

ENGINEERING FIELDS
08/26/2010



765

765

Belknap 17 - 34N - 05E

NGRN

33255



NORTHERN MICHIGAN EXPLORATION COMPANY

March 10, 1983

Mr. Tom Godbold
Department of Natural Resources
Stevens T. Mason Bldg, Box 30028
Lansing, MI 48909

Dear Mr. Godbold:

Please find enclosed corrected daily production figures for the NOMEKO Tosch Molson #1-17, Permit #33,255, Belknap Township, Presque Isle County, and a monthly summary of oil production for the special 90 day production test from November 22, 1982 to February 22, 1983.

If you have any questions please call.

Sincerely yours,

Art Matzkanin

Art Matzkanin
Petroleum Engineer

Enc

CC: Ron Bacon, Michigan Oil

RECEIVED

MAR 14 1983

GEOLOGICAL SURVEY

33255

TOSCH MOLSON #1-17 PRODUCTION
SPECIAL 90 DAY TEST: NOV. 22, 1982 TO FEB. 22, 1983

Date	Oil	Gas (Mcf)	Wtr	FTP	FCP	Remarks
11-22-82	220 bbls	83*	0			
11-23-82	122	39*	3			
11-24-82	112	28*	0	335#	635#	Meter froze treater out. Temp at 140°.
11-25-82	91	48*	0	195#	550#	Almost dead while cutting.
11-26-82	222	62*	4	280#	530#	6'4" oil treated 126 bbls.
11-27-82	64	20*	4	220#	485#	Treater out. Oil on tank.
11-28-82	75.8	70*	0	180#	455#	Tubing press is dropping fast.
11-29-82	63.2	63*	0	155#	380#	Press still dropping.
11-30-82	6.4	2*	0	50#	430#	Quit flowing.
12-1-82						Shut in - rods.
12-2-82						Shut in - rods.
12-3-82						Shut in - rods.
12-4-82	See remarks					53 bbls mixed fluid. By pass to tank.
12-5-82	See remarks					53 bbls mixed fluid. By pass to tank.
12-6-82	See remarks					23 bbls mixed fluid. By pass to tank.
12-7-82	See remarks					6 bbls mixed fluid. By pass to tank.
12-8-82	83 bbls	0	0	45#	100#	By passed - pumping direct to tank.
12-9-82	0	0	62	45#	200#	Pulled 62 bbls wtr off oil tanks. PU went dn 4:00 pm.
12-10-82						Went to well, put on new mag, got running.
12-11-82						Shut in.

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TOSCH MOLSON #1-17 PRODUCTION
SPECIAL 90 DAY TEST: NOV. 22, 1982 TO FEB. 22, 1983

Date	Oil	Gas (Mcf)	Wtr	FTP	FCP	Remarks
12-12-82	53 bbls	20*	10	60#	140#	
12-13-82	96	Unknown	8	55#	180#	
12-14-82	76	27*	9	60#	220#	Picked up 9.8 BO in 4 hrs.
12-15-82	62.4	39*	3	60#	320#	
12-16-82	81.6	72*	4	60#	320#	Shut off fuel gas from csg, using treater gas.
12-17-82	9.6	4*	0	50#	395#	
12-18-82	0					Shut in - not pumping.
12-19-82	0					
12-20-82						Shut in - changed insert pump.
12-21-82	95	24*	10	58#	145#	Well on line.
12-22-82	103	71*	35	65#	145#	
12-23-82	49.6	170*	20	65#	120#	
12-24-82	49.6	148*	10	60#	100#	
12-25-82	16	35*	8	50#	120#	No chart.
12-26-82	1	32*	14	40#	135#	Bleeding off csg press.
12-27-82	0	2*	16	50#	140#	Shot fluid level, only about 200' fluid in hole.
12-28-82	12.8	0*	0	55#	140#	Gas not recording on chart. Orifice to big. Ordered 3/8" & 1/4" plate.
12-29-82	14.4	1*	0	55#	140#	
12-30-82	14.4	0*	0	55#	140#	
12-31-82	23.2	0*	0	55#	140#	
1-1-83	14.4	0*	0	55#	140#	
1-2-83	16	0*	0	55#	140#	
1-3-83	17.6	0*	0	55#	135#	

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TOSCH MOLSON #1-17 PRODUCTION
SPECIAL 90 DAY TEST: NOV. 22, 1982 TO FEB. 22, 1983

Date	Oil	Gas (Mcf)	Wtr	FTP	FCP	Remarks
1-4-83	17.6 bbls	0*	0	50#	140#	
1-5-83	12.8	0*	0	55#	140#	Had pumper lower csg pressure.
1-6-83	41.6	3*	3	55#	85#	
1-7-83	43.2	26*	4	55#	90#	Installed 3/8" orifice plate.
1-8-83	21.6	34*	0	60#	90#	
1-9-83	17.6	12*	0	70#	80#	
1-10-83	12.8	6*	1	60#	80#	Shot fluid level.
1-11-83	6.4	7*	0	70#	85#	
1-12-83	0	0*	0	100#	105#	No fluid.
1-13-83	0	0*	0	100#	100#	Shut in, no fluid, pumped off.
1-14-83						Shut in.
1-15-83						Shut in.
1-16-83						Shut in.
1-17-83	28	42*	0	165#	205#	Pumper put well back on line.
1-18-83	40	23*	0	60#	80#	Mike shot fluid level.
1-19-83	24.8	23*	2	60#	80#	
1-20-83	12.8	10*	0	65#	80#	
1-21-83	17.6	11*	0	70#	80#	
1-22-83	9.6	12*	0	65#	80#	
1-23-83						Shut off 1:00 pm.
1-24-83						Shut in.
1-25-83						Shut in.
1-26-83	20	32*	0	95#	100#	Started up in morning.
1-27-83	6.4	1*	0	100#	105#	

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TOSCH MOLSON #1-17 PRODUCTION
SPECIAL 90 DAY TEST: NOV. 22, 1982 TO FEB. 22, 1983

Date	Oil	Gas (Mcf)	Wtr	FTP	FCP	Remarks
1-28-83	1.6 bbls	4*	0	100#	105#	
1-29-83	1.6	0**				Shut in flowline plugged.
1-30-83						Shut in.
1-31-83						Shut in.
2-1-83						Shut in.
2-2-83	36.7	50**	0	60#	120#	Csg gas being bled through meter run.
2-3-83	28	21**	0	105#	105#	
2-4-83	20	5.6**	2	65#	105#	
2-5-83	14.8	23.2**	4	70#	90#	
2-6-83	9.6	6.2**	0	85#	85#	
2-7-83	16	22**	0	85#	90#	
2-8-83	11.2	7.6**	0	80#	90#	
2-9-83	21.6	3.7**	0	80#	90#	
2-10-83	21.6	9**	2	60#	65#	Wtr pump quit on line heater. Will replace.
2-11-83	20	10**	2	60#	60#	Wtr pump quit on line heater.
2-12-83	9.6	12**	2	50#	60#	
2-13-83	12.8	10**	0	60#	70#	
2-14-83	11.2	6**	1	60#	60#	
2-15-83	11.2	4**	1	60#	60#	
2-16-83	11.2	1**	2	60#	70#	
2-17-83	9.6	1**	1	60#	70#	
2-18-83	11.2	2**	2	70#	70#	
2-19-83						No production.
2-20-83						Shut in.

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TOSCH MOLSON #1-17 PRODUCTION
SPECIAL 90 DAY TEST: NOV. 22, 1982 TO FEB. 22, 1983

<u>Date</u>	<u>Oil</u>	<u>Gas (Mcf)</u>	<u>Wtr</u>	<u>FTP</u>	<u>FCP</u>	<u>Remarks</u>
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*Mcf From Intergrated Gas Charts
**Estimated From Gas Charts

<u>Summary</u>	<u>Days Oil Produced</u>	<u>Estimated Produced Oil</u>	<u>Estimated Produced Gas</u>
Jan 8, 1983 to Feb 18, 1983	32	497.1	411.3

33255

SUMMARY OF PRODUCTION FOR 90 DAY TEST PERIOD
(NOV. 22, 1982 TO FEB. 22, 1982) FOR TOSCH MOLSON #1-17

Total Sales: 2491 bbls oil

SUMMARY OF DAILY OIL PRODUCTION

November 1982	976.4
December 1982	840.6*
January 1983	384
February 1983	276.3

*Does not include production from December 4-7, 1982.

33255



NORTHERN MICHIGAN EXPLORATION COMPANY

February 14, 1983

RECEIVED
FEB 15 1983
GEOLOGICAL SURVEY

Mr. Tom Godbold
Geological Survey Division
Department of Natural Resources
Stevens T. Mason Bldg., Box 30028
Lansing, MI 48909

Dear Tom:

Enclosed is a copy of the daily production summary for the Tosch Molson #1-17, permit number 33255, since the special 90 day production test began November 24, 1982. Also enclosed is a copy of a bottom hole pressure test taken prior to the time the production test began dated November 1, 1982. It is of interest to note that the gas well is set up for 0-100 in. H₂O and 0-150 psi static in reference to your inquiry as regards the gas meter calibration.

If you have any questions please call.

Sincerely yours,

Arthur D. Matzkanin
Arthur D. Matzkanin

Enc

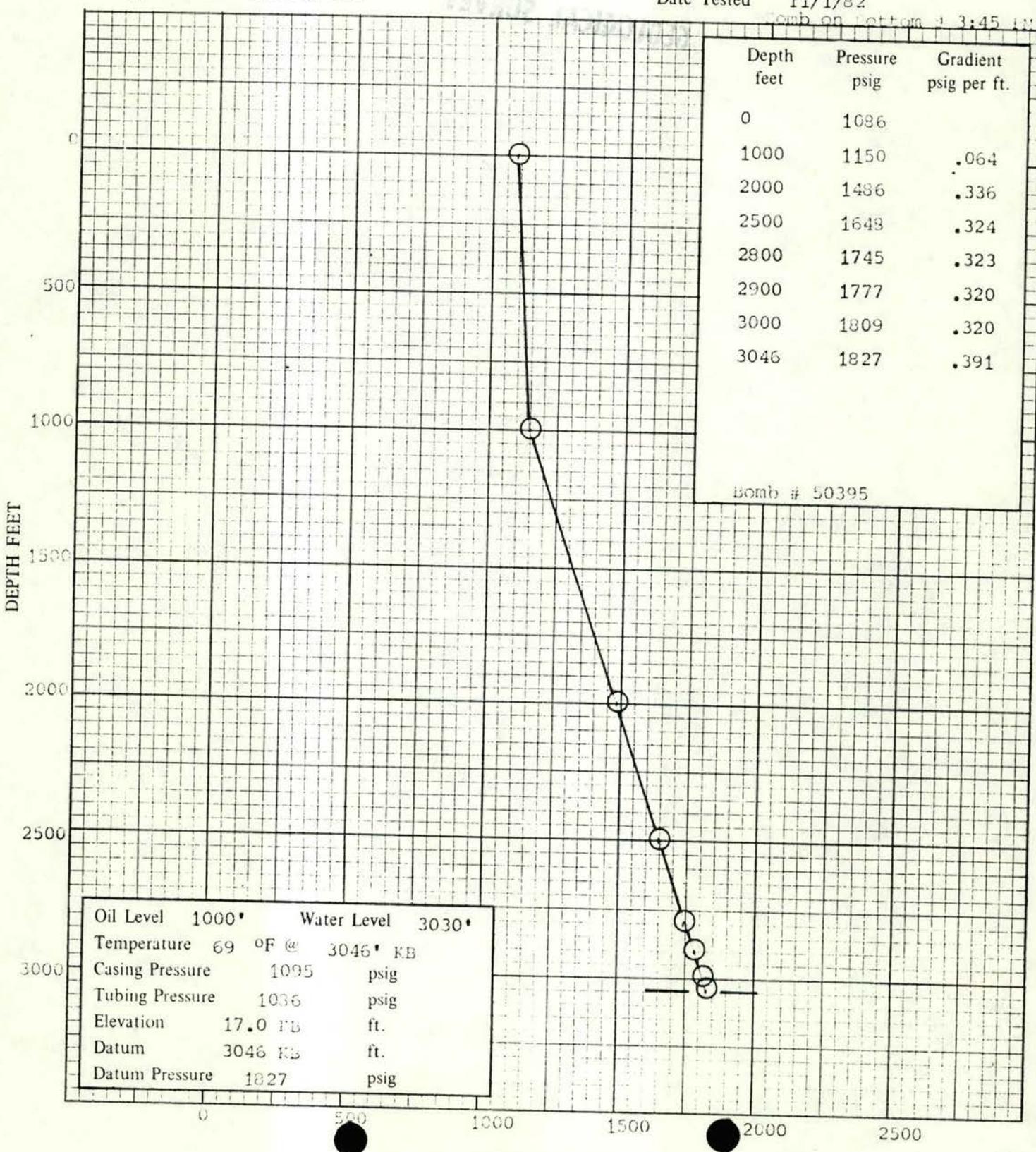
ADM/vk

33255

BOX NO. 52
KALKASKA, MICHIGAN 49646

PRESSURE SURVEY

Company Northern Michigan Exploration Co. County Presque Isle
 Field State Michigan
 Lease and Well Name Tosch - Nelson #1-17 Formation
 Type of Test Static BHP Date Tested 11/1/82



PRESSURE PSIG

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FEB 15 1983
GEOLOGICAL SURVEY

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
11-24-82	112 bbls	55	0	335#	635#	Meter froze treater out. Temp. at 140°.
11-25-82	91 bbls	66	2	195#	550#	Almost dead while cutting.
11-26-82	94 bbls	Froze	-	280#	530#	6' 4" oil treated 126 bbls
11-27-82	64 bbls	Froze	4	220#	485#	Treater out Oil on tank
11-28-82	75.8 bbls	71	1-2	180#	455#	Tubing press. is dropping fast
11-29-82	63.2 bbls	42	0	155#	380#	Press. still droppi
11-30-82	6.4 bbls	-	-	50#	430#	Quit flowing
12-1-82						Shut in - Rods
12-2-82						Shut in - Rods
12-3-82						Shut in - Rods
12-4-82						Shut in - Rods
12-5-82						53 bbls mixed fluid By pass to tank
12-6-82						53 bbls mixed fluid By pass to tank
12-7-82						23 bbls mixed fluid By pass to tank
12-8-82						6 bbls mixed fluid By pass to tank

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
12-9-82	83 bbls	0	0	45#	110#	By passed - Pumping direct to tank
12-10-82	0	0	62	45#	200#	Pulled 62 bbls water off oil tanks P.U. went down 4:00 pm
12-11-82						Went to well, put on new mag, got running
12-12-82	86 bbls	30	-	60#	180#	
12-13-82	76 bbls	38	-	60#	220#	Picked up 9.8 BO in 4 hours
12-14-82	62.4 bbls	36	3	60#	320#	
12-15-82	81.6 bbls	46	4	60#	320#	Shut off fuel gas from casing, using treater gas
12-16-82	9.6 bbls	-	-	50#	395#	
12-17-82	0					Shut in - not pumping
12-18-82	0					
12-19-82						Shut in
12-20-82						Shut in-changed insert pump
12-21-82	95 bbls	-	10	58#	145#	Well on line
12-22-82	103 bbls	-	35	65#	145#	
12-23-82	49.6 bbls	-	20	65#	120#	

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
12-24-82	49.6 bbls	19	10 bbls	60#	100#	
12-25-82	16 bbls		8 bbls	50#	120#	No chart
12-26-82	1 bbl	4	14 bbls	40#	135#	
12-27-82	0 bbls	0	16 bbls	50#	140#	Shot fluid level, only about 200' fluid in hole
12-28-82	12.8 bbls	0	0 bbls	55#	140#	Gas not recording on chart. Orifice to big Ordered 3/8" & $\frac{1}{4}$ " plate.
12-29-82	14.4 bbls	0	0 bbls	55#	140#	
12-30-82	14.4 bbls	0	0 bbls	55#	140#	
12-31-82	23.2 bbls	0	0 bbls	55#	140#	
1-1-83	14.4 bbls	0	0 bbls	55#	140#	
1-2-83	16 bbls	0	0 bbls	55#	140#	
1-3-83	17.6 bbls	0	0 bbls	55#	135#	
1-4-83	17.6 bbls	0	0 bbls	50#	140#	
1-5-83	12.8 bbls	0	0 bbls	55#	140#	Had pumper lower casing pressure
1-6-83	41.6 bbls	0	3 bbls	55#	85#	
1-7-83	43.2 bbls	0	4 bbls	55#	90#	Installed 3/8" orifice plate

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
1-8-83	21.6 bbls	27	0 bbls	60#	90#	
1-9-83	17.6 bbls	18	0 bbls	70#	80#	
1-10-83	12.8 bbls	12	1 bbl	60#	80#	Shot fluid level
1-11-83	6.4 bbls	11.5	0 bbls	70#	85#	
1-12-83	0 bbls	0	0 bbls	100#	105#	No fluid
1-13-83	0 bbls	0	0 bbls	100#	100#	Shut in, no fluid, pumped off
1-14-83						Shut in
1-15-83						Shut in
1-16-83						Shut in
1-17-83	28 bbls	8	0 bbls	165#	205#	Pumper put well back on line
1-18-83	40 bbls	19	0 bbls	60#	80#	Mike shot fluid level
1-19-83	24.8 bbls	11.5	2 bbls	60#	80#	
1-20-83	12.8 bbls	8	0 bbls	65#	80#	

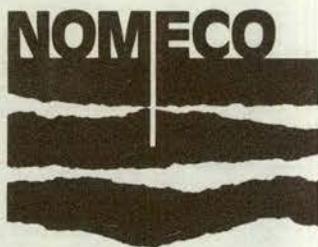
TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
1-21-83	17.6 bbls	12	0	70#	80#	
1-22-83	9.6	12.5	0	65#	80#	
1-23-83						Shut off 1:00 p.m.
1-24-83						Shut in
1-25-83						Shut in
1-26-83	20 bbls	0	1-2	95#	100#	Started up in morning
1-27-83	6.4 bbls	8EST	0	100#	105#	
1-28-83	1.6 bbls	3EST	0	100#	105#	
1-29-83						Shut in Flow line PLUGGED
1-30-83						Shut in
1-31-83						Shut in
2-1-83						Shut in
2-2-83	36.7 bbls	*	0	60#	120#	
2-3-83	28 bbls	*	0	105#	105#	
2-4-83	20 bbls	*	2	65#	105#	

1000-PIECE PRODUCTION

33255



NORTHERN MICHIGAN EXPLORATION COMPANY

February 28, 1983

RECEIVED

MAR 02 1983

GEOLOGICAL SURVEY

Mr. Tom Godbold
Department of Natural Resources
Stevens T. Mason Bldg, Box 30028
Lansing, MI 48909

Dear Mr. Godbold:

Northern Michigan Exploration Company requests an exception to the "No Flare Order" for the Tosch Molson #1-17, Permit No. 33,255, Belknap Township, Presque Isle County, Michigan, as provided in Special Order #3-71 (Amended). This request is made upon the section of the order which applies to wells with marginal producing capacities. Attached to this letter is the following information:

1. Daily production summary for the special 90 day production test period from November 24, 1982 to February 22, 1982.
2. Review of economic considerations in reply to your October 1, 1982 letter to Mr. Ron Bacon, Michigan Oil Company, Jackson, Michigan.
3. Gas analysis for the well.
4. Copies of available daily gas charts for February 2-18, 1983.

As can be summarized from the attached daily production sheets for the special 90 day production test, the NOMEKO Tosch Molson #1-17 has not produced enough gas in the January 8, 1983 to February 18, 1983, time period to justify the expense of compression installation even if a pipeline existed in the area. During January 8, 1983 to February 18, 1983, a total of 359.8 Mcf was measured through the gas meter for the 31 days oil was produced. In order to pay for the expense of compression and the use of fuel, 870 Mcf/30 day time period would be needed for compression based upon \$3.50/Mcf gas, \$2,000 monthly compressor rental charge, and 10 Mcf/day compressor fuel usage.

33255

Based upon the results of the special 90 day production test, NOMEKO respectfully requests that the Tosch Molson #1-17 be granted a permanent exception to the "No Flare Order" as provided in Special Order #3-71.

If there are any questions, please contact me.

Sincerely yours,

Art Matzkanin

Art Matzkanin
Petroleum Engineer

Enc

CC: WHKirschke
RBacon

TOSCH-MOLSON #1-17 PRODUCTION

SPECIAL 90 DAY TEST: November 24, 1982 TO FEBRUARY 22, 1983

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	33255 REMARKS
11-24-82	112 bbls	55	0	335#	635#	Meter froze treater out. Temp. at 140°.
11-25-82	91 bbls	66	2	195#	550#	Almost dead while cutting.
11-26-82	94 bbls	Froze	-	280#	530#	6' 4" oil treated 126 bbls
11-27-82	64 bbls	Froze	4	220#	485#	Treater out Oil on tank
11-28-82	75.8 bbls	71	1-2	180#	455#	Tubing press. is dropping fast
11-29-82	63.2 bbls	42	0	155#	380#	Press. still dropping
11-30-82	6.4 bbls	-	-	50#	430#	Quit flowing
12-1-82						Shut in - Rods
12-2-82						Shut in - Rods
12-3-82						Shut in - Rods
12-4-82						Shut in - Rods
12-5-82						53 bbls mixed fluid By pass to tank
12-6-82						53 bbls mixed fluid By pass to tank
12-7-82						23 bbls mixed fluid By pass to tank
12-8-82						6 bbls mixed fluid By pass to tank

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
12-9-82	83 bbls	0	0	45#	110#	By passed - Pumping direct to tank
12-10-82	0	0	62	45#	200#	Pulled 62 bbls water off oil tanks P.U. went down 4:00 pm
12-11-82						Went to well, put on new mag, got running
12-12-82	86 bbls	30	-	60#	180#	
12-13-82	76 bbls	38	-	60#	220#	Picked up 9.8 BO in 4 hours
12-14-82	62.4 bbls	36	3	60#	320#	
12-15-82	81.6 bbls	46	4	60#	320#	Shut off fuel gas from casing, using treater gas
12-16-82	9.6 bbls	-	-	50#	395#	
12-17-82	0					Shut in - not pumping
12-18-82	0					
12-19-82						Shut in
12-20-82						Shut in-changed inser pump
12-21-82	95 bbls	-	10	58#	145#	Well on line
12-22-82	103 bbls	-	35	65#	145#	
12-23-82	49.6 bbls	-	20	65#	120#	

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
12-24-82	49.6 bbls	19	10 bbls	60#	100#	
12-25-82	16 bbls		8 bbls	50#	120#	No chart
12-26-82	1 bbl	4	14 bbls	40#	135#	
12-27-82	0 bbls	0	16 bbls	50#	140#	Shot fluid level, only about 200' fluid in hole
12-28-82	12.8 bbls	0	0 bbls	55#	140#	Gas not recording on chart. Orifice too big Ordered 3/8" & $\frac{1}{4}$ " plate.
12-29-82	14.4 bbls	0	0 bbls	55#	140#	
12-30-82	14.4 bbls	0	0 bbls	55#	140#	
12-31-82	23.2 bbls	0	0 bbls	55#	140#	
1-1-83	14.4 bbls	0	0 bbls	55#	140#	
1-2-83	16 bbls	0	0 bbls	55#	140#	
1-3-83	17.6 bbls	0	0 bbls	55#	135#	
1-4-83	17.6 bbls	0	0 bbls	50#	140#	
1-5-83	12.8 bbls	0	0 bbls	55#	140#	Had pumper lower casing pressure
1-6-83	41.6 bbls	0	3 bbls	55#	85#	
1-7-83	43.2 bbls	0	4 bbls	55#	90#	Installed 3/8" orifice plate

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
1-8-83	21.6 bbls	27	0 bbls	60#	90#	
1-9-83	17.6 bbls	18	0 bbls	70#	80#	
1-10-83	12.8 bbls	12	1 bbl	60#	80#	Shot fluid level
1-11-83	6.4 bbls	11.5	0 bbls	70#	85#	
1-12-83	0 bbls	0	0 bbls	100#	105#	No fluid
1-13-83	0 bbls	0	0 bbls	100#	100#	Shut in, no fluid, pumped off
1-14-83						Shut in
1-15-83						Shut in
1-16-83						Shut in
1-17-83	28 bbls	8	0 bbls	165#	205#	Pumper put well back on line
1-18-83	40 bbls	19	0 bbls	60#	80#	Mike shot fluid level
1-19-83	24.8 bbls	11.5	2 bbls	60#	80#	
1-20-83	12.8 bbls	8	0 bbls	65#	80#	

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
1-21-83	17.6 bbls	12	0	70#	80#	
1-22-83	9.6	12.5	0	65#	80#	
1-23-83						Shut off 1:00 p.m.
1-24-83						Shut in
1-25-83						Shut in
1-26-83	20 bbls	IS Unknown	1-2	95#	100#	Started up in morning
1-27-83	6.4 bbls	TEST	0	100#	105#	
1-28-83	1.6 bbls	TEST	0	100#	105#	
1-29-83						Shut in FLOWLINE PLUGGED
1-30-83						Shut in
1-31-83						Shut in
2-1-83						Shut in
2-2-83	36.7 bbls	casing gas being 50 bleed through meter run	0	60#	120#	
2-3-83	28 bbls	21	0	105#	105#	
2-4-83	20 bbls	5.6	2	65#	105#	

TOSCH-MOLSON #1-17 PRODUCTION

33255

TOSCH-MOLSON #1-17 PRODUCTION

33255

DATE	OIL	GAS (MCF)	WATER	FTP	FCP	REMARKS
2-11-83	20 bbls	<i>Gas chart not available</i> 10	$\frac{1}{2}$ "	60#	60#	Water pump quit on line heater.
2-12-83	9.6 bbls	<i>Gas chart not available</i> 12	2 bbls	50#	60#	
2-13-83	12.8 bbls	10	0 bbls	60#	70#	
2-14-83	11.2 bbls	6	1 bbl	60#	60#	
2-15-83	11.2 bbls	4	1 bbl	60#	60#	
2-16-83	11.2 bbls	1	2-3 bbls	60#	70#	
2-17-83	9.6 bbls	1	1 bbl	60#	70#	
2-18-83	11.2 bbls	2	2 bbls	70#	70#	
2-19-83						No Production.
2-20-83						Shut in.
<u>Summary</u>	Days oil produced	Estimated produced oil	Estimated produced gas			
JAN 8, 1983 to FEB 18, 1983	31	493.9	359.8			

A DISCUSSION OF ECONOMIC CONSIDERATIONS

Re: Mr. Tom Godbold, Michigan DNR, letter to Mr. Ron Bacon, Michigan Oil Company dated October 1, 1982.

Information requested included:

- 1.. The cost of construction of a gas line for the purpose of establishing a market connection assuming a maximum distance of one mile.
2. The cost and fuel usage for compression to area line pressure of the natural gas produced.

Replies are as follows:

1. Because no pipelines exist in the area no accurate basis exists for the purpose of knowing the cost of pipeline construction in the area. However, the cost is estimated to be \$100,000/mile as based upon two recent MPSC pipeline approvals in Cheboygan and Montmorency counties. As reported in the February 24, 1983, Michigan Oil and Gas News the cost of constructing a .48 mile pipeline for the NOMEKO Canada Creek Herzog #1-14 was estimated to be \$74,000 with an operating pressure of 1050 psi and the cost of constructing a 1.29 mile pipeline for the NOMEKO State-Forest #1-13A was estimated to be \$136,000 with an operating pressure of 1050 psi.
2. Monthly compressor rental charges are estimated to be \$2000. As based upon statements made by NOMEKO production personnel, estimated fuel consumption for two stage compression of 150-180 Mcf/day to 700-800 psi pressure is 14 Mcf/day. Estimated line pressure in the area, whenever pipelines might be installed in the future, is thought to range between 700-1050 psi.

33255

FILE
20807
HOUSTON, TX 77025

SOUTHERN PETROLEUM LABORATORIES, INC.

 P.O. BOX 52768
 LAFAYETTE, LA 70505
 P.O. BOX 10276
 JEFFERSON, LA 70181
 P.O. BOX 378
 ACME, MI 49610

Certificate of Analysis No. 6602

Identification Data:

TOSEH-MOLSON 1-17

NOMEKO

Sample Date: 12/14/82

Sample of: GAS

Conditions: 43 PSIG 0 Deg. F.

Sampled by: NORTHERN MICHIGAN EXPLORATION CO. c.

For: NORTHERN MICHIGAN EXPLORATION CO.

607 BAY STREET Invoice No.

TRAVERSE CITY, MICHIGAN 49684 16 DECEMBER 1982

ANALYSIS: MOL % GPM @ 14.696 PSIA

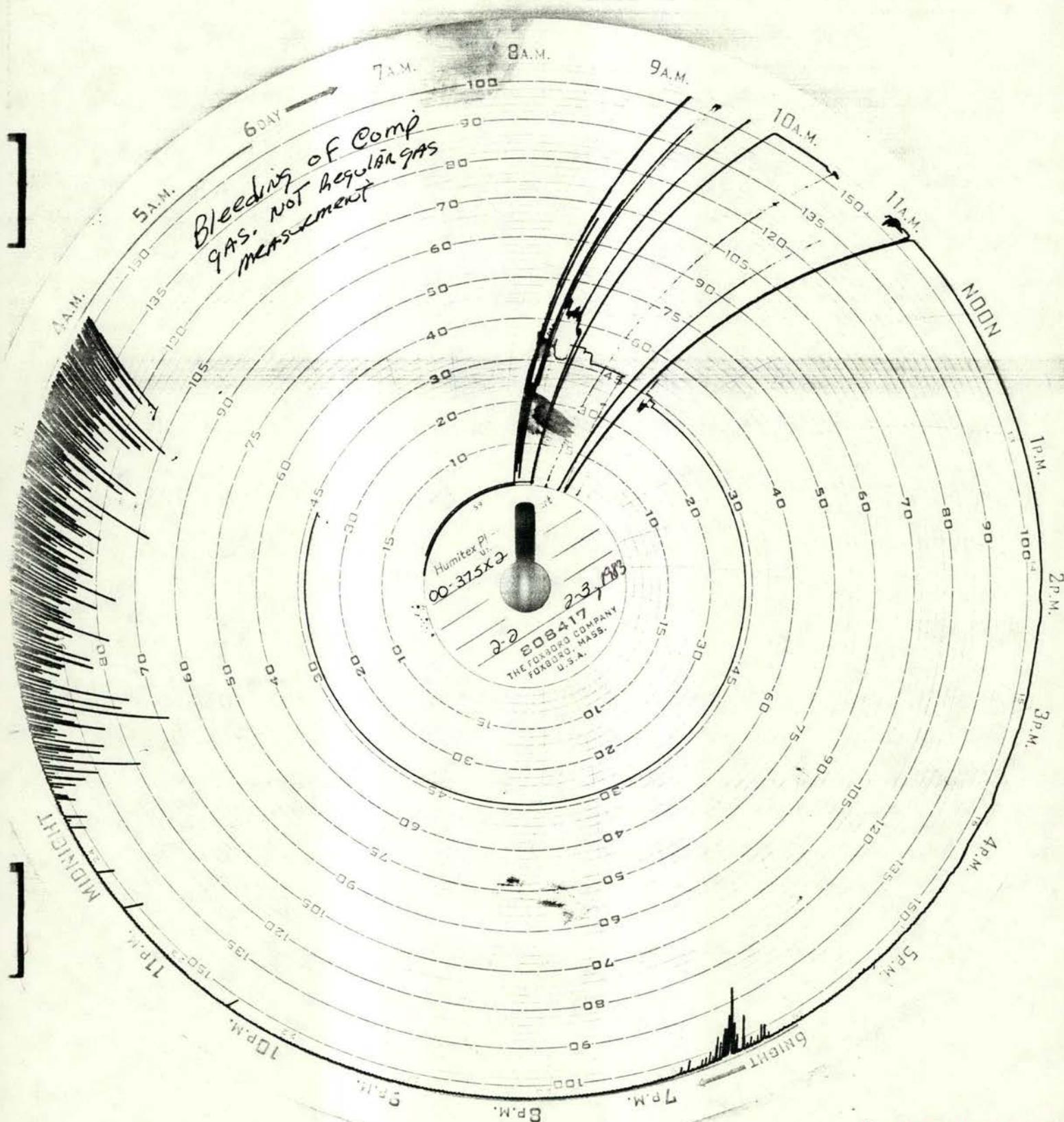
Nitrogen	.89	
Carbon Dioxide	3.45	
Methane	78.36	
Ethane	9.24	
Propane	4.50	1.235
Iso-Butane	1.00	.326
N-Butane	1.23	.387
Iso-Pentane	.54	.197
N-Pentane	.32	.116
Hexanes	.27	.111
Heptanes Plus	.20	.092
	-----	-----
	100.00	2.464

Specific Gravity @ 60 F. (Air=1) .7433

 Calculated B.T.U./Cu. Ft. @14.696 PSIA and 60 F. ;
 Dry Basis 1203
 Wet Basis 1182

Southern Petroleum Laboratories, Inc.

33255

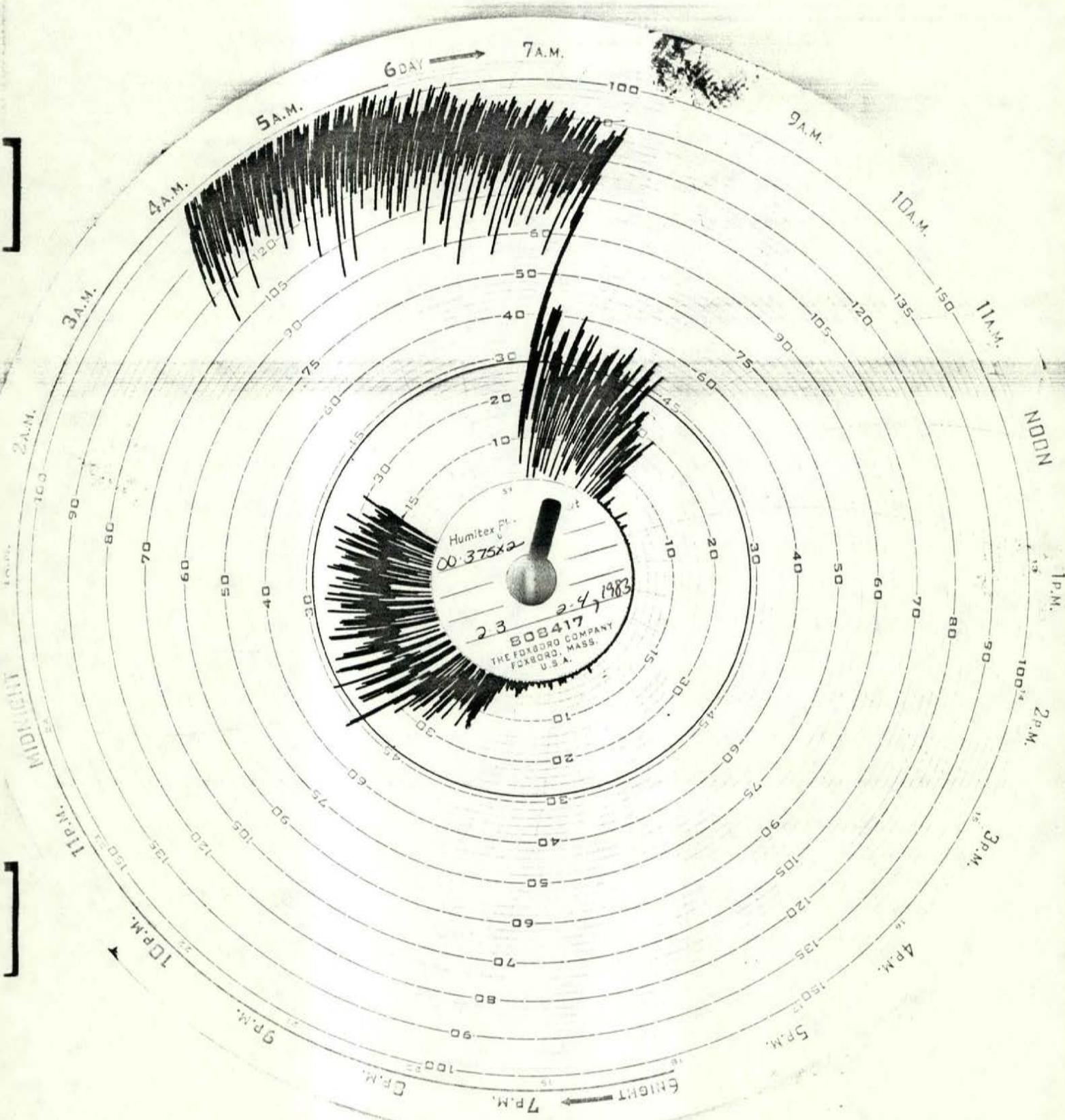


0-100 IN H₂O differential
0-150 psi static

100" @ 145# fibre = 50 mcf

Tisch-massiv
0.375" x 2" 83° arfie
2" x 3" x 3" 83° arfie

33255

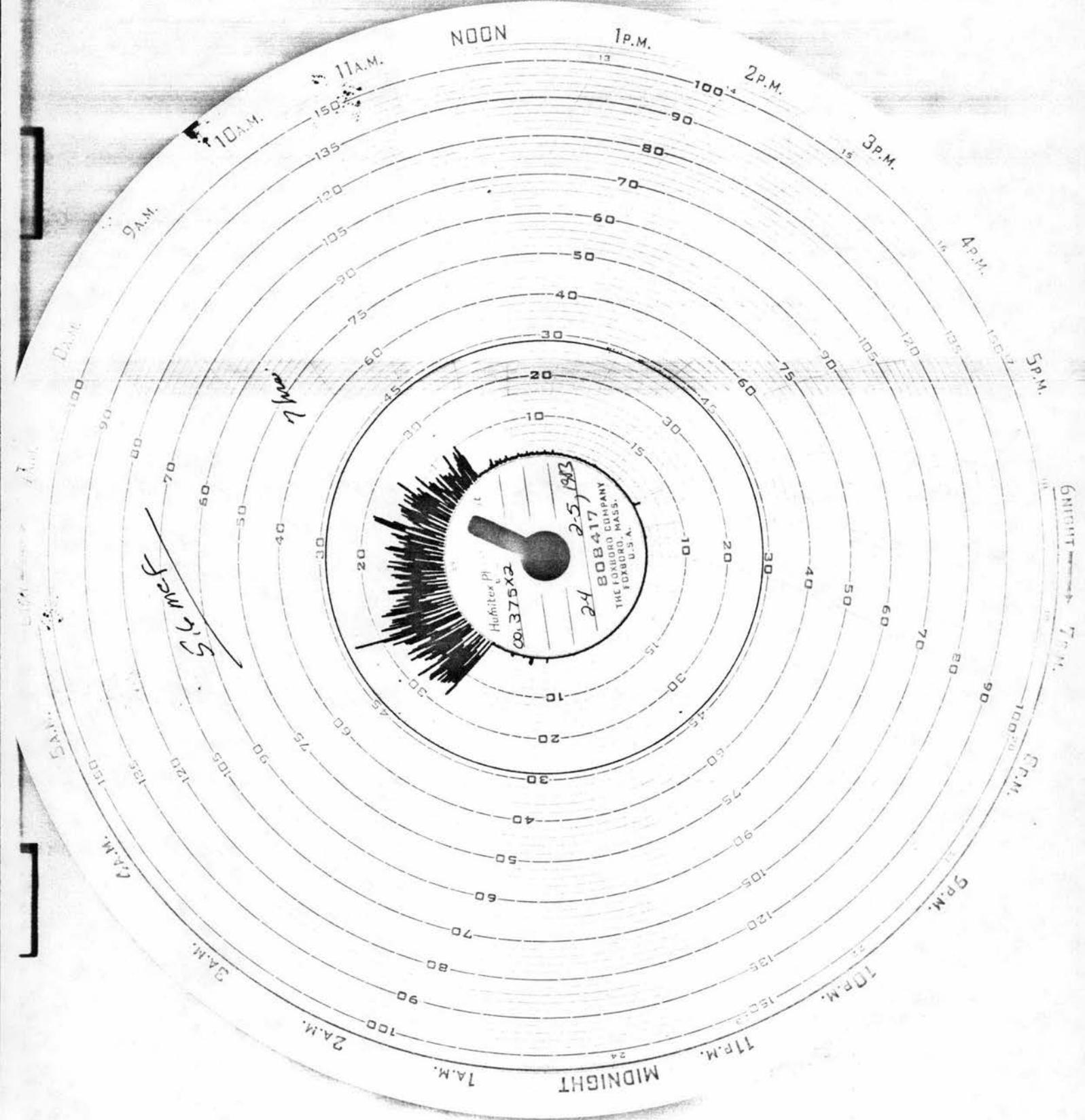


TOTAL PDS = 91,000

Tossk-Mason
2 - 3 00.375x2"
2.4 .375" p3
.375 office

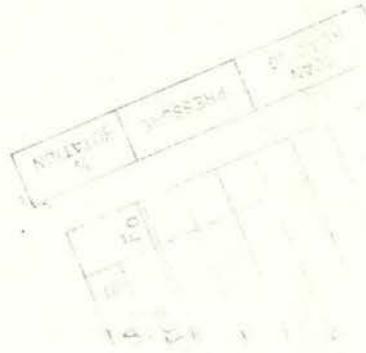
7'3
105

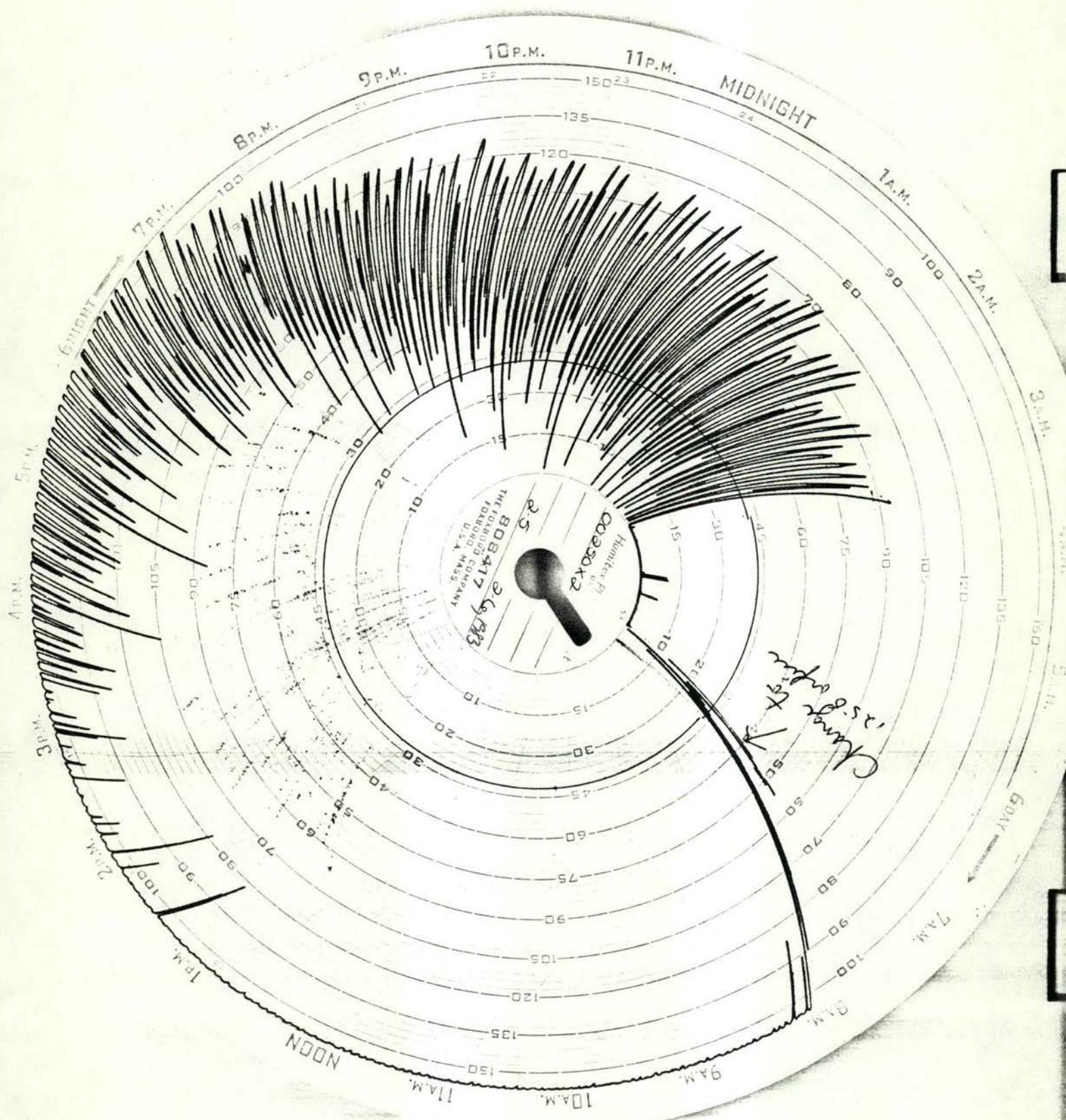




3325

Rock - Melton X0
00.395 00.83
2-4 2-5 3-5





33255

90" @ 42^{ft} x 20m = 23,200

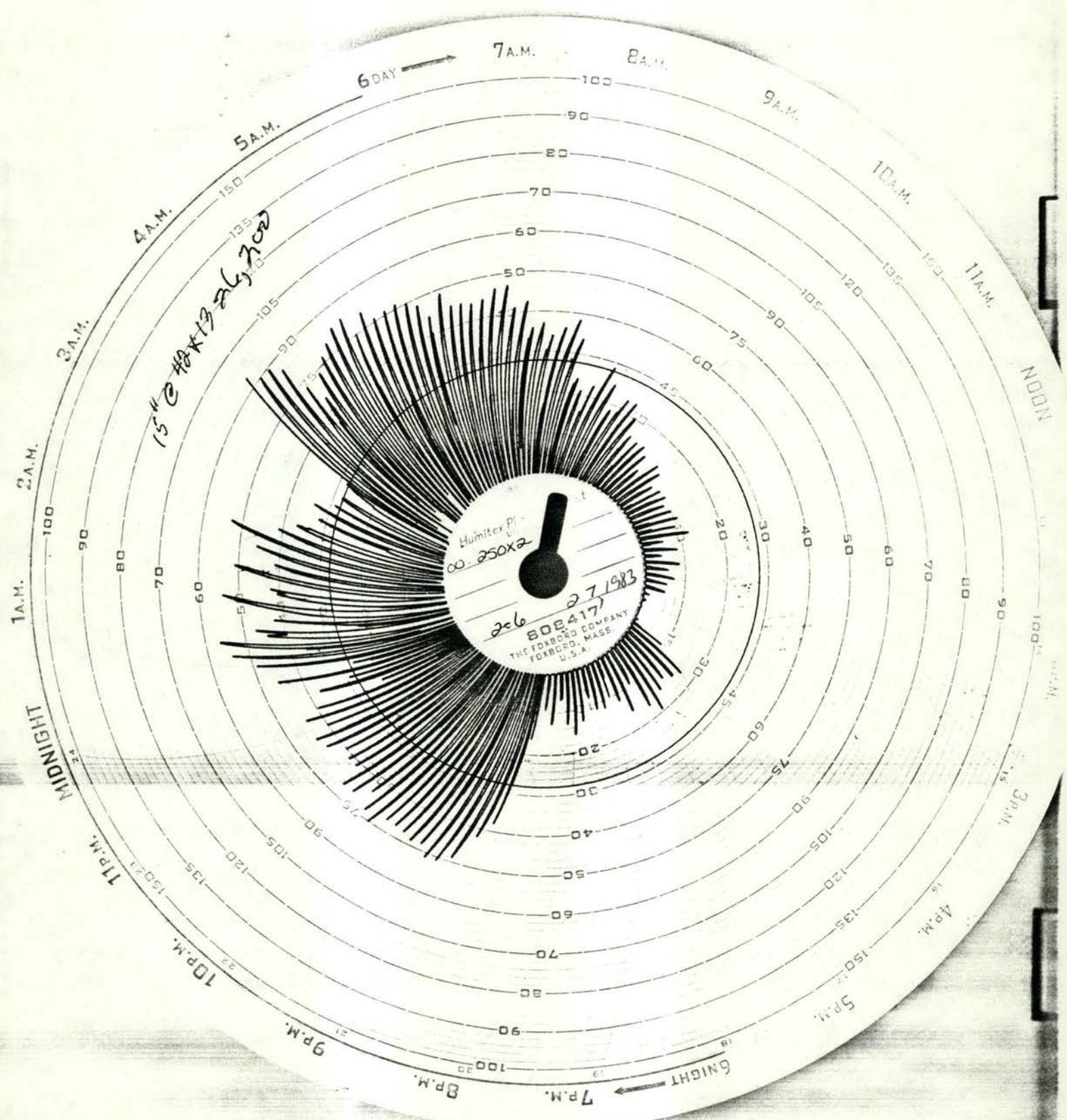
Tosch-Maisen
00.250 x 2

2-5 .83

1250 office

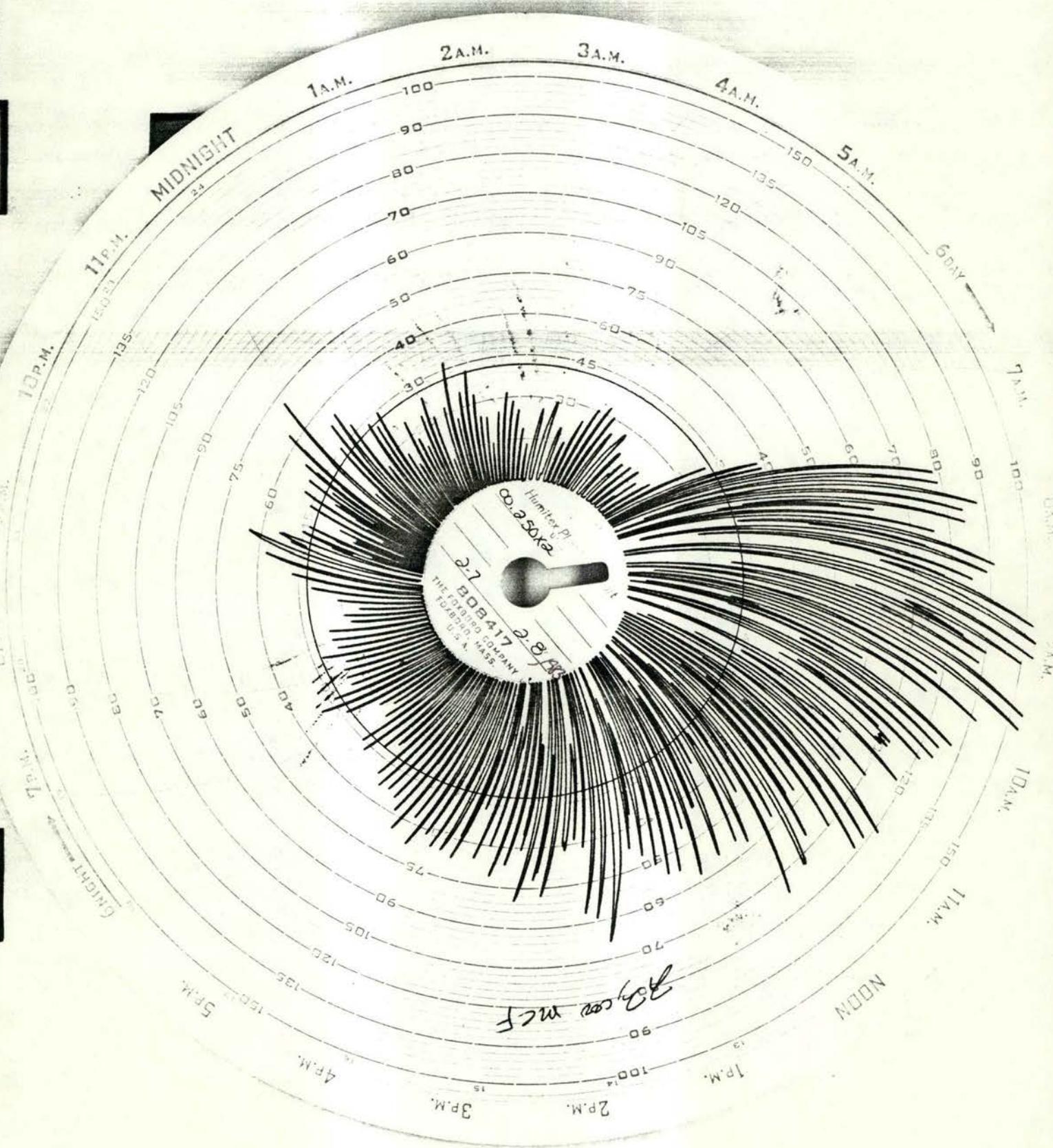


33255



Touch-mols²
00,250+2
2' 6 250
2 7 250
2 8 250
83 fine

33255



Rosch-molten
00-250xx

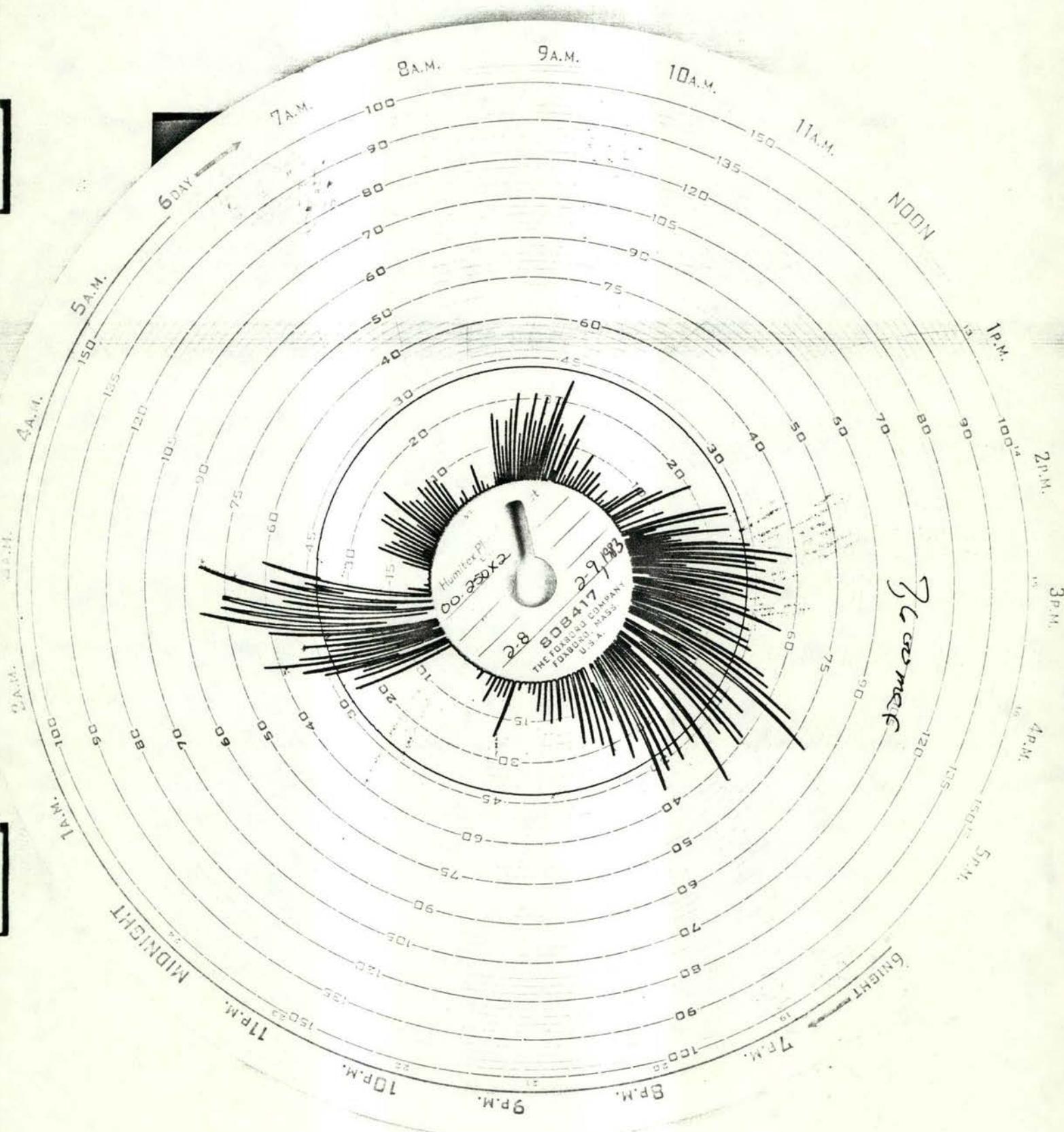
2.7
2.8
2.50
office

83



ROTAT^{ION}
-0.04%

33255

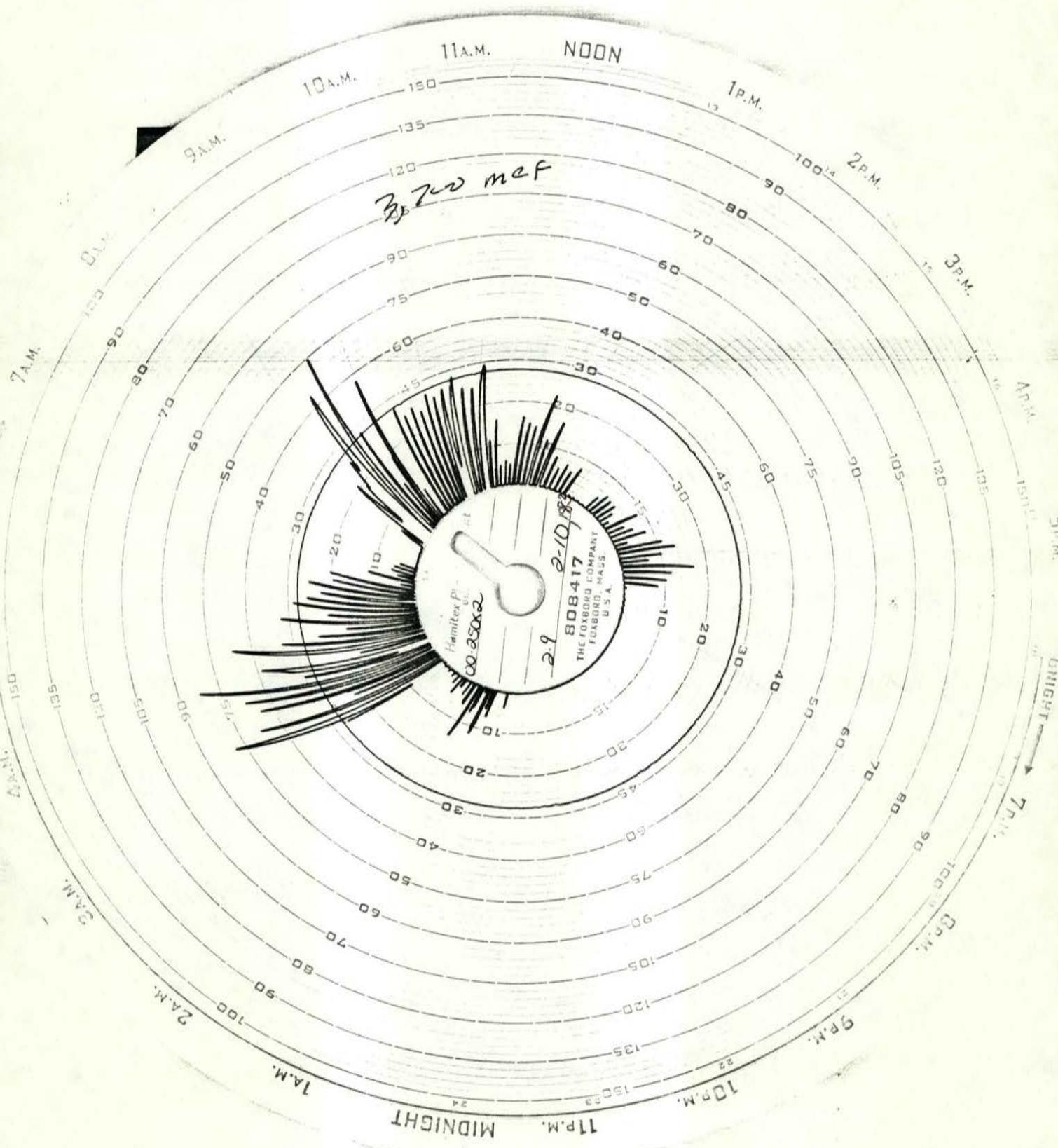


Toschi. Matisse
00. 250x2

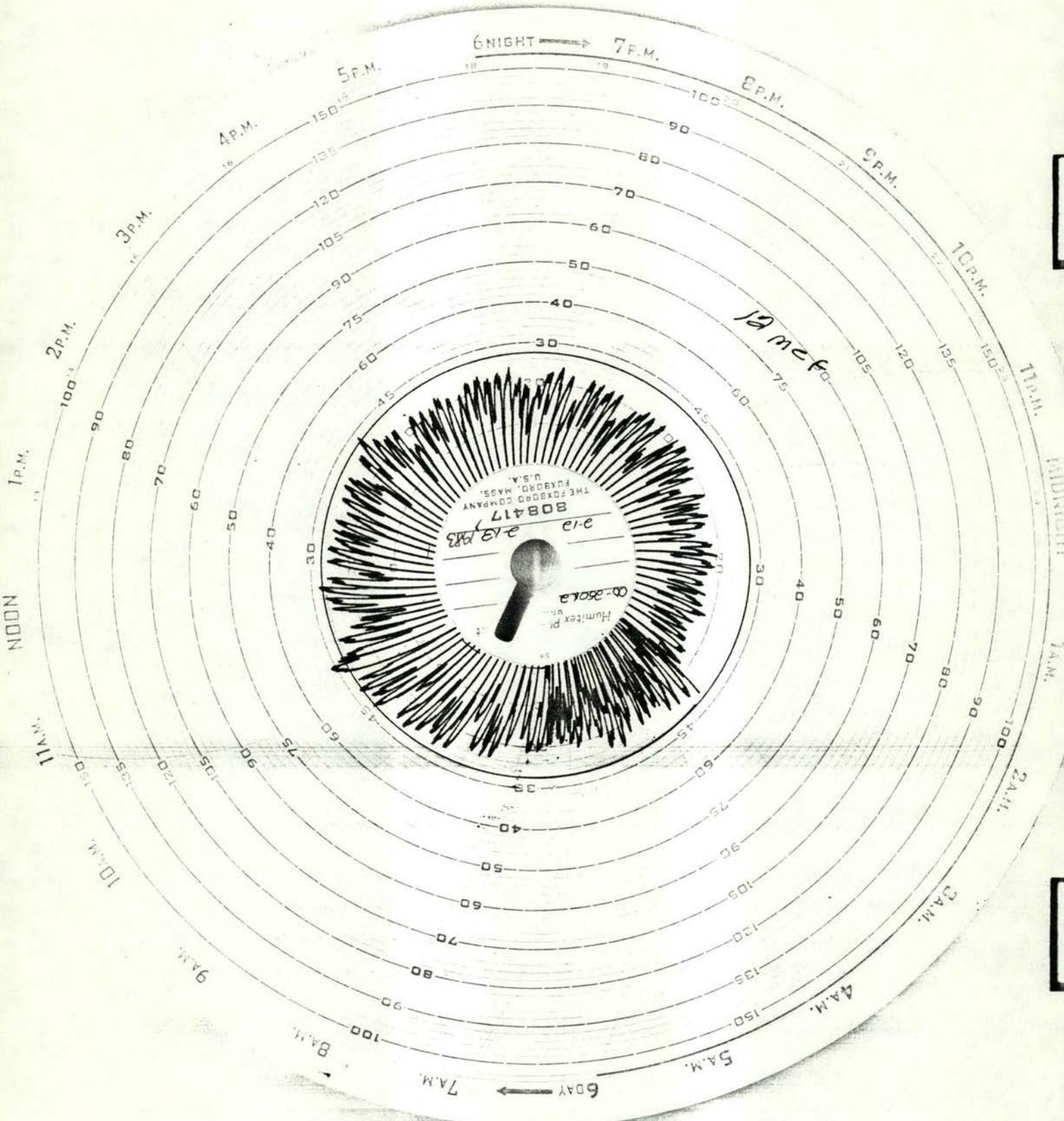
2-8
2-9, 250gr.⁸³



33255



Fosch-Maison
08-850x2
2-9
2-10
1-250
office 83



33255

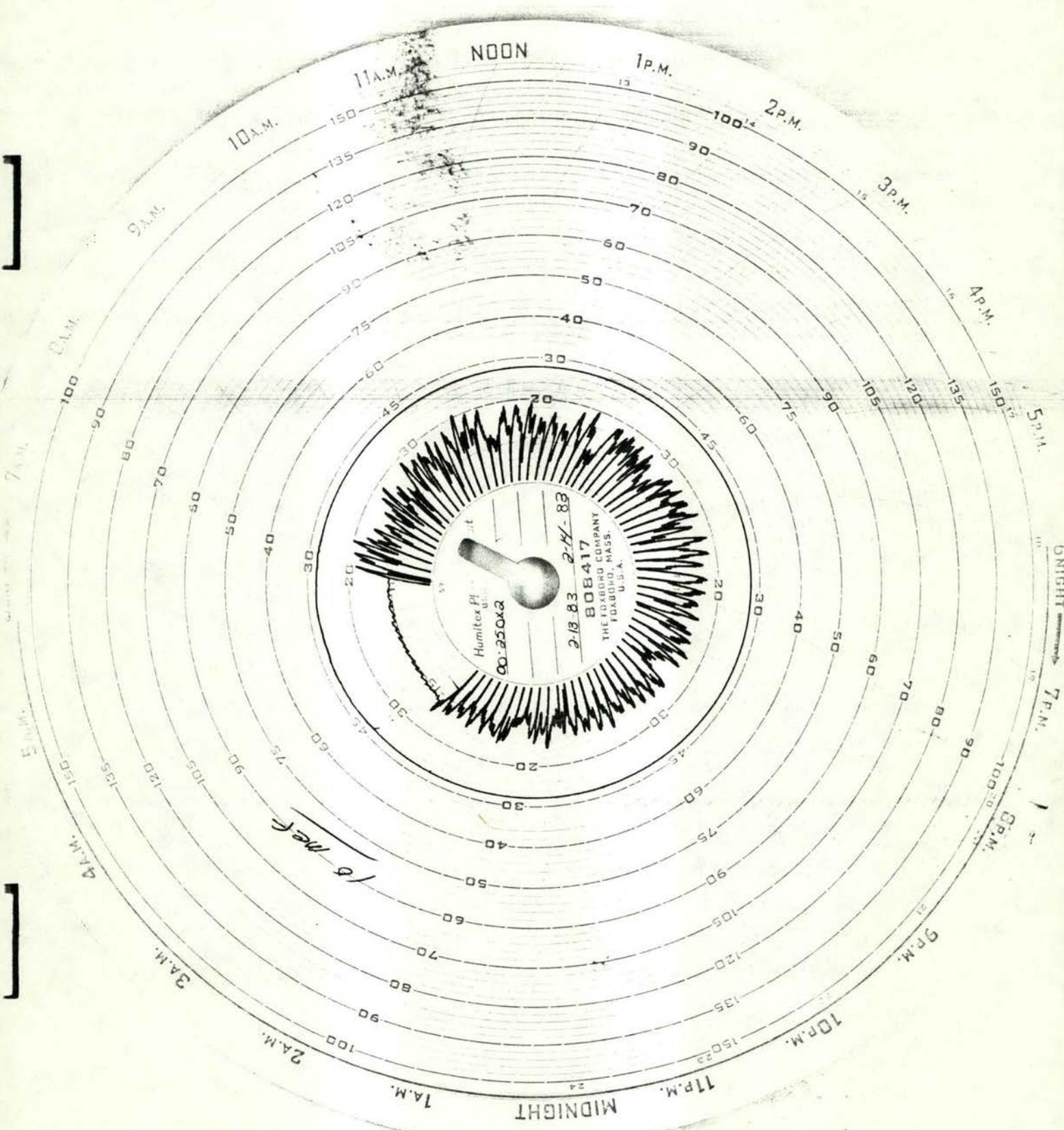
post office
2-12
2-13
2-250

post office
2-12
2-13
2-250

54
G62

ALTON

33255



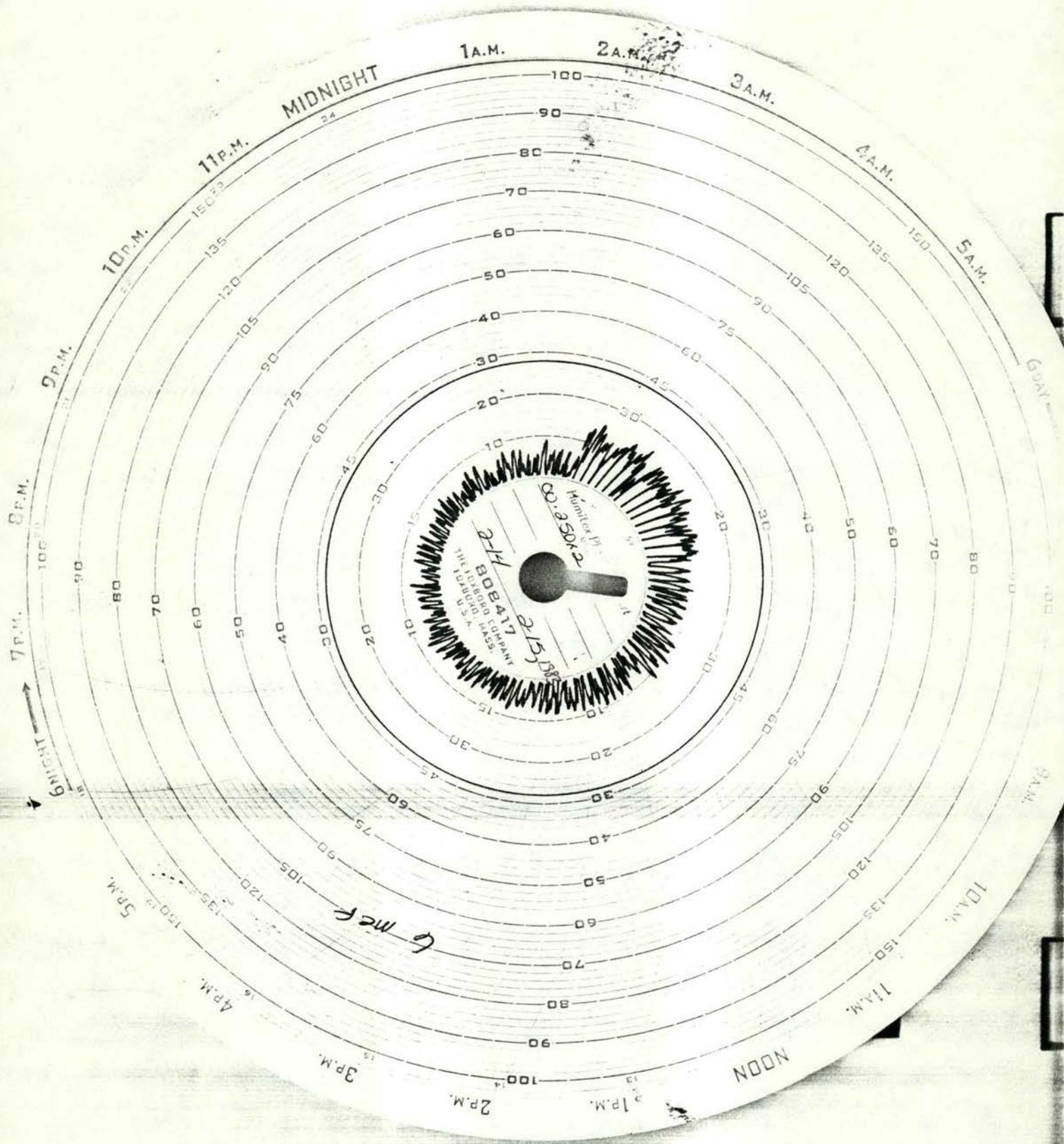
CONSUMERS POWER CO.

STATION NO			
STATION NAME	Tosch-Mason		
OFFICE PLATE NO	00.25042		
CHART NO	2-13		
DATE	2-14	83	
FIELD	.250 office		

RECEIVED DATE TIME

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----





33255

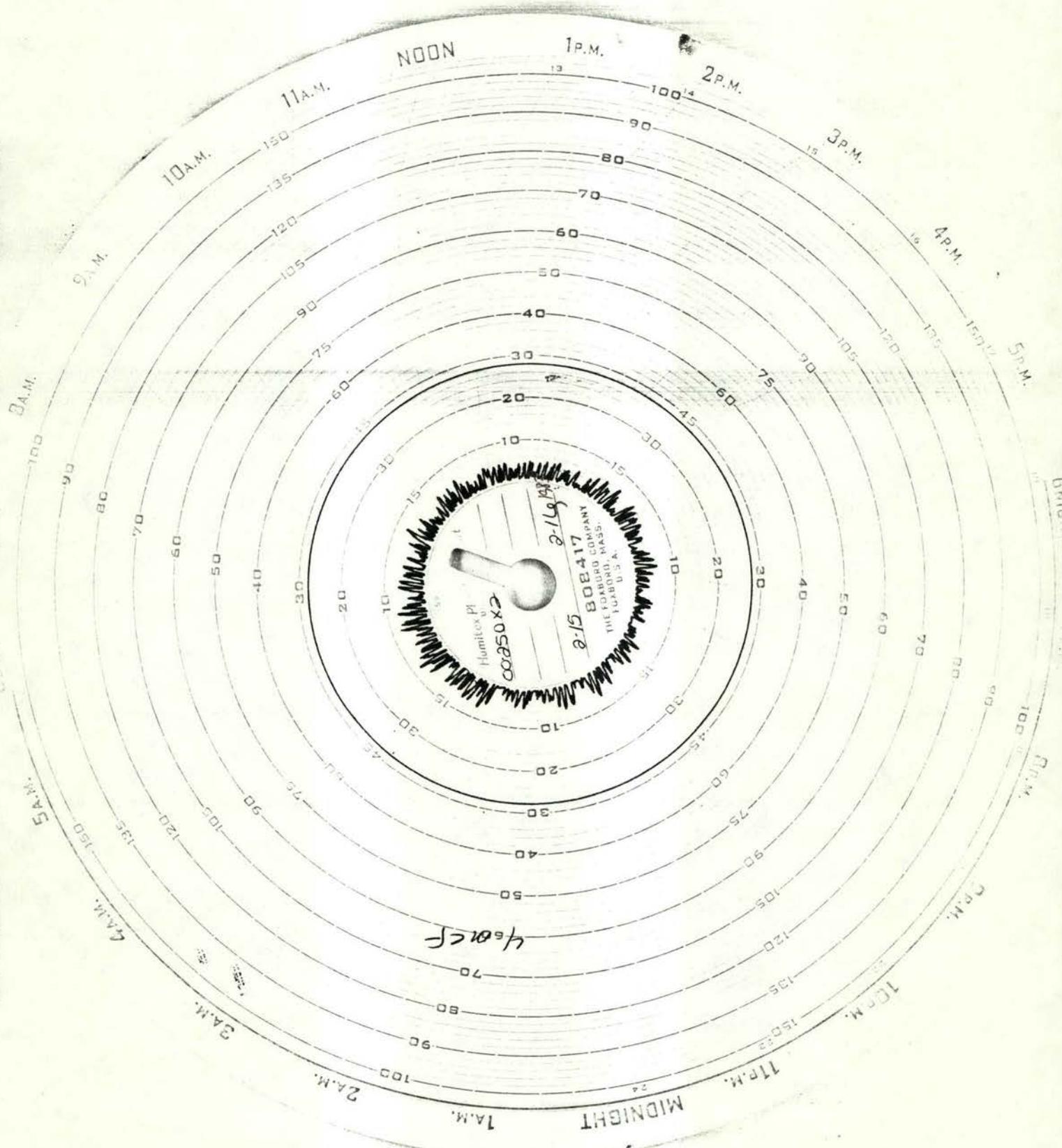
Tosch-Molson

2-14 00.0000x2

2-15

250 83
alpha

33255



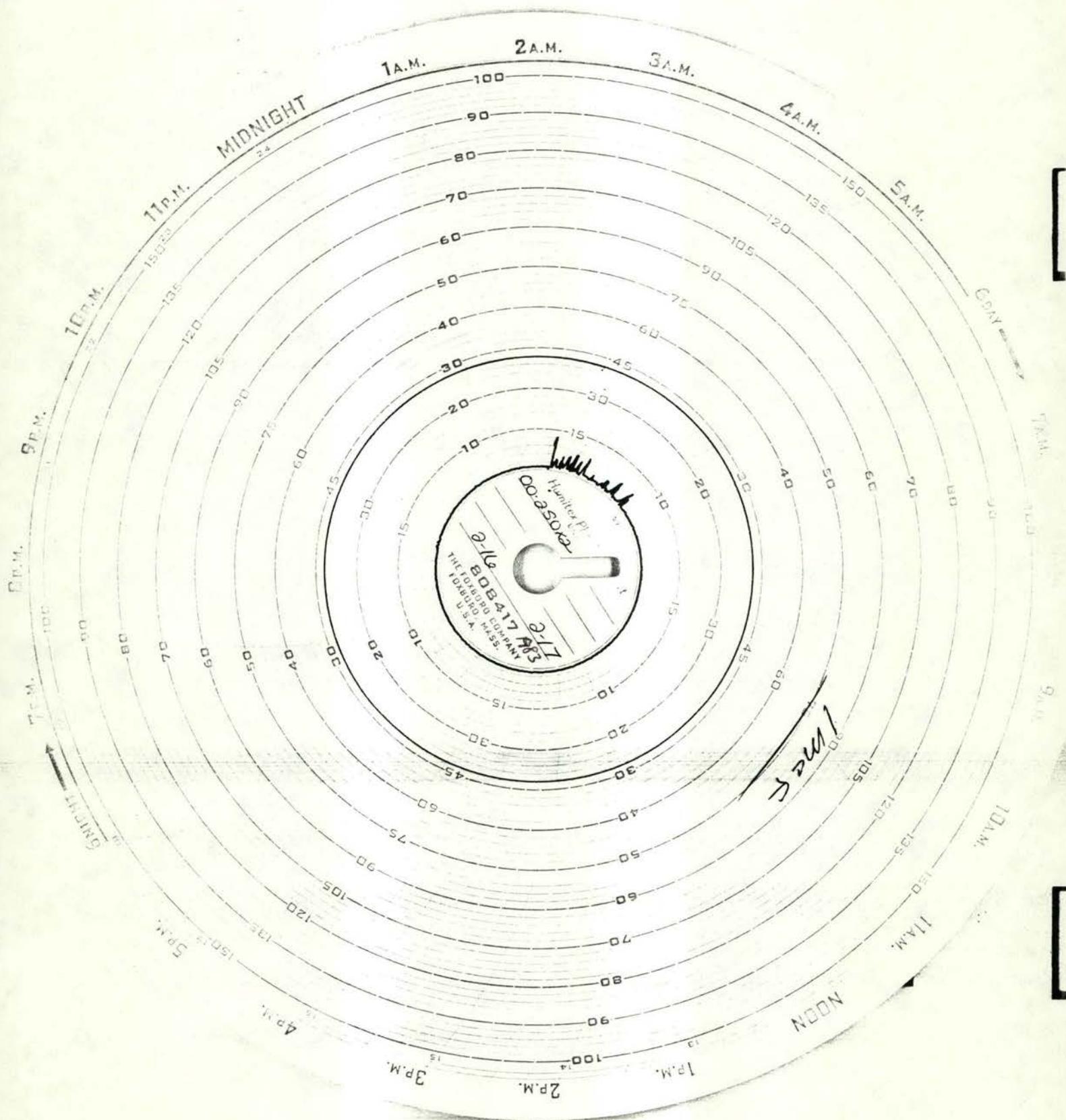
Poch-Molson
50.250x2

2-15 83.
2-16 office
2-250



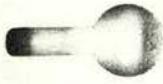
RE

33255

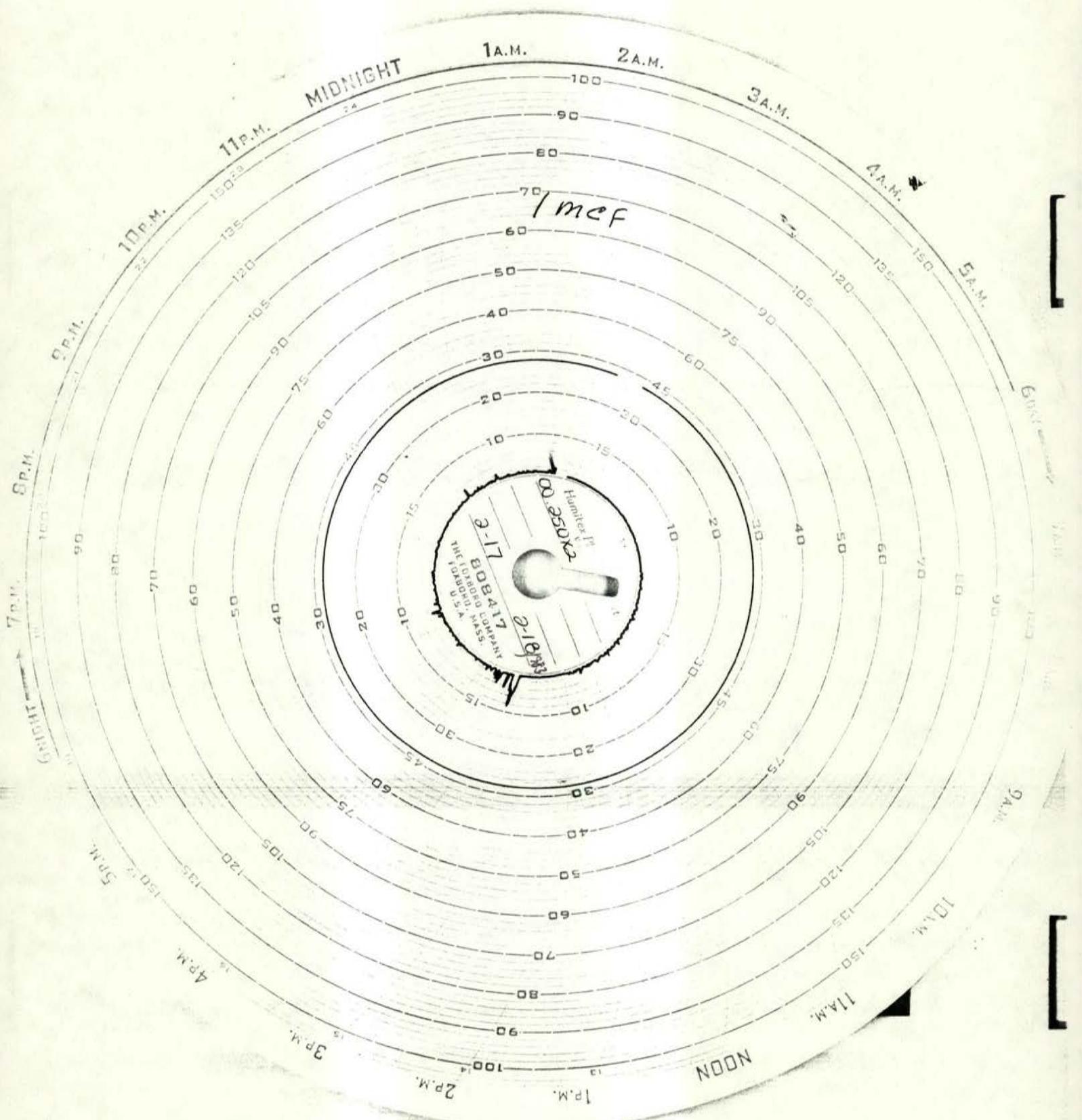


Tosch-Molson
Co. 250x2
2.16 2.17

2.18
after



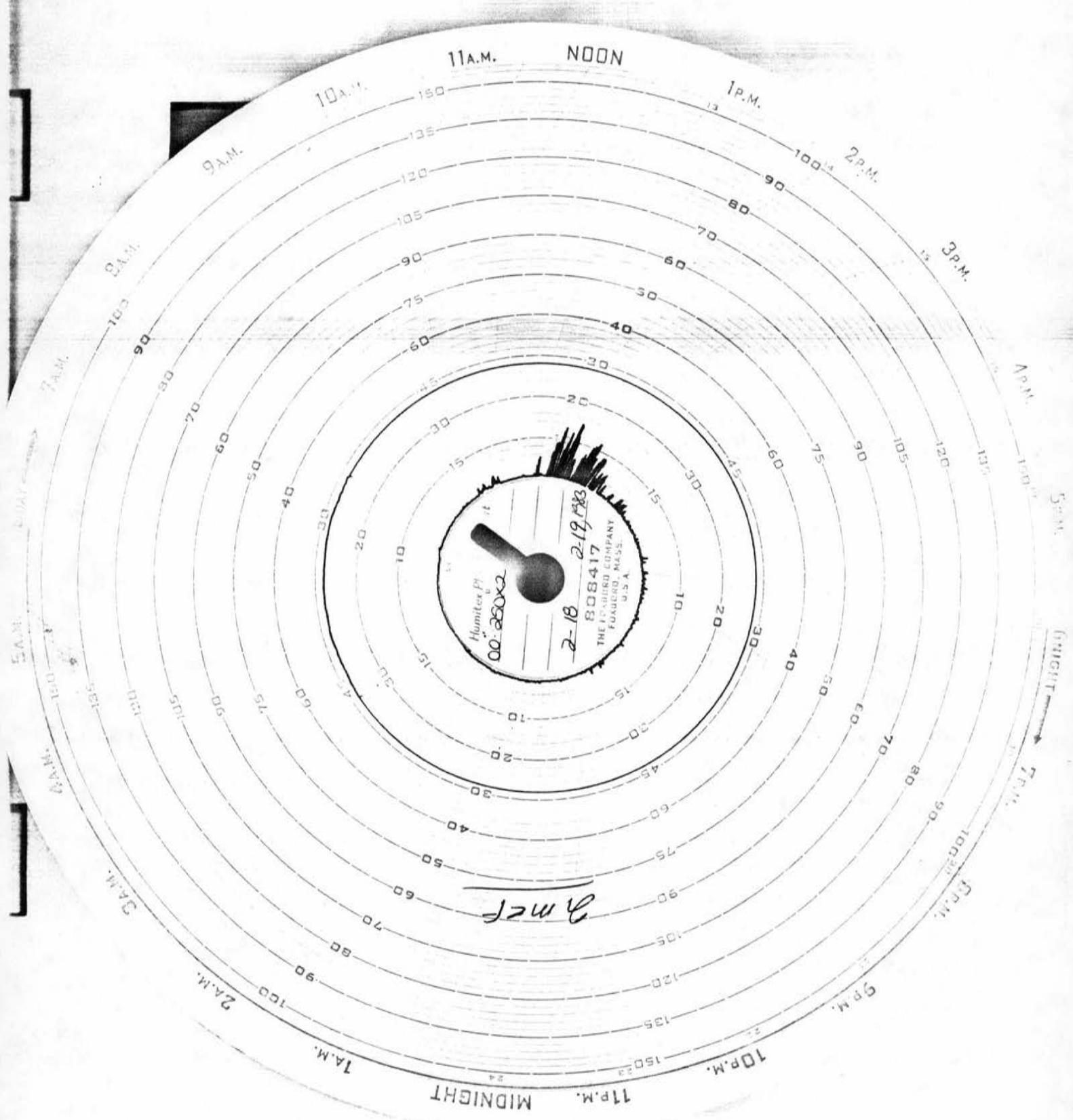
33255



Porsch - Molson
00.250x2

2-17 83
2-18 ,250 orifice

33255



2-18
2-19
250

rosch-molson
00.250x2
2-18 83
2-19 83
250 orifice



MICHIGAN OIL COMPANY
SUBSIDIARY OF SPARTON CORPORATION
PRODUCERS OF OIL AND GAS
P. O. BOX 1328 JACKSON, MICHIGAN 49204

September 3, 1981

Mr. Thomas Godbold
Department of Natural Resources
Geological Survey Division
Production and Proration Section
P. O. Box 30028
Lansing, Michigan 48909

Re: Tosch-Molson #1-17,
DNR Permit No. 33255
Presque Isle Co., Michigan

Dear Mr. Godbold:

In response to your recent telephone call regarding subject well, enclosed please find the following data:

1. Completion Report prepared by our Production Superintendent, Jack Hogle;
2. Copy of Log of Oil, Gas, Disposal or Storage Well, previously filed with the Department;
3. Copy of Crude Oil Analysis conducted on February 13, 1980 by Total Petroleum, Inc.;
4. Copy of Bottom Hole Pressure Survey dated June 11, 1980 by Dar-Way, Inc.;
5. Daily Production Report covering the 30-day test period;
6. Three Gas-Oil Ratio Tests dated October 25, 26, and 27, 1980.

Please accept my apologies for the lateness of submitting this information to you. I was under the impression that most of this data had been prepared and forwarded to the Department by another staff employee, since I was never

RECEIVED
GEOLOGICAL SURVEY DIV.

SEP 8 1981

AM PM
 8 9 10 11 12 1 2 3 4 5 6

A

Mr. Thomas Godbold
Department of Natural Resources
Page Two

September 3, 1981

given the 30 day production test forms to complete and return to the Department. Yesterday, while checking one of the Tosch files for information to send to you, I discovered the packet that had been sent to our office by Mr. Pollock. Since the 30 day test was not commenced until the latter part of September, I'm certain the forms were placed in the file for safe keeping until the test had been run, following which all of the data would be submitted to the Department. Consequently, the forms were overlooked.

With regard to the 30 day production test of the well, considerable difficulty was experienced during this test period (as evidenced on the report) and, with each day of testing, the problems worsened. It was finally decided to end the test and the well was shut in at that time, pending further work on the well.

If, after reviewing this data, you find that additional information is required, please let me know and I will send it to you promptly.

Very truly yours,

MICHIGAN OIL COMPANY

Pat Schaeffer
(Mrs.) Pat Schaeffer
Production Records

/ps

Enclosures

33255
KB 867
Comp 2 20

DAR-WAY, INC.

BOX NO. 52

KALKASKA, MICHIGAN 49646

33255

PRESSURE SURVEY

Company Northern Michigan Exploration Co.

County Presque Isle

Field Belknap 17-34N-SE

State Michigan

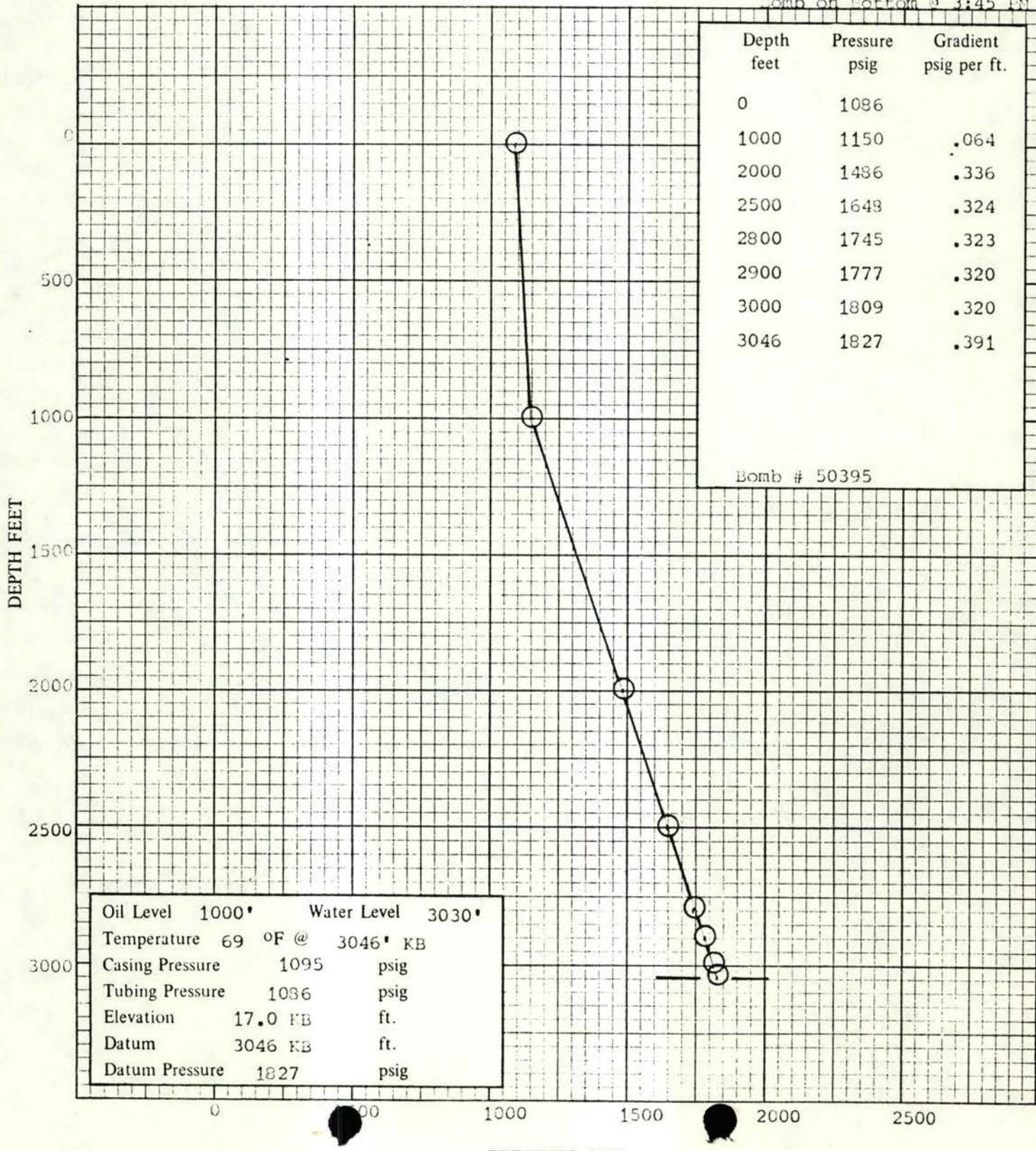
Lease and Well Name Tosch - Molson #1-17

Formation

Type of Test Static BHP

Date Tested 11/1/82

Bomb on Bottom @ 3:45 PM



Oil Level	1000'	Water Level	3030'
Temperature	69 °F @	3046' KB	
Casing Pressure	1095	psig	
Tubing Pressure	1086	psig	
Elevation	17.0 KB	ft.	
Datum	3046 KB	ft.	
Datum Pressure	1827	psig	

33255

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES

GAS - OIL RATIO TEST

FIELD NAME Wildcat

Operator Michigan Oil Company		Lease & Well Name TOSCH-MOLSON #1-17	
County Presque Isle		Township Belknap	
Prod. Form. Niagaran		Completion Date February 11, 1980	

TEST DATA

(Base Press. 14.65 psig - Temp. 60° F.)

Testing Company Michigan Oil Company	Tested & Computed By (Name) Jack Hogle	
Test Date October 27, 1980	Length Test 24 Hours	Prod Method Choke
No. Flows/Day 24 Hours	Length Flow 24 Hours	Choke Size 10/64"
Length Stroke -----	Strokes per Min. -----	Pump Barrel Size 2-1/2" Tubing
Casing Press. psig Packer	Tubing Press..psig 40	Sep or H.T. Press. psig 40
Gas Temp. °F. Est. 60°F.	Gas Gravity °	H.T. Temp. °F. 130



Tank Size 400 Barrels	Method of Test <input type="checkbox"/> OWT <input type="checkbox"/> Sales Meter <input checked="" type="checkbox"/> Other	Meter Range 50#
Tank Coeff. 1.67 Bbls./Inch	Pipe Size 2"	Flange <input type="checkbox"/> Tap <input type="checkbox"/> Pipe <input type="checkbox"/>
Tank Gauges	Orifice Size 7/8"	Clock Speed 24 Hours
	Orifice Coeff.	Pitot
	Coeff. Tables Used	
	Diff. Press. Avg.	<input type="checkbox"/> Water <input type="checkbox"/> Mercury <input type="checkbox"/> psi <input type="checkbox"/> psig <input type="checkbox"/> psia
Total In. Prod. 1' = 12"	Static Press. Avg.	



Total Oil - Test, Bbls 20.04 Barrels	Gas Prod. - Test, MCF 49.5 MCF
Oil per Hr. or Flow, Bbls .835 Barrel	Gas Prod. per Hr. or Flow, MCF 2.06 MCF
Oil Prod. per Day, Bbls 20.04 Barrels	Gas Prod. per Day, MCF 49.5 MCF



Water Prod per Day, Bbls 0	G.O.R. c.f.p.b. 2470
Prev. G.O.R. c.f.p.b. 5	Date of Prev. G.O.R. October 26, 1980

(Make remarks and calculations on reverse side)

R 7103
Rev. 12/65

GENERAL INSTRUCTIONS

The following list of rules represent the minimum requirements for conducting and filing of gas-oil ratio tests with this agency. Failure to adhere to these requirements can result in rejection of the test.

- (1) Provide all pertinent information called for; e.g., gas gravity, flow method, meter range, oil gauges, chart readings, etc.
- (2) Test chart, or reproduction, must accompany test data. (Includes sales meter charts.)
- (3) Charts must be legible with a minimum differential extension of 5% of instrument range. Exceptions only when test conditions require use of minimum orifice.
- (4) Minimum test time will be three (3) hours, or three intermittent flows, whichever is greater, or actual flow time necessary to develop a representative chart.
- (5) Gas temperatures and gravities must not be assumed when obtainable.
- (6) Show method and principal calculations in determining gas volumes.
- (7) Gas vented to the atmosphere, or otherwise diverted, other than that incident to conduction of the test will invalidate the test.

Note: A notarized copy of this test must be filed within 15 days of the test date.
Mail to Michigan Department of Natural Resources, Geological Survey Division,
Proration Unit, Stevens T. Mason Building, Lansing, Michigan 48926.

AFFIDAVIT BY OPERATOR OR SERVICE COMPANY

I, Jack Hogle, the undersigned, a duly authorized representative of
Michigan Oil Company, responsible for and having knowledge of the test re-
ported herein do hereby certify that the said test is true and accurate to the best of my knowledge
and belief.

Test Witnessed by _____ Representing _____

Test Witnessed by _____ Representing _____

Subscribed and sworn to me this
5th day November, 1980 _____

Brenda Fries _____ By Jack Hogle _____
Notary Public Jackson County, State of Mich.
My Commission expires September 27, 1983

REMARKS AND CALCULATIONS _____

24 Hour Gas Rate = 49.5 MCF

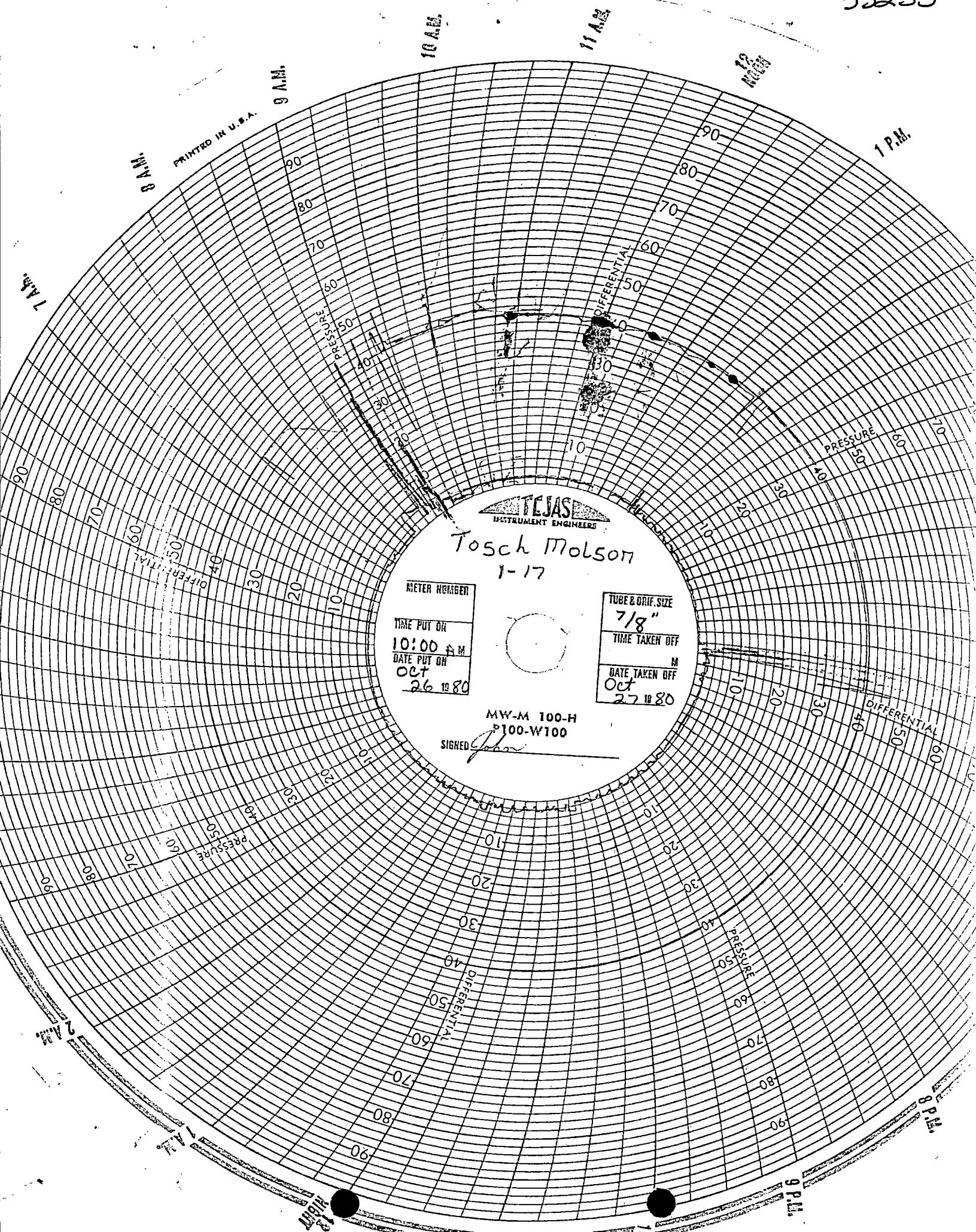
Hourly Gas Rate = 49.5 div. by 24 = 2.06 MCF

Gas Produced Per Day = 24 x 2.06 = 49.5 MCF

Oil Produced Per Day = 20.04 Barrels

GOR = 49.5 div. by 20.04 = 2470 CFPB

33255



33255

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES

GAS - OIL RATIO TEST

FIELD NAME Wildcat

Operator Michigan Oil Company		Lease & Well Name Tosch-Molson #1-17	
County Presque Isle		Township Belknap	
Prod. Form. Niagaran		Completion Date February 11, 1980	
		Permit No. 33255	

TEST DATA

(Base Press. 14.65 psig - Temp. 60° F.)

Testing Company Michigan Oil Company	Tested & Computed By (Name) Jack Hogle	
Test Date October 26, 1980	Length Test 24 Hours	Prod Method Choke
No. Flows/Day 24 Hours	Length Flow 24 Hours	Choke Size 10/64"
Length Stroke -----	Strokes per Min. -----	Pump Barrel Size 2-1/2" Tubing
Casing Press. psig Packer	Tubing Press. psig 40	Sep or H.T. Press. psig 40
Gas Temp. °F. Est. 60°F.	Gas Gravity °	H.T. Temp. °F. 130



Tank Size 400 Barrels	Method of Test <input type="checkbox"/> OWT <input type="checkbox"/> Sales Meter <input checked="" type="checkbox"/> Other	Meter Range 50#
Tank Coeff. 1.67 Bbls./Inch	Pipe Size 2"	Flange <input type="checkbox"/> Pipe <input type="checkbox"/>
Open 15' 1"	Orifice Size 7/8"	Pitot
	Orifice Coeff.	
Close 17' 6"	Coeff. Tables Used	
	Diff. Press. Avg.	<input type="checkbox"/> Water <input type="checkbox"/> Mercury <input type="checkbox"/> psi <input type="checkbox"/> psig <input type="checkbox"/> psia
Total In. Prod. 2' 5" = 29"	Static Press. Avg.	



Total Oil - Test, Bbls 48.43 Bbls.	Gas Prod. - Test, MCF 27.49 MCF
Oil per Hr. or Flow, Bbls 2.02 Bbls.	Gas Prod. per Hr. or Flow, MCF 1.15 MCF
Oil Prod. per Day, Bbls 48.43 Bbls.	Gas Prod. per Day, MCF 27.49 MCF



Water Prod per Day, Bbls 0 Bbls.	G.O.R. c.f.p.b. 568
Prev. G.O.R. c.f.p.b. 1119	Date of Prev. G.O.R. October 25, 1980

(Make remarks and calculations on reverse side)

R 7103
Rev. 12/65

GENERAL INSTRUCTIONS

The following list of rules represent the minimum requirements for conducting and filing of gas-oil ratio tests with this agency. Failure to adhere to these requirements can result in rejection of the test.

- (1) Provide all pertinent information called for; e.g., gas gravity, flow method, meter range, oil gauges, chart readings, etc.
- (2) Test chart, or reproduction, must accompany test data. (Includes sales meter charts.)
- (3) Charts must be legible with a minimum differential extension of 5% of instrument range. Exceptions only when test conditions require use of minimum orifice.
- (4) Minimum test time will be three (3) hours, or three intermittent flows, whichever is greater, or actual flow time necessary to develop a representative chart.
- (5) Gas temperatures and gravities must not be assumed when obtainable.
- (6) Show method and principal calculations in determining gas volumes.
- (7) Gas vented to the atmosphere, or otherwise diverted, other than that incident to conduction of the test will invalidate the test.

Note: A notarized copy of this test must be filed within 15 days of the test date.
Mail to Michigan Department of Natural Resources, Geological Survey Division,
Proration Unit, Stevens T. Mason Building, Lansing, Michigan 48926.

AFFIDAVIT BY OPERATOR OR SERVICE COMPANY

I, Jack Hogle, the undersigned, a duly authorized representative of
Michigan Oil Company, responsible for and having knowledge of the test re-
ported herein do hereby certify that the said test is true and accurate to the best of my knowledge
and belief.

Test Witnessed by _____ Representing _____

Test Witnessed by _____ Representing _____

Subscribed and sworn to me this
5th day of November, 19 80

Brenda Fuerst By Jack Hogle
Notary Public Jackson County, State of Mich.
My Commission expires September 27, 1983

REMARKS AND CALCULATIONS _____

24 Hour Gas Rate = 27.49 MCF

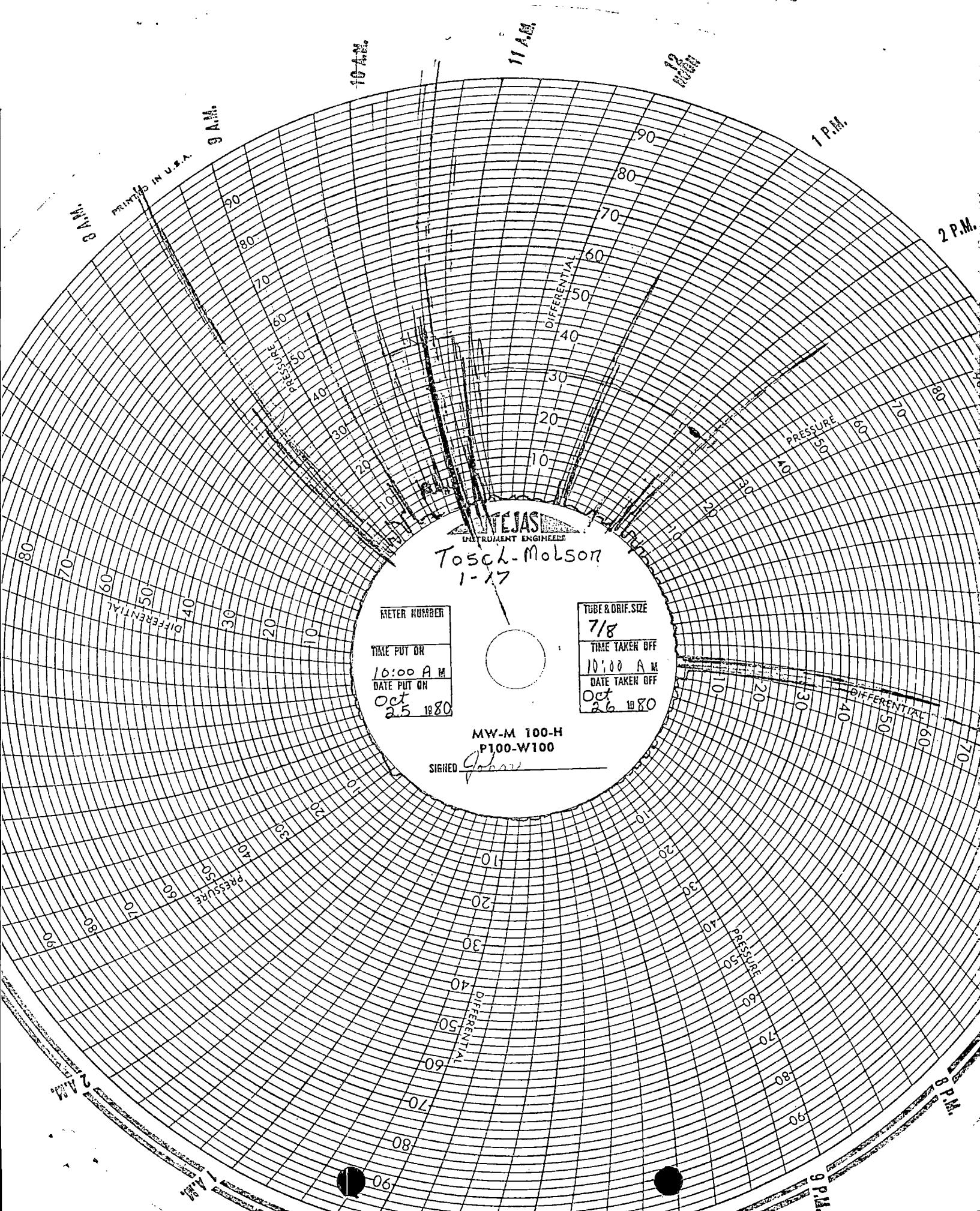
Hourly Gas Rate = 27.49 div. by 24 = 1.15 MCF

Gas Produced Per Day = 24 x 1.15 = 27.49 MCF

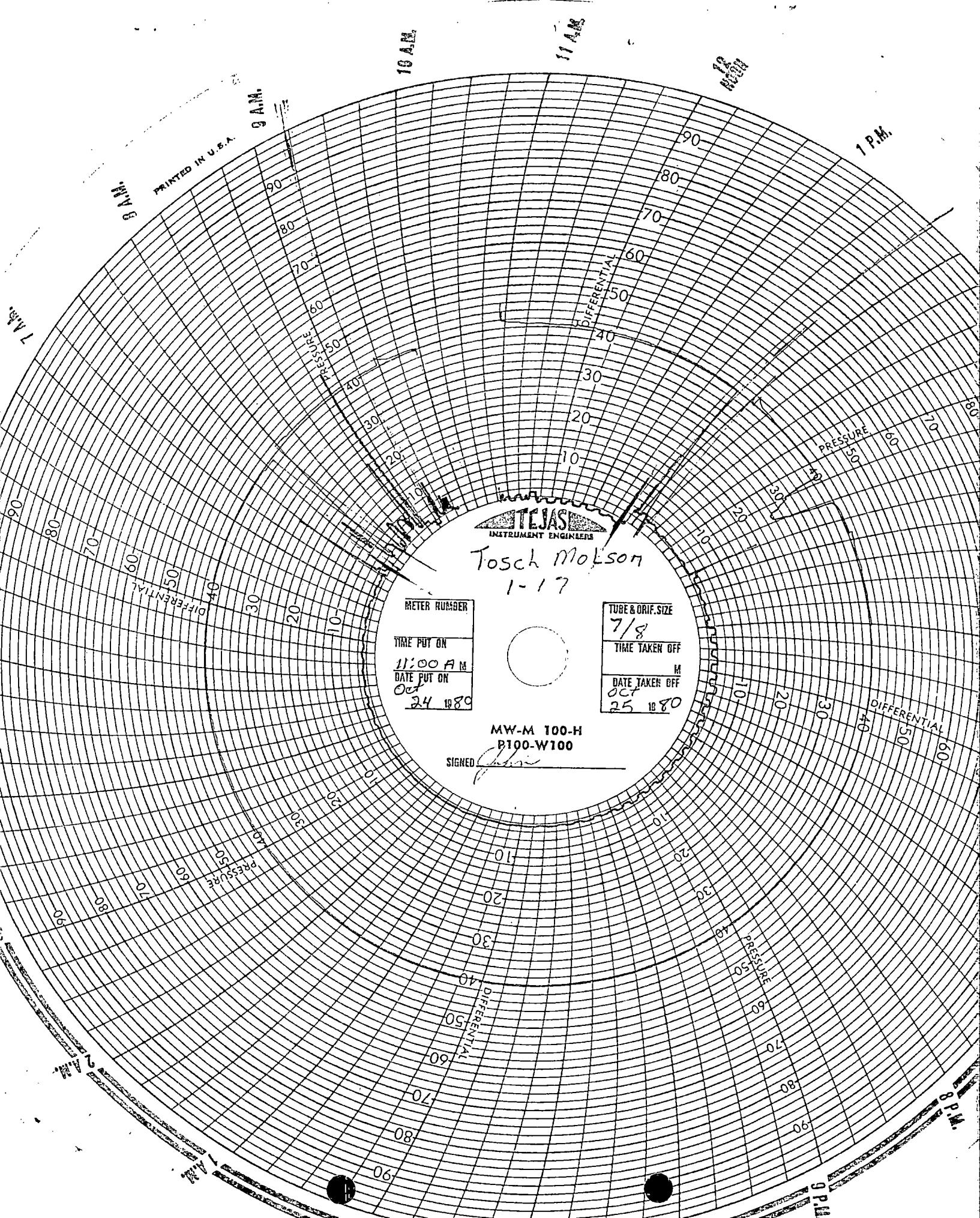
Oil Produced Per Day = 48.43 Barrels

GOR = 27.49 div. by 48.43 = 568 CFPD

33255



33255



33255

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES

GAS - OIL RATIO TEST

FIELD NAME Wildcat

Operator <u>Michigan Oil Company</u>		Lease & Well Name <u>Tosch-Molson #1-17</u>	
County <u>Presque Isle</u>		Township <u>Belknap</u>	
Prod. Form. <u>Niagaran</u>		Completion Date <u>February 11, 1980</u>	Location NE SW SW-17-34N-5E Permit No. <u>33255</u>

TEST DATA

(Base Press. 14.65 psig - Temp. 60° F.)

Testing Company <u>Michigan Oil Company</u>	Tested & Computed By (Name) <u>Jack Hogle</u>	
Test Date <u>October 25, 1980</u>	Length Test 24 Hours	Prod Method Choke
No. Flows/Day <u>24 Hours</u>	Length Flow 24 Hours	Choke Size 10/64"
Length Stroke -----	Strokes per Min. -----	Pump Barrel Size 2-1/2" Tubing
Casing Press. psig <u>Packer</u>	Tubing Press. psig 40	Sep or H.T. Press. psig 40
Gas Temp. °F. <u>Est. 60°F.</u>	Gas Gravity °	H.T. Temp. °F. 130



Tank Size 400 Barrels	Method of Test <input type="checkbox"/> OWT <input type="checkbox"/> Sales Meter <input checked="" type="checkbox"/> Other		Meter Range 50 #	
Tank Coeff. 1.67 Bbls./Inch	Pipe Size 2" Tap <input type="checkbox"/> Flange <input type="checkbox"/> Pipe <input type="checkbox"/>		Clock Speed 24 Hours	
Tank Gauges	Open 12' 8"	Orifice Size 7/8"		
	Orifice Coeff.			
	Close 15' 1"	Coeff. Tables Used		
	Diff. Press. Avg. <input type="checkbox"/> Water <input type="checkbox"/> Mercury <input type="checkbox"/> psi <input type="checkbox"/> psig <input type="checkbox"/> psia			
Total In. Prod. 2' 5" = 29"	Static Press. Avg.			



Total Oil - Test, Bbls 48.43 Bbls.	Gas Prod. - Test, MCF 54.2 MCF
Oil per Hr. or Flow, Bbls 2.02	Gas Prod. per Hr. or Flow, MCF 2.26 MCF
Oil Prod. per Day, Bbls 48.43	Gas Prod. per Day, MCF 54.2 MCF



Water Prod per Day, Bbls 0	G.O.R. c.f.p.b. 1119
Prev. G.O.R. c.f.p.b.	Date of Prev. G.O.R.

(Make remarks and calculations on reverse side)

R 7103
Rev. 12/65

GENERAL INSTRUCTIONS

The following list of rules represent the minimum requirements for conducting and filing of gas-oil ratio tests with this agency. Failure to adhere to these requirements can result in rejection of the test.

- (1) Provide all pertinent information called for; e.g., gas gravity, flow method, meter range, oil gauges, chart readings, etc.
- (2) Test chart, or reproduction, must accompany test data. (Includes sales meter charts.)
- (3) Charts must be legible with a minimum differential extension of 5% of instrument range. Exceptions only when test conditions require use of minimum orifice.
- (4) Minimum test time will be three (3) hours, or three intermittent flows, whichever is greater, or actual flow time necessary to develop a representative chart.
- (5) Gas temperatures and gravities must not be assumed when obtainable.
- (6) Show method and principal calculations in determining gas volumes.
- (7) Gas vented to the atmosphere, or otherwise diverted, other than that incident to conduction of the test will invalidate the test.

Note: A notarized copy of this test must be filed within 15 days of the test date.
Mail to Michigan Department of Natural Resources, Geological Survey Division,
Proration Unit, Stevens T. Mason Building, Lansing, Michigan 48926.

AFFIDAVIT BY OPERATOR OR SERVICE COMPANY

I, Jack Hogle, the undersigned, a duly authorized representative of
Michigan Oil Company, responsible for and having knowledge of the test re-
ported herein do hereby certify that the said test is true and accurate to the best of my knowledge
and belief.

Test Witnessed by _____ Representing _____

Test Witnessed by _____ Representing _____

Subscribed and sworn to me this
5th day November, 1980

Brenda Foss By Jack Hogle
Notary Public Jackson County, State of Mich.
My Commission expires September 27, 1983

REMARKS AND CALCULATIONS _____

24 Hour Gas Rate = 54.2 MCF

Hour Gas Rate = 54.2 div. by 24 = 2.26 MCF

Gas Produced Per Day = 24 x 2.26 = 54.2 MCF

Oil Produced Per Day = 48.43 Barrels

GOR = 54.2 div. by 48.43 = 1119 CFPB

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

33255

DAILY PRODUCTION REPORT

FIELD NAME Belknap 17

Michigan Oil Company and
Company Northern Michigan Exploration Co. Permit Number DNR #33255

Discovery Well Tosch-Molson #1-17

Discovery Date November 13, 1979

County Presque Isle

Twp. 34 North Range 5 East

Township Name Belknap

Location NE SW SW, Section 17

Producing Formation Brown Niagaran

Perforations See attached typed Log
for perforated intervals

Treatments See attached typed Log
for acid treatments

PRODUCTION DATA

Date	Choke Size	Hours Prod.	Oil Bbls.	Water Bbls.	Gas Mcf.	FTP psig	FCP 'psig	GOR cfpb	Remarks
1980									
9-23	13/64	24	263	-	0	500			
-24	13/64	24	203	-	0	580			
	15/64								
-25	14/64	24	122	-	0	590			
	16/64								
-26	17/64	24	7	-	390	440			Hauled 55 bbls. brine off treater.
	18-22-								
-27	20/64	24	83	-	262	180-220			
	15-10								
-28	20/64	24	75	-	181	40			
	30-32-30-								
-29	25/64	24	58	-	141	40			By-passed total of 1 hr. 25 min.-build TP
	25-								SI 1 hr. to bring
-30	13/64	23	85	-	132	40			TP up to 220 - TP wouldn't build
10- 1	13/64	24	0	-	110	50			
- 2	13/64	24	28	-	87	45			By-passed 1-1/4 hrs.
- 3	--	--	0	-	8	0			By-passed 1 hr. a.m.; S.I. 12:00 Midnight
10-4 thru 10-22	SHUT IN								
Totals			924	-	1311				

33255

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

PAGE 2

DAILY PRODUCTION REPORT

FIELD NAME Belknap 17

Company _____

Permit Number DNR #33255

Discovery Well Tosch-Molson #1-17

Discovery Date _____

County _____

Twp. _____ Range _____

Township Name _____

Location _____

Producing Formation _____

Perforations _____

Treatments _____

PRODUCTION DATA

Date	Choke Size	Hours Prod.	Daily Prod.	Oil Bbls.	Water Bbls.	Gas Mcf.	FTP psig	FCP psig	GOR cfpb	Remarks
10-23	10/32	24	197	-	0	220				
10-24	10/32	24	47	-	54	220				
10-25	12/32	24	48	-	27	160				Calibrated gas meter
10-26	12/32	24	48	-	50	220				TP 100 @ 2 p.m. and 200 @ 3 p.m.
10-27	10/32	24	20	-	25	130				Well not flowing - by-passed 1/4 hr.
10-28	10/32	24	30	-	30	120				
10-29										SI
10-30										SI
11- 1	12/32	24	18	-	40	210				
11- 2	12/32	24	10	-	36	200				
11- 3	12/32	24	33	-	48	175				
11- 4			1	-						SHUT IN-ENDING TEST
Totals			452	-	310					

DAR-WAY, INC.BOX NO. 52
KALKASKA, MICHIGAN 49646

33255

PRESSURE SURVEY

Company Michigan Oil Company

County Presque Isle

Field

State Michigan

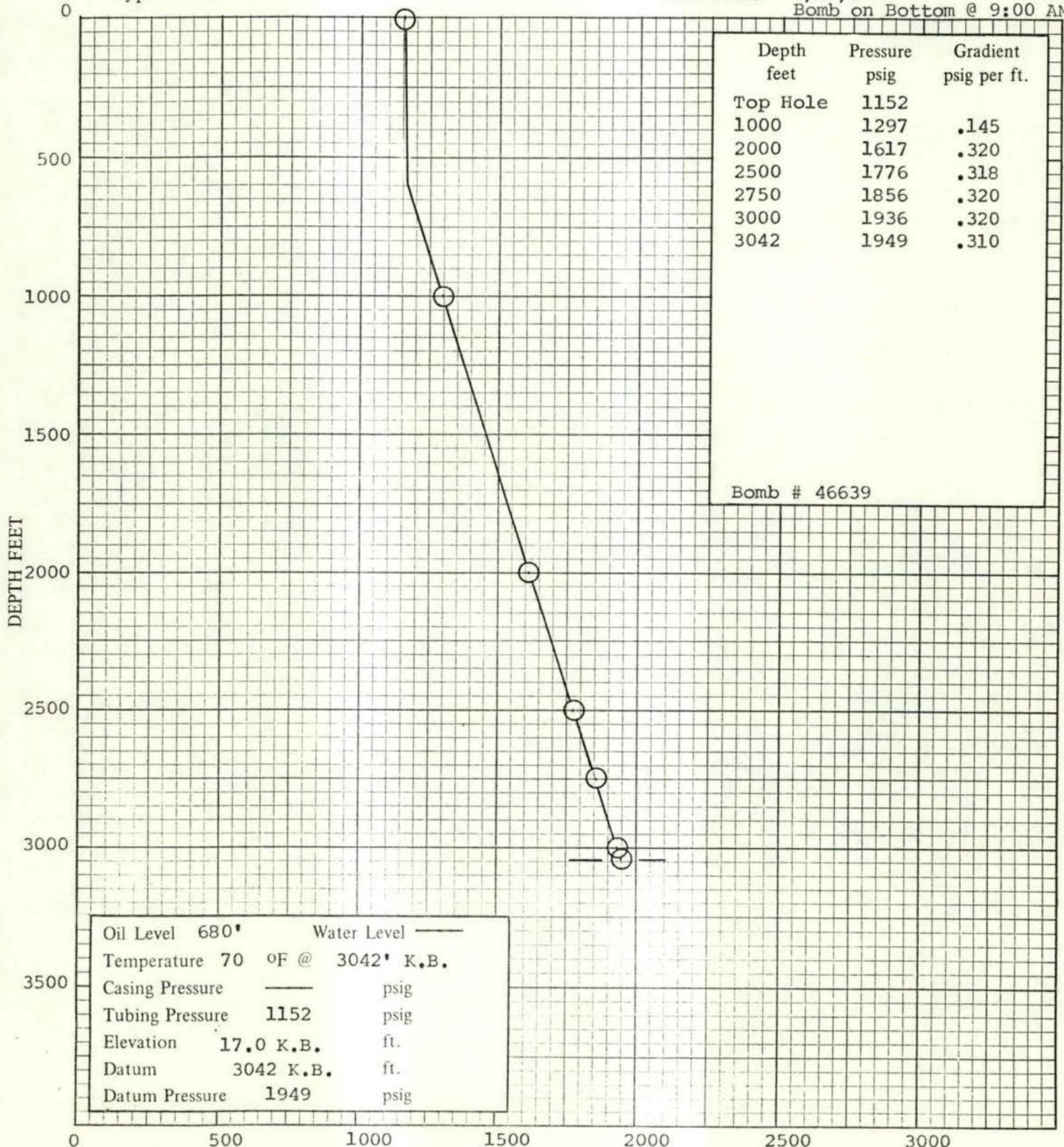
Lease and Well Name Tosch-Molson #1-17

Formation Niagaran

Type of Test B.H.P.

Date Tested 6/11/80

Bomb on Bottom @ 9:00 AM



COMPLETION REPORT

MICHIGAN OIL - NORTHERN MICHIGAN EXPLORATION
TOSCH-MOLSON NO. 1-17
NE SW SW, Section 17, T34N, R5E,
Belknap Twp., Presque Isle Co., Michigan

Field: Wildcat
891' FSL; 1274' FWL of SW/4

8-5/8" 24# K-55 Csg. set @ 1665'
5-1/2" 15# K-55 Csg. set @ 3209'

12/20/79 Had deadmen built and set with backhoe;
plowed snow off location and sanded hill for rig to
move in.

Moved in workover rig and set up; hauled in 210 bbl.
tank, 3200' of 2-7/8" tubing and 100 bbls. 11# salt
water.

12/21/79 Installed Upper Tree (sour trim) and ran PDC and Bond
Log by Schlumberger; ran tubing to 3156' and came out
of hole; S.D.

12/26/79 Ran Baker R-3 Production Packer w/201' of tailpipe;
total tubing ran 108 jts., set @ 3163'; loaded hole
w/coreband water by Dowell and spotted 250 gals. 28%
perforating acid.

Pulled 7 jts. tubing and set @ 2958'; pressured up to
500# on packer; held okay; pressured up to 2000# on
wellhead; pressure held.

Perforated by Schlumberger from 3156' to 3163' (14 holes
w/2 shots/ft.); hooked up Dowell to squeeze away
perforating acid; Max. psi 2100; no injection rate;
2-1/2 hrs. to pump 5 bbls. away; SIP 1500#; S.D.

12/27/79 SITP 1300 #

Well blew down in 1 min.; flowed 4 bbls. back in 45
mins.; started swabbing; swabbed and flowed back
22 bbls; hole dry; show of gas, no oil.
Total fluid to recover 24.61 bbls.; S.D.

12/28/79 SITP 150 #

Swabbed total of 6 bbls., hole dry; fluid running
75% oil; total back 28 bbls.

12/28/79 (Cont'd.)

33255

Acidized by Dowell w/2000 gals. 28% acid;

Max. psi 1700 Avg. psi 1700
Max. Inj. 1 BPM Avg. Inj. .5 BPM
ISIP 1600 psi 15 min. later 1500 psi
30 min. later 1500 psi
Time: 1 hr. 40 min. for the job.

Opened well up and flowed for 1 hr; made 42 bbls. fluid and died; total fluid to get back 67 bbls.; show of gas, no oil; dirty looking water coming back; S.D.-dark).

12/29/79 SITP 1100 psi; flowed 15 min. and died;
Swabbed and flowed back 40 bbls. fluid; last 5 hours swabbed 11 bbls. fluid; running 75% oil and 25% dirty water; total back from job 82 bbls.; hole dry; S.D.

1/2/80 SITP 1100 psi (shut in for 92 hrs.)

Opened well up and flowed 16 bbls. oil in 26 min. and died; flowed and swabbed total 24 bbls. (last 8 bbls. running 50% water); hole dry; total back 108 bbls.

Installed BOP and pulled tubing and packer; SI BOP and S.D.

1/3/80 SIWHP 275 psi (blew down, no fluid)

Installed HOWCO E.Z. Squeeze Tool, ran to 3130' and set tool; squeezed w/50 sx. Comm. w/HA-5 by HOWCO; didn't squeeze; took 50 sx. @ 1400 psi and over flushed w/1 bbl. water; S.D.

1/4/80 Ran 1 jt. back in and set stinger in tool and pressured up to 2000 psi; broke back to 1800 psi; pumped in @ 1800 psi @ 2 BPM

Squeezed w/50 sx. w/Hal-9 Comm.; squeezed 40 sx. in formation @ 2800 psi; pulled stinger out and reversed excess cement; pulled tubing and removed stinger; S.D.

1/7/80 Ran 2-7/8" tubing w/Baker Packer to 3122' to load hole w/coreban water and spotted 250 gals. 28% perf. acid by Dowell; pulled 5 jts. out and set tubing @ 2970'; buttoned up wellhead; S.D.

(Schlumberger snowed in, couldn't make it); S.D.

1/8/80 Perforated by Schlumberger @ 3070' to 3111' (40 ft. w/1 shot/ft.); squeezed away 3 bbls. perf. acid @ 1900 psi; time: 1-1/3 hrs. to complete job.; 30 min. later 1300 psi; swabbed and flowed 41 bbls. fluid; SG&O. Total to recover 20.5 bbls.

1/9/80 SITP 900#

Swabbed and flowed back 31.5 bbls. (hole dry);
total fluid back 72.5 bbls. (50% oil);
acidized by Dowell with 2,000 gals. 28% ;

Max. psi 2000# Average psi 1800#
Max. inj. 1 BPM Average inj. 1/8 BPM
ISIP 1500# 30 min. later 1400#

Total fluid to recover 67 bbls.; time to complete job: 1 hr. 38 min.; opened well up to 24/64 choke and flowed 3 hrs.; S.D.; flowed back 125 bbls. fluid on 24/64 choke; FTP 510#; drew off 54 bbls. water.

1/10/80 SITP 980#

Flowed well for 9 hrs. and made 147.5 bbls.;
1st hr. FTP 510#; choke 20/64; 26 bbls.
9th hr. FTP 100#; choke: open; 8 bbls., cutting gas last 3 hrs.; hauled 300 bbls. out to be treated.

1/11/80 SITP 310#

Flowed for 2 hrs. and made 44 bbls.; FTP 60; choke: open;
Acidized by Dowell with 7500 gals. 28%;

Max. psi 400# Average psi 100#
Max. inj. 3 BPM Average inj. 3 BPM
ISIP 400#; 1 min. later 100#; 30 min. later Vac.

Fluid level down hole 400'; shut in for 1 hr. and began swabbing; total to recover 199 bbls.; flowed and swabbed 116 bbls., running 60% oil;

1/12/80 SITP 660#

Flowed back 177 bbls. in 9 hrs.
FTP 100#; choke: 30/64; last hr. made 6 bbls. (running 20% salt water for 9 hrs.)
1st. hr. FTP 320; pressure dropping in the 9 hrs. to 100#; hauled 300 bbls oil to be treated.

1/14/80 SITP 400#

Flowed and swabbed 112 bbls. in 8 hrs.; last 3 hrs. swabbed 3 pulls per hr.; hauled 100 bbls. oil to treater.

1/15/80 SITP 290# (S.I. 16 hrs.)

Killed well to run Tracer Log (Schlumberger); S.D.

1/21/80 SITP 380#

Flowed back 144 bbls. fluid, running 30% water (3 hrs.); total recovered 652 bbls.; hauled 200 bbls. to be treated; killed well w/50 bbls. salt water, installed BOP and pulled 51 stands tubing; S.D.

- 1/22/80 SITP 80#; (blew down)
Killed well w/50 bbls. salt water (Dowell); Rigged up Schlumberger and ran a 5-1/2" Baker Bridge Plug; set @ 3065'; ran 3059' of 2-7/8" tubing w/Baker Packer; circulated hole w/clean salt water and spotted 250 gals. 28% perf. acid (Dowell); pressured up on bridge plug; press. held; pulled 5 jts. tubing and set @ 2899'; took off BOP and installed wellhead; rigged up Schlumberger to perforate; first gun stopped @ 1700'; came out of hole, paraffin in tubing; tore SJ down and S.I.
- 1/23/80 Removed wellhead, pulled tubing and laid on skid to steam; steamed tubing and ran back in hole; set tubing @ 2898' and buttoned up wellhead.; rigged up SJ to perforate and ran in hole with first gun; perforated from 3047' 3050', 3053', 3056', and 3059'; second gun 3032', 3034', 3036', 3038', and 3040'; third gun 3017', 3019', 3021', 3026', and 3027'; fourth gun 3009', 3004', 3003'; no blow on vac.; total 18' - 18 holes; hooked up Dowell and pumped away 3 bbls. perf. acid on a vac.; S.D.
- 1/24/80 SITP 100#
Swabbed and flowed 168 bbls. in 8 hrs.; flowed last 4 hrs. making 20 bbls. per hr.; FTP 100#; choke: open; 20% water last hr.; S.D.
- 1/25/80 SITP 520#
Flowed and swabbed 112 bbls. fluid running 20% water; last 3 hrs. swabbing, made 6 bbls. per hr. w/3 pulls; running 2% water; TP 0.
- 1/28/80 SITP 570#
Swabbed and flowed 100 bbls., making 8% water; last 4 hrs. swabbing (3 pulls each) made 31 bbls. fluid.
- 1/29/80 SITP 300#
Blew well down, flowed 1 hr., made 11 bbls. and died; loaded hole w/50 bbls. salt water, installed BOP and pulled tubing; installed E.Z.S.V. Squeeze Tool by HOWCO; ran back in hole w/tubing and set tool @ 2971.5; S.D.
- 1/30/80 Squeezed w/200 sacks Hol-3 by HOWCO w/2% c.c.; injection rate 6 BPM @ 600#; squeezed 185 sacks in formation @ 2500#; time: 1-3/4 hrs.; reversed out excess and came out of hole with tubing and stinger; S.D.
- 1/31/80 Rigged up power swivel to drill out Bridge plug and squeeze tool; started drilling @ 2951' to 3059'; good cement all the way; S.D.

- 2/1/80 Drilled out Bridge plug and drilled to 3112'; good cement all the way; pulled tubing and bit; S.D. bit dropped 3' below bridge plug;
- 2/4/80 Ran 2-7/8" tubing back in hole with Baker packer to 3088'; ready to circulate hole with clean salt water and spot 250 gal. 28% perf. acid; removed BOP and buttoned up wellhead; S.D.
- 2/5/80 Hooked up Dowell and circulated hole w/clean salt water; spotted 250 gals. 28% perf. acid @ 3088'; pulled 6 jts. tubing back up to 2890' and set; ready for SJ @ 11:00 a.m.; S.J. broke down; called for truck; new truck on location @ 4:00 p.m.
- Rigged up SJ and ran in hole; perforated from 3073', 3076', 3079', 3082', 3085', 3088', 3065', 3067', 3069', and 3047', 3050', 3053', 3056', 3059', 3003', and 3004'; second run: 3073', 3076', and 3079'; came out of hole, rest of gun wouldn't fire; ran in two more times after gun was repaired but gun wouldn't fire; S.D. 11:00 p.m.
- 2/6/80 Rigged up SJ and ran in hole, perforated from 3026', 3032', 3034', 3036', 3038' and 3040'; came out and ran second gun; perforated from 3017', 3019', and 3021', and 3009'; rigged down SJ; total of 29 feet @ 1 shot/ft. (29 holes).
- Squeezed away 5 bbls. perf. acid; Max. psi 1550#; no rate; no average; squeeze took 1 hr. 35 min.; 15 min. later 900#; started swabbing; first two hrs. made 25 bbls. fluid; SO&G; third hr. made 6 bbls. oil, gas and acid water; total returned 31 bbls; total to recover 26 bbls.; S.D.
- 2/7/80 SITP 100#
- Swabbed total of 13 bbls., running 50% oil, 50% acid water; rigged up HOWCO w/7000 gal. 28% acid;
- | | |
|--------------------|--------------------|
| Max. psi 1400# | Average psi 1300# |
| Max. inj. 1.25 BPM | Average inj. 1 BPM |
| ISIP 1400# | 45 min. later 660# |
- Used 40 perf. balls;
- Flowed well for 3 hrs. and made 195.5 bbls. fluid; FTP 630#, 26/64 choke; last hr. running 90% oil; S.D.; had 186 bbls. fluid to recover.
- 2/8/80 SITP 820#
- Flowed 283 bbls. fluid, running 95% oil; FTP 600#, 20/64 choke; last hr. on 20/64 choke, 26 bbls./hr., FTP 600# (flowing time 10 hrs.); hauled 220 bbls. oil and acid water to be treated.

33255

2/11/80 SITP 1160#

Flowed well 6 hrs. and made 153 bbls., 99% oil;
FTP 330#, 25/64 choke; tubing paraffined off;
had to S.I.

2/12/80 SITP 1020#

First two hrs. hooked paraffin and made 45 bbls.
oil; FTP 500#; 3rd hr. 25/64 choke, FTP 620#,
made 32 bbls.; 4th hr. 25/64 choke, FTP 660#,
made 32 bbls., a total of 109 bbls., 100% oil;
hooked paraffin again and shut well in; released
rig.

2/25/80 Oil Gravity 41.9, Sulfur 0.59

MEMORANDUM

JACK Hogle

33255

DATE Feb. 20, 1980

TO C. E. Fiske
Orrin Hoxie
Rod DeGraw, Wyanot Pipeline
Ron Scott

FROM Bill Spitzley

CRUDE OIL ANALYSIS (Sample delivered to Lab 2/13/80)

Tosch-Molson, Michigan Oil Company

API Gravity	41.9
Pour Point, °F	-5
Salts, lbs/M Bbl	200+
Sulfur, wt. %	0.592
BS & W, %:	
Water	0.5
BS	Trace

cc: W. J. Benedek
Cy Fulton

33255

Phone 616/256-9053

DAR-WAY, INC.BOX NO. 52
KALKASKA, MICHIGAN 49646**PRESSURE SURVEY**

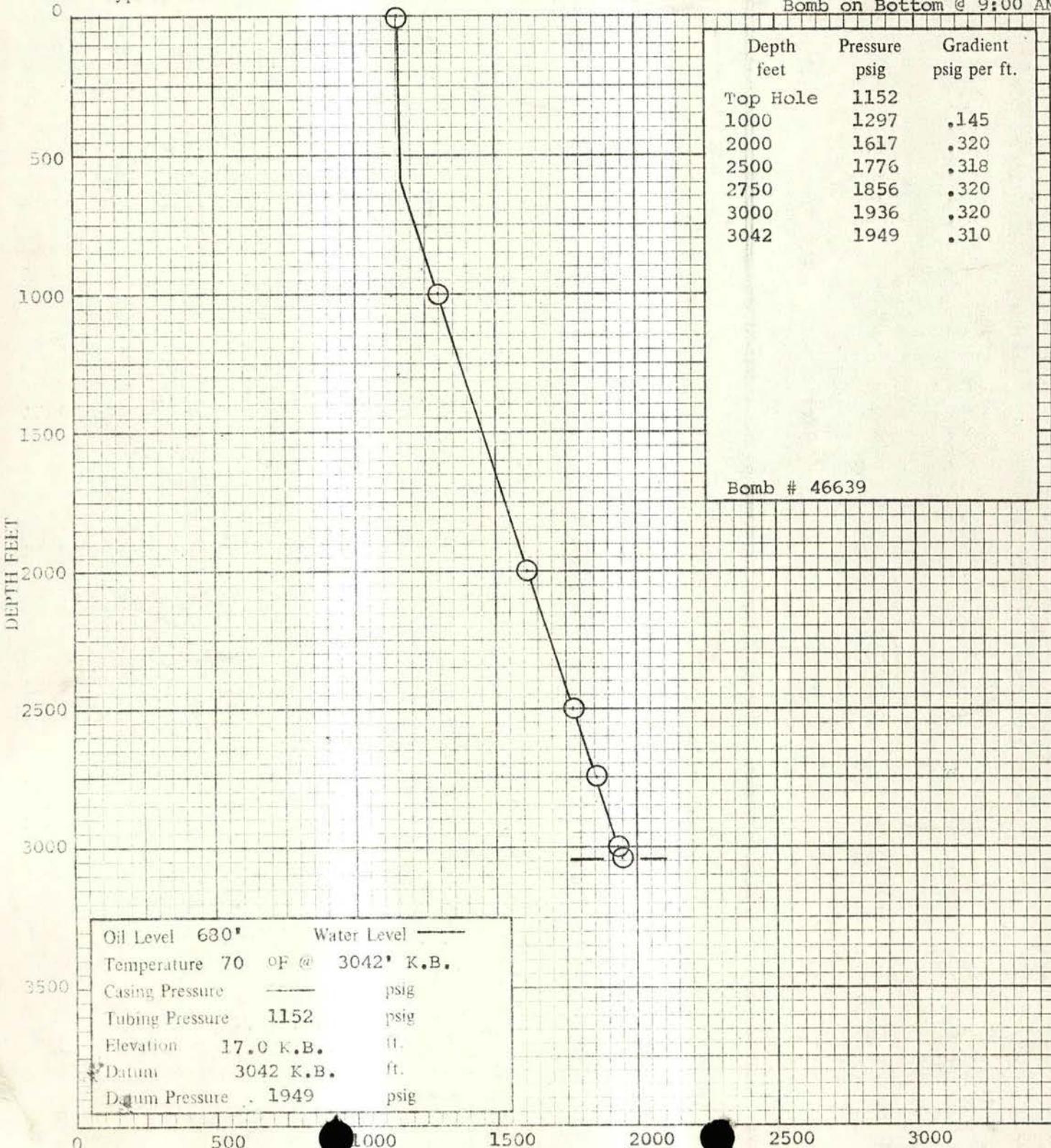
BELKNAP 17-34N-SE

33255
STRAIGHT

KB867

Company Michigan Oil Company
FieldLease and Well Name Tosch-Molson #1-17
Type of Test B.H.P.County Presque Isle
State MichiganFormation Niagaran
Date Tested 6/11/80

Bomb on Bottom @ 9:00 AM



STATE OF MICHIGAN

33255

NATURAL RESOURCES COMMISSION

JACOB A. HOEFER
CARL T. JOHNSON
E.M. LAITALA
HILARY F. SNELL
HARRY H. WHITELEY
JOAN L. WOLFE
CHARLES G. YOUNGLOVE



WILLIAM G. MILLIKEN, Governor

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909

DEPARTMENT OF NATURAL RESOURCES

HOWARD A. TANNER, Director

May 2, 1980

Belknap 17

Mr. H. Dean Raish
Vice President
Michigan Oil Company
Post Office Box 1328
Jackson, Michigan 49204

Dear Mr. Raish:

30 Day Production Test

Tosch-Molson #1-17
Permit Number 33255
Section 17, T34N, R5E
Belknap Township, Presque Isle County

Permission is hereby granted to perform a 30 day test on the above mentioned well. The 30 day test packet is enclosed. Please forward all test data to my attention as soon as it is completed.

Sincerely,

Ronald J. Pollock, Asst. Supervisor
Production and Proration Unit
Geological Survey Division

RJP:sew

ENCLOSURES

cc: C. W. Cleveland
File



BELKNAP 17-34N-5E
33255

MICHIGAN OIL COMPANY
SUBSIDIARY OF SPARTON CORPORATION
PRODUCERS OF OIL AND GAS
P. O. BOX 1328 JACKSON, MICHIGAN 49204

April 28, 1980

Mr. Ron Pollon
Department of Natural Resources
P.O. Box 30028
Lansing, MI 48909

Re: 30 Day Production Test Permit
Tosch-Molson #1-17
T34N, R5E, Sec. 17
Presque Isle, Michigan

Dear Sir,

Michigan Oil Company hereby requests permission to conduct a 30 day Production Test on the above referenced well which was completed February 12, 1980.

The well produced a total of 1,876 barrels of oil during the completion operation which took almost two months and involved several stages of perforations and squeeze jobs as documented in the accompanying completion report. The well is in a new reservoir which shows evidence of extensive salt plugging. As a consequence of all these factors, we believe that a 30 day Production Test is necessary in order to perform a meaningful evaluation of this reservoir.

Sincerely yours,

MICHIGAN OIL COMPANY


H. Dean Raish
Vice President

Enclosure

HDR/me

RECEIVED
GEOLOGICAL SURVEY DIV.

APR 20 1980
AM
7,8,9,10,11,12,1,2,3,4,5,6 PM

COMPLETION REPORT

MICHIGAN OIL - NORTHERN MICHIGAN EXPLORATION
TOSCH-MOLSON NO. 1-17
NE SW SW, Section 17, T34N, R5E,
Belknap Twp., Presque Isle Co., Michigan

Field: Wildcat
891' FSL; 1274' FWL of SW/4

8-5/8" 24# K-55 Csg. set @ 1665'
5-1/2" 15# K-55 Csg. set @ 3209'

12/20/79 Had deadmen built and set with backhoe;
plowed snow off location and sanded hill for rig to
move in.

Moved in workover rig and set up; hauled in 210 bbl.
tank, 3200' of 2-7/8" tubing and 100 bbls. 11# salt
water.

12/21/79 Installed Upper Tree (sour trim) and ran PDC and Bond
Log by Schlumberger; ran tubing to 3156' and came out
of hole; S.D.

12/26/79 Ran Baker R-3 Production Packer w/201' of tailpipe;
total tubing ran 108 jts., set @ 3163'; loaded hole
w/coreband water by Dowell and spotted 250 gals. 28%
perforating acid.

Pulled 7 jts. tubing and set @ 2958'; pressured up to
500# on packer; held okay; pressured up to 2000# on
wellhead; pressure held.

Perforated by Schlumberger from 3156' to 3163' (14 holes
w/2 shots/ft.); hooked up Dowell to squeeze away
perforating acid; Max. psi 2100; no injection rate;
2-1/2 hrs. to pump 5 bbls. away; SIP 1500#; S.D.

12/27/79 SITP 1300 #

Well blew down in 1 min.; flowed 4 bbls. back in 45
mins.; started swabbing; swabbed and flowed back
22 bbls; hole dry; show of gas, no oil.
Total fluid to recover 24.61 bbls.; S.D.

12/28/79 SITP 150 #

Swabbed total of 6 bbls., hole dry; fluid running
75% oil; total back 28 bbls.

12/28/79 (Cont'd.)

Acidized by Dowell w/2000 gals. 28% acid;

Max. psi 1700 Avg. psi 1700
 Max. Inj. 1 BPM Avg. Inj. .5 BPM
 ISIP 1600 psi 15 min. later 1500 psi
 30 min. later 1500 psi
 Time: 1 hr. 40 min. for the job.

Opened well up and flowed for 1 hr; made 42 bbls. fluid and died; total fluid to get back 67 bbls.; show of gas, no oil; dirty looking water coming back; S.D.-dark).

12/29/79 SITP 1100 psi; flowed 15 min. and died;
 Swabbed and flowed back 40 bbls. fluid; last 5 hours swabbed 11 bbls. fluid; running 75% oil and 25% dirty water; total back from job 82 bbls.; hole dry; S.D.

1/2/80 SITP 1100 psi (shut in for 92 hrs.)

Opened well up and flowed 16 bbls. oil in 26 min. and died; flowed and swabbed total 24 bbls. (last 8 bbls. running 50% water); hole dry; total back 108 bbls.

Installed BOP and pulled tubing and packer; SI BOP and S.D.

1/3/80 SIWHP 275 psi (blew down, no fluid)

Installed HOWCO E.Z. Squeeze Tool, ran to 3130' and set tool; squeezed w/50 sx. Comm. w/HA-5 by HOWCO; didn't squeeze; took 50 sx. @ 1400 psi and over flushed w/1 bbl. water; S.D.

1/4/80 Ran 1 jt. back in and set stinger in tool and pressured up to 2000 psi; broke back to 1800 psi; pumped in @ 1800 psi @ 2 BPM

Squeezed w/50 sx. w/Hal-9 Comm.; squeezed 40 sx. in formation @ 2800 psi; pulled stinger out and reversed excess cement; pulled tubing and removed stinger; S.D.

1/7/80 Ran 2-7/8" tubing w/Baker Packer to 3122' to load hole w/coreban water and spotted 250 gals. 28% perf. acid by Dowell; pulled 5 jts. out and set tubing @ 2970'; buttoned up wellhead; S.D.

(Schlumberger snowed in, couldn't make it); S.D.

1/8/80 Perforated by Schlumberger @ 3070' to 3111' (40 ft. w/1 shot/ft.); squeezed away 3 bbls. perf. acid @ 1900 psi; time: 1-1/3 hrs. to complete job.; 30 min. later 1300 psi; swabbed and flowed 41 bbls. fluid; SG&O. Total to recover 20.5 bbls.

1/9/80 SITP 900#

Swabbed and flowed back 31.5 bbls. (hole dry);
total fluid back 72.5 bbls. (50% oil);
acidized by Dowell with 2,000 gals. 28% ;

Max. psi 2000#	Average psi 1800#
Max. inj. 1 BPM	Average inj. 1/8 BPM
ISIP 1500#	30 min. later 1400#

Total fluid to recover 67 bbls.; time to complete job: 1 hr. 38 min.; opened well up to 24/64 choke and flowed 3 hrs.; S.D.; flowed back 125 bbls. fluid on 24/64 choke; FTP 510#; drew off 54 bbls. water.

1/10/80 SITP 980#

Flowed well for 9 hrs. and made 147.5 bbls.;
1st hr. FTP 510#; choke 20/64; 26 bbls.
9th hr. FTP 100#; choke: open; 8 bbls., cutting gas last 3 hrs.; hauled 300 bbls. out to be treated.

1/11/80 SITP 310#

Flowed for 2 hrs. and made 44 bbls.; FTP 60; choke: open;
Acidized by Dowell with 7500 gals. 28%;

Max. psi 400#	Average psi 100#
Max. inj. 3 BPM	Average inj. 3 BPM
ISIP 400#; 1 min. later 100#;	30 min. later Vac.

Fluid level down hole 400'; shut in for 1 hr. and began swabbing; total to recover 199 bbls.; flowed and swabbed 116 bbls., running 60% oil;

1/12/80 SITP 660#

Flowed back 177 bbls. in 9 hrs.
FTP 100#; choke: 30/64; last hr. made 6 bbls. (running 20% salt water for 9 hrs.)
1st. hr. FTP 320; pressure dropping in the 9 hrs. to 100#; hauled 300 bbls oil to be treated.

1/14/80 SITP 400#

Flowed and swabbed 112 bbls. in 8 hrs.; last 3 hrs. swabbed 3 pulls per hr.; hauled 100 bbls. oil to treater.

1/15/80 SITP 290# (S.I. 16 hrs.)

Killed well to run Tracer Log (Schlumberger); S.D.

1/21/80 SITP 380#

Flowed back 144 bbls. fluid, running 30% water (3 hrs.); total recovered 652 bbls.; hauled 200 bbls. to be treated; killed well w/50 bbls. salt water, installed BOP and pulled 51 stands tubing; S.D.

- 1/22/80 SITP 80#; (blew down)
Killed well w/50 bbls. salt water (Dowell); Rigged up Schlumberger and ran a 5-1/2" Baker Bridge Plug; set @ 3065'; ran 3059' of 2-7/8" tubing w/Baker Packer; circulated hole w/clean salt water and spotted 250 gals. 28% perf. acid (Dowell); pressured up on bridge plug; press. held; pulled 5 jts. tubing and set @ 2899'; took off BOP and installed wellhead; rigged up Schlumberger to perforate; first gun stopped @ 1700'; came out of hole, paraffin in tubing; tore SJ down and S.I.
- 1/23/80 Removed wellhead, pulled tubing and laid on skid to steam; steamed tubing and ran back in hole; set tubing @ 2898' and buttoned up wellhead.; rigged up SJ to perforate and ran in hole with first gun; perforated from 3047' 3050', 3053', 3056', and 3059'; second gun 3032', 3034', 3036', 3038', and 3040'; third gun 3017', 3019', 3021', 3026', and 3027'; fourth gun 3009', 3004', 3003'; no blow on vac.; total 18' - 18 holes; hooked up Dowell and pumped away 3 bbls. perf. acid on a vac.; S.D.
- 1/24/80 SITP 100#
Swabbed and flowed 168 bbls. in 8 hrs.; flowed last 4 hrs. making 20 bbls. per hr.; FTP 100#; choke: open; 20% water last hr.; S.D.
- 1/25/80 SITP 520#
Flowed and swabbed 112 bbls. fluid running 20% water; last 3 hrs. swabbing, made 6 bbls. per hr. w/3 pulls; running 2% water; TP 0.
- 1/28/80 SITP 570#
Swabbed and flowed 100 bbls., making 8% water; last 4 hrs. swabbing (3 pulls each) made 31 bbls. fluid.
- 1/29/80 SITP 300#
Blew well down, flowed 1 hr., made 11 bbls. and died; loaded hole w/50 bbls. salt water, installed BOP and pulled tubing; installed E.Z.S.V. Squeeze Tool by HOWCO; ran back in hole w/tubing and set tool @ 2971.5; S.D.
- 1/30/80 Squeezed w/200 sacks Hol-3 by HOWCO w/2% c.c.; injection rate 6 BPM @ 600#; squeezed 185 sacks in formation @ 2500#; time: 1-3/4 hrs.; reversed out excess and came out of hole with tubing and stinger; S.D.
- 1/31/80 Rigged up power swivel to drill out Bridge plug and squeeze tool; started drilling @ 2951' to 3059'; good cement all the way; S.D.

- 2/1/80 Drilled out Bridge plug and drilled to 3112'; good cement all the way; pulled tubing and bit; S.D. bit dropped 3' below bridge plug;
- 2/4/80 Ran 2-7/8" tubing back in hole with Baker packer to 3088'; ready to circulate hole with clean salt water and spot 250 gal. 28% perf. acid; removed BOP and buttoned up wellhead; S.D.
- 2/5/80 Hooked up Dowell and circulated hole w/clean salt water; spotted 250 gals. 28% perf. acid @ 3088'; pulled 6 jts. tubing back up to 2890' and set; ready for SJ @ 11:00 a.m.; S.J. broke down; called for truck; new truck on location @ 4:00 p.m.
- Rigged up SJ and ran in hole; perforated from 3073', 3076', 3079', 3082', 3085', 3088', 3065', 3067', 3069', and 3047', 3050', 3053', 3056', 3059', 3003', and 3004'; second run: 3073', 3076', and 3079'; came out of hole, rest of gun wouldn't fire; ran in two more times after gun was repaired but gun wouldn't fire; S.D. 11:00 p.m.
- 2/6/80 Rigged up SJ and ran in hole, perforated from 3026', 3032', 3034', 3036', 3038' and 3040'; came out and ran second gun; perforated from 3017', 3019', and 3021', and 3009'; rigged down SJ; total of 29 feet @ 1 shot/ft. (29 holes).
- Squeezed away 5 bbls. perf. acid; Max. psi 1550#; no rate; no average; squeeze took 1 hr. 35 min.; 15 min. later 900#; started swabbing; first two hrs. made 25 bbls. fluid; SO&G; third hr. made 6 bbls. oil, gas and acid water; total returned 31 bbls; total to recover 26 bbls.; S.D.
- 2/7/80 SITP 100#
- Swabbed total of 13 bbls., running 50% oil, 50% acid water; rigged up HOWCO w/7000 gal. 28% acid;
- | | |
|--------------------|--------------------|
| Max. psi 1400# | Average psi 1300# |
| Max. inj. 1.25 BPM | Average inj. 1 BPM |
| ISIP 1400# | 45 min. later 660# |
- Used 40 perf. balls;
- Flowed well for 3 hrs. and made 195.5 bbls. fluid; FTP 630#, 26/64 choke; last hr. running 90% oil; S.D.; had 186 bbls. fluid to recover.
- 2/8/80 SITP 820#
- Flowed 283 bbls. fluid, running 95% oil; FTP 600#, 20/64 choke; last hr. on 20/64 choke, 26 bbls./hr., FTP 600# (flowing time 10 hrs.); hauled 220 bbls. oil and acid water to be treated.

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2/11/80 SITP 1160#

Flowed well 6 hrs. and made 153 bbls., 99% oil;
FTP 330#, 25/64 choke; tubing paraffined off;
had to S.I.

2/12/80 SITP 1020#

First two hrs. hooked paraffin and made 45 bbls.
oil; FTP 500#; 3rd hr. 25/64 choke, FTP 620#,
made 32 bbls.; 4th hr. 25/64 choke, FTP 660#,
made 32 bbls., a total of 109 bbls., 100% oil;
hooked paraffin again and shut well in; released
rig.

2/25/80 Oil Gravity 41.9, Sulfur 0.59%

BELKNAP 17-34N-SE

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

33255

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

December 26, 1979

Ran Baker Packer on tubing w/200' tailpipe below packer. Tubing @ 3163'. Circulated hole w/Corban water. Spotted 250 gals 28% HCL. Pulled 7 jts. of tubing putting bottom of tubing @ 3958'. Set packer & buttoned up well head. Went in w/Schlumberger & perforated from 3156' to 3163' w/2 SPF. Rigged down Schlumberger & hooked up Dowell to squeeze acid away. Pressured up gradually to 2100# over 3 hrs. Pressure would drop appoz. 200# over 20 mins., increase pressure to 2300#. Pressure broke back to 2000# and formation took acid. Pressure down to 1500# & remained. SI over night.

December 27, 1979

SI Pressure 1300#. Opened well & pressure, blew down to zero. Recovered 4 BBL load & acid water. Swabbed 17 BBL of load & acid water with small amount of gas, no oil. 3 BBL to recover, Swabbed dry.

December 28, 1979

SI tubing pressure @ 150#, opened well pressure, blew down immediately. Pulled swab, recovered 4 BBL of oil. Prepared to acidize w/2000 gals., 28% HCL.

33255

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

Tosch-Molson #1-17

December 29, 1980

1000# on tubing. Flowed BBL water and died, no shows. Swabbed 71 BBL total by 10:00 a.m. an started to show oil & blow of gas & dirty water on swab. Swabbed 5 more, has average 1 BBL/hr. & little blow of gas. 25% dirty acid water. 75% oil.

January 4, 1980

Ran 8 5/8" casing to 1424' to 1498'. Cemented 200 sxs of Common 3% Chloride, 250 sxs of Hyco, 3% Chloride, circulated 13 sxs. Plug down 7:35. F-Salt 1472'.

January 7, 1980

Ran tubing to 3122'; filled hole with carban water; spotted 250 gals. 28% perf. acid; pulled tubing back up to 2970; packer set at 2790'; set packer put on wellhead and S.D.

January 8, 1980

Tubing set @ 2958. Packer set @ 2780'. Pressured up 500# on packer. Perforated 3070-3111' w/ISPF. Squeezed away 3 BBLS of 28% HCL perf. acid. Max squeeze pressure 1900#. Pump up to 1900# pressure would bleed off to 1500# in 3 to 4 mins. to squeeze away 3 BBL acid. Opened up well and well flowed small volume of fluid for 1 hour. Went in 300' and pulled swab one time and well began flowing. Total fluid recovered during first 1 hr. 30 mins. was 28 BBL. At 4 p.m. well was flowing oil on 20/64# ck. tubing pressure 220#.

MICHIGAN OIL COMPANY

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JACKSON, MICHIGAN 49204

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PROGRESS REPORT

Tosch-Molson #1-17

January 9, 1980

SITP 900

1st. Hr.

Flowed 30-1/3 BBLS. and died.

2nd Hr.

Pulled swab 3 times and rec.

1-1/2 BBLS. Hole dry. Acidized by Dowell with 2,000 gals.

28%.

Max. Press. 2000

Max. Inj. Rate 1 BPM

Avg. Inj. Rate 1/8th BPM

Avg. Press. 1800

ISIP 1500, 30 mins. later
1400, Total flush and acid to get back 67 BBLS.

1st Hr.

Rec. 45-1/2 BBLS. fulid

FTP 600; 24/64ths choke

2nd Hr.

Rec. 44-1/2 BBLS. fluid

FTP 510' 24/64ths choke
will flow 1 more hour today
and shut in overnight;
flow test tomorrow.

January 11, 1980

SITP 310# this a.m.

9:00 - 10:00 1st. Hour

Open choke, 28 B.O., FTP 120#

10:00 - 11:00 2nd Hour

16 B.O., FTP 60#,

Well almost went dead. Dowell arrived at 11:30 a.m.

SI, Acid w/7500 gals. @ 28%.

Max. Pressure 400

Max. Inj. Rate 3 BPM

Avg. Inj. Rate 3 BPM

50 perf. balls (17 hit)

Getting ready to swab back

Pulled swab 5 times, swabbed 16 BBLS & kicked off. Flowed & made 56 BBLS, 350# FTP 1st Hr.

2nd Hour

Flowed 44 BBLS @ 350# TP, 60% oil,
36/64" Choke

MICHIGAN OIL COMPANY

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SUBSIDIARY OF SPARTON CORPORATION

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P. O. BOX 1328

JACKSON, MICHIGAN 49204

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PROGRESS REPORT

TOSCH-MOLSON #1-17

January 11, 1980 Total fluid back 116 BBLS.,
 to recover 188 BBLS original.

January 12, 1980 SITP 660#
1st Hour
320# FTP, 80% oil, 20% water,
42 BBLS, 30/64" choke.
2nd Hour
380# FTP, 20% water, 35 BBLS,
30/64" choke.
3rd Hour
320# FTP, 28 BBLS.
4th Hour
300# FTP, 20% water, 21BBLS,
30/64" choke
5th Hour
220# FTP, 80% oil, 17 BBLS,
30/64" choke,
6th Hour
200# FTP, 13 BBLS.
7th Hour
160# FTP, 8 BBLS.
8th Hour
120# FTP, 7 BBLS.
9th Hour
100# FTP, 6 BBLS.

January 15, 1980 SITP 290#
Swabbed and flowed 112 BBL
Oil, 1-2% water. Have recovered
total of 103 BBL acid & load
water; 85 BBL to recover. Ran
Schlumberger radioactive Tracer
Survey. Determined that all
treatment acid went into
formation between 3070 and 3080.
Prep. to set BP and perforate upper
section. Well will be shut in until
Monday, January 21.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

January 21, 1980

SITP was 380#. (SI for 6 days)
Opened well on 40/64" choke.
1st. Hr. flowed 34 BBL,
with 30% water.
2nd Hr. flowed 44 BBL,
with 30% water.
3rd Hr. flowed 28 BBL,
with 30% water.
Preparing to set bridge
plug and perforate upper
section.

January 22, 1980

Bridge plug set @ 3065'.
Spotted 250 gals of 28% perf.
acid. Started in tubing
with perf. gun could not
get below 1700' due to
parafin in tubing. Prep.
to come out of hole & steam
tubing.

January 24, 1980

SITP 100#. Blew down
immediately. Started
swabbing. 1st hr. swabbed
27 BBL, 75% muddy salt water.
2nd hr. swabbed 23 BBL, 50%
water. Well kicked off.
Flowing in open choke. 3rd hr.
flowed 30 BBL, 50% water, FTP
was 50# to 120#. 5th hr. flowed
22 BBL, 40% water, FTP was 50#
120#. 6th hr. flowed 21 BBL,
was 25% less muddy salty water.
Originally had 22 3/4 BBL of
perf. and load water to recover
after 6th hr. had recovered 75
BBL water. Wt. was 10.7#.

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MICHIGAN OIL COMPANY

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JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

-
- January 28, 1980 SITP 570#, flowed and swabbed 100 BBLS of oil, 8% water. Last 4 hrs. swabbed 7 BBLS per hour.
- January 29, 1980 SITP 300#. open well and flowing. Killing well, put on BOPS and coming out of hole with tubing. Put EZSV Squeeze tool on and run back in hole.
- January 30, 1980 Round trip tubing.
Ran ESEZ squeeze tool back in the hole and set @ 2917 $\frac{1}{2}$ '.
Shut down
Squeeze w/200 sxs w/common cement by Haliburton.
- January 31, 1980 Squeeze with 200 sxs, 3% calcium chloride. Injection rate before the squeeze was 600 BBLS/min. @ 600#. Squeezed away 185 sxs in the formation. Squeezed 2500#. Reversed out, came out of the hole w/tubing & ran it back in. Shut down for night.
THIS MORNING
Rigged up Power Swivel to drill out cement.
- February 1, 1980 Drilled out Squeeze tool @ 3951'. Drilled to 3059', had good cement all the way.
THIS MORNING
Drilled @ 3065', on top of the Bridge plug.
Took bridge plug out @ 3112' good cement all the way.
Pulling tubing bit. SI.
Shut down for the weekend.

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MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

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P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

February 4, 1980

Running tubing back in
with packer.
WO orders
Running 2 7/8" tubing
back in the hole with
the Baker Packer @ 3088'.
Buttoned up well head.

February 5, 1980

Dowell hooking up with
clean salt water, spotted
250 gals of perforated acid
and well button up well head
and perforate.
SJ on location; truck broke
down; called for another truck;
truck arrived at 4:00 p.m.
rigged up; perforated with first
gun at 3088', 3085', and 3082';
3065', 3067' and 3069'; 3047',
50', 53', 56', 59'; 3003' and .04'.
Came out of hole and rigged
up with second gun; perforated
3073', 76' 79' switch broke, came
back out of hole; tried to
repair gun. (this happened
3 different times)
S.D. 10:30 p.m. SJ retruned
to Mt. Pleasant and picked up
more guns and returned to location.

February 6, 1980

Rigged up; perforated 3026', 29'
32', 34', 38', and 40'. Came out
of the hole and rigged up
another gun; perforated 3017'
19', and 21'; perforated 3009'.
Total of 27 holes. This
morning SITP was 0, after perfcrating,
little vaccum. Squeezed away
perforating acid; pressured up to
1200# and shut down. Pressure
dropped back to 600# in 2 or 3 mins.
Pumping back up-3/4 BBL. to be
pumped back in and have 3 to 4 BBLS
to go. Will flow or swab back.
Acidize tomorrow morning with
7000 gals.

33255

MICHIGAN OIL COMPANY

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TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

February 7, 1980

Squeezed 5 BBL of perforating acid. Max. pressure was 1550#. 1 hour and 35 mins. to bleed away, 15 mins. after the job pressure it was 900#. Total fluid of acid water and fluid water equaled 26 BBLS of Total Fluid. The first two hours they got 25 BBLS back, the 3rd hour they got 6 BBLS back, A total of 31 BBLS and 40% oil.

SITP 100#.

Swabbed 2 hrs., made 11 BBLS of fluid, 7 BBLS of it was oil. Haliburton pulled on location, acidized-7,000 gals, 28% acid.

Max. Pressure 1400#

Avg. Pressure 1300#

Max. Injection pressure

1.25 BBLS, Averaging 1 BB/min. SI Pressure @ 1400# in 45 mins. it was 660#. 1st hour 26/64" choke, flowed 72 BBLS of fluid, running 50% oil, flowing tubing pressure was 720#.

5:00 p.m.

26/64" choke, made 59½ BBLS, 80% oil, flowing tubing pressure was 680.

6:00 p.m.

26/64" choke, made 64 BBLS, 90% oil, flowing tubing pressure was 630.

SI for night.

February 8, 1980

SITP was 820#.

1st hour 26/64" choke, made 47 BBLS, 90% oil, flowing tubing pressure was 602. Total 242 BBLS. Had 188 BBLS of Acid water and load water to get back.

MICHIGAN OIL COMPANY

PRODUCERS OF OIL AND GAS

SUBSIDIARY OF SPARTON CORPORATION

TELEPHONE 517 788-9770

P. O. BOX 1328

JACKSON, MICHIGAN 49204

PROGRESS REPORT

TOSCH-MOLSON #1-17

February 11, 1980

SITP 1160#.

Flowed a Ttoal of 153 BBLS
in 5½ hrs. (Well
Shut in.
Total fluid back 631 BBLS
FTP 340#, 25/64 choke making
38 BBLS.

February 12, 1980

SITP 1020#.

Hooking paraffin first two hours,
made 45 BBLS, Flowed 64 BBLS
in two hours. FIP 660#,
25.64 choke, 32 BBLS per hr.
Flow line partley plused off,
holding 170# back PSI.
Shut down and turn rig loose.
Total fluid flowed back 740 BBLS.

BEL 17-34-5E

33255

STATE OF MICHIGAN



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
BOX 30028
LANSING, MI 48909
HOWARD A. TANNER, Director

March 30, 1983

Mr. Art Matzkanin, Petroleum Engineer
Northern Michigan Exploration Company
One Jackson Square
P.O. Box 1150
Jackson, Michigan 49204

Dear Mr. Matzkanin:

Northern Michigan Exploration Company
Tosch-Molson 1-17
Belknap Twp., Presque Isle Co.
P.N. 33255
NE SW SW

This letter is to advise that an exception to the "No Flare Order", Special Order 3-71 is being granted for the above well, subject to the following conditions:

1. All gas must be burned in an elevated flare with a height of at least twenty feet above grade equipped with a continuously burning pilot light and an automatic pilot outage detection/pilot reignition system. A propane-fueled pilot will not be required. If the flare causes odor problems, a higher flare may be required.
2. Total daily production will be limited to 45 barrels based on the oil and gas produced during the 11/22/82 to 2/22/83 test.

GOR = 1499 Mcf/2491 Bbl = 601

Based on an average daily gas production rate of

27 Mcfgpd (for 55 days showing gas production), the daily oil volume will be restricted to 45 barrels.

3. If chronic odor complaints resulting from operation of this well are received, the exception will be terminated and the well will be shut in and will remain shut in until such time as gas sales lines are available. The Geological Survey Division will act as sole judge of what constitutes "chronic odor complaints".

33255

Art Matzkanin

-2-

March 30, 1983

The field staff of the Geological Survey Division will be monitoring this well. If production characteristics appear to change, new production tests will be ordered, which may lead to a revocation of the exception.

If you have any questions, please call 517-373-8707.

Sincerely,

Raymond G Vugrinovich

Raymond G. Vugrinovich
Supervisor, H₂S Subunit
Geological Survey Division

RGV:s1b

cc: Layton
Ellis
Ellison
Toland, AQD, Roscommon

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

33255

INTEROFFICE COMMUNICATION

March 10, 1983

TO: Bill Ellis, Supervisor, Gaylord District Office
FROM: Ray Vugrinovich, Supervisor, H₂S Subunit, Geological Survey Division
SUBJECT: Exception to the "No Flare" order for the Michigan Oil Company Tosch-Molson 1-17 (P.N. 33255), Belknap Twp., Presque Isle Co.

Northern Michigan Exploration Company has requested an exception to Special Order 3-71. We are reviewing the data from the 11/24/82 to 2/22/83 test period prior to responding to their request. Before we make a final decision, we'd like to know your thoughts about granting an exception.

RGV:s1b

cc: Layton Godbold

Ray Vugrinovich

OPPOSED (TX WITH ELLIS 3/22/83)

1. IF NME GETS AN EXCEPTION, EVERYONE WILL WANT ONE
2. SOUR GAS WILL CAUSE ODOR PROBLEMS IN NEAR-BY BELKNAP, DUE TO POSSIBLE INATTENTIVENESS OF LEASE OPERATORS.

IF ONE IS GRANTED, IT SHOULD BE WITH THE UNDERSTANDING THAT ODOR PROBLEMS WILL RESULT IN REVOCATION OF THE EXCEPTION.

NATURAL RESOURCES COMMISSION

JACOB A. HOEFER
 E. M. LAITALA
 HILARY F. SNELL
 PAUL H. WENDLER
 HARRY H. WHITELEY
 JOAN L. WOLFE



WILLIAM G. MILLIKEN, Governor

DEPARTMENT OF NATURAL RESOURCES

HOWARD A. TANNER, Director

October 1, 1982

Mr. R. T. Bacon
 Manager Drilling and Production
 Michigan Oil Company
 Post Office Box 1328
 Jackson, Michigan 49204

Dear Mr. Bacon:

Tosch-Molson #1-17
Permit Number 33255
 NE SW SW Section 17, T34N R5E
 Belknap Township, Presque Isle County

Confirming our telephone conversation of September 29, 1982 the test referred to in my September 23, 1982 letter regarding the above mentioned well is permitted for a period of up to 3 months. Daily production is to be submitted to this office on a weekly basis. The daily production will be checked weekly to determine whether a stabilized rate of production has been reached.

In order to avoid unnecessary delay regarding a determination on your request for an exception to the "No Flare Order (Special Order 3-71 amended) please supply this office with the following information:

The cost of construction of a gas line for the purpose of establishing a market connection assuming a maximum distance of one mile.

The cost and fuel usage for compression to area line pressure of the natural gas produced.

Please submit this information with your first weekly production.

If you have any questions regarding this matter, please feel free to contact me.

Sincerely,

Tom Godbold, Asst. Supervisor
 Production and Proration Unit
 Geological Survey Division

TG:sew

cc: B. G. Ellis

Say yes to Michigan!

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

JACOB A. HOEFER
 E. M. LAITALA
 HILARY F. SNELL
 PAUL H. WENDLER
 HARRY H. WHITELEY
 JOAN L. WOLFE

WILLIAM G. MILLIKEN, Governor

33255

DEPARTMENT OF NATURAL RESOURCES

HOWARD A. TANNER, Director

September 23, 1982

Mr. R. T. Bacon
Manager Drilling and Production
Michigan Oil Company
Post Office Box 1328
Jackson, Michigan 49204

Dear Mr. Bacon:

*Tosch-Molson #1-17
 Permit Number 33255
 NE SW SW Section 17, T34N R5E
 Belknap Township, Presque Isle County*

I received your letter of August 23, 1982 requesting an exception to the "No Flare Order" (Special Order 3-71 amended) for the above mentioned well. Your request was made on the belief that the well is a low productivity well in addition to being in a remote location.

With regard to productivity it appears from data in our files that the reservoir potential has been adversely affected by salt plugging. This would have an impact on both reserve estimates and well production. To better determine the potential of this well you are granted permission to run a thirty day test. The test is to be run for 30 continuous days. I am enclosing some daily production report forms. These forms should be filled out and submitted to this office on a weekly basis. During the testing all excess gas production is to be burned in a U-tube or rocket type incinerator.

Please notify this office and the Gaylord Field Office (Bill Ellis 517 732-3541) as to the date that testing will commence.

A determination on your request for an exception to the "No Flare Order" is being delayed until this testing is over.

If you have any questions please feel free to contact me.

Sincerely,

*Tom Godbold, Asst. Supervisor
 Production and Proration Unit
 Geological Survey Division*

TG:sew

ENCLOSURES

CC: B. G. Ellis

Say yes to Michigan!

33255

MICHIGAN OIL COMPANY

SUBSIDIARY OF SPARTON CORPORATION

PRODUCERS OF OIL AND GAS

P. O. BOX 1328 JACKSON, MICHIGAN 49204

August 23, 1982

Michigan Department of Natural
Resources
Geological Survey Division
P. O. Box 30028
Lansing, Michigan 48909

Attention: Mr. Thomas Godboldt

Re: Tosch-Molson No. 1-17, Permit No. 33255,
NE SW SW, Section 17, T34N, R5E, Belknap Town-
ship, Presque Isle County, Michigan

Gentlemen:

The captioned well was completed by Michigan Oil as an oil producer on February 11, 1980. Production tests conducted to date (see attached) indicate low productivity with a low and declining GOR. It is our current opinion that, based on the remote location and the gas reserves assigned to this well, the expense of a market hook-up to collect casinghead gas cannot be economically justified.

Michigan Oil requests that the Department grant an exception to the "No Flare Order" for the captioned well for an indefinite period of time. It is our intent to equip the well for production, flaring produced gas not required for lease use, and maintain production for an extended period of time to better evaluate the well's potential. A request for a permanent exception may be in order once additional production data is available.

Your consideration of this request will be greatly appreciated. Please contact us should you require additional information.

Respectfully,

MICHIGAN OIL COMPANY



R. F. Bacon
Manager, Drilling and Production

RFB/ps

Attachment

RECEIVED
AUG 24 1982
GEOLOGICAL SURVEY

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

33255

DAILY PRODUCTION REPORT

FIELD NAME Belknap 17

Michigan Oil Company and
Company Northern Michigan Exploration Co. Permit Number DNR #33255

Discovery Well Tosch-Molson #1-17

Discovery Date November 13, 1979

County Presque Isle

Twp. 34 North Range 5 East

Township Name Belknap

Location NE SW SW, Section 17

Producing Formation Brown Niagaran

Perforations See attached typed Log
for perforated intervals

Treatments See attached typed Log
for acid treatments

PRODUCTION DATA

Date	Choke Size	Hours Prod.	Daily Prod.	Oil Bbls.	Water Bbls.	Gas Mcf.	FTP psig	.FCP 'psig	GOR cfpb	Remarks
1980										
9-23	13/64	24	263	-	-	0	500	-	-	
-24	13/64	24	203	-	-	0	580	-	-	
	15/64									
-25	14/64	24	122	-	-	0	590	-	-	
	16/64									
-26	17/64	24	7	-	-	390	440	-	55,714	Hauled 55 bbls. brine off treater.
	18-22-									
-27	20/64	24	83	-	-	262	180-220	-	3,157	
	15-10									
-28	20/64	24	75	-	-	181	40	-	2,413	
	30-32-30-									
-29	25/64	24	58	-	-	141	40	-	2,431	By-passed total of 1 hr. 25 min.-build TP
	25-									
-30	13/64	23	85	-	-	132	40	-	1,553	SI 1 hr. to bring TP up to 220 - TP wouldn't build
10- 1	13/64	24	0	-	-	110	50	-	-	
- 2	13/64	24	28	-	-	87	45	-	3,107	By-passed 1-1/4 hrs.
- 3	--	--	0	-	(2 hrs.)	8	0	-	-	By-passed 1 hr. a.m.; S.I. 12:00 Midnight
10-4 thru										
10-22	SHUT IN									

Totals 924 1311 1,419

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

PAGE 2

33255

DAILY PRODUCTION REPORT

FIELD NAME Belknap 17

Company _____

Permit Number DNR #33255

Discovery Well Tosch-Molson #1-17

Discovery Date _____

County _____

Twp. _____ Range _____

Township Name _____

Location _____

Producing Formation _____

Treatments _____

Perforations _____

PRODUCTION DATA

Date	Choke Size	Hours Prod.	Daily Prod.			FTP psig	FCP psig	GOR cfpb	Remarks
10-23	10/32	24	197	-	0	220			
10-24	10/32	24	47	-	54	220		1,149	
10-25	12/32	24	48	-	27	160		563	Calibrated gas meter
10-26	12/32	24	48	-	50	220		1,040	TP 100 @ 2 p.m. and 200 @ 3 p.m.
10-27	10/32	24	20	-	25	130		800	Well not flowing - by-passed 1/4 hr.
10-28	10/32	24	30	-	30	120		1,000	
10-29									SI
10-30									SI
11- 1	12/32	24	18	-	40	210		2,222	
11- 2	12/32	24	10	-	36	200		3,600	
11- 3	12/32	24	33	-	48	175		1,455	
11- 4			1	-					SHUT IN-ENDING TEST

Totals 452 = 310 686

R-7127

Prod.

33255

C.W. KING SERVICES INC.
 RT. 1 M-72
 WILLIAMSBURG, MICH. 49690
 616-258-4926

FLOW TEST RECORD FOR MICHIGAN OIL
 LOCATION: TOSCH-MOLSON 1-17
 DATE: 04/21

ORIFICE SIZE = 1
 CHOKE SETTING = 4/64
 ASSUMED GAS GRAV. .75

REC NO.	TIME	FLWG TBNG PRES	FLWG CSNG PRES	BOTM HOLE PRES	BOTM HOLE TEMP	FLWG TUBG TEMP	OIL BBL/ 60M	WTR BBL/ 60M	GAS MCFD	GOR	DIFF
1	1127										
4	1200	1356	1356	0	0	47.52	0	0	45,73	0	6,634
7	1237										
9	1300	1181	1355	0	0	47.07 2E-03		0	162.1 451987	12.99	
13	1351										
14	1400	687.4	1324	0	0	46.46 4.589		0	112.8 684.3	4.095	
15	1405										
19	1500	565.3	1317	0	0	48.82 11.98		0	134.7 471.2	15.89	
20	1500										
24	1600	525.5	1309	0	0	49.14 6.4		0	94.26 613.9	6.255	
28	1700	499.8	1300	0	0	48.67 4.909		0	71.84 613	4.816	
32	1800	484.6	1293	0	0	48.08 4.392		0	59.11 561.6	3.861	
33	1800										
37	1900	481.3	1285	0	0	46.26 4.405		0	60.19 570.7	53.21	
41	2000	481.7	1278	0	0	44.49 4.448		0	58.11 545.2	51.62	
45	2100	473.4	1269	0	0	43.89 4.3		0	57.18 554.1	51.3	
49	2200	461.8	1260	0	0	43.89 4.254		0	56.66 554.8	49.9	
53	2300	457.6	1250	0	0	44.21 4.048		0	58.28 600.1	54.55	
57	0000	452.4	1239	0	0	44.27 3.976		0	56.63 593.8	52.97	

33255

C.W. KING SERVICES INC.
 RT. 1 M-72
 WILLIAMSBURG, MICH. 49690
 616-258-4926

FLOW TEST RECORD FOR MICHIGAN OIL
 LOCATION: TOSCH-MOLSON 1-17
 DATE: 04/22

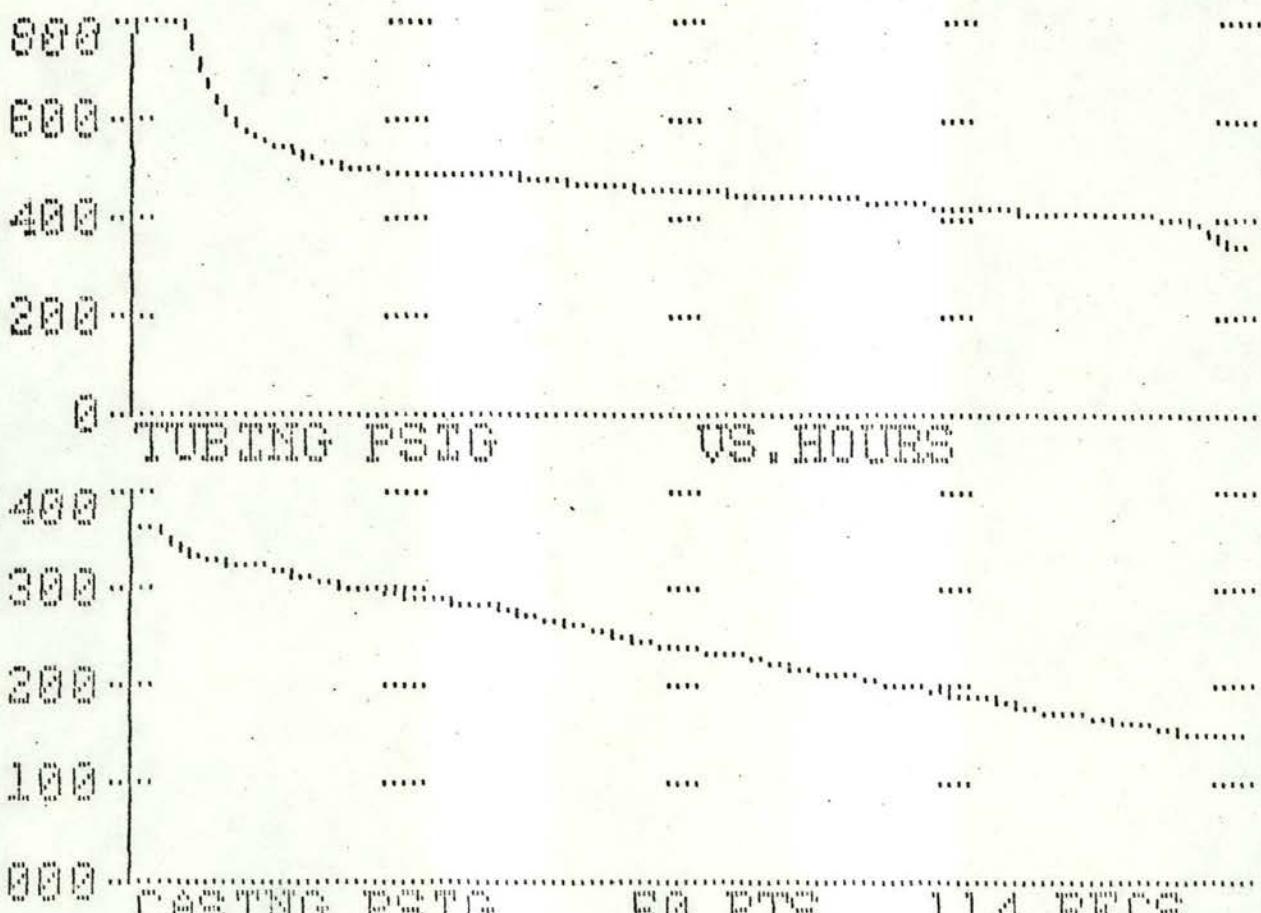
ORIFICE SIZE = .375
 CHOKE SETTING = 8/64
 ASSUMED GAS GRAV. .75

REC NO.	TIME	FLWG TBNG PRES	FLWG CSNG PRES	BOTM HOLE PRES	BOTM HOLE TEMP	FLWG TURG TEMP	OIL BBL/ 60M	WTR BBL/ 60M	GAS MCFD	GOR	DIFF
61	0100	446.2	1232	0	0	44.44	3.896	0	54.08	576.8	47.94
65	0200	442.7	1223	0	0	44.05	3.715	0	53.24	597.1	47.78
69	0300	438.7	1215	0	0	44.02	3.884	0	53.63	575.4	48.33
73	0400	433.4	1207	0	0	43.9	3.492	0	52.77	630.9	47.34
74	0402	STATIC	92								
78	0500	429.9	1200	0	0	43.85	3.364	0	49.62	615	41.35
82	0600	421.9	1191	0	0	43.76	2.982	0	48.97	683.1	20.27
87	0715	415.4	1182	0	0	43.87	3.588	0	47.11	1319	22.72
90	0800	410.2	1173	0	0	45.01	2.144	0	42.93	625.8	29.23
94	0900	406.2	1167	0	0	46.5	2.753	0	38.11	576.6	19.85
98	1000	402.6	1161	0	0	47.59	2.63	0	37.03	586.9	17.66
102	1100	398.2	1152	0	0	49	2.397	0	33.86	588.5	14.75
105	1135	CUT WELL									
107	1200	367.8	1147	0	0	51.43	1.665	0	28.65	769.3	12.52
108	1209	CLEANED CHOKE									
112	1300	348.3	1141	0	0	55.78	.579	0	16.79	1193	7.445
113	1314	GAS SAMPLE TAKEN, H2S 36 PPM									
114	1314	END OF TEST									

AVERAGES AND TOTALS FOR THIS TABLE:

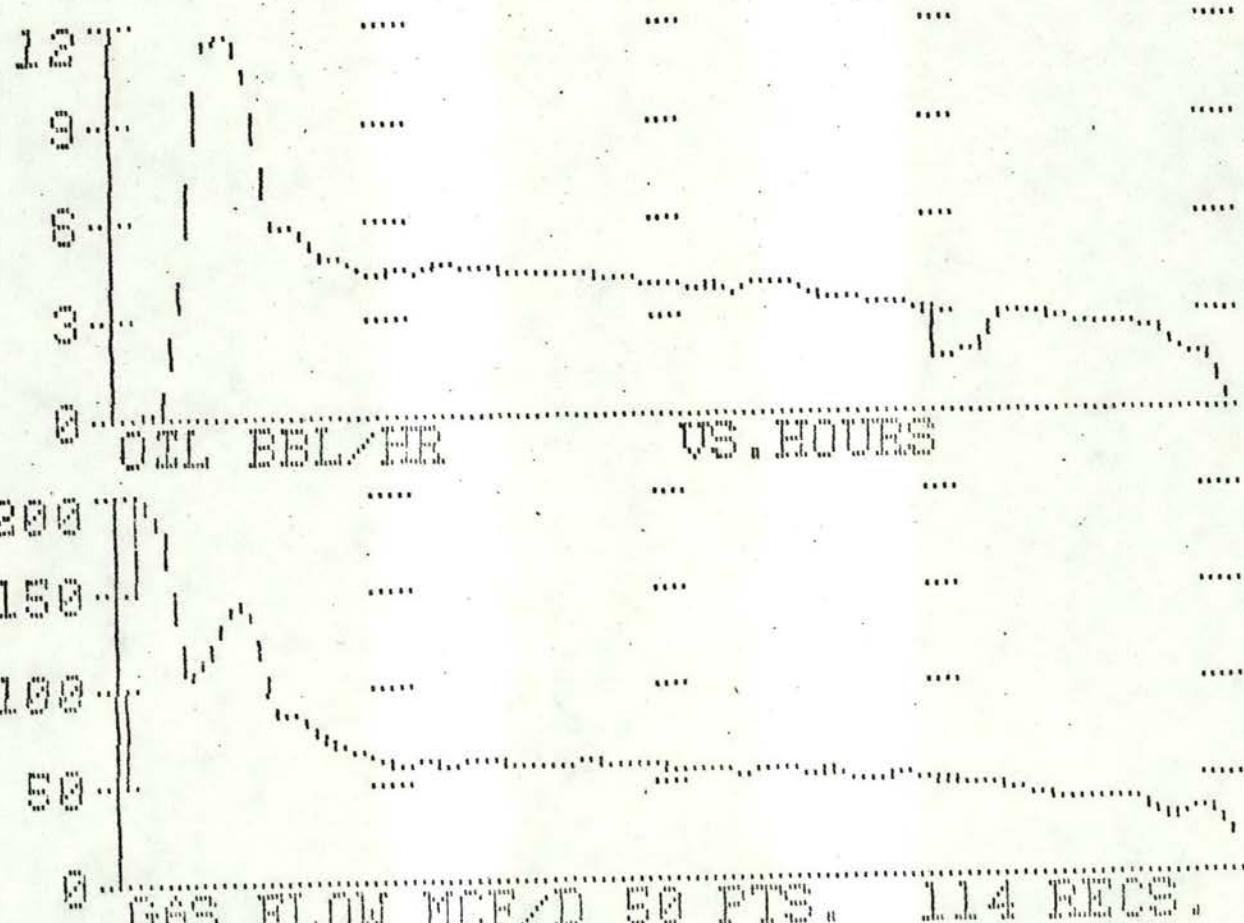
115 1314 513.1 1232 0 0 46.38 94.72 0 60.94 588.5 28.74

33255



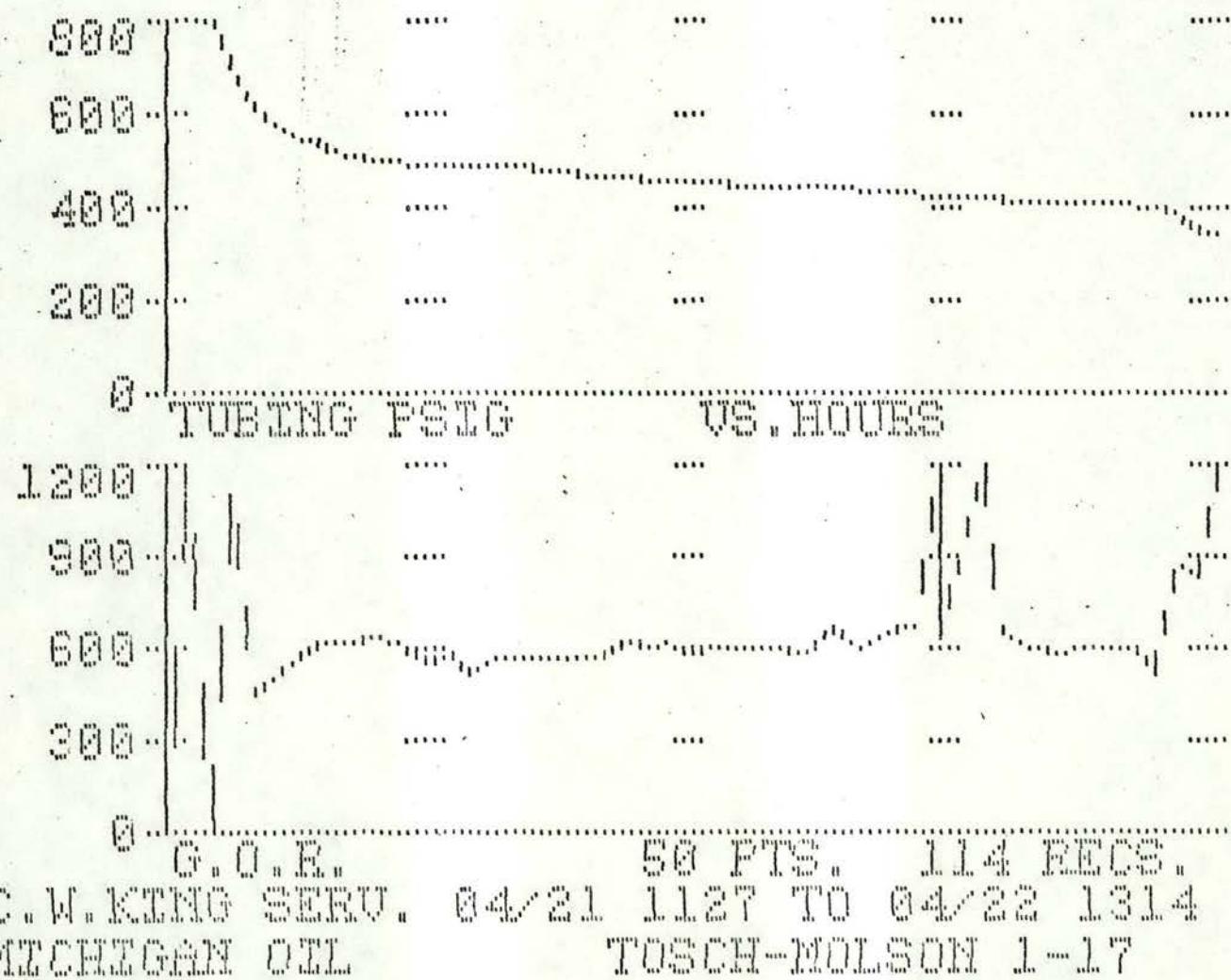
C. W. KING SERV. 04/21 1127 TO 04/22 1314
MICHIGAN OIL TOSCH-MOLSON 1-17

33255



C. W. KING SERV. 04/21 1127 TO 04/22 1314
MICHIGAN OIL TOSCH-MOLSON 1-17

33255



33255

MICHIGAN OIL COMPANY
 SUBSIDIARY OF SPARTON CORPORATION
PRODUCERS OF OIL AND GAS
 P. O. BOX 1328 JACKSON, MICHIGAN 49204

October 27, 1980

RECEIVED
 GEOLOGICAL SURVEY DIV.

Mr. Floyd Layton
 Department of Natural Resources
 Geological Survey Division
 P. O. Box 30028
 Lansing, Michigan 48909

Oct 29 1980
 AM 7, 8, 9, 10, 11, 12, 1, 2, 3, 4, 5, 6
 PM

Re: Tosch-Molson #1-17, Section 17, T34N R5E, Presque Isle County, Michigan;
 DNR Permit No. 33255

Dear Mr. Layton:

During your recent absence from the office, our Production Superintendent, Jack Hogle, spoke with Mr. Art Matzkanin regarding subject well and the thirty day flow test that had been in progress, but with problems.

Difficulties developed early in the flow testing period during Mr. Hogle's absence. Because of improper flowing of the well, the tubing pressure dropped steadily and the well died. After several attempts to keep the well flowing, it was shut in and the test was temporarily halted, pending Mr. Hogle's return.

When Mr. Hogle returned, he contacted your office to request permission to finish out the test, on a restricted choke, to determine the well's capability for the remainder of the testing period. Mr. Matzkanin verbally gave permission to resume testing; however, he did instruct that a written request be on file in your office. This letter will serve as our request.

If you have any problems or instructions in this regard, or if additional information is required, please advise.

Sincerely yours,

MICHIGAN OIL COMPANY

Pat Schaeffer
 (Mrs.) Pat Schaeffer

/ps

cc: Jack Hogle

APR 18 1996

50127 RV

13561 West Bay Shore, Suite 3000
Traverse City, MI 49684
(616) 941-0718
Fax (616) 941-0338



*Reserve Isle
Belknap
17,34N - 05E*

Mailing Address:
P.O. Box 2410
Traverse City, MI
49685-2410

April 15, 1996

Department of Environmental Quality
Attn: Gunther Schmidt
Petroleum Geology and Production Unit
Geological Survey Division
PO Box 30473
Lansing, MI 48909-7973

RE: Tosch Molson 1-17 HD1, Permit Number 50127
and Tosch Molson 1-17 HD2, Permit Number 50127

In response to your letter dated April 4, 1996, enclosed is a copy of the initial daily production test data and the subsurface pressure test data. A gas analysis and liquid analysis is not available. If you have further questions, please contact our office.

Sincerely,

PETROSTAR ENERGY

Leslie Jones
Leslie Jones
Production Department

enclosures

**PETROSTAR ENERGY
DAILY COMPLETION REPORT**

page 7

WELL NAME	TOSCH-MOLSON 1-17 HD-1		
REPORT	DATE	01/08/96	
DAY NO	3		
ACTIVITY	CODE DESC	REMARKS	
STATUS		FLOW TESTING	
FLOW TESTING AS FOLLOWS:			
TIME	TP	CP	CK
02:30PM	580	590	SI
02:45	450	570	14/64
03:00	470	550	15/64
03:15	330	520	21/64
03:30	420	500	21/64
04:00	330	450	22/64
04:30	265	400	25/64
05:00	215	350	26/64
05:30	170	310	30/64
06:00PM	115	270	32/64
07:00	75	240	40/64
08:00	55	200	40/64
09:00	30	190	40/64
09:05AM			NOTES
			STARTED SMALL AMOUNT FLUID
			SMALL AMOUNT FLUID
			SURGING-BRINGING FLUID IN SLUGS.
			CHANGED CHOKE TO 40/64
			SI TO BUILD PRESSURE
			TOTAL FLUIDS 41 BBLS
REPORT	DATE	01/09/96	
DAY NO	4		
TIME ACTIVITY	CODE DESC	REMARKS	
00:00 STATUS		FLOW TEST: TP 435# CP 435#, WENT DOWN IN 10 MINS TO 100# (MAKING FLUID) AT 5:30PM SI WELL WITH 190 ON CSG & 20 TP. MADE 34 BBLS FLUID.	
REPORT	DATE	01/10/96	
DAY NO	5		
FLOW TESTING AS FOLLOWS:			
TIME	TP	CSG	CK
10:15AM	380	375	CK SI
10:45	175	290	28/64
11:15	75	220	44/64
11:45	30	185	OPEN
12:15PM	25	175	OPEN
12:30	10	170	OPEN
01:00	5	180	OPEN
01:15	5	185	OPEN SI @ 1:15PM WILL FLOW TEST AGAIN 1/12/96 FLUID MADE: 18 BBLS
01/11/96 TUBING AND CASING PRESSURE @ 400#.			

**PETROSTAR ENERGY
DAILY COMPLETION REPORT**

page 6

WELL NAME	TOSCH-MOLSON 1-17 HD-1		
OPERATOR	H & H STAR ENERGY, INC.		
REPORT	DATE	01/04/96	
DAY NO	1		

FLOW TESTING

TIME	TP	CP	CK	FLUID	COMMENTS
01:30PM	645	690			SI PRESSURES
01:35	640	690	18/64	-0-	OPENED WELL
02:00	600	610	18/64	-0-	
03:00	580	600	18/64	-0-	SI TO HAUL FLUID
06:00	640	690	18/64	-0-	OPENED WELL - SI PRESSURES
06:15	480	690	18/64	-0-	
07:00	460	590	18/64	-0-	

WELL MAKING FLUID-OIL IS CONGEALED SUCH THAT THE ACTUAL AMOUNT COULD NOT BE DETERMINED.

08:00	400	575	18/64	-0-
08:30	380	550	18/64	-0-
09:00	360	540	18/64	-0-
10:00	320	500	18/64	-0-
11:00	300	460	18/64	-0-
12:00MN	260	450	21/64	-0-
01:00AM	165	400	27/64	-0-
02:00	160	350	27/64	-0-
03:00	100	250	27/64	-0-
04:00	100	225	27/64	-0-
05:00	100	250	27/64	-0-
06:00	80	300	27/64	-0-
07:00AM	80	300	27/64	-0-

13 HRS OF FLOW - ESTIM. FLUID PRODUCED 106 BBLS.

REPORT	DATE	01/05/96
DAY NO	2	

FLOW TESTING AS FOLLOWS:

TIME	TP	CP	CK
08:30AM	240	350	20/64
08:45	OPENED WELL TO A 36/64TH CK		
09:00AM	100	300	36/64
10:00	50	250	36/64
11:00	35	240	36/64
12:00N	25	220	48/64
01:00	40	215	48/64
02:00	25	200	48/64
03:00	25	180	48/64
04:00	SI WELL - NOT PRODUCING ANY FLUID.		

APPROX. OIL PRODUCTION 35 BBLS. TOTAL OIL PRODUCED 238 BBLS *73 BBL*

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50127

Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1

TEST PERIOD SUMMARY

Gauge No.: 77444 Depth: 3040.00 ft Blanked off: No

ID	PERIOD	DESCRIPTION	PRESSURE (psi)	DURATION (min)
A	1	Start Draw-down	544.68	
B		End Draw-down	444.01	146.88
B	2	Start Build-up	444.01	
C		End Build-up	842.51	11272.20
C	3	Start Draw-down	842.51	
D		End Draw-down	18.32	50.88

NOTE: for Pressure vs. Time Plot, see next page.

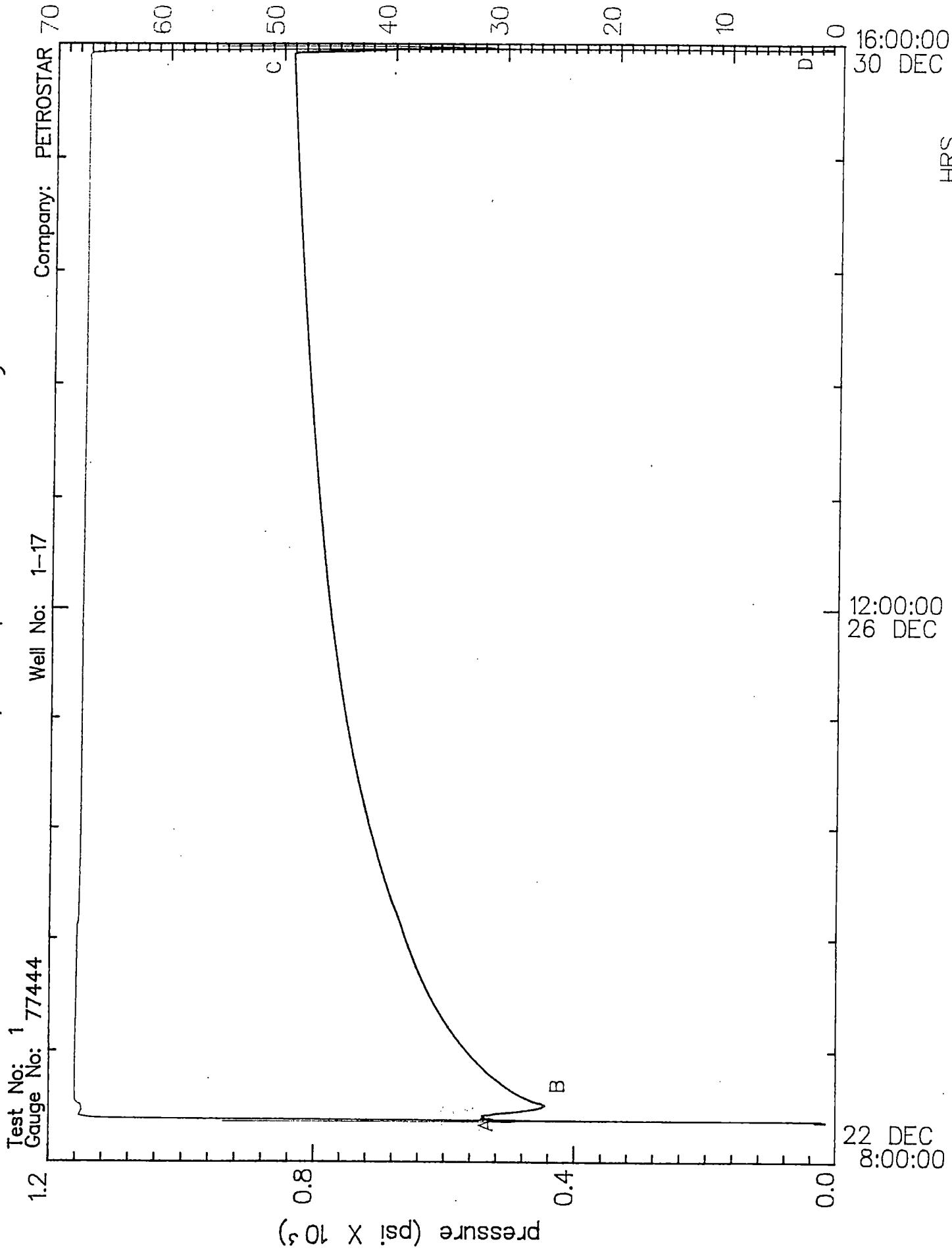
Date:

Ticket No: 928260

Page No: 1.3

temperature (F)

Pressure/Temperature History



50127

50127

Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.1

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
23-Dec-95				Data Print Frequency: 20
08:00:00				On Location
08:30:00				RU & make gauge ring run
09:49:47		31.441	29.0	
09:55:47		26.124	28.5	
10:00:00				P-up lub. RIH w/ tandem EMR's
10:01:47		505.325	29.1	
10:07:47		520.734	44.3	
10:13:47		529.370	55.4	
10:19:47		543.319	62.5	
10:20:16				Gauges on bottom, POOH w/tools

50127

Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.2

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
23-Dec-95		Data Print Frequency: 20		
		*** Start of Period 1 ***		
10:20:16	0.0000	544.682	63.2	
10:26:16	0.1000	538.159	66.0	
10:32:16	0.2000	539.113	66.6	
10:38:16	0.3000	539.951	66.9	
10:44:16	0.4000	540.747	67.2	
10:50:16	0.5000	541.713	67.3	
10:52:26				Open well, flow on 16/64 choke
10:56:16	0.6000	530.647	67.1	
11:02:16	0.7000	525.367	67.2	
11:08:16	0.8000	521.628	67.2	
11:14:16	0.9000	516.732	67.2	
11:20:16	1.0000	510.285	67.2	
11:26:16	1.1000	500.565	67.1	
11:32:16	1.2000	492.302	67.1	
11:38:16	1.3000	485.248	67.1	
11:44:09	1.3981	478.688	67.1	
11:47:09	1.4481	475.555	67.1	
11:50:09	1.4981	472.421	67.0	
11:53:09	1.5481	469.454	67.0	
11:56:09	1.5981	466.527	67.0	
11:59:09	1.6481	463.803	67.0	
12:02:09	1.6981	461.299	67.0	
12:05:09	1.7481	458.783	67.0	
12:08:09	1.7981	456.708	67.0	
12:11:09	1.8481	454.905	67.1	
12:14:09	1.8981	453.196	67.1	
12:17:09	1.9481	451.670	67.1	
12:20:09	1.9981	450.252	67.1	
12:23:09	2.0481	449.087	67.1	
12:26:09	2.0981	447.958	67.1	
12:29:09	2.1481	447.127	67.1	
12:32:09	2.1981	446.301	67.2	
12:35:09	2.2481	445.191	67.2	
12:38:09	2.2981	444.608	67.2	
12:41:09	2.3481	444.236	67.2	
12:44:09	2.3981	443.953	67.2	
12:47:09				SI well for BU
12:47:09	2.4481	444.008	67.2	
12:47:09	2.4481	444.008		
		*** End of Period 1 ***		

50127

Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.3

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
<hr/>				
23-Dec-95 Data Print Frequency: 50				
*** Start of Period 2 ***				
12:47:16	0.0019	444.028	67.2	
12:54:50	0.1281	445.024	67.3	
13:02:16	0.2519	451.899	67.5	
13:09:50	0.3781	456.862	67.6	
13:17:16	0.5019	460.589	67.7	
13:24:50	0.6281	463.899	67.7	
13:32:16	0.7519	466.756	67.7	
13:39:50	0.8781	469.499	67.7	
13:47:16	1.0019	472.040	67.7	
13:54:50	1.1281	474.501	67.7	
14:02:16	1.2519	476.772	67.7	
14:09:50	1.3781	479.022	67.7	
14:17:16	1.5019	481.169	67.7	
14:24:50	1.6281	483.273	67.7	
14:32:16	1.7519	485.290	67.7	
14:39:50	1.8781	487.290	67.7	
14:47:16	2.0019	489.178	67.7	
14:54:50	2.1281	491.078	67.7	
15:02:16	2.2519	492.887	67.7	
15:09:50	2.3781	494.671	67.7	
15:17:16	2.5019	496.422	67.7	
15:24:50	2.6281	498.148	67.7	
15:32:16	2.7519	499.811	67.7	
15:39:50	2.8781	501.475	67.7	
15:43:47	2.9439	502.337	67.7	
15:51:21	3.0700	503.937	67.7	
15:58:47	3.1939	505.516	67.7	
16:06:21	3.3200	507.091	67.7	
16:13:47	3.4439	508.584	67.7	
16:21:21	3.5700	510.107	67.7	
16:28:47	3.6939	511.554	67.7	
16:36:21	3.8200	513.049	67.7	
16:43:47	3.9439	514.461	67.7	
16:51:21	4.0700	515.918	67.7	
16:58:47	4.1939	517.305	67.7	
17:06:21	4.3200	518.738	67.7	
17:13:47	4.4439	520.086	67.7	
17:21:21	4.5700	521.456	67.7	
17:28:47	4.6939	522.784	67.7	
17:36:21	4.8200	524.129	67.7	
17:43:47	4.9439	525.419	67.7	
17:51:21	5.0700	526.698	67.7	
17:58:47	5.1939	527.986	67.7	
18:06:21	5.3200	529.250	67.7	
18:13:47	5.4439	530.495	67.7	

50127

Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.4

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
<hr/>				
23-Dec-95		Data Print Frequency: 50		
18:21:21	5.5700	531.752	67.7	
18:28:47	5.6939	532.961	67.7	
18:36:21	5.8200	534.188	67.7	
18:43:47	5.9439	535.386	67.7	
18:51:21	6.0700	536.589	67.7	
18:58:47	6.1939	537.743	67.7	
19:06:21	6.3200	538.924	67.7	
19:13:47	6.4439	540.065	67.7	
19:21:21	6.5700	541.224	67.7	
19:28:47	6.6939	542.342	67.7	
19:36:21	6.8200	543.481	67.7	
19:43:47	6.9439	544.600	67.7	
20:40:29	7.8889	552.579	67.7	
21:36:17	8.8189	559.980	67.7	
22:32:59	9.7639	567.071	67.6	
23:28:47	10.6939	573.671	67.7	
24-Dec-95				
00:25:29	11.6389	580.006	67.6	
01:21:17	12.5689	585.939	67.6	
02:17:59	13.5139	591.719	67.6	
03:13:47	14.4439	597.149	67.6	
04:10:29	15.3889	602.421	67.6	
05:06:17	16.3189	607.349	67.6	
06:02:59	17.2639	612.179	67.6	
06:58:47	18.1939	616.749	67.6	
07:55:29	19.1389	621.194	67.6	
08:51:17	20.0689	625.408	67.6	
09:47:59	21.0139	629.521	67.6	
10:43:47	21.9439	633.396	67.5	
11:40:29	22.8889	637.170	67.5	
12:36:17	23.8189	640.775	67.5	
13:32:59	24.7639	644.297	67.5	
14:28:47	25.6939	647.628	67.5	
15:25:29	26.6389	650.893	67.5	
16:21:17	27.5689	653.994	67.5	
17:17:59	28.5139	657.008	67.5	
18:13:47	29.4439	659.893	67.5	
19:10:29	30.3889	662.736	67.5	
20:06:17	31.3189	665.433	67.5	
21:02:59	32.2639	668.153	67.5	
21:58:47	33.1939	671.168	67.4	
22:55:29	34.1389	674.200	67.4	
23:51:17	35.0689	677.454	67.4	
25-Dec-95				
00:47:59	36.0139	680.834	67.4	
01:43:47	36.9439	683.590	67.3	

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Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.5

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
<hr/>				
25-Dec-95		Data Print Frequency: 50		
02:40:29	37.8889	686.376	67.3	
03:36:17	38.8189	688.860	67.3	
04:32:59	39.7639	691.478	67.3	
05:28:47	40.6939	694.047	67.3	
06:25:29	41.6389	696.598	67.3	
07:21:17	42.5689	699.024	67.3	
08:17:59	43.5139	701.515	67.3	
09:13:47	44.4439	703.836	67.3	
10:10:29	45.3889	706.152	67.3	
11:06:17	46.3189	708.410	67.3	
11:59:38	47.2081	710.497	67.3	
12:44:16	47.9519	712.303	67.3	
13:29:38	48.7081	714.051	67.3	
14:14:16	49.4519	715.739	67.3	
14:59:38	50.2081	717.419	67.3	
15:44:16	50.9519	719.060	67.3	
16:29:38	51.7081	720.718	67.3	
17:14:16	52.4519	722.295	67.3	
17:59:38	53.2081	723.901	67.3	
18:44:16	53.9519	725.451	67.3	
19:29:38	54.7081	727.057	67.3	
20:14:16	55.4519	728.571	67.3	
20:59:38	56.2081	730.129	67.3	
21:44:16	56.9519	731.616	67.3	
22:29:38	57.7081	733.134	67.3	
23:14:16	58.4519	734.599	67.3	
23:59:38	59.2081	736.033	67.3	
26-Dec-95				
00:44:16	59.9519	737.441	67.3	
01:29:38	60.7081	738.850	67.3	
02:14:16	61.4519	740.233	67.3	
02:59:38	62.2081	741.581	67.3	
03:44:16	62.9519	742.884	67.3	
04:29:38	63.7081	744.213	67.3	
05:14:16	64.4519	745.464	67.3	
05:59:38	65.2081	746.769	67.3	
06:44:16	65.9519	748.048	67.3	
07:29:38	66.7081	749.392	67.3	
08:14:16	67.4519	750.525	67.3	
08:59:38	68.2081	751.707	67.3	
09:44:16	68.9519	752.853	67.3	
10:29:38	69.7081	754.015	67.3	
11:14:16	70.4519	755.121	67.3	
11:59:38	71.2081	756.232	67.3	
12:44:16	71.9519	757.322	67.3	
13:29:38	72.7081	758.385	67.3	

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Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.6

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
<hr/>				
26-Dec-95		Data Print Frequency: 50		
14:14:16	73.4519	759.435	67.3	
14:59:38	74.2081	760.485	67.3	
15:44:16	74.9519	761.486	67.3	
16:29:38	75.7081	762.536	67.3	
17:14:16	76.4519	763.498	67.3	
17:59:38	77.2081	764.476	67.3	
18:44:16	77.9519	765.443	67.3	
19:29:38	78.7081	766.377	67.3	
20:14:16	79.4519	767.363	67.3	
20:59:38	80.2081	768.280	67.3	
21:44:16	80.9519	769.221	67.3	
22:29:38	81.7081	770.140	67.3	
23:14:16	82.4519	771.036	67.2	
23:59:38	83.2081	771.937	67.3	
27-Dec-95				
00:44:16	83.9519	772.829	67.2	
01:29:38	84.7081	773.707	67.2	
02:14:16	85.4519	774.561	67.2	
02:59:38	86.2081	775.416	67.2	
03:44:16	86.9519	776.272	67.2	
04:29:38	87.7081	777.100	67.2	
05:14:16	88.4519	777.919	67.2	
05:59:38	89.2081	778.726	67.2	
06:44:16	89.9519	779.517	67.2	
07:29:38	90.7081	780.309	67.2	
07:46:22	90.9869	780.630	67.2	
07:50:05	91.0489	780.688	67.2	
07:53:52	91.1119	780.733	67.2	
07:57:35	91.1739	780.822	67.2	
08:01:22	91.2369	780.883	67.2	
08:05:05	91.2989	780.949	67.2	
08:08:52	91.3619	781.011	67.2	
08:12:35	91.4239	781.078	67.2	
08:16:22	91.4869	781.158	67.2	
08:20:05	91.5489	781.207	67.2	
08:23:52	91.6119	781.269	67.2	
08:27:35	91.6739	781.336	67.2	
08:31:22	91.7369	781.394	67.2	
08:35:05	91.7989	781.442	67.2	
08:38:52	91.8619	781.503	67.2	
08:42:35	91.9239	781.593	67.2	
08:46:22	91.9869	781.653	67.2	
08:50:05	92.0489	781.720	67.2	
08:53:52	92.1119	781.781	67.2	
08:57:35	92.1739	781.848	67.2	
09:01:22	92.2369	781.907	67.2	

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Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.7

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS

27-Dec-95		Data Print Frequency: 50		
09:05:05	92.2989	781.971	67.2	
09:08:52	92.3619	782.042	67.2	
09:12:35	92.4239	782.106	67.2	
09:16:22	92.4869	782.168	67.2	
09:20:05	92.5489	782.228	67.2	
09:23:52	92.6119	782.299	67.2	
09:27:35	92.6739	782.341	67.2	
09:31:22	92.7369	782.402	67.2	
09:35:05	92.7989	782.464	67.2	
09:38:52	92.8619	782.528	67.2	
09:42:35	92.9239	782.613	67.2	
09:46:22	92.9869	782.656	67.2	
09:50:05	93.0489	782.720	67.2	
09:53:52	93.1119	782.785	67.2	
09:57:35	93.1739	782.849	67.2	
10:01:22	93.2369	782.917	67.2	
10:05:05	93.2989	782.976	67.2	
10:08:52	93.3619	783.041	67.2	
10:12:35	93.4239	783.084	67.2	
10:16:22	93.4869	783.174	67.2	
10:20:05	93.5489	783.213	67.2	
10:23:52	93.6119	783.298	67.2	
10:27:35	93.6739	783.341	67.2	
10:31:22	93.7369	783.427	67.2	
10:35:05	93.7989	783.469	67.2	
10:38:52	93.8619	783.527	67.2	
10:42:35	93.9239	783.598	67.2	
10:46:22	93.9869	783.656	67.2	
10:50:05	94.0489	783.721	67.2	
10:53:52	94.1119	783.790	67.2	
10:57:35	94.1739	783.855	67.2	
11:01:22	94.2369	783.900	67.2	
11:05:05	94.2989	783.962	67.2	
11:08:52	94.3619	784.029	67.2	
11:12:35	94.4239	784.090	67.2	
11:16:22	94.4869	784.154	67.2	
11:20:05	94.5489	784.197	67.2	
11:23:52	94.6119	784.283	67.2	
11:27:35	94.6739	784.309	67.2	
11:31:22	94.7369	784.390	67.2	
11:35:05	94.7989	784.454	67.2	
11:38:52	94.8619	784.542	67.2	
11:42:35	94.9239	784.582	67.2	
13:06:21	96.3200	785.913	67.2	
15:05:23	98.3039	787.771	67.2	
17:06:21	100.3200	789.630	67.2	

Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.8

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
<hr/>				
27-Dec-95		Data Print Frequency: 50		
19:05:23	102.3039	791.366	67.2	
21:06:21	104.3200	793.115	67.2	
23:05:23	106.3039	794.809	67.2	
28-Dec-95				
01:06:21	108.3200	796.500	67.2	
03:05:23	110.3039	798.127	67.2	
05:06:21	112.3200	799.749	67.2	
07:05:23	114.3039	801.291	67.2	
09:06:21	116.3200	802.855	67.2	
11:05:23	118.3039	804.350	67.2	
13:06:21	120.3200	805.870	67.2	
15:05:23	122.3039	807.299	67.2	
17:06:21	124.3200	808.710	67.2	
19:05:23	126.3039	810.149	67.2	
21:06:21	128.3200	811.518	67.2	
23:05:23	130.3039	812.844	67.2	
29-Dec-95				
01:06:21	132.3200	814.175	67.2	
03:05:23	134.3039	815.502	67.2	
05:06:21	136.3200	816.788	67.2	
07:05:23	138.3039	818.032	67.2	
09:06:21	140.3200	819.273	67.2	
11:05:23	142.3039	820.476	67.2	
12:27:39	143.6750	821.285	67.1	
13:30:53	144.7289	821.864	67.1	
14:35:09	145.8000	822.464	67.1	
15:38:23	146.8539	823.059	67.1	
16:42:39	147.9250	823.708	67.1	
17:45:53	148.9789	824.304	67.1	
18:50:09	150.0500	824.860	67.1	
19:53:23	151.1039	825.440	67.1	
20:57:39	152.1750	826.016	67.1	
22:00:53	153.2289	826.597	67.1	
23:05:09	154.3000	827.074	67.1	
30-Dec-95				
00:08:23	155.3539	827.649	67.1	
01:12:39	156.4250	828.228	67.1	
02:15:53	157.4789	828.786	67.1	
03:20:09	158.5500	829.340	67.1	
04:23:23	159.6039	829.859	67.1	
05:27:39	160.6750	830.417	67.1	
06:30:53	161.7289	830.926	67.1	
07:35:09	162.8000	831.441	67.1	
08:38:23	163.8539	831.962	67.1	
09:42:39	164.9250	832.492	67.1	
10:45:53	165.9789	832.987	67.1	

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Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.9

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
30-Dec-95		Data Print Frequency: 50		
11:50:09	167.0500	833.507	67.1	
12:53:23	168.1039	833.994	67.1	
13:57:39	169.1750	834.482	67.1	
15:00:53	170.2289	834.977	67.1	
16:05:09	171.3000	835.493	67.1	
17:08:23	172.3539	835.963	67.1	
18:12:39	173.4250	836.437	67.1	
19:15:53	174.4789	836.913	67.1	
20:20:09	175.5500	837.368	67.1	
21:23:23	176.6039	837.852	67.1	
22:27:39	177.6750	838.309	67.1	
23:30:53	178.7289	838.758	67.1	
31-Dec-95				
00:35:09	179.8000	839.202	67.1	
01:38:23	180.8539	839.651	67.1	
02:42:39	181.9250	840.108	67.1	
03:45:53	182.9789	840.520	67.1	
04:50:09	184.0500	840.971	67.1	
05:53:23	185.1039	841.362	67.1	
06:57:39	186.1750	841.812	67.1	
07:45:50	186.9781	842.152	67.1	
07:53:16	187.1019	842.216	67.1	
08:00:50	187.2281	842.253	67.1	
08:08:16	187.3519	842.299	67.1	
08:15:50	187.4781	842.332	67.1	
08:23:16	187.6019	842.403	67.1	
08:30:50	187.7281	842.446	67.1	
08:38:16	187.8519	842.489	67.1	
08:39:21		RIH w/ pulling tool		
08:39:21	187.8700	842.513		
		*** End of Period 2 ***		

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Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.10

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D TIME (hr)	PRESSURE (psi)	TEMP (F)	COMMENTS
31-Dec-95		Data Print Frequency: 10		
		*** Start of Period 3 ***		
08:39:28	0.0019	841.483	67.1	
08:41:02	0.0281	841.607	67.1	
08:42:28	0.0519	841.704	67.1	
08:44:02	0.0781	841.719	67.1	
08:45:28	0.1019	841.694	67.1	
08:47:02	0.1281	842.165	67.1	
08:47:59				POOH making gradient stops
08:48:28	0.1519	833.141	67.0	
08:50:02	0.1781	833.351	66.9	
08:51:28	0.2019	833.404	66.9	
08:53:02	0.2281	808.966	66.6	
08:54:28	0.2519	809.495	66.5	
08:56:02	0.2781	806.922	66.5	
08:57:28	0.3019	780.268	66.1	
08:59:02	0.3281	780.763	66.0	
09:00:28	0.3519	776.282	65.9	
09:02:02	0.3781	747.188	65.6	
09:03:28	0.4019	747.552	65.4	
09:05:02	0.4281	743.737	65.4	
09:06:28	0.4519	742.348	65.3	
09:08:02	0.4781	742.384	65.2	
09:09:28	0.5019	740.136	65.1	
09:11:02	0.5281	732.293	64.1	
09:12:28	0.5519	728.741	63.0	
09:14:02	0.5781	723.506	61.8	
09:15:28	0.6019	718.173	60.5	
09:17:02	0.6281	712.385	58.9	
09:18:28	0.6519	703.193	57.0	
09:20:02	0.6781	700.644	54.8	
09:21:28	0.7019	696.734	52.9	
09:23:02	0.7281	691.489	50.7	
09:24:28	0.7519	677.833	48.3	
09:26:02	0.7781	688.307	44.4	
09:27:28	0.8019	689.221	41.9	
09:29:02	0.8281	689.668	40.0	
09:29:45				Blow down lubricator
09:30:00				RD W/L unit
09:30:14				
09:30:14	0.8481	18.322		
		*** End of Period 3 ***		
		Data Print Frequency: 20		
09:30:21		21.501	37.5	
09:33:21		27.484	33.4	
09:36:21		28.701	32.3	
09:39:21		29.399	33.0	

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Date: 23 DEC 95

Ticket No: 928260

Page No: 3.1.11

PRESSURE VS TIME

GRC gauge no.: 77444
Memory Recorder No.:

Gauge Depth: 3040.00 ft

TIME HH:MM:SS	D (hr)	TIME (psi)	PRESSURE (F)	TEMP (F)	COMMENTS
31-Dec-95			Data Print Frequency: 20		
09:42:21		38.105	32.4		
09:45:21		39.759	31.1		
09:48:35		34.912	34.1		
09:51:35		34.731	36.3		
09:53:30		34.800	37.5		
09:56:30		34.473	39.2		
09:59:30		29.996	55.6		
10:00:00					Job completed

Gunther
50127

STATE OF MICHIGAN



JOHN ENGLER, Governor
DEPARTMENT OF ENVIRONMENTAL QUALITY
HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973
RUSSELL J. HARDING, Director

REPLY TO:

GEOLOGICAL SURVEY DIVISION
735 E HAZEL ST
PO BOX 30256
LANSING MI 48909-7756

April 4, 1996

PetroStar Energy
P.O. Box 2410
13561 West Bay Shore
Suite 3000
Traverse City, MI 49685-2410

Dear Sir:

SUBJECT: Tosch & Molson 1-17 HD1, Permit Number 50127, and
Tosch & Molson 1-17 HD2, Permit Number 50127
Deepening Permit Number 2673, Belknap Twp, Presque Isle Co.

A review of our records indicates that you have not submitted the following data which is required by Special Order 2-71, as amended, or by our rules:

1. Initial daily production test data
2. Subsurface pressure test data
3. Gas analysis, and liquid analysis if available

Please provide copies as soon as possible.

If you have questions concerning this request, please contact me.

Sincerely,

Gunther Schmidt

Gunther Schmidt
Senior Engineer
Petroleum Geology and Production Unit
Geological Survey Division
517-334-6930

GS:pps

cc: Mr. Hal Fitch, DEQ
Mr. D. Michael Bricker, DEQ