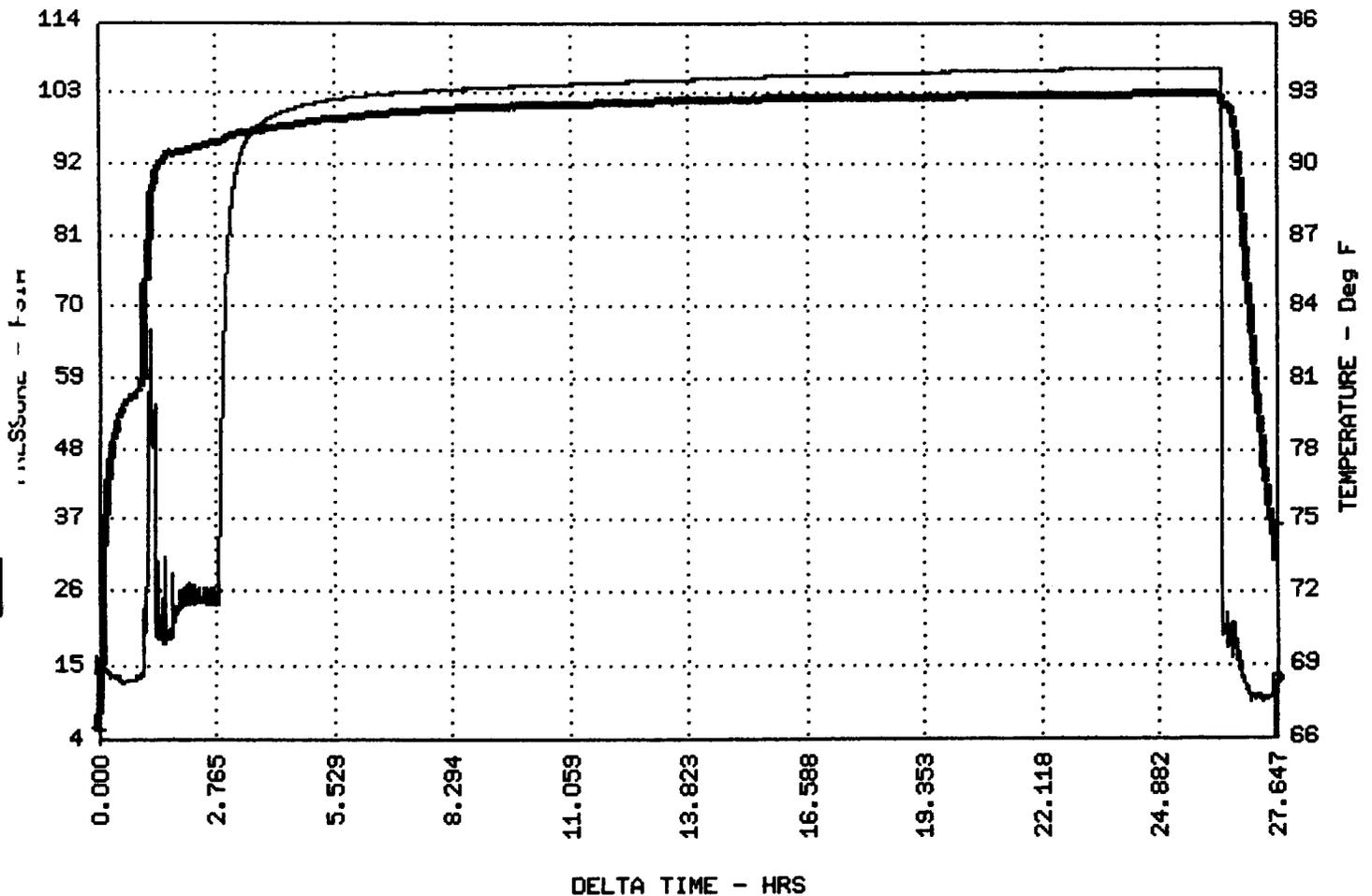


# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. 'A' SAND (2788-2803)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2794'.

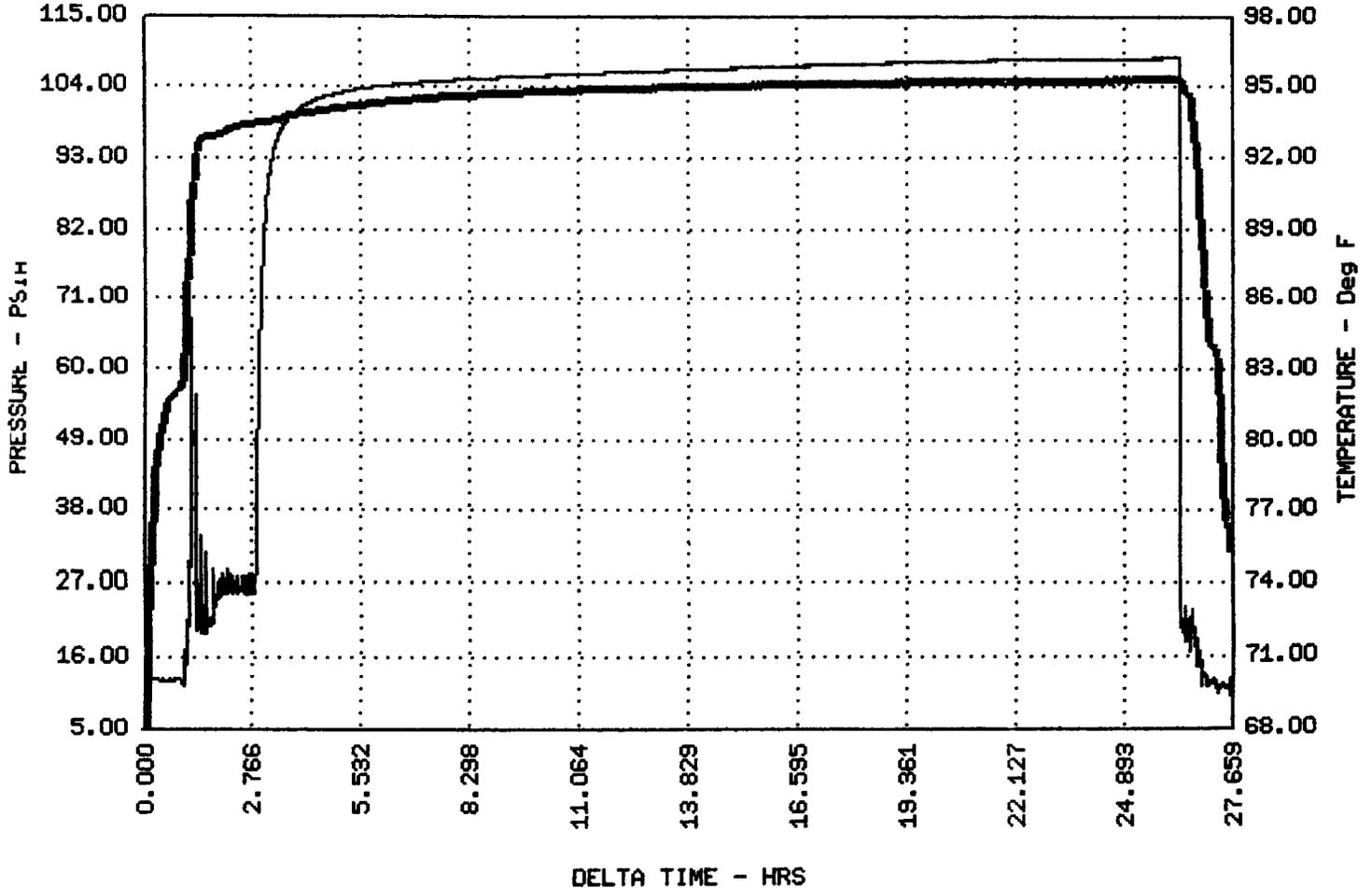
Starting date: 07/28/94  
time: 15:24:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. 'A' SAND (2788-2803)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2798'.

Starting date: 07/28/94  
time: 15:24:03



NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L.L.C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

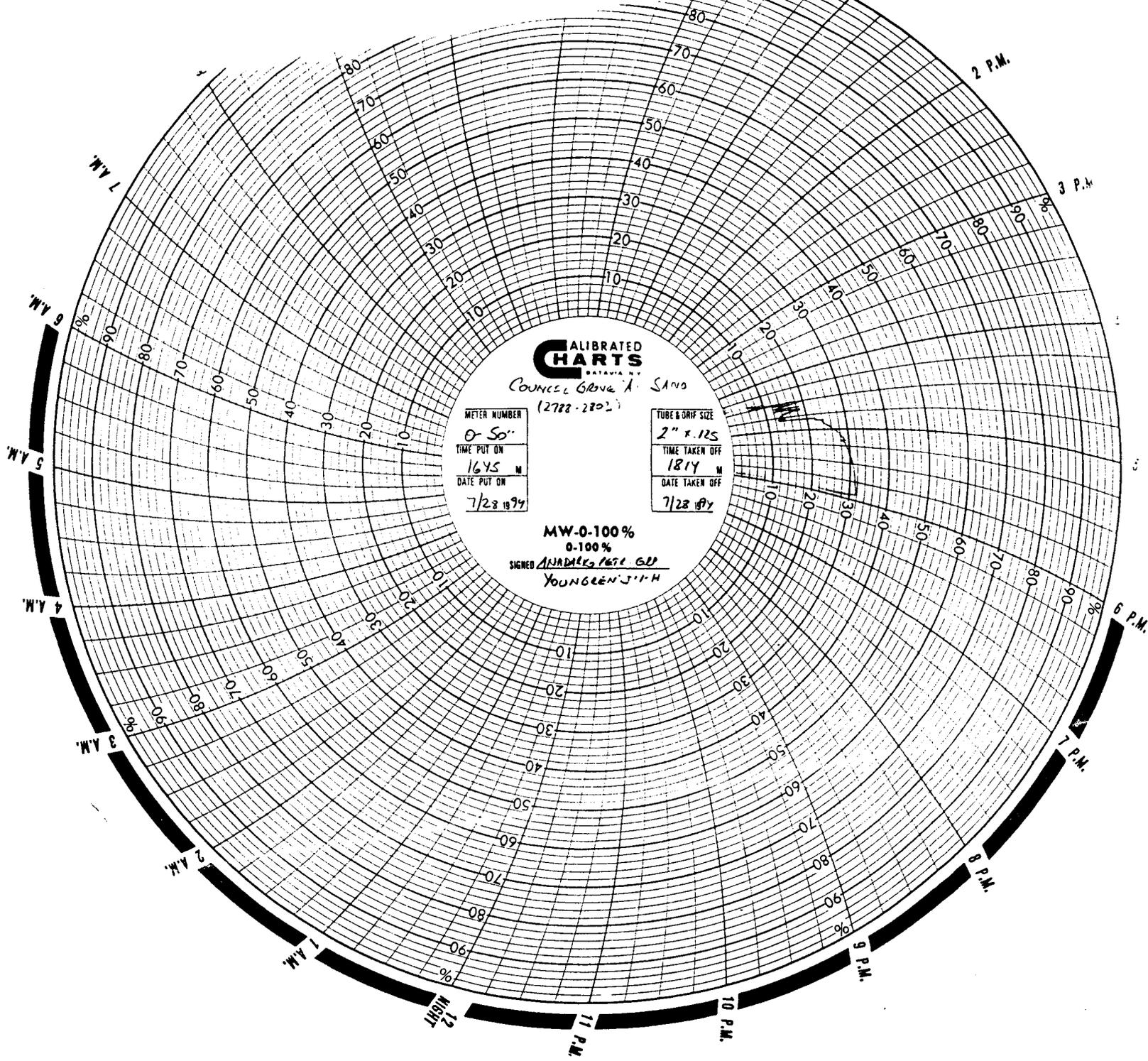
Lab Number: 940375  
 Sample From: Youngren 'J' 1-H DST 16  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 08/01/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Council Gr

'A'

	Mole %	GPM
Helium	He: 0.582	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 13.709	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 73.441	0.000
Ethane	C2: 6.711	1.795
Propane	C3: 3.691	1.017
Iso Butane	iC4: 0.413	0.135
Normal Butane	nC4: 0.960	0.303
Iso Pentane	iC5: 0.182	0.067
Normal Pentane	nC5: 0.185	0.067
Hexanes Plus	C6+: 0.126	0.055
	TOTAL: 100.000	3.438
	Z Fact: 0.9976	
	SP.GR.: 0.7085	
	BTU (SAT): 1006.3 @ 14.73 psia	
	BTU (DRY): 1024.1 @ 14.73 psia	
	OCTANE RATING: 107.5	

COMMENTS:



**ALIBRATED  
CHARTS**  
DISTRIBUTED BY

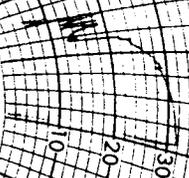
COUNCIL GROVE A. SANDS  
(2722-2723)

METER NUMBER  
0-50"  
TIME PUT ON  
1645 M  
DATE PUT ON  
7/28 1977

TUBE & GRIP SIZE  
2" x .125  
TIME TAKEN OFF  
1814 M  
DATE TAKEN OFF  
7/28 1977

MW-0-100%  
0-100%

SIGNED ANADARKO PETROLEUM  
YOUNGBREN J. H.



**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS. TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7085 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR COUNCIL GROVE  
'A' SAND

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL ANNUAL	SPECIAL RETEST	ENDING DATE	
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.					
THURSDAY 7-28-94																		7-29-94
0850																		
0955																		
1035																		
1100																		
1150																		
1305																		
1524																		
1528																		
1643																		
1645																		
1645																		
1650										7.5		1.33						
1655										8.0		1.46						
1700										8.0		1.38						
1705										7.5		1.33						
1710										12.0		1.68						
1715										13.0		1.76						
1720										13.5		1.79						

REMARKS PERTINENT TO TEST DATA QUALITY

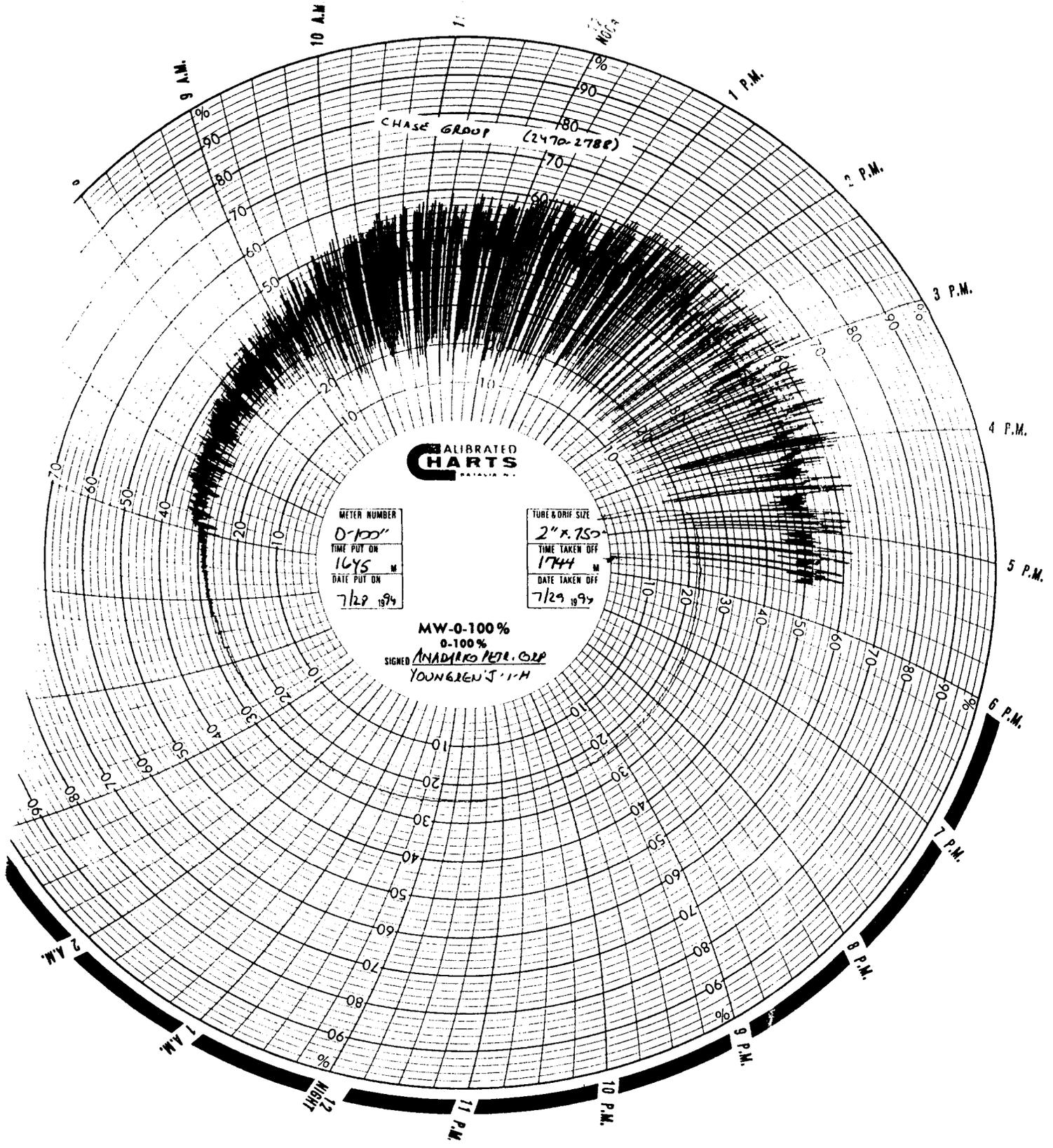
START IN WELL WITH CORE BARREL.  
 CORE BARREL ON BOTTOM.  
 START CORING.  
 FINISH CORING COUNCIL GROVE 'A' SAND (2788-2803).  
 START OUT OF WELL WITH CORE BARREL.  
 CORE BARREL ON SURFACE.  
 POWERED UP GRC EMS-725 INSTRUMENTS  
 START IN WELL WITH INSTRUMENTS.  
 INSTRUMENTS ON BOTTOM.  
 BOTTOM OF TOP PACKER - 2779'  
 BOTTOM OF BOTTOM PACKER - 2787'  
 BOTTOM OF UPPER GAUGE - 2794'  
 BOTTOM OF LOWER GAUGE - 2798'

START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE.

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING DATE
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.				
THURSDAY 7-28-94	(CONTD)																
1725									14.0			1.82					
1730									14.5			1.85					
1735									14.5			1.85					
1740									14.5			1.85					
1745									15.0			1.89					
1750									15.0			1.89					
1755									15.0			1.89					
1800									15.0			1.89					
1805									15.5			1.91					
1810									15.5			1.91					
1814									15.5			1.91					CLOSE DOWNHOLE SHUT-OFF.
FRIDAY 7-29-94																	
1744																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
1859																	INSTRUMENTS ON SURFACE.
1903																	POWERED DOWN GRC EMS-725 INSTRUMENTS.
																	UPPER GAUGE (76095) - YOUCASIU
																	LOWER GAUGE (72289) - YOUCASIL



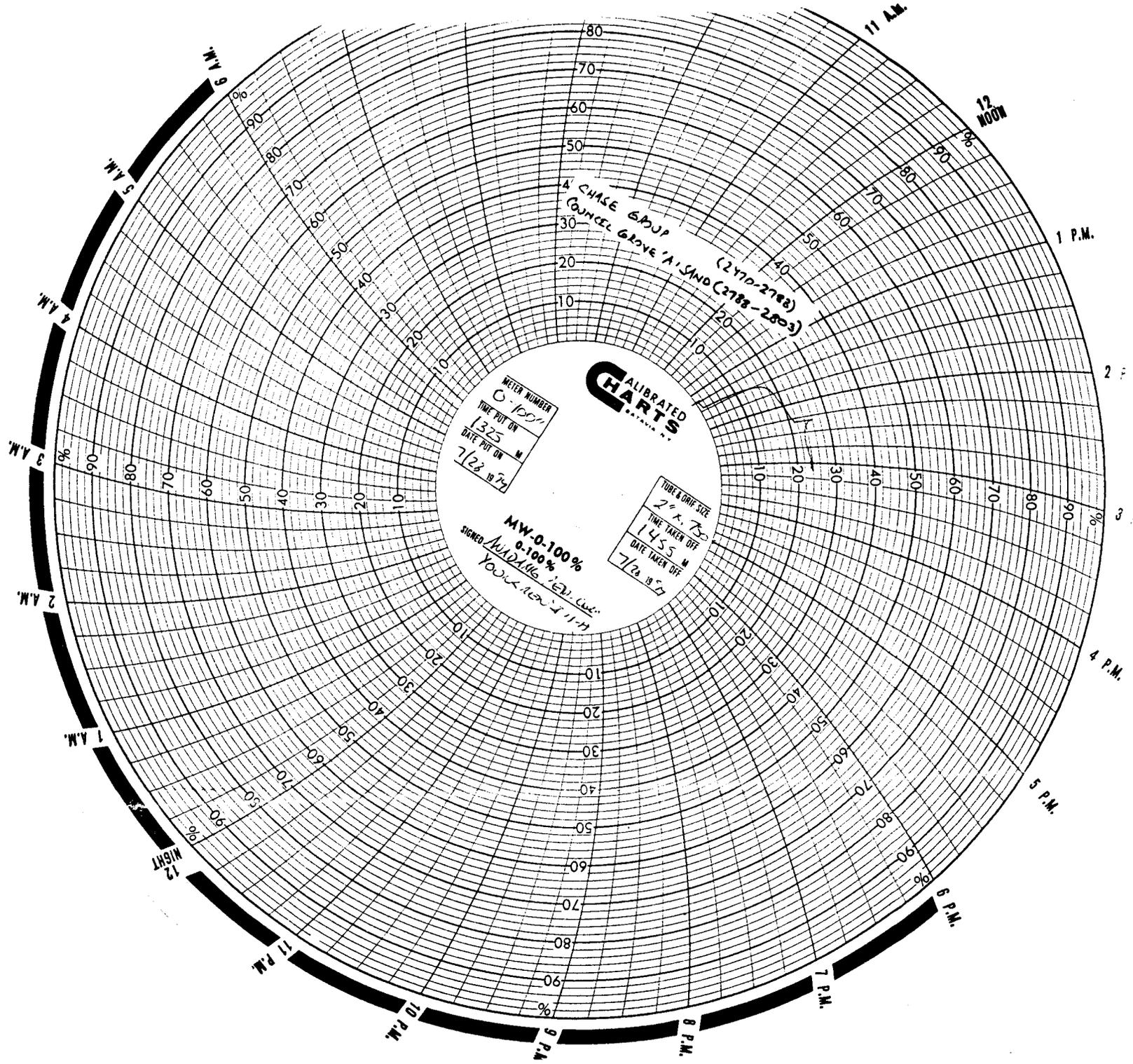
CHASE GROUP (2470-2780)

**CALIBRATED  
CHARTS**

METER NUMBER  
0-100"  
TIME PUT ON  
1645 M  
DATE PUT ON  
7/29 1994

TUBE & DRIF SIZE  
2" x .750"  
TIME TAKEN OFF  
1744 M  
DATE TAKEN OFF  
7/29 1994

MW-0-100%  
0-100%  
SIGNED ANADIRIO PETL. CO.  
YOUNGREN J. I. H.



CHASE GROUP  
COUNCIL GROVE A/SNO (2788-2803)

METER NUMBER  
C-10011  
TIME PUT ON  
1325  
DATE PUT ON  
7/28/57

MW-0-100%  
0-100%  
SIGNED *Middle*  
YOUR HEAD 11-1

**CALIBRATED**  
**CHARTS**

TUBE & DRIP SIZE  
2" x 7/8"  
TIME TAKEN OFF  
1455  
DATE TAKEN OFF  
7/28/57

**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG \_\_\_\_\_ WT \_\_\_\_\_ SET  TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET  SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_  GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE TEST:	INITIAL _____ SPECIAL _____	ENDING DATE	
		CSG PSIG	$\Delta$ P CSG	TBG PSIG	$\Delta$ P TBG	BHP PSIG	$\Delta$ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.				WATER BBL.
THURSDAY 7-28-94																REMARKS PERTINENT TO TEST DATA QUALITY
1325																GAS VOLUMES CORRECTED TO A .720 GRAVITY.
																RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788) AND COUNCIL GROVE 'A' SAND (2788-2803).
1330									14		48.66					
1335									17		53.40					
1340									18		54.95					
1345									19		56.51					
1350									19		56.51					
1355									20		57.97					
1400									20		57.97					
1405									20		57.97					
1410									21		59.38					
1415									24		63.44					
1420									23		62.12					
1425									23		62.12					
1430									23		62.12					
1435									23		62.12					
1440									23		62.12					
1445									23		62.12					
1450									23		62.12					
1455									24		63.44					END FLOW TEST. PREPARE TO RUN DST. #16 (COUNCIL GROVE 'A' SAND).
1645																SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE

Precision Well Testing

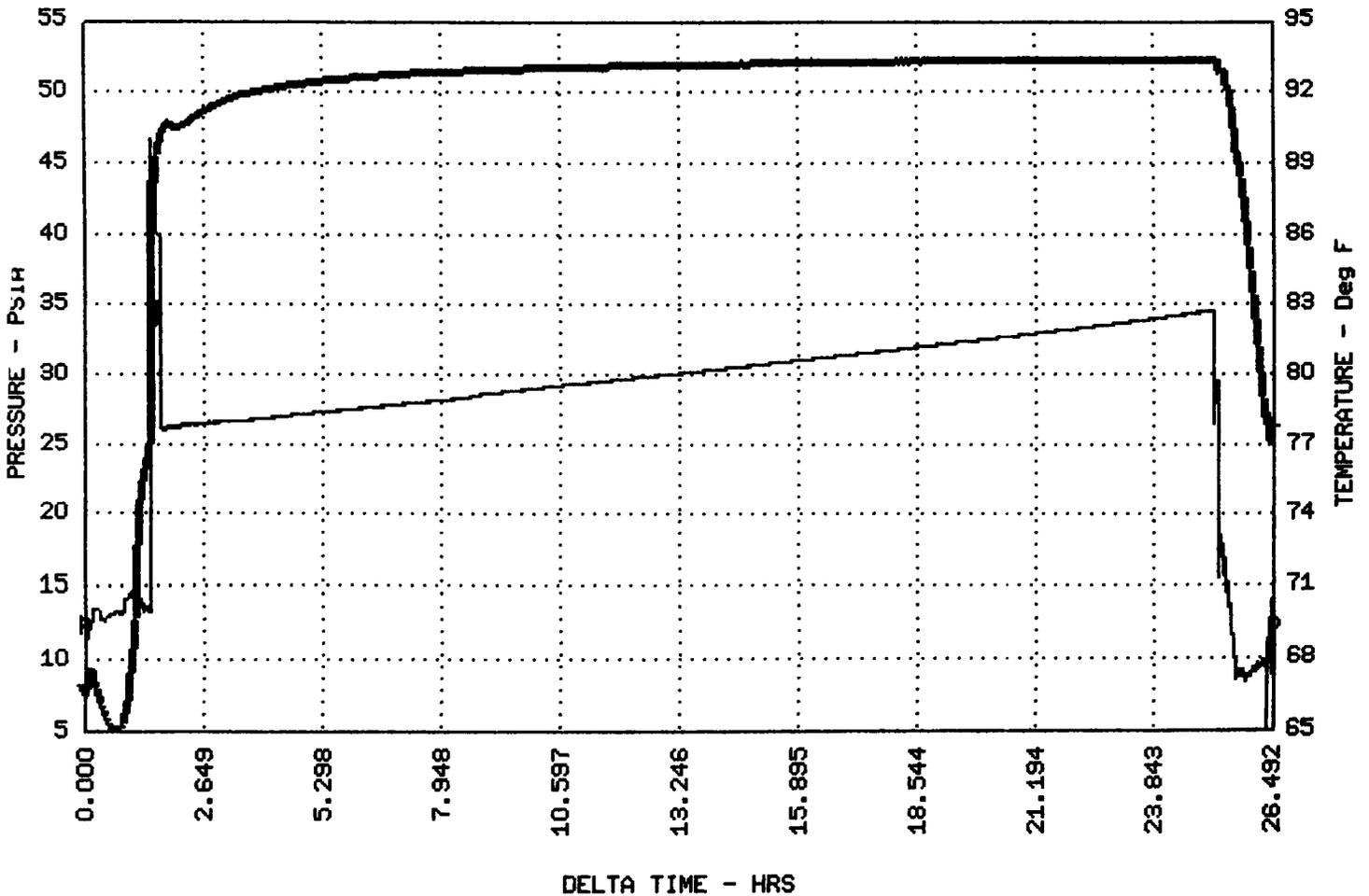
ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____ ANNUAL _____	SPECIAL _____ RETEST _____	ENDING DATE	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.					7-29-94
THURSDAY 7-28-94	(CONTD)																	
1650									21		59.38							
1655									22		60.80							
1700									22		60.80							
1705									22		60.80							
1710									22		60.80							
1715									23		62.12							
1720									23		62.12							
1725									23		62.12							
1730									23		62.12							
1735									23		62.12							
1740									23		62.12							
1745									23		62.12							
1750									23		62.12							
1755									23		62.12							
1800									23		62.12							
1805									23		62.12							
1810									23		62.12							
1814									23		62.12							
FRIDAY 7-29-94																		
1744									51		92.20						RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.	

# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. 'A' LIME (2803-2853)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2818'.

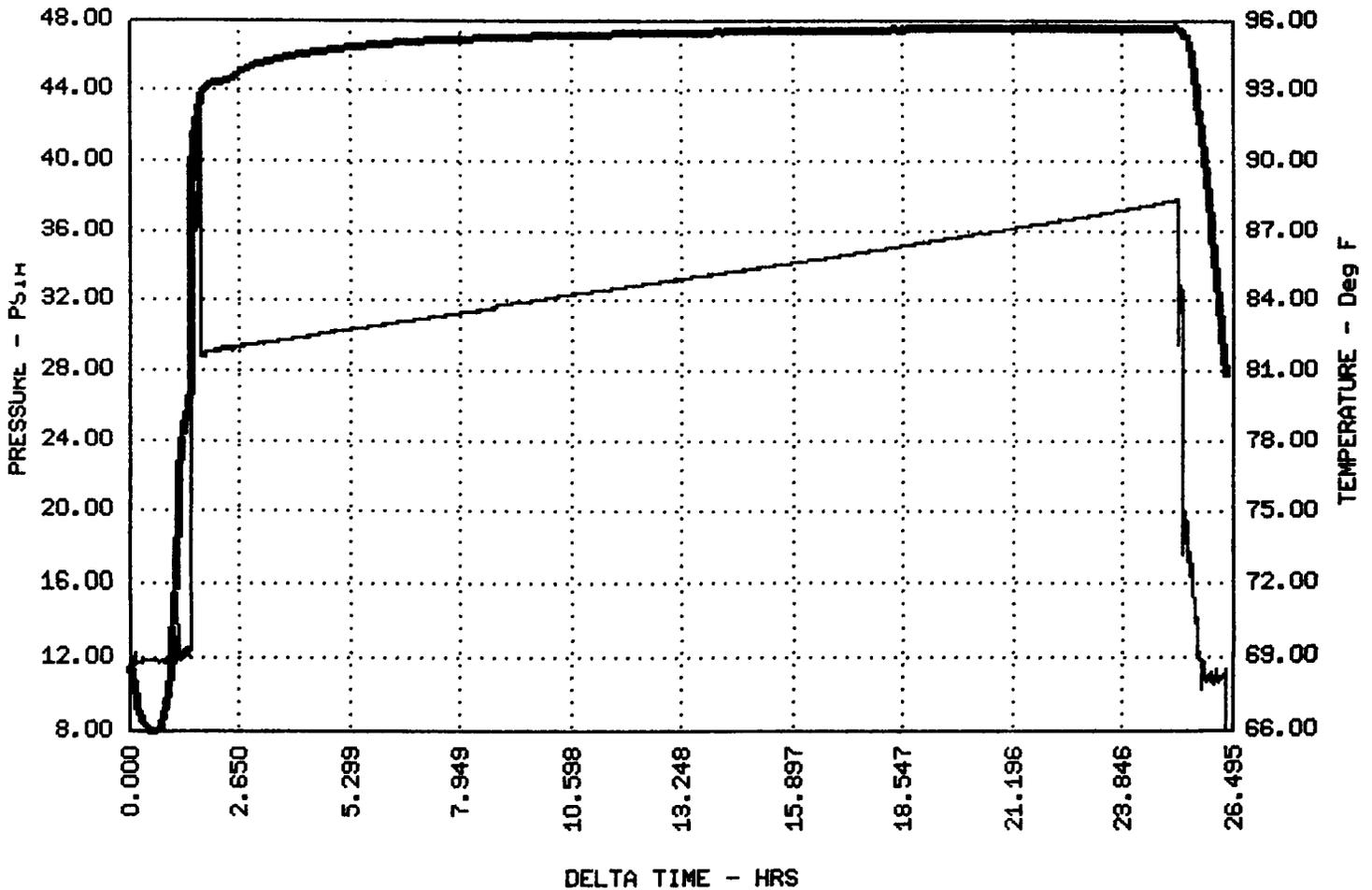
Starting date: 07/30/94  
time: 06:17:00

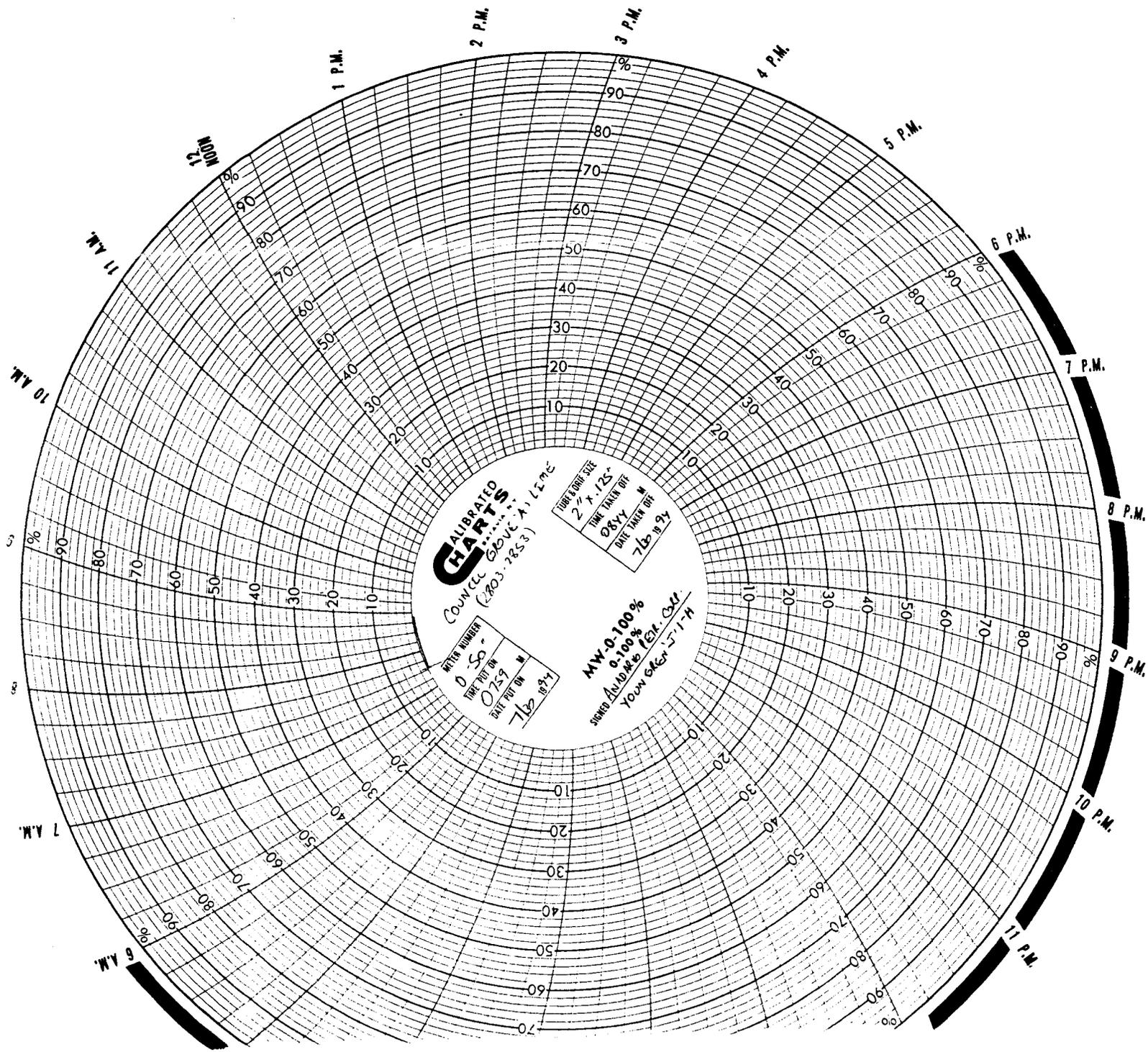


# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. 'A' LIME (2803-2853)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2822'.

Starting date: 07/30/94  
time: 06:17:03





**CALIBRATED CHARTS**  
 COUNCELL GLOBE (2703-7833) L.P.M.C.

WATER NUMBER  
 0 50  
 TIME TEST ON  
 07-29  
 DATE PUT ON M  
 7/6 8/24

TUBE & PIPE SIZE  
 2" A-125  
 TIME TAKEN OFF  
 08:44  
 DATE TAKEN OFF  
 7/6 8/24

MW-0-100%  
 0-100%  
 SINGS AM/D/M/Y  
 YOUW G&EY 5-1-74

**Precision Well Testing**

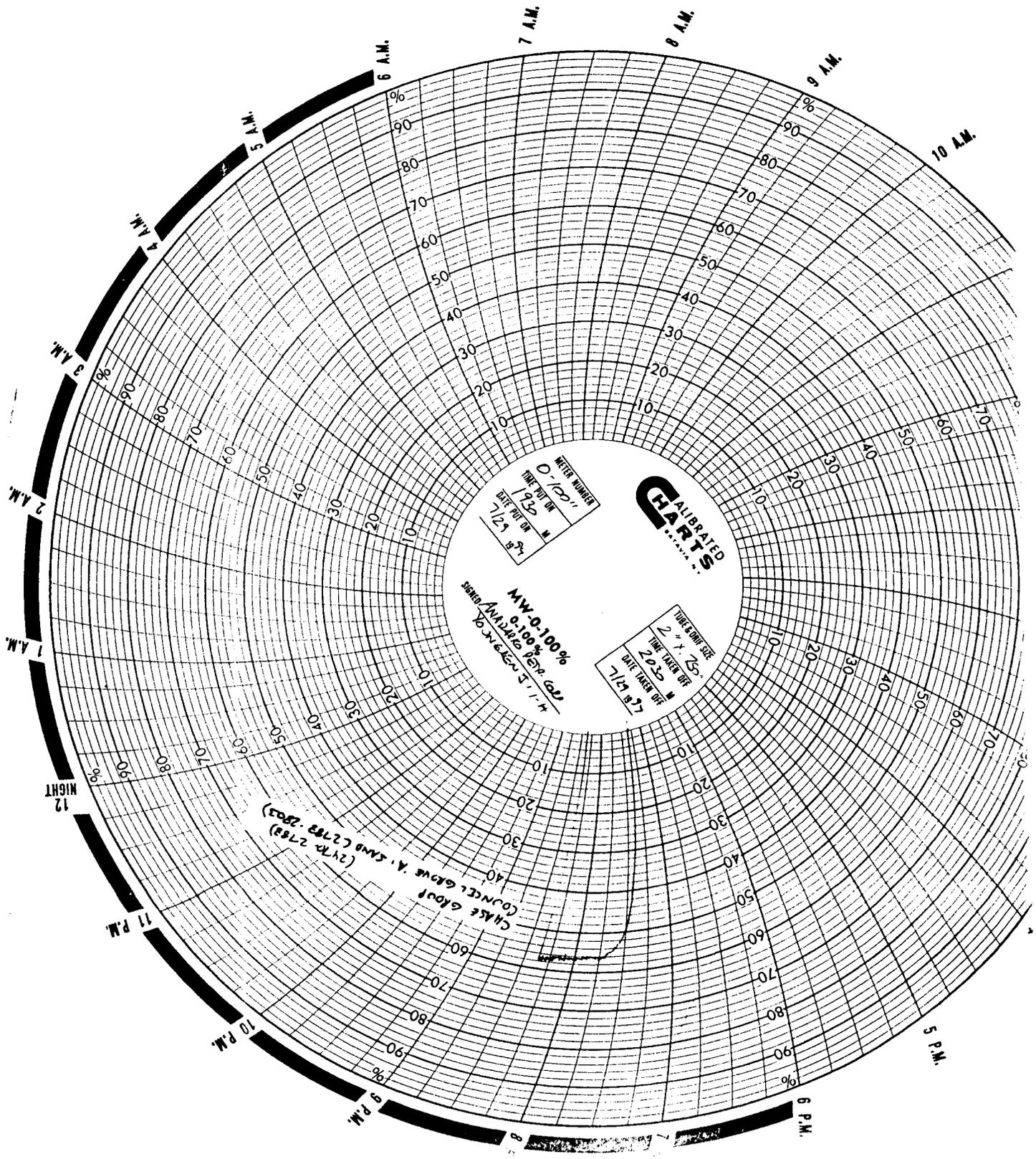
P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET 2435 SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2803 TO 2853 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR COUNCIL GROVE 'A'  
 LIME

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
FRIDAY 7-29-94																	7-31-94
	2055																START IN WELL WITH CORE BARREL.
	2200																CORE BARREL ON BOTTOM.
	2235																START CORING.
SATURDAY 7-30-94																	
	0110																FINISH CORING COUNCIL GROVE 'A' LIME (2803-2853).
	0210																START OUT OF WELL WITH CORE BARREL.
	0315																CORE BARREL ON SURFACE.
	0617																POWERED UP GRC EMS-725 INSTRUMENTS,
	0620																START IN WELL WITH INSTRUMENTS.
	0757																INSTRUMENTS ON BOTTOM.
																	BOTTOM OF TOP PACKER - 2802'
																	BOTTOM OF BOTTOM PACKER - 2808'
																	BOTTOM OF UPPER GAUGE - 2818'
																	BOTTOM OF LOWER GAUGE - 2822'
	0759																SET PACKER.
	0759																START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE.
	0804									0		0					
	0809									0		0					
	0814									0		0					
	0819									0		0					
	0824									0		0					



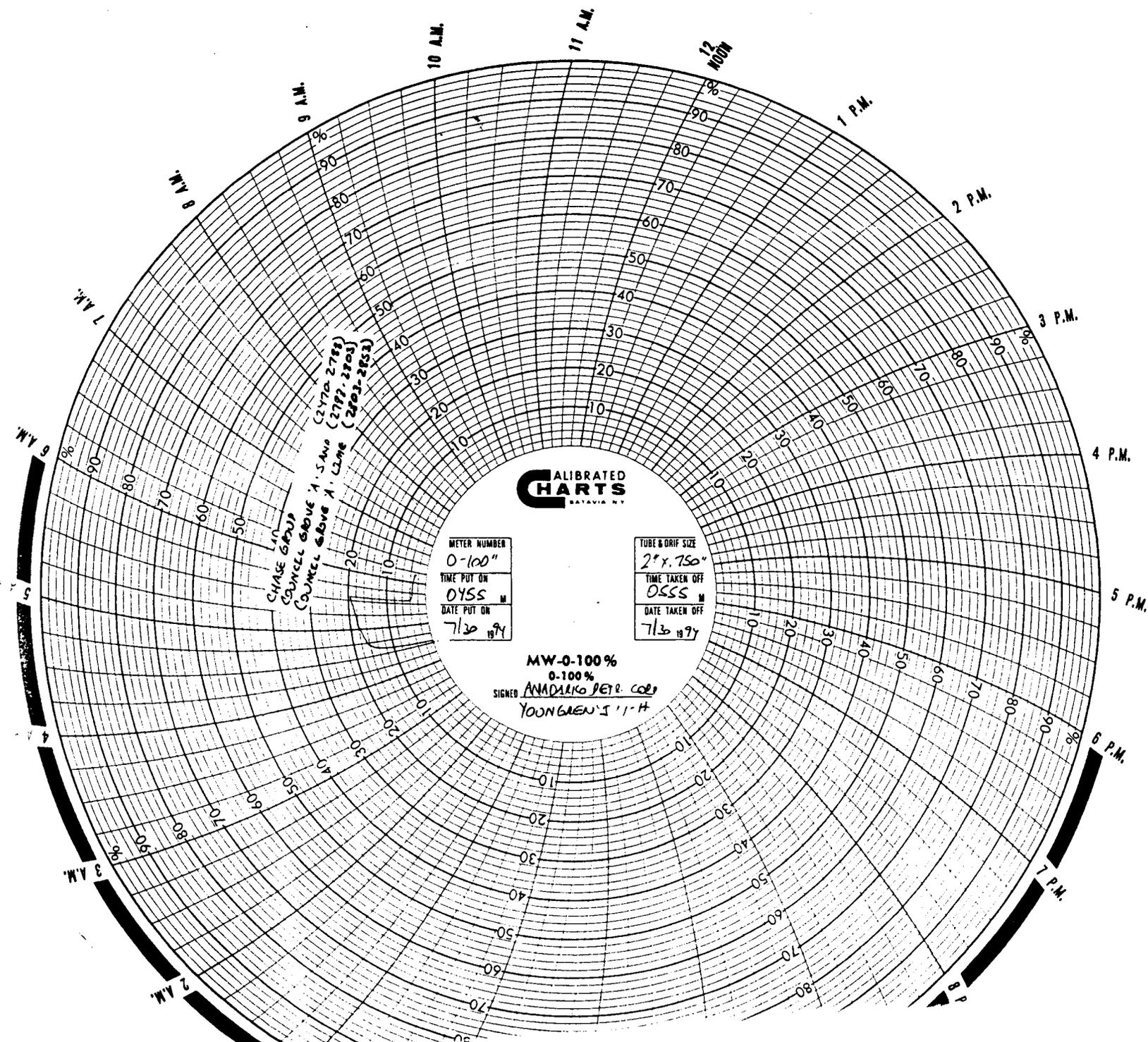


**METER NUMBER**  
 07-10011  
**TIME PUT ON**  
 1935  
**DATE PUT OFF**  
 7/15 37

**TYPE & UNIT SIZE**  
 2" x 75"  
**TIME PUT ON**  
 2025  
**DATE PUT OFF**  
 7/15 37

**MODEL NO. 100%**  
**W.W. 0-100%**  
**9-100% R.H. 100**  
**STANDARD AIR DENSITY 1.2019**

CHASE GROUT  
 COUNCIL GROVE A. SAMP 2782  
 (BY TR 2782)  
 (RBL-2 2782)



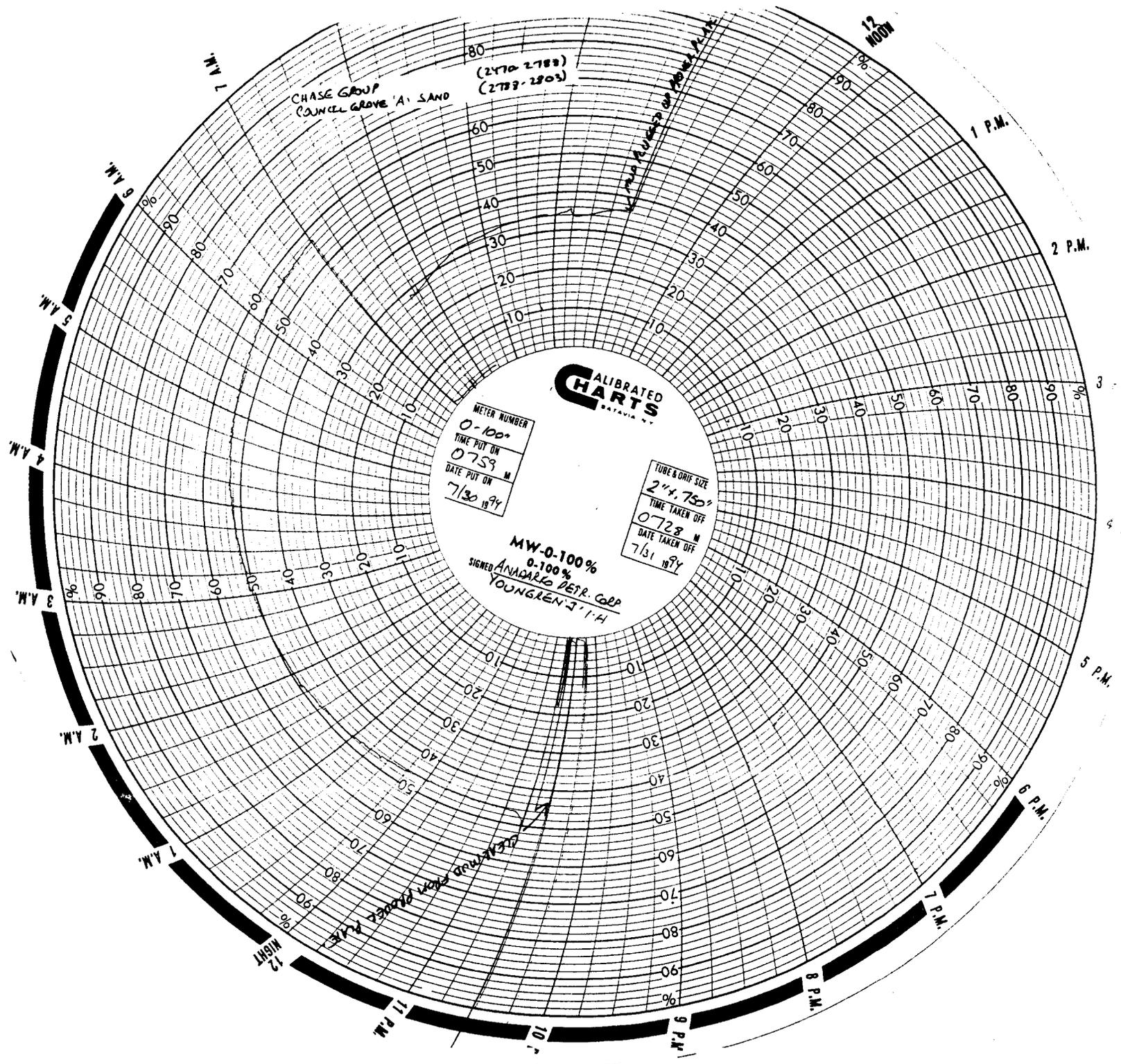
**CALIBRATED  
CHARTS**  
BATAVIA, N.Y.

METER NUMBER  
0-100"  
TIME PUT ON  
0455 M  
DATE PUT ON  
7/30 1974

TUBE & DRIF SIZE  
2" x .750"  
TIME TAKEN OFF  
0555 M  
DATE TAKEN OFF  
7/30 1974

MW-0-100%  
0-100%  
SIGNED ANADAKO PETR. CO.  
YOUNGREN'S I.H.

CHASE GROUP  
COUNCIL ABOVE A. S. No. (2470-2782)  
(2777-2803)  
(2803-2853)



CHASE GROUP  
COUNCIL GROVE 'A' SAND

(2770-2783)  
(2783-2803)

**CALIBRATED  
CHARTS**  
BALTIMORE, MD.

METER NUMBER  
0-100  
TIME PUT ON  
0753  
DATE PUT ON  
7/30 1934

TUBE & DRIVE SIZE  
2" x 75'  
TIME TAKEN OFF  
0723  
DATE TAKEN OFF  
7/31 1934

MW-0-100%  
0-100%  
SIGNED ANADARKO PETR. CORP.  
YOUNGREN J. H.

DISCHARGE RATE 1000 GPM

**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG \_\_\_\_\_ WT \_\_\_\_\_ SET  \_\_\_\_\_ TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET  \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_  \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.	WATER BBLs.	TEST:	ANNUAL	RETEST	DATE
FRIDAY 7-29-94																	7-31-94
														REMARKS PERTINENT TO TEST DATA QUALITY			
1930														GAS VOLUMES CORRECTED TO A .720 GRAVITY			
														RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788) AND COUNCIL GROVE 'A' SAND (2788-2803).			
1935									31		72.16						
1940									48		89.83						
1945									55		95.85						
1950									56		96.76						
1955									56		96.76						
2000									56		96.76						
2005									56		96.76						
2010									56		96.76						
2015									57		97.68						
2020									57		97.68						
2025									57		97.68						
2030									57		97.68						END FLOW TEST. PREPARE TO RUN CORE BARREL.
SATURDAY 7-30-94																	
0455														RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), AND COUNCIL GROVE 'A' LIME (2803-2853).			
0500									14		48.66						
0505									16		51.85						
0510									17		53.40						

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

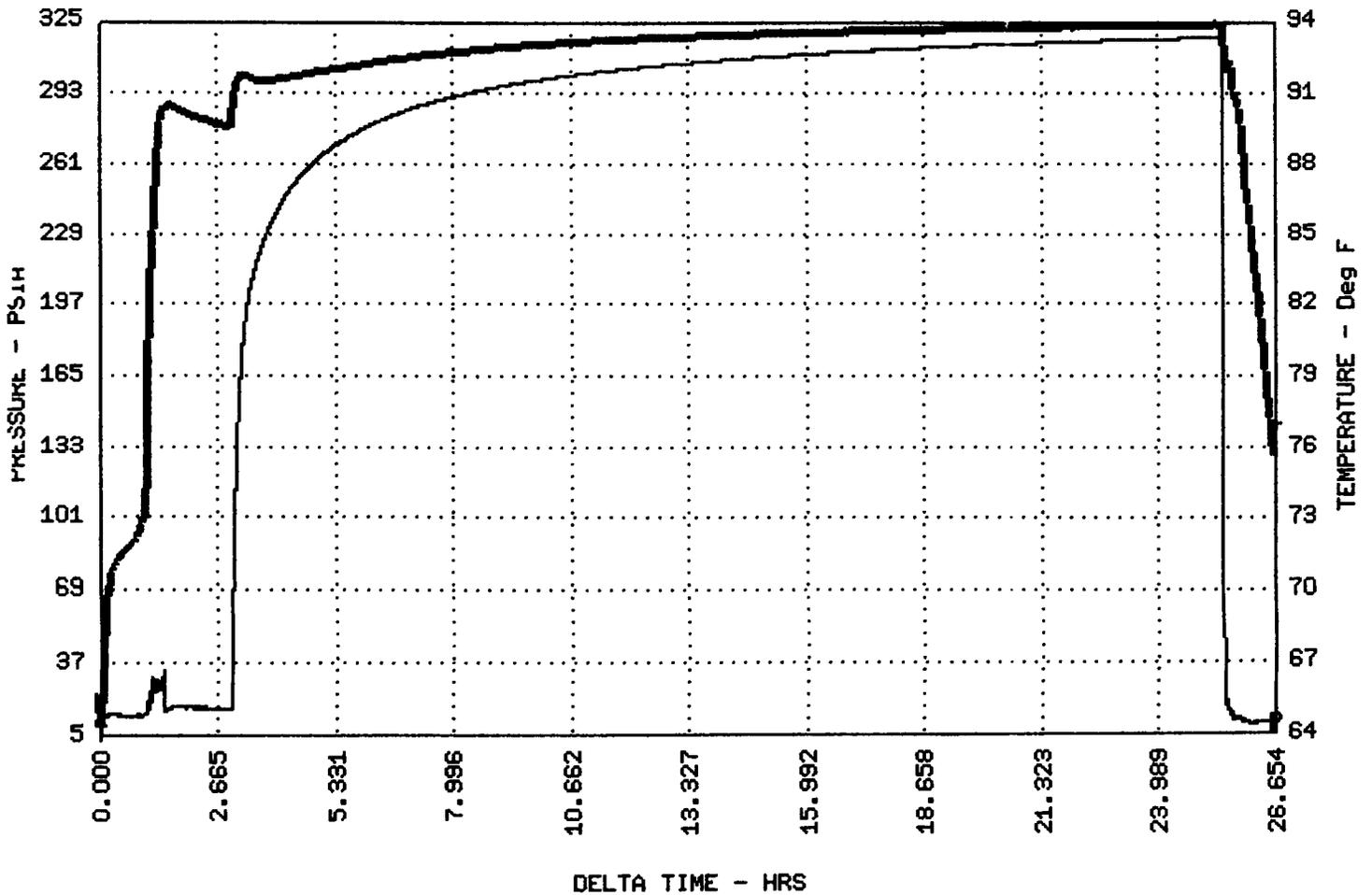
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____ ANNUAL _____	SPECIAL _____ RETEST _____	ENDING DATE	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.					7-31-94
SATURDAY 7-30-94	(CONT'D)														REMARKS PERTINENT TO TEST DATA QUALITY			
0515										17		53.40						
0520										17		53.40						
0525										18		54.95						
0530										18		54.95						
0535										18		54.95						
0540										19		56.51						
0545										19		56.51						
0550										19		56.51						
0555										19		56.51			END FLOW TEST. PREPARE TO RUN DST #17 (COUNCIL GROVE 'A' LIME).			
0759															SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), AND COUNCIL GROVE 'A' SAND (2788-2803).			
0804										29		69.79						
0809										28		68.56						
0814										29		69.79						
0819										30		71.02						
0824										30		71.02						
0829										31		72.16						
0834										32		73.30						
0839										32		73.30						
0844										33		74.44						
2230															PLATE ON PROVER PARTIALLY PLUGGED WITH MUD AT APPROX. 1100. SHUT-IN CASING TO CLEAR MUD. RE-OPEN CASING THROUGH 2" O.W.T. WITH 3/4" PLATE. (COLLAR BELOW BOP IS LEAVING SIGNIFICANT AMOUNT OF GAS).			



# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-1 (2853-2888)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2866'.

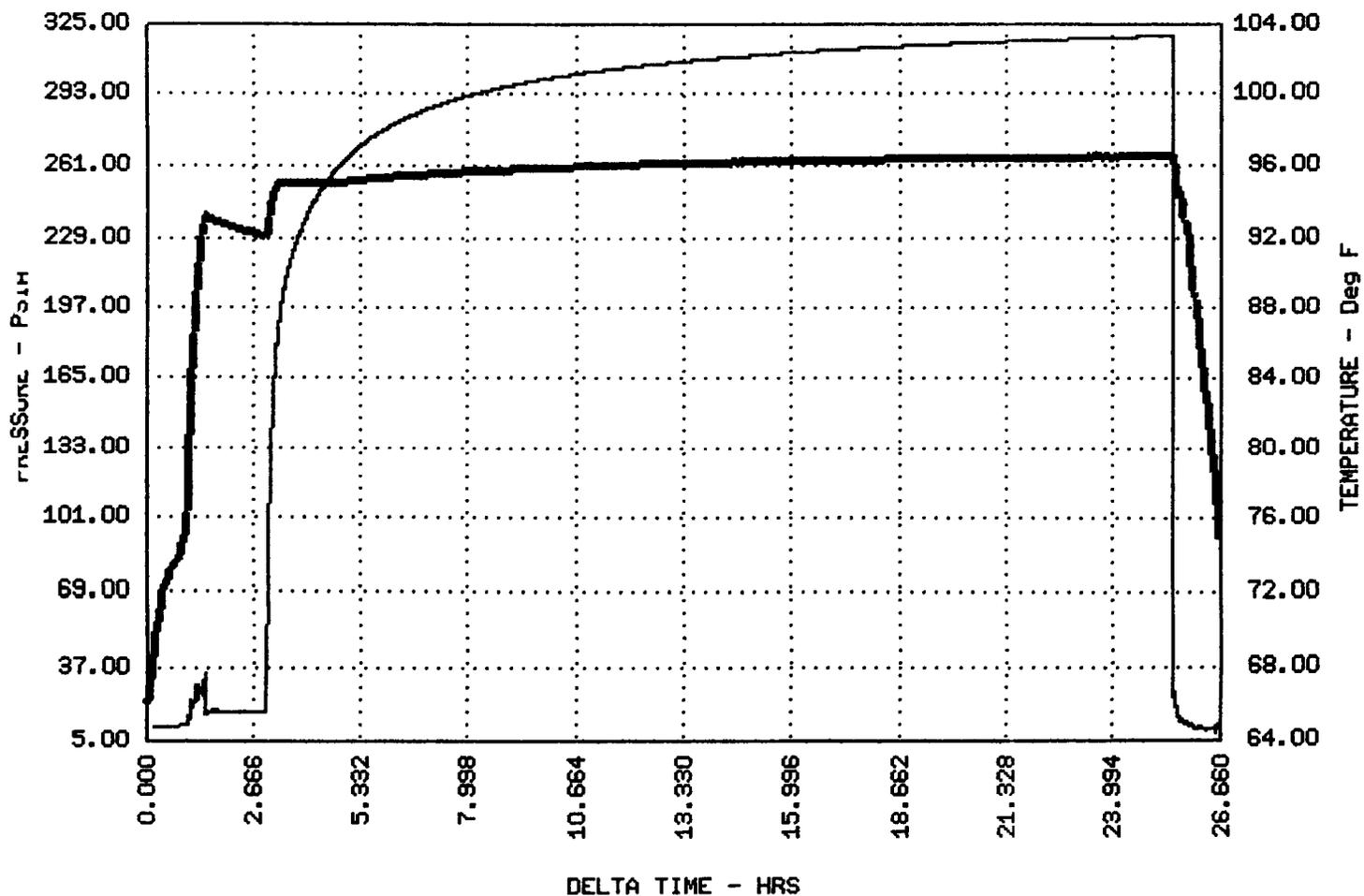
Starting date: 07/31/94  
time: 23:39:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72269  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-1 (2853-2888)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2870'.

Starting date: 07/31/94  
time: 23:39:03



NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L.L.C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

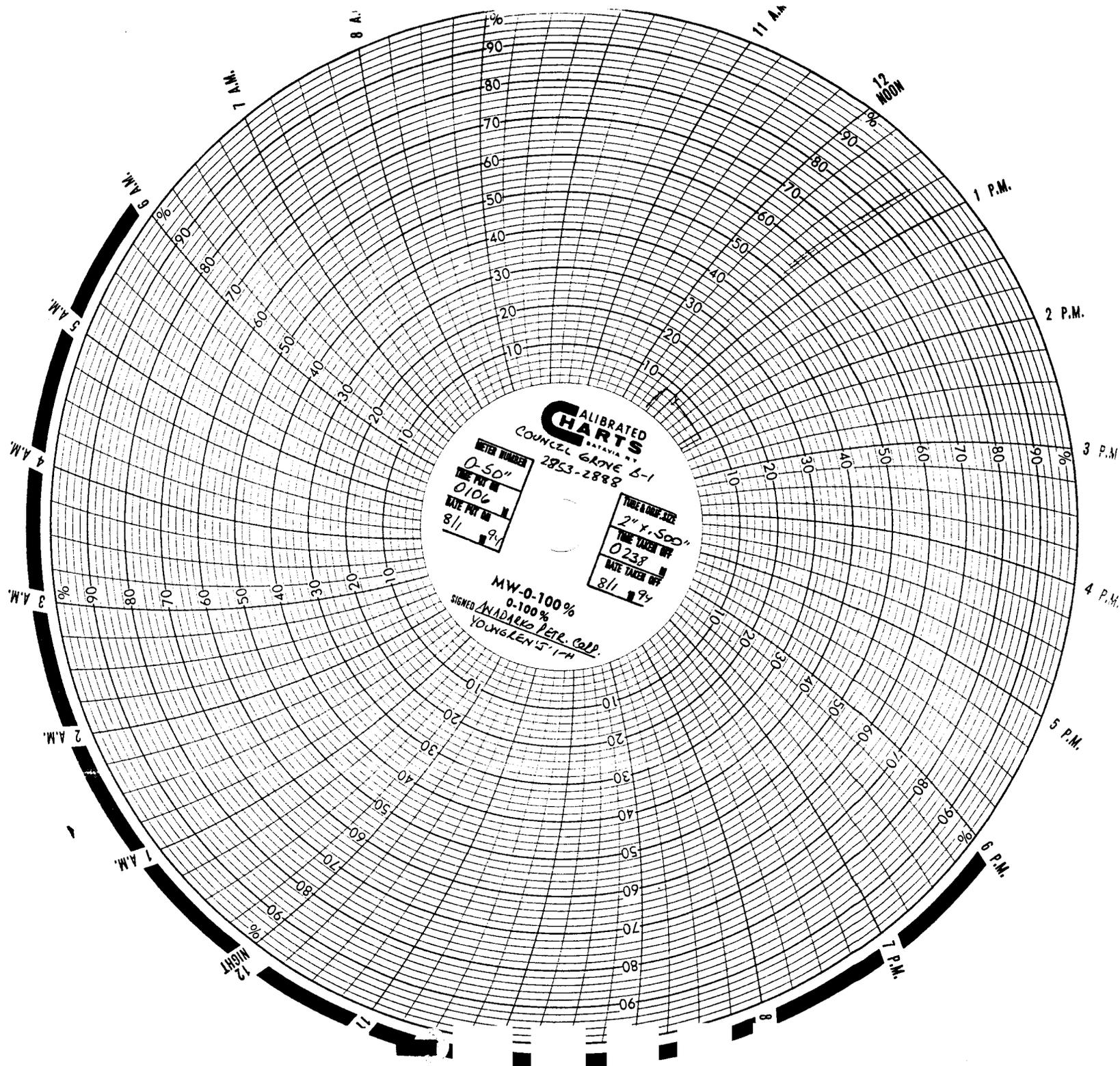
Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

-----  
 Lab Number: 940377  
 Sample From: Youngren 'J' 1-H DST 18  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 08/02/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: C. G. B-1  
 -----

	Mole %	GPM
Helium	He: 0.532	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 15.922	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 72.100	0.000
Ethane	C2: 6.288	1.682
Propane	C3: 3.345	0.922
Iso Butane	iC4: 0.399	0.131
Normal Butane	nC4: 0.873	0.275
Iso Pentane	iC5: 0.176	0.064
Normal Pentane	nC5: 0.192	0.070
Hexanes Plus	C6+: 0.173	0.075
	TOTAL: 100.000	3.219
	Z Fact: 0.9977	
	SP.GR.: 0.7122	
	BTU (SAT): 976.0 @ 14.73 psia	
	BTU (DRY): 993.3 @ 14.73 psia	
	OCTANE RATING: 104.9	

-----  
 COMMENTS:



**CALIBRATED CHARTS**  
BALTIMORE, MD.  
COUNCEL GROVE B-1  
2853-2888

METER NUMBER  
0-50"  
DATE TAKEN OFF  
0106  
DATE TAKEN OFF  
8/1 8/4

TUBE & INCH SIZE  
2" x .500"  
DATE TAKEN OFF  
0238  
DATE TAKEN OFF  
8/1 8/4

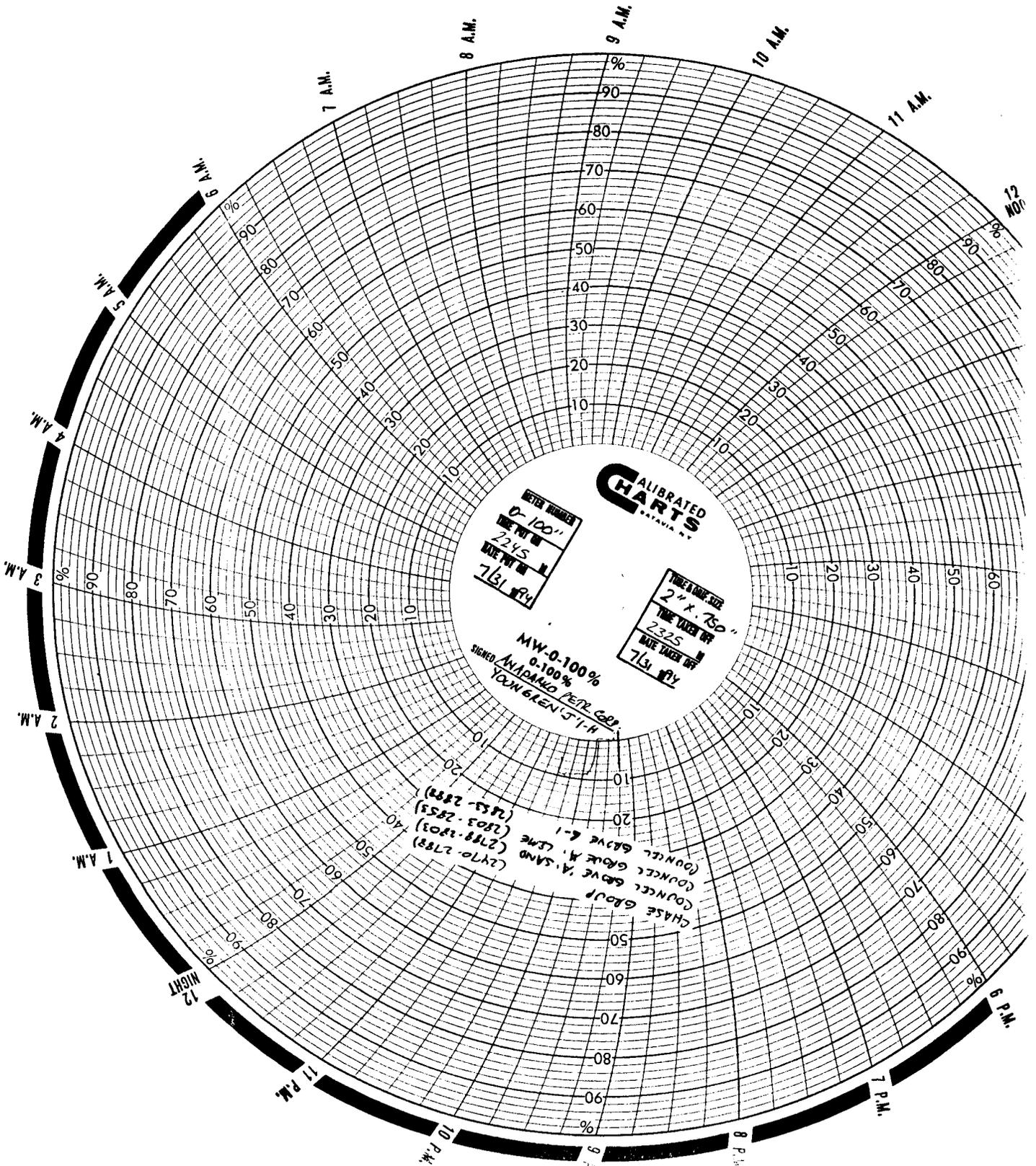
MW-0-100%  
0-100%  
SIGNED ANADAKO FERT. CO. INC.  
YOUNGLEN 5' 11"

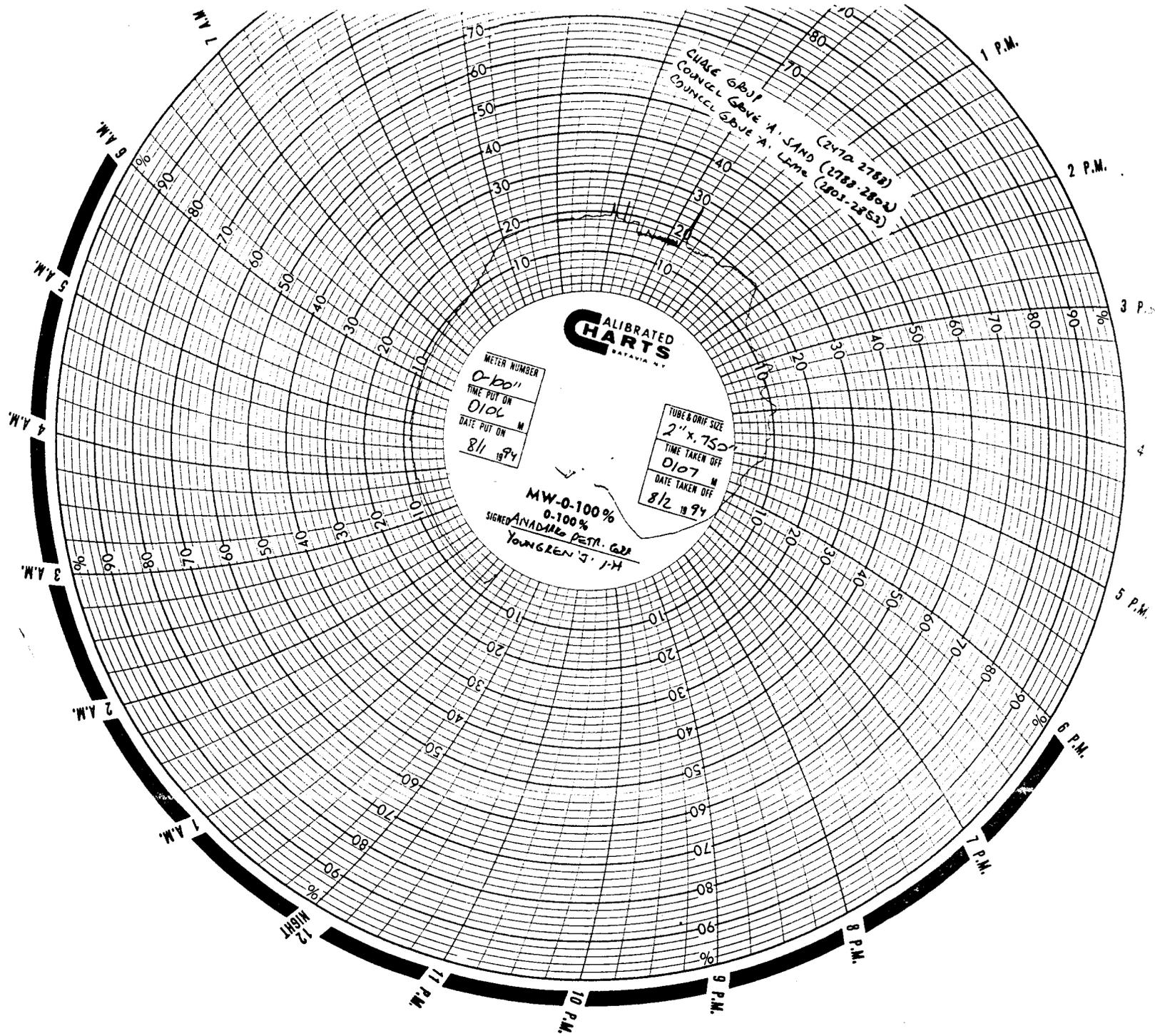


Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE TEST:	INITIAL _____ ANNUAL _____	SPECIAL _____ RETEST _____	ENDING DATE 8-2-94	REMARKS PERTINENT TO TEST DATA QUALITY
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.					
MONDAY 8-1-94	(CON'D)																
0136									3.0		9.95						
0141									3.0		9.95						
0146									3.0		9.95						
0151									3.0		9.95						
0156									3.0		9.95						
0201									3.0		9.95						
0206									3.0		9.95						
0211									3.0		9.95						
0216									3.0		9.95						
0221									3.0		9.95						
0226									3.0		9.95						
0231									3.0		9.95						
0238									3.0		9.95						CLOSE DOWNHOLE SHUT-OFF.
TUESDAY 8-2-94																	
0107																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
0212																	INSTRUMENTS ON SURFACE.
0218																	POWERED DOWN GRC EMS-725 INSTRUMENTS.
																	UPPER GAUGE (76095) - YOUB11U
																	LOWER GAUGE (72205) - YOUB11L





**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG \_\_\_\_\_ WT \_\_\_\_\_ SET  \_\_\_\_\_ TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET  \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_  \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_

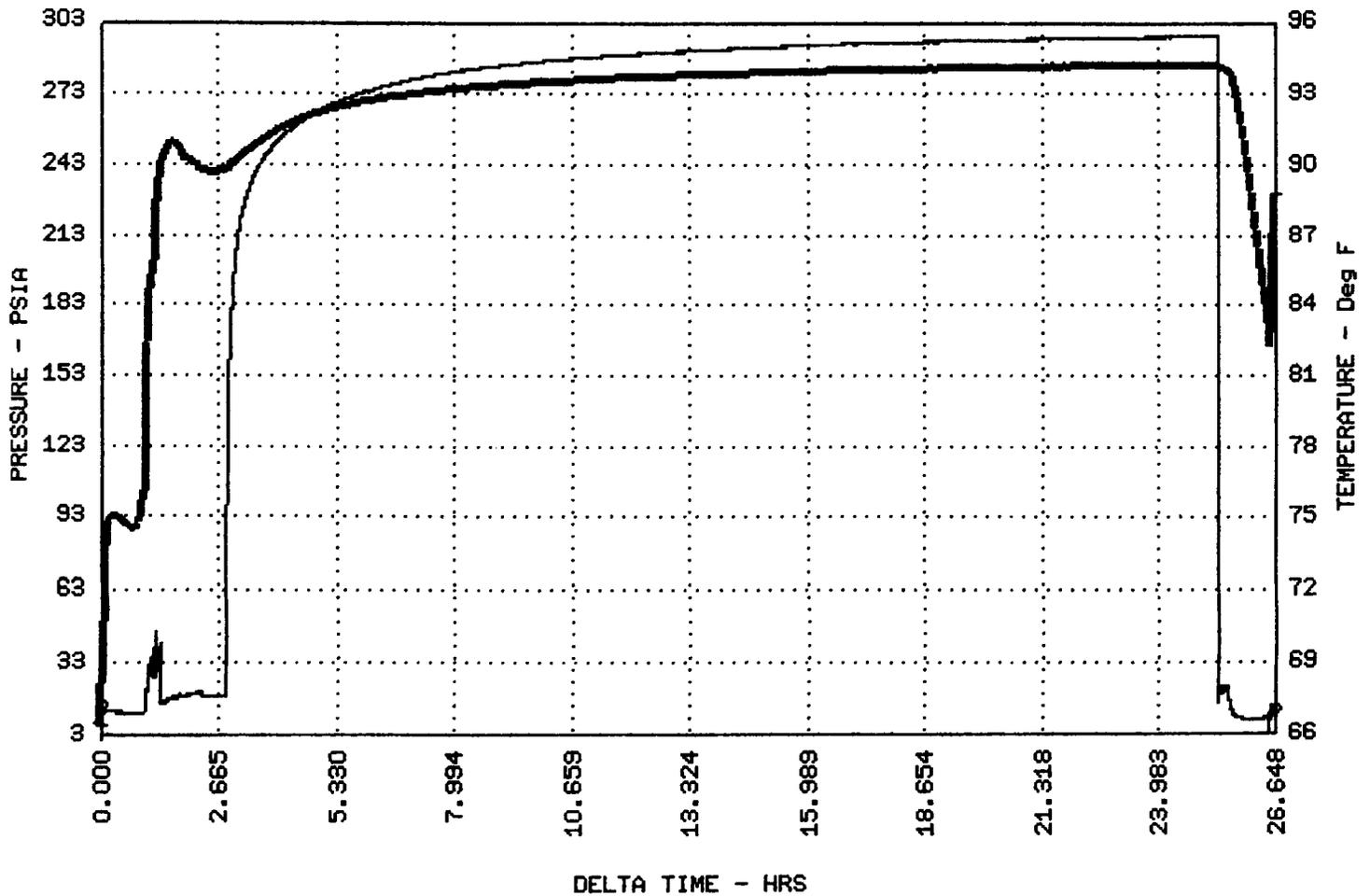
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
SUNDAY 7-31-94																	8-2-94
2245															REMARKS PERTINENT TO TEST DATA QUALITY		
															GAS VOLUMES CORRECTED FROM A .720 GRAVITY.		
															RUN 1 STAND DRILLPIPE IN WELL.		
															INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIME (2803-2853), AND COUNCIL GROVE 'B' I (2853-2888).		
2250									8		36.51						
2255									9		38.80						
2300									9		38.80						
2305									9		38.80						
2310									9		38.80						
2315									9		38.80						
2320									9		38.80						
2325									9		38.80						END FLOW TEST. PREPARE TO RUN DST #18
MONDAY 8-1-94																	
0106																	SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), AND COUNCIL GROVE 'A' (2803-2853).
0111									7		34.14						
0116									7		34.14						
0121									7		34.14						
0126									7		34.14						
0131									7		34.14						
0136									8		34.14						
0141									7		34.14						



# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-2 (2888-2908)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2902'.

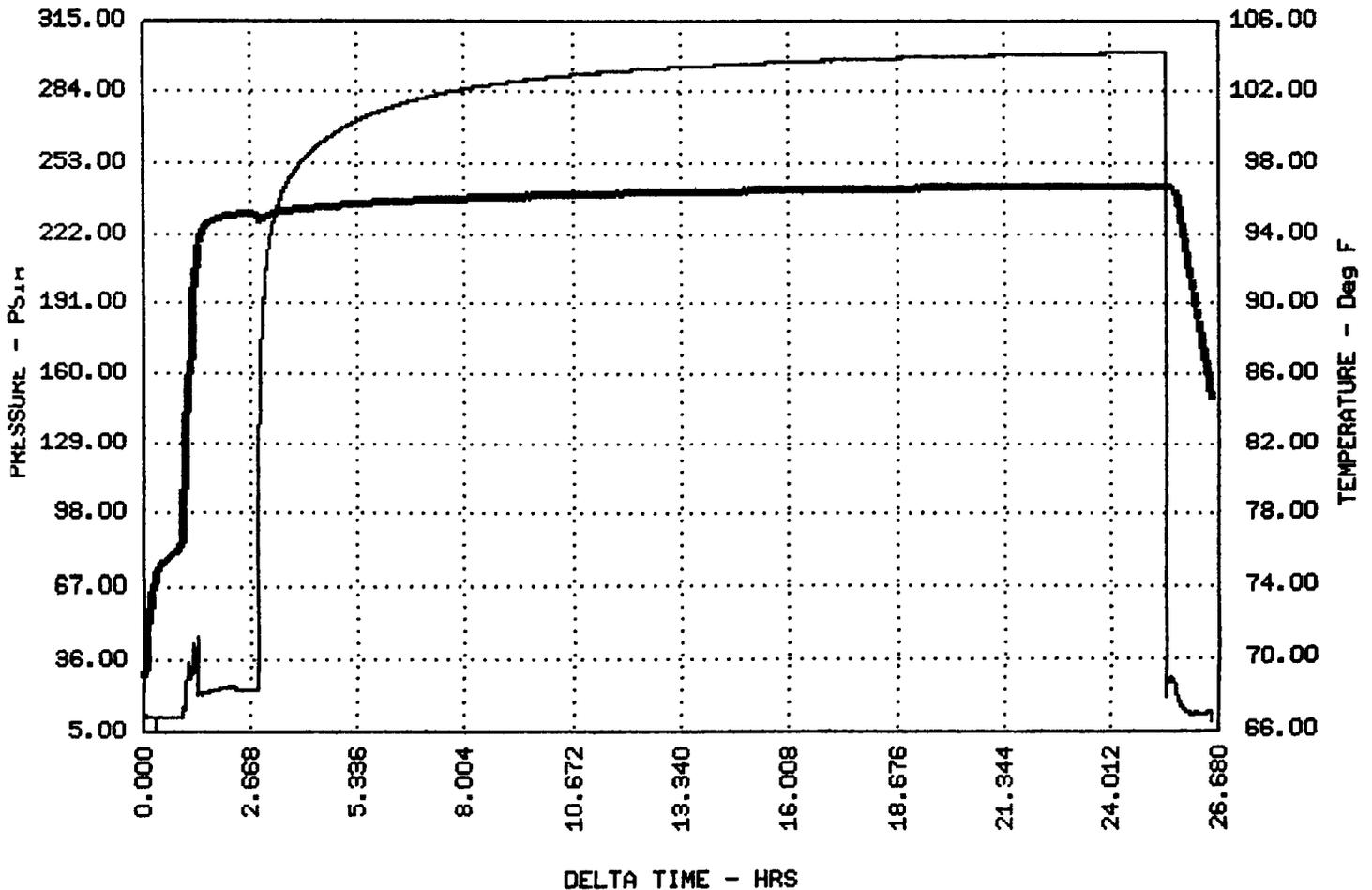
Starting date: 08/02/94  
time: 11:47:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-2 (2888-2908)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2906'.

Starting date: 08/02/94  
time: 11:47:03



NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L.L.C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

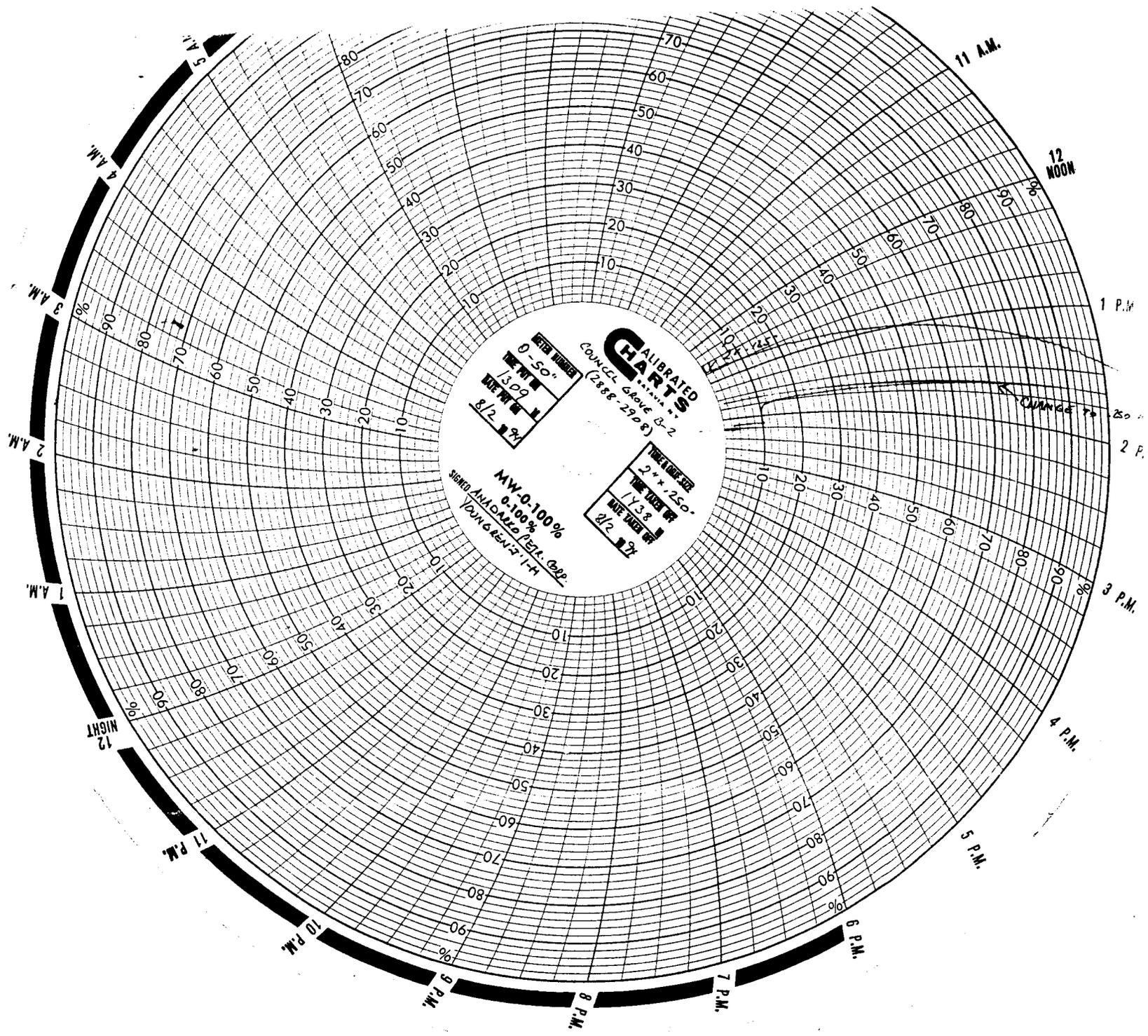
Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

Lab Number: 940381  
 Sample From: Youngren 'J' 1-H DST 19  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 08/03/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: C. G. B-2

	Mole %	GPM
Helium	He: 0.482	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 16.688	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 72.169	0.000
Ethane	C2: 6.028	1.612
Propane	C3: 3.118	0.859
Iso Butane	iC4: 0.359	0.117
Normal Butane	nC4: 0.757	0.239
Iso Pentane	iC5: 0.150	0.055
Normal Pentane	nC5: 0.149	0.054
Hexanes Plus	C6+: 0.100	0.044
TOTAL:	100.000	2.980
Z Fact:	0.9978	
SP.GR.:	0.7065	
BTU (SAT):	955.0 @ 14.73 psia	
BTU (DRY):	971.9 @ 14.73 psia	
OCTANE RATING:	104.3	

COMMENTS:



WET BULB TEMPERATURE

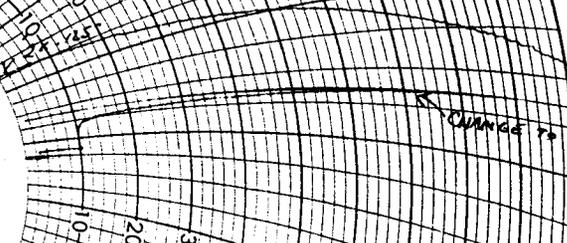
DRY BULB TEMPERATURE

RELATIVE HUMIDITY

WET BULB TEMPERATURE

DRY BULB TEMPERATURE

RELATIVE HUMIDITY



**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905-1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

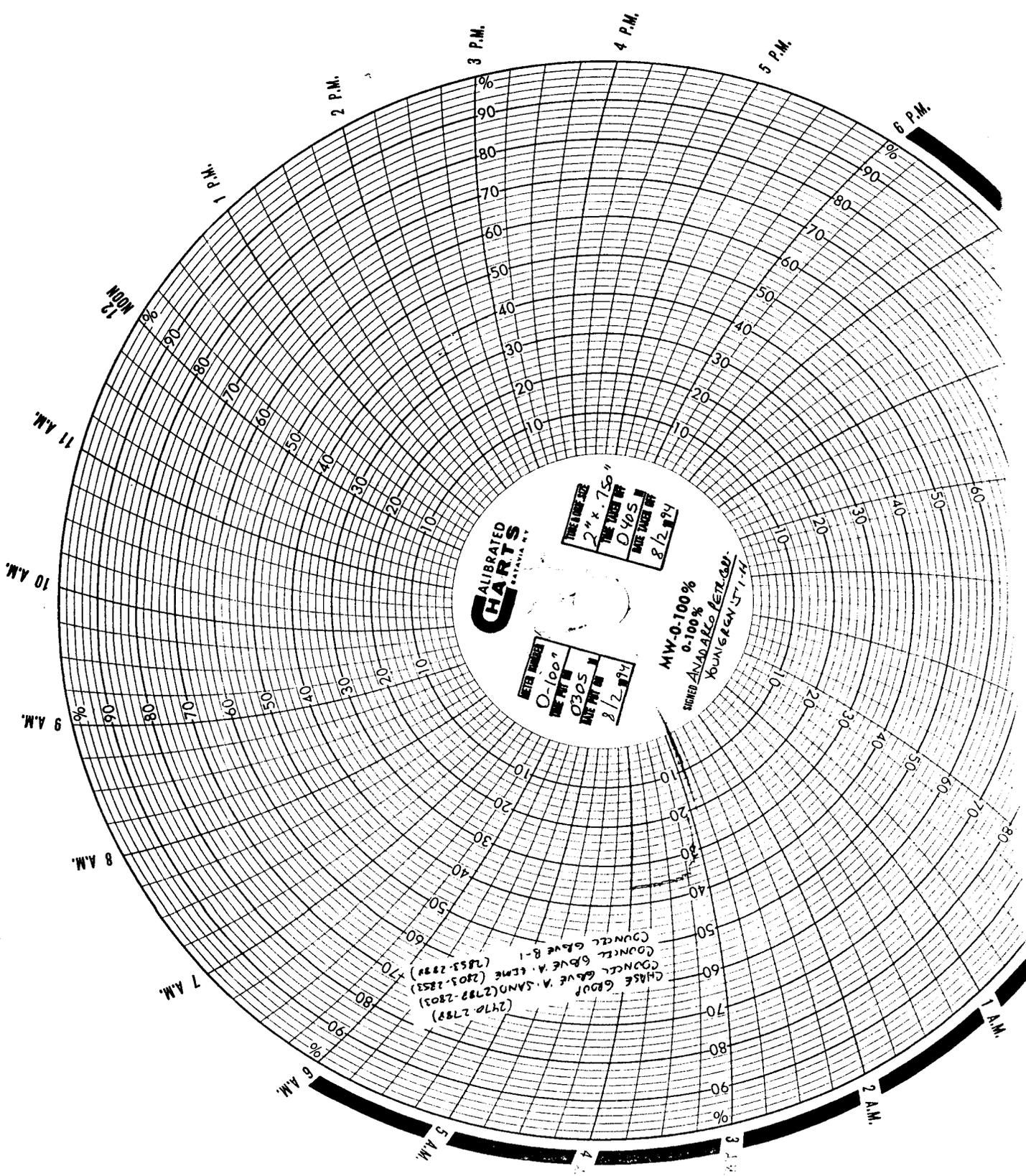
CSG 8 5/8 WT 24.0 SET ● 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET ● \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2888 TO 2908 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7065 API \_\_\_\_\_ ● \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR COUNCIL GROVE B-2

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL ANNUAL	SPECIAL RETEST	ENDING DATE
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.	WATER BBLs.				
TUESDAY 8-2-94																	8-2-94
0420																	START IN WELL WITH CORE BARREL.
0530																	CORE BARREL ON BOTTOM.
0650																	START CORING.
0715																	FINISH CORING COUNCIL GROVE B-2 (2888-2908).
0820																	START OUT OF WELL WITH CORE BARREL.
0945																	CORE BARREL ON SURFACE.
1147																	POWERED UP GRC EMS-725 INSTRUMENTS.
1151																	START IN WELL WITH INSTRUMENTS.
1306																	INSTRUMENTS ON BOTTOM.
																	BOTTOM OF TOP PACKER - 2887'
																	BOTTOM OF BOTTOM PACKER - 2893'
																	BOTTOM OF UPPER GAUGE - 2902'
																	BOTTOM OF LOWER GAUGE - 2906'
1309																	SET PACKER.
1309																	START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE.
																	GAS VOLUMES CORRECTED TO A .7065 GRAVITY.
1314										12.0		1.69					
1319										19.0		2.12					
1324										23.5		2.33					
1329										29.0		2.62					
1334										34.5		2.86					
1339										39.0		3.04					
1344										43.5		3.21					

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING DATE
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.				
TUESDAY 8-2-94	(CONTD)																
1349									48.0			3.37					
1354									50.0			3.44					
1359									50.0			3.44					
1404									50.0			3.44				CHANGE TO 1/4" PLATE.	
1409									12.5			5.51					
1414									5.5			3.64					
1419									5.0			3.42					
1424									5.0			3.42					
1429									5.0			3.42					
1434									5.0			3.42					
1438									5.0			3.42				CLOSE DOWNHOLE SHUT-OFF.	
WEDNESDAY 8-3-94																	
1309																RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.	
1419																INSTRUMENTS ON SURFACE.	
1428																POWERED DOWN GRC EMS-725 INSTRUMENTS.	
																UPPER GAUGE (76095) - YOUB21U	
																LOWER GAUGE (72289) - YOUB21L	



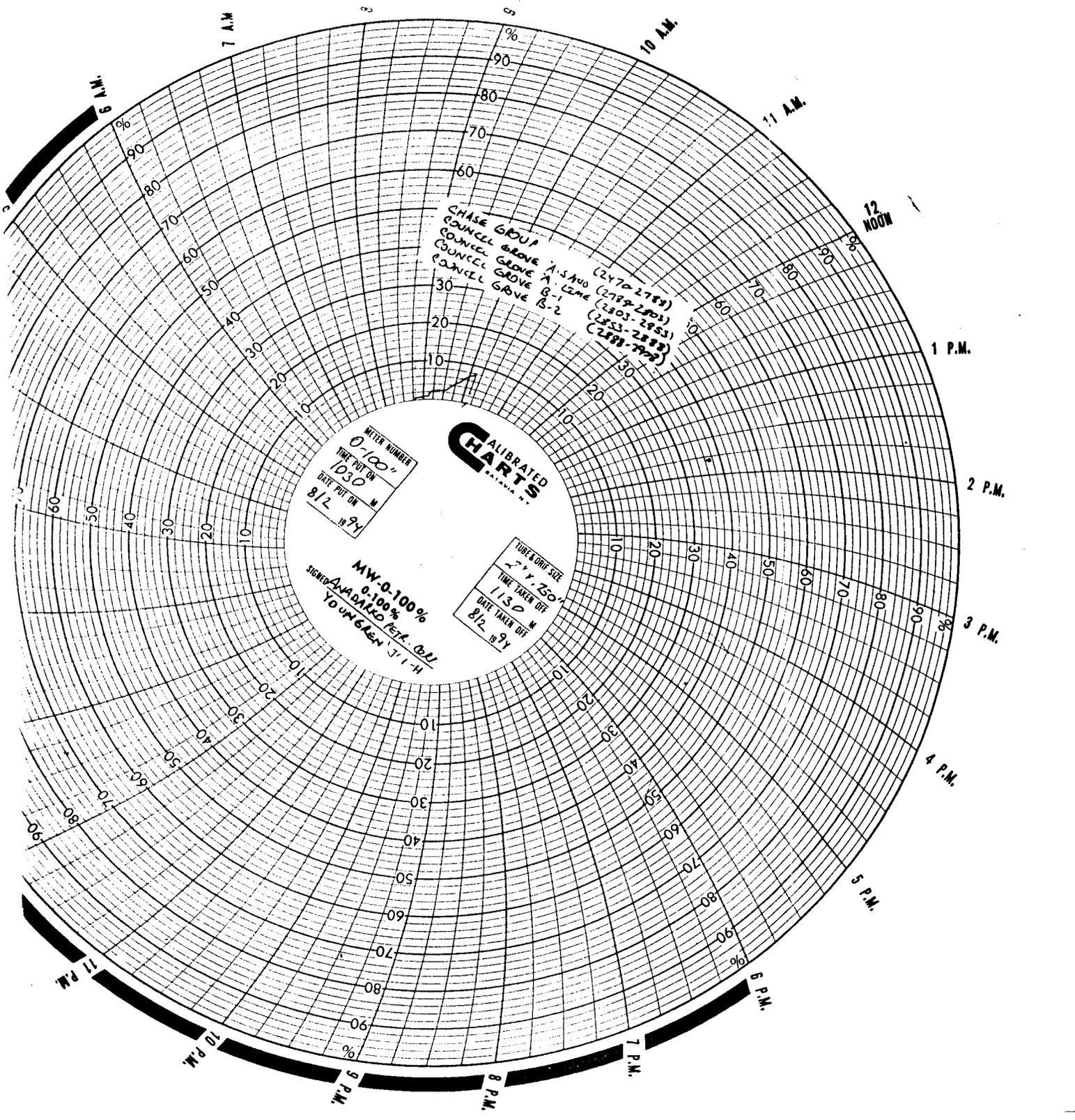
**CALIBRATED CHARTS**  
 CATANIA, N.Y.

TIME RANGE  
 2" x 7.50"  
 TIME TAKEN OFF  
 0405  
 DATE TAKEN OFF  
 8/2/94

METER RANGE  
 0-100"  
 METER NO.  
 0305  
 DATE TAKEN OFF  
 8/2/94

MW-0-100%  
 0-100%  
 SIGNED ANADALCO PETR. CO.  
 YOUNGBRAN, ILL.

CHASE GROUP  
 COUNCIL GROVE A. SAMP (2782-2803)  
 (2770-2782)  
 COUNCIL GROVE A. SAMP (2803-2853)  
 (2853-2882)  
 COUNCIL GROVE B-1



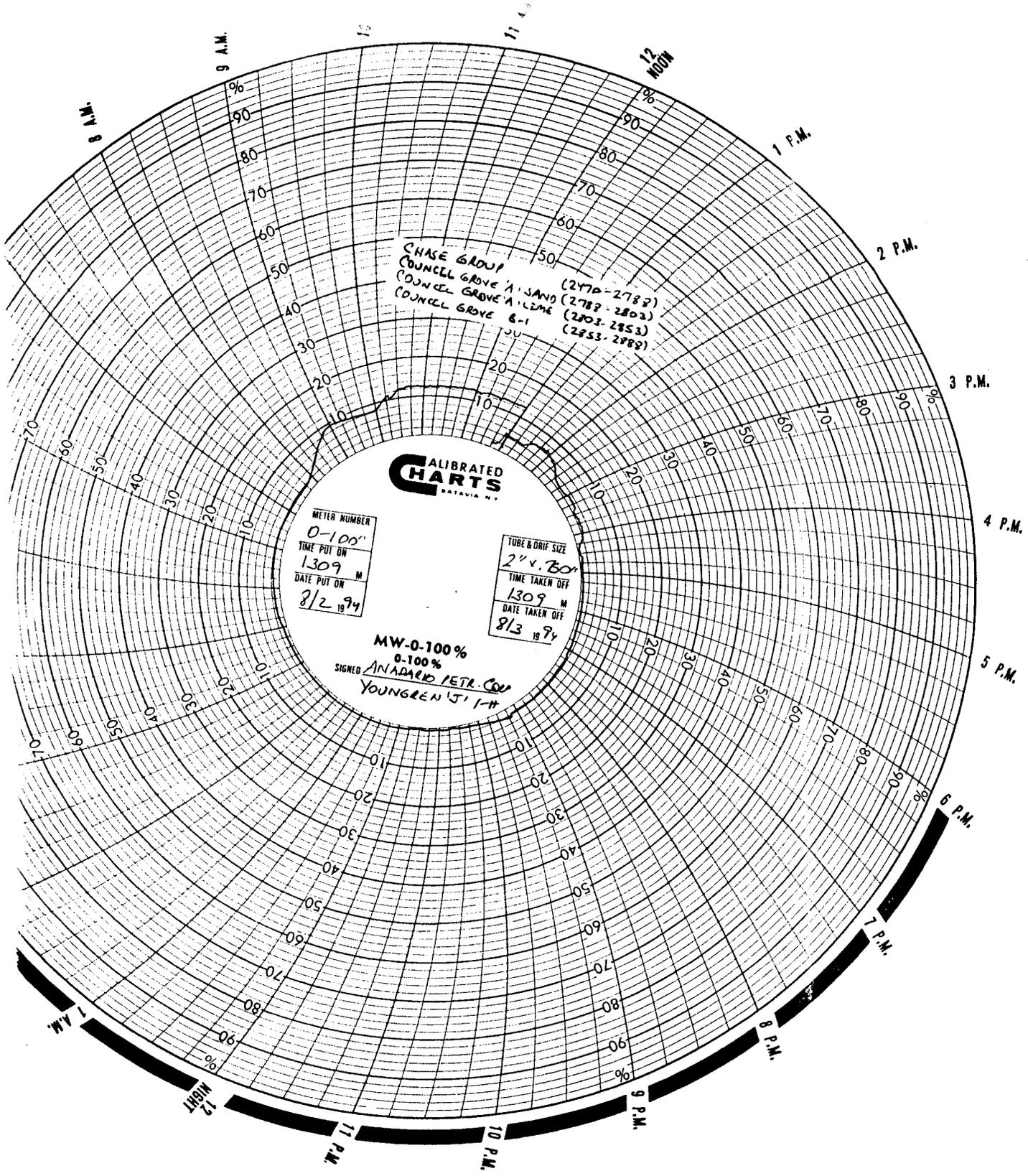
CHASE GROUP  
COUNCIL GROVE A-1 (2470-2783)  
COUNCIL GROVE A-2 (2789-2803)  
COUNCIL GROVE A-3 (2803-2853)  
COUNCIL GROVE B-1 (2853-2883)  
COUNCIL GROVE B-2 (2883-2903)

METER NUMBER  
0-100%  
TIME PUT ON  
1030  
DATE PUT ON  
8/2 1971

**CALIBRATED  
CHARTS**

TUBE & JOINT SIZE  
2" x 1/2"  
TIME TAKEN OFF  
1130  
DATE TAKEN OFF  
8/2 1971

MW-0-100%  
SIGNATURE: [Signature]  
YOUR OWN '51-11



**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FWL&1390FSL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE	
TUESDAY 8-2-94																		8-3-94
															REMARKS PERTINENT TO TEST DATA QUALITY			
															GAS VOLUMES CORRECTED TO A .720 GRAVITY.			
0305															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIME (2803-2853), AND COUNCIL GROVE B-1 (2853-2888)).			
0310									24		64.05							
0315									32		74.01							
0320									34		76.30							
0325									35		77.41							
0330									35		77.41							
0335									35		77.41							
0340									35		77.41							
0345									35		77.41							
0350									35		77.41							
0355									35		77.41							
0400									35		77.41							
0405									35		77.41							END FLOW TEST. PREPARE TO RUN CORE BARREL.
1030															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIME (2803-2853), COUNCIL GROVE B-1 (2853-2888), AND COUNCIL GROVE B-2 (2888-2908)).			
1035									2		18.43							
1040									2		18.43							
1045									2		18.43							

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

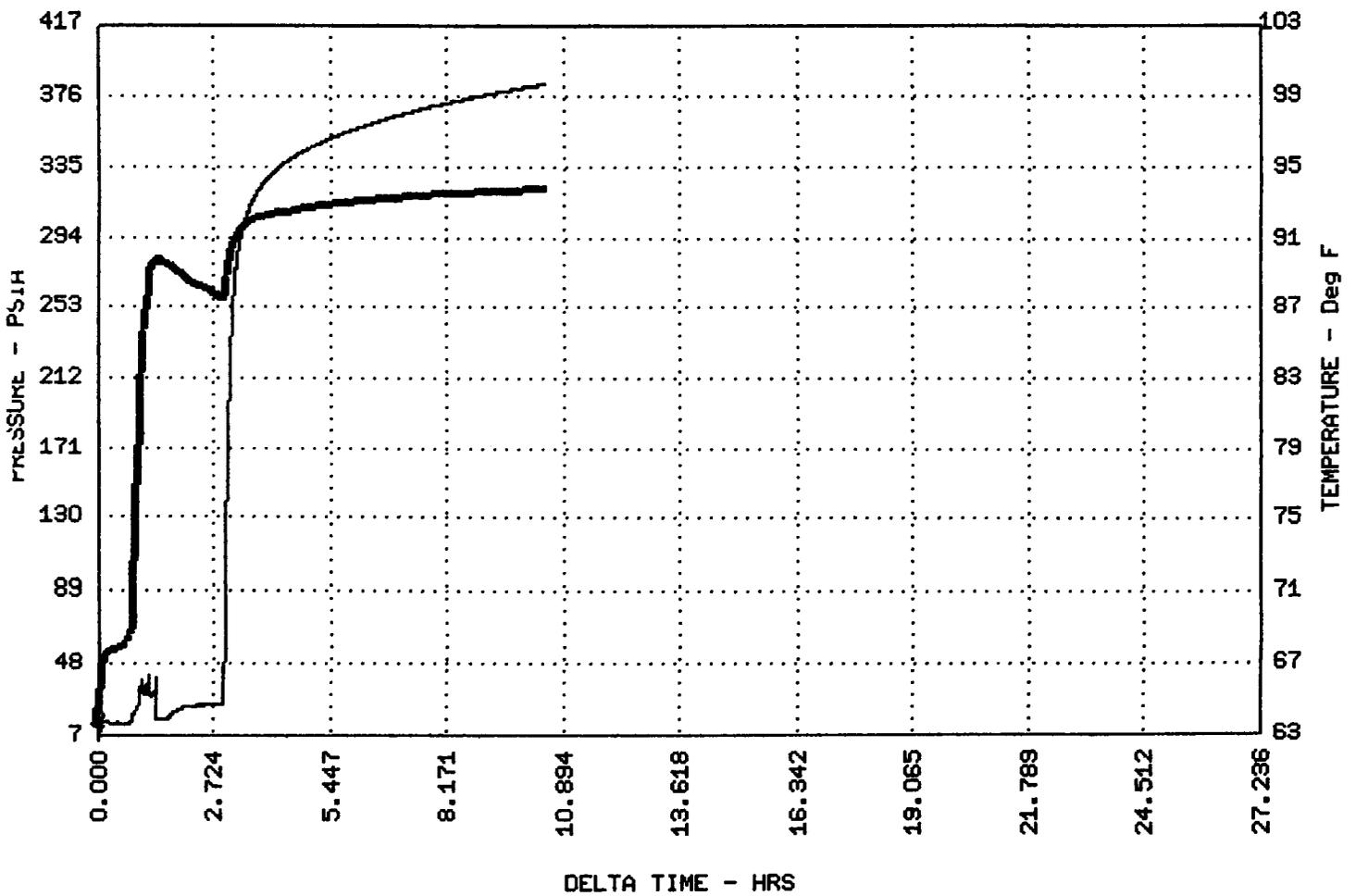
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs	WATER BBLs	TEST:	ANNUAL	RETEST	DATE	
TUESDAY 8-2-94	(CONTD)																	8-3-94
1050									2		18.43							
1055									2		18.43							
1100									3		22.58							
1105									4		26.08							
1110									5		29.12							
1115									5		29.12							
1120									5		31.98							
1125									7		34.47							
1130									7		34.47						END FLOW TEST. PREPARE TO RUN DST #19.	
1309																	SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIM (2803-2853), AND COUNCIL GROVE B-1 (2853-2888)).	
1314									4		26.08							
1319									4		26.08							
1324									4		26.08							
1329									4		26.08							
1334									4		26.08							
1339									5		29.12							
1344									6		31.98							
1349									6		31.98							
1354									6		31.98							
1359									6		31.98							
1404									6		31.98							
1409									5		29.12							
1414									5		29.12							
1419									5		29.12							



# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-3 & B-4 (2908-2940)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2923'.

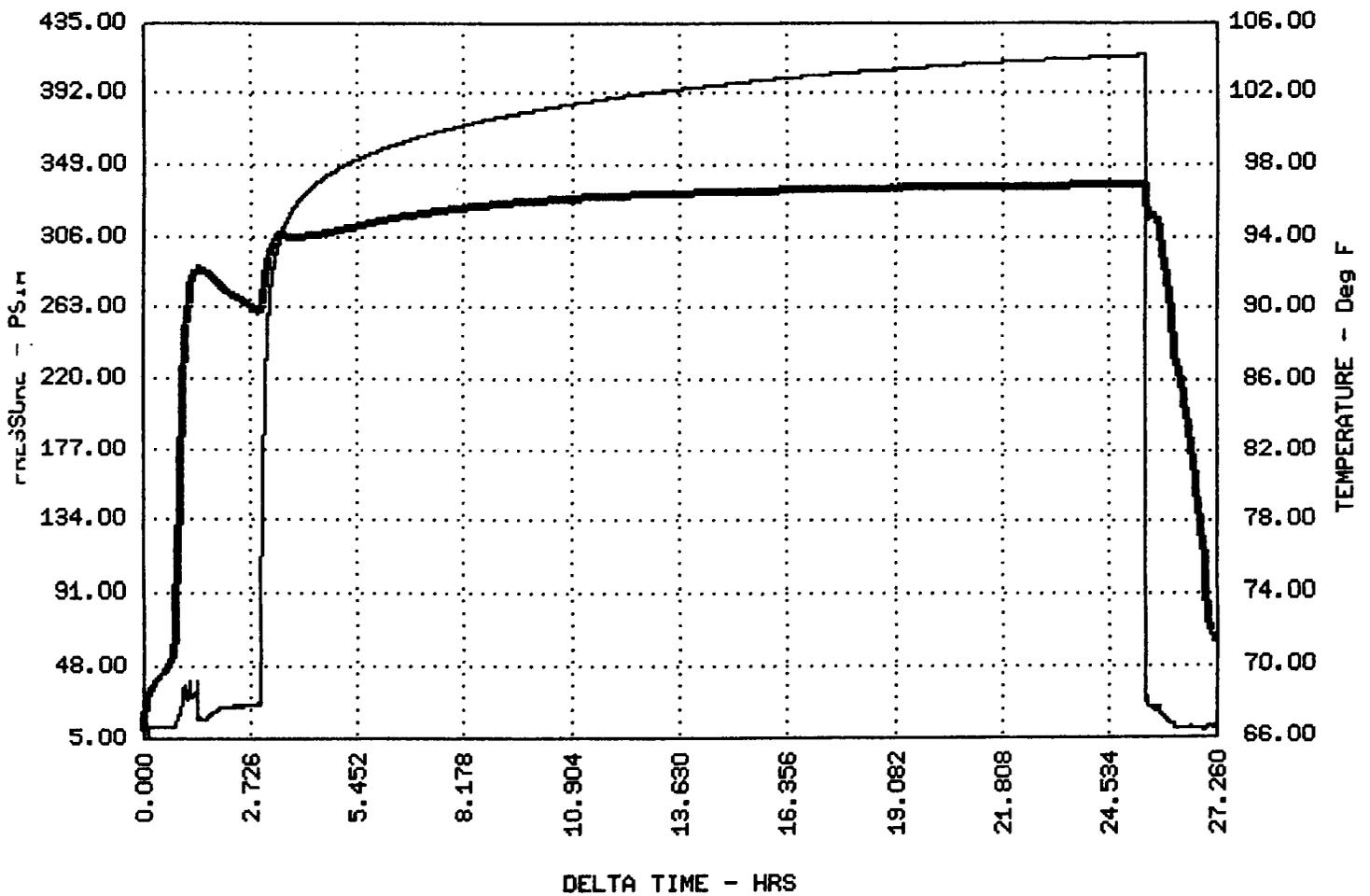
Starting date: 08/04/94  
time: 01:12:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-3 & B-4 (2908-2940)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2927'.

Starting date: 08/04/94  
time: 01:12:03



NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L.L.C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

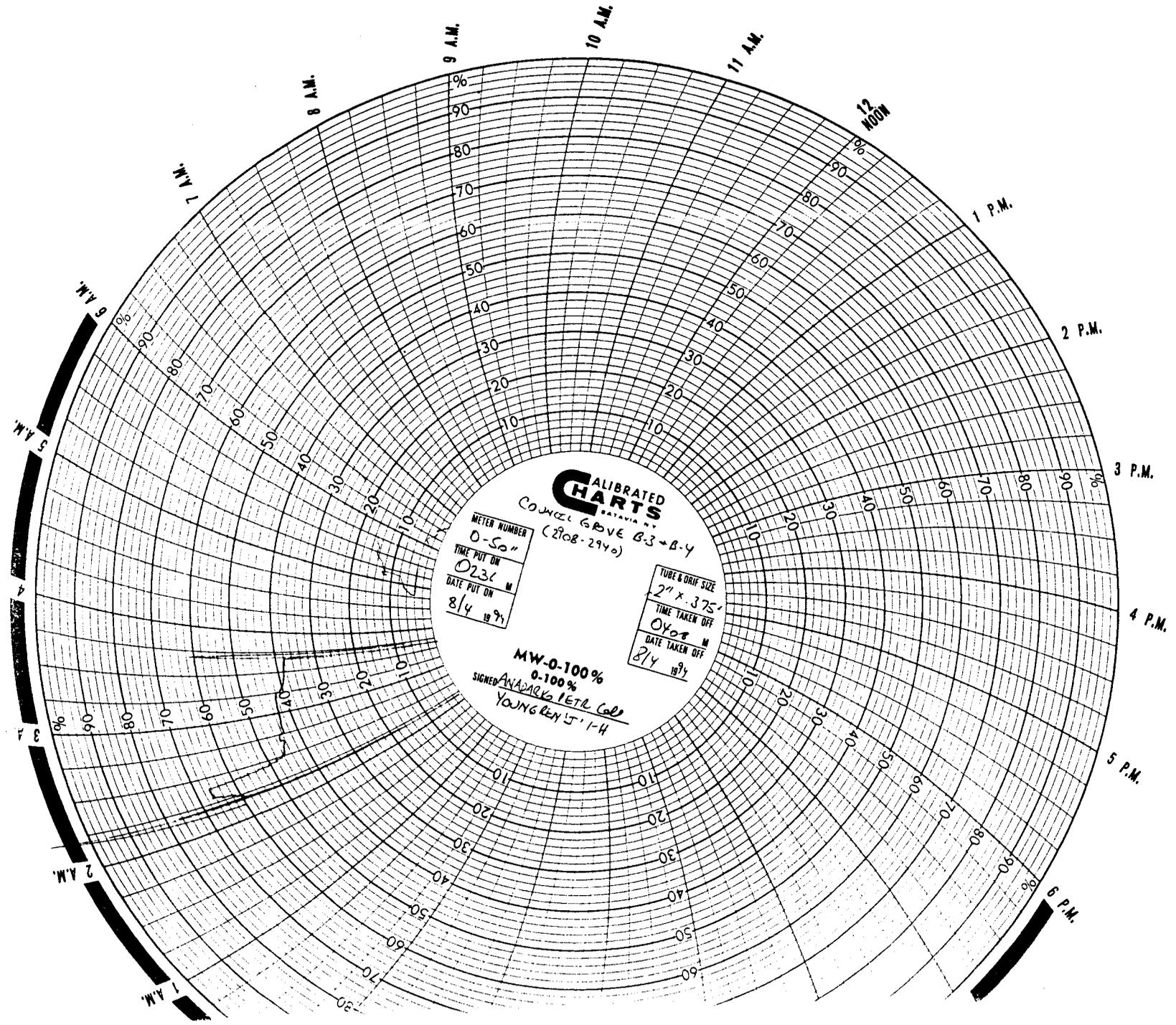
Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

Lab Number: 940389  
 Sample From: Youngren 'J' 1-H DST 20  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 08/04/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: C. G. B-3-<sub>2.4</sub>

	Mole %	GPM
Helium	He:	
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 17.057	0.000
Carbon Dioxide	CO2: 0.137	0.000
Methane	C1: 71.699	0.000
Ethane	C2: 5.960	1.594
Propane	C3: 3.364	0.927
Iso Butane	iC4: 0.400	0.131
Normal Butane	nC4: 0.906	0.286
Iso Pentane	iC5: 0.152	0.056
Normal Pentane	nC5: 0.174	0.063
Hexanes Plus	C6+: 0.151	0.066
	TOTAL: 100.000	3.122
	Z Fact: 0.9977	
	SP.GR.: 0.7181	
	BTU (SAT): 965.0 @ 14.73 psia	
	BTU (DRY): 982.1 @ 14.73 psia	
	OCTANE RATING: 104.1	

COMMENTS: Sample Entered under vacuum  
 Insufficient pressure for helium analysis



**CALIBRATED CHARTS**  
BATAVIA, N.Y.  
 COUNSEL GROVE B-3 + B-4  
 (2908-2940)

METER NUMBER	0-50"
TIME PUT ON	0231
DATE PUT ON	8/4 1937

TUBE & ORIF. SIZE	2" x .375"
TIME TAKEN OFF	0408
DATE TAKEN OFF	8/4 1937

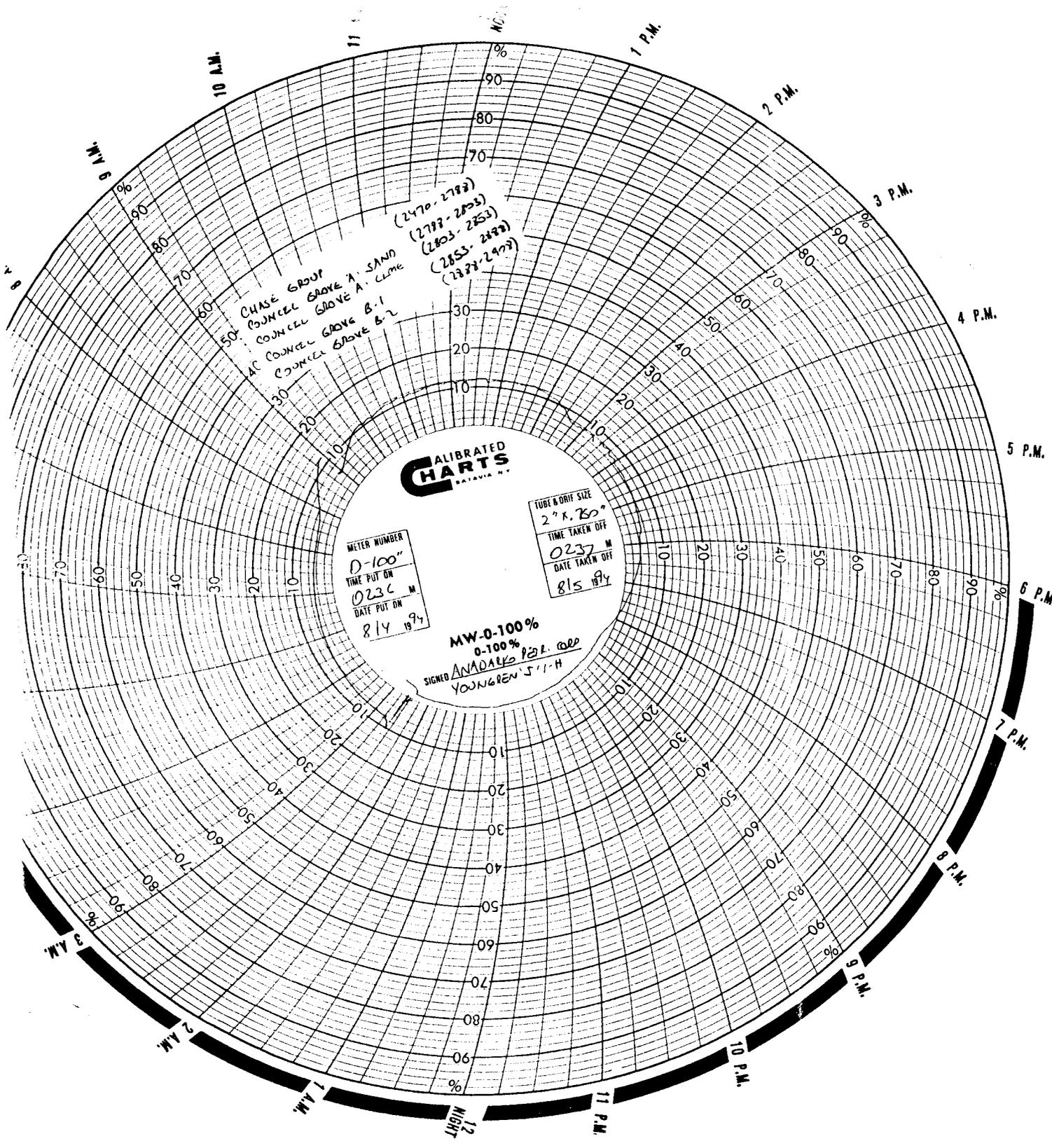
MW-0-100%  
 0-100%  
 SIGNED *ANADARKO IETL Cole*  
 YOUNGREN J. I-H



Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____ ANNUAL _____	SPECIAL _____ RETEST _____	ENDING DATE <u>8-5-94</u>
		CSG PSIG	$\Delta$ P CSG	TBG PSIG	$\Delta$ P TBG	BHP PSIG	$\Delta$ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.				
THURSDAY 8-4-94	(CONTD)																
0306										23.0		15.58					
0311										22.0		15.27					GAS TO SURFACE.
0316										21.5		15.08					
0321										21.5		15.08					
0326										21.5		15.08					
0331										21.0		14.90					
0336										19.5		14.35					
0341										19.5		14.35					
0346										19.5		14.17					
0351										18.5		13.99					
0356										18.5		13.99					
0401										18.5		13.99					
0408										18.0		13.80					CLOSE DOWNHOLE SHUT-OFF.
FRIDAY 8-5-94																	
0237																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS
0422																	INSTRUMENTS ON SURFACE.
0437																	POWERED DOWN GRC EMS-725 INSTRUMENTS.
																	UPPER GAUGE (76095) - YOUB341U
																	LOWER GAUGE (72289) - YOUB341L



CHASE GROUP  
 COUNCEL GROVE A SAND  
 COUNCEL GROVE A. CLIME  
 AC COUNCEL GROVE B.1  
 COUNCEL GROVE B.2

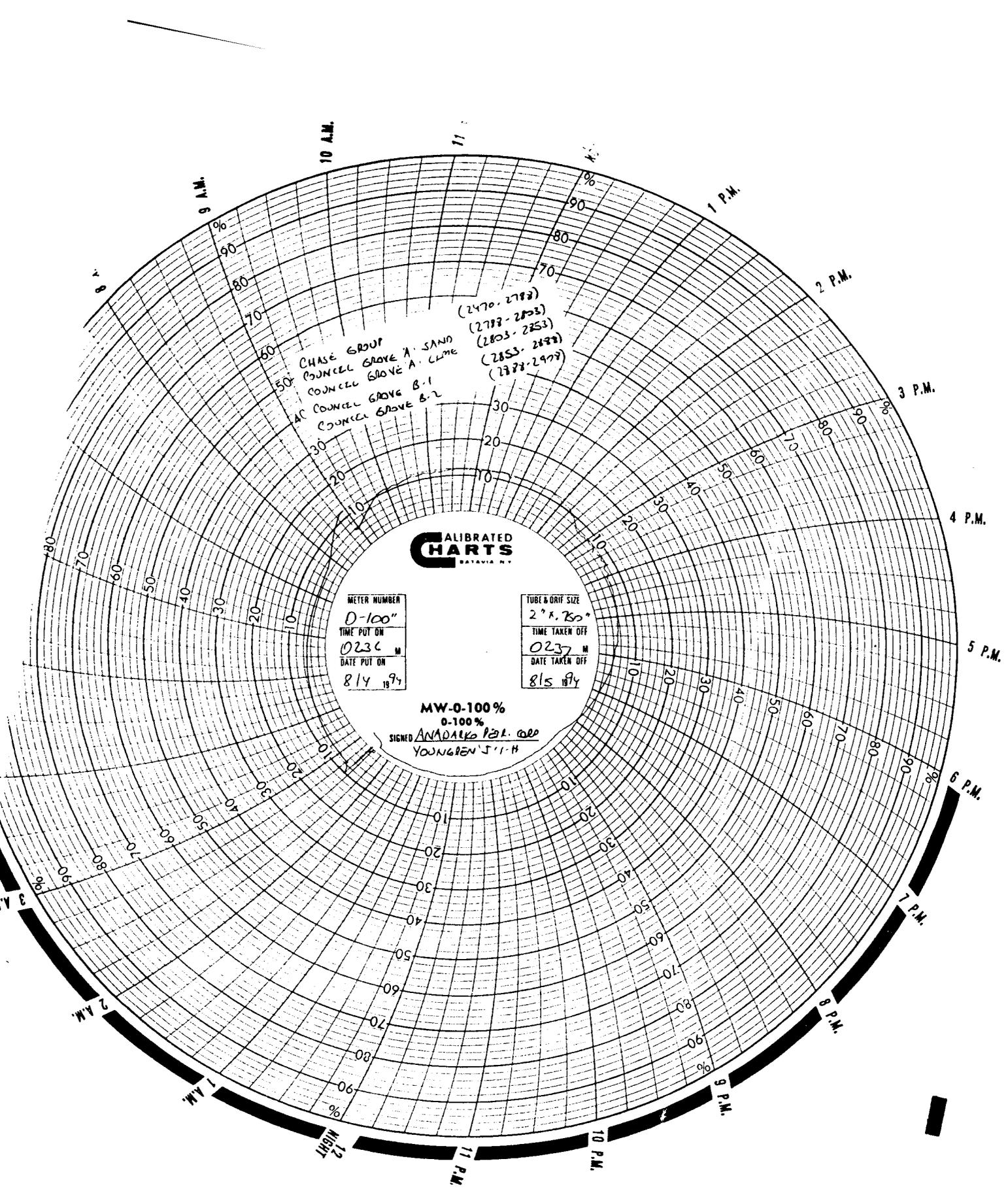
(2470-2777)  
 (2777-2853)  
 (2853-2853)  
 (2853-2877)  
 (2877-2977)

**CALIBRATED CHARTS**  
 BATAVIA, N.Y.

METER NUMBER  
 D-100"  
 TIME PUT ON  
 0236 M  
 DATE PUT ON  
 8/4 1974

TUBE & DRIFT SIZE  
 2" x .75"  
 TIME TAKEN OFF  
 0237 M  
 DATE TAKEN OFF  
 8/5 1974

MW-0-100%  
 0-100%  
 SIGNED ANADAKS PER. CO. P  
 YOUNGREN J. H.



CHASE GROUP  
 COUNCEL GROVE A SAND (2470-2777)  
 COUNCEL GROVE A CLME (2777-2853)  
 AC COUNCEL GROVE B-1 (2853-2877)  
 COUNCEL GROVE B-2 (2877-2977)

**CALIBRATED CHARTS**  
 BATAVIA, N.Y.

METER NUMBER  
 D-100"  
 TIME PUT ON  
 0236 M  
 DATE PUT ON  
 8/4 1974

TUBE & ORIF SIZE  
 2" x .75"  
 TIME TAKEN OFF  
 0237 M  
 DATE TAKEN OFF  
 8/5 1974

MW-0-100%  
 0-100%  
 SIGNED ANADALKA P.B.L. C.E.P.  
 YOUNGREN J.H.H.

**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TO \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs	WATER BBLs	TEST:	ANNUAL	RETEST	DATE	
WEDNESDAY 8-3-94																	8-5-94	
															REMARKS PERTINENT TO TEST DATA QUALITY			
	1445														GAS VOLUMES CORRECTED TO A .720 GRAVITY.			
															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIME (2803-2853), COUNCIL GROVE B-1 (2853-2888), AND COUNCIL GROVE B-2 (2888-2908).			
	1450								8		36.51							
	1455								9		38.80							
	1500								10		40.89							
	1505								12		45.00							
	1510								12		45.00							
	1515								12		45.00							
	1520								12		45.00							
	1525								12		45.00							
	1530								12		45.00							
	1535								12		45.00							
	1540								12		45.00							
	1545								12		45.0				END FLOW TEST. PREPARE TO RUN CORE BARREL.			
	2345														RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIME (2803-2853), COUNCIL GROVE B-1 (2853-2888), COUNCIL GROVE B-2 (2888-2908), AND COUNCIL GROVE B-3 AND B-4 (2908-2940).			
	2350								12		45.00							
	2355								14		48.66							

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

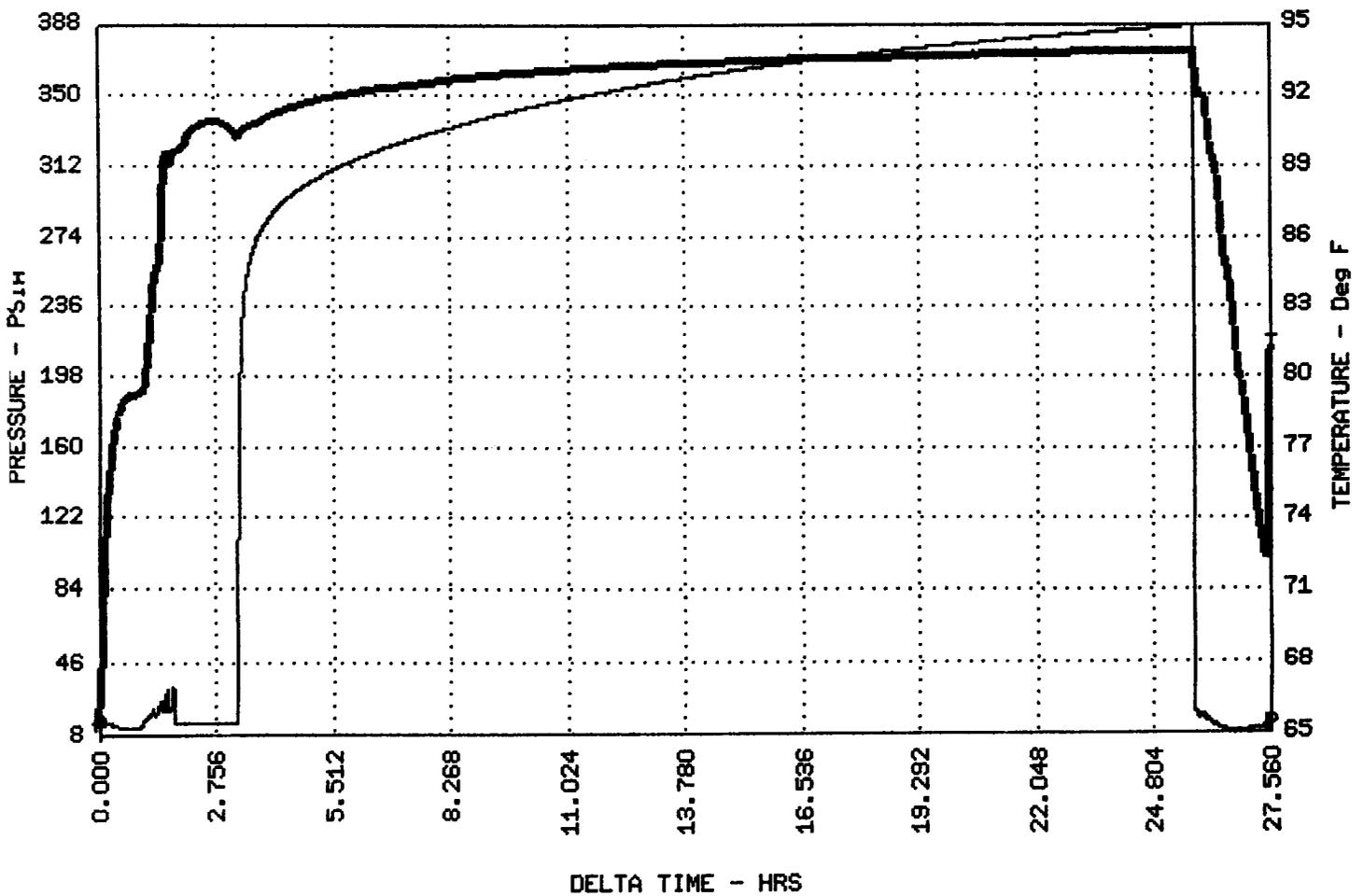
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE	
THURSDAY 8-4-94																		8-5-94
																		REMARKS PERTINENT TO TEST DATA QUALITY
0000									14			48.66						
0005									14			48.66						
0010									14			48.66						
0015									14			48.66						
0020									14			48.66						
0025									14			48.66						
0030									14			48.66						
0035									14			48.66						
0040									15			50.39						
0045									15			50.39						END FLOW TEST. PREPARE TO RUN DST #20.
0236																		SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY
																		CASING.
																		(COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIME (2803-2853), CONCIL GROVE B-1 (2853-2888), AND COUNCIL GROVE B-2 (2888-2908)).
0241									7			34.14						
0246									8			36.51						
0251									8			36.51						
0256									8			36.51						
0301									8			36.51						
0306									8			36.51						
0311									8			36.51						
0316									8			36.51						
0321									8			36.51						
0326									8			36.51						
0331									8			36.51						
0336									8			36.51						



# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-5 (2940-2960)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2955'.

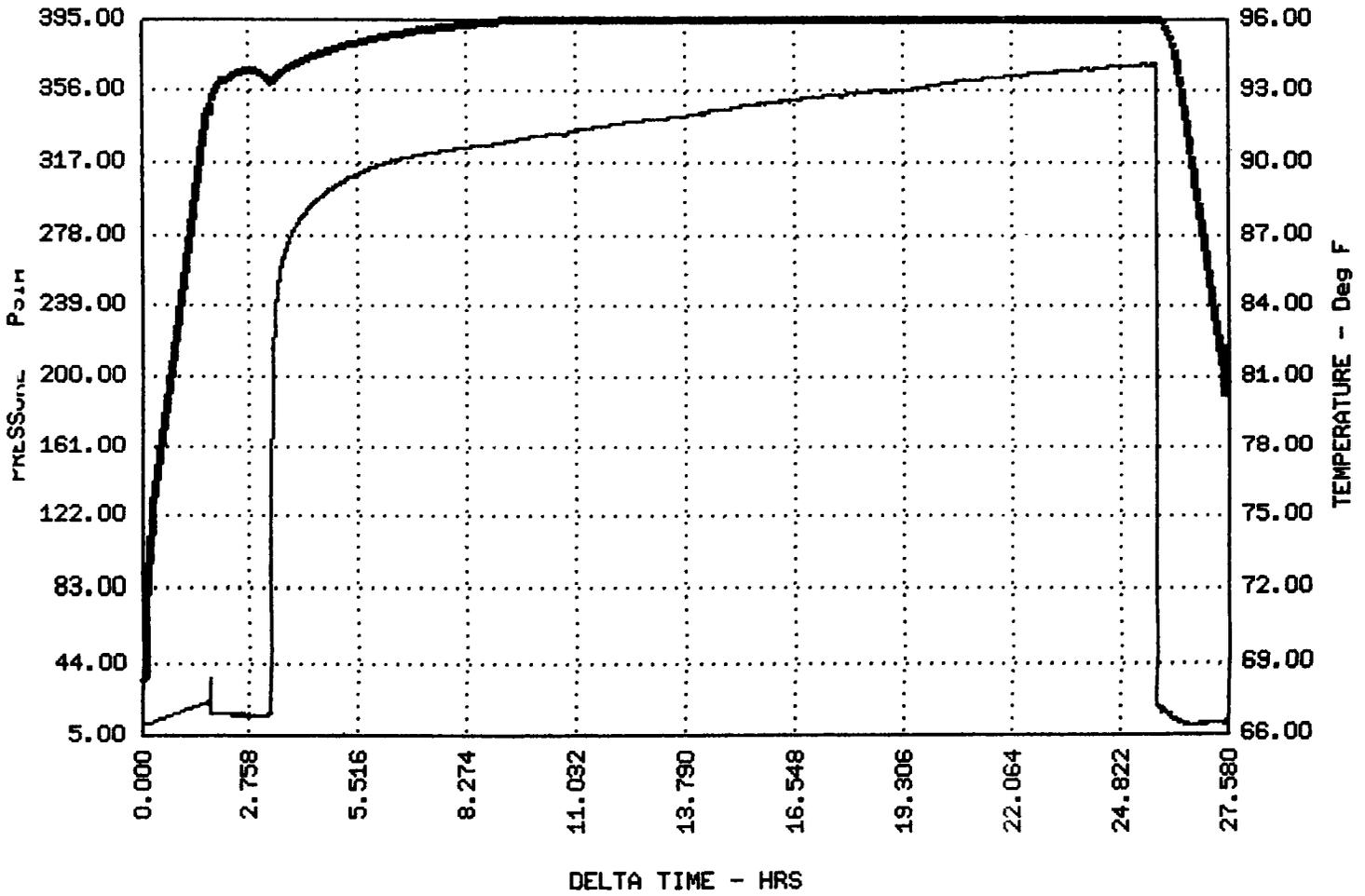
Starting date: 08/05/94  
time: 14:34:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: C. G. B-5 (2940-2960)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2959'.

Starting date: 08/05/94  
time: 14:34:03



## NATURAL GAS ANALYSIS REPORT

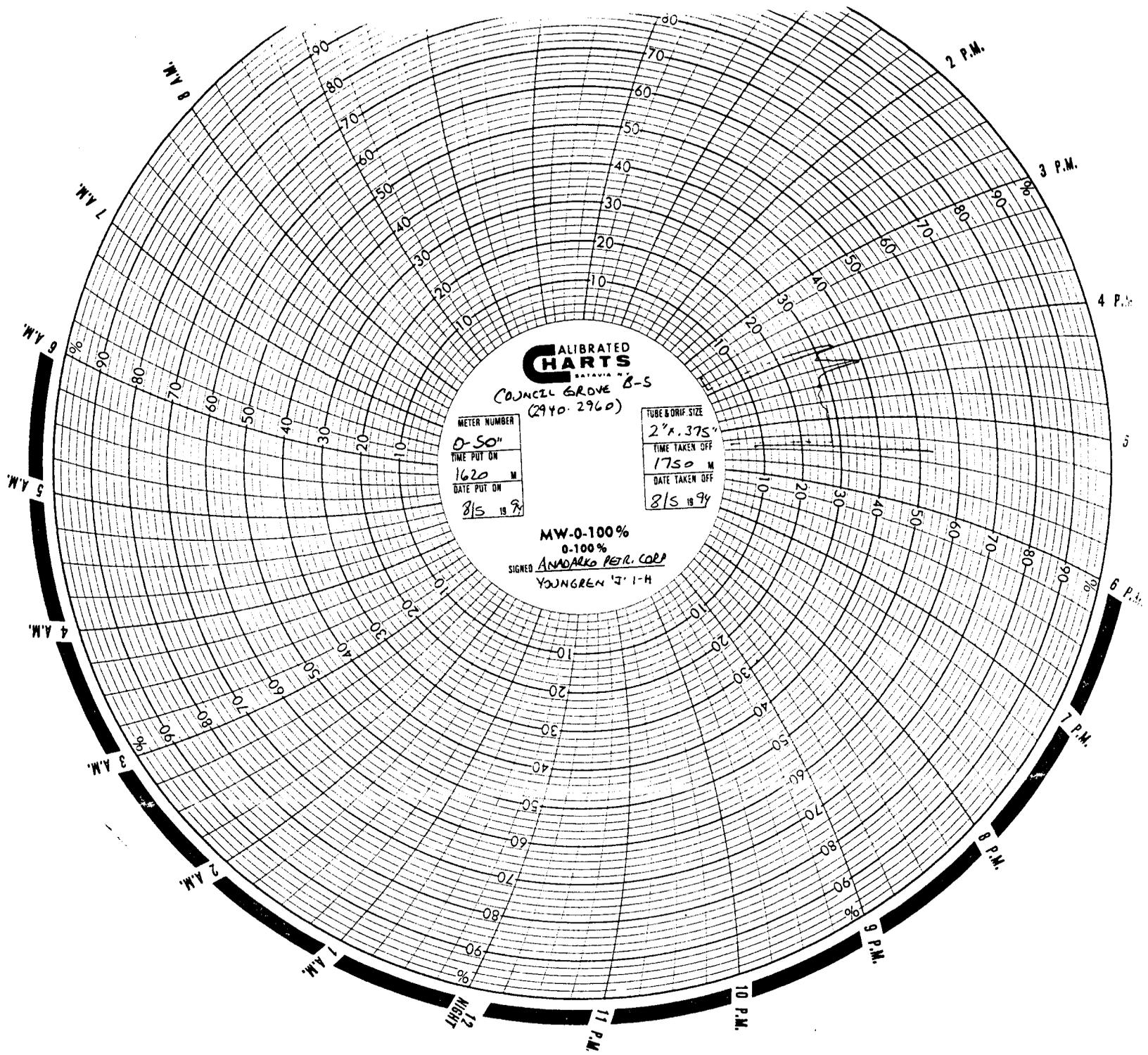
Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, L.L.C.  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-324-5389  
Fax: 316-626-7108

Lab Number:	0392	Analyzed:	08/06/94
Sample From:	Youngren 'J' 1-H DST 21	Pressure:	
Producer:	Anadarko	Temperature:	
Date:		Location:	4-33-38W
Time:		County:	Stevens
Sampler:		State:	Kansas
Source:		Formation:	C. G.
			B-5

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	17.053
Carbon Dioxide	CO2:	0.112
Methane	C1:	71.794
Ethane	C2:	5.962
Propane	C3:	3.318
Iso Butane	iC4:	0.402
Normal Butane	nC4:	0.871
Iso Pentane	iC5:	0.124
Normal Pentane	nC5:	0.159
Hexanes Plus	C6+:	0.205
	TOTAL:	100.000
	Z Fact:	0.9977
	SP.GR.:	0.7176
	BTU (SAT):	964.8 @ 14.73 psia
	BTU (DRY):	981.9 @ 14.73 psia
	OCTANE RATING:	104.1

COMMENTS: Sample Entered under vacuum  
Insufficient pressure for helium analysis



**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

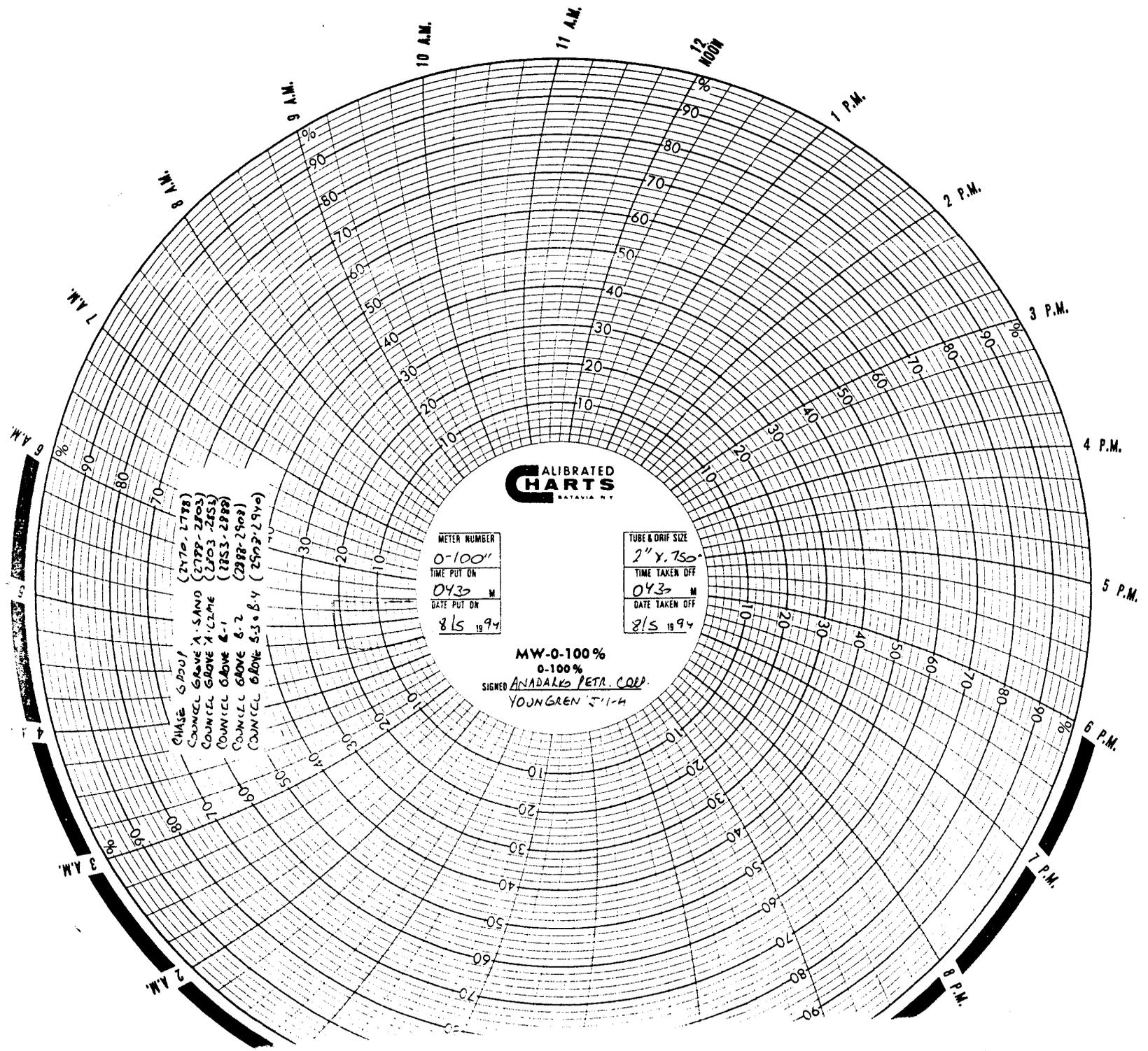
CSG 8 5/8 WT 24.0 SET 2430 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2940 TO 2960 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7176 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR COUNCIL GROVE B-5

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL ANNUAL	SPECIAL RETEST	ENDING DATE
		CSG PSIG	$\Delta$ P CSG	TBG PSIG	$\Delta$ P TBG	BHP PSIG	$\Delta$ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.				
FRIDAY 8-5-94																	8-6-94
0550																	START IN WELL WITH CORE BARREL.
0705																	CORE BARREL ON BOTTOM.
0920																	START CORING.
1020																	FINISH CORING COUNCIL GROVE B-5 (2940-2960).
1105																	START OUT OF WELL WITH CORE BARREL.
1225																	CORE BARREL ON SURFACE.
1434																	POWERED UP GRC EMS-725 INSTRUMENTS.
1437																	START IN WELL WITH INSTRUMENTS.
1617																	INSTRUMENTS ON BOTTOM.
																	BOTTOM OF TOP PACKER - 2939'
																	BOTTOM OF BOTTOM PACKER - 2945'
																	BOTTOM OF UPPER GAUGE - 2955'
																	BOTTOM OF LOWER GAUGE - 2959'
1620																	SET PACKER.
1620																	START FLOW PERIOD WITH 2" O.W.T. AND 3/8" PLATE.
																	GAS VOLUMES CORRECTED TO A .7176 GRAVITY.
1625										17.0		13.44					
1630										16.5		13.21					
1635										19.5		14.36					
1640										15.0		12.71					GAS TO SURFACE.
1645										14.5		12.48					
1650										14.0		12.25					
1655										13.5		12.02					

**Precision Well Testing**

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____ ANNUAL _____	SPECIAL _____ RETEST _____	ENDING DATE	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.					8-6-94
FRIDAY 8-5-94																		REMARKS PERTINENT TO TEST DATA QUALITY
1700									13.5			12.02						
1705									13.5			12.02						
1710									14.0			12.25						
1715									14.0			12.25						
1720									14.0			12.25						
1725									14.0			12.25						
1730									14.0			12.25						
1735									14.0			12.25						
1740									14.0			12.25						
1745									14.0			12.25						
1750									14.0			12.25						CLOSE DOWNHOLE SHUT-OFF.
SATURDAY 8-6-94																		
1619																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
1803																		INSTRUMENTS ON SURFACE.
1807																		POWERED DOWN GRC EMS-725 INSTRUMENTS.
																		UPPER GAUGE (76095) - YOUB51U
																		LOWER GAUGE (72289) - YOUB51L
																		(*LOWER INSTRUMENT PARTIALLY PLUGGED WITH MUD).



**CALIBRATED  
CHARTS**  
BATAVIA, N.Y.

METER NUMBER  
0-100'  
TIME PUT ON  
0430 M  
DATE PUT ON  
8/5 1994

TUBE & DRIF SIZE  
2" x .750"  
TIME TAKEN OFF  
0430 M  
DATE TAKEN OFF  
8/5 1994

MW-0-100%  
0-100%  
SIGNED ANADARKO PETR. CORP.  
YOUNGREN 5-14

CHASE GROUP  
COUNCIL GROVE A-SAND (2470-1778)  
COUNCIL GROVE A-CLIME (2772-2703)  
COUNCIL GROVE A-1 (2703-2853)  
COUNCIL GROVE B-1 (2853-2882)  
COUNCIL GROVE B-2 (2882-2902)  
COUNCIL GROVE S-S-B-Y (2902-2940)

9 A.M.

7 A.M.

8 A.M.

9 A.M.

10 A.M.

11 A.M.

12  
NOON

1 P.M.

2 P.M.

3 P.M.

4 P.M.

5 P.M.

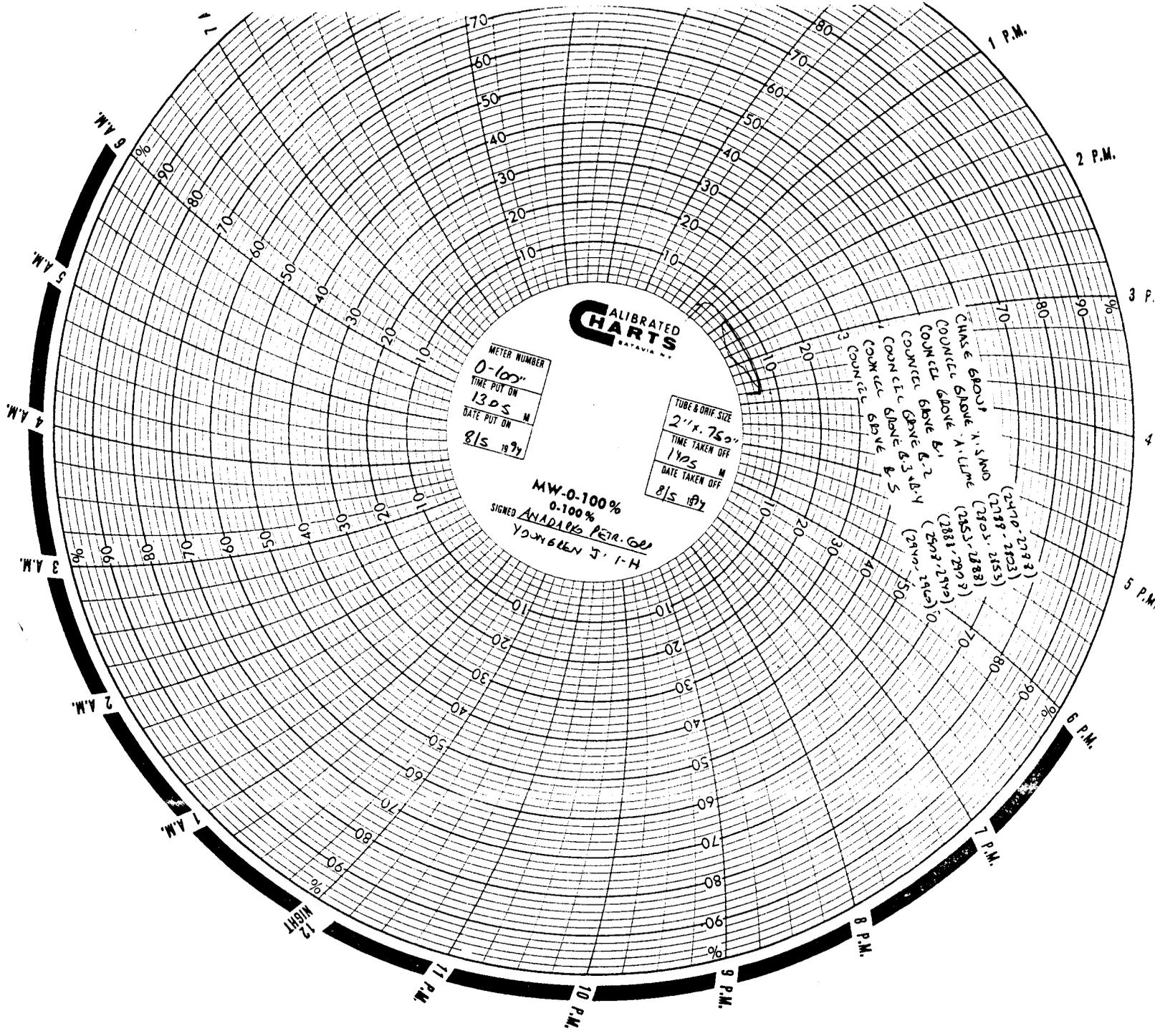
6 P.M.

7 P.M.

8 P.M.

3 A.M.

2 A.M.



**CALIBRATED CHARTS**  
MATAVIA, N.Y.

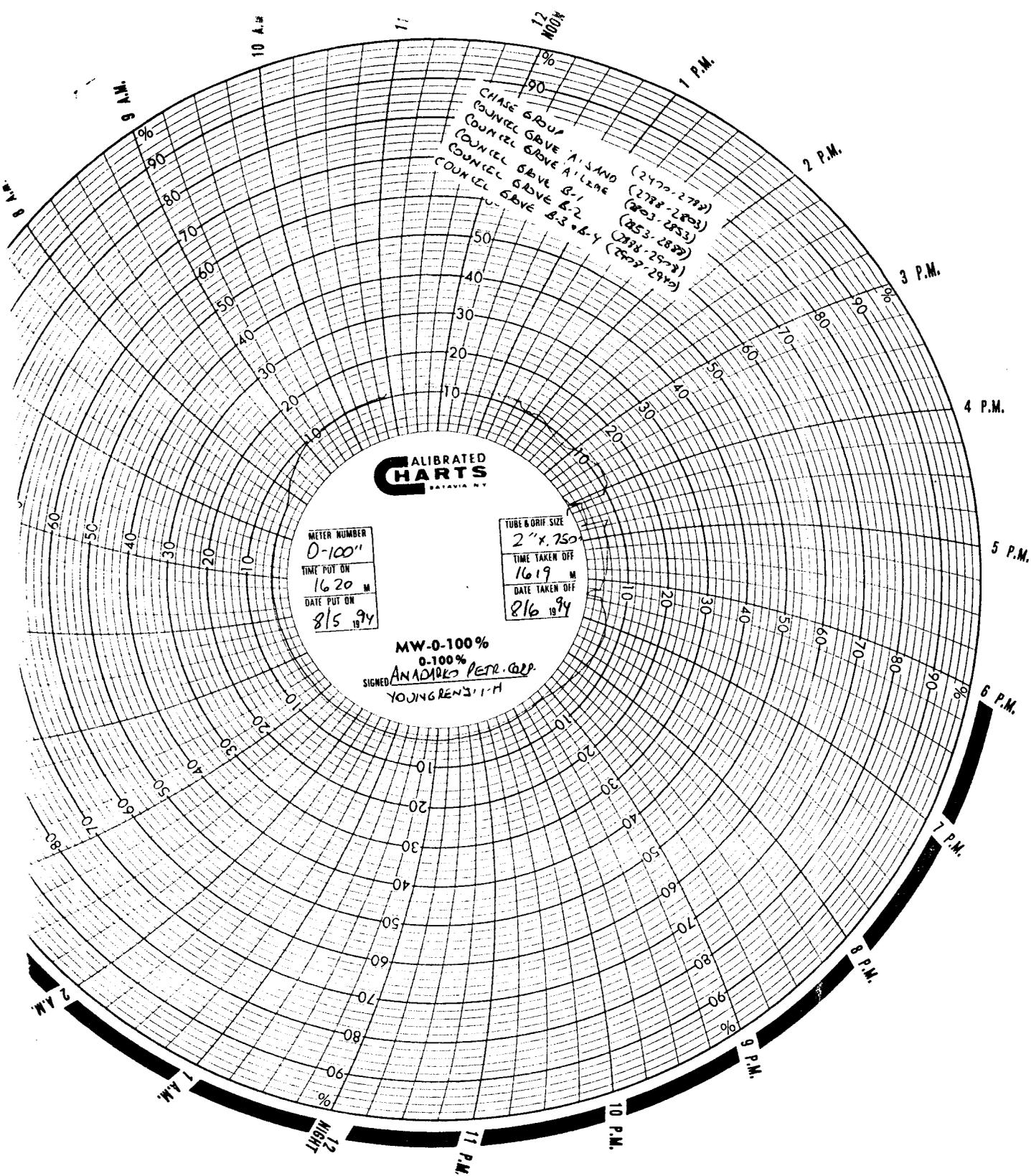
METER NUMBER  
0-100  
TIME PUT ON  
1305 M  
DATE PUT ON  
8/5 1972

TUBE & DRIV. SIZE  
2" x .750"  
TIME TAKEN OFF  
1405 M  
DATE TAKEN OFF  
8/5 1972

MW-0-100%  
0-100%  
SIGNED ANADARIS PER. GEL  
YOUNGREN J. I-H

CHASE GROUP  
COUNCIL GROVE A. 1.5 MND  
COUNCIL GROVE A. 1.1 LIME  
COUNCIL GROVE B. 1  
COUNCIL GROVE B. 2  
COUNCIL GROVE B. 3 B.V.  
COUNCIL GROVE B. 4  
COUNCIL GROVE B. 5  
COUNCIL GROVE B. 6  
COUNCIL GROVE B. 7  
COUNCIL GROVE B. 8  
COUNCIL GROVE B. 9  
COUNCIL GROVE B. 10  
COUNCIL GROVE B. 11  
COUNCIL GROVE B. 12  
COUNCIL GROVE B. 13  
COUNCIL GROVE B. 14  
COUNCIL GROVE B. 15  
COUNCIL GROVE B. 16  
COUNCIL GROVE B. 17  
COUNCIL GROVE B. 18  
COUNCIL GROVE B. 19  
COUNCIL GROVE B. 20  
COUNCIL GROVE B. 21  
COUNCIL GROVE B. 22  
COUNCIL GROVE B. 23  
COUNCIL GROVE B. 24  
COUNCIL GROVE B. 25  
COUNCIL GROVE B. 26  
COUNCIL GROVE B. 27  
COUNCIL GROVE B. 28  
COUNCIL GROVE B. 29  
COUNCIL GROVE B. 30  
COUNCIL GROVE B. 31  
COUNCIL GROVE B. 32  
COUNCIL GROVE B. 33  
COUNCIL GROVE B. 34  
COUNCIL GROVE B. 35  
COUNCIL GROVE B. 36  
COUNCIL GROVE B. 37  
COUNCIL GROVE B. 38  
COUNCIL GROVE B. 39  
COUNCIL GROVE B. 40  
COUNCIL GROVE B. 41  
COUNCIL GROVE B. 42  
COUNCIL GROVE B. 43  
COUNCIL GROVE B. 44  
COUNCIL GROVE B. 45  
COUNCIL GROVE B. 46  
COUNCIL GROVE B. 47  
COUNCIL GROVE B. 48  
COUNCIL GROVE B. 49  
COUNCIL GROVE B. 50

(24170, 22982)  
(21897, 24203)  
(2505, 2455)  
(2853, 2888)  
(2881, 2899)  
(2502, 2502)  
(2870, 2902)



**CALIBRATED CHARTS**  
 BOSTON, MASS.

METER NUMBER  
 0-100"  
 TIME PUT ON  
 16 20 M  
 DATE PUT ON  
 8/5 1974

TUBE & ORIF. SIZE  
 2" x .750  
 TIME TAKEN OFF  
 16 19 M  
 DATE TAKEN OFF  
 8/6 1974

MW-0-100%  
 0-100%  
 SIGNED ANADIRKS PETR. CORP.  
 YOUNG RENZI, I-H

CHASE GROUP (2470-2772)  
 COUNCIL GROVE A-1 SAND (2778-2803)  
 COUNCIL GROVE A-1 LEAK (2803-2853)  
 COUNCIL GROVE B-1 (2853-2872)  
 COUNCIL GROVE B-2 (2872-2902)  
 COUNCIL GROVE B-3 & B-4 (2902-2912)

**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS. \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL ANNUAL	SPECIAL RETEST	ENDING DATE
		CSG PSIG	$\Delta$ P CSG	TBG PSIG	$\Delta$ P TBG	BHP PSIG	$\Delta$ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBSL.	WATER BBSL.				
FRIDAY 8-5-94																	8-6-94
0430																	
0435										17		53.49					
0440										22		60.90					
0445										22		60.90					
0450										22		60.90					
0455										22		60.90					
0500										22		60.90					
0505										22		60.90					
0510										22		60.90					
0515										22		60.90					
0520										21		59.48					
0525										21		59.48					
0530										21		59.48					
1305																	
1310										6		31.73					
1315										6		31.73					

**Precision Well Testing**

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

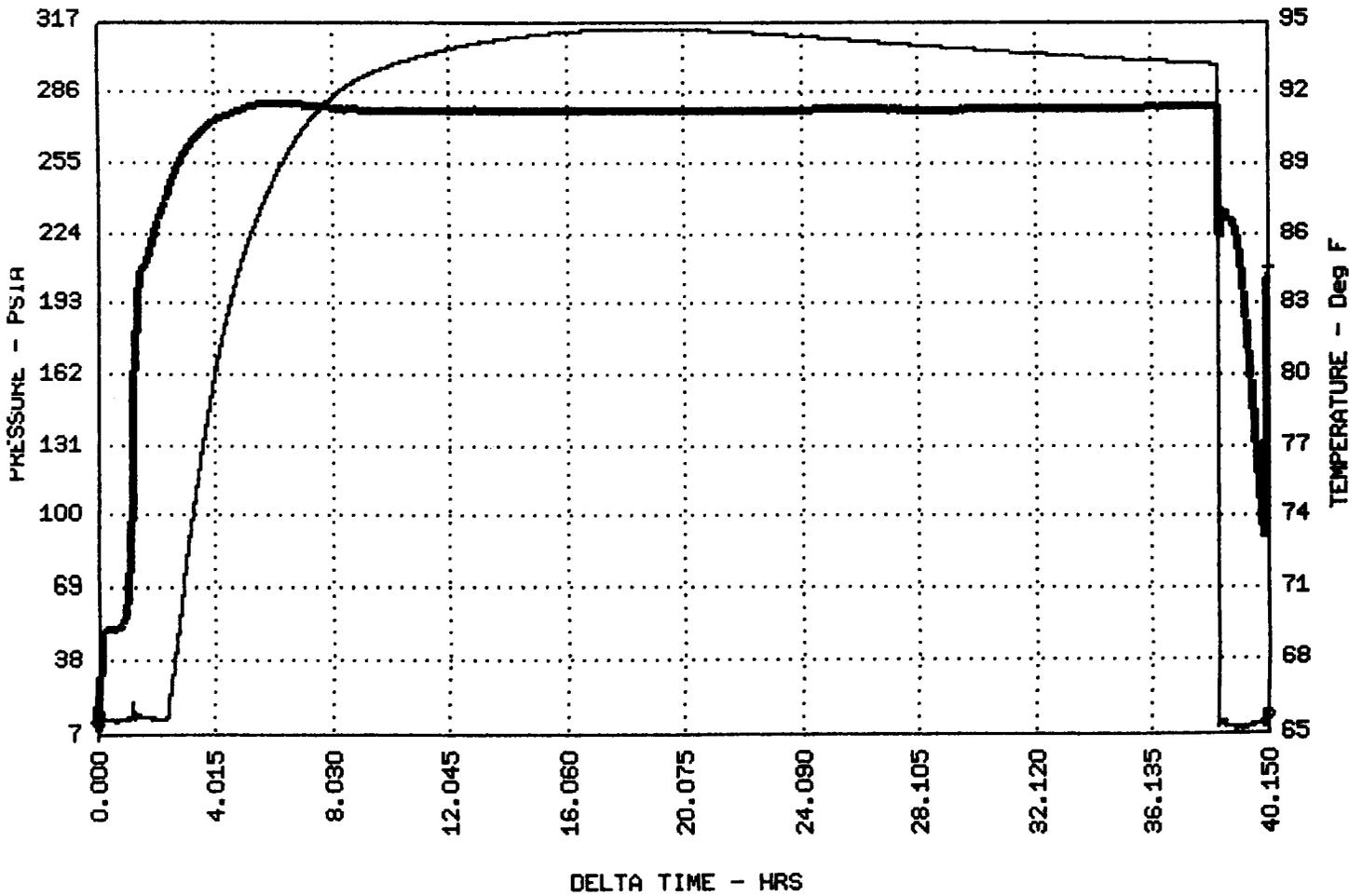
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING DATE
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.	WATER BBLs.				
FRIDAY 8-5-94	(CONTD)																
1320									6			31.73					
1325									6			31.73					
1330									6			31.73					
1335									6			31.73					
1340									6			31.73					
1345									6			31.73					
1350									6			31.73					
1355									6			31.73					
1400									6			31.73					
1405									6			31.73					END FLOW TEST. PREPARE TO RUN DST #21.
1620																	SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING.
																	(COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROVE 'A' LIME (2803-2853), COUNCIL GROVE B-1 (2853-2888), COUNCIL GROVE B-2 (2888-2908), AND COUNCIL GROVE B-3 & B-4 (2908-2940).
1625									6			31.73					
1630									6			31.73					
1635									6			31.73					
1640									6			31.73					
1645									6			31.73					
1650									6			31.73					
1655									6			31.73					
1700									6			31.73					
1705									6			31.73					
1710									6			31.73					
1715									6			31.73					
1720									6			31.73					



# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: COMINGLED C. G. (2788-2960)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2798'.

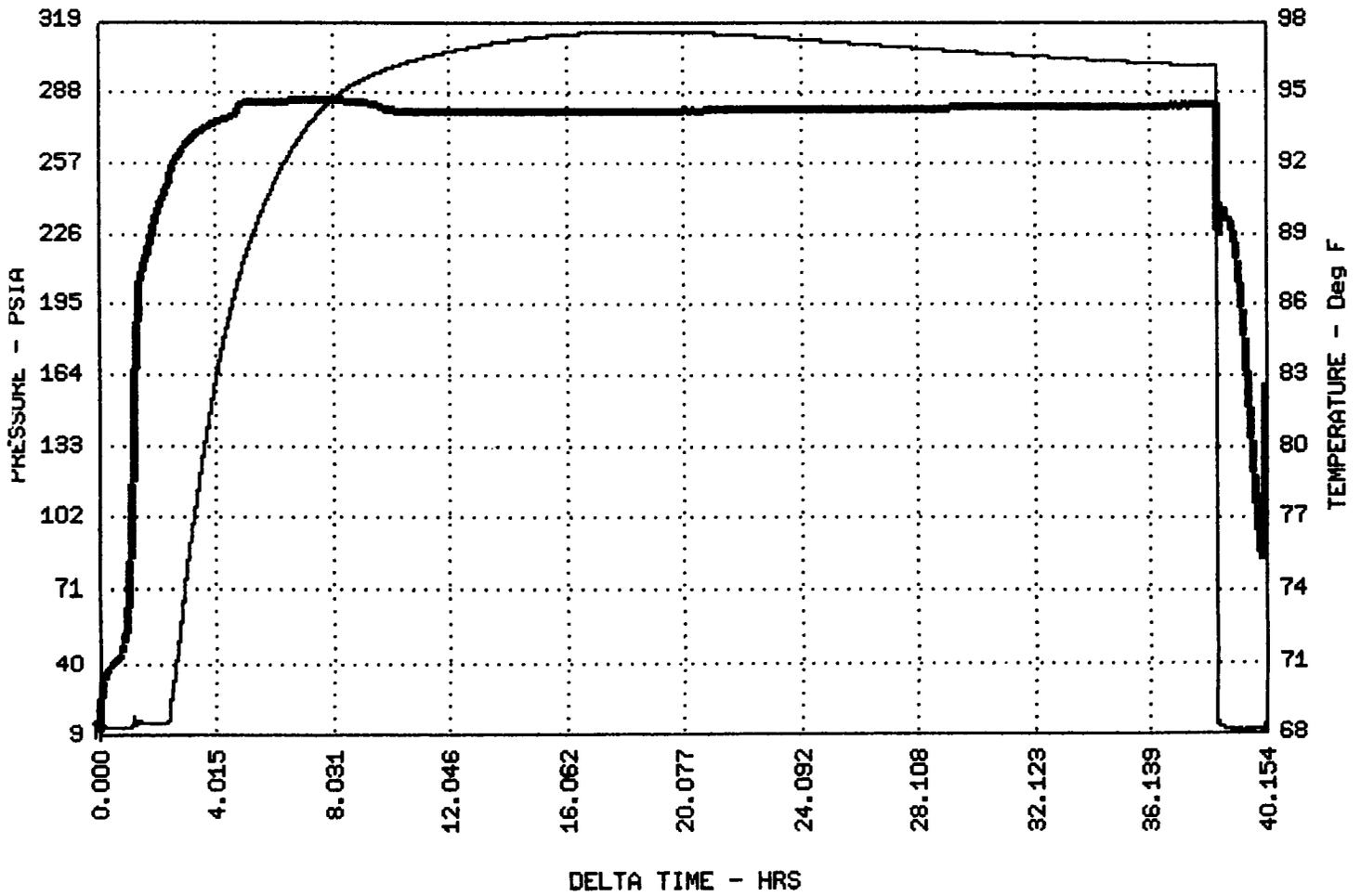
Starting date: 08/07/94  
time: 01:15:00



# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: COMINGLED C. G. (2788-2960)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2802'.

Starting date: 08/07/94  
time: 01:15:00



NATURAL GAS ANALYSIS REPORT

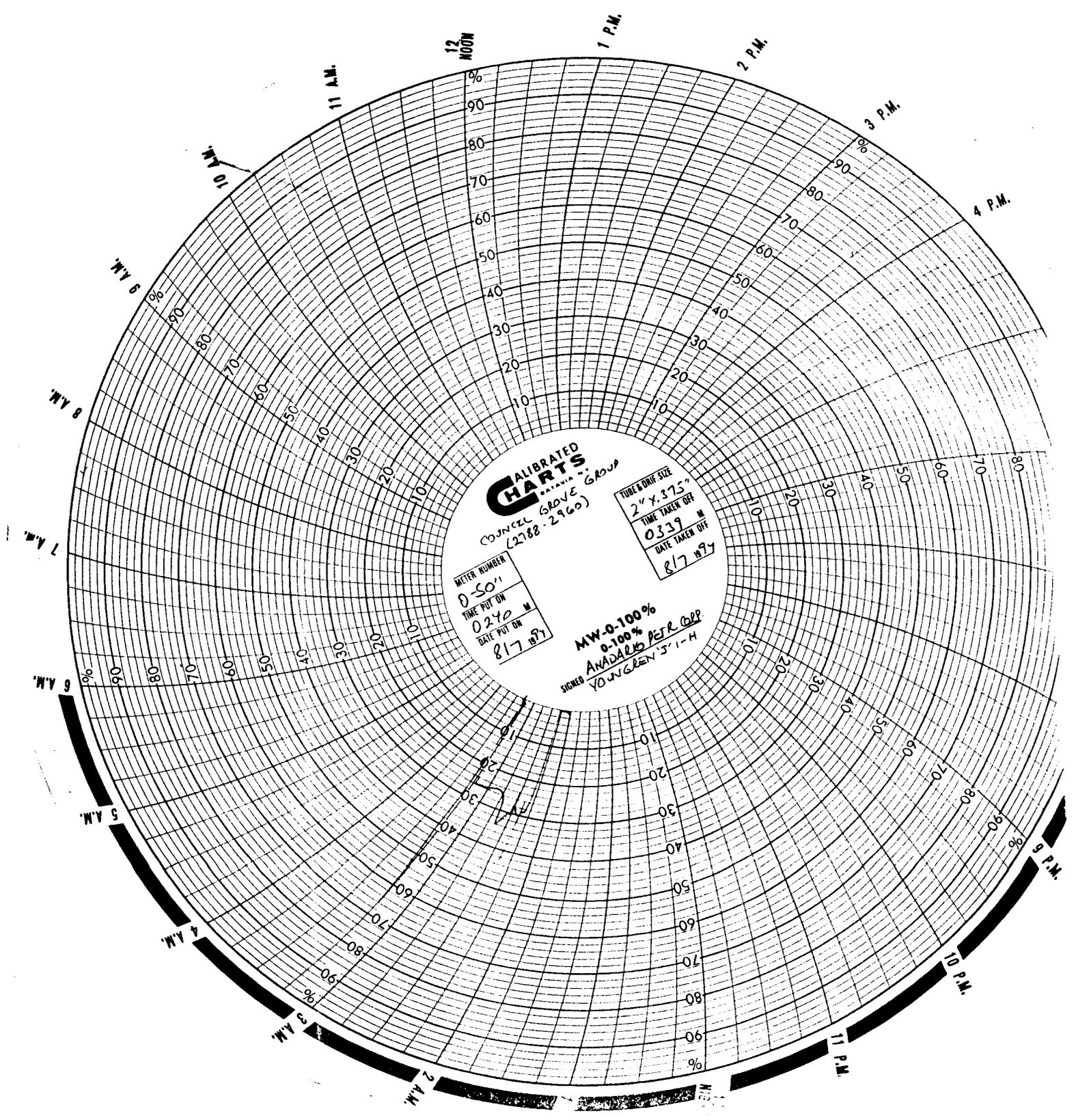
Sampled by:  
 Trilobite Testing, L.L.C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

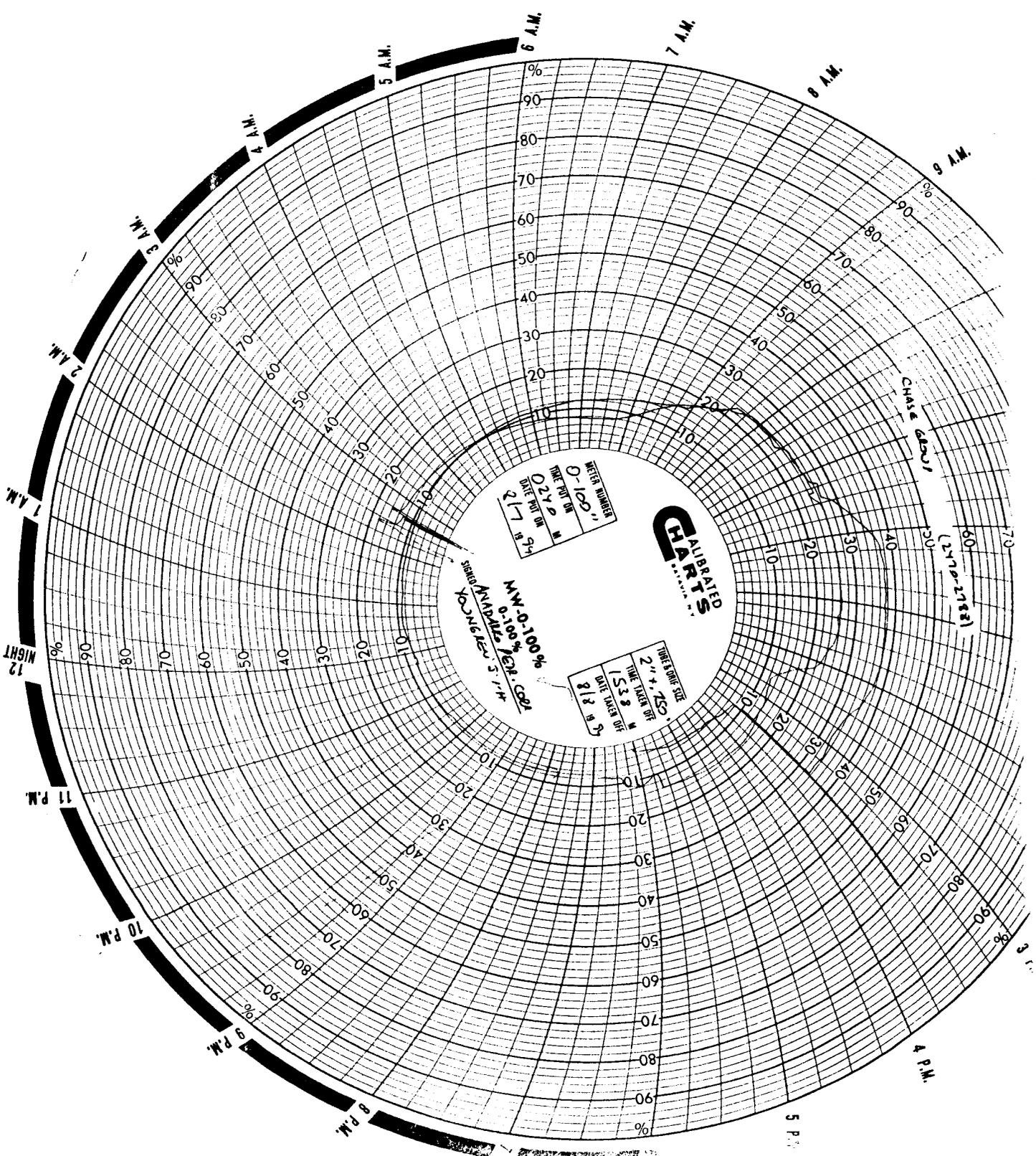
Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

-----  
 Lab Number: 940393 Analyzed: 08/07/94  
 Sample From: Youngren 'J' 1-H DST 22 Pressure:  
 Producer: Anadarko Temperature:  
 Date: Location: 4-33-38W  
 Time: County: Stevens  
 Sampler: State: Kansas  
 Source: Formation: Council  
 -----  
 Grove

		Mole %	GPM
Helium	He:		0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	16.756	0.000
Carbon Dioxide	CO2:	0.108	0.000
Methane	C1:	72.198	0.000
Ethane	C2:	5.991	1.602
Propane	C3:	3.264	0.899
Iso Butane	iC4:	0.389	0.127
Normal Butane	nC4:	0.830	0.262
Iso Pentane	iC5:	0.110	0.040
Normal Pentane	nC5:	0.163	0.059
Hexanes Plus	C6+:	0.191	0.083
	TOTAL:	100.000	3.073
	Z Fact:	0.9977	
	SP.GR.:	0.7145	
	BTU (SAT):	965.2 @ 14.73 psia	
	BTU (DRY):	982.3 @ 14.73 psia	
	OCTANE RATING:	104.5	

-----  
 COMMENTS: Sample Entered under vacuum  
 Insufficient pressure for helium analysis





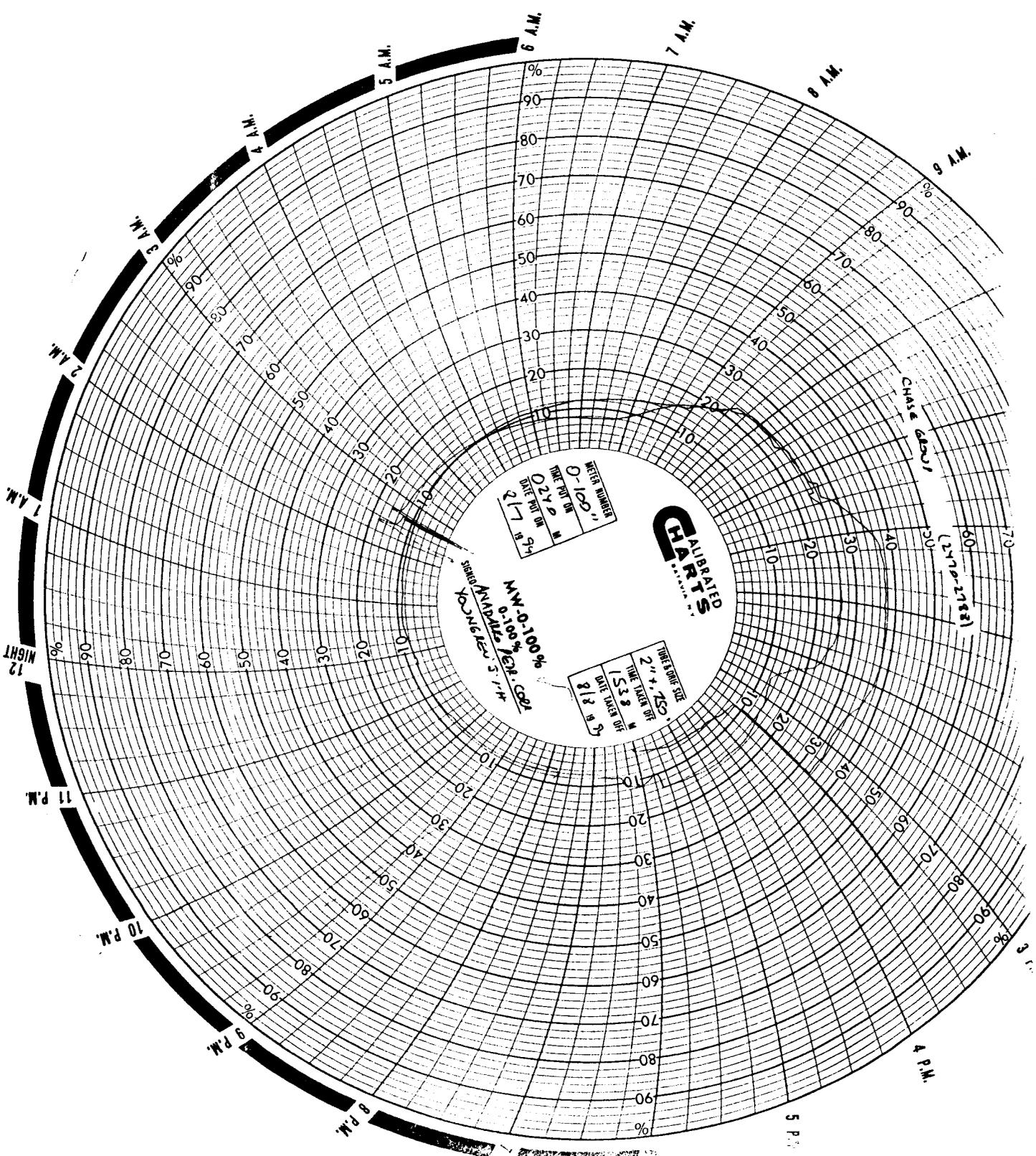
WATER NUMBER  
 0-100  
 TIME FOR IN  
 0.24 P  
 DATE FOR IN  
 2/7 94

WATER NUMBER  
 2-100  
 TIME FOR IN  
 1.53 P  
 DATE FOR IN  
 8/8 67

WATER NUMBER  
 0-100  
 TIME FOR IN  
 0.24 P  
 DATE FOR IN  
 2/7 94

CALIBRATED  
 CHARTS

MAY 10 1967



**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905-1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS. 2788 TO 2960 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7145 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR COUNCIL GROVE  
 GROUP

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL ANNUAL	SPECIAL RETEST	ENDING DATE	
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.S.	WATER BBL.S.					REMARKS PERTINENT TO TEST DATA QUALITY
SATURDAY 8-6-94																		
1940																		START IN WELL WITH BIT.
2100																		BIT ON BOTTOM, START CIRCULATING.
2305																		START OUT OF WELL WITH BIT.
SUNDAY 8-7-94																		
0045																		BIT ON SURFACE.
0115																		POWERED UP GRC EMS-725 INSTRUMENTS.
0119																		START IN WELL WITH INSTRUMENTS.
0238																		INSTRUMENTS ON BOTTOM.
																		BOTTOM OF TOP PACKER - 2782'
																		BOTTOM OF BOTTOM PACKER - 2788'
																		BOTTOM OF UPPER GAUGE - 2798'
																		BOTTOM OF LOWER GAUGE - 2802
0240																		SET PACKER.
0240																		START FLOW PERIOD WITH 2" O.W.T. AND 3/8" PLATE.
0245																		GAS VOLUMES CORRECTED TO A .7145 GRAVITY.
0250																		15.0 12.74
0255																		15.0 12.74
0300																		14.5 12.51
0305																		14.0 12.28
0310																		13.0 11.82
0315																		12.5 11.59
																		12.5 11.59





**Precision Well Testing**

P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_ ● \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.	WATER BBLs.	TEST:	ANNUAL	RETEST	DATE
SATURDAY 8-6-94																	8-8-94
	1835																
	1840								24		63.44						
	1845								27		67.32						
	1850								27		67.32						
	1855								27		67.32						
	1900								27		67.32						
	1905								27		67.32						
	1910								27		67.32						
	1915								27		67.32						
	1920								27		67.32						
	1925								27		67.32						
	1930								27		67.32						
	1935								27		67.32						
SUNDAY 8-7-94																	
	0240																
	0245								14		48.66						

REMARKS PERTINENT TO TEST DATA QUALITY

GAS CORRECTED TO A .720 GRAVITY.

RUN 1 STAND DRILLPIPE IN WELL.  
 INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED).  
 INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING.  
 (COMINGLED GAS FROM CHASE GROUP (2470-2788), COUNCIL GROVE 'A' SAND (2788-2803), COUNCIL GROUP 'A' LIME (2803-2853), COUNCIL GROVE B-1 (2853-2888), COUNCIL GROVE B-2 (2888-2908), COUNCIL GROVE B-3 & B-4 (2908-2940), AND COUNCIL GROVE B-5 (2940-2960).

END FLOW TEST. PREPARE TO RUN BIT AND CIRCULATE.

SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING.  
 (COMINGLED GAS FROM CHASE GROUP (2470-2788).

