



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Inc**

ATTN: Phil Askey

Scherler #1-10

10-17s-45w Kiowa,CO

Start Date: 2014.08.28 @ 15:04:25

End Date: 2014.08.28 @ 21:29:50

Job Ticket #: 59279 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.04 @ 10:26:51

Mull Drilling Inc 10-17s-45w Kiowa,CO Scherler #1-10 DST # 1 Miss Spergen 2014.08.28

DRILL STEM TEST # ONE

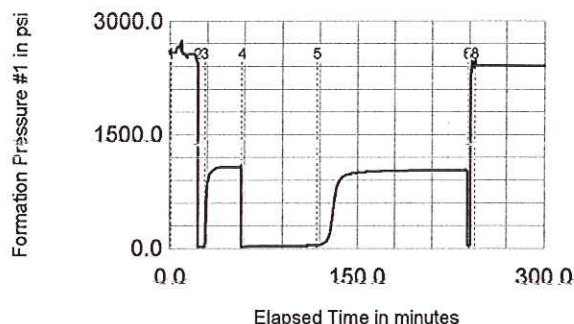
SCHERLER #1-10

849' FNL & 952' FEL SEC10 TWP17S RGE45W

Well Operator MULL DRILLING COMPANY INC.
 Well Name SCHERLER #1-10
 Location 849' FNL & 952' FEL SEC10 TWP17S RGE45W
 API# 05-061-06893-00
 License#
 Test Interval 5257.5 - 5278.0 ftKB
 Formation MISSISSIPPIAN SPERGEN
 Date AUGUST 28, 2014
 Wellsite Rep. P. ASKY
 Test Engineer J. MURRAY & R. CRAIK
 Total Depth 5450.00
 Hole size / Dev. 7.9 in /vertical
 K.B. 4159.00 G.L. 4148.00
 Cushion NIL
 Drilling Rig MURFIN #20
 Mud Type/Density CHEMICAL 9.30lbs/gal

Extrapolated Pressure (kPa) N.C.
 Permeability (mD) N.C.
 Skin N.C.
 Average Liquid Flowrate (m3/d) 3.38
 Average Gas Flowrate (m3/d) tstm

Formation Pressure



DEPTH CORRECTION: 3.0 ft down hole
 GR LOG TIED TO: Nabors open hole Gamma Ray

	Pressure(psia)	P*(kPaa)	Liq. Rate(bbls/d)	Gas Rate(m3/d)	24 Clock	Duration
Initial Hydrostatic(1)	2585				15:04:26	
Start of Prewflow(2)	25		Avg: 48.6	Avg: 2903.38	15:28:36	
End of Prewflow(3)	27		Final: 21.0	Final: xxx.x	15:33:21	5
End of Initial Shut-in(4)	1069	1069			16:03:36	30
Start of 2nd Flow(4)	25		Avg: 3.33	Avg: 514.03	16:03:46	
End of 2nd Flow(5)	41		Final: xx	Final: xxx.x	17:03:46	60
End of 2nd Shut-in(6)	1039	1059			19:04:01	120
Final Hydrostatic(7)	2410				19:09:51	

Bottom Hole Temperature 151.5 degF at end of test
 Electronics# 3
 All gauges @ 5263.7 ftKB - Formation Pressure S/N 181454

Reverse Circulated: No
 Calculated Recovery: 61.7 feet of formation fluids and interval mud.
 Observed Recovery: By W/L sample. Reset for DST#2

FEKETE FORMATION EVALUATION INPUTS: Net Pay=4.0m , Porosity=xx% , Sw=xx%

The preflow was recorded under closed chamber conditions through the bubble hose for 5 minutes. Gas flow rates were TSTM.

Radial flow conditions were established during the initial shut-in.

The second flow period was run under closed chamber conditions throughout. Gas rates were TSTM. The calculated liquid rate was 3.38 bbls/day.

Radial flow conditions were established during the final shut in and the extrapolated pressures are valid.

PIPE TALLEY

HORIZONTAL WELL TESTING

COMPANY: MULL DRILLING COMPANY INC.
WELL NAME: SCHERLER #1-10
LOCATION: 849' FNL & 952' FEL SEC10 TWP17S RGE45W

DEPTH: 5257.5 - 5278.0 RKB
TEST #: ONE
DATE: 28 AUGUST 2014

DRILL COLLARS

TOTAL LENGTH(ft):

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1	60.34	60.34	6		120.07	11		120.07
2	59.73	120.07	7		120.07	12		120.07
3	0.00	120.07	8		120.07	13		120.07
4	0.00	120.07	9		120.07	14		120.07
5		120.07	10		120.07	15		120.07

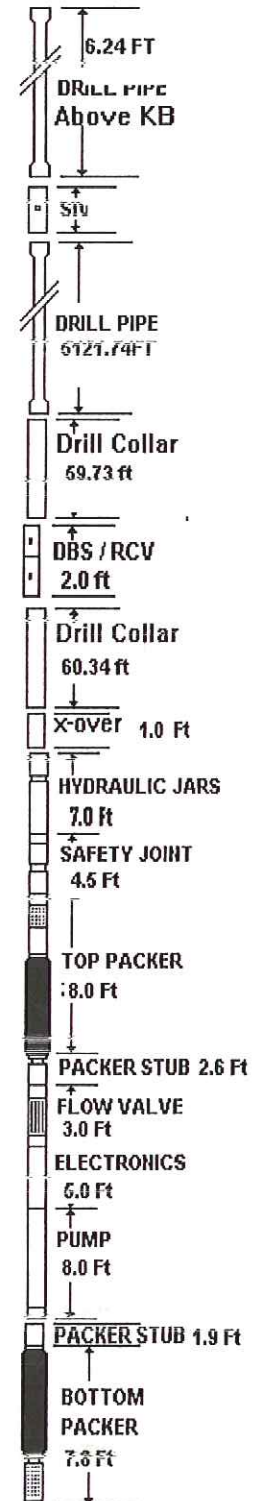
DRILL PIPE

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1		0.00	11		0.00
2	0.00	0.00	12		0.00
3	0.00	0.00	13		0.00
4	0.00	0.00	14		0.00
5	0.00	0.00	15		0.00
6	0.00	0.00	16		0.00
7		0.00	17		0.00
8		0.00	18		0.00
9		0.00	19		0.00
10		0.00	20		0.00

DRILL PIPE

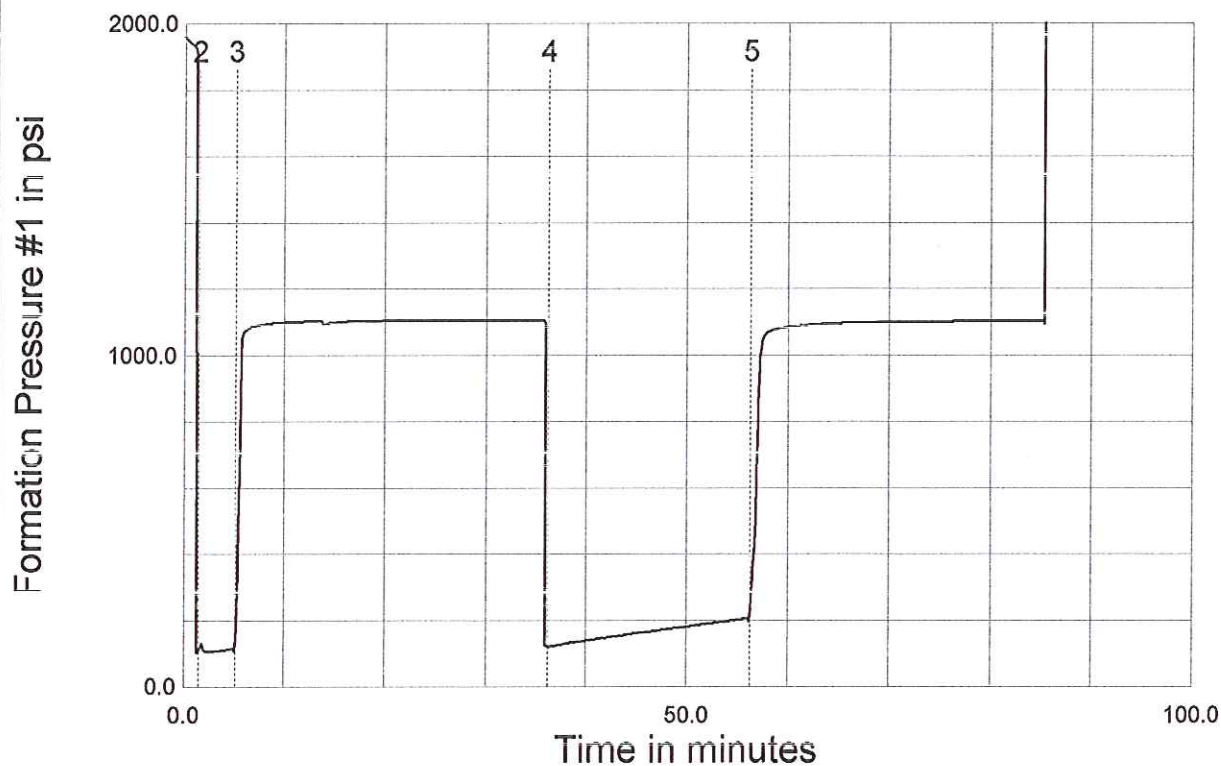
TOTAL LENGTH(ft):

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1	63.63	63.63	41	62.95	2590.35	81	31.68	4995.44
2	64.43	128.06	42	63.53	2653.88	82	31.67	5027.11
3	62.76	190.82	43	63.10	2716.98	83	31.65	5058.76
4	62.92	253.74	44	63.41	2780.39	84	31.32	5090.08
5	62.90	316.64	45	63.65	2844.04	85	31.66	5121.74
6	63.40	380.04	46	63.67	2907.71	86		5121.74
7	62.87	442.91	47	63.00	2970.71	87		5121.74
8	62.52	505.43	48	63.05	3033.76	88		5121.74
9	63.61	569.04	49	62.87	3096.63	89		5121.74
10	63.81	632.85	50	63.05	3159.68	90		5121.74
11	63.97	696.82	51	62.90	3222.58	91		5121.74
12	63.05	759.87	52	63.62	3286.20	92		5121.74
13	63.09	822.96	53	63.74	3349.94	93		5121.74
14	63.06	886.02	54	63.75	3413.69	94		5121.74
15	63.56	949.58	55	63.23	3476.92	95		5121.74
16	62.34	1011.92	56	63.90	3540.82	96		5121.74
17	62.74	1074.66	57	63.06	3603.88	97		5121.74
18	63.62	1138.28	58	63.00	3666.88	98		5121.74
19	63.00	1201.28	59	62.97	3729.85	99		5121.74
20	63.66	1264.94	60	63.93	3793.78	100		5121.74
21	62.94	1327.88	61	63.30	3857.08	101		5121.74
22	63.50	1391.38	62	63.00	3920.08	102		5121.74
23	63.60	1454.98	63	63.08	3983.16	103		5121.74
24	62.26	1517.24	64	63.47	4046.63	104		5121.74
25	62.45	1579.69	65	63.20	4109.83	105		5121.74
26	63.08	1642.77	66	63.40	4173.23	106		5121.74
27	62.17	1704.94	67	63.06	4236.29	107		5121.74
28	63.66	1768.60	68	63.36	4299.65	108		5121.74
29	63.61	1832.21	69	63.86	4363.51	109		5121.74
30	62.78	1894.99	70	63.50	4427.01	110		5121.74
31	62.94	1957.93	71	62.80	4489.81	111		5121.74
32	62.98	2020.91	72	63.23	4553.04	112		5121.74
33	63.60	2084.51	73	63.02	4616.06	113		5121.74
34	63.62	2148.13	74	63.32	4679.38	114		5121.74
35	63.85	2211.98	75	63.25	4742.63	115		5121.74
36	63.66	2275.64	76	63.40	4806.03	116		5121.74
37	62.81	2338.45	77	63.26	4869.29	117		5121.74
38	62.00	2400.45	78	31.38	4900.67	118		5121.74
39	63.50	2463.95	79	31.70	4932.37	119		5121.74
40	63.65	2527.60	80	31.39	4963.76	120		5121.74
						121		5121.74

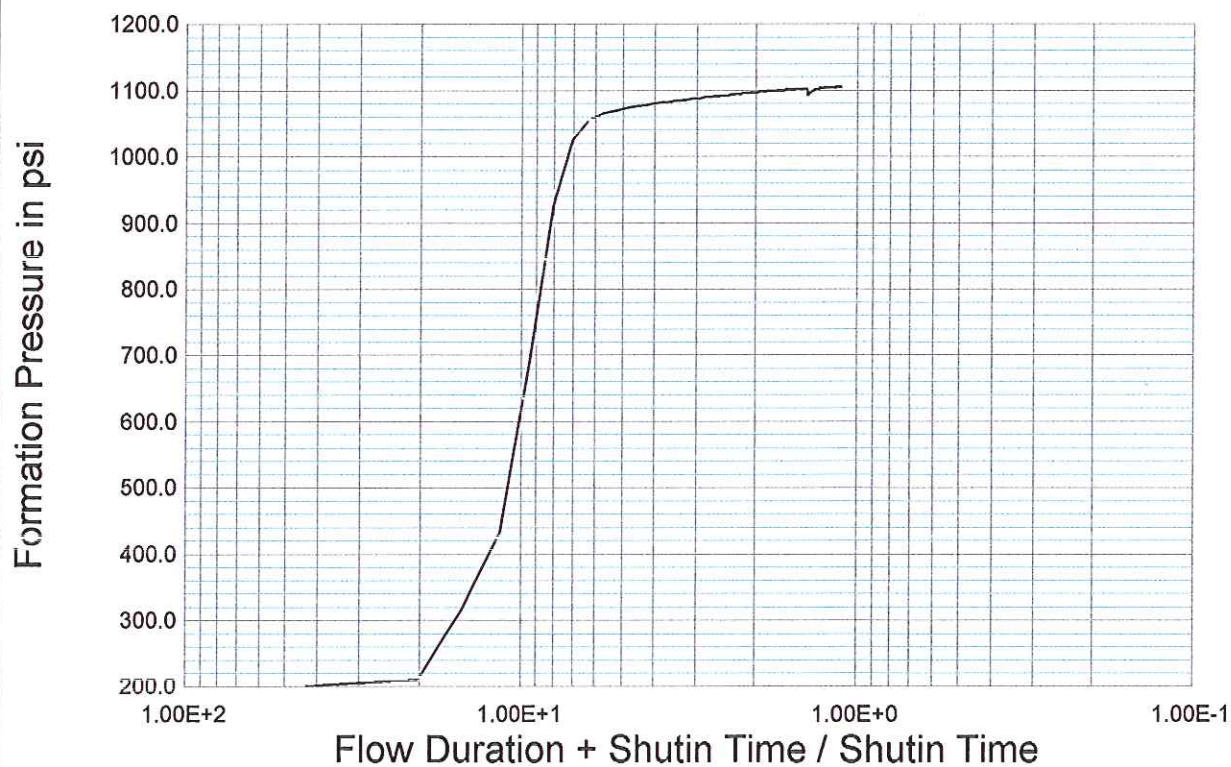


SCHERLER #1-10 849' FNL & 952' FEL SEC10 TWP17S RGE45W
DST #THREE, MARMATON, 4434.5 - 4455.0 FtKB

Formation Pressure #1

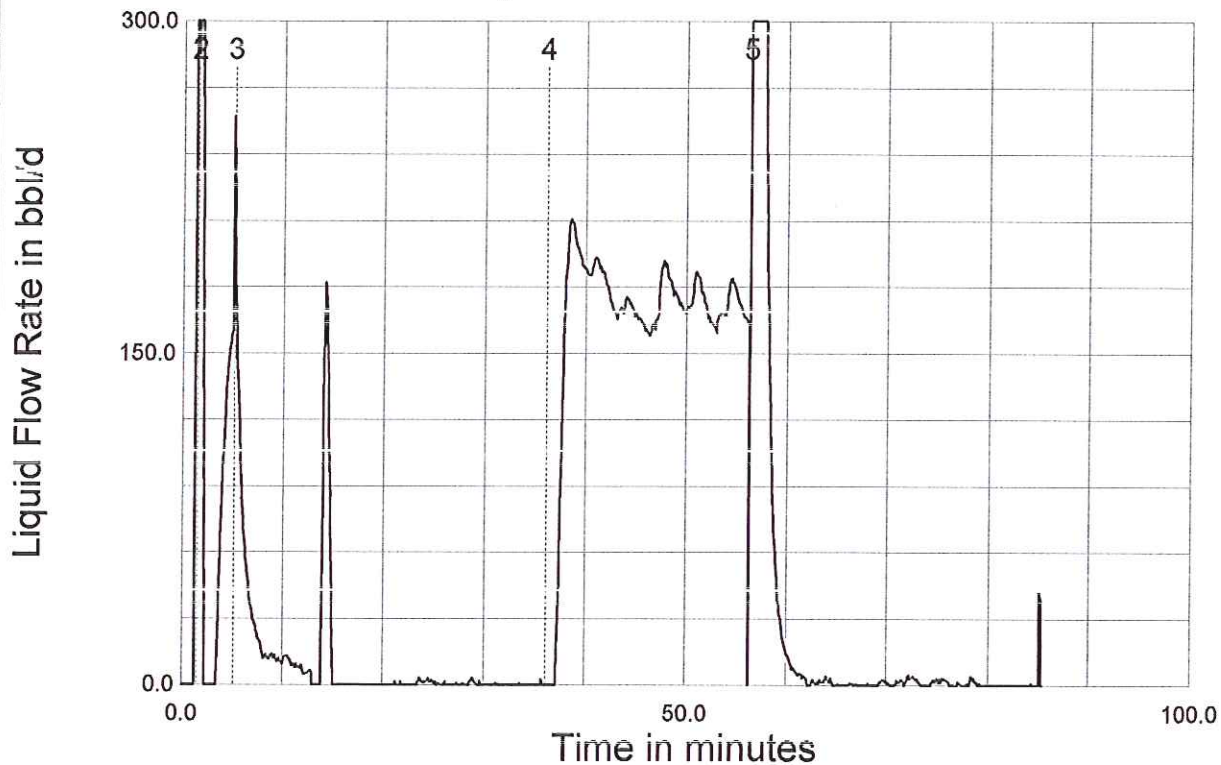


Horner Plot - Initial Shutin

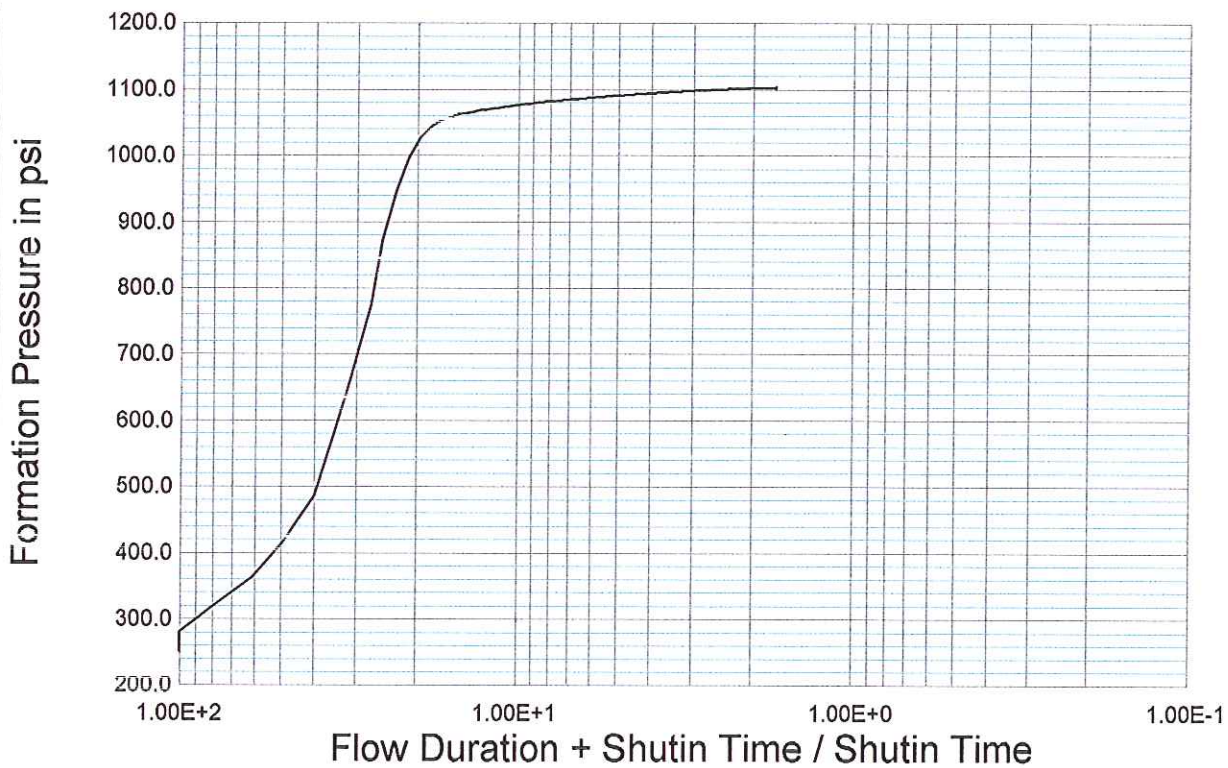


SCHERLER #1-10 849' FNL & 952' FEL SEC10 TWP17S RGE45W
DST #THREE, MARMATON, 4434.5 - 4455.0 FtKB

Liquid Flow Rate

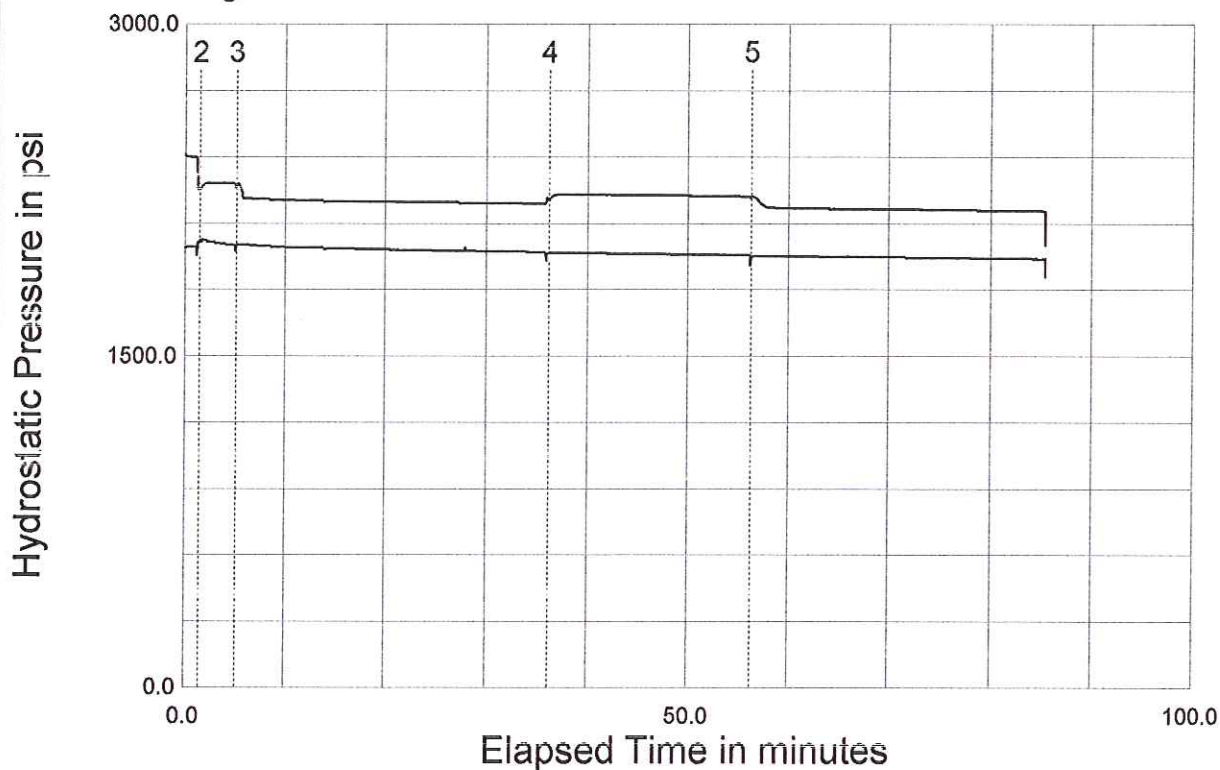


Horner Plot - Shutin #2



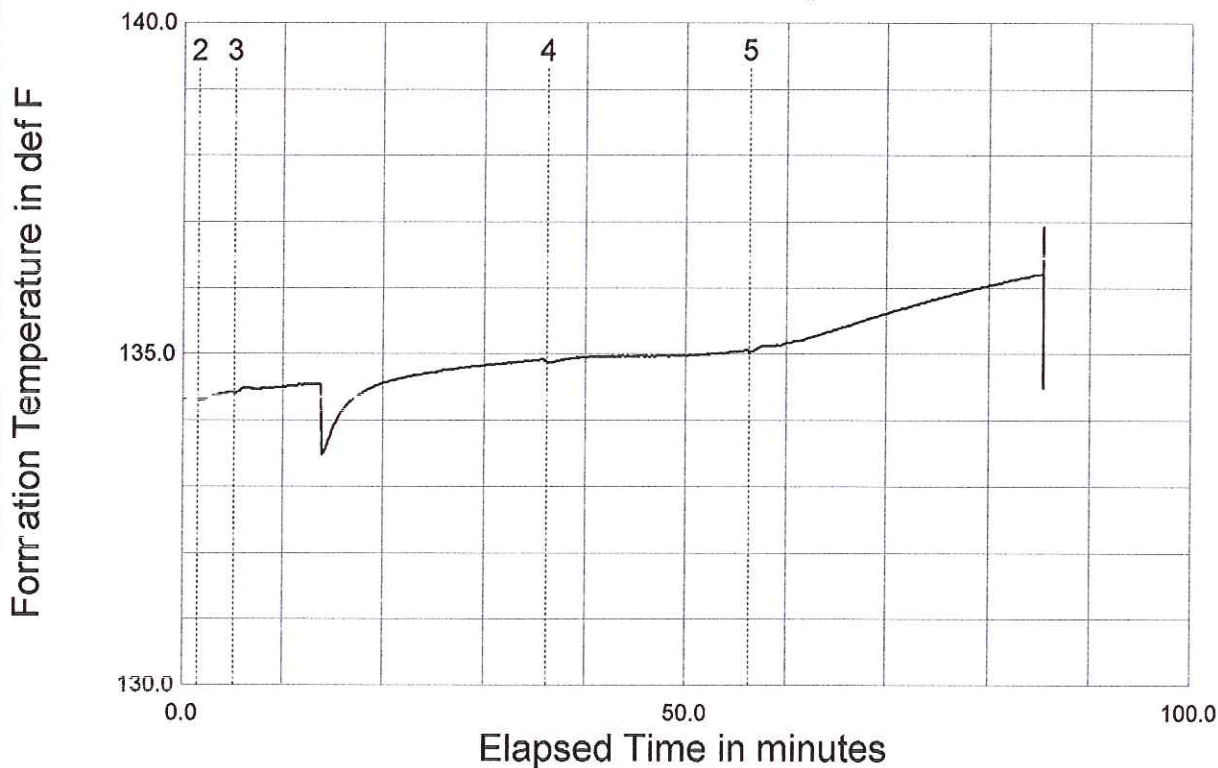
SCHERLER #1-10 849' FNL & 952' FEL SEC10 TWP17S RGE45W
DST #THREE, MARMATON, 4434.5 - 4455.0 FtKB

Hydrostatic & Inflation Pressure



Hydrostatic Pressure Inflation Pressure

Formation Temperature



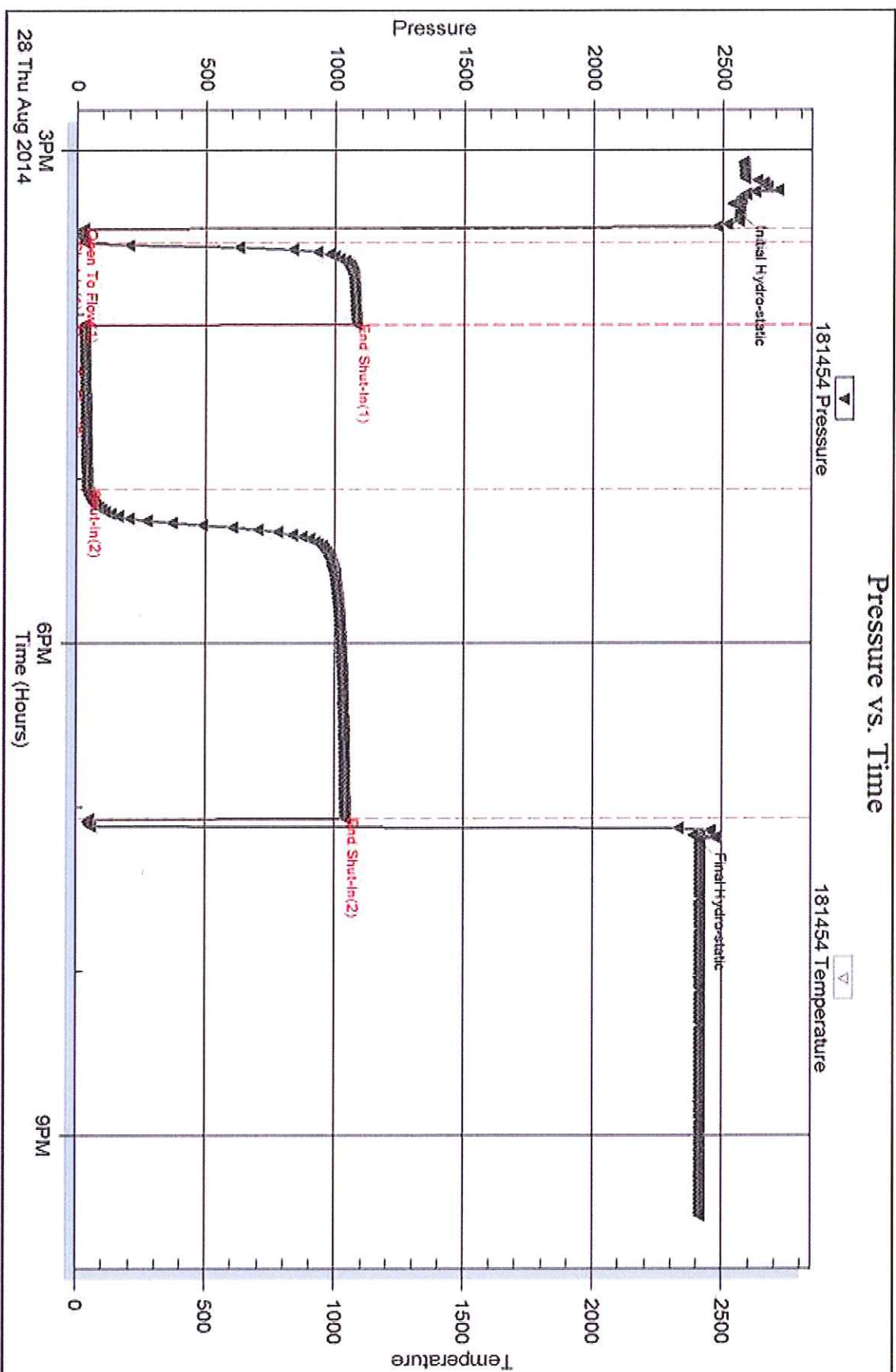
Serial #: 181454

Inside

Mud Drilling Inc

Scherler #1-10

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Inc**

1700 N Waterfront Pkwy
B #1200
Wichita, KS 67206

ATTN: Phil Askey

Scherler #1-10

10-17s-45w Kiowa, CO

Start Date: 2014.08.28 @ 00:06:17

End Date: 2014.08.28 @ 02:55:30

Job Ticket #: DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.05 @ 10:09:14

Mull Drilling Inc 10-17s-45w Kiowa, CO Scherler #1-10 DST # 2 Ft Scott 2014.08.28

DRILL STEM TEST #THREE

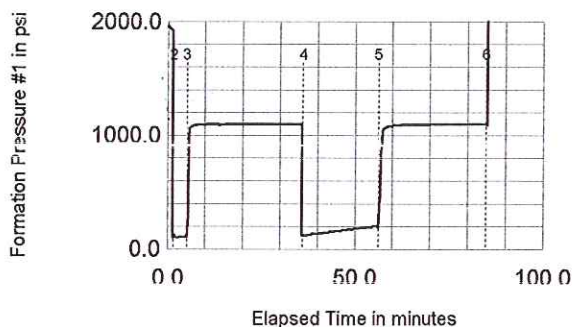
SCHERLER #1-10

849' FNL & 952' FEL SEC10 TWP17S RGE45W

Well Operator MULL DRILLING COMPANY INC.
 Well Name SCHERLER #1-10
 Location 849' FNL & 952' FEL SEC10 TWP17S RGE45W
 API. 05-061-06893-00
 License#
 Test Interval 4434.5 - 4455.0 FtKB
 Formation MARMATON
 Date AUGUST 29, 2014
 Wellsite Rep. P. ASKY
 Test Engineer J. MURRAY & R. CRAIK
 Total Depth 5450.00
 Hole size / Dev. 7.9 in /vertical
 K.B. 4159.00 G.L. 4148.00
 Cushion 184 Feet of fluids from DST #1&2
 Drilling Rig MURFIN #20
 Mud Type/Density CHEMICAL 9.30lbs/gal

Extrapolated Pressure (kPa) N.C.
 Permeability (mD) N.C.
 Skin N.C.
 Average Liquid Flowrate (bbbls/d) 190.00
 Average Gas Flowrate (m3/d) TSTM

Formation Pressure



DEPTH CORRECTION: N/R
 GR LOG TIED TO: 0.00

	Pressure(psia)	P*(psia)	Liq. Rate(bbbls/d)	Gas Rate(scfd)	24 Clock	Duration
Initial Hydrostatic(1)	1966				06:04:29	
Start of Prewflow(2)	110		Avg: 133.0	Avg: 0.00	06:12:04	
End of Prewflow(3)	116		Final: 150.0	Final: xxx.x	06:15:29	3
End of Initial Shut-in(4)	1106	N.C.			06:46:24	31
Start of 2nd Flow(4)	122		Avg: 190.00	Avg: 0.00	06:46:44	
End of 2nd Flow(5)	206		Final: 170.0	Final: xxx.x	07:06:44	20
End of 2nd Shut-in(6)	1103	N.C.			07:35:23	29
Final Hydrostatic(7)	1941				07:35:38	

Bottom Hole Temperature 136.2 degF at end of test
 Electronics# 3
 All gauges @ 4440.7 mKB - Formation Pressure S/N 181454

Reverse Circulated: No

Calculated Recovery: 212 Feet of formation fluids and interval mud with fluids from DST 1 & 2.

Observed Recovery: 85 feet of slightly oil cut muddy water and 310 feet of slightly oil cut gassified water.

FEKETE FORMATION EVALUATION INPUTS: Net Pay=4.0m , Porosity=xx% , Sw=xx%

The preflow was recorded under open chamber conditions for 4 minutes through a bubble hose. Gas flow rates TSTM. The average liquid rate was approx 133 bbbls/day.

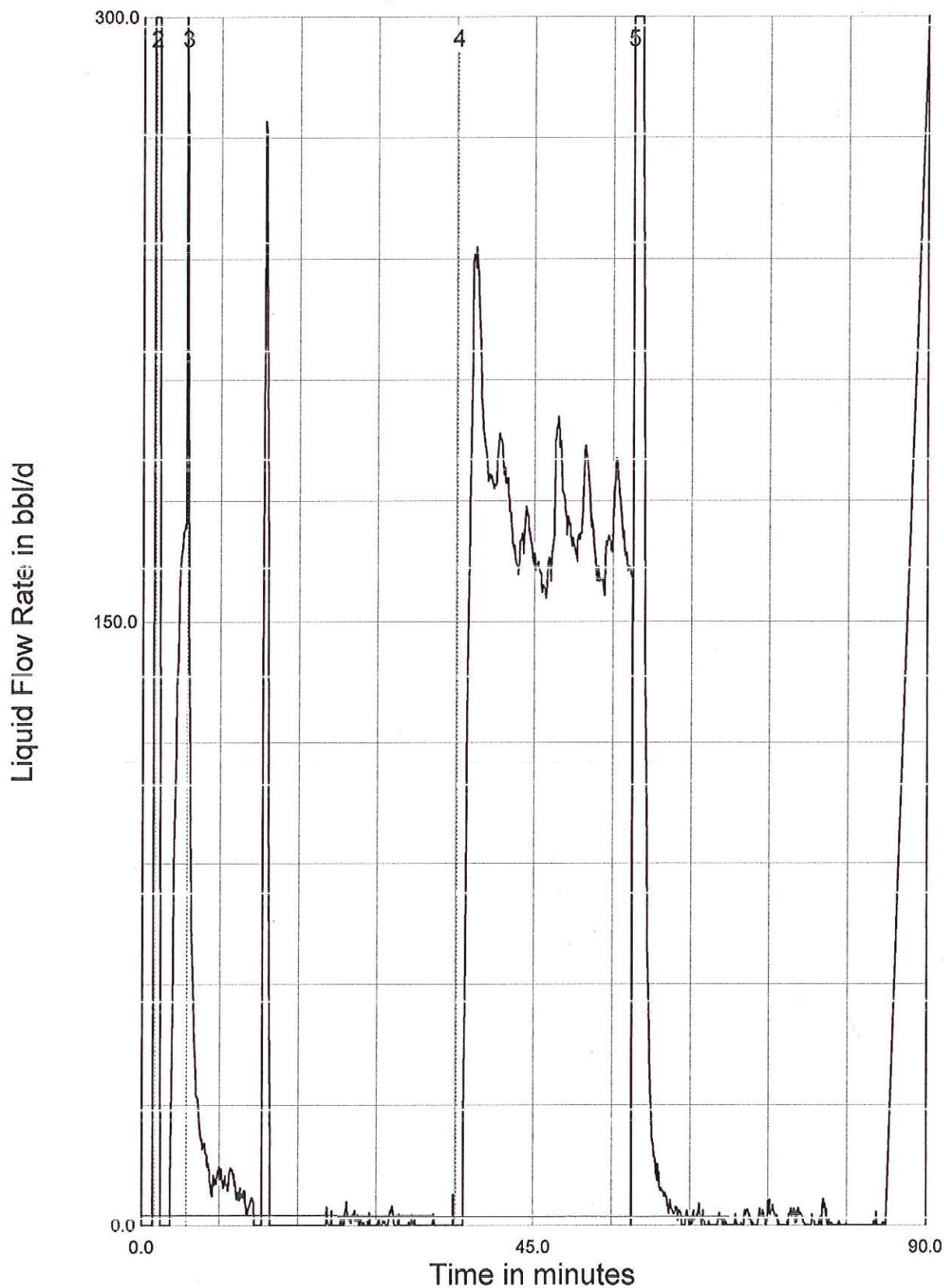
Radial flow calculations are to be determined at a later time.

The second flow period was run under open flow conditions throughout. Gas rates were TSTM. The calculated liquid rate was 190 m3/day.

Radial flow calculations will be determined at a later time.

SCHERLER #1-10 849' FNL & 952' FEL SEC10 TWP17S RGE45W
DST #THREE, MARMATON, 4434.5 - 4455.0 FtKB

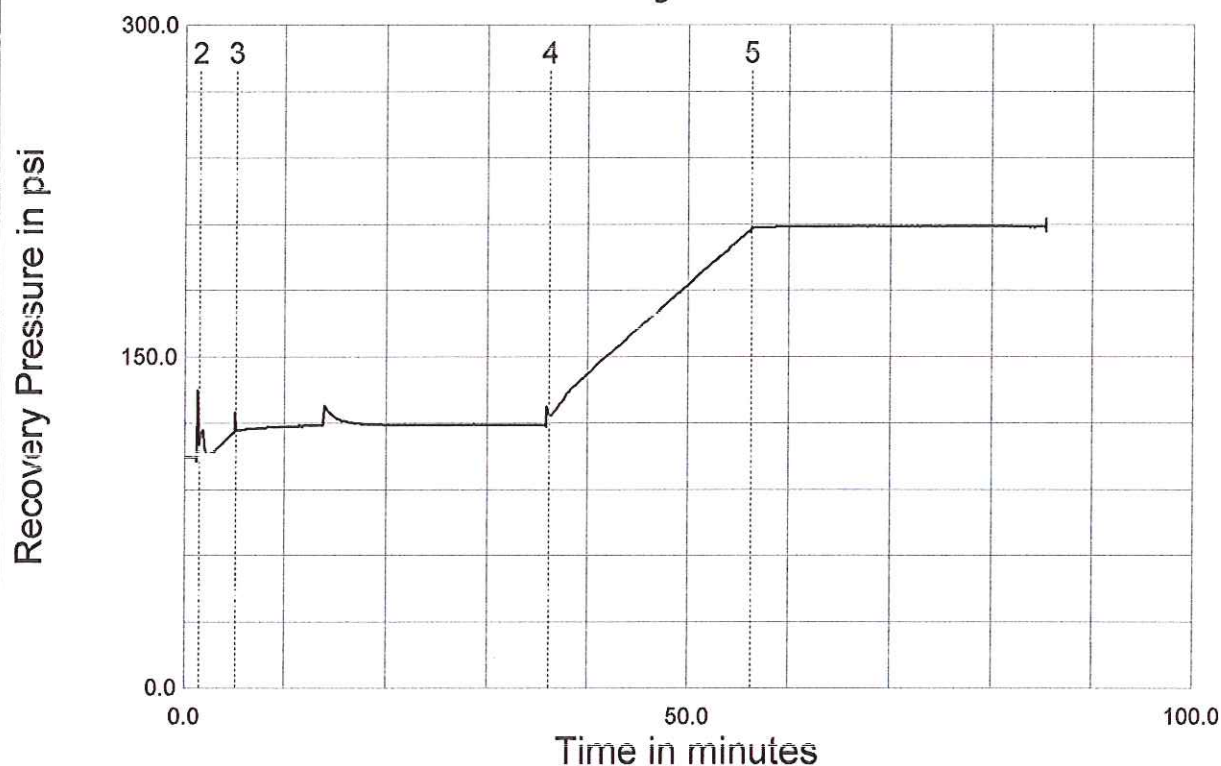
Liquid Flow Rate



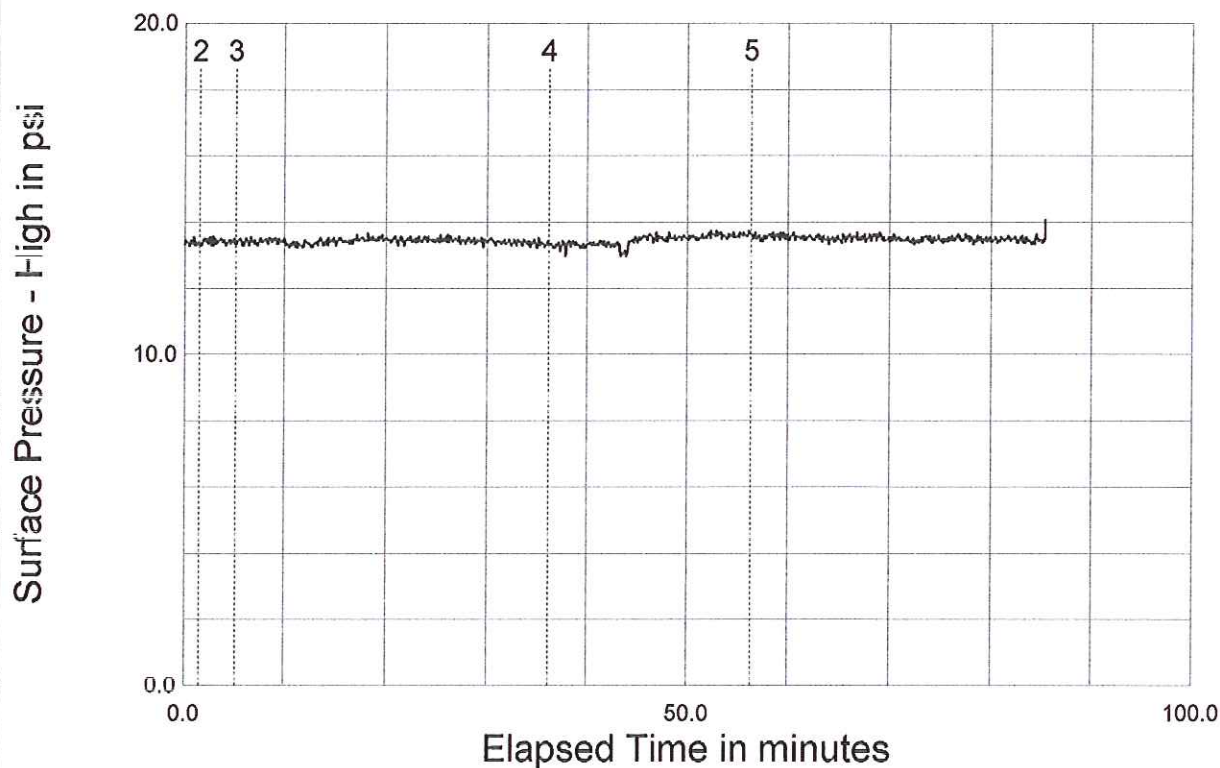
1307

SCHERLER #1-10 849' FNL & 952' FEL SEC10 TWP17S RGE45W
DST #THREE, MARMATON, 4434.5 - 4455.0 FtKB

Recovery Pressure



Surface Pressure

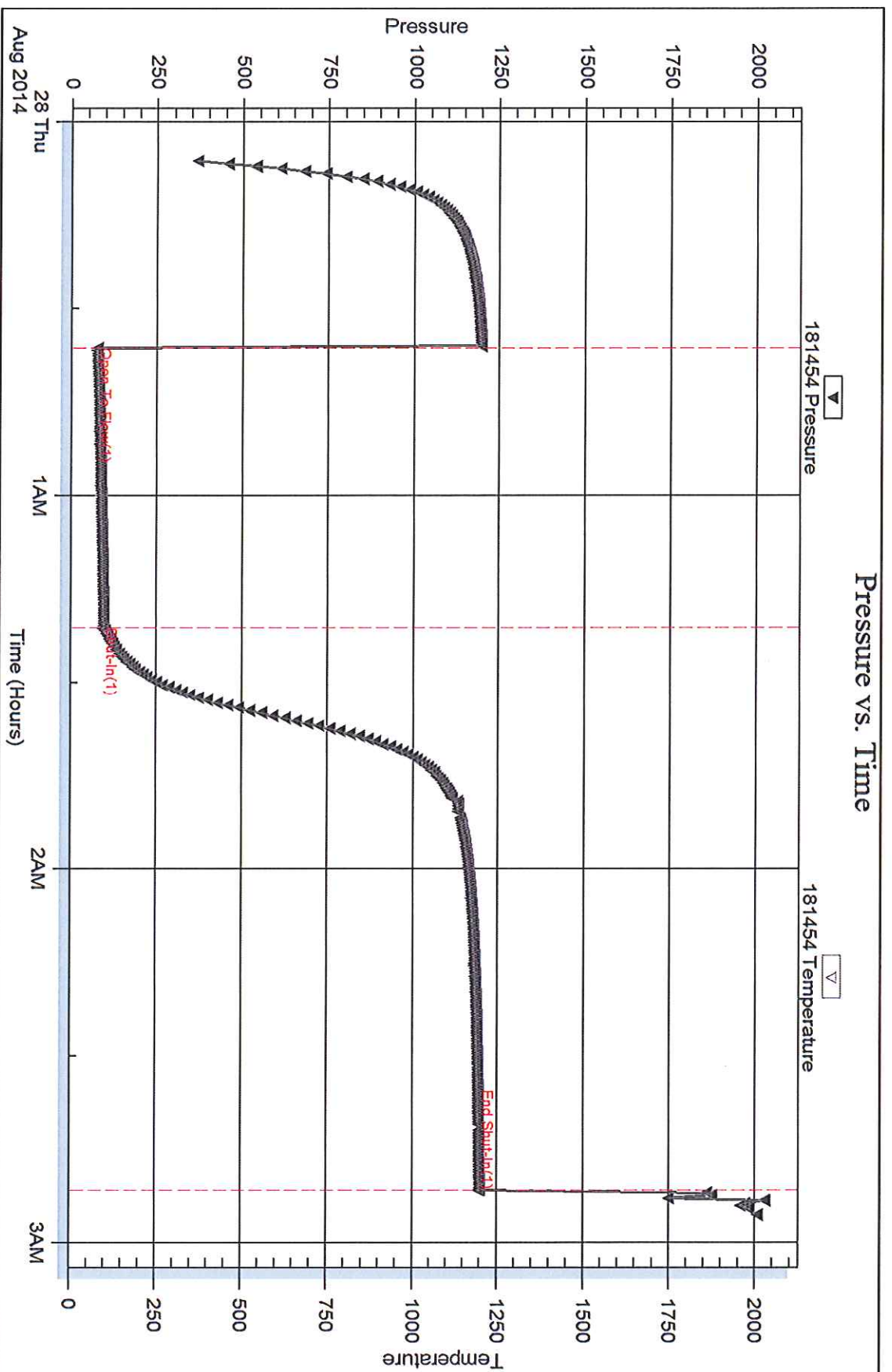


Serial #: 181454

Mull Drilling Inc

Scheler #1-10

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Inc**

1700 N Waterfront Pkwy
B #1200
Wichita, KS 67206

ATTN: Phil Askey

Scherler #1-10

10-17s-45w Kiowa, CO

Start Date: 2014.08.29 @ 06:04:29

End Date: 2014.08.29 @ 08:38:18

Job Ticket #: DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.05 @ 10:09:04

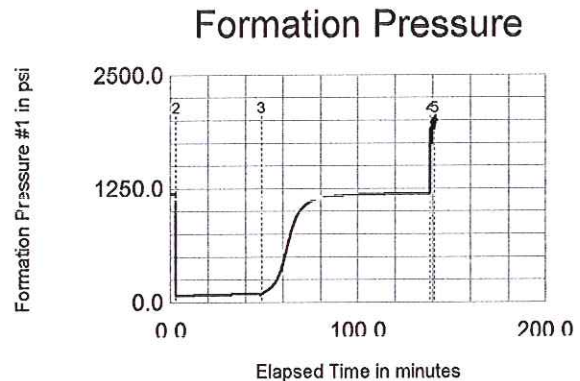
Mull Drilling Inc 10-17s-45w Kiowa, CO Scherler #1-10 DST # 3 Marmaton 2014.08.29

DRILL STEM TEST # TWO

SCHERLER #1-10 849' FNL & 952' FEL SEC10 TWP17S RGE45W

Well Operator MULL DRILLING COMPANY INC.
 Well Name SCHERLER #1-10
 Location 849' FNL & 952' FEL SEC10 TWP17S RGE45W
 API# 05-061-06693-00
 License#
 Test Interval 4513.5 - 4534.0 FtKB
 Formation Ft SCOTT
 Date AUGUST 28, 2014
 Wellsite Rep. P. ASKY
 Test Engineer J. MURRAY & R. CRAIK
 Total Depth 5450.00
 Hole size / Dev. 7.9 IN /vertical
 K.B. 4159.00 G.L. 4148.00
 Cushion 82 Ft of fluids from DSI #1
 Drilling Rig MURFIN #20
 Mud Type/Density CHEMICAL 9.30lbs/gal

Extrapolated Pressure (kPa) N.C.
 Permeability (mD) N.C.
 Skin N.C.
 Average Liquid Flowrate (m3/d) 19.80
 Average Gas Flowrate (m3/d) TSTM



DEPTH CORRECTION: 2.5 feet down hole
 GR LOG TIED TO: Nabors. open hole Gamma Ray

	<u>Pressure(kPaa)</u>	<u>P*(kPaa)</u>	<u>Liq. Rate(m3/d)</u>	<u>Gas Rate(m3/d)</u>	<u>24 Clock</u>	<u>Duration</u>
Initial Hydrostatic(1)	2036				00:06:17	
Start of Prewflow(2)	0		Avg: 0.0	Avg: 0.00		
End of Prewflow(3)	0		Final: xx.x	Final: xxx.x		0
End of Initial Shut-in(4)	78	N.C.			00:36:12	36
Start of 2nd Flow(4)	78		Avg: 19.79	Avg: 0.00	00:36:17	
End of 2nd Flow(5)	99		Final: 15.0	Final: xxx.x	01:21:27	45
End of 2nd Shut-in(6)	1199	N.C.			02:51:26	90
Final Hydrostatic(7)	1997				02:53:01	

Bottom Hole Temperature 136.8 degF at end of test
 Electronics# 3
 All gauges @ 4519.7 FtKB - Formation Pressure S/N 181454

Reverse Circulated: No
 Calculated Recovery: 103 Feet of formation fluids and interval mud.
 Observed Recovery: W/L sample. Reset for DST#3

FEKETE FORMATION EVALUATION INPUTS: Net Pay=4.0m , Porosity=xx% , Sw=xx%

The preflow was recorded under open chamber conditions for 5 minutes. Gas flow rates were TSTM. Data from the preflow and ISI are not available.

The second flow period was run under closed chamber conditions throughout. Final gas rate were TSTM. The final liquid rate was 15 bbls/day.

Radial flow conditions and P* are not yet determined.

PIPE TALLEY

HORIZONTAL DST of KANSAS

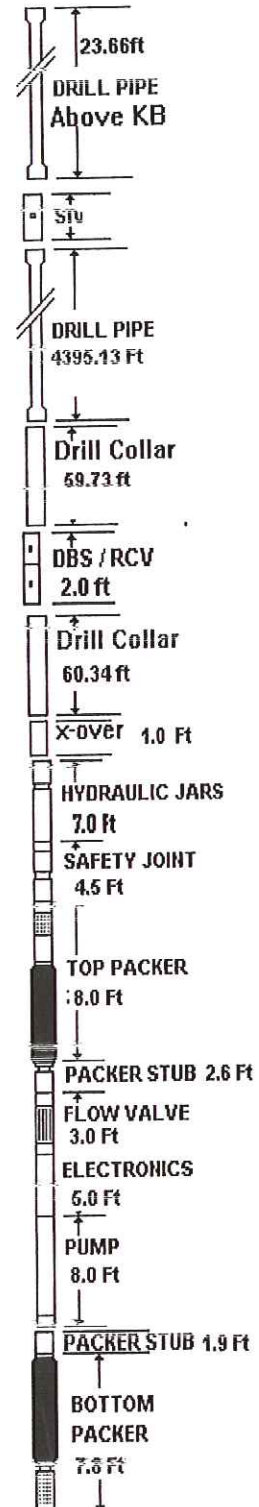
COMPANY: MULL DRILLING COMPANY INC.
WELL NAME: SCHERLER #1-10
LOCATION: 849' FNL & 952' FEL SEC10 TWP17S RGE45W

DEPTH: 4513.5 - 4534.0 ftKB
TEST #: TWO
DATE: 28 AUGUST 2014

DRILL COLLARS			TOTAL LENGTH(ft):		
JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1	60.34	60.34	6		120.07
2	59.73	120.07	7		120.07
3	0.00	120.07	8		120.07
4	0.00	120.07	9		120.07
5		120.07	10		120.07

DRILL PIPE			TOTAL LENGTH(ft):		
JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1		0.00	11		0.00
2	0.00	0.00	12		0.00
3	0.00	0.00	13		0.00
4	0.00	0.00	14		0.00
5	0.00	0.00	15		0.00
6	0.00	0.00	16		0.00
7		0.00	17		0.00
8		0.00	18		0.00
9		0.00	19		0.00
10		0.00	20		0.00

DRILL PIPE			TOTAL LENGTH(ft):		
JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1	63.63	63.63	41	62.95	2590.35
2	64.42	128.05	42	63.52	2653.87
3	62.76	190.82	43	63.10	2716.98
4	62.92	253.74	44	63.41	2780.39
5	62.90	316.64	45	63.65	2844.04
6	63.40	380.04	46	63.67	2907.71
7	62.87	442.91	47	63.00	2970.71
8	62.52	505.43	48	63.05	3033.76
9	63.61	569.04	49	62.87	3096.63
10	63.81	632.85	50	63.05	3159.68
11	63.97	696.82	51	62.90	3222.58
12	63.05	759.87	52	63.62	3286.20
13	63.09	822.96	53	63.74	3349.94
14	63.06	886.02	54	63.75	3413.69
15	63.56	949.58	55	63.23	3476.92
16	62.34	1011.92	56	63.90	3540.82
17	62.74	1074.66	57	63.06	3603.88
18	63.62	1138.28	58	63.00	3666.88
19	63.00	1201.28	59	62.97	3729.85
20	63.66	1264.94	60	63.93	3793.78
21	62.94	1327.88	61	63.30	3857.08
22	63.50	1391.38	62	63.00	3920.08
23	63.60	1454.98	63	63.08	3983.16
24	62.26	1517.24	64	63.47	4046.63
25	62.45	1579.69	65	63.20	4109.83
26	63.08	1642.77	66	63.40	4173.23
27	62.17	1704.94	67	63.06	4236.29
28	63.66	1768.60	68	63.36	4299.65
29	63.61	1832.21	69	63.86	4363.51
30	62.78	1894.99	70	31.62	4395.13
31	62.94	1957.93	71		4395.13
32	62.98	2020.91	72		4395.13
33	63.60	2084.51	73		4395.13
34	63.62	2148.13	74		4395.13
35	63.65	2211.78	75		4395.13
36	63.66	2275.44	76		4395.13
37	62.81	2338.25	77		4395.13
38	62.00	2400.25	78		4395.13
39	63.50	2463.75	79		4395.13
40	63.65	2527.40	80		4395.13
			121		4395.13

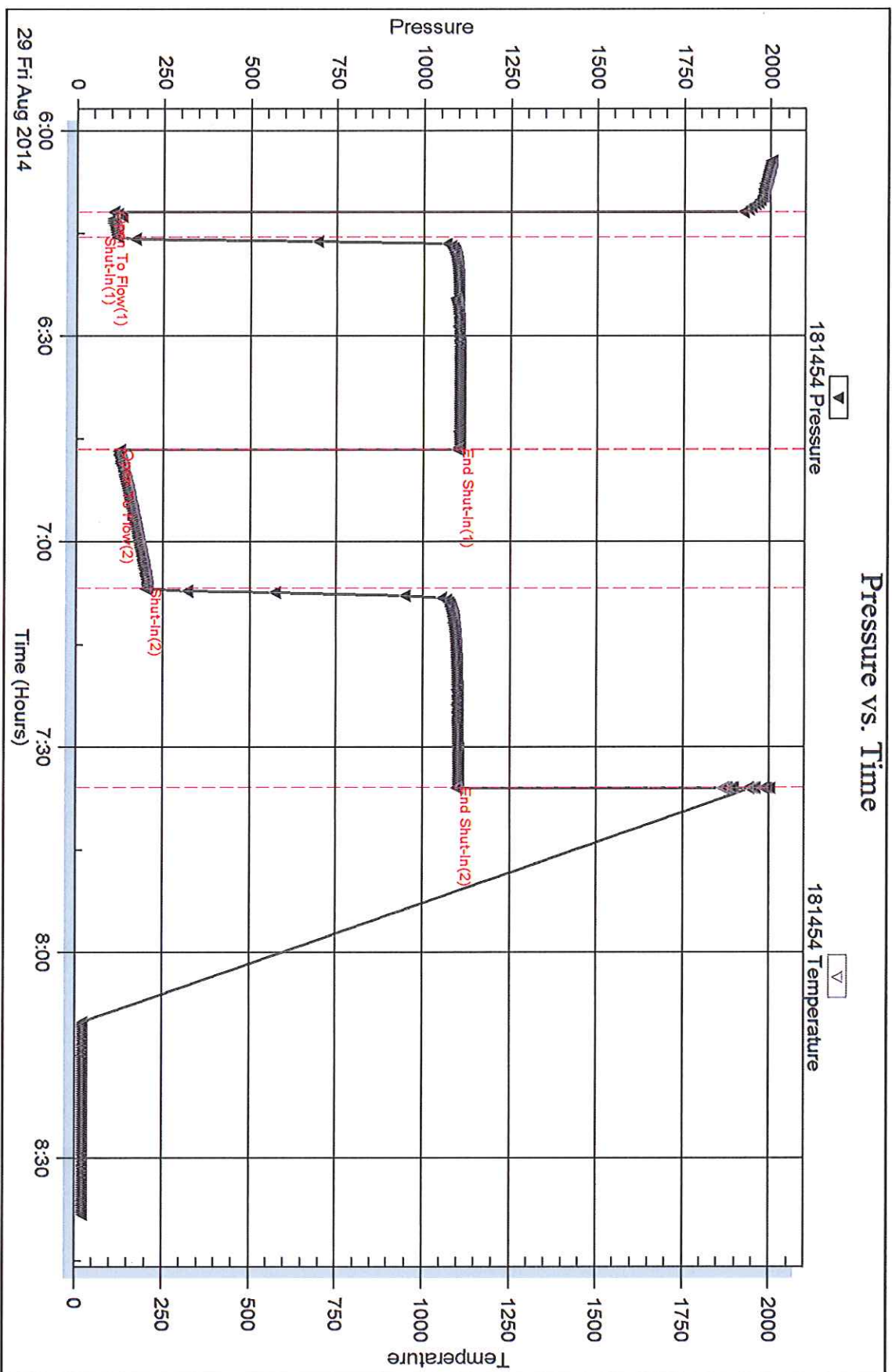


Serial #: 181454

Mull Drilling Inc

Scherler #1-10

DST Test Number: 3



Trilobite Testing, Inc

Ref. No:

Printed: 2014.09.05 @ 10:09:05



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Inc**
1700 N Waterfront Pkwy
B #1200
Wichita, KS 67206

ATTN: Phil Askey

Scherler #1-10

10-17s-45w Kiowa, CO

Start Date: 2014.08.29 @ 16:33:28

End Date: 2014.08.29 @ 19:08:43

Job Ticket #: DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.05 @ 10:08:30

Mull Drilling Inc 10-17s-45w Kiowa, CO Scherler #1-10 DST # 4 LKC J 2014.08.29

DRILL STEM TEST #FOUR

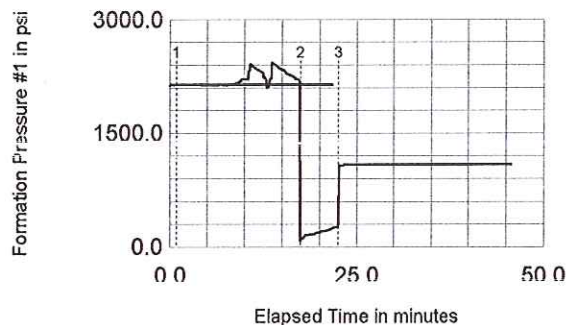
SCHERLER #1-10

849' FNL & 952' FEL SEC10 TWP17S RGE45W

Well Operator MULL DRILLING COMPANY INC.
 Well Name SCHERLER #1-10
 Location 849' FNL & 952' FEL SEC10 TWP17S RGE45W
 API 05-061-06693-00
 License#
 Test Interval 4264.5 - 4285.0 FTKB
 Formation LANSING J
 Date AUGUST 29, 2014
 Wellsite Rep. P. ASKY
 Test Engineer J. MURRAY & R. CRAIK
 Total Depth 5450.00
 Hole size / Dev. 7.9 in /vertical
 K.B. 4159.00 G.L. 4148.00
 Cushion NIL
 Drilling Rig MURFIN #20
 Mud Type/Density CHEMICAL 9.30lbs/gal

Extrapolated Pressure (kPa) N.C.
 Permeability (mD) N.C.
 Skin N.C.
 Average Liquid Flowrate (bbls/d) 1298.00
 Average Gas Flowrate (m3/d) TSTM

Formation Pressure



DEPTH CORRECTION: 2.5 Ft down hole
 GR LOG TIED TO: Nabors open hole Gamma Ray

	Pressure(psia)	P*(psia)	Liq. Rate(bbls/d)	Gas Rate(m3/d)	24 Clock	Duration
Initial Hydrostatic(1)	2148				16:33:28	
Start of Preflow(2)	83		Avg: 1298.0	Avg: 0.00	16:52:08	
End of Preflow(3)	265		Final: 1500.0	Final: xxx.x	16:57:13	5
End of Initial Shut-in(4)	1085	N.C.			17:20:28	23
Start of 2nd Flow(4)	239		Avg: 1201.00	Avg: 0.00	17:25:39	
End of 2nd Flow(5)	412		Final: 1075.0	Final: xxx.x	17:32:39	7
End of 2nd Shut-in(6)	1085	N.C.			17:53:24	21
Final Hydrostatic(7)	2007					

Bottom Hole Temperature 136.0 degF at end of test
 Electronics# 3
 All gauges @ 4270.0 FTKB - Formation Pressure S/N 181454

Reverse Circulated: No
 Calculated Recovery: 725 Feet of formation fluids and interval mud.
 Observed Recovery: Not observed. Reset for DST#5

FEKETE FORMATION EVALUATION INPUTS: Net Pay=x.xm , Porosity=xx% , Sw=xx%

The preflow was recorded under open flow conditions for 5 minutes with liquid flow rates of approx 1300 bbls/day.

Radial flow conditions were established during the initial shut-in.

The second flow period was run under open flow conditions throughout with a calculated liquid rate of approx 1200 bbls/day.

Radial flow conditions were established during the final shut-in.

PIPE TALLEY

HORIZONTAL WELL TESTING

COMPANY: MULL DRILLING COMPANY INC.
WELL NAME: SCHERLER #1-10
LOCATION: 849' FNL & 952' FEL SEC10 TWP17S RGE45W

DEPTH: 4264.5 - 4285.0 ftKB
TEST #: FOUR
DATE: 29 AUGUST 2014

DRILL COLLARS

TOTAL LENGTH(ft):

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1		0.00	6		0.00	11		0.00
2		0.00	7		0.00	12		0.00
3	0.00	0.00	8		0.00	13		0.00
4	0.00	0.00	9		0.00	14		0.00
5		0.00	10		0.00	15		0.00

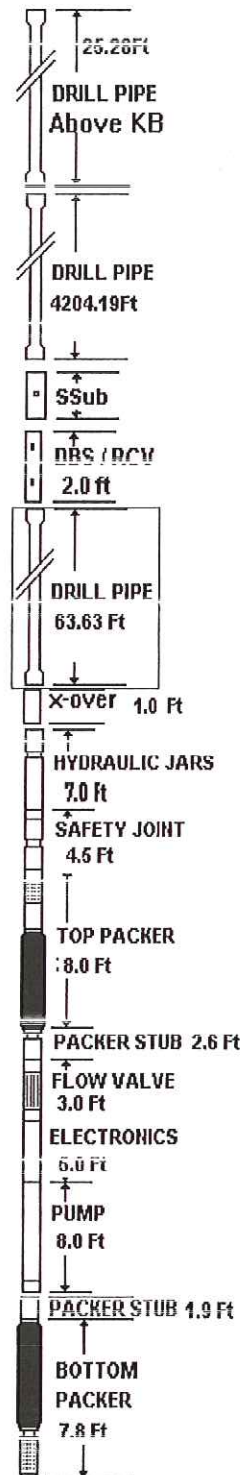
DRILL PIPE

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1	63.63	63.63	11		63.63
2	0.00	63.63	12		63.63
3	0.00	63.63	13		63.63
4	0.00	63.63	14		63.63
5	0.00	63.63	15		63.63
6	0.00	63.63	16		63.63
7		63.63	17		63.63
8		63.63	18		63.63
9		63.63	19		63.63
10		63.63	20		63.63

DRILL PIPE

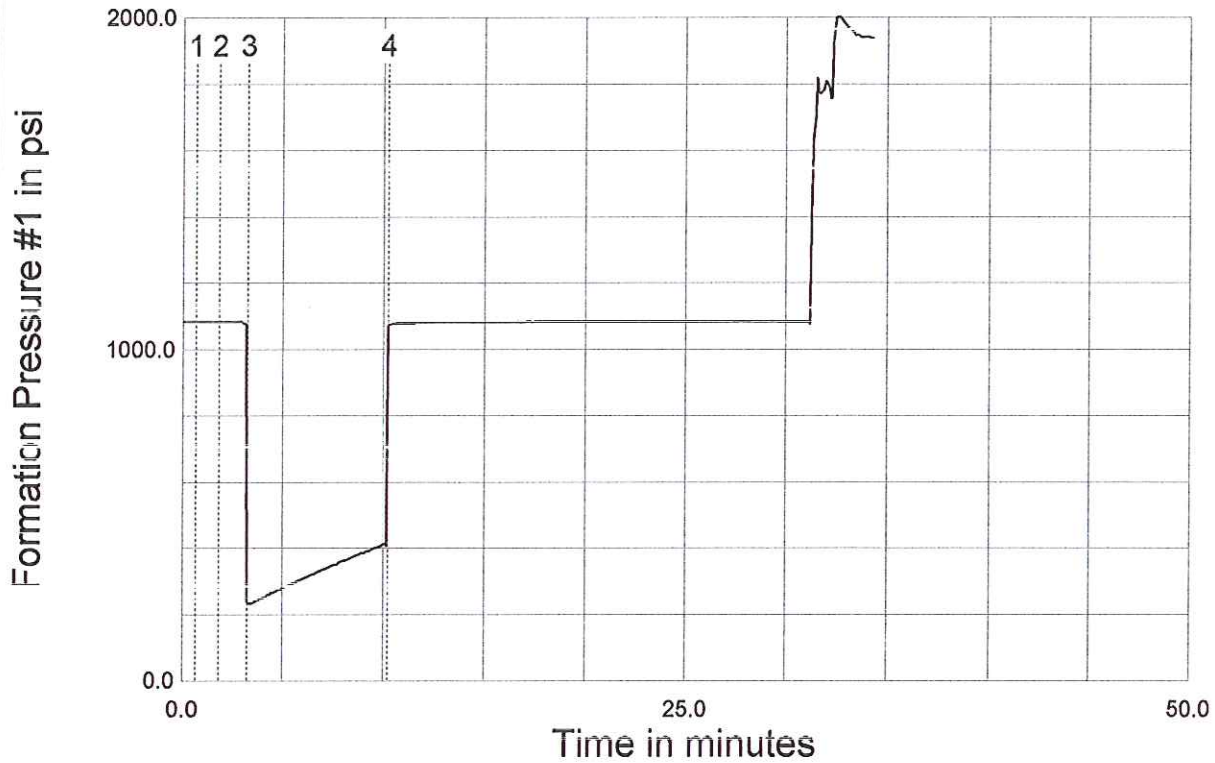
TOTAL LENGTH(ft):

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1		0.00	41	62.95	2526.72	81		4204.19
2	64.43	64.43	42	63.53	2590.25	82		4204.19
3	62.76	127.19	43	63.10	2653.35	83		4204.19
4	62.92	190.11	44	63.41	2716.76	84		4204.19
5	62.90	253.01	45	63.65	2780.41	85		4204.19
6	63.40	316.41	46	63.67	2844.08	86		4204.19
7	62.87	379.28	47	63.00	2907.08	87		4204.19
8	62.52	441.80	48	63.05	2970.13	88		4204.19
9	63.61	505.41	49	62.87	3033.00	89		4204.19
10	63.81	569.22	50	63.05	3096.05	90		4204.19
11	63.97	633.19	51	62.90	3158.95	91		4204.19
12	63.05	696.24	52	63.62	3222.57	92		4204.19
13	63.09	759.33	53	63.74	3286.31	93		4204.19
14	63.06	822.39	54	63.75	3350.06	94		4204.19
15	63.56	885.95	55	63.23	3413.29	95		4204.19
16	62.34	948.29	56	63.90	3477.19	96		4204.19
17	62.74	1011.03	57	63.06	3540.25	97		4204.19
18	63.62	1074.65	58	63.00	3603.25	98		4204.19
19	63.00	1137.65	59	62.97	3666.22	99		4204.19
20	63.66	1201.31	60	63.93	3730.15	100		4204.19
21	62.94	1264.25	61	63.30	3793.45	101		4204.19
22	63.50	1327.75	62	63.00	3856.45	102		4204.19
23	63.60	1391.35	63	63.08	3919.53	103		4204.19
24	62.26	1453.61	64	63.47	3983.00	104		4204.19
25	62.45	1516.06	65	63.20	4046.20	105		4204.19
26	63.08	1579.14	66	63.40	4109.60	106		4204.19
27	62.17	1641.31	67	63.06	4172.66	107		4204.19
28	63.66	1704.97	68	31.53	4204.19	108		4204.19
29	63.61	1768.58	69		4204.19	109		4204.19
30	62.78	1831.36	70		4204.19	110		4204.19
31	62.94	1894.30	71		4204.19	111		4204.19
32	62.98	1957.28	72		4204.19	112		4204.19
33	63.60	2020.88	73		4204.19	113		4204.19
34	63.62	2084.50	74		4204.19	114		4204.19
35	63.65	2148.15	75		4204.19	115		4204.19
36	63.66	2211.81	76		4204.19	116		4204.19
37	62.81	2274.62	77		4204.19	117		4204.19
38	62.00	2336.62	78		4204.19	118		4204.19
39	63.50	2400.12	79		4204.19	119		4204.19
40	63.65	2463.77	80		4204.19	120		4204.19
						121		4204.19
						122		4204.19

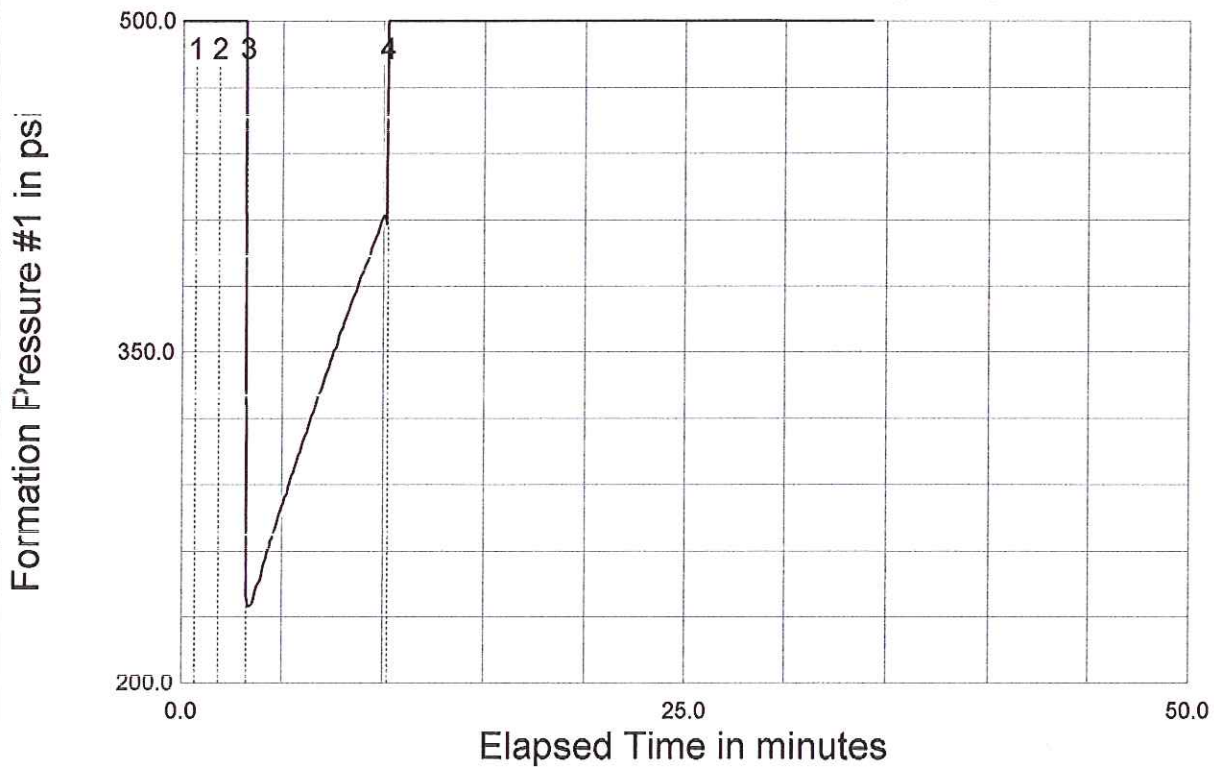


SCHERLER #1-10
DST #FOUR, LANSING J, 4264.5 - 4285.0 FtKB

Formation Pressure #1

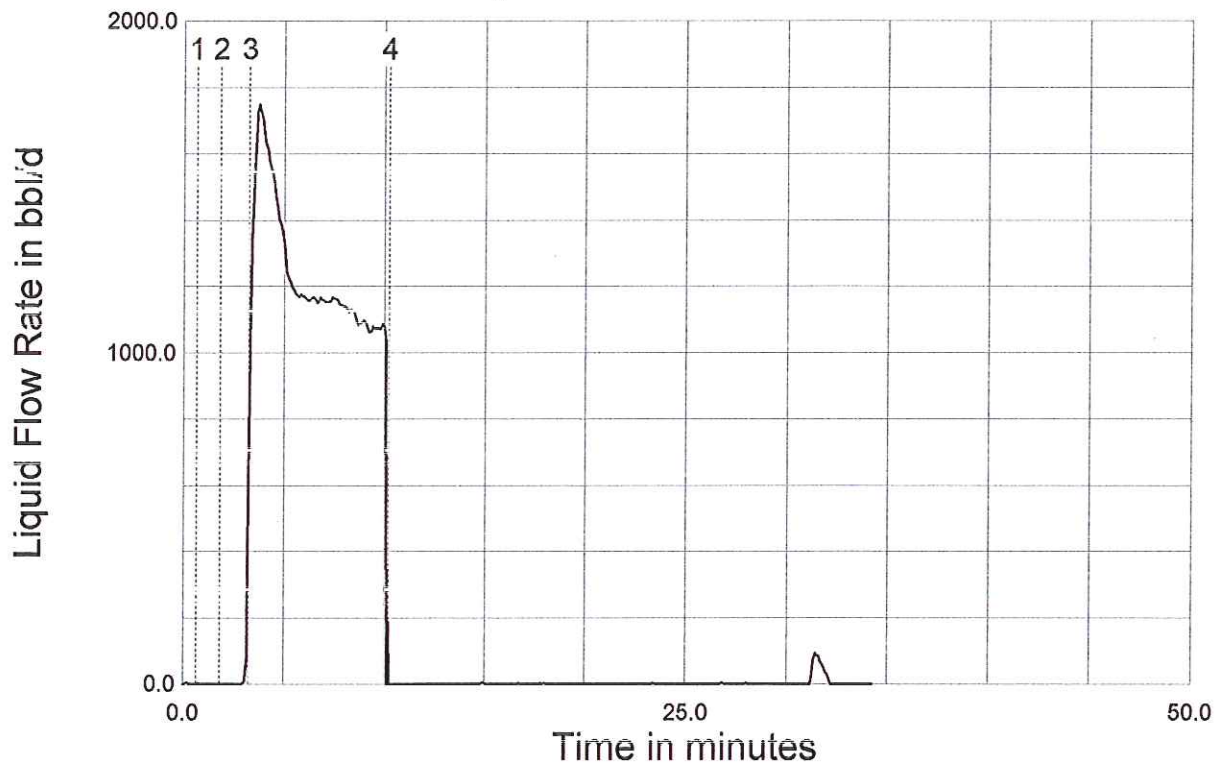


Formation Pressure #1(expanded)

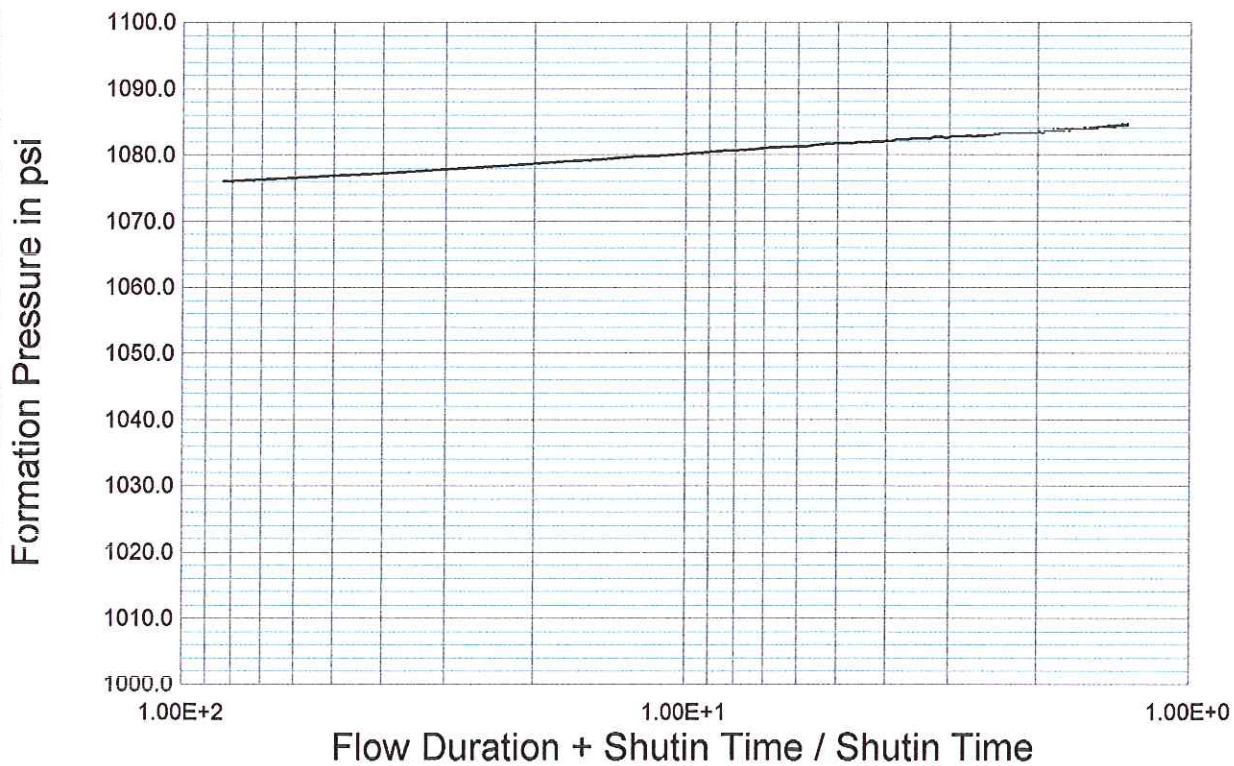


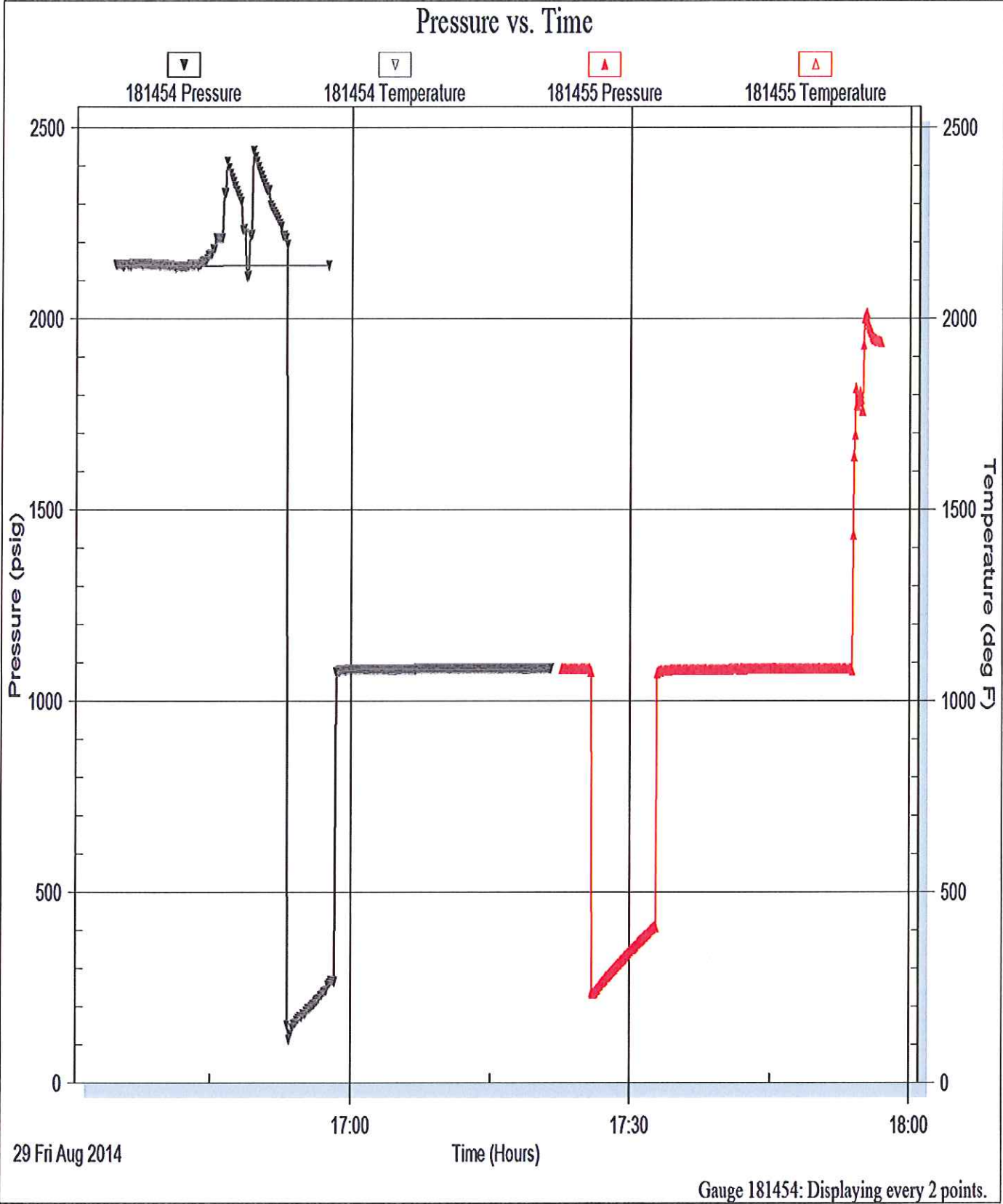
SCHERLER #1-10
DST #FOUR, LANSING J, 4264.5 - 4285.0 FtKB

Liquid Flow Rate



Horner Plot - Shutin #2







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Inc**

1700 N Waterfront Pkwy
B #1200
Wichita, KS 67206

ATTN: Phil Askey

Scherler #1-10

10-17s-45w Kiowa, CO

Start Date: 2014.08.29 @ 21:37:41

End Date: 2014.08.30 @ 00:12:11

Job Ticket #: DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.05 @ 09:47:35

Mull Drilling Inc 10-17s-45w Kiowa, CO Scherler #1-10 DST # 5 LKC K 2014.08.29

DRILL STEM TEST #FIVE

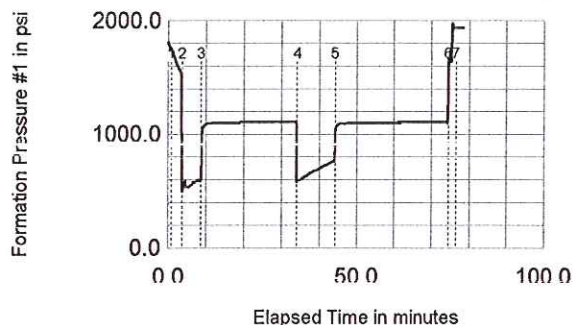
SCHERLER #1-10

849' FNL & 952' FEL SEC10 TWP17S RGE45W

Well Operator MULL DRILLING COMPANY INC.
 Well Name SCHERLER #1-10
 Location 849' FNL & 952' FEL SEC10 TWP17S RGE45W
 API 05-061-06693-00
 License#
 Test Interval 4310.5 - 4331.0 FTKB
 Formation LANSING K
 Date AUGUST 29, 2014
 Wellsite Rep. P. ASKY
 Test Engineer J. MURRAY & R. CRAIK
 Total Depth 5450.00
 Hole size / Dev. 7.9 in /vertical
 K.B. 4159.00 G.L. 4148.00
 Cushion /61 Ft of Fluids From DSI #4
 Drilling Rig MURFIN #20
 Mud Type/Density CHEMICAL 9.30lbs/gal

Extrapolated Pressure (kPa) N.C.
 Permeability (mD) N.C.
 Skin N.C.
 Average Liquid Flowrate (m3/d) N.C.
 Average Gas Flowrate (m3/d) N.C.

Formation Pressure



DEPTH CORRECTION: N/R
 GR LOG TIED TO: Nabors open hole Gamma Ray

	Pressure(kPaa)	P*(kPaa)	Liq. Rate(m3/d)	Gas Rate(m3/d)	24 Clock	Duration
Initial Hydrostatic(1)	1748				21:37:41	
Start of Preflow(2)	507		Avg: 1220.2	Avg: 0.00	21:42:36	
End of Preflow(3)	597		Final: 1000.0	Final: xxx.x	21:47:31	5
End of Initial Shut-in(4)	1108	N.C.			22:12:41	25
Start of 2nd Flow(4)	581		Avg: 938.00	Avg: 0.00	22:12:56	
End of 2nd Flow(5)	763		Final: 660.0	Final: xxx.x	22:23:01	10
End of 2nd Shut-in(6)	1107	N.C.			22:53:01	30
Final Hydrostatic(7)	1958				22:54:21	

Bottom Hole Temperature 134.9 degC at end of test
 Electronics# 3
 All gauges @ 4316.7 FTKB - Formation Pressure S/N 181454

Reverse Circulated: No
 Calculated Recovery: 745 Ft of formation fluids and interval mud.
 Observed Recovery: Not observed. Reset for DST#x

FEKETTE FORMATION EVALUATION INPUTS: Net Pay=4.0m , Porosity=xx% , Sw=xx%

The preflow was recorded under closed chamber conditions throughout. Gas flow rates were TSTM.

Radial flow conditions were established during the initial shut-in.

The second flow period was run under closed chamber conditions and again Gas rates were TSTM. The calculated liquid rate was 938 m3/day.

Radial flow conditions were established during the final shut-in and the extrapolated pressures will be determined at a later date.

PIPE TALLEY

HORIZONTAL WELL TESTING

COMPANY: MULL DRILLING COMPANY INC.
WELL NAME: SCHERLER #1-10
LOCATION: 849' FNL & 952' FEL SEC10 TWP17S RGE45W

DEPTH: 4310.5 - 4331.0 ftKB
TEST #: FIVE
DATE: 29 AUGUST 2014

DRILL COLLARS

TOTAL LENGTH(ft):

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1		0.00	6		0.00	11		0.00
2		0.00	7		0.00	12		0.00
3	0.00	0.00	8		0.00	13		0.00
4	0.00	0.00	9		0.00	14		0.00
5		0.00	10		0.00	15		0.00

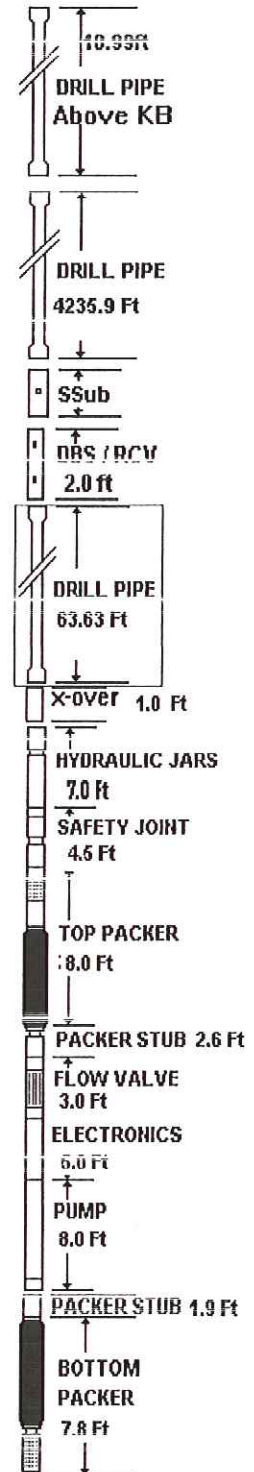
DRILL PIPE

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1	63.63	63.63	11		63.63
2	0.00	63.63	12		63.63
3	0.00	63.63	13		63.63
4	0.00	63.63	14		63.63
5	0.00	63.63	15		63.63
6	0.00	63.63	16		63.63
7		63.63	17		63.63
8		63.63	18		63.63
9		63.63	19		63.63
10		63.63	20		63.63

DRILL PIPE

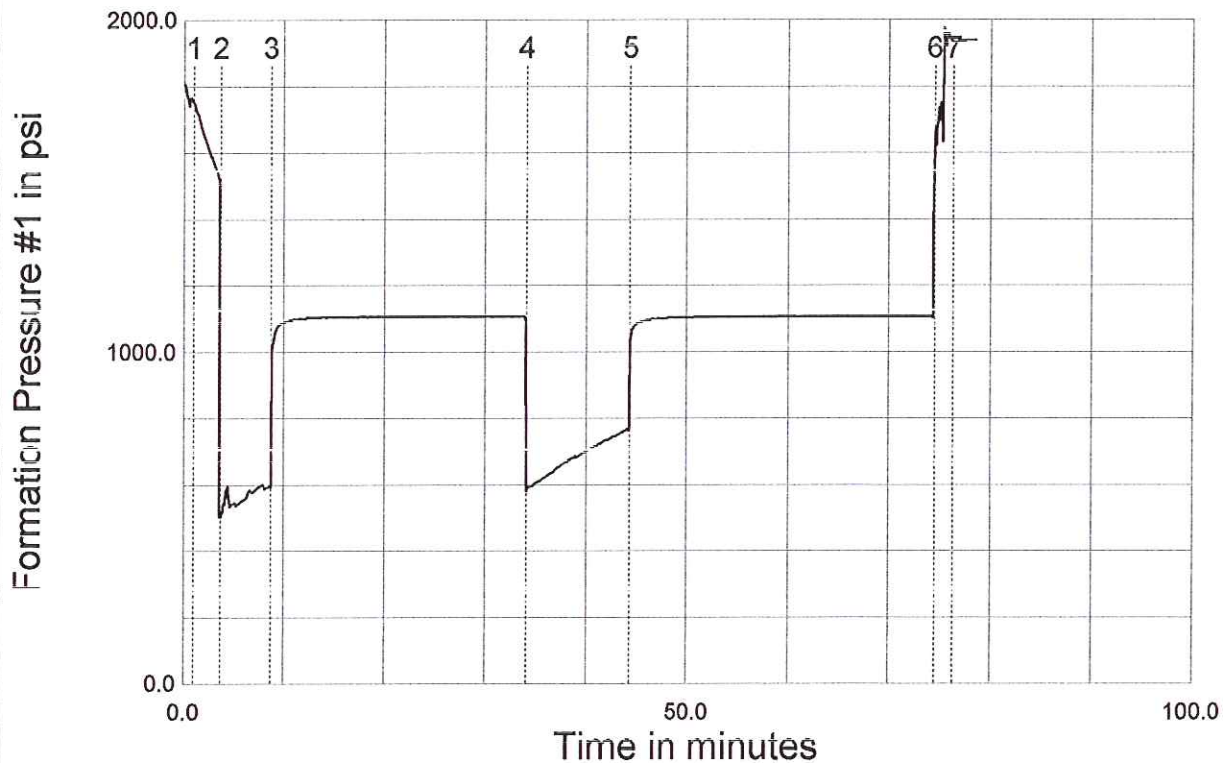
TOTAL LENGTH(ft):

JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL	JOINT	LENGTH	TOTAL
1		0.00	41	62.95	2526.72	81		4235.90
2	64.43	64.43	42	63.53	2590.25	82		4235.90
3	62.76	127.19	43	63.10	2653.35	83		4235.90
4	62.92	190.11	44	63.41	2716.76	84		4235.90
5	62.90	253.01	45	63.65	2780.41	85		4235.90
6	63.40	316.41	46	63.67	2844.08	86		4235.90
7	62.87	379.28	47	63.00	2907.08	87		4235.90
8	62.52	441.80	48	63.05	2970.13	88		4235.90
9	63.61	505.41	49	62.87	3033.00	89		4235.90
10	63.81	569.22	50	63.05	3096.05	90		4235.90
11	63.97	633.19	51	62.90	3158.95	91		4235.90
12	63.05	696.24	52	63.62	3222.57	92		4235.90
13	63.09	759.33	53	63.74	3286.31	93		4235.90
14	63.06	822.39	54	63.75	3350.06	94		4235.90
15	63.56	885.95	55	63.23	3413.29	95		4235.90
16	62.34	948.29	56	63.90	3477.19	96		4235.90
17	62.74	1011.03	57	63.06	3540.25	97		4235.90
18	63.62	1074.65	58	63.00	3603.25	98		4235.90
19	63.00	1137.65	59	62.97	3666.22	99		4235.90
20	63.66	1201.31	60	63.93	3730.15	100		4235.90
21	62.94	1264.25	61	63.30	3793.45	101		4235.90
22	63.50	1327.75	62	63.00	3856.45	102		4235.90
23	63.60	1391.35	63	63.08	3919.53	103		4235.90
24	62.26	1453.61	64	63.47	3983.00	104		4235.90
25	62.45	1516.06	65	63.20	4046.20	105		4235.90
26	63.08	1579.14	66	63.40	4109.60	106		4235.90
27	62.17	1641.31	67	63.06	4172.66	107		4235.90
28	63.66	1704.97	68	63.24	4235.90	108		4235.90
29	63.61	1768.58	69		4235.90	109		4235.90
30	62.78	1831.36	70		4235.90	110		4235.90
31	62.94	1894.30	71		4235.90	111		4235.90
32	62.98	1957.28	72		4235.90	112		4235.90
33	63.60	2020.88	73		4235.90	113		4235.90
34	63.62	2084.50	74		4235.90	114		4235.90
35	63.65	2148.15	75		4235.90	115		4235.90
36	63.66	2211.81	76		4235.90	116		4235.90
37	62.81	2274.62	77		4235.90	117		4235.90
38	62.00	2336.62	78		4235.90	118		4235.90
39	63.50	2400.12	79		4235.90	119		4235.90
40	63.65	2463.77	80		4235.90	120		4235.90
						121		4235.90
						122		4235.90

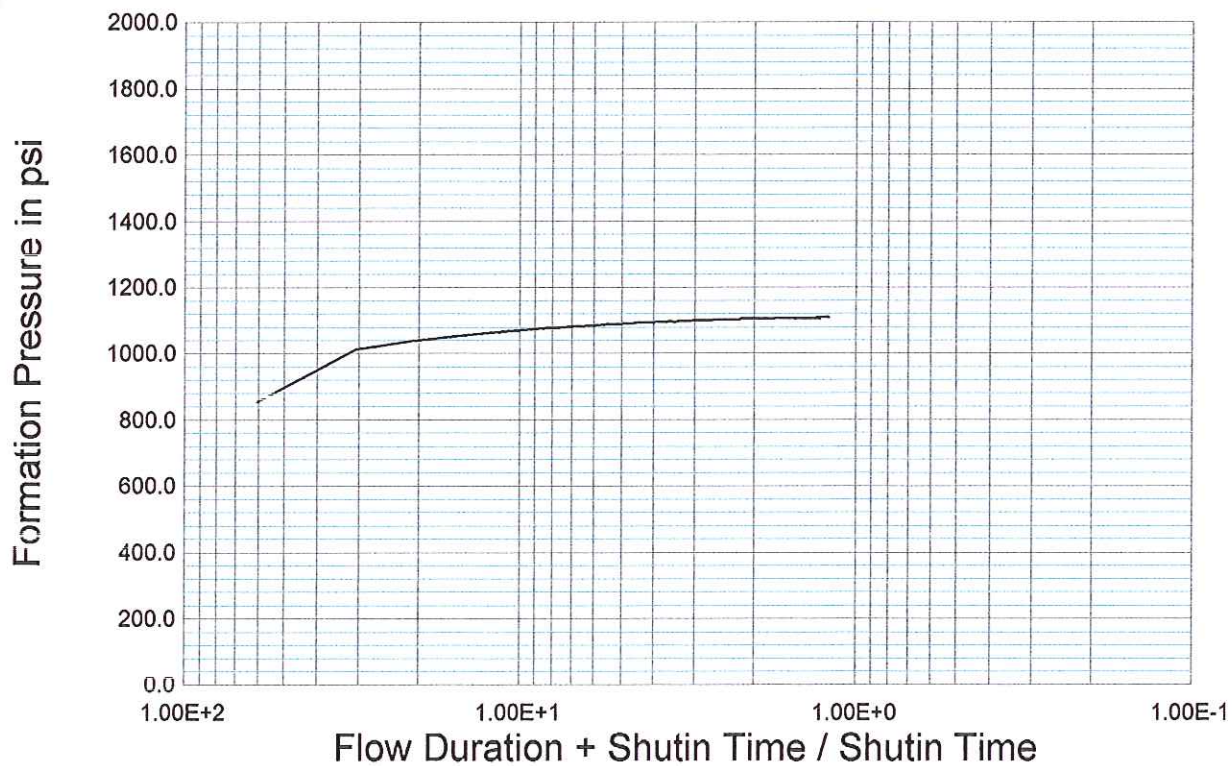


SCHERLER #1-10
DST #FIVE, LANSING K, 4310.5 - 4331.0 FtKB

Formation Pressure #1

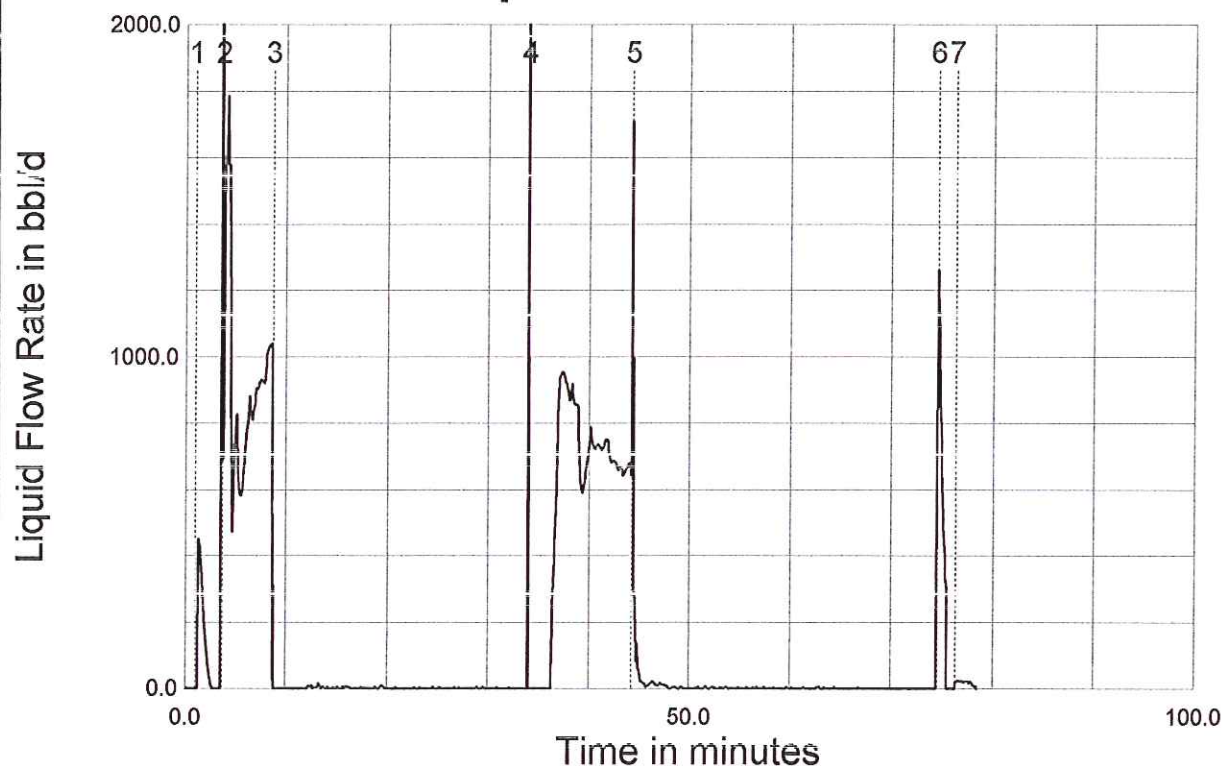


Horner Plot - Initial Shutin

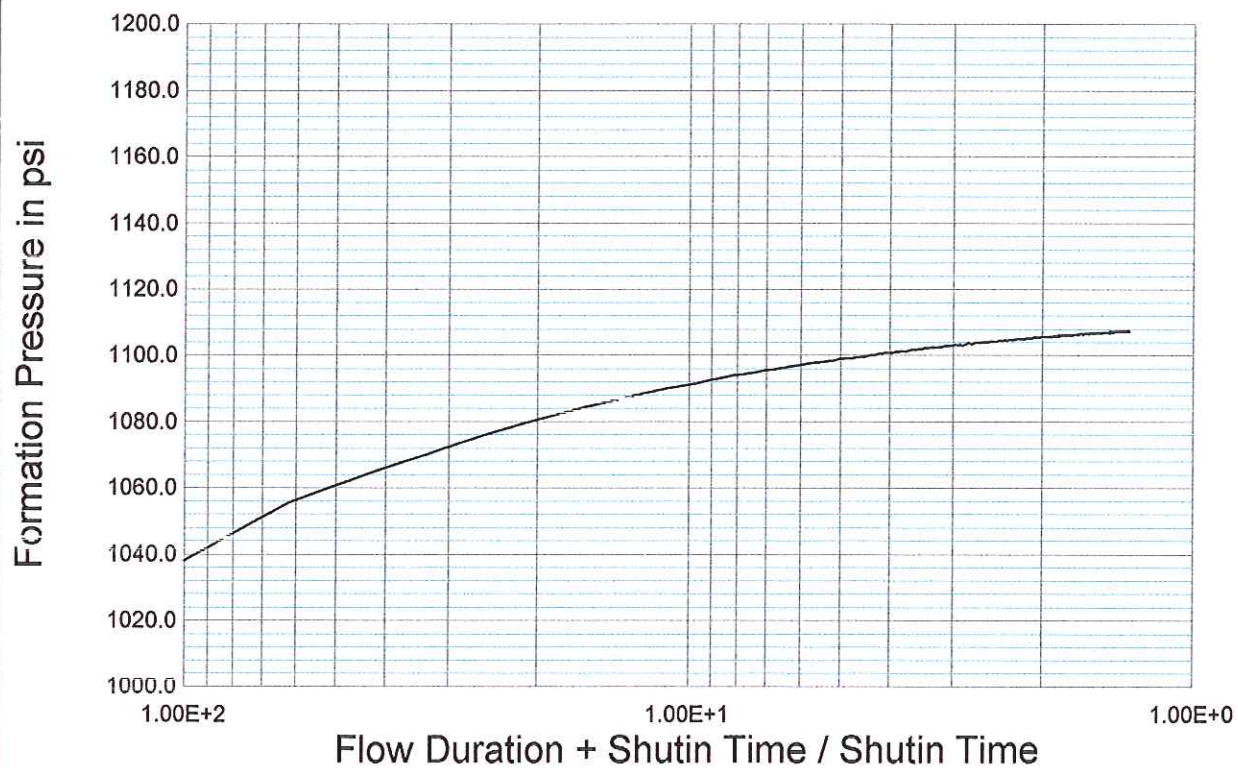


SCHERLER #1-10
DST #FIVE, LANSING K, 4310.5 - 4331.0 FtKB

Liquid Flow Rate



Horner Plot - Shutin #2

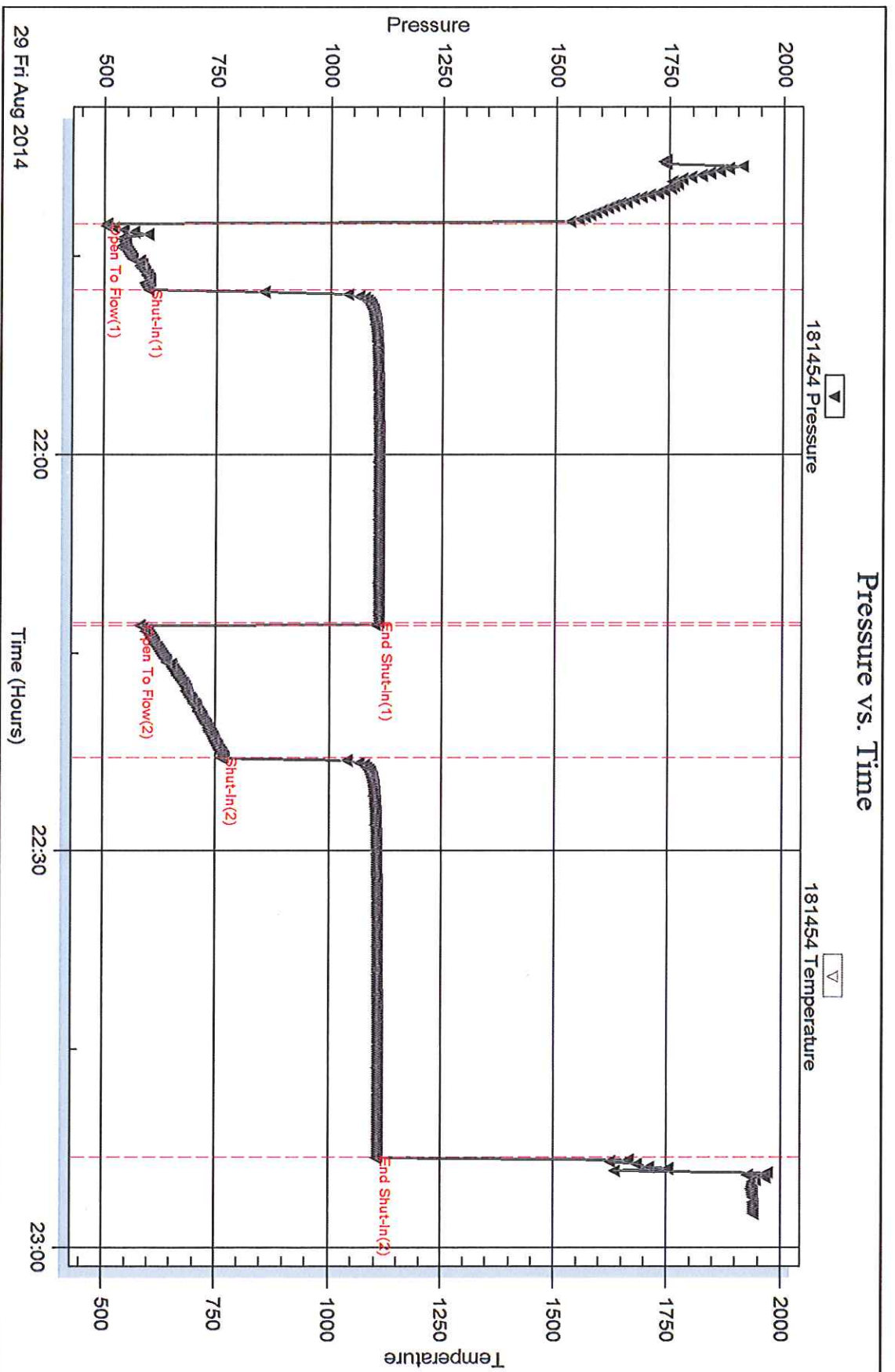


Serial #: 181454

Mull Drilling Inc

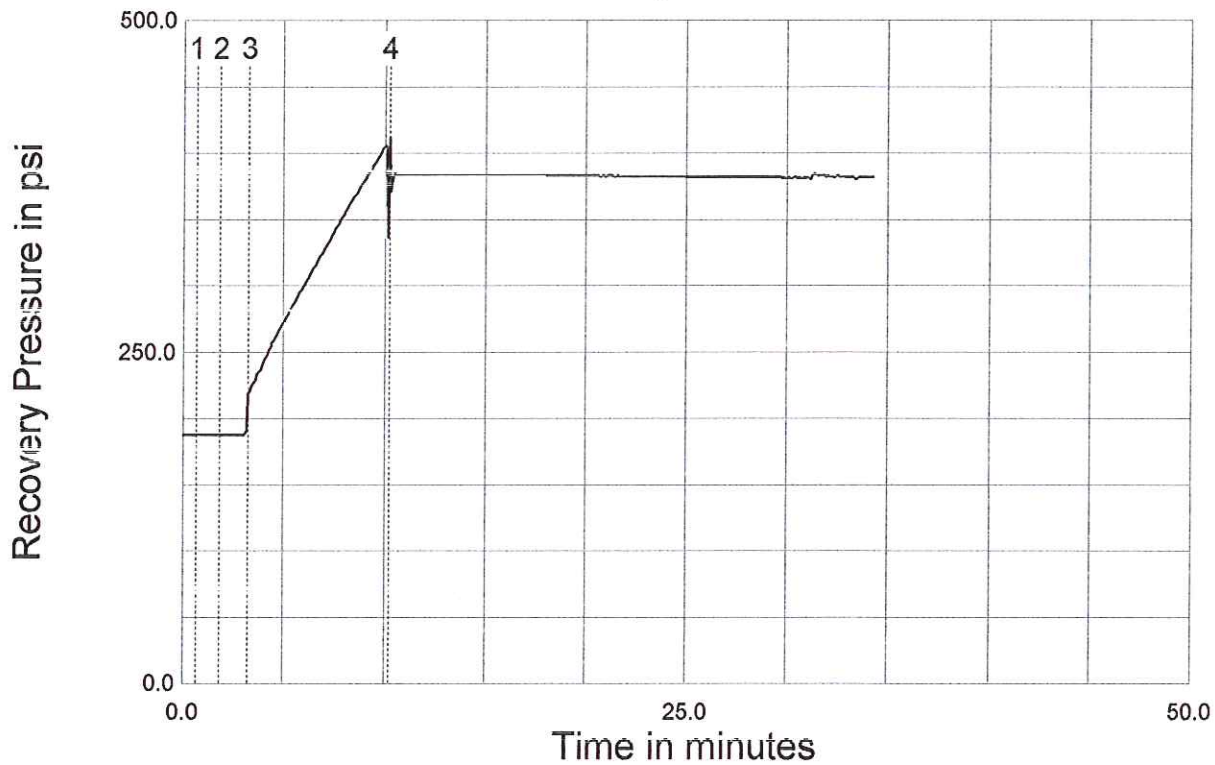
Scherler #1-10

DST Test Number: 5

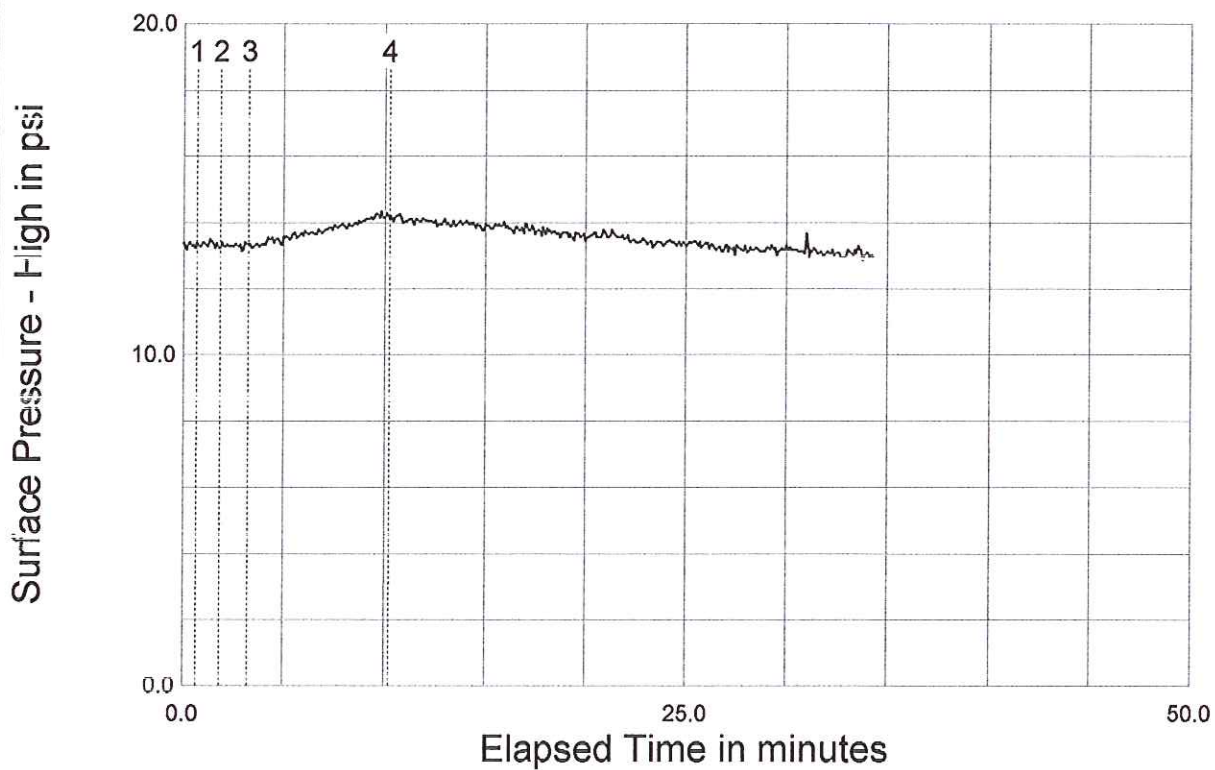


SCHERLER #1-10
DST #FOUR, LANSING J, 4264.5 - 4285.0 FtKB

Recovery Pressure

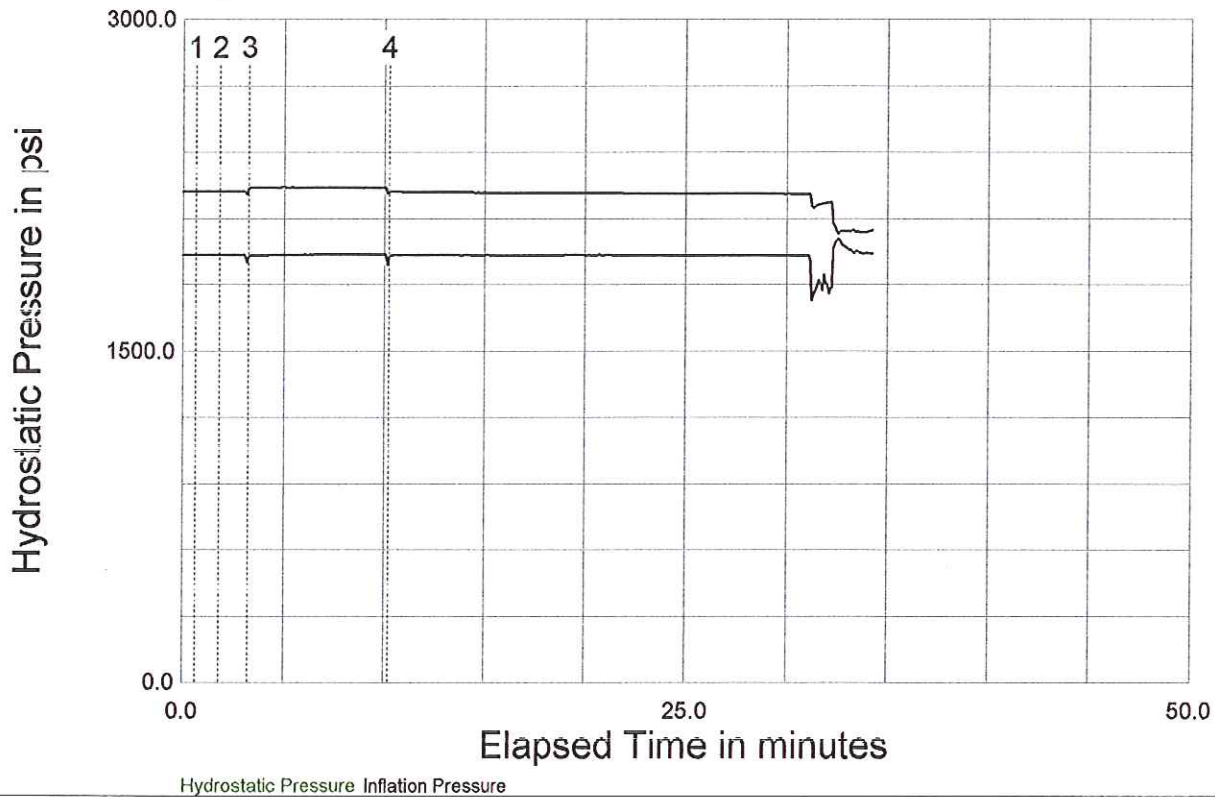


Surface Pressure

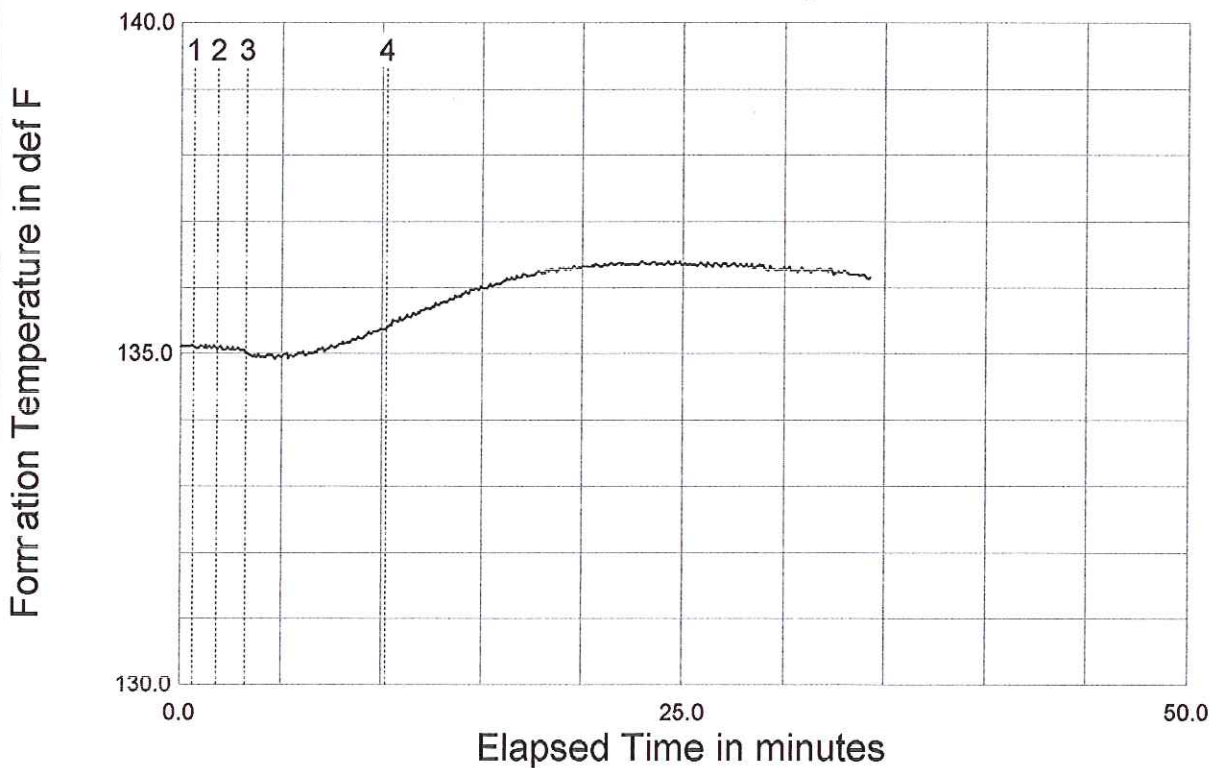


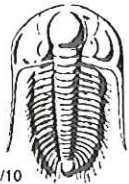
SCHERLER #1-10
DST #FOUR, LANSING J, 4264.5 - 4285.0 FtKB

Hydrostatic & Inflation Pressure



Formation Temperature





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59281

Well Name & No. Scheler #1-10 Test No. 4-5 Date 29-Aug-14
 Company Mull Drilling Inc Elevation 4148 KB 4159 GL
 Address _____
 Co. Rep / Geo. Phil Askey Rig Murfin #20
 Location: Sec. 10 Twp. 17S Rge. 45 Co. Kiowa State Col

Interval Tested 4264.5-4285.0, 4310.5-4331.0 Zone Tested Lansing "J", Lansing "K"
 Anchor Length na Drill Pipe Run 135, 136 Mud Wt. 9.3
 Top Packer Depth 4264.5, 4310.5 Drill Collars Run 0, 0 Vis 60
 Bottom Packer Depth 4285.0, 4331.0 Wt. Pipe Run _____ WL 7.2
 Total Depth 5457 Chlorides _____ ppm System LCM _____
 Blow Description no flow, very weak blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>761</u>	<u>Fluid formation fluid + interval mud</u>				
<u>755</u>	<u>Formation fluid + interval mud</u>				

Rec Total _____ BHT 151.5° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic not available, 1748
 (B) First Initial Flow 1216
 (C) First Final Flow 938
 (D) Initial Shut-In 1109
 (E) Second Initial Flow 938
 (F) Second Final Flow 660
 (G) Final Shut-In 1107
 (H) Final Hydrostatic 1948

Initial Open not available, 21:42
 Initial Shut-In 21:45
 Final Flow 22:13
 Final Shut-In 22:23

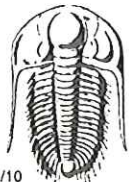
☐ Test \$ 4000.00
☐ Jars _____
☐ Safety Joint _____
☐ Circ Sub _____
☐ Hourly Standby _____
☐ Mileage na
☐ Sampler \$ 250.00
☒ Straddle \$ 750.00
☒ DST Reset \$ 1000.00
☒ Shale Packer \$ 500.00
☒ Logging fluid recovery \$ 750.00
☒ Live Data Transmission
☒ Extra Recorder
☐ Day Standby _____
☐ Accessibility _____
 Sub Total \$ 7250.00

T-On Location _____
 T-Started _____
 T-Open _____
 T-Pulled _____
 T-Out _____
 Comments Damaged Packer
Rebuild - (\$5500.00)
☐ Ruined Shale Packer _____
☒ Ruined Packer \$ 5500.00
☐ Extra Copies _____
 Sub Total \$ 12,750.00
 Total 12,750.00
 MP/DST Disc't _____

Approved By Phil Askey

Our Representative Davin Wine

Trilobite Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59279

4/10

Well Name & No. Mull Drilling Inc. Scheler #1-10 Test No. 1-3 Date 28-Aug-14
 Company Mull Drilling Inc. Elevation 4148 KB 4159 GL
 Address _____
 Co. Rep / Geo. Phil Askey Rig Murffin #20
 Location: Sec. 10 Twp. 17 S Rge. 45 Co. kiowa State Colorado

Interval Tested 5257.5-5278 Zone Tested Mississippian Spargan, Ft. Scott, Marmaton
 Anchor Length na Drill Pipe Run 162, 147, 144 Mud Wt. 9.3
 Top Packer Depth 5257.5, 4513.5, 4434.5 Drill Collars Run 4, 4, 4 Vis 60
 Bottom Packer Depth 5278, 4534.0, 4455.0 Wt. Pipe Run _____ WL 7.2
 Total Depth 5457 Chlorides _____ ppm System LCM _____
 Blow Description no flow, no flow, no flow

Rec <u>61.7</u>	Feet of <u>formation fluids + interval mud</u>	%gas	%oil	%water	%mud
Rec <u>103'</u>	Feet of <u>formation fluids + interval mud</u>	%gas	%oil	%water	%mud
Rec <u>212</u>	Feet of <u>formation fluids + interval mud</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total _____ BHT 151.5 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2585, 2036, 2008 Test \$4000.00 T-On Location 07:30
 (B) First Initial Flow 2500, 0, 110 Jars _____ T-Started 09:30
 (C) First Final Flow 7700, 0, 1100 Safety Joint _____ T-Open 15:28
 (D) Initial Shut-In 1080, 78, 1106 Circ Sub _____ T-Pulled 19:04
 (E) Second Initial Flow 2500, 78, 122 Hourly Standby _____ T-Out Reset Dst #2
 (F) Second Final Flow 4100, 99, 206 Mileage 376 mi @ 1.40 \$1654.00 Comments wire line sample for Dst #2 - \$250.00
 (G) Final Shut-In 1039, 1199, 985 Sampler \$250.00
 (H) Final Hydrostatic 2410, 1999, 1943 Straddle \$750.00

Initial Open 15:28, X, 06:12 Live Data Transmission _____
 Initial Shut-In 16:03, 00:36, 06:46 Shale Packer \$750.00
 Final Flow 17:03, 01:21, 06:46 DST Reset \$1000.00
 Final Shut-In 19:04, 02:51, 07:39 Extra Recorder \$750.00
 Sub Total \$10,904.00 MP/DST Disc't _____

Approved By Phil Askey Our Representative Davin Wine

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