station	4218	-1531
Fort Scott	4242	-1555
Cherokee Shale	4270	-1583
Johnson Zone	4316	-1629
Conglomerate	4386	-1699
Cherokee Sand-Top	4475	-1788
Cherokee Sand-Base	4499	-1812
Mississippian	4507	-1820
TOTAL DEPTH(DRILLER)	4600	-1913
TOTAL DEPTH(ELECTRIC LOG)	4597	-1910

DAILY DRILLING CHRONOLOGY

DATE	DEPTH	24HR FOOTAGE	DRILLING ACTIVITIES
11/20	0000	0000	RIG UP, SPUD WELL W/NB1 [12.250"], DRLG, SURF HOLE TO 224', CIRC & COND HOLE, RUN SURF CSG [8.625"] TO 219' CMT SURF CSG, W.O.C.
21	224	224	Drlg, CMT W/NB2 [7.825"], Drlg.
22	1820	1549	Drlg.
23	2750	930	Drlg.
24	3520	770	Drlg, Losing circ at 3200', Regain circ, Drlg.
25	4120	600	Drlg, CFS, Drlg.
26	4400	280	Drlg, CFS, Drlg.
27	4600	200	Drlg, CFS, Drlg, REACH TD [4600 @ 10:30 A.M. CIRC & COND, TOO H FOR ELOGS, RUN ELOGS, W.O.O., TIH W/DST No.1 [4465'-4485'] Run DST No.1 TOO H and Lay Down Tools, W.O.O., Plug and abandon hole.

DAILY DRILLING CHRONOLOGY



15-109-20663-00-00

ELECTRIC LOG CORRELATION

RSWSG9713		Mull Drilling Company									Donald C. Stawson		
MULL9713		McGuire-SVGA No.1-25									Peters F No.2		
		330ftd 24501e1											
		NW NE SEC.25-T14S-R33W									SE NE NW SEC.34-T14S-R33W		
		Logan Co., KS									Logan Co., KS		
		Wildcat P&A									Beaver Butte Field		
		11/27/97									7/26/83		
TIME STRAT	ROCK STRATIGRAPHIC	PROG	SMPL	DATUM-KB	ELOG	DATUM-KB	THICK	ELEV	DIFF.	E-LOG	DATUM-KB	THICK	
						2687		NO.1	NO.2			2835	
PERMIAN	STONE CORRAL	2110			2126	561	24	-24		2250	585	20	
	STONE CORRAL (BASE)	2130			2148	539		-26		2270	565		
PENNSYLVANIAN	WABAUNSEE	3265			3286	-599		-34		3400	-565		
	TOPEKA	3385			3420	-733		-36		3532	-697		
	QUEEN HILL				3590	-903		-40		3698	-863		
	OREAD				3604	-917		-41		3711	-876		
	HEEBNER	3630			3654	-967		-42		3760	-925		
	TORONTO				3674	-987		-43		3779	-944		
	LANSING KANSAS CITY	3672			3696	-1009		-44		3800	-965		
	A ZONE				3696	-1009		-44		3800	-965		
	B ZONE				3740	-1053		-51		3837	-1002		
	C ZONE				3756	-1069		-46		3858	-1023		
	D ZONE				3790	-1103		-46		3892	-1057		
	E ZONE				3800	-1113		-50		3898	-1063		
	F ZONE				3816	-1129		-47		3917	-1082		
	MUNCIE CREEK				3866	-1179		-51		3963	-1128		
	G ZONE				3866	-1179		-51		3963	-1128		
	H ZONE				3883	-1196		-49		3982	-1147		
	I ZONE				3912	-1225		-49		4011	-1176		
	J ZONE				3938	-1251		-49		4037	-1202		
	STARK SHALE	3930			3962	-1275		-47		4063	-1228		
	K ZONE				3980	-1293		-48		4080	-1245		
	L ZONE				4014	-1327		-48		4114	-1279		
	BASE KANSAS CITY	4005			4038	-1351		-56		4130	-1295		
	PLEASANTON				4048	-1361		-60		4136	-1301		
	MARMATON	4040			4080	-1393		-58		4170	-1335		
	ALTAMONT A				4104	-1417		-61		4191	-1356		
	ALTAMONT B				4130	-1443		-66		4212	-1377		
	ALTAMONT C				4150	-1463		-70		4228	-1393		
	PAWNEE	4135			4184	-1497		-67		4265	-1430		
	MYRICK STATION				4218	-1531		-66		4300	-1465		
	FORT SCOTT	4200			4242	-1555		-73		4317	-1482		
	CHEROKEE SHALE	4225			4270	-1583		-75		4343	-1508		
	JOHNSON ZONE	4280			4316	-1629		-75		4389	-1554		
	CONGLOMERATE	4334			4386	-1699		-92		4442	-1607		
	CHEROKEE SAND-TOP				4475	-1788	24						
	CHEROKEE SAND-BASE				4499	-1812							
MISSISSIPPIAN	MISSISSIPPIAN				4507	-1820		-189		4466	-1631		
	TOTAL DEPTH(DRILLER)	4600			4600	-1913		-198		4550	-1715		
	TOTAL DEPTH(ELECTRIC LOG)				4597	-1910		-196		4549	-1714		

15-109-20663-00-00



WESTERN TESTING CO., INC.
FORMATION TESTING

Page 8
TICKET No. 22663

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 2687 KB Formation _____ Eff. Pay _____ Ft. _____

District Colby Date 11-26-97 Customer Order No. _____

COMPANY NAME Mull Drilling Company Inc

ADDRESS P.O. Box 2758 Wichita, Kansas 67201

LEASE AND WELL NO. McGuire SVGA COUNTY Logan STATE Kans Sec. 25 Twp. 14 Rge. 33W

Mail Invoice To Same No. Copies Requested neg
Co. Name _____ Address _____

Mail Charts To same No. Copies Requested neg
Address _____

Formation Test No. DST1 Interval Tested From 4465 ft. to 4485 ft. Total Depth 4600 ft.

Packer Depth 4460 ft. Size 6 5/8 in. Packer Depth 4485 ft. Size 6 5/8 in.

Packer Depth 4465 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4470 ft. Recorder Number 13551 Cap. 4150

Bottom Recorder Depth (Outside) 4473 ft. Recorder Number 13266 Cap. 4000

Below Straddle Recorder Depth 4600 ft. Recorder Number 260413268 Cap. 4150

Drilling Contractor Abercrombie Drg #8 Drill Collar Length _____ I. D. _____ in.

Mud Type Chem Viscosity 47 Weight Pipe Length 600 I. D. 3.2 in.

Weight 9.1 Water Loss 9.6 cc. Drill Pipe Length 3959 I. D. 3.8 in.

Chlorides 3,400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? _____ Reversed Out yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 KH in.

Blow: FF-weak to strong blow off bottom of bucket in 10 min.

FF-weak to strong blow off bottom of bucket in 12 min.

Recovered 1352 ft. of Muddy water total fluid recover y

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides 43,000 P.P.M. Sample Jars used _____ Remarks: _____

Time On Location 10:00 A.M. Time Pick Up Tool 11:15 A.M. Time Off Location _____ A.M.

Time Set Packer(s) 111 A.M. Time Started Off Bottom 4:11 A.M. Maximum Temperature 117°

Initial Hydrostatic Pressure _____ (A) 2299 P.S.I.

Initial Flow Period _____ Minutes 15 (B) 62 P.S.I. to (C) 115 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 1191 P.S.I.

Final Flow Period _____ Minutes 45 (E) 209 P.S.I. to (F) 366 P.S.I.

Final Closed In Period _____ Minutes 90 (G) 1233 P.S.I.

Final Hydrostatic Pressure _____ (H) 2227 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 18% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Pandy Jay
Signature of Customer or his authorized representative

Western Representative Steve Eisenham

Thanks

FIELD INVOICE

Open Hole Test	\$ _____
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Shale Packer	\$ _____
Extra Packer	\$ _____
Circ. Sub	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Elect. Rec.	\$ _____
Fax	\$ _____
TOTAL	\$ _____

SHOW EVALUATION

OVERVIEW

The Mull Drilling Company McGuire-SVGA No.1-25 [NW NE SEC.25-T14S-R33W, Logan Co., KS] was drilled as a wildcat well with a primary objective of the Pennsylvanian Cherokee Sand. The Cherokee Sand, when it does develop, sits on top of the Mississippian Lime and is expressed as a fluvial sand. The Mull McGuire-SVGA No.1-25 prospect was drilled on an indication of a seismic expression of a Cherokee Sand development on top of the Mississippian Lime. The McGuire-SVGA No.1-25 did indeed develop a 24 foot sand with good porosity [16 to 26 percent density porosity]. Thin, silty, and poorly developed sand stringers started to develop at the Conglomerate zone at 4386'(-1699') and increased in grain size down into the main Cherokee Sand interval. The No.1-25 Cherokee Sand [4475'(-1788') to 4499'(-1812')] was drill stem tested [DST No.1 4465'-4485'(20')] after samples and electric logs were evaluated. DST No.1 recovered 1252 feet of muddy water with no trace of hydrocarbons in the pipe recovery. The final shut in pressure was 1233 p.s.i. indicating good reservoir pressure and permeability. No sample shows were found in the cuttings from the Cherokee section. The presence of quartz overgrowths and secondary alteration in the base of the sand indicated the development of a water sand. The structural position of the McGuire-SVGA was 92 feet low at the top of the Conglomerate zone. The McGuire-SVGA No.1-25 Cherokee Sand was determined to be nonproductive after samples and electric logs were evaluated. For a more detailed Cherokee Sand sample description, see below.

SECONDARY OBJECTIVES

The secondary objectives were the Pennsylvanian Lansing Kansas City, Marmaton and the Mississippian and Spergen and Osage formations. None of the secondary zones warranted drill stem testing either while drilling or after electric logs were evaluated. The Lansing Kansas City A-L Zones developed one show [SHOW NO.1 3816'-3832'(16')(-1129')] in the F Zone. The F Zone was a wet zone with a poor residual show and a trace of dead oil stain. No drill stem test was run over the F Zone after samples and electric logs were evaluated and it was determined to be nonproductive. None of the other Lansing Zones, or the Marmaton and Mississippian zones had shows and were not drill stem tested.

STRUCTURE

Structurally, the Mull McGuire-SVGA NO.1-25 [NW NE SEC.25-T14S-R33W] was 92 foot low to the reference offset/control well, the Slawson Peters F No.2 in the Beaver Butte Field one mile to the south [SE NE NW SEC.36-14S-R33W] at the top of the Conglomerate Zone [4386'(-1699') versus 4442'(-1607')].

STATUS

The Mull Drilling Company No.1-25 was plugged and abandoned on November 27 1997 after samples, electric log, and drill stem test data were evaluated.

FORMATION AND SHOW ZONE LISTING

The ensuing Show Evaluation listings are in the order they were drilled. They are categorized either by formation name and or by common zone designation.

The wellsite geologist began sample descriptions at 3600 feet, just above the Oread at 3604'(-917'). Ten foot samples were taken from 3600'-TD[4600']. Listed below are SHOW No.1 in the Lansing Kansas City F Zone and a sample description for the Cherokee Sand interval of 4475'-4499'(24'). No other sample shows were found in the other potential zones.

LANSING KANSAS CITY 3696'(-1009') PENNSYLVANIAN

F ZONE 3816'(-1129')

SHOW NO.1 3816'-3832'(16'). 1.0'/ft vs 3.0'/ft.

LITHOLOGY: LS crm-wh litho-gran vfri-mfirm ool text w/ocastic Ø vchky occ fos shly pyr.

POROSITY: P-occ FR(ool).

OIL STAIN: Rare trace dead stn.

FLOR: TR pale yel.

CUT: TR pale mlky diffuse cut.

RESIDUE: None.

SHOW EVALUATION

CHEROKEE SHALE 4270'(-1583').

PENNSYLVANIAN

CHEROKEE SAND 4475'-4499'(24')(-1788').

LITHOLOGY: SS wh-ltgy-incr clr f-mg-incr cg at base, fri-uncon grs sbang-sbrd msrt cal cmted clus at top of zone, incr to dolo cmted clus toward base & assoc w/qtz ovrgths, occ vf disasem pyr w/in grs(m-cg), incr clner mtrx w/ depth, occ sh prtgs & carb mat, & cly infill at top of zone.

POROSITY: G-FR(decr w/cmt).

OIL STAIN: None.

FLOR: None.

CUT: None.

RESIDUE: None.