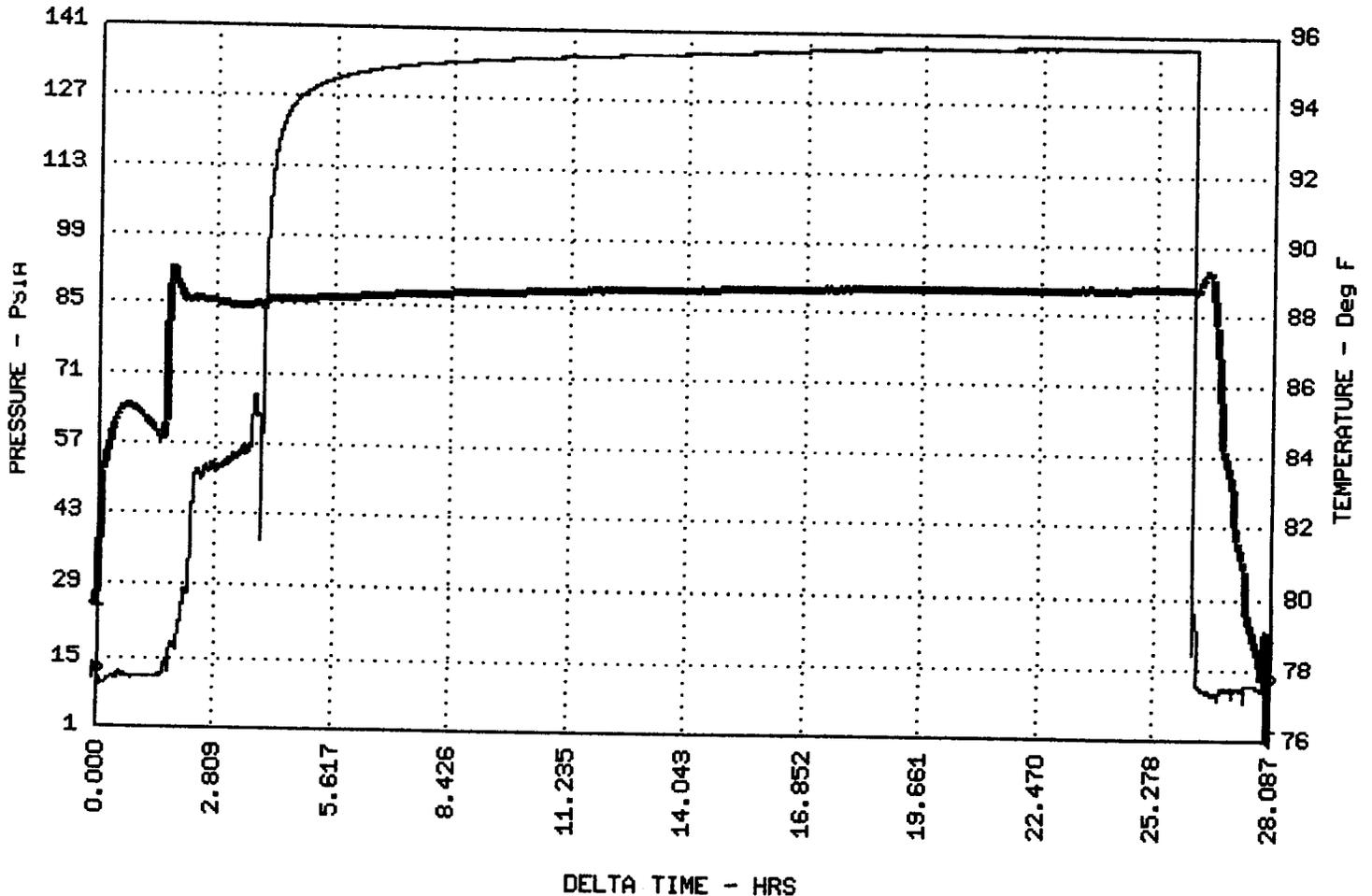


4-33-38W  
15-189-21756

# 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: HERINGTON (2470-2497)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2487'.

Starting date: 07/04/94  
time: 10:36:00

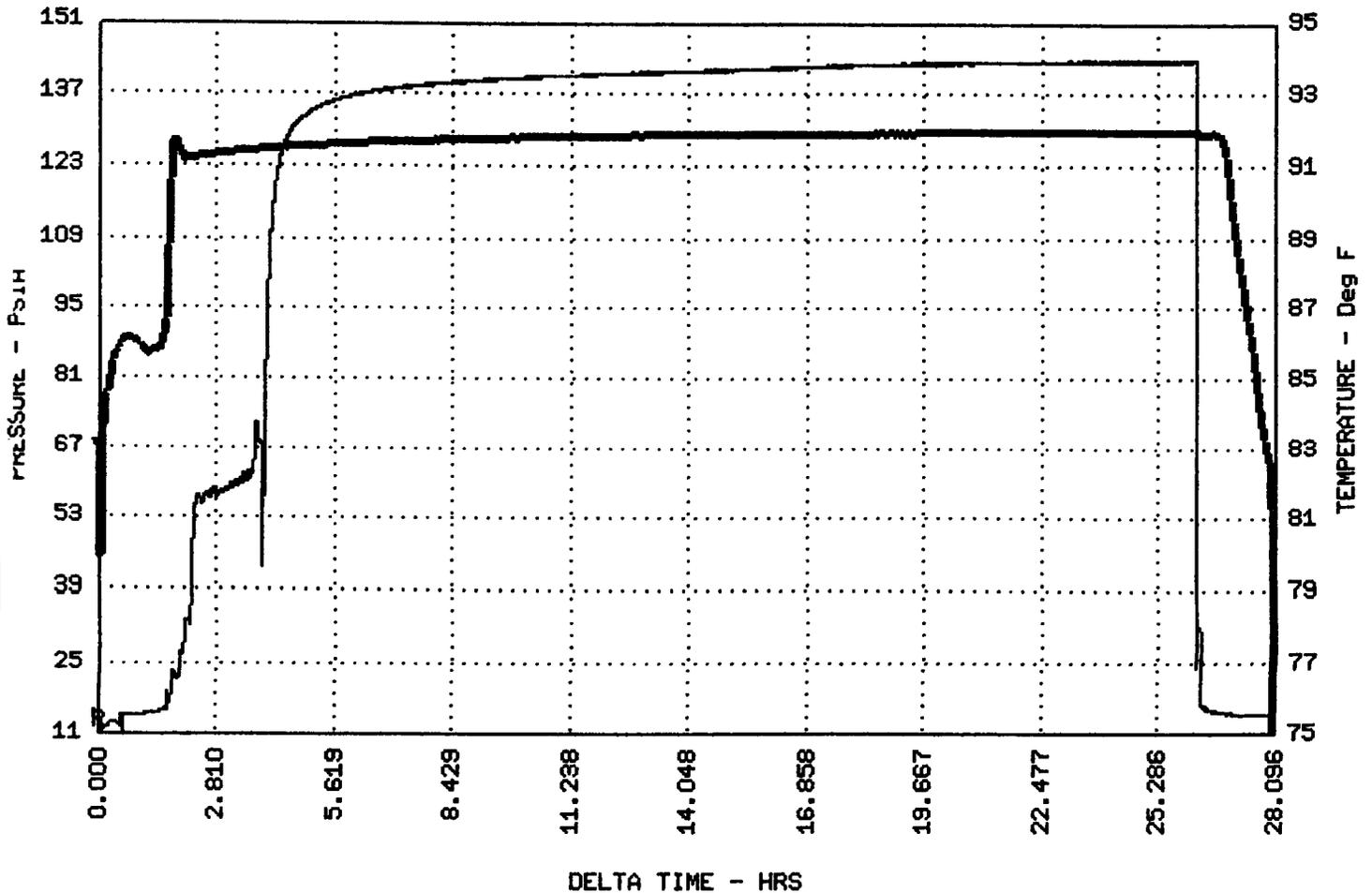


E >> 894

# 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: HERRINGTON (2470-2497)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2491'.

Starting date: 07/04/94  
time: 10:36:00



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

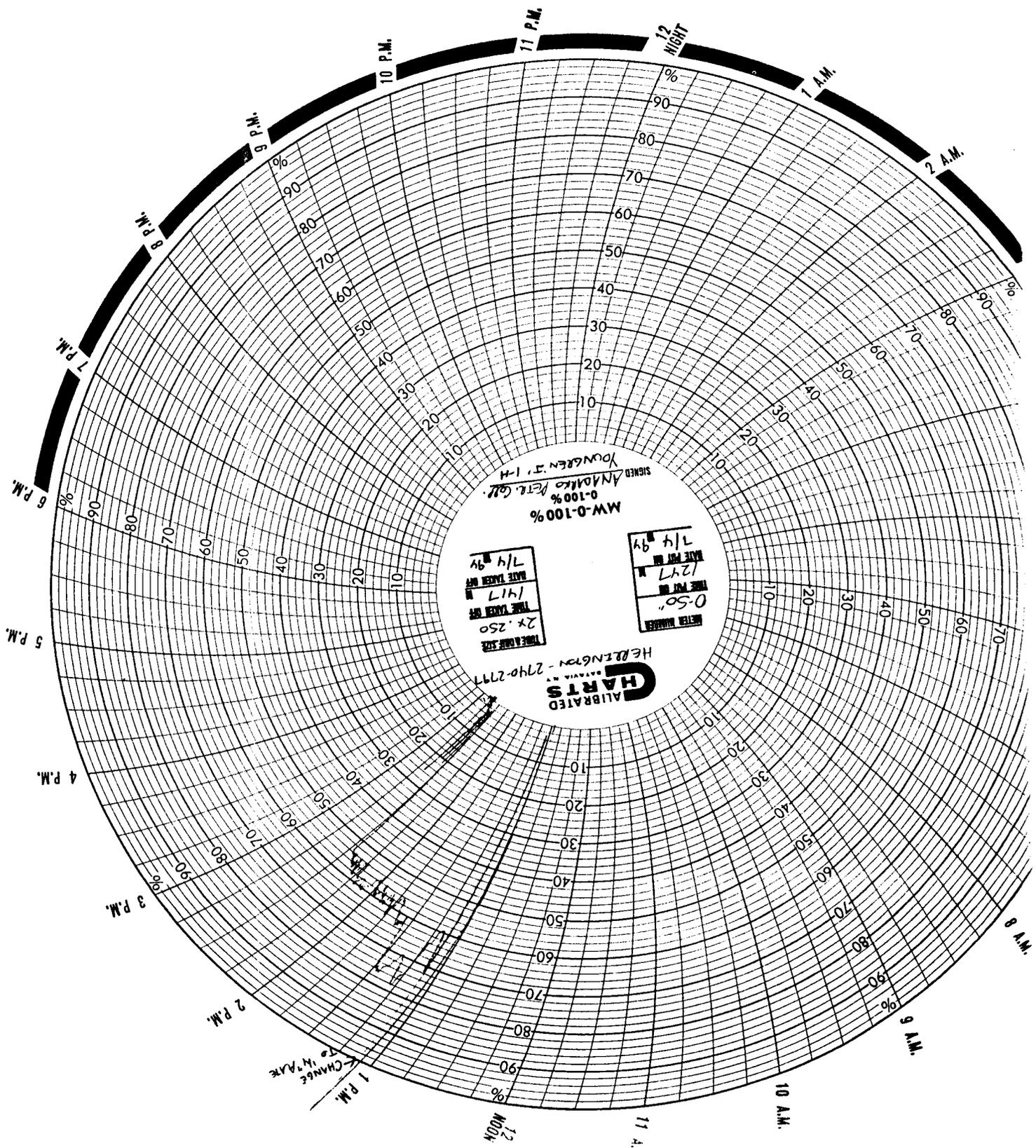
Lab Number: 940328  
 Sample From: Youngren 'J' 1-H DST 1  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/06/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Herrington

		Mole %	GPM
Helium	He:	0.000	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	13.410	0.000
Carbon Dioxide	CO2:	0.111	0.000
Methane	C1:	73.894	0.000
Ethane	C2:	6.761	1.808
Propane	C3:	3.785	1.043
Iso Butane	iC4:	0.418	0.137
Normal Butane	nC4:	0.928	0.293
Iso Pentane	iC5:	0.156	0.057
Normal Pentane	nC5:	0.189	0.068
Hexanes Plus	C6+:	0.348	0.152

TOTAL: 100.000 3.558  
 Z Fact: 0.9975  
 SP.GR.: 0.7171  
 BTU (SAT): 1023.6 @ 14.73 psia  
 BTU (DRY): 1041.7 @ 14.73 psia  
 OCTANE RATING: 108.2

COMMENTS: Sample entered under vacuum  
 Insufficient pressure for Helium analysis



← CHANGE TO 1/4 MARK

**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 2497 SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2470 TO 2497 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .717 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR HERRINGTON

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____ SPECIAL _____ ANNUAL _____ RETEST _____	ENDING DATE <u>7-5-94</u>
		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.			
<u>MONDAY 7-4-94</u>																
0315																START IN WELL WITH CORE BARREL.
0500																CORE BARREL ON BOTTOM. START CORING.
0800																FINISH CORING HERRINGTON FROM 2470-2497.
0915																CORE BARREL ON SURFACE.
1036																POWERED UP GRC EMS-725 INSTRUMENTS.
1049																START IN WELL WITH INSTRUMENTS.
1241																INSTRUMENTS ON BOTTOM.
																BOTTOM OF TOP PACKER - 2426'
																BOTTOM OF BOTTOM PACKER - 2433'
																BOTTOM OF TOP GAUGE - 2487'
																BOTTOM OF LOWER GAUGE - 2491'
1247																SET PACKER.
1247																START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE.
																(GAS VOLUME CORRECTED TO A .717 GRAVITY).
1252										30.0		2.65				
1257										50.0		3.41				CHANGE TO 1/4" PLATE.
1302										32.0		8.69				
1307										39.0		9.61				
1312										37.0		9.42				
1317	.5									38.0		9.52				GAS TO SURFACE.
1322										33.0		8.83				
1327										31.0		8.56				
1332										29.0		8.19				

Precision Well Testing

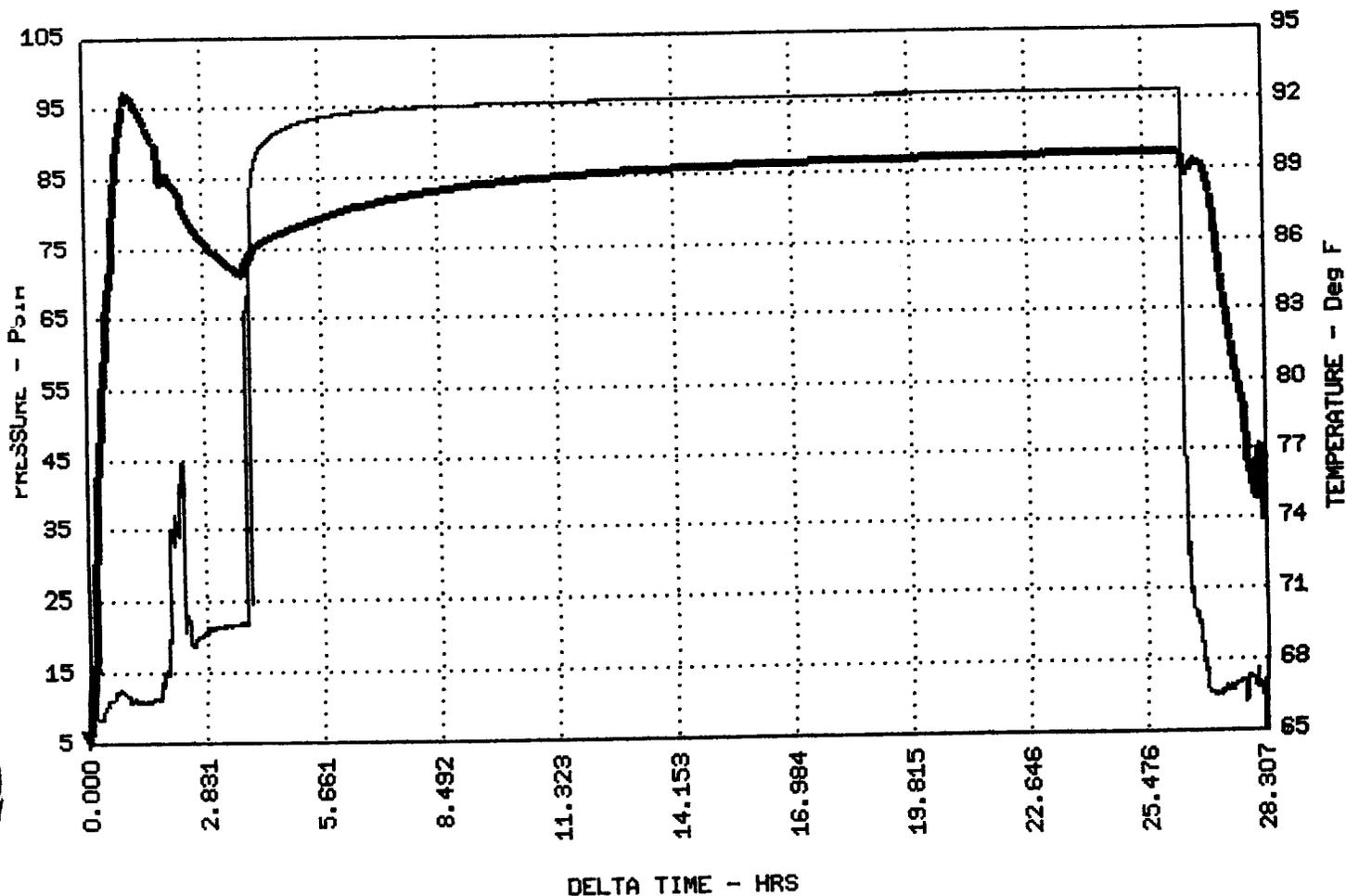
ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

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.				
MONDAY 7-4-94	(CONTD)																
1337									29.5			8.42					
1342									29.0			8.38					
1347	1.0								29.5			8.42					
1352									29.0			8.38					
1357									29.5			8.42					
1402									29.5			8.42					
1407									28.0			8.14					
1412									27.5			8.06					
1417									27.0			7.97					CLOSE DOWNHOLE SHUT-OFF. (GAS WILL NOT COMPLETELY DIE DOWN).
1431																	OPEN DOWNHOLE SHUT-OFF AND RECLOSE SHUT-OFF (SHUT-OFF VALVE DID NOT APPEAR TO HAVE FULLY CLOSED) GAS VOLUME FELL TO ZERO.
TUESDAY 7-5-94																	
1248																	START OUT OF WELL WITH INSTRUMENTS.
1436																	INSTRUMENTS ON SURFACE.
1441																	POWERED DOWN GRC EMS-725 INSTRUMENTS.
																	UPPER GAUGE (76095) ASCII FILE - YOUHR1U
																	LOWER GAUGE (72289) ASCII FILE - YOUHR1L

# 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: KRIDER (2502-2535)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2529'.

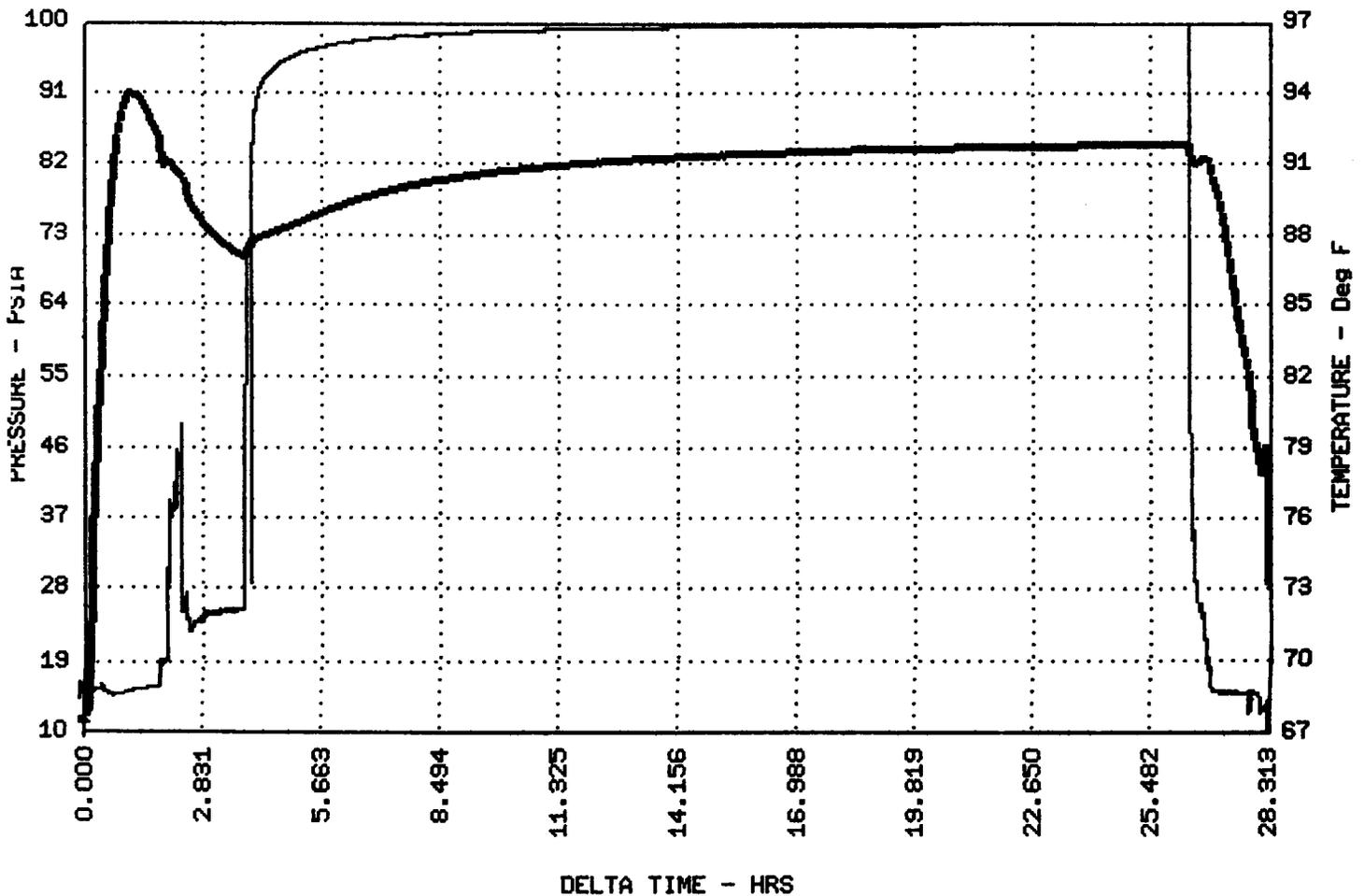
Starting date: 07/06/94  
time: 12:52:00



# 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: KRIDER (2502-2535)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2533

Starting date: 07/06/94  
time: 12:52:00



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: 940334  
 Sample From: Youngren 'J' 1-H DST 2  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/09/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Krider

	Mole %	GPM
Helium	He: 0.489	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 13.559	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 72.601	0.000
Ethane	C2: 6.879	1.840
Propane	C3: 3.970	1.094
Iso Butane	iC4: 0.458	0.150
Normal Butane	nC4: 1.090	0.344
Iso Pentane	iC5: 0.189	0.069
Normal Pentane	nC5: 0.296	0.107
Hexanes Plus	C6+: 0.469	0.205
	TOTAL: 100.000	3.808
	Z Fact: 0.9974	
	SP.GR.: 0.7259	
	BTU (SAT): 1035.6 @ 14.73 psia	
	BTU (DRY): 1053.9 @ 14.73 psia	
	OCTANE RATING: 107.2	

COMMENTS:



**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

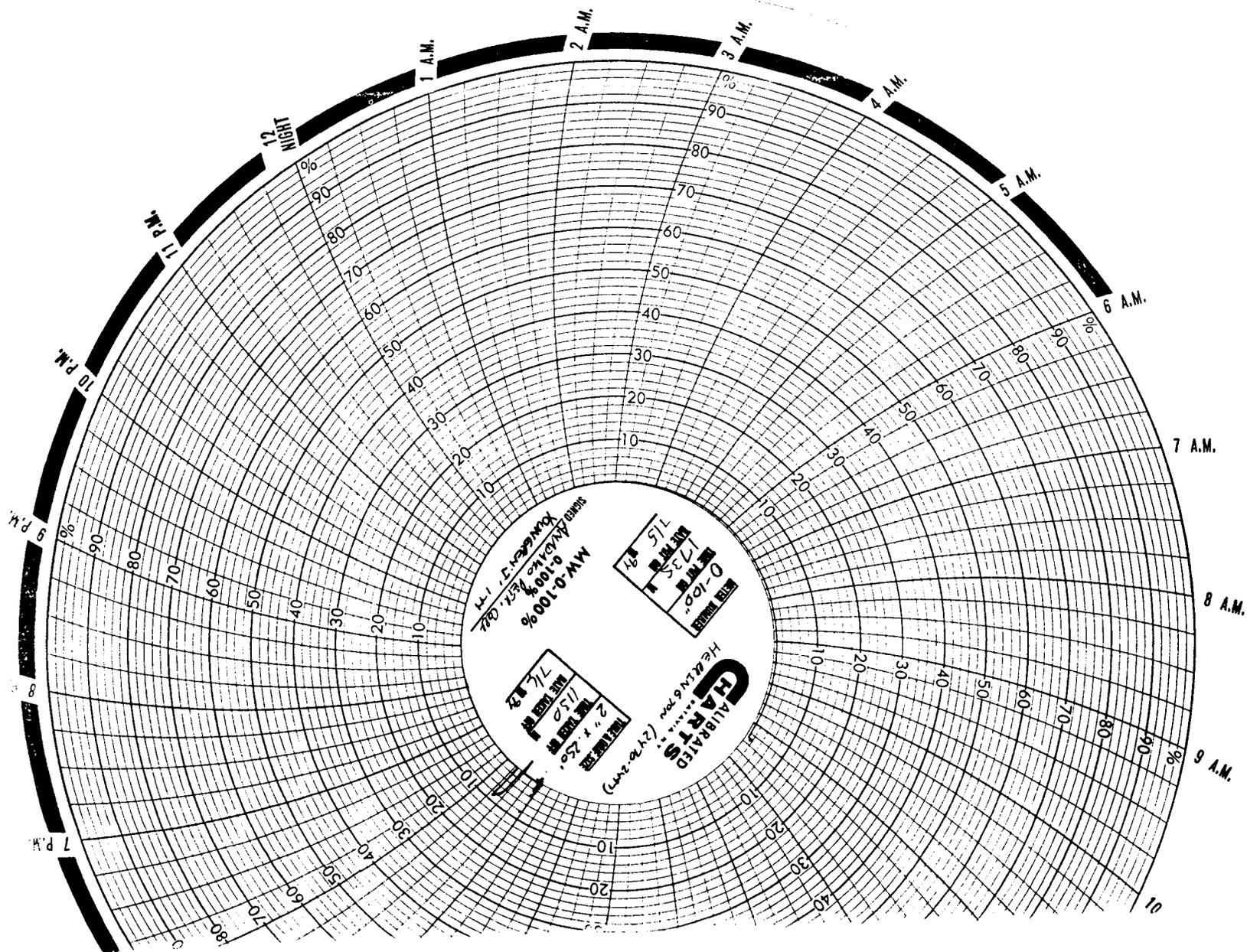
CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
PERFS 2502 TO 2535 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
GG \_\_\_\_\_ API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR KRIDER

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.					REMARKS PERTINENT TO TEST DATA QUALITY
TUESDAY 7-5-94																		
1530																		START IN WELL WITH CORE BARREL. PULL CORE BARREL OUT OF WELL.
WEDNESDAY 7-6-94																		
0430																		START IN WELL WITH CORE BARREL. CORE BARREL ON BOTTOM.
0600																		START CORING.
0630																		FINISH CORING KRIDER (2502-2535).
0800																		START OUT OF WELL WITH CORE BARREL. CORE BARREL ON SURFACE.
0930																		POWERED UP GRC EMS-725 INSTRUMENTS. START IN WELL WITH INSTRUMENTS.
1100																		INSTRUMENTS ON BOTTOM. BOTTOM OF TOP PACKER - 2501'
1252																		BOTTOM OF BOTTOM PACKER - 2508'
1317																		BOTTOM OF UPPER GAUGE - 2529'
1510																		BOTTOM OF LOWER GAUGE - 2533'
1512																		SET PACKER.
1512																		START FLOW PERIOD WITH 2" O.W.T. AND 3/8" PLATE. (GAS VOLUMES CORRECTED TO A .7259 GRAVITY).
1517										50.0		22.90						CHANGE TO 3/4" PLATE.
1522										15.0		50.18						GAS TO SURFACE.
1527										9.5		39.64						CHANGE TO 1/2" 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 <u>7-7-94</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.				
WEDNESDAY 7-6-94	(CONTD)																
1532										40.5		36.18					
1537										42.0		36.99					
1542										42.0		36.99					
1547										42.0		36.99					
1552										42.0		36.99					
1557										42.0		36.99					
1602										42.0		36.99					
1607										42.0		36.99					
1612										42.0		36.99					
1617										42.0		36.99					
1622										42.0		36.99					
1627										42.0		36.99					
1632										42.5		37.28					
1637										42.5		37.28					
1643										42.5		37.28					CLOSE DOWNHOLE SHUT-OFF (GAS WILL NOT COMPLETELY DIE DOWN). OPEN DOWNHOLE SHUT-OFF AND RE-CLOSE SHUT-OFF (SHUT-OFF VALVE DID NOT APPEAR TO HAVE FULLY CLOSED). GAS VOLUME FELL TO ZERO.
THURSDAY 7-7-94																	
1514																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS. INSTRUMENTS ON SURFACE.
1707																	POWERED DOWN GRC EMS-725 INSTRUMENTS
1710																	
																	UPPER GAUGE (76095) ASCII FILE - YOUNKR1U
																	LOWER GAGUE (72289) ASCII FILE - YOUNKR1L





**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
TUESDAY 7-5-94																	
1730																	
1735									4.0		3.08						
1740									4.0		3.08						
1745									4.0		3.08						
WEDNESDAY 7-6-94																	
0800																	
1135																	
1140									18.0		6.50						
1145									32.0		8.67						
1150									58.0		11.68						
1155									72.0		13.05						
1200									98.0		15.15						
1205									100.0		15.34						
1210									89.0		30.67						
1215									84.0		29.76						

REMARKS PERTINENT TO TEST DATA QUALITY

GAS VOLUMES CORRECTED TO A .720 GRAVITY

CORE BARREL AT 2380'  
 INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED)  
 INSTALL 2" O.W.T. WITH 1/4" PLATE DIRECTLY OFF CASING  
 (GAS FROM HERRINGTON ) (2470-2497)

RELEASE PRESSURE FROM DRILLPIPE AND CASING.  
 CONTINUE IN HOLE WITH DRILLPIPE.

FINISH CORING KRIDER (2502-2535)

FINISH PULLING CORE BARREL. RUN 1 STAND DRILLPIPE IN HOLE  
 INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED)  
 INSTALL 2" O.W.T. WITH 1/4" PLATE INSTALLED DIRECTLY OFF CASING

(COMMINGLED GAS FROM HERRINGTON (2470-2497) AND KRIDER (2502-2535).

CHANGE TO 3/8" PLATE.

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

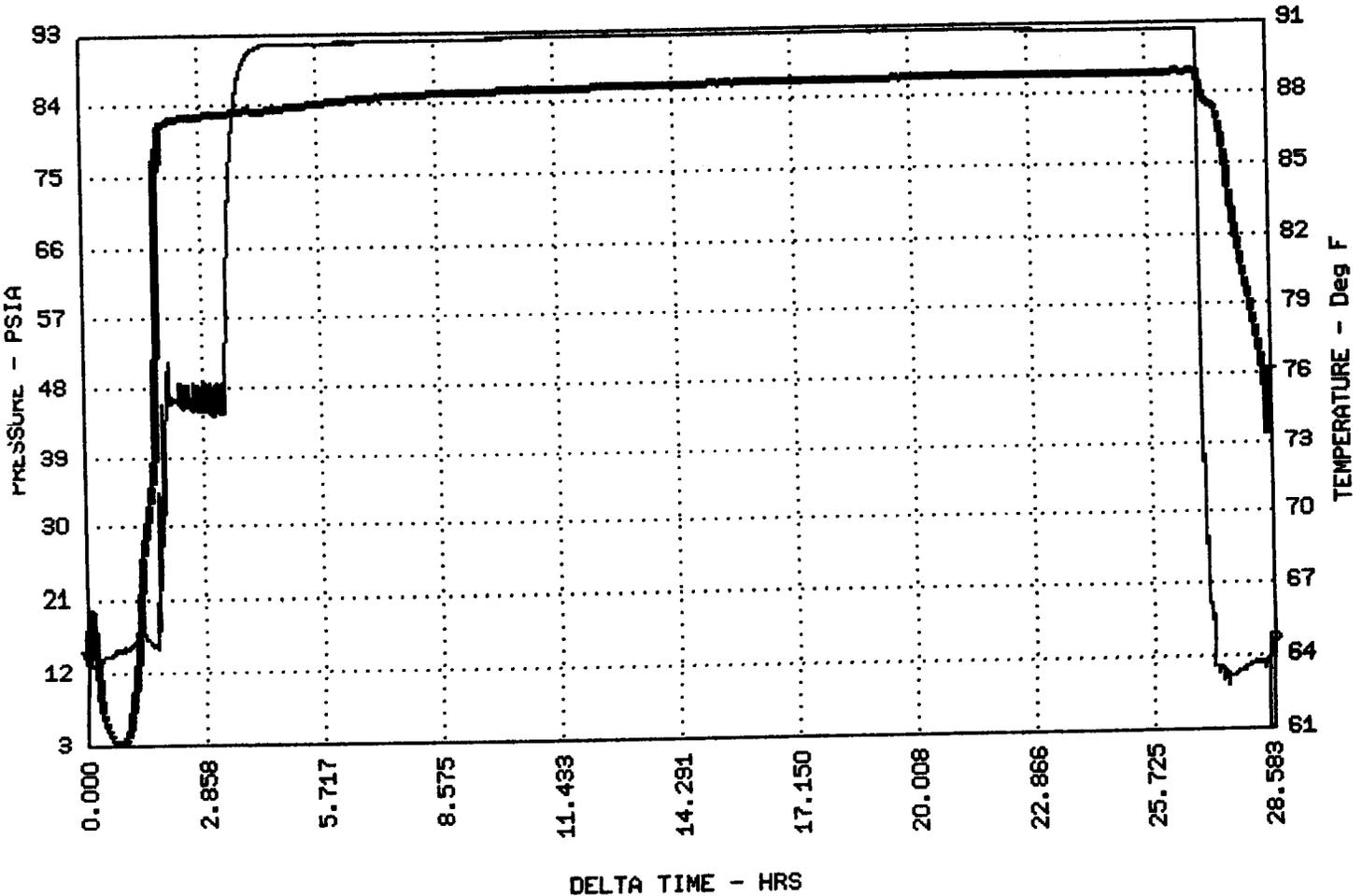
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	O MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
WEDNESDAY 7-6-94 (CONTD)																	7-7-94
1225									76.0		28.30						
1230									75.0		28.12						
1235									74.0		27.93						
1240									74.0		27.93						
1245									75.0		28.12						
1250									75.0		28.12						
1255									76.0		28.30						
1300									77.0		28.48						END COMINGLED FLOW TEST. PREPARE TO START IN HOLE FOR DST #2.
1512																	SET PACKERS. INSTALL 2" O.W.T. WITH 1/4" PLATE DIRECTLY OFF CASING (HERRINGTON 2470-2497).
1517									56.0		11.50						
1522									36.0		9.22						
1527									27.0		7.94						
1532									16.0		6.13						
1537									12.0		5.35						
1542									8.0		4.35						
1547									7.0		4.06						
1552									6.0		3.76						
1557									6.0		3.76						
1602									6.0		3.76						
1607									6.0		3.76						
1612									6.0		3.76						
1617									6.0		3.76						
1627									6.0		3.76						
1632									6.0		3.76						



# 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: ODELL (2535-2552)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2547'.

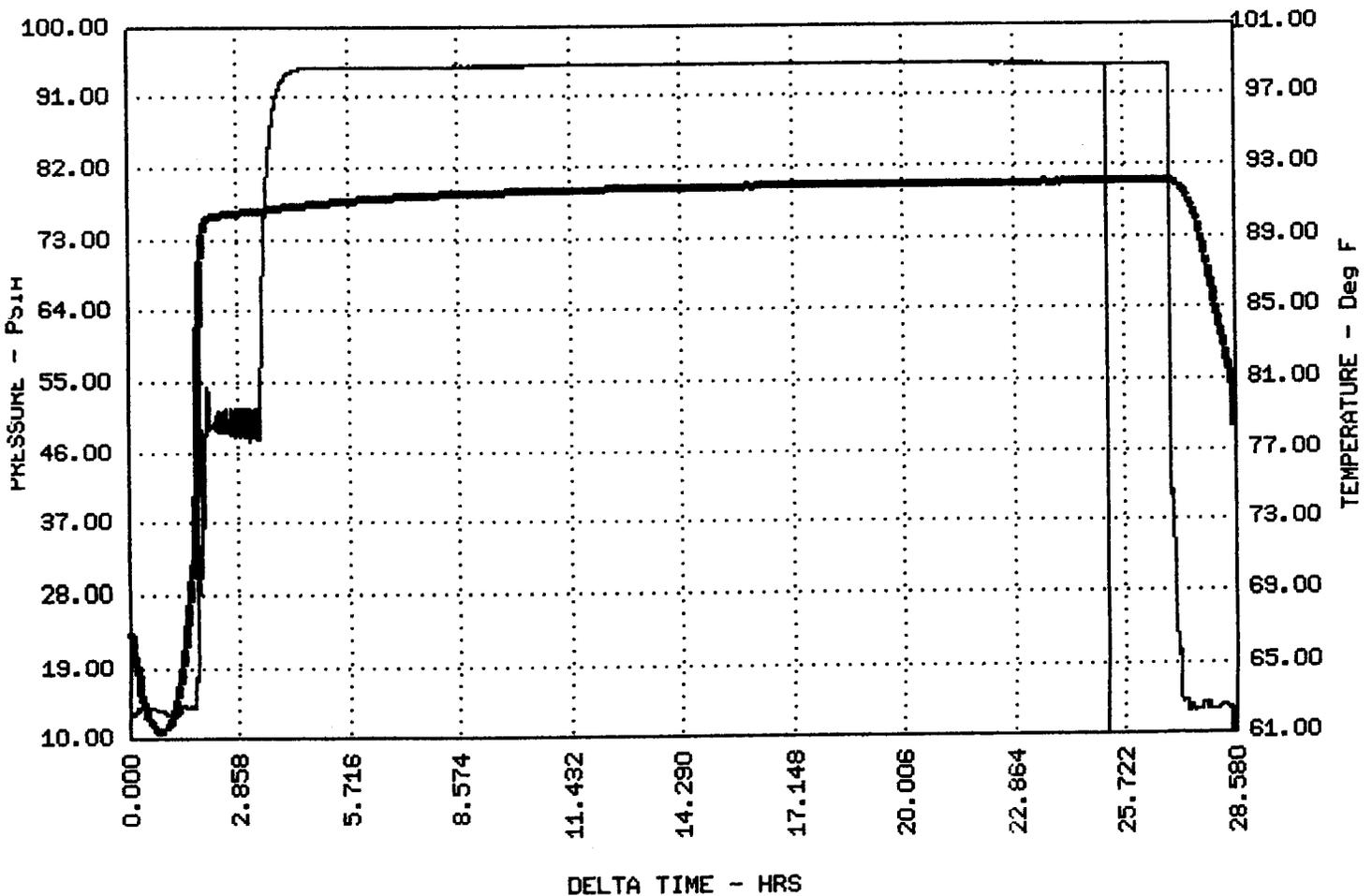
Starting date: 07/08/94  
time: 06:05:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: ODELL (2535-2552)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2551'.

Starting date: 07/08/94  
time: 06:05:03



## 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: 940340B  
 Sample From: Youngren 'J' 1-H DST 3  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/11/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Odell

	Mole %	GPM
Helium	He: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 68.520	0.000
Carbon Dioxide	CO2: 0.823	0.000
Methane	C1: 25.532	0.000
Ethane	C2: 2.358	0.631
Propane	C3: 1.472	0.406
Iso Butane	iC4: 0.209	0.068
Normal Butane	nC4: 0.511	0.161
Iso Pentane	iC5: 0.047	0.017
Normal Pentane	nC5: 0.138	0.050
Hexanes Plus	C6+: 0.390	0.170
TOTAL:		100.000
Z Fact:		0.9991
SP.GR.:		0.8960
BTU (SAT):		382.0 @ 14.73 psia
BTU (DRY):		388.8 @ 14.73 psia
OCTANE RATING:		37.9

COMMENTS: Sample entered under vacuum  
 Insufficient pressure for Helium analysis  
 Air caluclated out

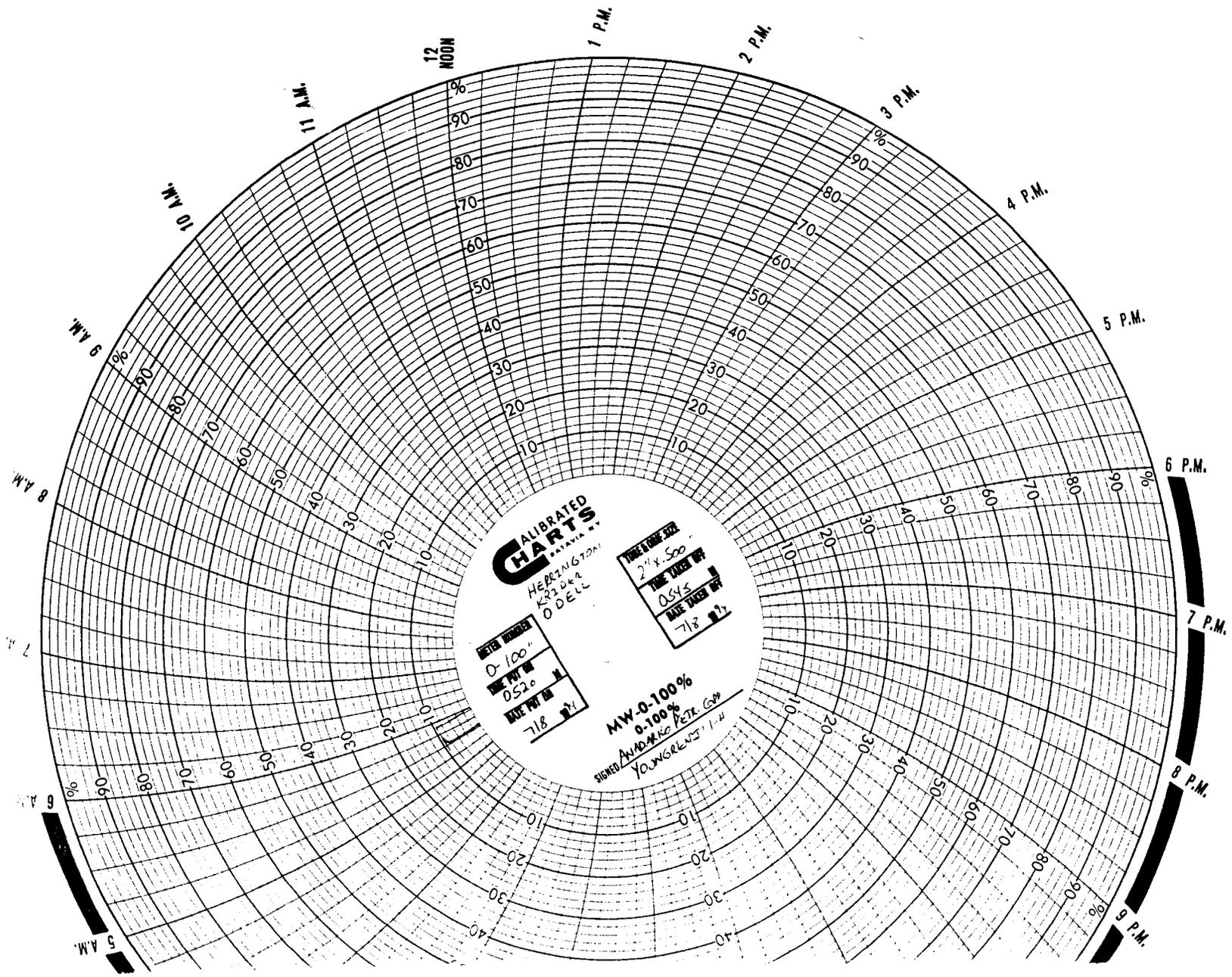


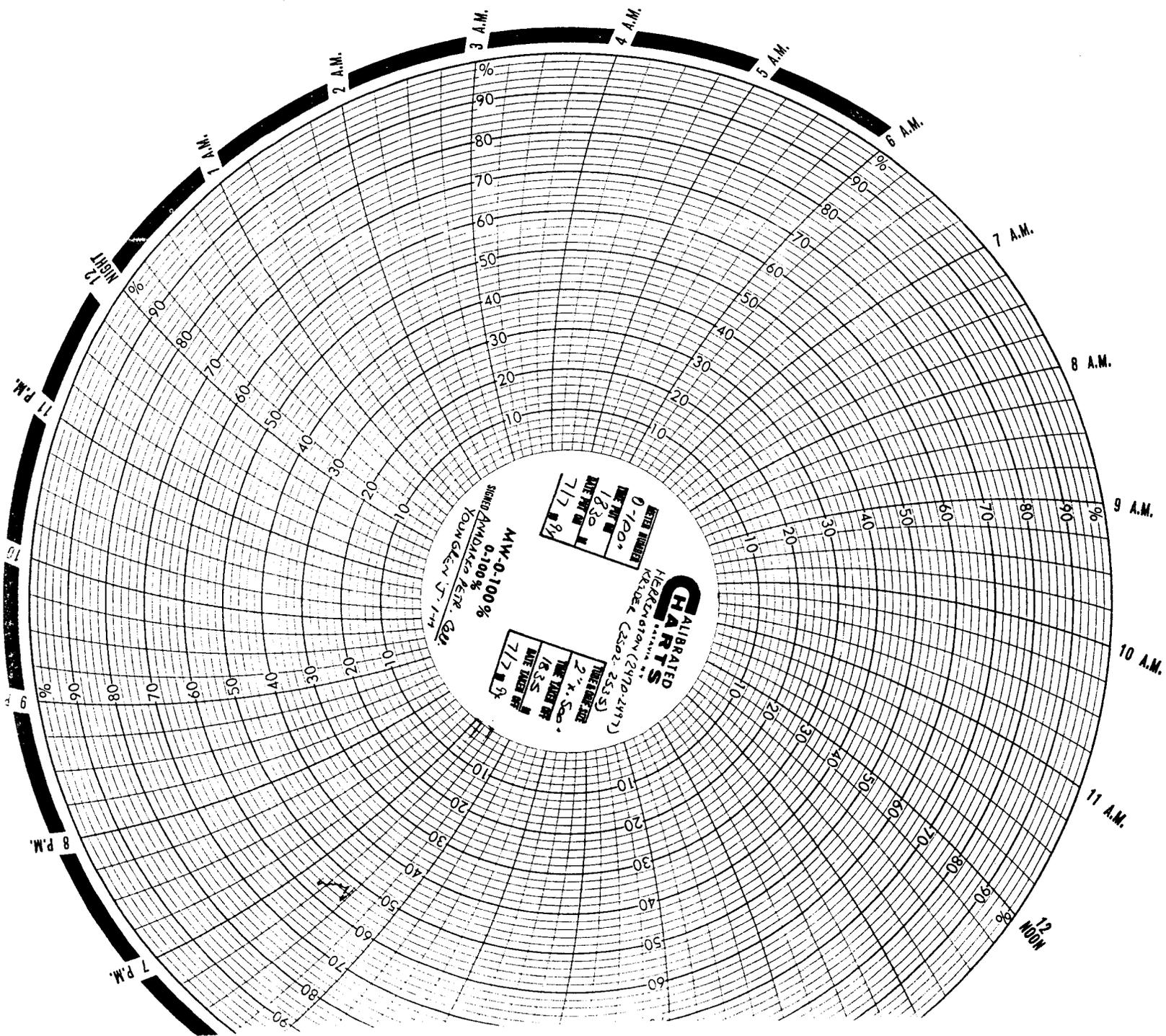


Precision Well Testing

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 _____	
		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.					ANNUAL _____
FRIDAY 7-8-94	(CONT'D)																	REMARKS PERTINENT TO TEST DATA QUALITY
0830										11.5		1.42						
0835										12.0		1.44						
0840										12.5		1.48						
0845										13.0		1.51						
0850										14.0		1.56						
0855										14.5		1.59						
0900										14.5		1.59						
0905										14.0		1.56						
0910										14.0		1.56						
0915										14.0		1.56						
0920										14.0		1.56						
0925										14.0		1.56						
0931										14.0		1.56						CLOSE DOWNHOLE SHUT-OFF.
SATURDAY 7-9-94																		
0759																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
1036																		INSTRUMENTS ON SURFACE.
1041																		POWERED DOWN GRC EMS-725 INSTRUMENTS.
																		UPPER GAUGE (76095) - YOUOD1U
																		LOWER GAUGE (72289) - YOUOD1L





**CALIBRATED CHARTS**  
 HEERKINDEN, INC.  
 KENNESAW, GA. (2490-2497)  
 (2490-2535)

0-100%  
 1830  
 DATE 7/7/89  
 TIME 10:00 AM  
 2" x 5 1/2"  
 1835  
 DATE 7/7/89  
 TIME 10:00 AM

SIGNED AMANDA FERN, QM  
 YOUNG GLEN UTILITY

12 MIDDNIGHT 1 A.M. 2 A.M. 3 A.M. 4 A.M. 5 A.M. 6 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. 9 P.M. 10 P.M. 11 P.M. 12 MIDDNIGHT



**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. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
THURSDAY 7-7-94																	7-9-94
															REMARKS PERTINENT TO TEST DATA QUALITY		
1830															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 1/2" PLATE DIRECTLY OFF CASING.		
															(COMINGLED GAS FROM HERRINGTON (2470-2497) AND KRIDER (2502-2535).		
1835									54.0		42.09						
1840									53.0		40.89						
1845									54.0		42.09						
1850									56.0		42.81						
1855									56.0		42.81				END FLOW. PREPARE TO RUN CORE BARREL.		
FRIDAY 7-8-94																	
0520															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING.		
															(COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), AND ODELL (2535-2552).		
0525									4.0		11.41						
0530									7.0		15.24						
0535									9.0		17.16						
0540									9.0		17.16						
0545									10.0		18.17				END COMINGLED FLOW TEST. PREPARE TO RUN IN WELL FOR DST #3.		
0800															SET PACKER. INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING.		

**Precision Well Testing**

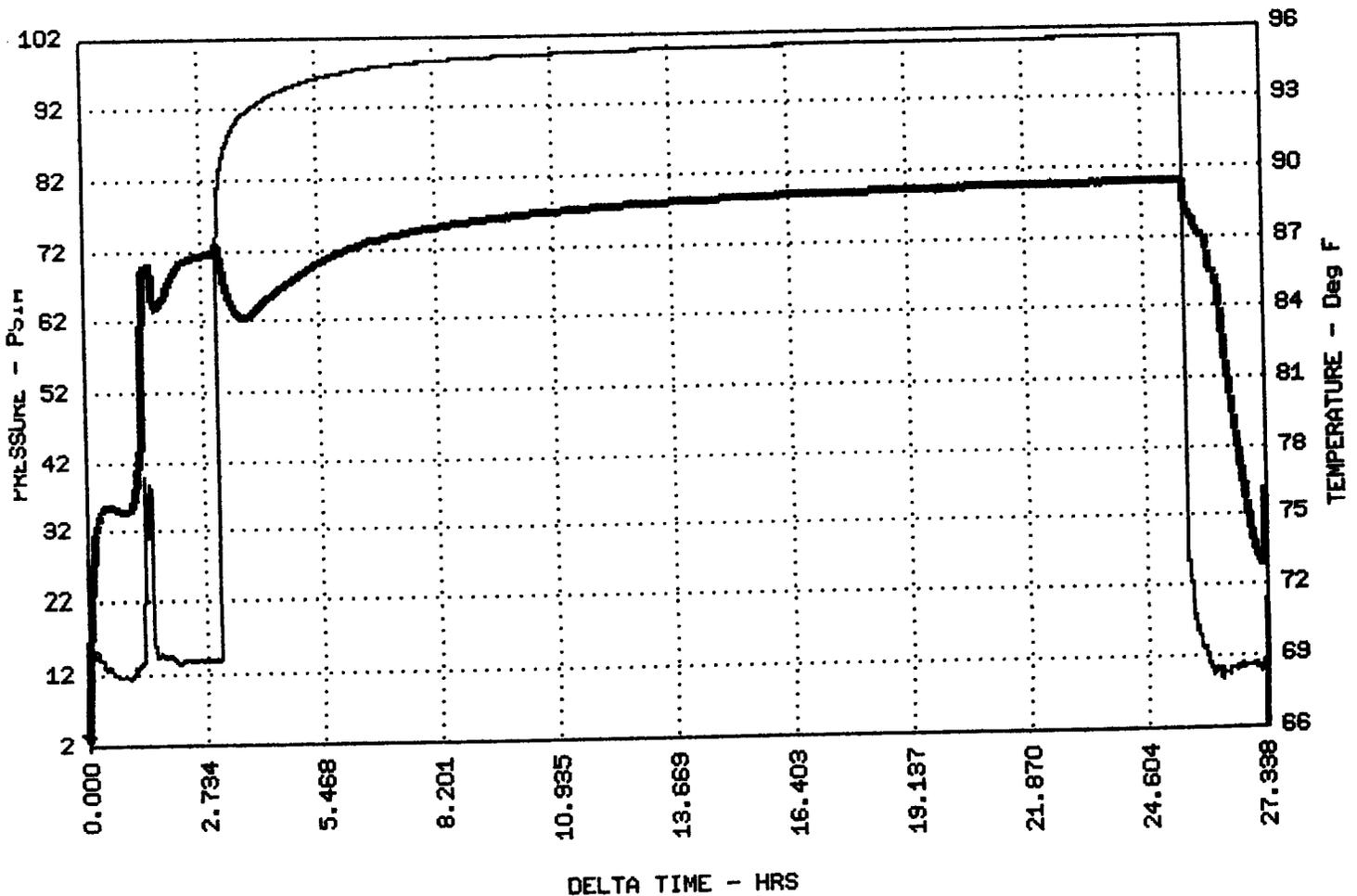
ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST: _____ ANNUAL _____ RETEST _____ DATE <u>7-9-94</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.	
FRIDAY 7-8-94	(CONTD)													REMARKS PERTINENT TO TEST DATA QUALITY
0800														(COMINGLED HERRINGTON (2470-2497) AND KRIDER (2502-2535))
0805									3.0		9.95			
0810									4.0		11.41			
0815									4.0		11.41			
0820									5.0		12.87			
0825									5.0		12.87			
0830									5.0		12.87			
0835									5.0		12.87			
0840									5.0		12.87			
0845									5.0		12.87			
0850									6.0		14.06			
0855									6.0		14.06			
0900									6.0		14.06			
0905									6.0		14.06			
0910									6.0		14.06			
0915									6.0		14.06			
0920									6.0		14.06			
0925									6.0		14.06			
0930									6.0		14.06			
SATURDAY 7-9-94														
0000									28.0		30.31			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: WINFIELD SAND (2552-2559)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2553'.

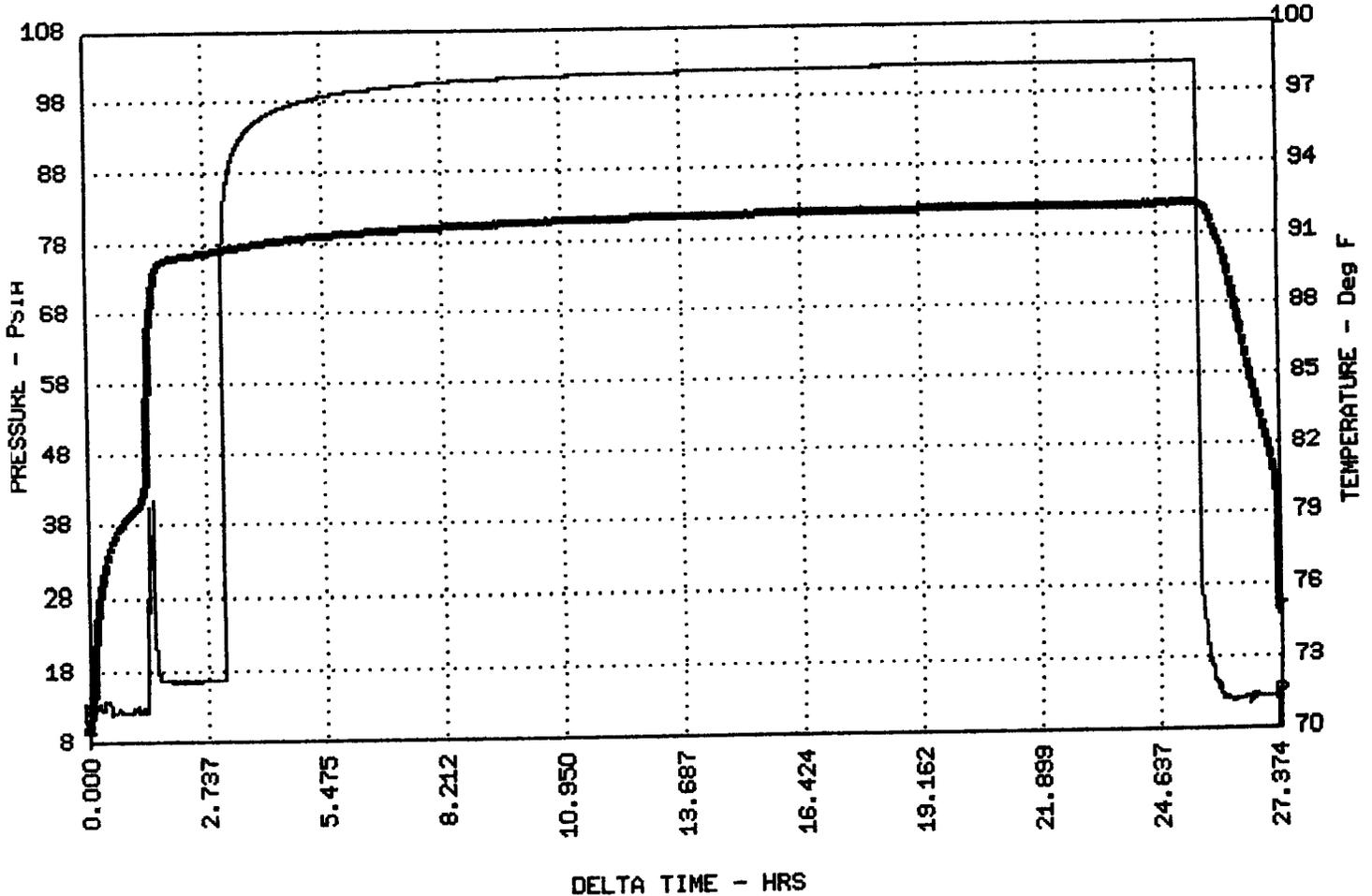
Starting date: 07/09/94  
time: 21:24:24



# 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: WINFIELD SAND (2552-2559)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2557'.

Starting date: 07/09/94  
time: 21:24:00



# NATURAL GAS ANALYSIS REPORT

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

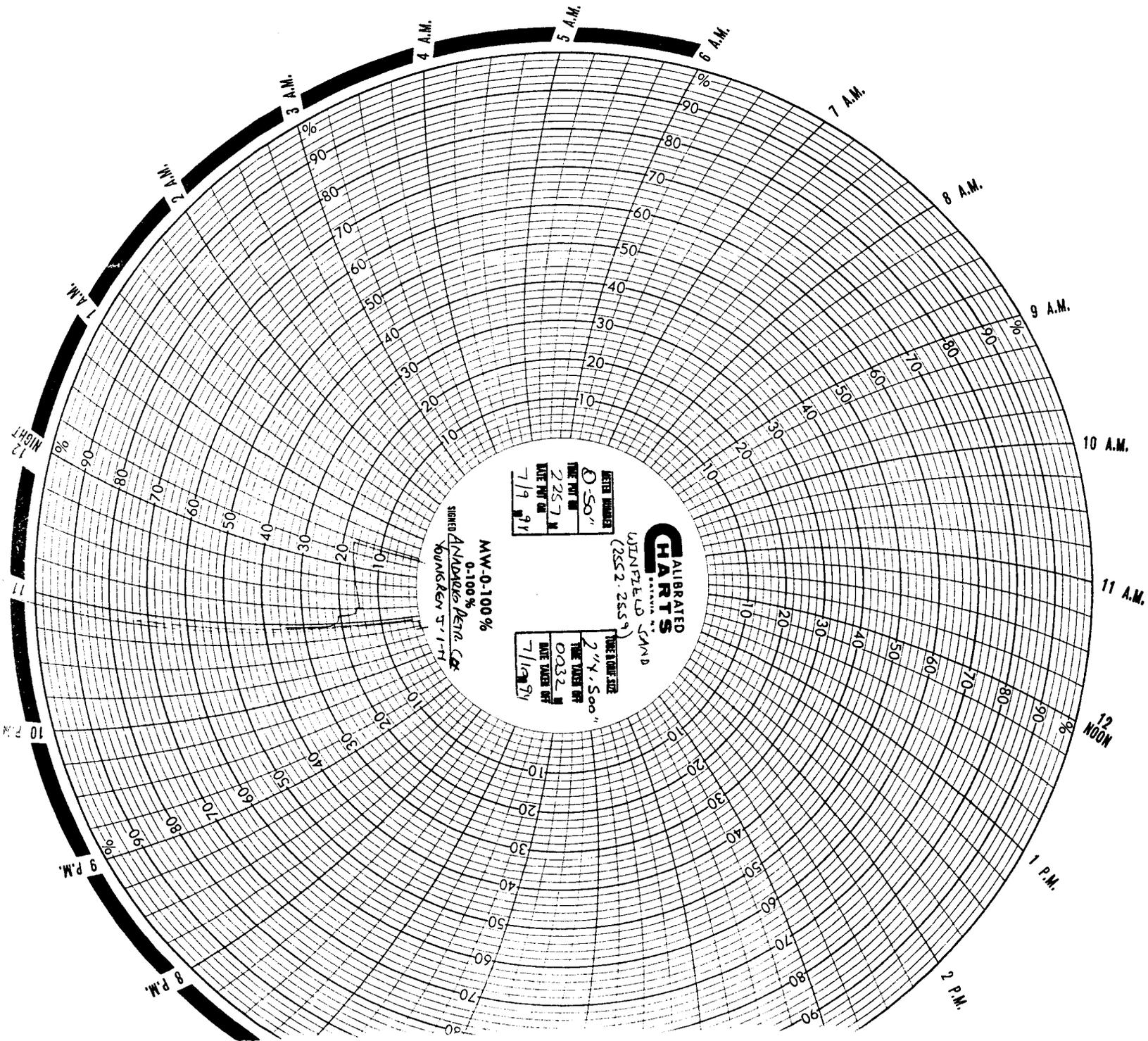
Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

Lab Number:	940341	Analyzed:	07/11/94
Sample From:	Youngren 'J' 1-H DST 4	Pressure:	
Producer:	Anadarko	Temperature:	
Date:		Location:	4-33-38W
Time:		County:	Stevens
Sampler:		State:	Kansas
Source:		Formation:	Winfield
			Sand

	Mole %	GPM
Helium	He: 0.424	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 13.812	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 73.583	0.000
Ethane	C2: 6.679	1.786
Propane	C3: 3.696	1.018
Iso Butane	iC4: 0.412	0.135
Normal Butane	nC4: 0.921	0.290
Iso Pentane	iC5: 0.139	0.051
Normal Pentane	nC5: 0.162	0.059
Hexanes Plus	C6+: 0.172	0.075

TOTAL: 100.000      3.414  
 Z Fact: 0.9976  
 SP.GR.: 0.7089  
 BTU (SAT): 1005.7 @ 14.73 psia  
 BTU (DRY): 1023.5 @ 14.73 psia  
 OCTANE RATING: 107.6

COMMENTS:



**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

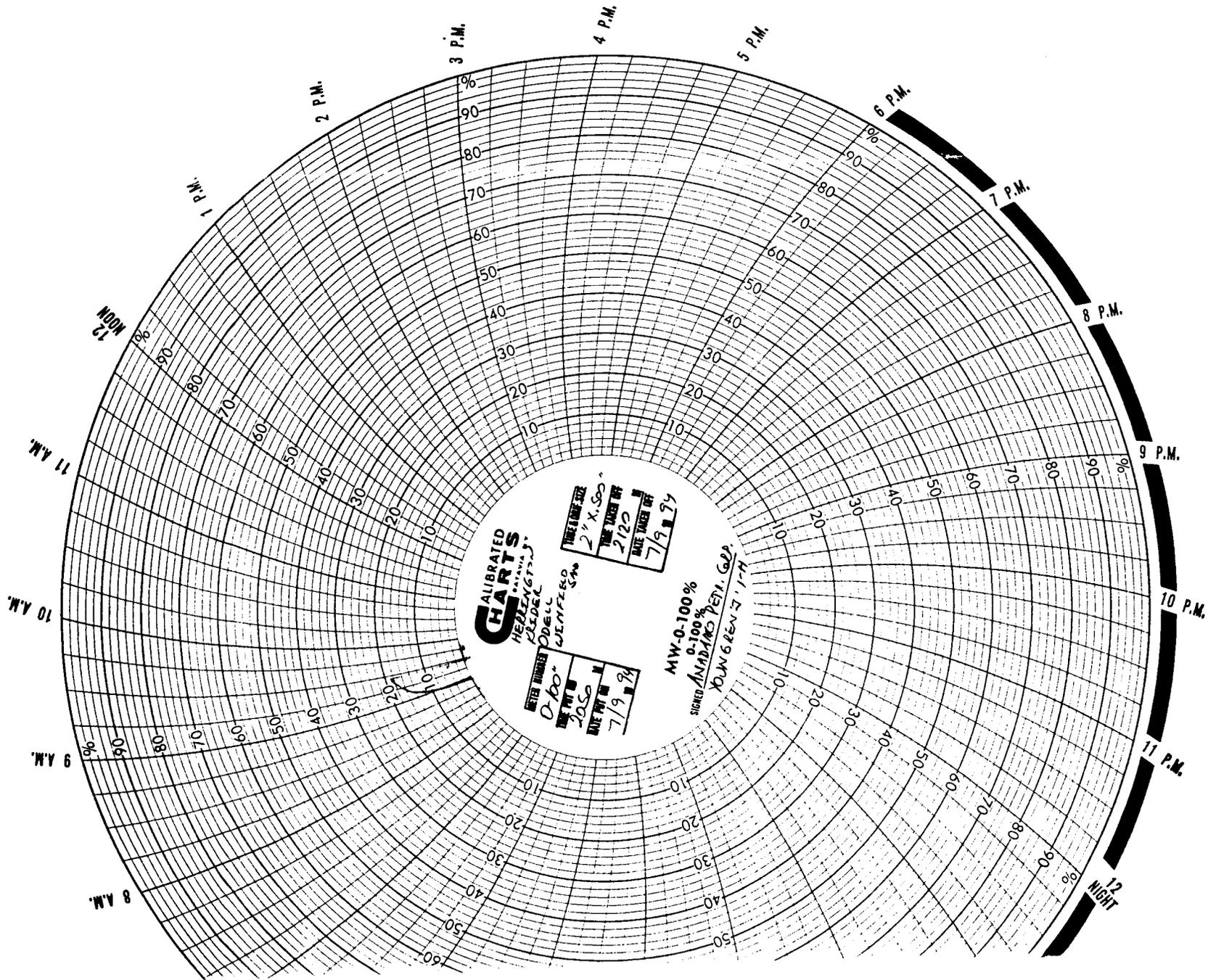
CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2552 TO 2559 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .709 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR WINFIELD SAND

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
SATURDAY 7-9-94																	7-11-94
1530																	START IN WELL WITH CORE BARREL.
1630																	CORE BARREL ON BOTTOM.
1730																	START CORING.
1745																	FINISH CORING WINFIELD SAND (2552-2559)
2000																	CORE BARREL ON SURFACE
2124																	POWERED UP GRC EMS-725 INSTRUMENTS
2133																	START IN WELL WITH INSTRUMENTS.
2254																	INSTRUMENTS ON BOTTOM
																	BOTTOM OF TOP PACKER - 2524'
																	BOTTOM OF BOTTOM PACKER - 2549'
																	BOTTOM OF UPPER GAUGE - 2553'
																	BOTTOM OF BOTTOM GAUGE - 2557'
2257																	SET PACKER
2257																	START FLOW PERIOD WITH 2" O.W.T. AND 1/2" PLATE
2302									11.5				19.68				
2307									10.5				18.77				
2312									8.5				16.56				
2317									8.0				15.82				GAS TO SURFACE
2322									7.5				15.64				
2327									7.5				15.64				
2332									7.5				15.64				
2337									7.5				15.64				

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.					ANNUAL _____
SATURDAY 7-9-94	(CONTD)																	REMARKS PERTINENT TO TEST DATA QUALITY
2342									7.5			15.64						
2347									8.0			15.82						
2352									8.0			15.82						
2357									8.0			15.82						
SUNDAY 7-10-94																		
0002									8.0			15.82						
0007									8.0			15.82						
0012									8.0			15.82						
0017									8.5			16.56						
0022									8.5			16.56						
0027									8.5			16.56						
0032									8.5			16.56						CLOSE DOWNHOLE SHUT-OFF.
2254																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
MONDAY 7-11-94																		
0043																		INSTRUMENTS ON SURFACE.
0047																		POWERED DOWN GRC EMS-725 INSTRUMENTS.
																		UPPER GAUGE (76095) - YOUWS1U
																		LOWER GAUGE (72289) - YOUWS1L

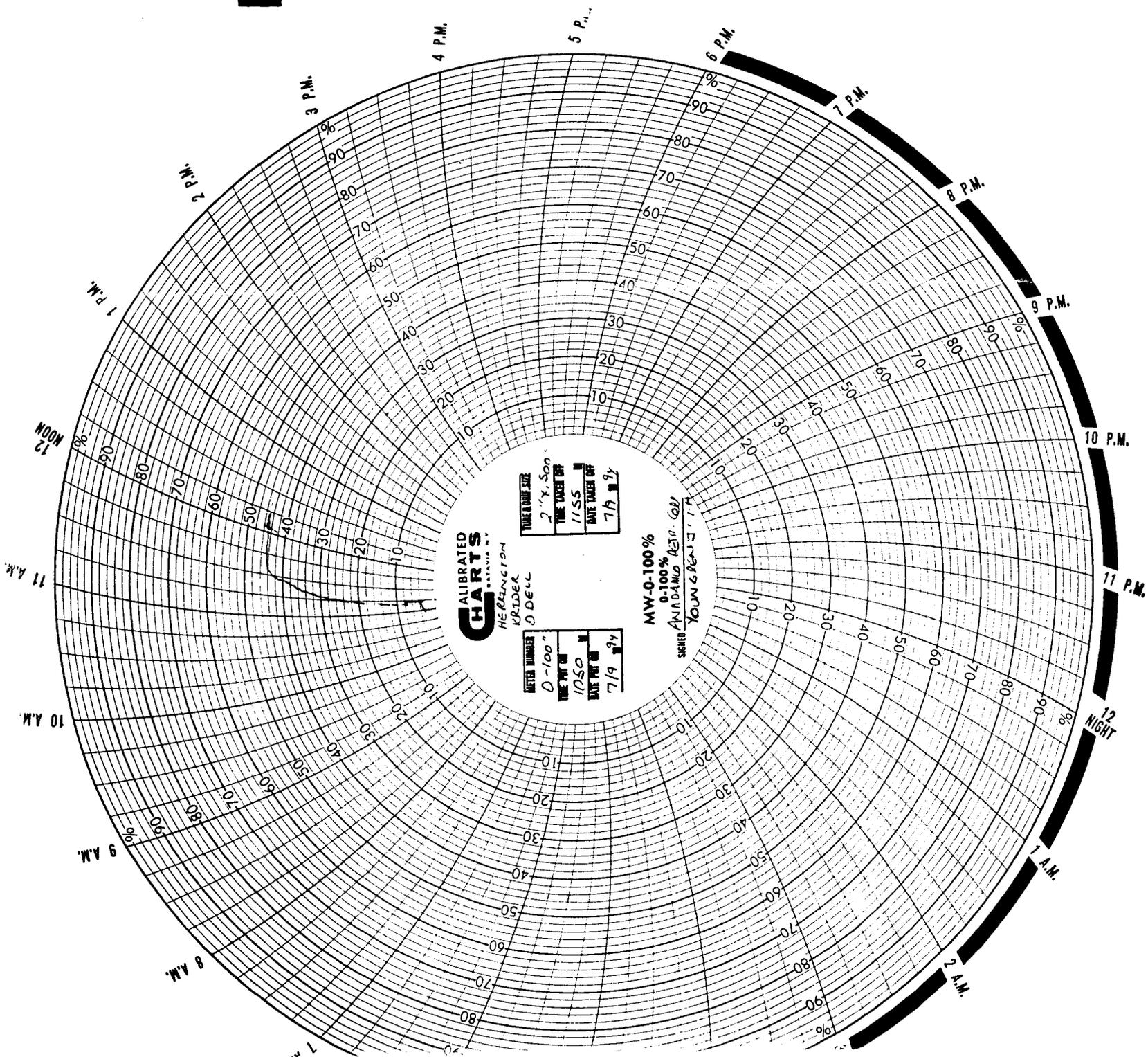


**ALIBRATED**  
**CHARTS**  
 HERLENGTON'S  
 KREDEL

ENTER NUMBER 0-60  
 TIME TAKEN OFF 2:50  
 DATE TAKEN OFF 7/9 84

ENTER NAME SIZE 2' X 500  
 TIME TAKEN OFF 2:20  
 DATE TAKEN OFF 7/9 84

MW-0-100%  
 0-100%  
 SIGHTER ANADAMS PERRY, GAPP.  
 YOUNGREN 7-1-74

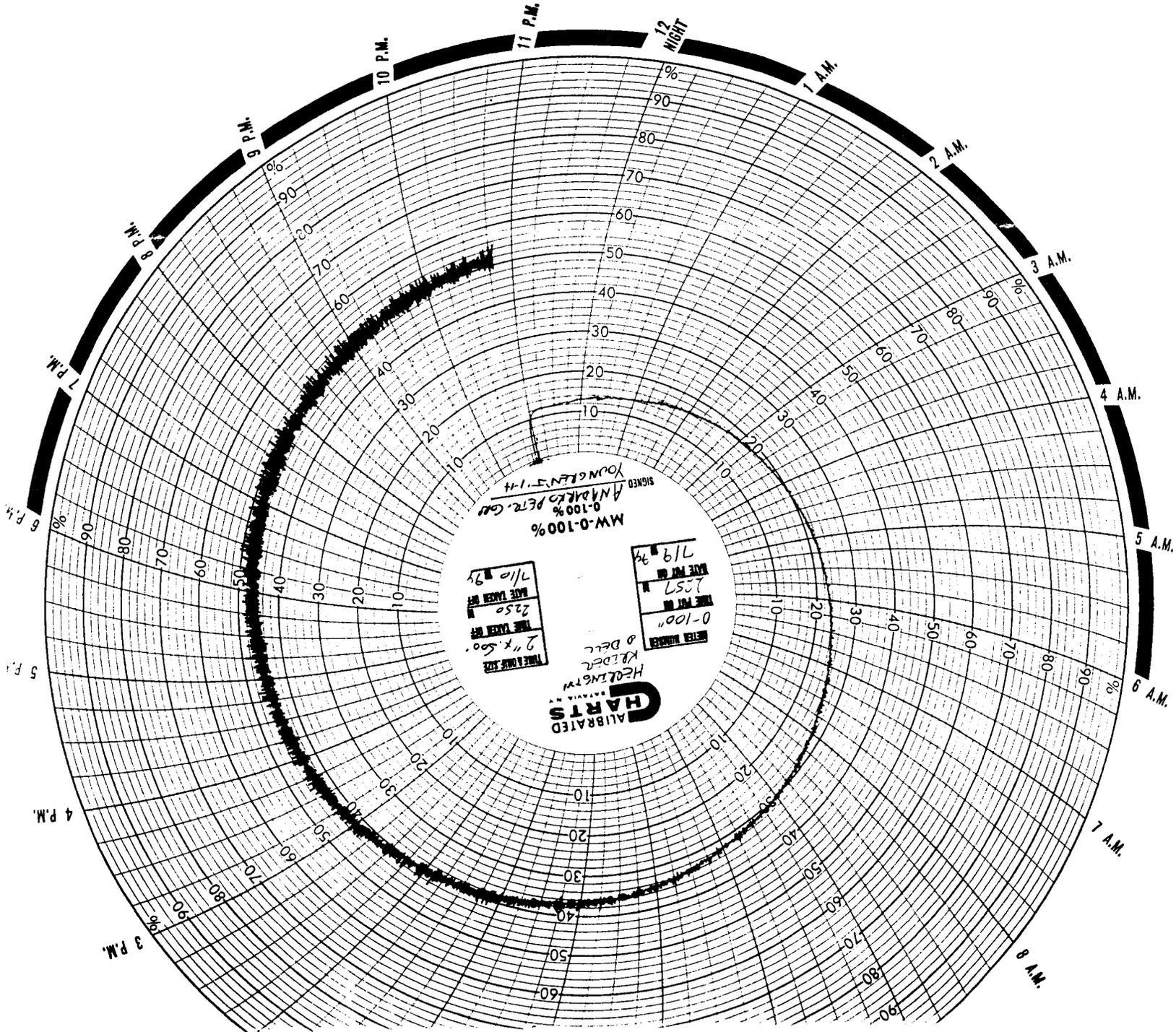


**CALIBRATED CHARTS**  
 THE BRANTON  
 KRIDER  
 O DEEL

TRUCK & EQUIP. SIZE  
 2 1/2 x 500  
 TRUCK TANKER EFF  
 1/55  
 DATE TAKEN EFF  
 7/9 97

METER NUMBER  
 0-100  
 TRUCK MET ON  
 1050  
 DATE MET ON  
 7/9 97

MW-0-100%  
 0-100%  
 AIR DRYING 230° C/450° F  
 SIGNED  
 YOUNG GREENE



SIGNED  
 ANNA M. KELLY, M.D.  
 0-100% PER. CM.  
 MW-0-100%  
 YOUNG LENTZ, M.D.

TIME & DATE TAKEN  
 7:10 7/9  
 2:50  
 2" X 5.0"

EXTRA NUMBER  
 0-100"  
 TIME TAKEN  
 2:57  
 DATE TAKEN  
 7/9 34

**GAUBRATED**  
**HARTS**  
 HEOLING™  
 KIDDELL  
 & DEWELL

**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: ANNUAL	INITIAL _____ SPECIAL _____	ENDING DATE <u>7-10-94</u>	
		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.
SATURDAY 7-9-94																
1050																GAS COLUMES 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 1/2" PLATE DIRECTLY OFF CASING. COMINGLED GAS FRO, HERRINGTON (2470-2497), KRIDER (2502-2535), AND ODELL (2535-2552).
1055									8.0		15.70					
1100									22.0		26.83					
1115									38.0		35.24					
1120									40.0		36.15					
1125									41.0		36.61					
1130									43.0		37.52					
1135									44.0		37.98					
1140									44.0		37.98					
1145									45.0		38.34					
1150									45.0		38.34					
1155									45.0		38.34					END FLOW TEST. PREPARE TO RUN MAGNET.
2050																RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED) INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), AND WINFIELD SAND (2552-2559).
2055									10.0		18.17					
2100									13.0		20.81					
2105									14.0		21.63					
2110									16.0		22.91					
2115									17.0		23.55					

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

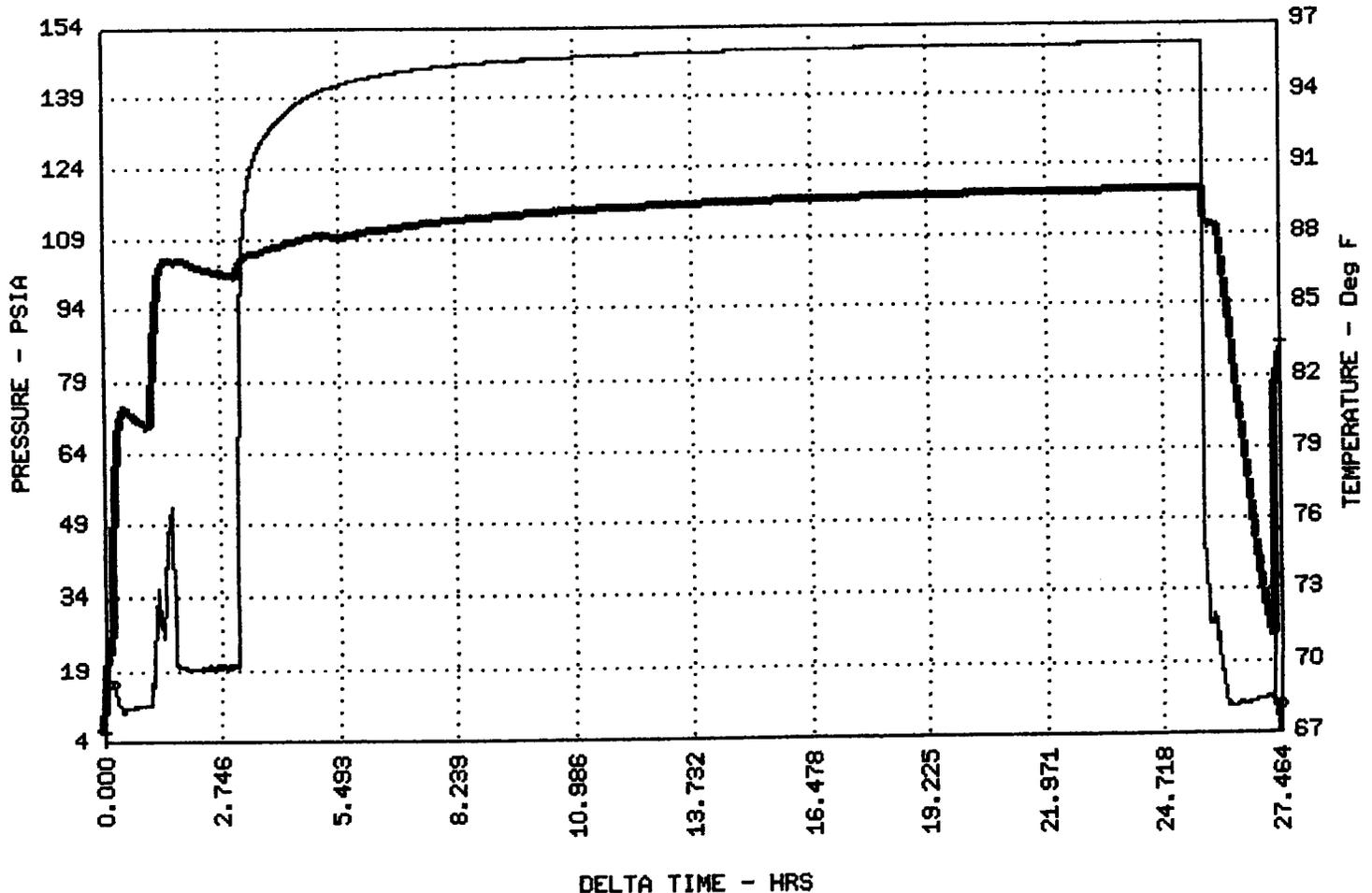
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE	
SATURDAY 7-9-94	(CONTD)																	7-10-94
2120									18.0			24.28						END COMINGLED FLOW TEST. PREPARE TO RUN IN WELL FOR DST #4
2257																		SET PACKER. INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED HERRINGTON (2420-2497), KRIDER (2502-2535), AND ODELL (2535-2552).
2302									7.0			15.24						
2307									12.0			19.99						
2312									12.0			19.99						
2317									12.0			19.99						
2322									12.0			19.99						
2327									12.0			19.99						
2332									12.0			19.99						
2337									12.0			19.99						
2342									12.0			19.99						
2347									12.0			19.99						
2352									12.0			19.99						
2357									12.0			19.99						
SUNDAY 7-10-94																		
0002									12.0			19.99						
0007									12.0			19.99						
0012									13.0			20.81						
0017									13.0			20.81						
0022									13.0			20.81						
0027									13.0			20.81						
0032									14.0			21.63						



# 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: WINFIELD CARBONATE (2559-2591)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2584'.

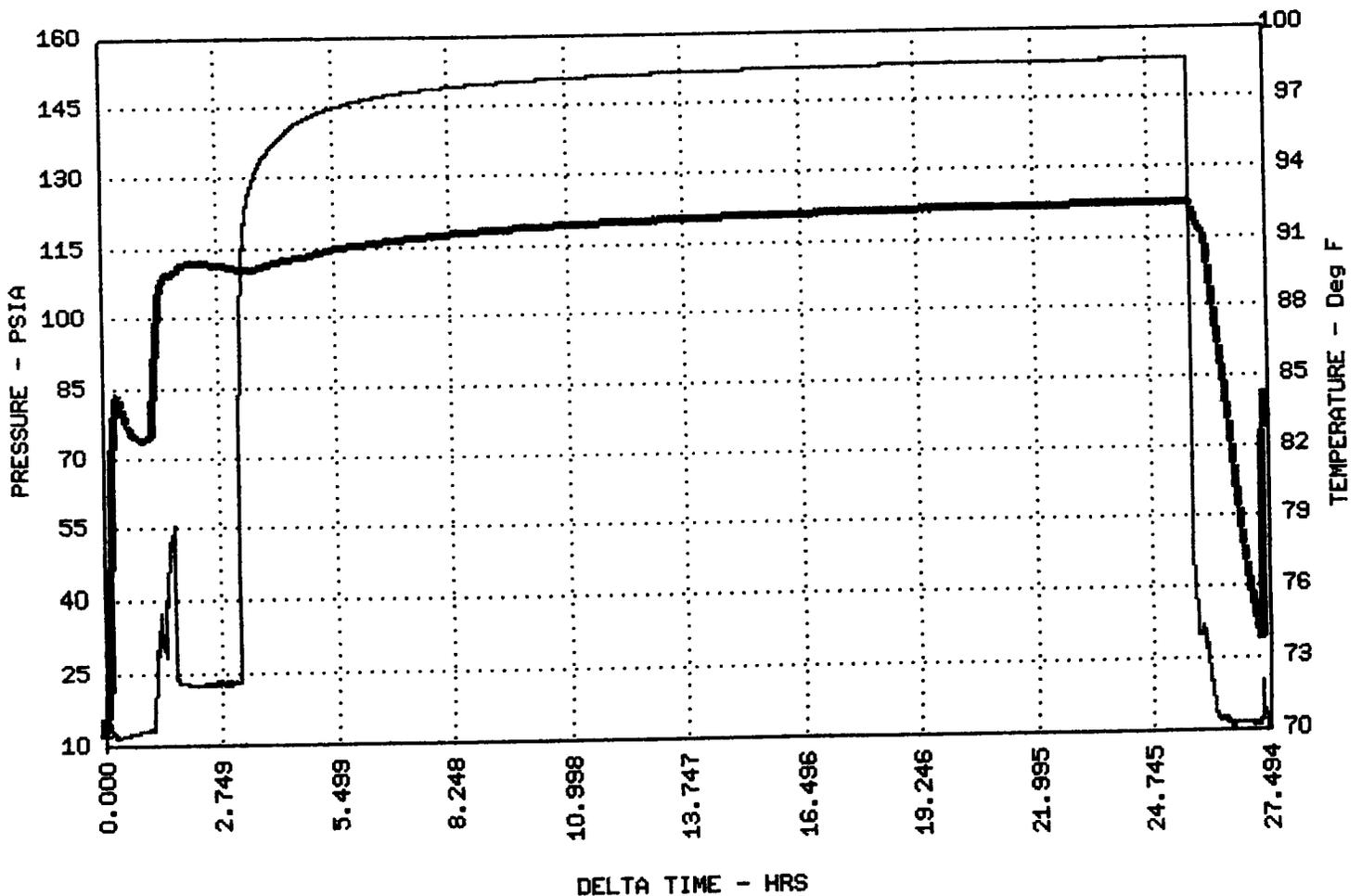
Starting date: 07/11/94  
time: 11:42:00



# 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: WINFIELD CARBONATE (2559-2591)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2588'.

Starting date: 07/11/94  
time: 11:42:00



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:	940342	Analyzed:	07/11/94
Sample From:	Youngren 'J' 1-H DST 5	Pressure:	
Producer:	Anadarko	Temperature:	
Date:		Location:	4-33-38W
Time:		County:	Stevens
Sampler:		State:	Kansas
Source:		Formation:	Winfield
			Carbonate

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	13.607
Carbon Dioxide	CO2:	0.077
Methane	C1:	73.313
Ethane	C2:	6.778
Propane	C3:	3.917
Iso Butane	iC4:	0.451
Normal Butane	nC4:	1.032
Iso Pentane	iC5:	0.137
Normal Pentane	nC5:	0.232
Hexanes Plus	C6+:	0.199
TOTAL:		100.000
Z Fact:		0.9974
SP.GR.:		0.7244
BTU (SAT):		1032.3 @ 14.73 psia
BTU (DRY):		1050.5 @ 14.73 psia
OCTANE RATING:		107.8

COMMENTS: Sample entered under vacuum  
 Insufficient pressure for Helium analysis



**Precision Well Testing**

P.O. BOX 1843  
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PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

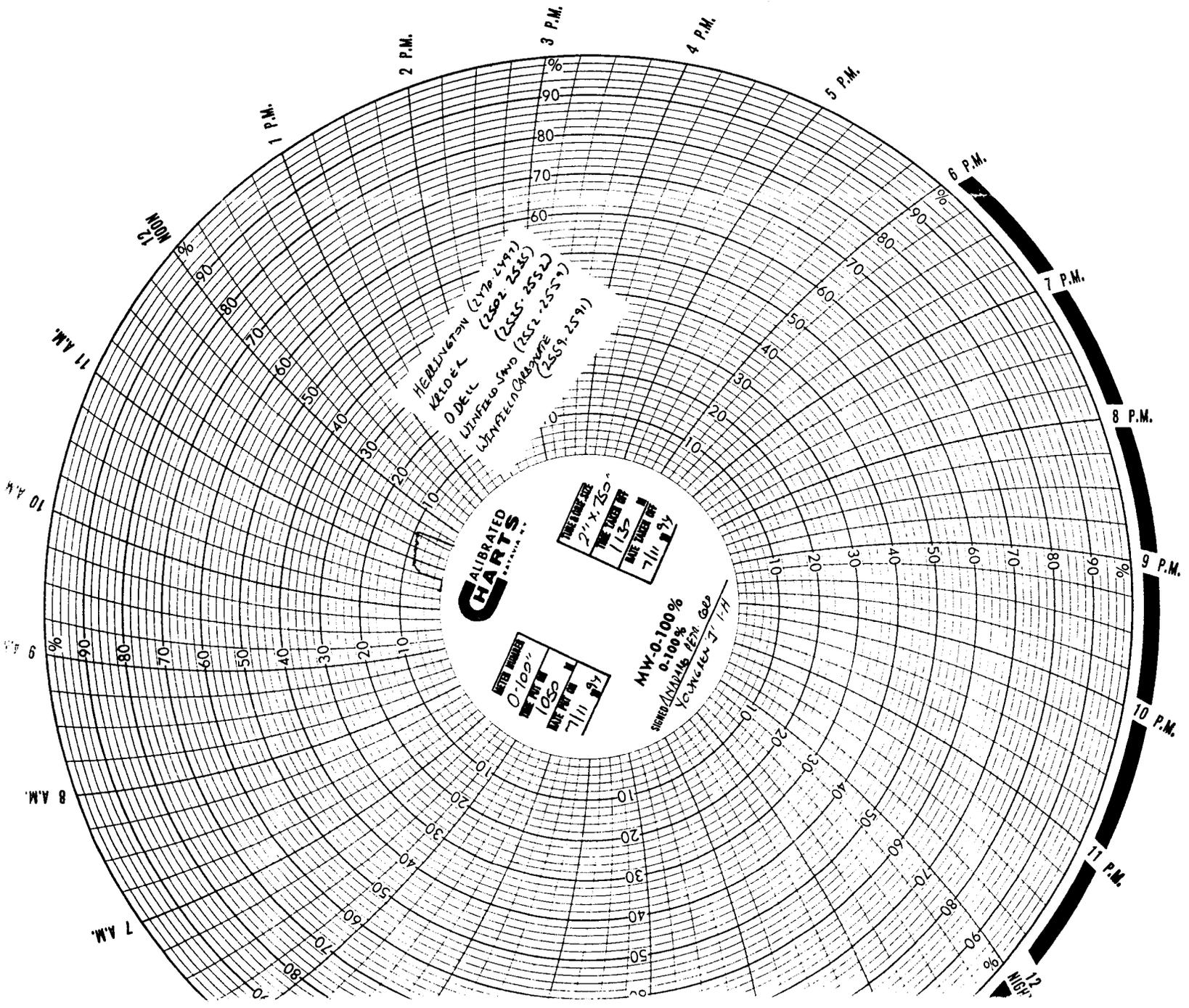
CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .724 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR WINFIELD  
 CARBONATE

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
MONDAY 7-11-94																	7-12-94
0400																	START IN WELL WITH CORE BARREL.
0500																	CORE BARREL ON BOTTOM.
0620																	START CORING.
0745																	FINISH CORING WINFIELD CARBONATE (2559-2591).
1000																	CORE BARREL ON SURFACE.
1142																	POWERED UP GRC EMS 725 INSTRUMENTS.
1147																	START IN WELL WITH INSTRUMENTS.
1320																	INSTRUMENTS ON BOTTOM.
																	BOTTOM OF TOP PACKER - 2559'
																	BOTTOM OF BOTTOM PACKER - 2565'
																	BOTTOM OF UPPER GAUGE - 2584'
																	BOTTOM OF LOWER GAUGE - 2588'
1323																	SET PACKER.
1323																	START FLOW PERIOD WITH 2" O.W.T. AND 1/2" PLATE.
1328									9.5				17.66				GAS VOLUME CORRECTED TO A .7244 GRAVITY.
1333									9.0				17.11				
1338									9.0				17.11				
1343									7.0				15.20				GAS TO SURFACE.
1348									6.5				14.56				
1353									6.0				14.02				
1358									6.0				14.02				
1403									6.0				14.02				

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 <u>7-12-94</u>
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.	WATER BBLs.				
MONDAY 7-11-94	(CONTD)																
1408										6.0		14.02					
1413										6.0		14.02					
1418										6.0		14.02					
1423										6.0		14.02					
1428										6.0		14.02					
1433										5.5		13.38					
1438										5.5		13.38					
1443										5.5		13.38					
1448										5.5		13.38					CLOSE DOWNHOLE SHUT-OFF.
1453																	
TUESDAY 7-12-94																	
1323																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
1507																	INSTRUMENTS ON SURFACE.
1511																	POWERED DOWN GRC EMS 725 INSTRUMENTS.
																	UPPER GAUGE (76095) - YOUWC1U
																	LOWER GAUGE (72289) - YOUWC1L





**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
MONDAY 7-11-94																	7-12-94
0220																	
0225																	
0230																	
0235																	
0240																	
0245																	
0250																	
0255																	
0300																	
0305																	
0310																	
0315																	
0320																	
1050																	
1055																	
1100																	
1105																	
1110																	

REMARKS PERTINENT TO TEST DATA QUALITY

GAS VOLUMES CORRECTED TO A .720 GRAVITY

RUN 1 STAND DRILLPIPE IN WELL.  
 INSTALL 2" VALVE IN DRILLPIPE (CLOSED)  
 INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING.  
 (COMINGLED GAS FROM HERINGTON (2470-2497), KRIDER (2535-2552), ODELL (2535-2552), AND WINFIELD SAND (2552-2559).

CHANGE TO 3/4" PLATE.

END FLOW TEST. PREPARE TO RUN CORE BARREL.

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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), AND WINFIELD CARBONATE (2559-2591).

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

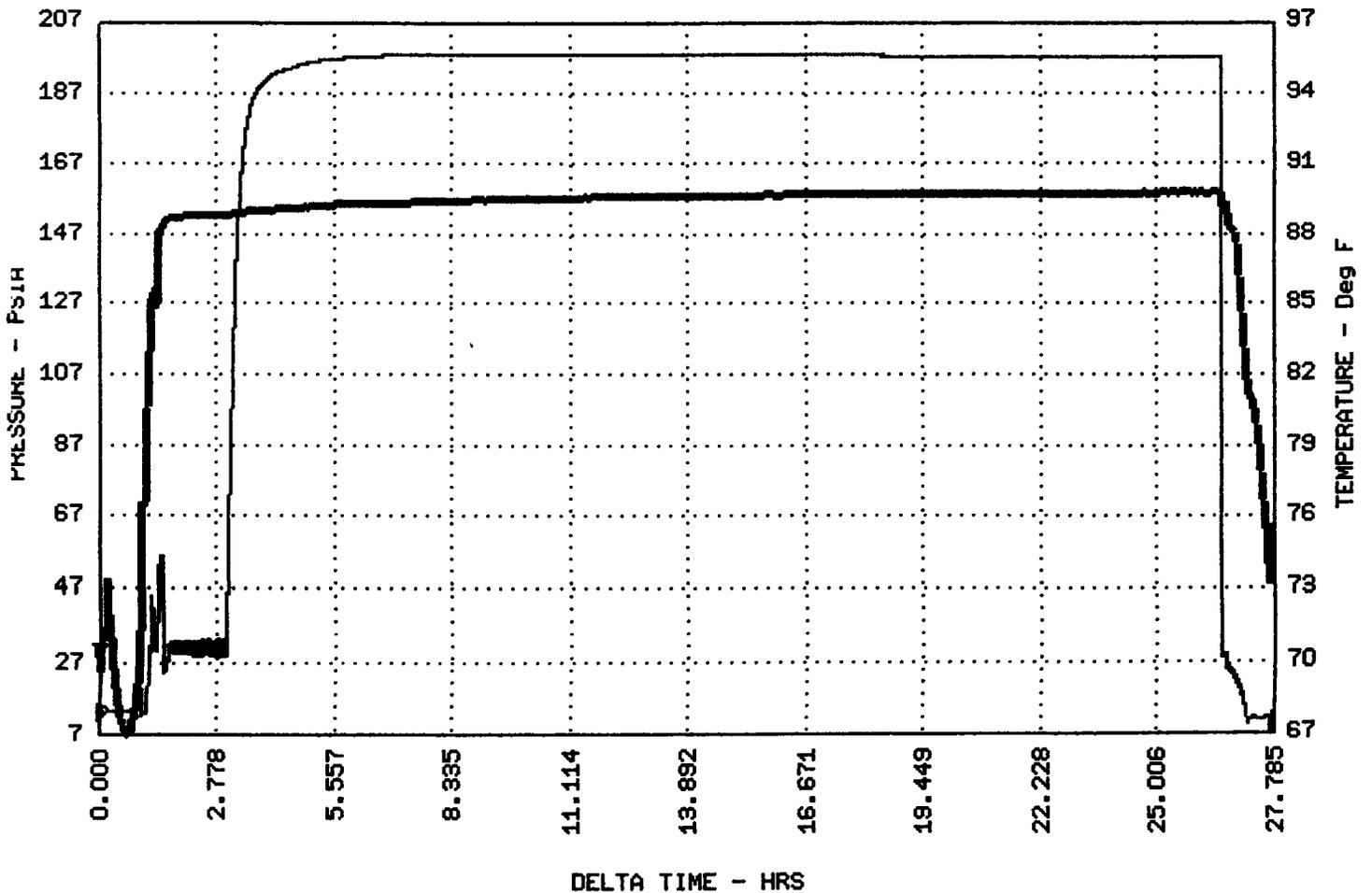
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
MONDAY 7-11-94	(CONT'D)																7-12-94
1115									8.0		36.51						
1120									8.0		36.51						
1125									9.0		38.80						
1130									9.0		38.80			END FLOW TEST. PREPARE TO RUN DST #5.			
1323														SET PACKER. INSTALLED 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF PACKER. (COMINGLED HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), AND WINFIELD SAND (2552-2559).			
1328									1.0		12.96						
1333									1.0		12.96						
1338									1.0		12.96			CHANGE TO 1/2" PLATE.			
1343									4.0		11.41						
1348									4.0		11.41						
1353									4.0		11.41						
1358									4.0		11.41						
1403									4.0		11.41						
1408									4.0		11.41						
1413									4.0		11.41						
1428									4.0		11.41						
1423									4.0		11.41						
1428									4.0		11.41						
1433									4.0		11.41						
1438									4.0		11.41						
1443									4.0		11.41						
1448									4.0		11.41						
1453									4.0		11.41						



# 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: GAGE (2591-2608) RETEST  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2601'.

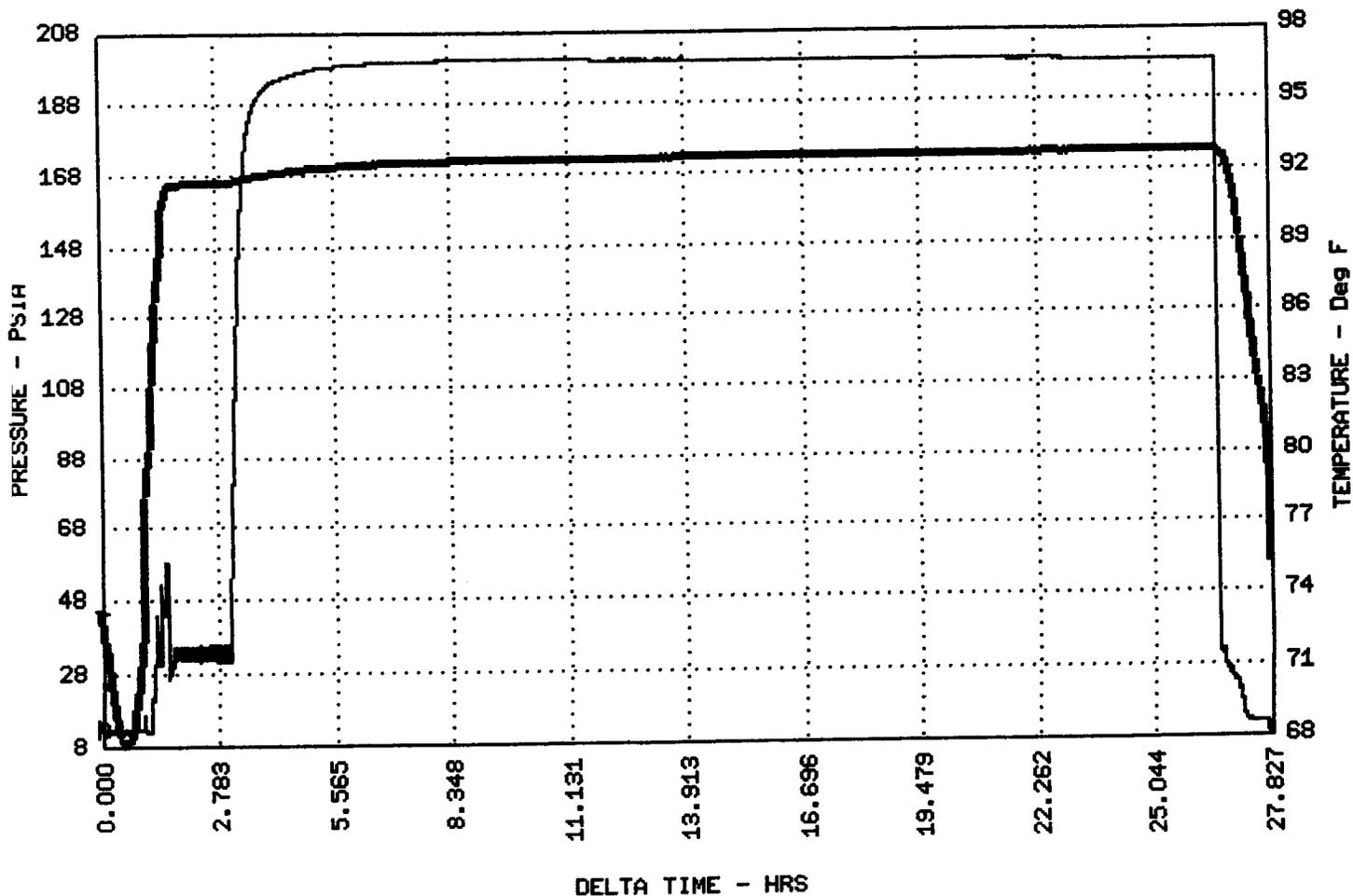
Starting date: 07/14/94  
time: 05:26:00



# 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: GAGE (2591-2608) RETEST  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2605'.

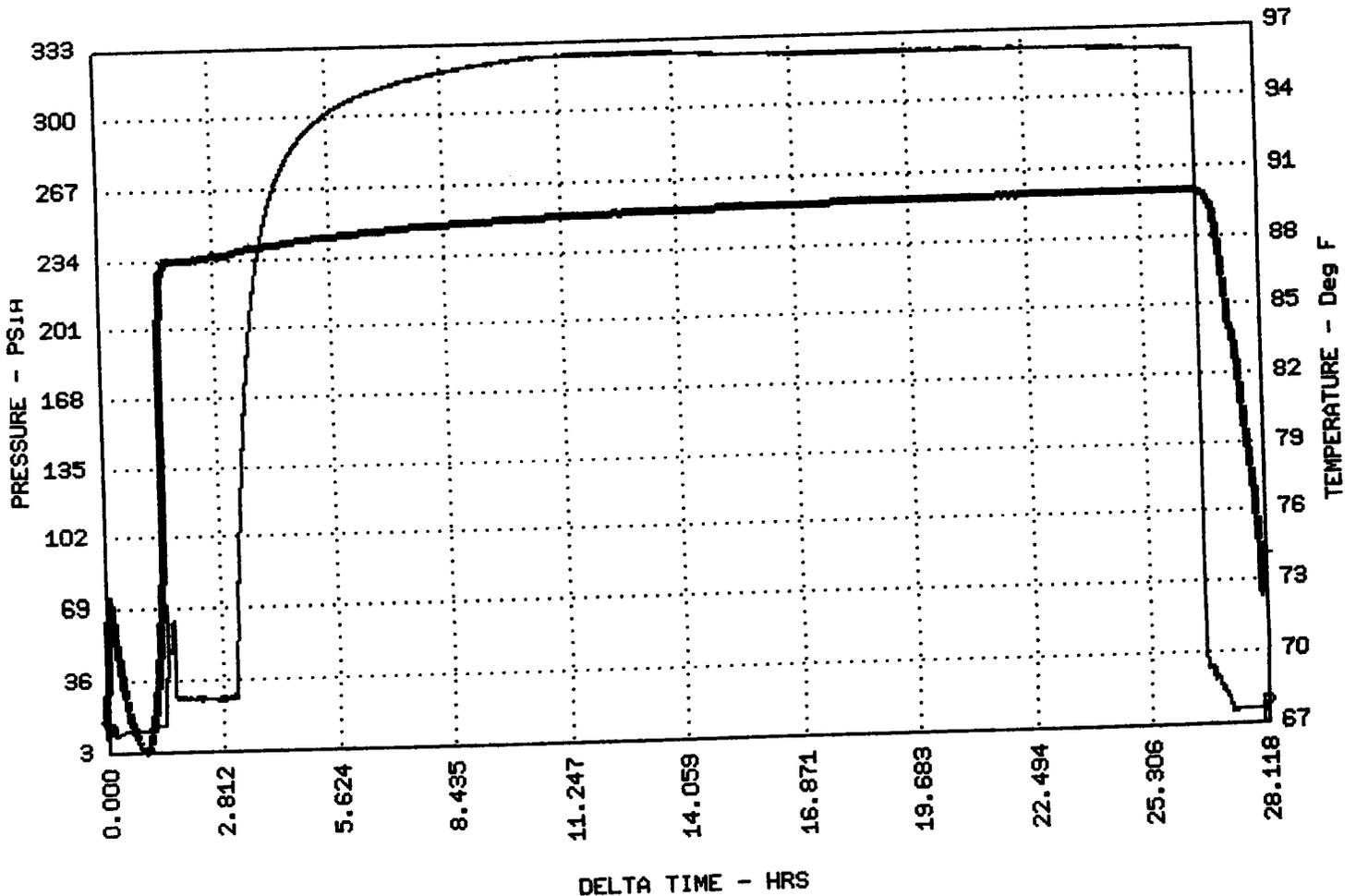
Starting date: 07/14/94  
time: 05:26:00



# 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: GAGE (2591-2608)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2602'.

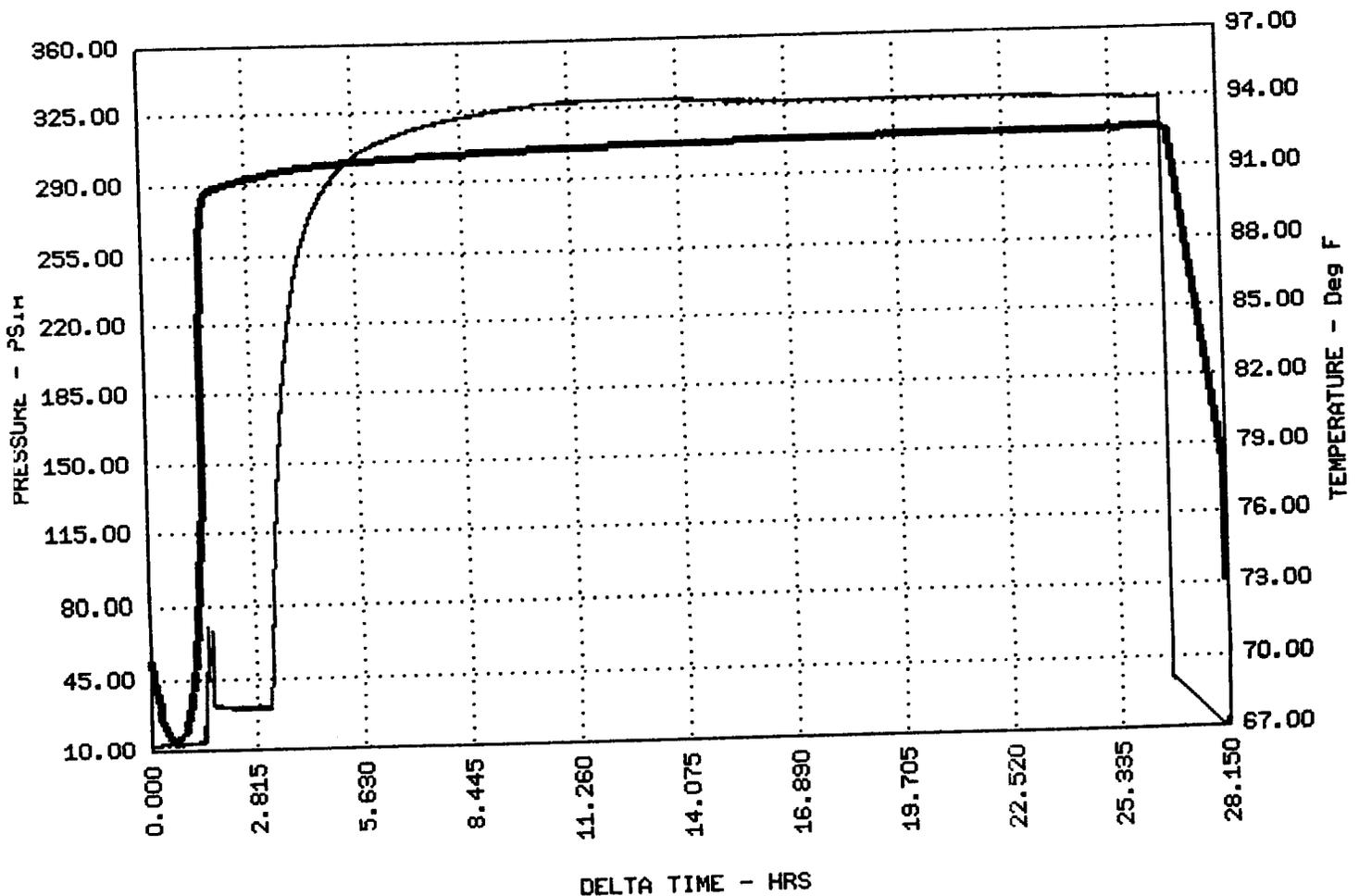
Starting date: 07/12/94  
time: 23:28:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: GAGE (2591-2608)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2606'.

Starting date: 07/12/94  
time: 23:28:03



NATURAL GAS ANALYSIS REPORT

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

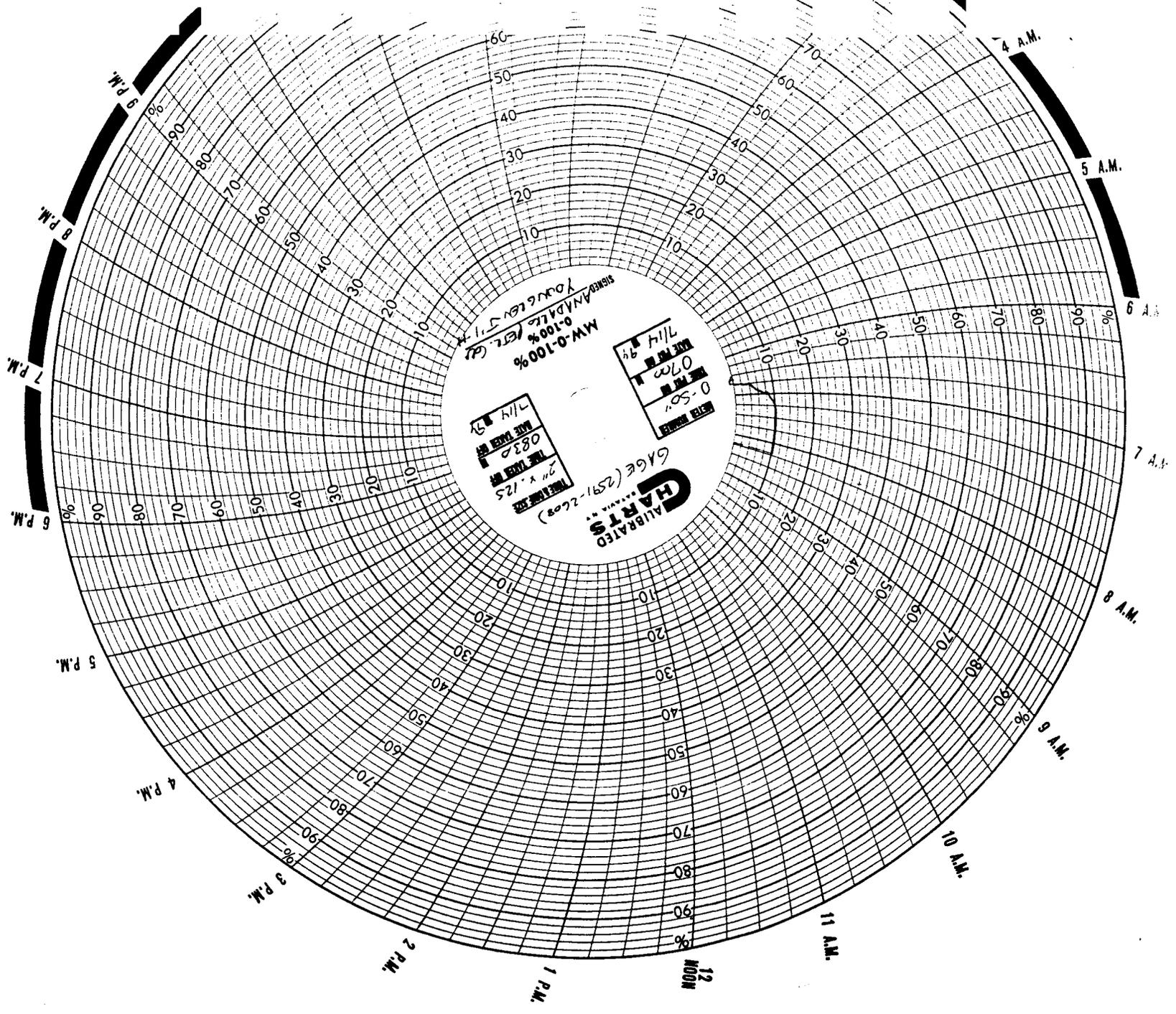
Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

Lab Number: 940346  
 Sample From: Youngren 'J' 1-H DST 7  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/16/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Gage

	Mole %	GPM
Helium	He: 0.275	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 14.100	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 72.909	0.000
Ethane	C2: 6.823	1.825
Propane	C3: 3.853	1.062
Iso Butane	iC4: 0.428	0.140
Normal Butane	nC4: 0.966	0.305
Iso Pentane	iC5: 0.126	0.046
Normal Pentane	nC5: 0.202	0.073
Hexanes Plus	C6+: 0.318	0.139
TOTAL:	100.000	3.589
Z Fact:	0.9975	
SP.GR.:	0.7183	
BTU (SAT):	1015.9	@ 14.73 psia
BTU (DRY):	1033.9	@ 14.73 psia
OCTANE RATING:	107.1	

COMMENTS:



**CALIBRATED CHARTS**  
GAGE (2591-2608)  
7" x 12.5"  
MW-0-100%  
0-100% PERCENT  
SIGNED AVAILABLE PERCENT  
7/14 9 30  
0.50  
0.83  
7/14 9 30

12 NOON  
11 A.M.  
10 A.M.  
9 A.M.  
8 A.M.  
7 A.M.  
6 A.M.  
5 A.M.  
4 A.M.  
3 P.M.  
2 P.M.  
1 P.M.  
12 P.M.  
11 P.M.  
10 P.M.  
9 P.M.  
8 P.M.  
7 P.M.  
6 P.M.  
5 P.M.  
4 P.M.  
3 P.M.  
2 P.M.  
1 P.M.  
12 NOON

**Precision Well Testing**

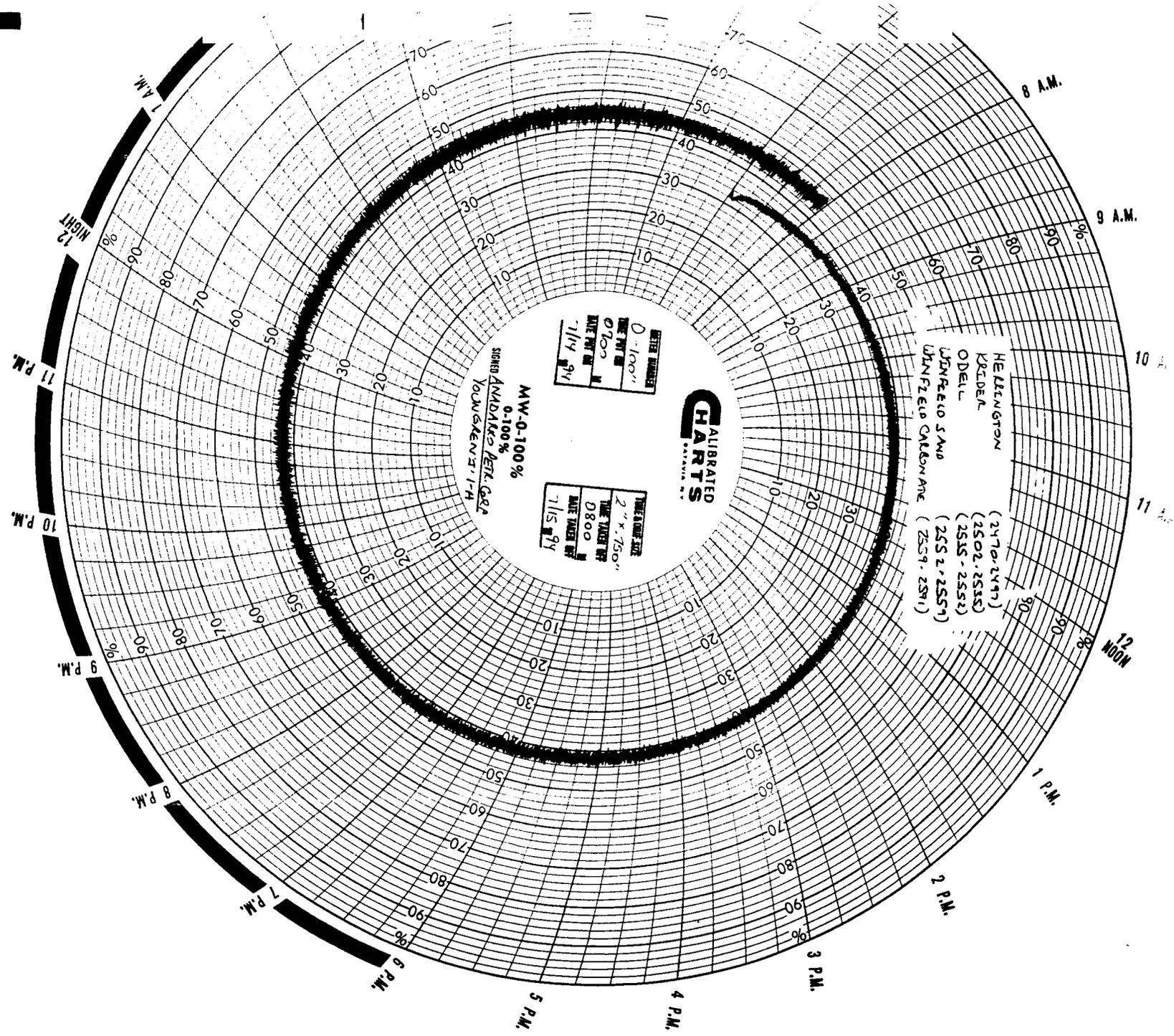
P.O. BOX 1843  
 LIBERAL, KANSAS 67905 - 1843  
 PHONE: 316-624-4505  
 MOBILE: 316-624-6258 UNIT 9390

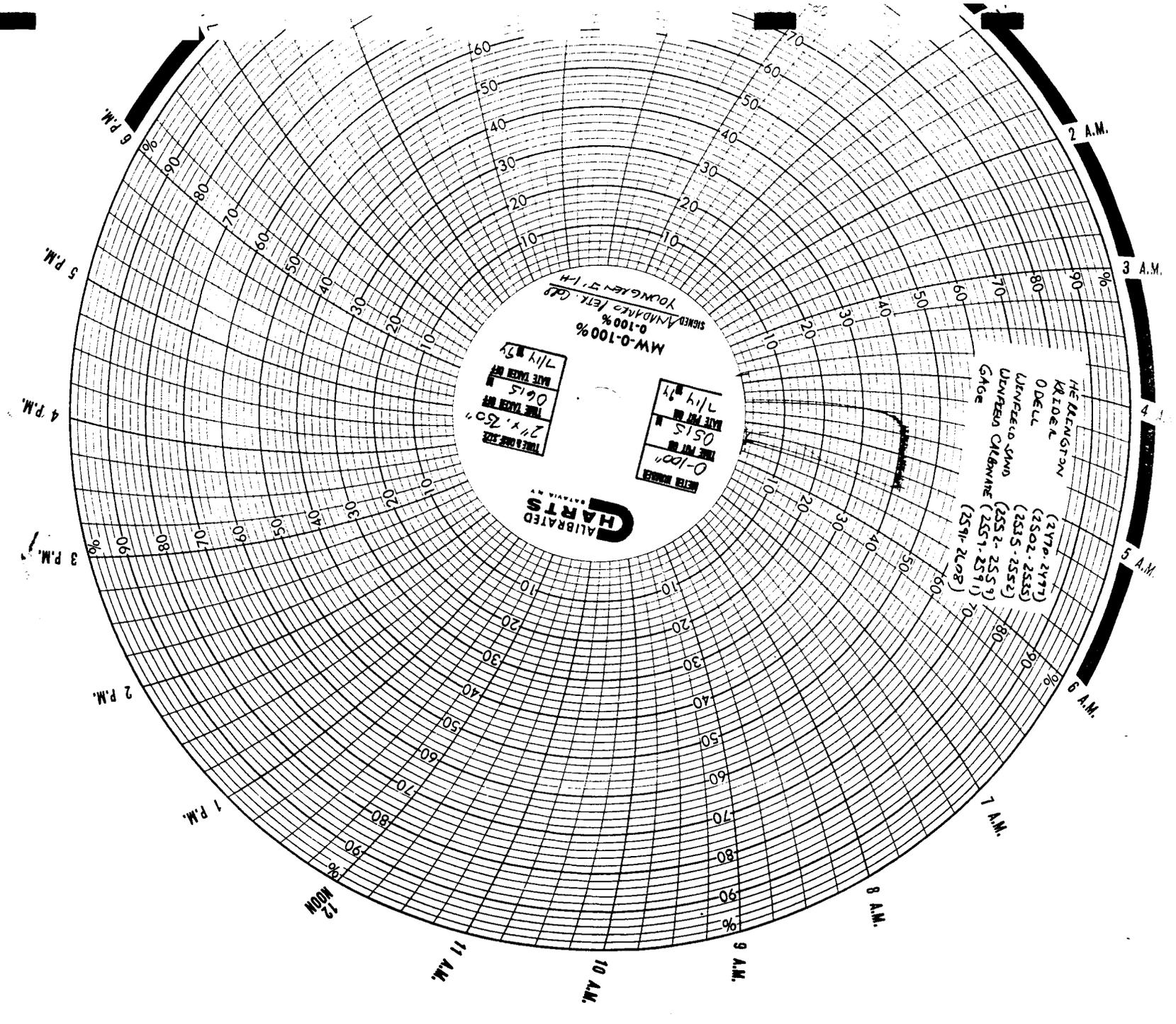
PRODUCER ANADARKO PETROLEUM CORP  
 WELL NAME YOUNGREN 'J' 1-H  
 LOCATION 1390FSL&1390FWL 4-33S-38W  
 COUNTY STEVENS STATE KS

CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS. 2591 TO 2608 , \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7183 API \_\_\_\_\_ ● \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_ GAGE \_\_\_\_\_

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA					MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____ ANNUAL _____	SPECIAL _____ RETEST _____	ENDING DATE _____ 7-15-94	
		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 7-14-94																	
0526																	POWERED UP GRC EMS-725 INSTRUMENTS.
0535																	START IN WELL WITH INSTRUMENTS.
0657																	INSTRUMENTS ON BOTTOM. BOTTOM OF TOP PACKER - 2589' BOTTOM OF BOTTOM PACKER - 2597' BOTTOM OF UPPER GAUGE - 2601' BOTTOM OF LOWER GAUGE - 2605'
0700																	SET PACKER.
0700																	START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE. GAS VOLUMES CORRECTED TO A .7183 GRAVITY.
0705										2.0		.68					
0710										3.0		.84					
0715										4.0		.97					
0720										4.0		.97					
0725										4.5		1.02					
0730										5.0		1.08					
0735										5.0		1.08					
0740										5.0		1.08					
0745										5.0		1.08					
0750										5.0		1.08					
0755										5.0		1.08					
0800										5.0		1.08					
0805										5.0		1.08					







MW-0-100%  
 SIGNED AND DATED LEFT. G.P.  
 YOUNGLEN 5-1-14

0-100%  
 TIME TAKEN 7/14/31  
 DATE 7/14/31  
 TIME TAKEN 0615  
 AIR SPEED 211.50%  
 TIME & DATE 7/14/31

HEALINGTON (2570-2577)  
 KIDELL (2502-2535)  
 LIVINGS (2535-2552)  
 LIVINGS (2552-2559)  
 LIVINGS (2551-2571)  
 GAGE (2591-2608)

CALIBRATED  
 CHARTS  
 SERIAL NO. 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 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. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
THURSDAY 7-14-94																	7-15-94
0515															REMARKS PERTINENT TO TEST DATA QUALITY		
															GAS VOLUMES CORRECTED TO A .720 GRAVITY.		
															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILL PIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), AND GAGE (2591-2608).		
0520										32		73.30					
0525										36		77.78					
0530										39		80.93					
0535										41		82.98					
0540										41		82.98					
0545										41		82.98					
0550										41		82.98					
0555										41		82.98					
0600										41		82.98					
0605										41		82.98					
0610										41		82.98					
0615										41		82.98					
															END FLOW TEST. PREPARE TO RUN DST #7 (RERUN TEST ON GAGE).		
0700															SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), AND WINFIELD CARBONATE (2559-2591).		
0705										32		73.30					
0710										32		73.30					
0715										33		74.44					

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

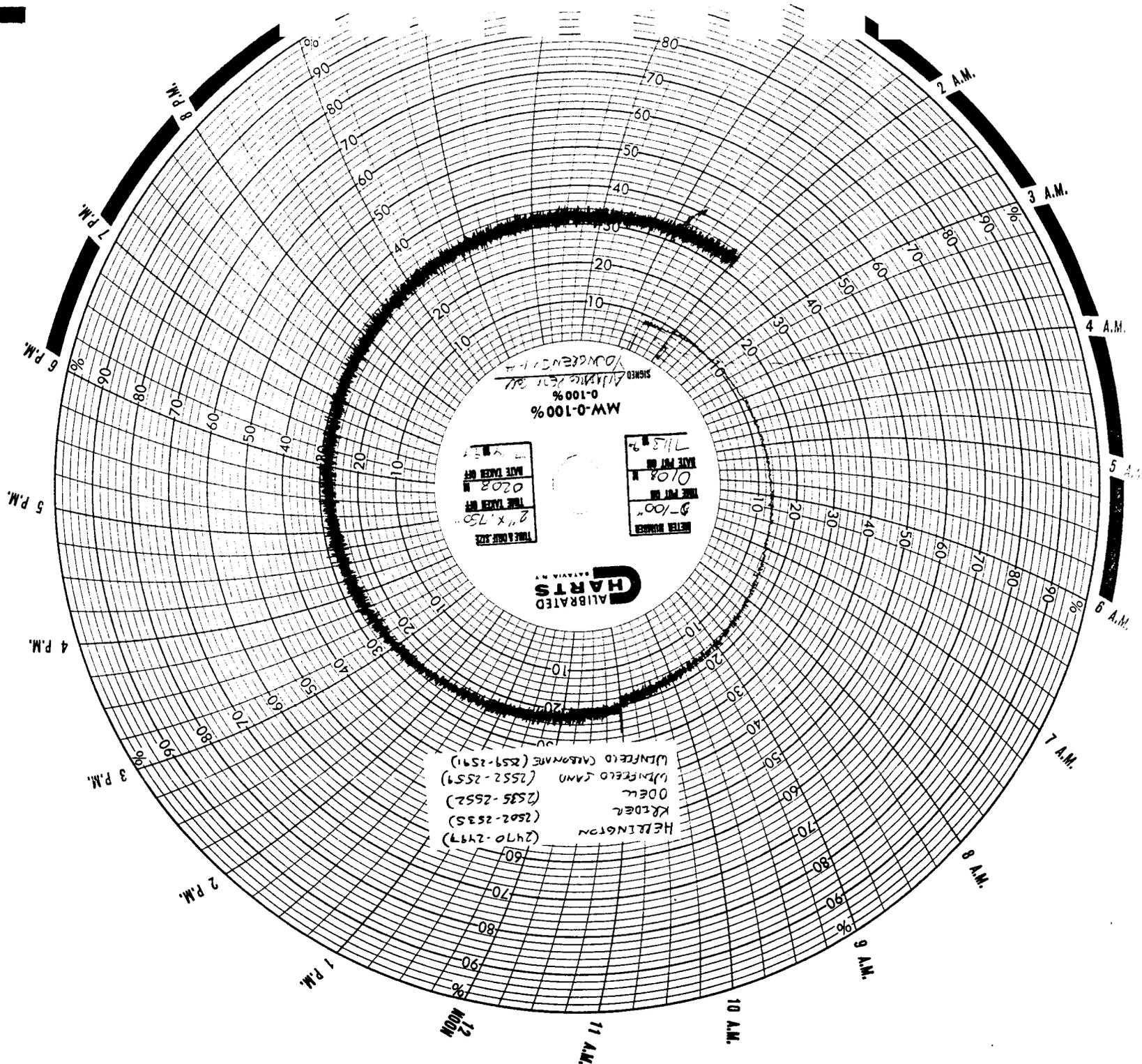
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE INITIAL _____ SPECIAL _____ ENDING _____ TEST: ANNUAL _____ RETEST _____ DATE 7-15-94					
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	REMARKS PERTINENT TO TEST DATA QUALITY				
THURSDAY 7-14-94	(CONTD)																	
0720									34		75.59							
0725									34		75.59							
0730									34		76.68							
0735									35		76.68							
0740									35		76.68							
0745									35		76.68							
0750									35		76.68							
0755									35		76.68							
0800									35		76.68							
0805									35		76.68							
0810									35		76.68							
0815									36		77.78							
0820									36		77.78							
0825									36		77.78							
0830																		
FRIDAY 7-15-94																		
0800									45		86.90							RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.



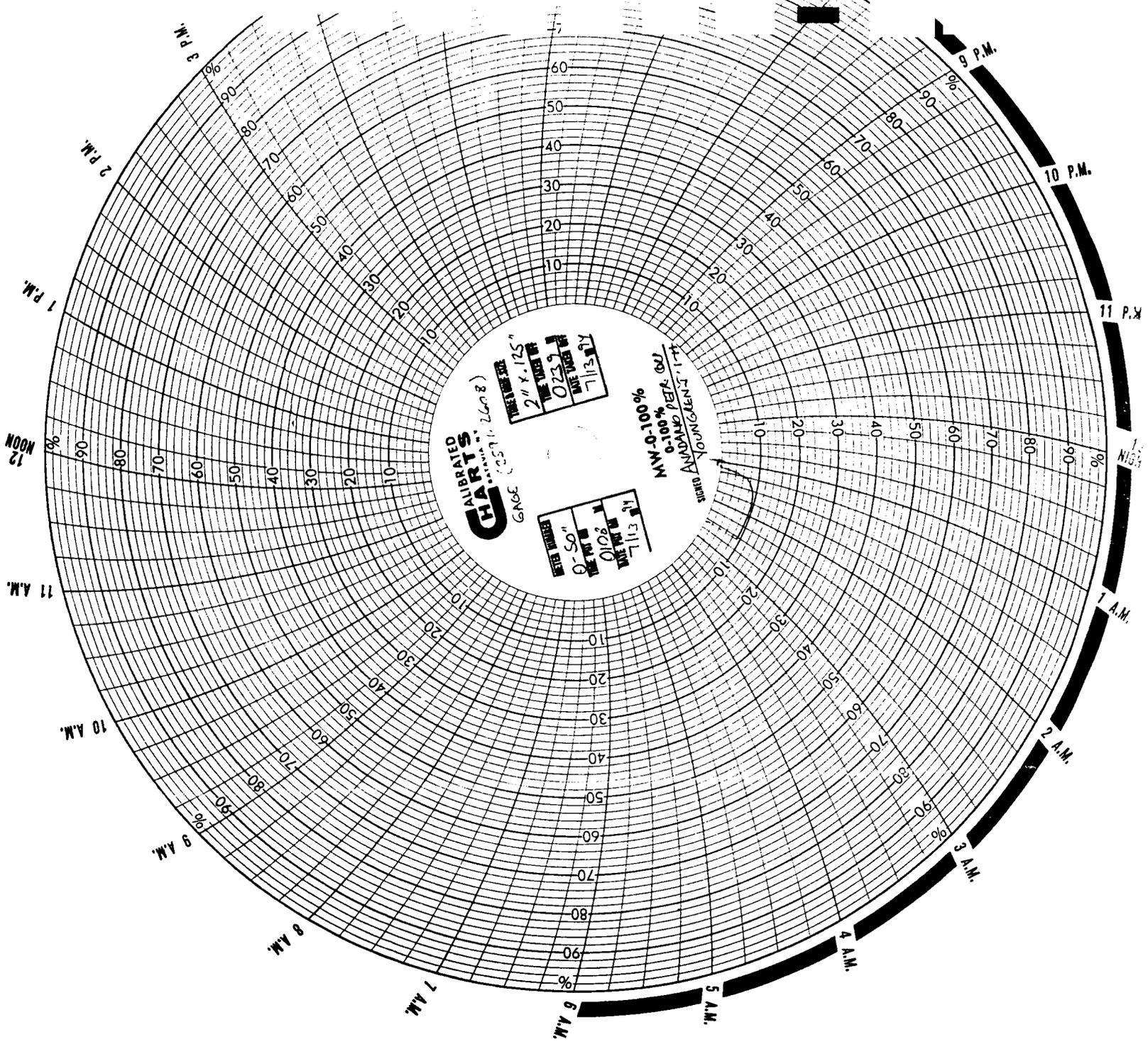
**Precision Well Testing**

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 7-14-94
		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.				
WEDNESDAY 7-13-94	(CONTD)																
0143									4.5		1.02						
0148									4.5		1.02						
0153									4.5		1.02						
0203									4.5		1.02						
0208									4.5		1.02						
0213									4.5		1.02						
0218									4.5		1.02						
0223									4.5		1.02						
0228									4.5		1.02						
0233									4.5		1.02						
0239									4.5		1.02						CLOSE DOWNHOLE SHUT-OFF.
THURSDAY 7-14-94																	
0208																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
0332																	INSTRUMENTS ON SURFACE.
0338																	POWERED DOWN GRC EMS-725 INSTRUMENTS.
																	UPPER GAUGE (76095) - YOGA1U
																	LOWER GAUGE (72289) - YOGA1L



HELENGTON  
 (2470-2477)  
 KRIDER  
 (2502-2535)  
 ODELL  
 (2535-2552)  
 WILFELD (JAN)  
 (2552-2551)  
 WILFELD CATONARE (2591-2591)

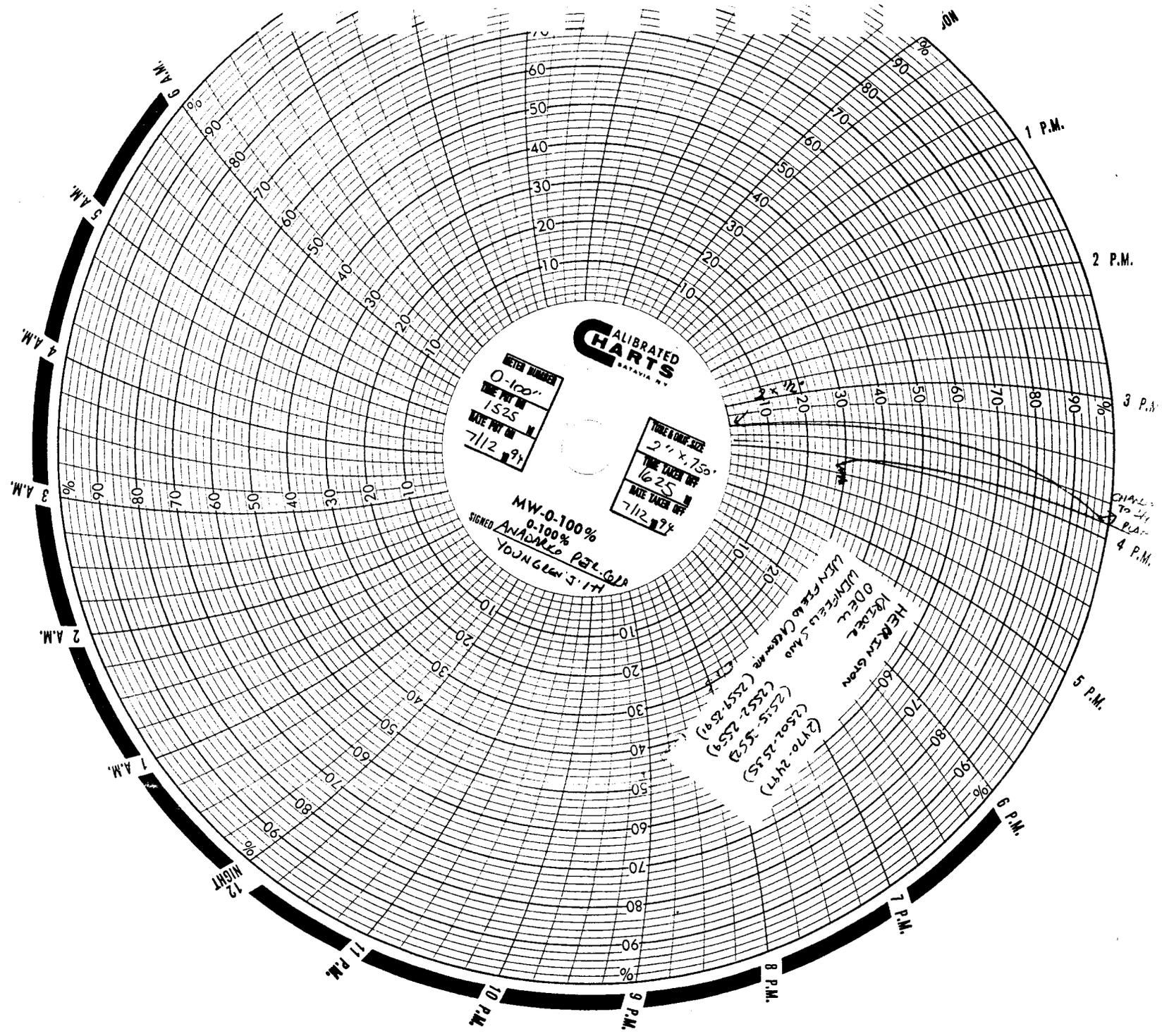


**CALIBRATED CHARTS**  
MANUFACTURED BY  
**GAGE (25711-2608)**

**WATER LEVEL**  
 2" X .125"  
 THE TIME IN  
 DATE TIME IN

**WATER TEMPERATURE**  
 0-.50"  
 THE TIME IN  
 DATE TIME IN

MW-0.001%  
 0-100% PERK. CO.  
 ANADARK PERK. CO.  
 YOUNG & RUBEN



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

METER NUMBER  
 0-100%  
 DATE TAKEN OFF  
 1525  
 DATE TAKEN OFF  
 7/12/24

TUBE & GAGE SIZE  
 2" x 7.5"  
 TUBE TAKEN OFF  
 1625  
 DATE TAKEN OFF  
 7/12/24

MW-0-100%  
 0-100%  
 SIGNED *AMIDAKO* PAT. GWA  
 YOUNG LAM'S LTD

HEIKENSON  
 ODELL  
 WILKINSON  
 WILKINSON (2552-2553)  
 WILKINSON (2552-2553)  
 WILKINSON (2552-2553)  
 WILKINSON (2552-2553)  
 WILKINSON (2552-2553)

CHART  
 TO SHIP  
 PLANT



**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. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE	
TUESDAY 7-12-94																		7-14-94
															REMARKS PERTINENT TO TEST DATA QUALITY			
1525															GAS VOLUMES CORRECTED TO A .720 GRAVITY.			
															RUN 1 STAND DRILLPIPE. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2552), WINFIELD SAND (2552-2559), AND WINFIELD CARBONATE (2559-2591).			
1530									42		37.15							
1535									71		48.20							
1540									86		53.04							
1545									92		54.86							
1550									98		56.69				CHANGE TO 3/4" PLATE.			
1555									58		98.59							
1600									34		75.59							
1605									28		68.56							
1610									29		69.88							
1615									29		69.88							
1620									29		69.88							
1625									29		69.88				END FLOW TEST. PREPARE TO RUN CORE BARREL.			
2215															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), AND GAGE (2591-2608).			
2220									15		22.37							
2225									15		22.37							
2230									16		22.91							

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

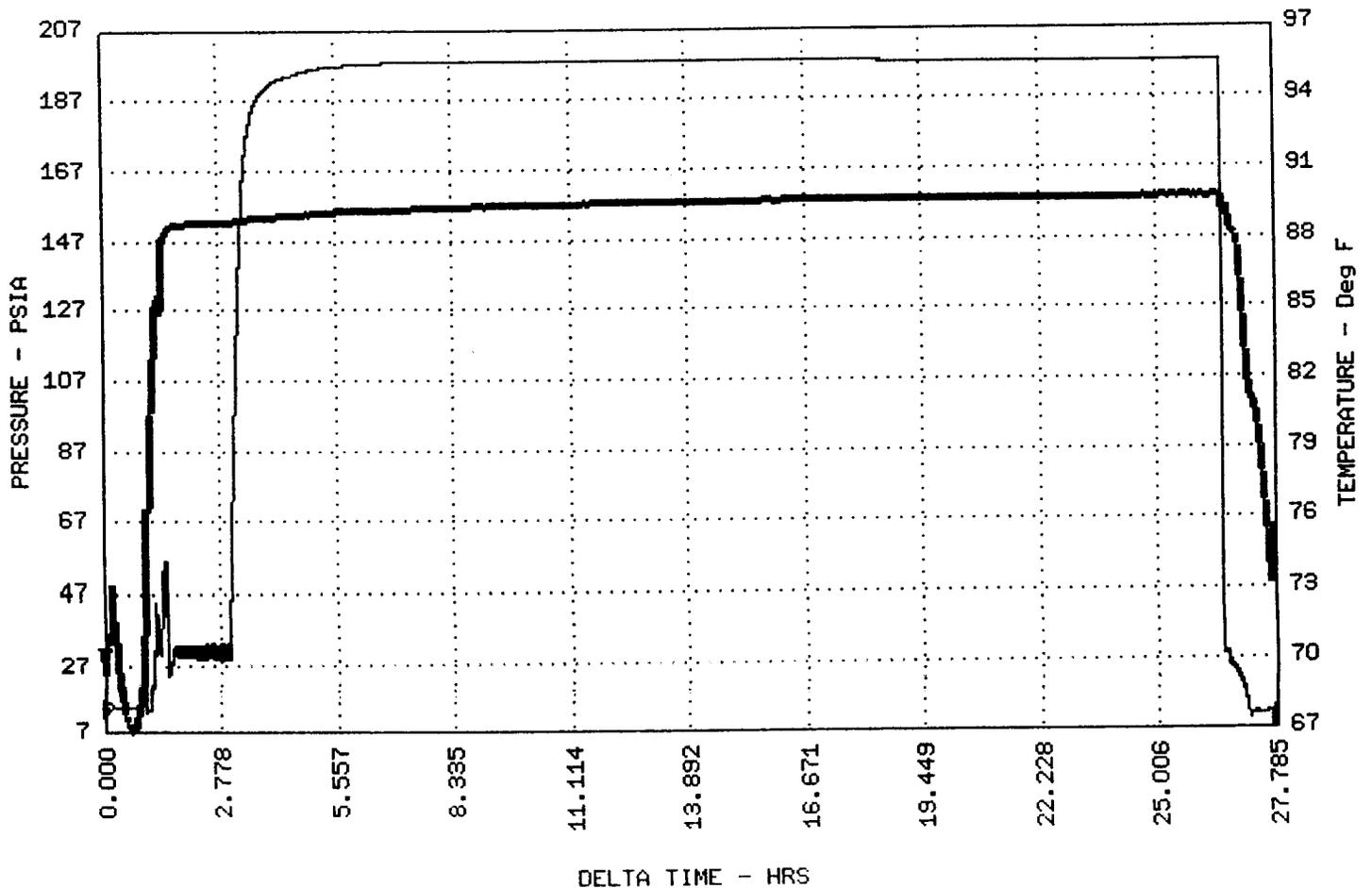
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING DATE	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.					ANNUAL _____
TUESDAY 7-12-94	(CONTD)																	
2235									18		24.28							
2240									19		24.92							
2245									21		26.20							
2250									22		26.83							
2255									22		26.83							
2300									23		27.61							
2305									25		28.57							
2310									26		29.12							
2315									27		29.71							END FLOW TEST. PREPARE TO RUN DST #6.
WEDNESDAY 7-13-94																		
0108																		SET PACKER. INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON 2420-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), AND WINFIELD CARBONATE (2591-2608).
0113									36		34.32							
0118									38		35.23							
0123									41		36.65							CHANGE TO 3/4" PLATE.
0128									6		31.68							
0133									8		36.51							
0138									8		36.51							
0143									8		36.51							
0148									8		36.51							
0153									9		38.80							
0158									9		38.80							
0203																		



# 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: GAGE (2591-2608) RETEST  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2601'.

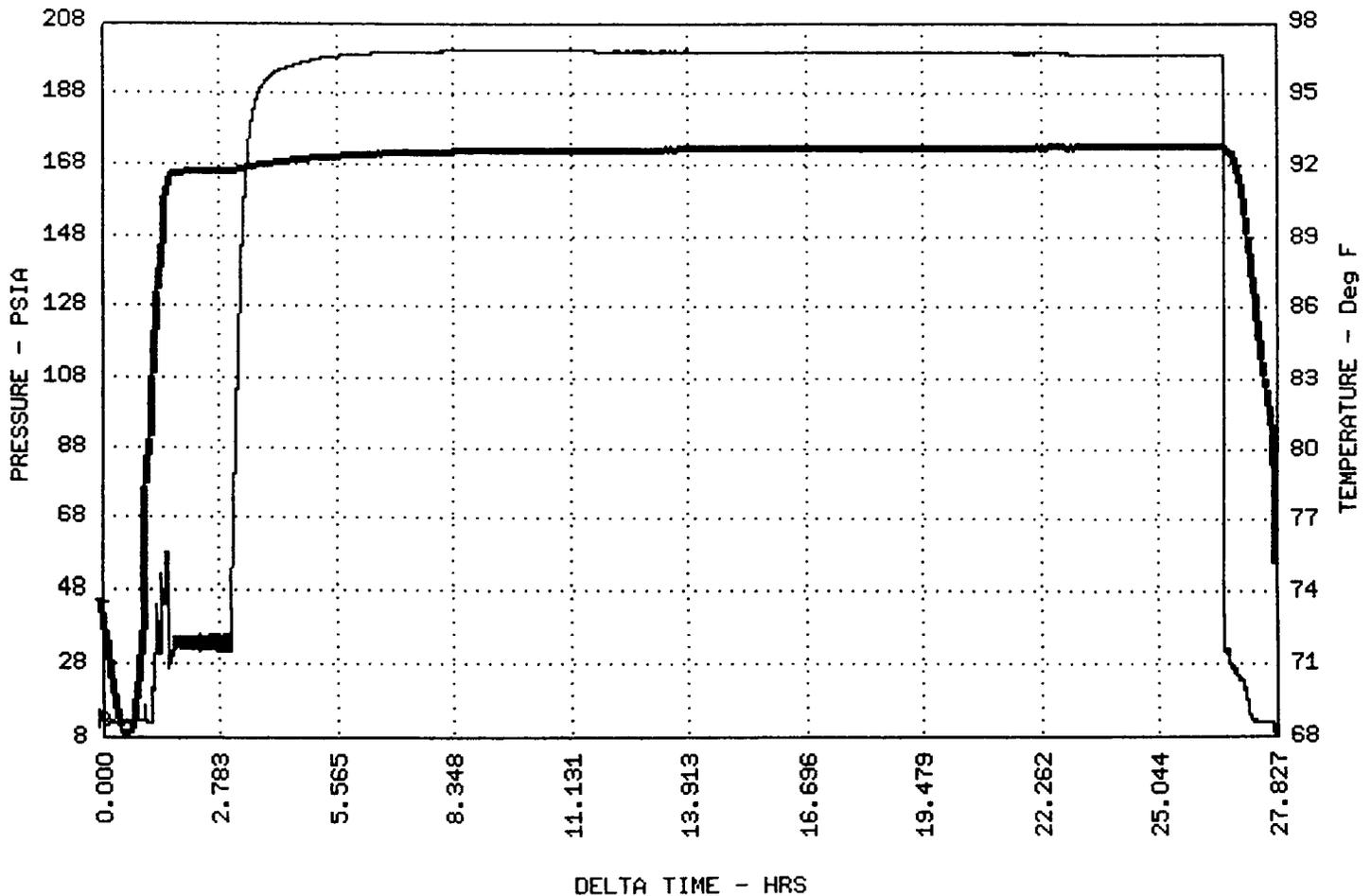
Starting date: 07/14/94  
time: 05:26:00



# 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: GAGE (2591-2608) RETEST  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2605'.

Starting date: 07/14/94  
time: 05:26:00



NATURAL GAS ANALYSIS REPORT

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

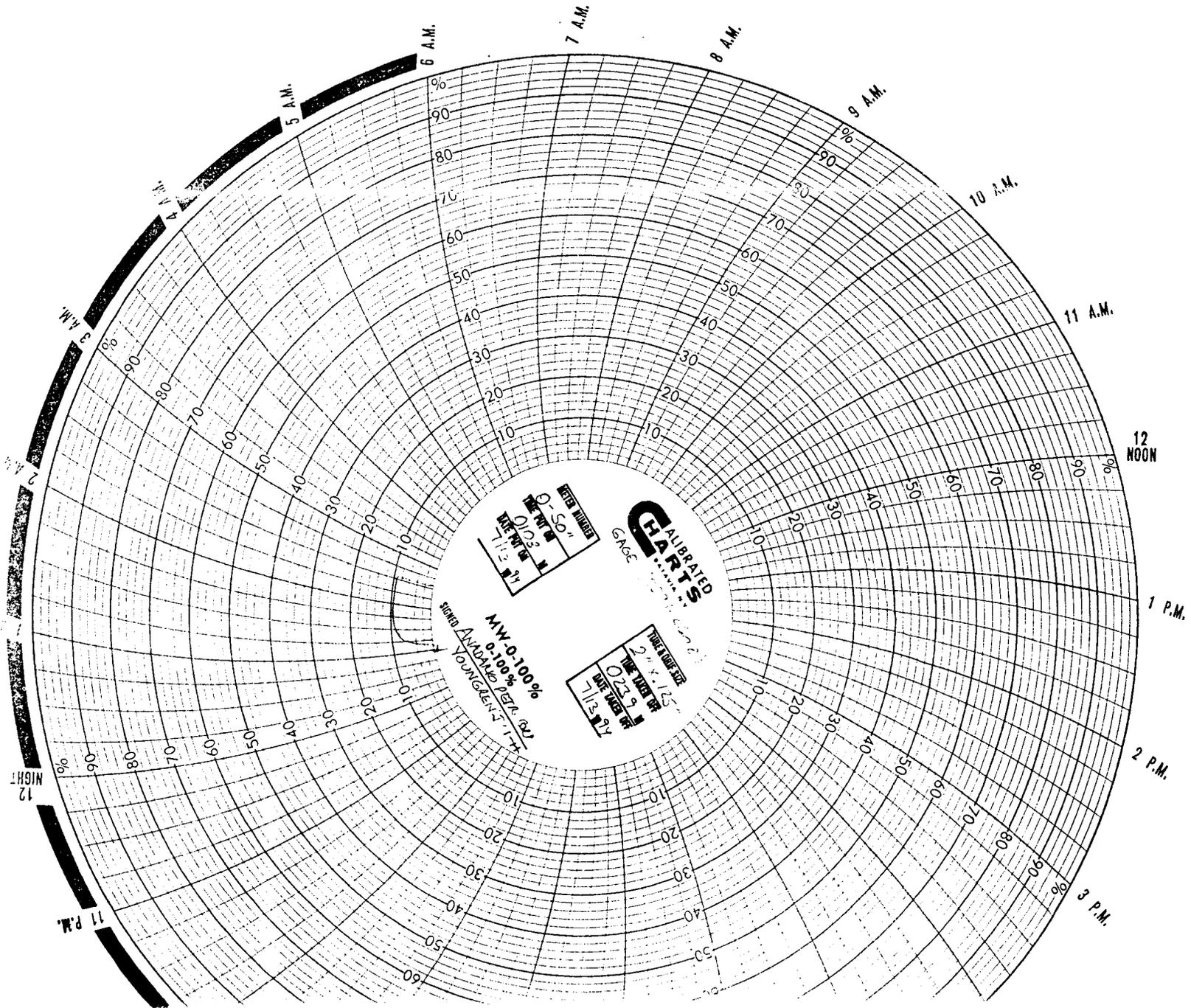
Analyzed by:  
 Caraway Analytical, L.L.C.  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

Lab Number: 940346  
 Sample From: Youngren 'J' 1-H DST 7  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/16/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Gage

	Mole %	GPM
Helium	He: 0.275	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 14.100	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 72.909	0.000
Ethane	C2: 6.823	1.825
Propane	C3: 3.853	1.062
Iso Butane	iC4: 0.428	0.140
Normal Butane	nC4: 0.966	0.305
Iso Pentane	iC5: 0.126	0.046
Normal Pentane	nC5: 0.202	0.073
Hexanes Plus	C6+: 0.318	0.139
	TOTAL: 100.000	3.589
	Z Fact: 0.9975	
	SP.GR.: 0.7183	
	BTU (SAT): 1015.9	@ 14.73 psia
	BTU (DRY): 1033.9	@ 14.73 psia
	OCTANE RATING: 107.1	

COMMENTS:



METEOR NUMBER  
 0.50  
 DATE  
 11-2-37

CALIBRATED  
 GAGE

THEE GAGE  
 2" x 1/2"  
 0229  
 DATE  
 11-2-37

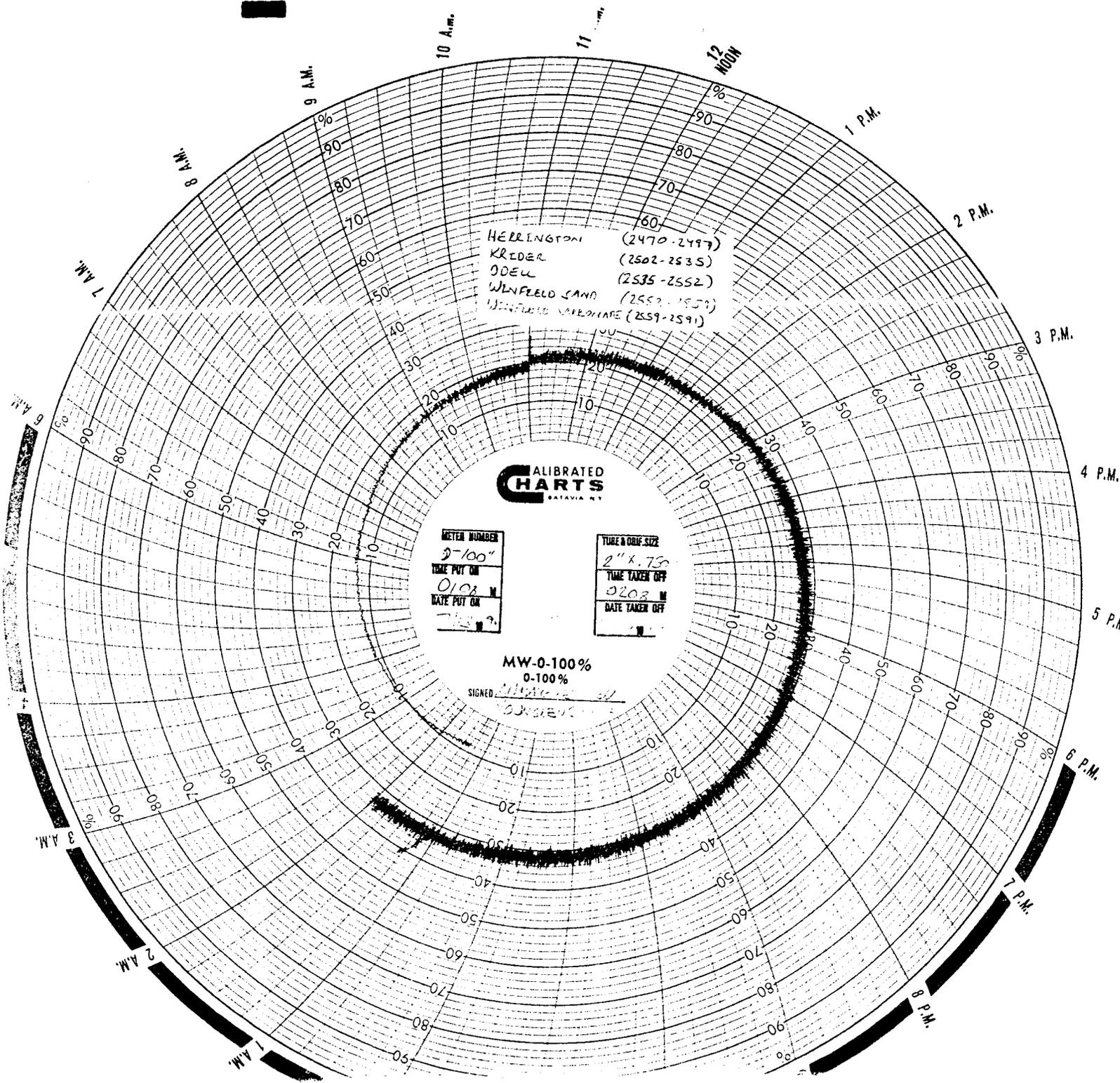
M.V. 0-100%  
 0-100% PERA 100  
 SIMON ANDRUS  
 YOUNGERS-174



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	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.	WATER BBL.						
WEDNESDAY 7-13-94	(CONTD)																	7-14-94	
0143										4.5		1.02							
0148										4.5		1.02							
0153										4.5		1.02							
0203										4.5		1.02							
0208										4.5		1.02							
0213										4.5		1.02							
0218										4.5		1.02							
0223										4.5		1.02							
0228										4.5		1.02							
0233										4.5		1.02							
0239										4.5		1.02							CLOSE DOWNHOLE SHUT-OFF.
THURSDAY 7-14-94																			
0208																			RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
0332																			INSTRUMENTS ON SURFACE.
0338																			POWERED DOWN GRC EMS-725 INSTRUMENTS.
																			UPPER GAUGE (76095) - YOUNG1U
																			LOWER GAUGE (72289) - YOUNG1L



HERRINGTON (2470-2497)  
 KRIDER (2502-2535)  
 ODEW (2535-2552)  
 WENFELD SAND (2552-2559)  
 WENFELD MARIANNE (2559-2591)

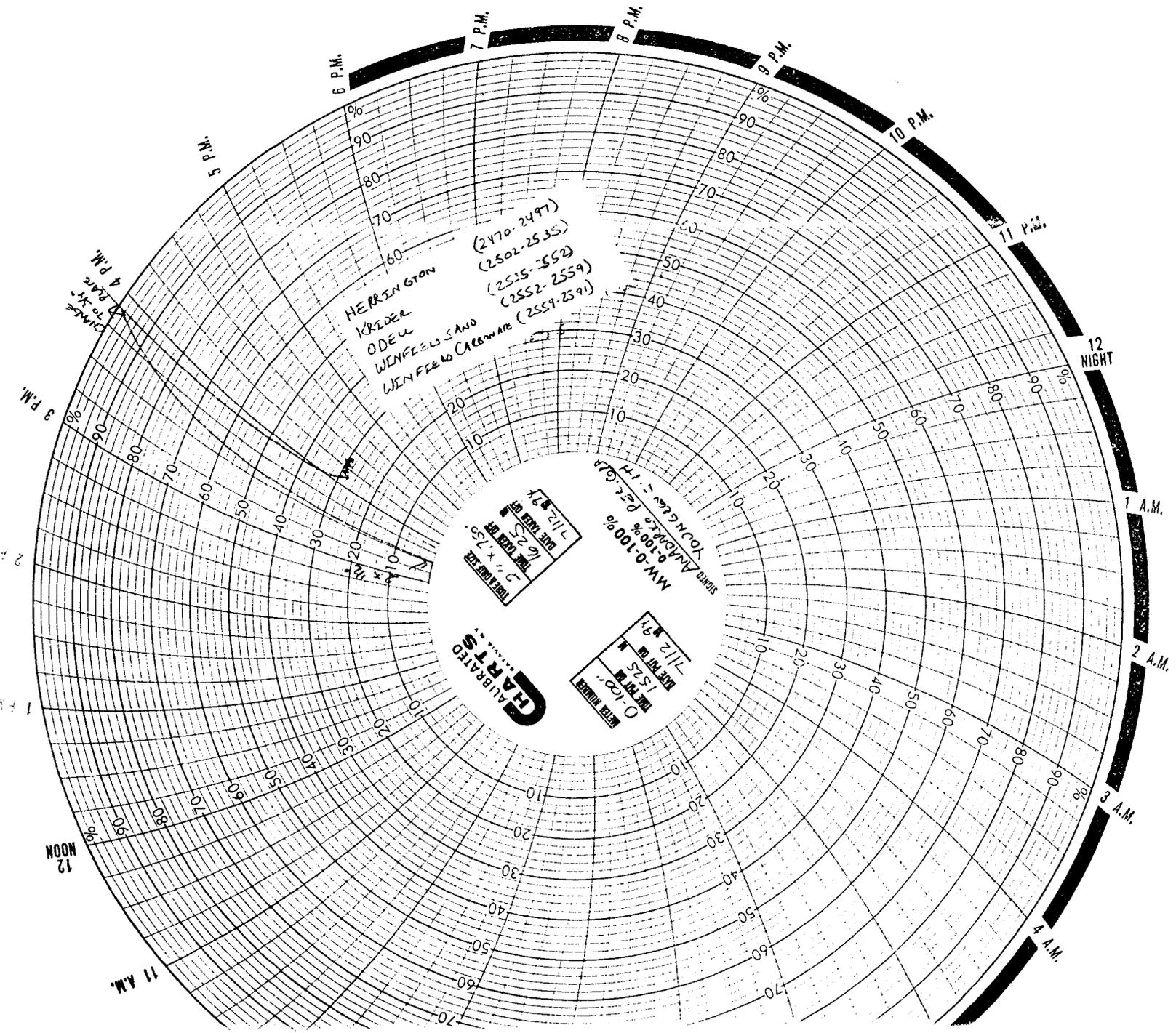
**CALIBRATED  
 HARTS**  
BATAVIA NY

METER NUMBER  
 9-100"  
 TIME PUT ON  
 0103 M  
 DATE PUT ON  
 1-2-59

TUBE & ORIF. SIZE  
 2" x .75"  
 TIME TAKEN OFF  
 0203 M  
 DATE TAKEN OFF

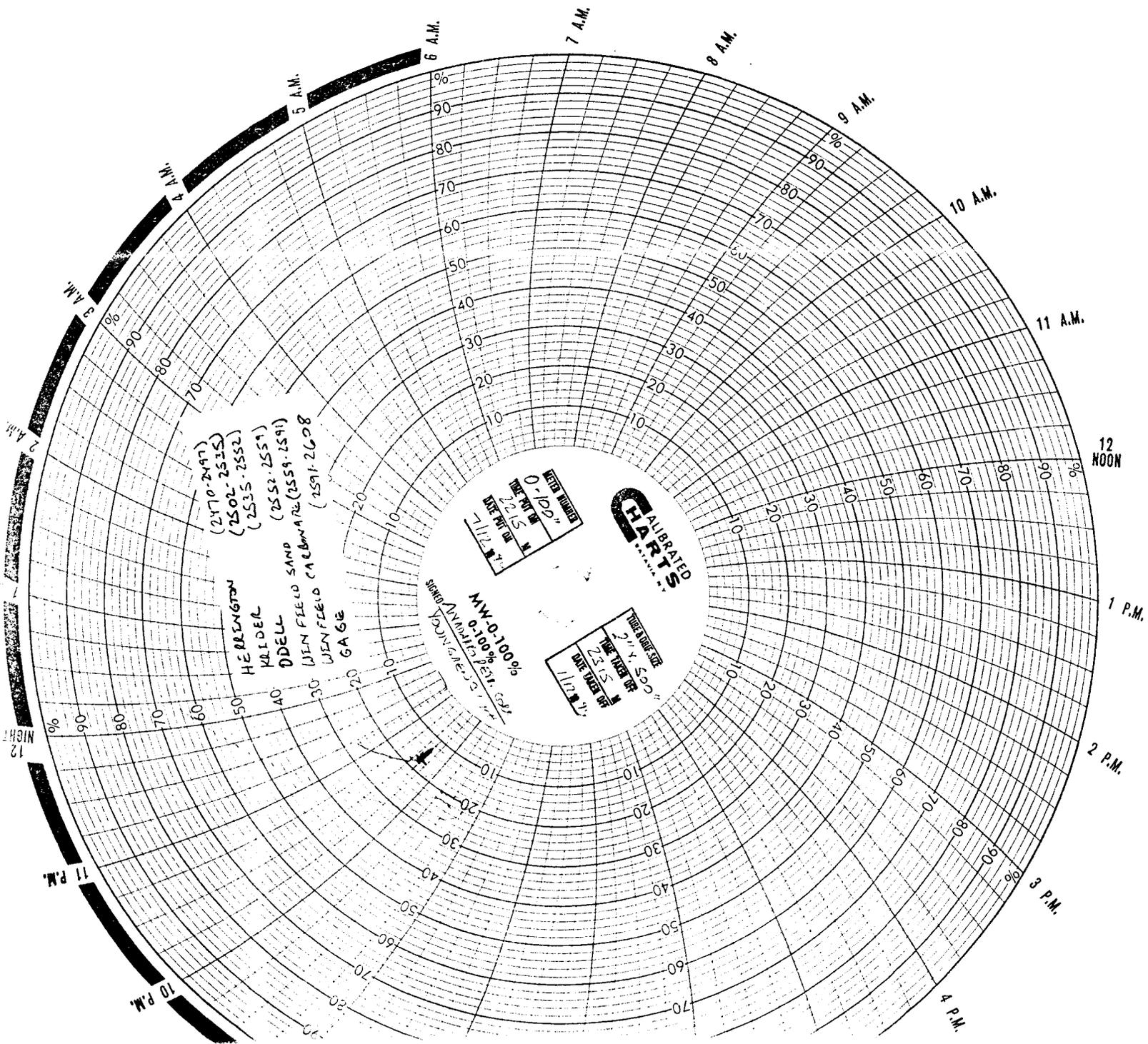
MW-0-100%  
 0-100%

SIGNED *[Signature]*



6 P.M. 7 P.M. 8 P.M. 9 P.M. 10 P.M. 11 P.M. 12 NIGHT 1 A.M. 2 A.M. 3 A.M. 4 A.M.

11 A.M. 12 NOON 1 P.M. 2 P.M. 3 P.M. 4 P.M. 5 P.M.



(2470-2497)  
 (2502-2515)  
 (2535-2552)  
 (2552-2559)  
 (2559-2591)  
 (2591-2608)

HERINGTON  
 KLIDEL  
 DELL  
 WINFIELD SAND  
 WINFIELD CALORIMETER  
 GAGE

CALIBRATED  
**CHARTS**  
 0-100%  
 WET BULB  
 TEMPERATURE  
 25.5  
 WET BULB  
 7/12/24

0-100%  
 WET BULB  
 TEMPERATURE  
 25.5  
 WET BULB  
 7/12/24

SAND CALORIMETER  
 0-100%  
 WET BULB  
 TEMPERATURE  
 25.5  
 WET BULB  
 7/12/24

**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
TUESDAY 7-12-94																	7-14-94
															REMARKS PERTINENT TO TEST DATA QUALITY		
1525															GAS VOLUMES CORRECTED TO A .720 GRAVITY.		
															RUN 1 STAND DRILLPIPE. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2552), WINFIELD SAND (2552-2559), AND WINFIELD CARBONATE (2559-2591).		
1530								42		37.15							
1535								71		48.20							
1540								86		53.04							
1545								92		54.86							
1550								98		56.69					CHANGE TO 3/4" PLATE.		
1555								58		98.59							
1600								34		75.59							
1605								28		68.56							
1610								29		69.88							
1615								29		69.88							
1620								29		69.88							
1625								29		69.88					END FLOW TEST. PREPARE TO RUN CORE BARREL.		
2215															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), AND GAGE (2591-2608).		
2220								15		22.37							
2225								15		22.37							
2230								16		22.91							

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

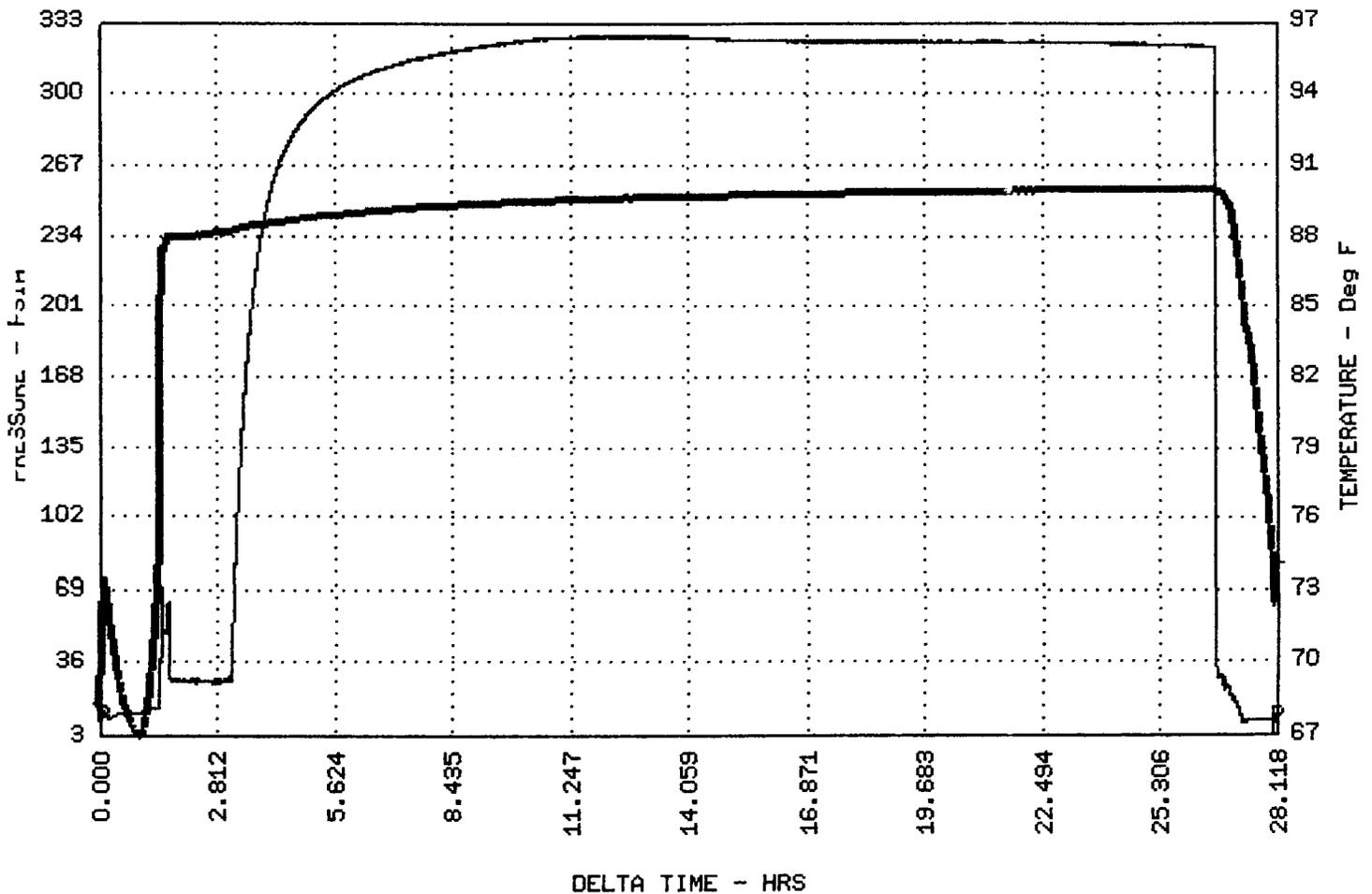
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING DATE _____	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.	WATER BBLs.					ANNUAL _____
TUESDAY 7-12-94	(CONTD)																	
2235										18		24.28						
2240										19		24.92						
2245										21		26.20						
2250										22		26.83						
2255										22		26.83						
2300										23		27.61						
2305										25		28.57						
2310										26		29.12						
2315										27		29.71						END FLOW TEST. PREPARE TO RUN DST #6.
WEDNESDAY 7-13-94																		
0108																		SET PACKER. INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON 2420-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), AND WINFIELD CARBONATE (2591-2608).
0113										36		34.32						
0118										38		35.23						
0123										41		36.65						CHANGE TO 3/4" PLATE.
0128										6		31.68						
0133										8		36.51						
0138										8		36.51						
0143										8		36.51						
0148										8		36.51						
0153										8		36.51						
0158										9		38.80						
0203										9		38.80						



# 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: GAGE (2591-2608)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2602'.

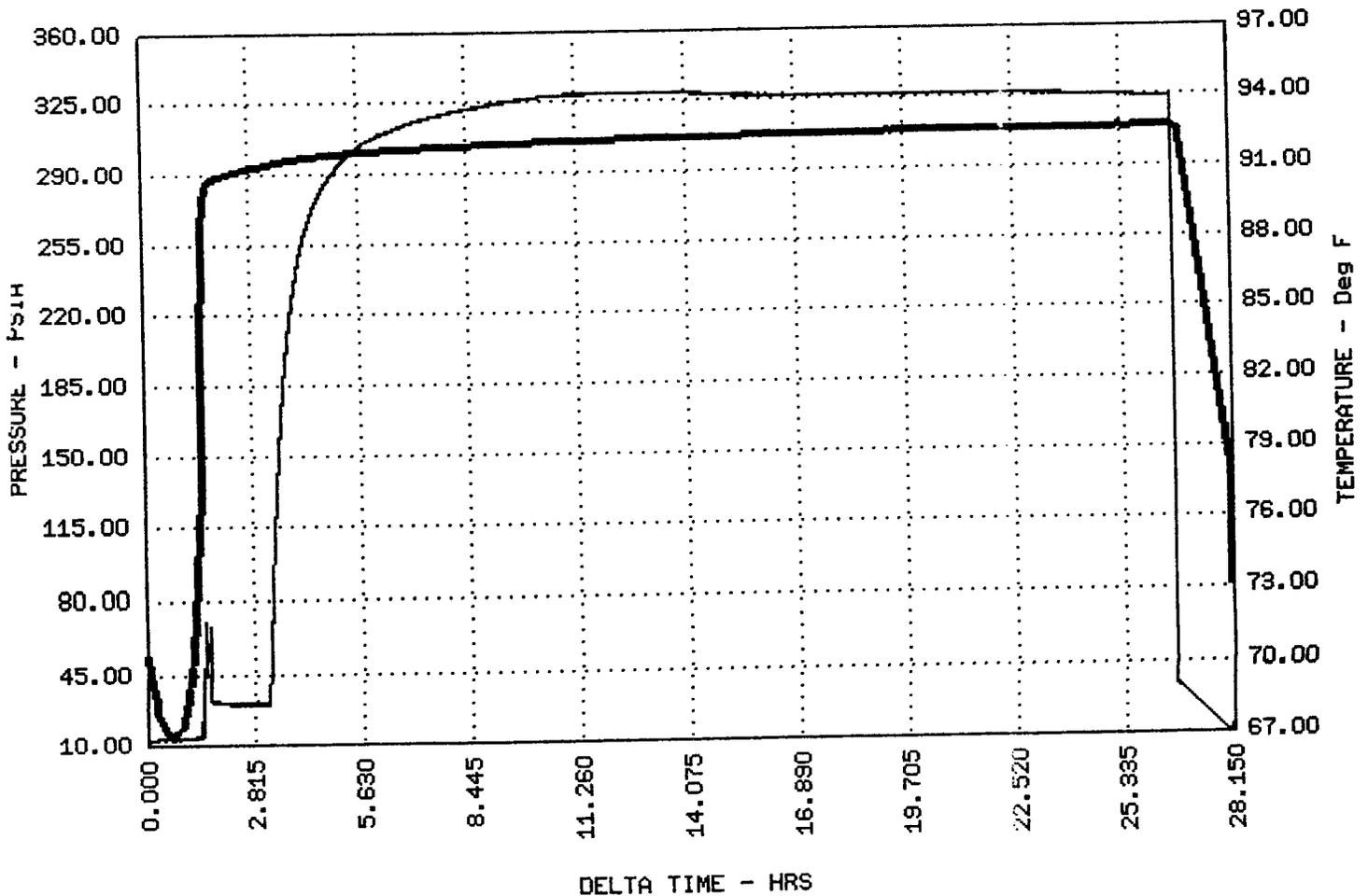
Starting date: 07/12/94  
time: 23:28:00

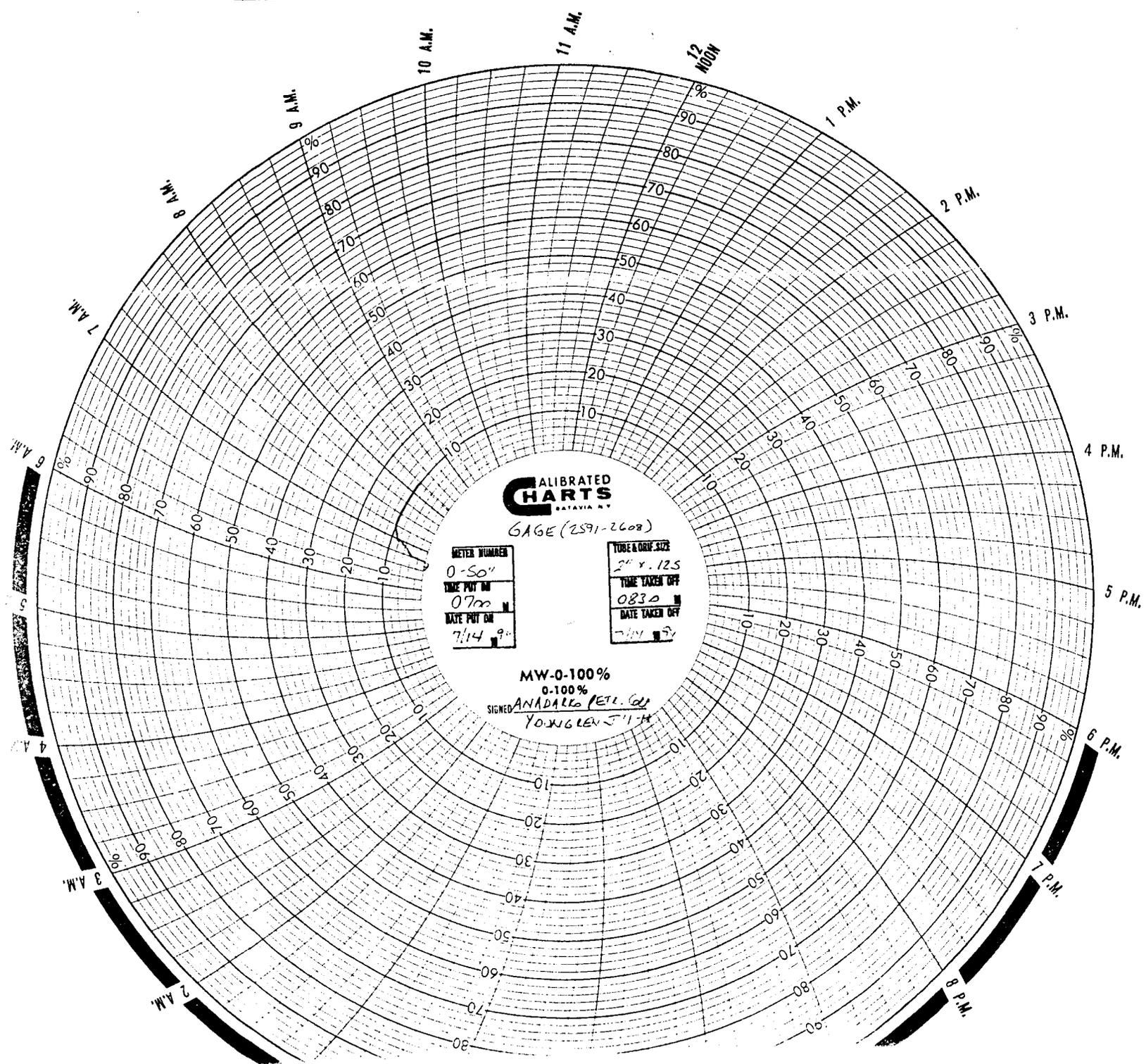


# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: GAGE (2591-2608)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2606'.

Starting date: 07/12/94  
time: 23:28:03





**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

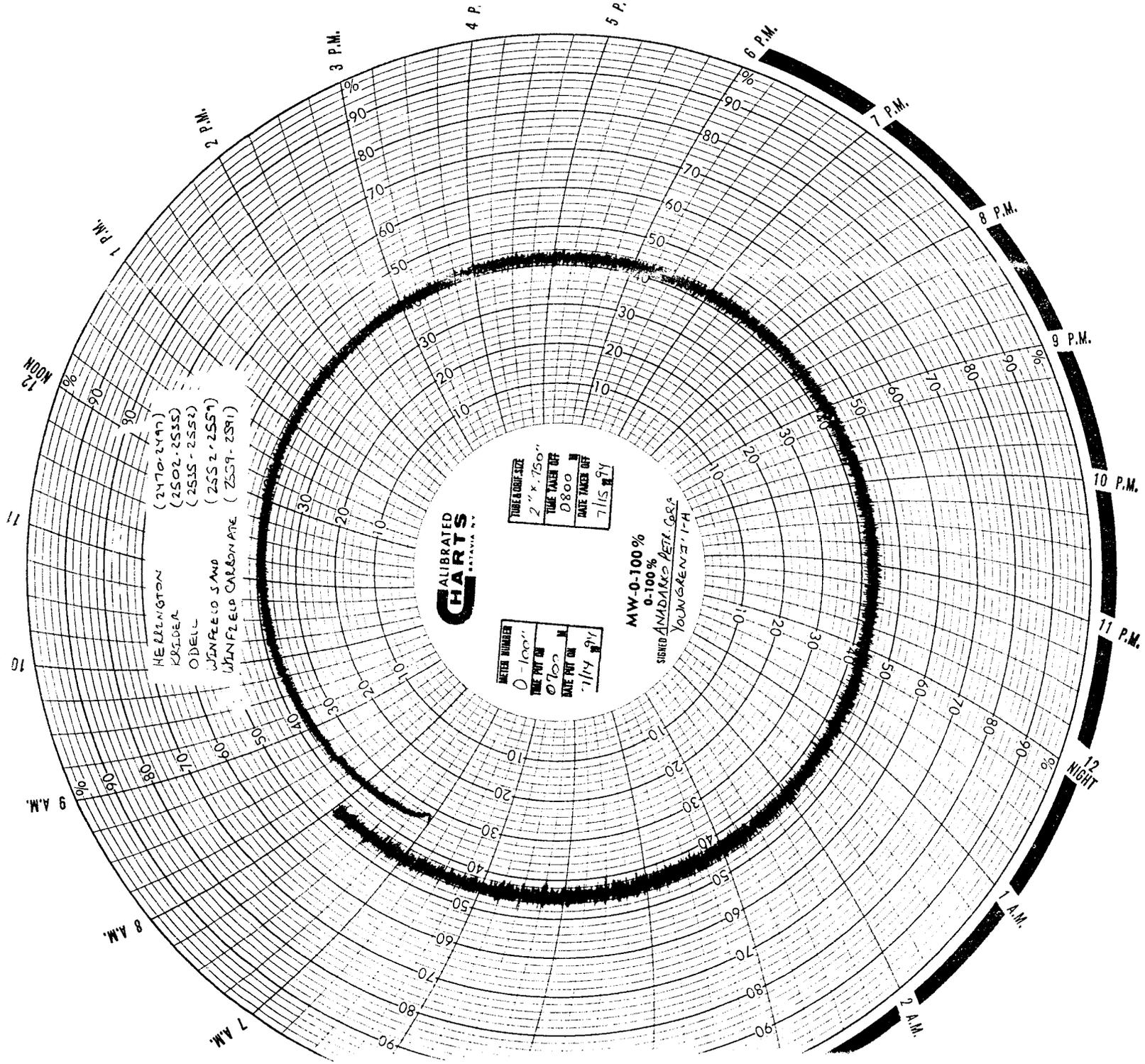
CSG 8 5/8 WT 24.0 SET @ 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET @ \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2591 TO 2608 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7183 API \_\_\_\_\_ @ \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR \_\_\_\_\_ GAGE \_\_\_\_\_

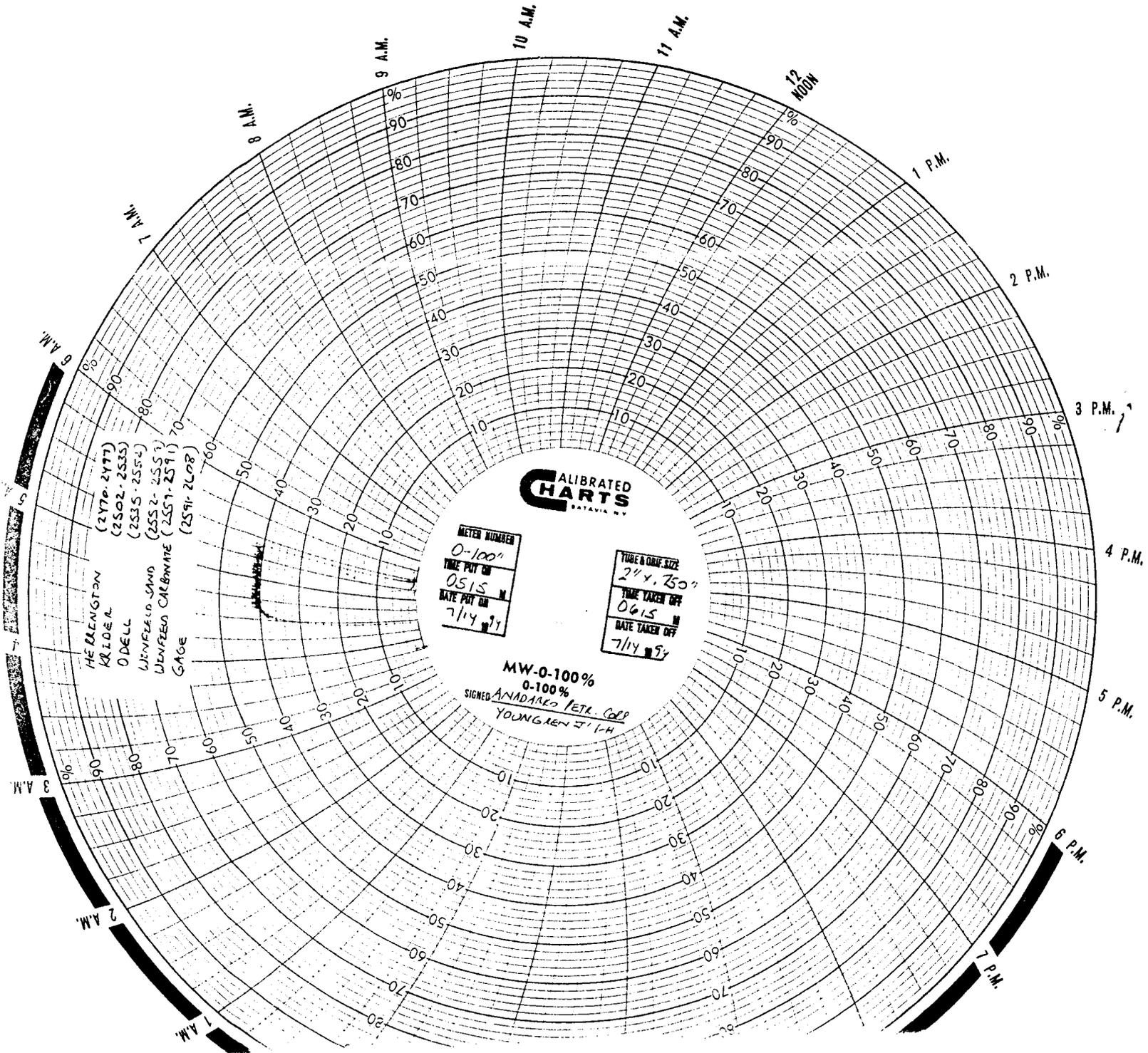
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE	
THURSDAY 7-14-94																		7-15-94
0526																		POWERED UP GRC EMS-725 INSTRUMENTS.
0535																		START IN WELL WITH INSTRUMENTS.
0657																		INSTRUMENTS ON BOTTOM.
																		BOTTOM OF TOP PACKER - 2589'
																		BOTTOM OF BOTTOM PACKER - 2597'
																		BOTTOM OF UPPER GAUGE - 2601'
																		BOTTOM OF LOWER GAUGE - 2605'
0700																		SET PACKER.
0700		START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE.																GAS VOLUMES CORRECTED TO A .7183 GRAVITY.
0705									2.0			.68						
0710									3.0			.84						
0715									4.0			.97						
0720									4.0			.97						
0725									4.5			1.02						
0730									5.0			1.08						
0735									5.0			1.08						
0740									5.0			1.08						
0745									5.0			1.08						
0750									5.0			1.08						
0755									5.0			1.08						
0800									5.0			1.08						
0805									5.0			1.08						

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.					7-15-94
THURSDAY 7-14-94	(CONTD)																	
0810										5.0		1.08						
0815										5.0		1.08						
0820										5.0		1.08						
0825										5.0		1.08						
0830										5.0		1.08						SET PACKER.
FRIDAY 7-15-94																		
0800																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
0913																		INSTRUMENTS ON SURFACE.
0916																		POWERED DOWN GRC EMS-725 INSTRUMENTS
																		UPPER GAUGE (76095) - YOUGA2U
																		LOWER GAUGE (72289) - YOUGA2L





**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. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE	
THURSDAY 7-14-94																		7-15-94
															REMARKS PERTINENT TO TEST DATA QUALITY			
0515															GAS VOLUMES CORRECTED TO A .720 GRAVITY.			
															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILL PIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), AND GAGE (2591-2608).			
0520									32		73.30							
0525									36		77.78							
0530									39		80.93							
0535									41		82.98							
0540									41		82.98							
0545									41		82.98							
0550									41		82.98							
0555									41		82.98							
0600									41		82.98							
0605									41		82.98							
0610									41		82.98							
0615									41		82.98							
															END FLOW TEST. PREPARE TO RUN DST #7 (RERUN TEST ON GAGE).			
0700															SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), AND WINFIELD CARBONATE (2559-2591).			
0705									32		73.30							
0710									32		73.30							
0715									33		74.44							

Precision Well Testing

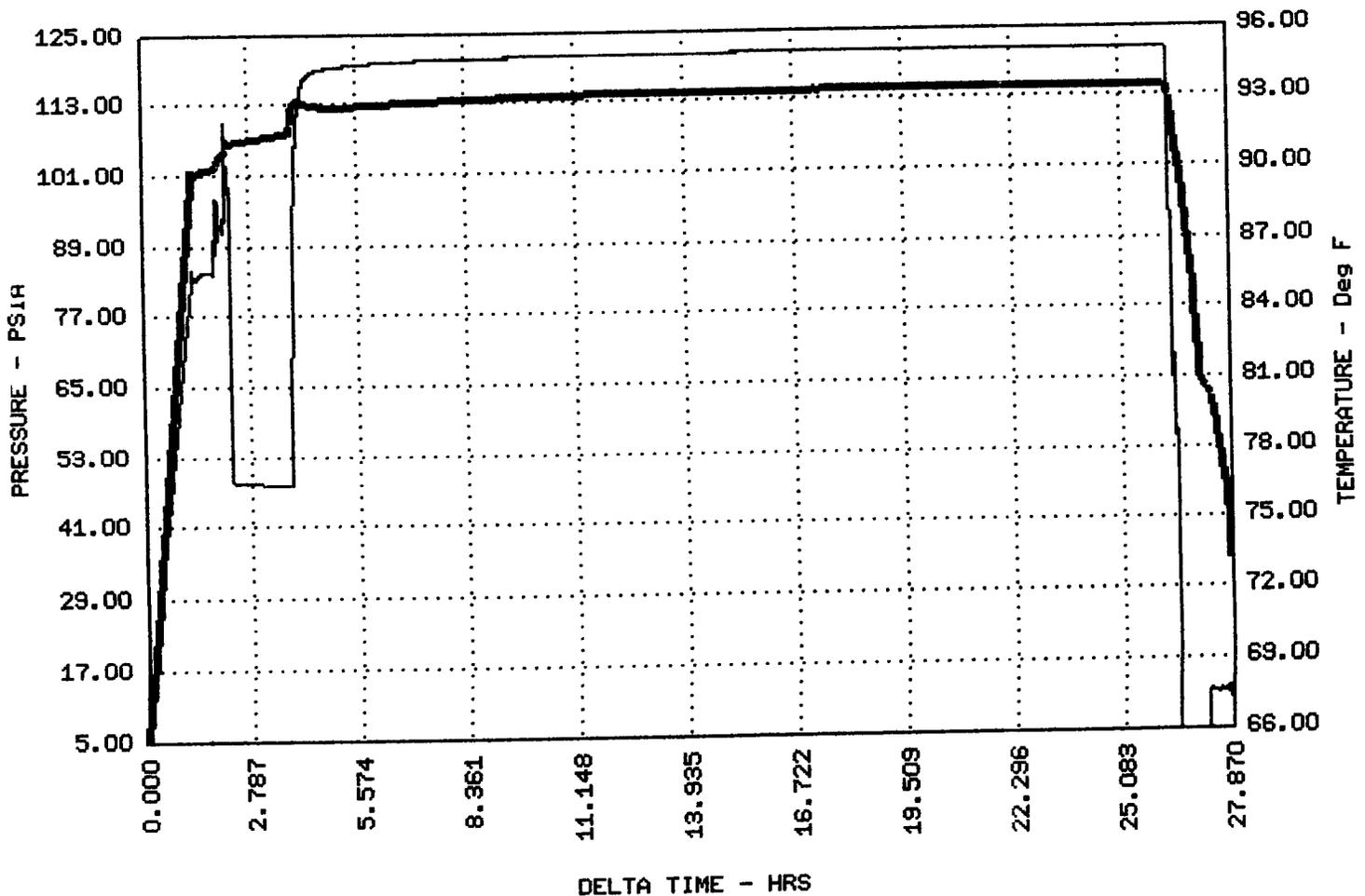
ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

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 7-14-94	(CONTD)																	7-15-94
0720									34			75.59						
0725									34			75.59						
0730									34			76.68						
0735									35			76.68						
0740									35			76.68						
0745									35			76.68						
0750									35			76.68						
0755									35			76.68						
0800									35			76.68						
0805									35			76.68						
0810									35			76.68						
0815									35			76.68						
0820									36			77.78						
0825									36			77.78						
0830									36			77.78						
FRIDAY 7-15-94																		
0800									45			86.90						RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.

# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: TOWANDA (2608-2658)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2631'

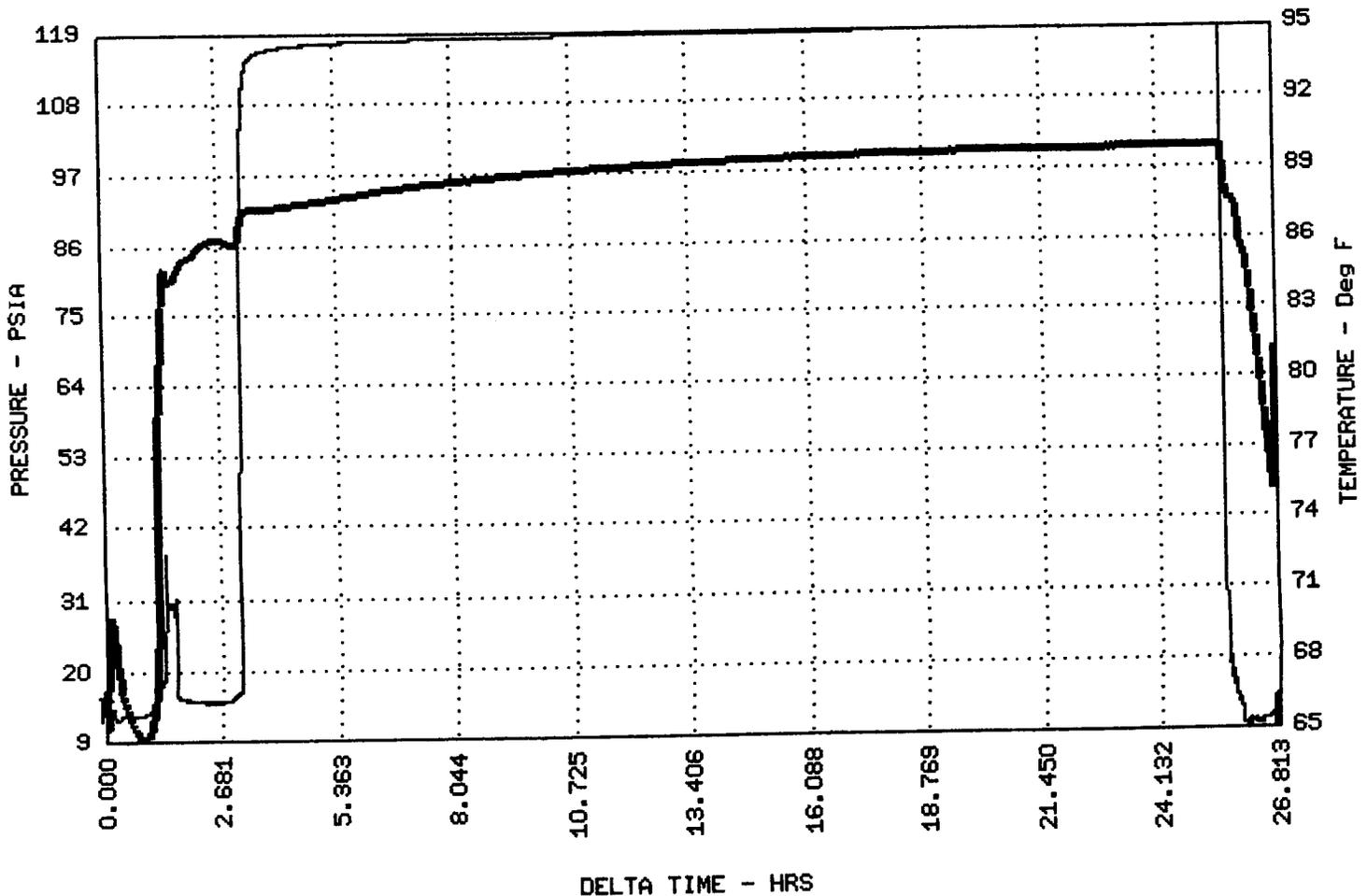
Starting date: 07/15/94  
time: 20:12:03



# 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: TOWANDA (2608-2658) RETEST  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2627'.

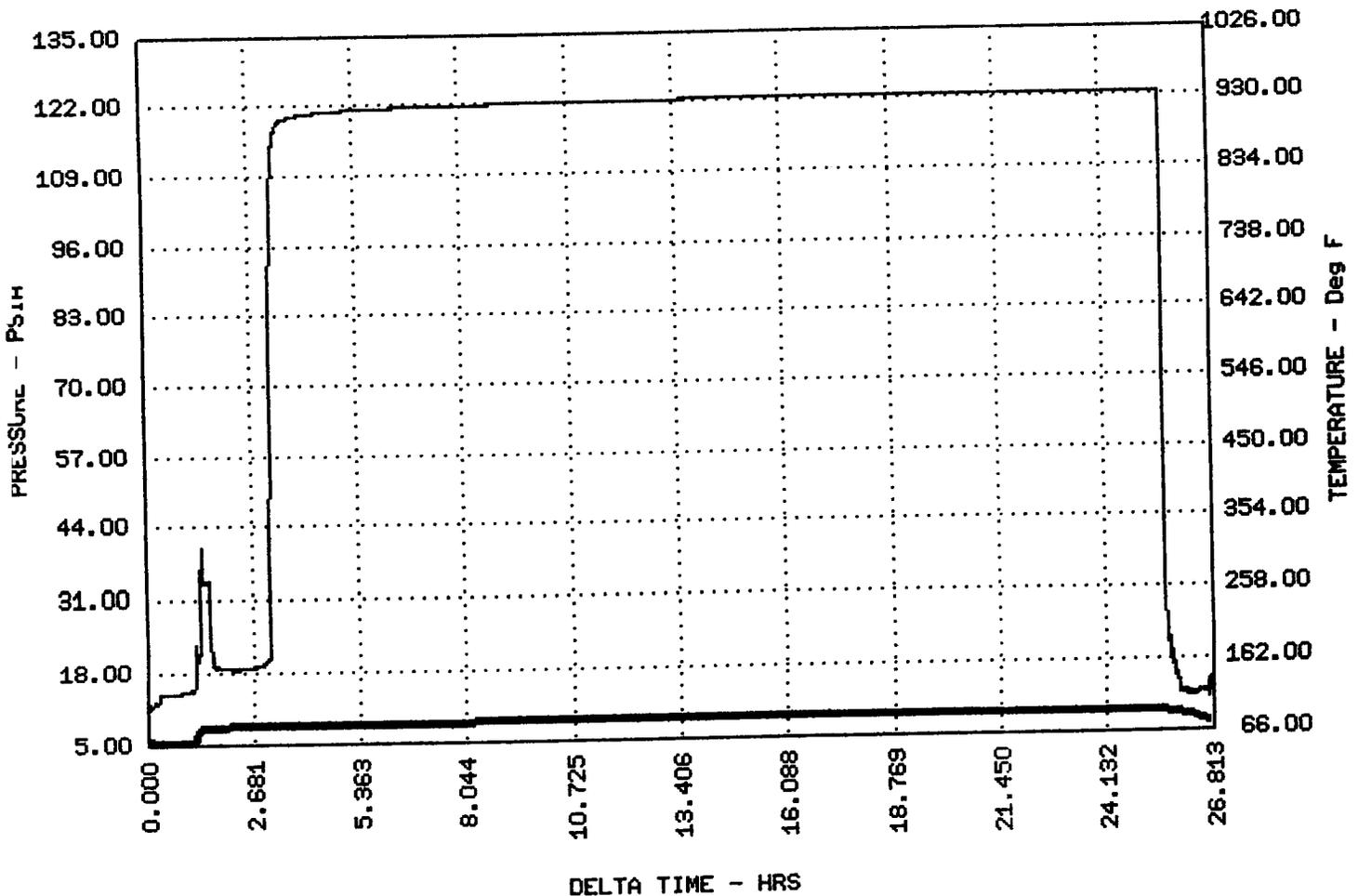
Starting date: 07/17/94  
time: 07:48:00



# WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: TOWANDA (2608-2658) RE-TEST  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2631'.

Starting date: 07/17/94  
time: 07:48:03



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

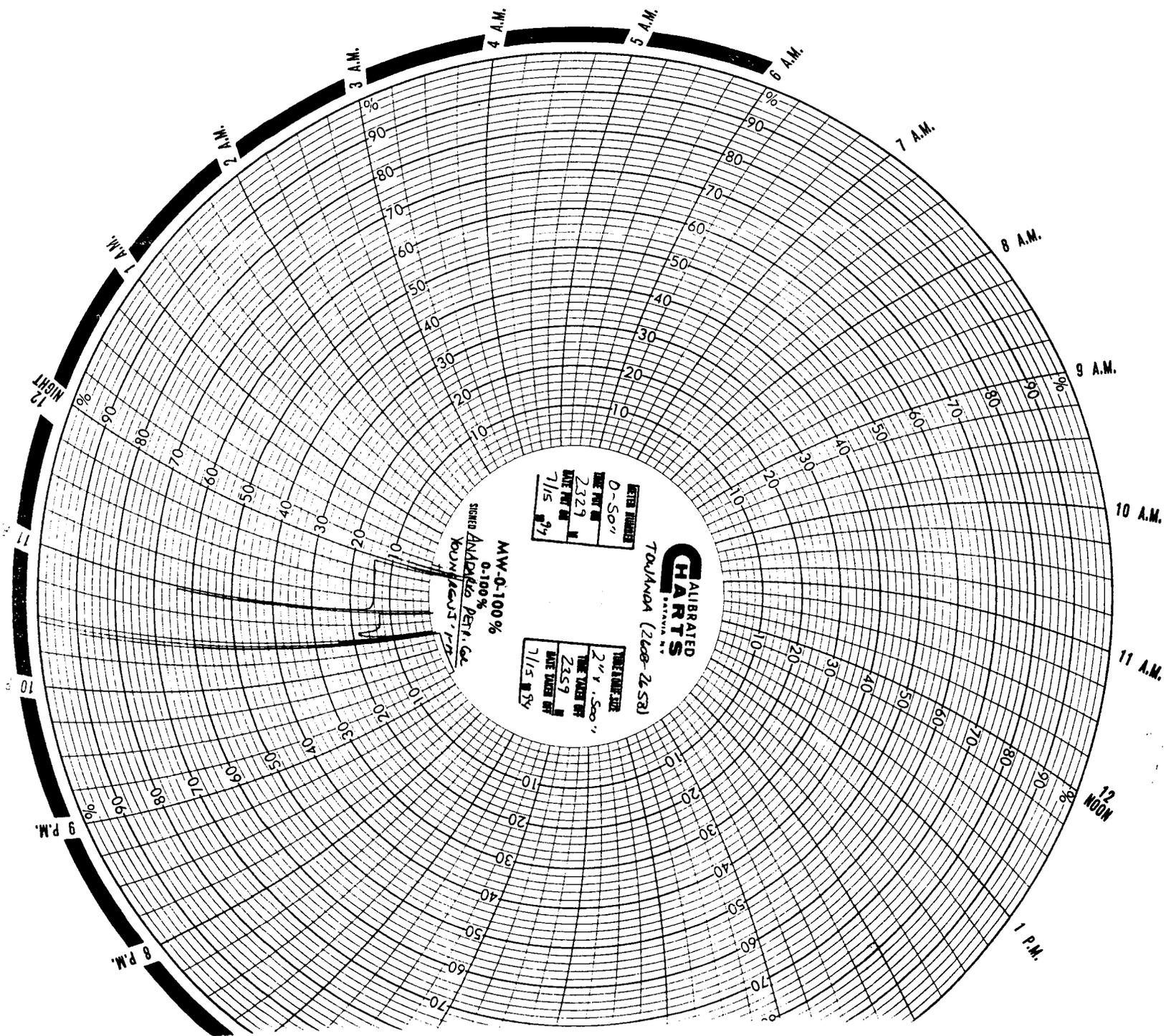
Lab Number: 940347  
 Sample From: Youngren 'J' 1-H DST 8  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/16/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Towanda

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	13.815
Carbon Dioxide	CO2:	0.075
Methane	C1:	72.963
Ethane	C2:	6.802
Propane	C3:	3.972
Iso Butane	iC4:	0.472
Normal Butane	nC4:	1.071
Iso Pentane	iC5:	0.155
Normal Pentane	nC5:	0.256
Hexanes Plus	C6+:	0.419

TOTAL: 100.000 3.738  
 Z Fact: 0.9974  
 SP.GR.: 0.7266  
 BTU (SAT): 1032.3 @ 14.73 psia  
 BTU (DRY): 1050.6 @ 14.73 psia  
 OCTANE RATING: 107.5

COMMENTS: Sample entered under vaccum  
 Insufficient pressure for Helium analysis



12 NIGHT  
 11  
 10  
 9 P.M.  
 8 P.M.  
 7 A.M.  
 6 A.M.  
 5 A.M.  
 4 A.M.  
 3 A.M.  
 2 A.M.  
 1 A.M.  
 12 NOON  
 11 A.M.  
 10 A.M.  
 9 A.M.  
 8 A.M.  
 7 A.M.  
 6 A.M.  
 5 A.M.  
 4 A.M.  
 3 A.M.  
 2 A.M.  
 1 A.M.

**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 2608 TO 2658 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
GG .727 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR TOWANDA

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.				
FRIDAY 7-15-94																7-17-94
11110																START IN WELL WITH CORE BARREL.
1215																CORE BARREL ON BOTTOM.
1235																START CORING.
1415																FINISH CORING TOWANDA (2608-2658).
1615																CORE BARREL ON SURFACE.
2012																POWERED UP GRC EMS-725 INSTRUMENTS.
2015																START IN WELL WITH INSTRUMENTS.
2226																INSTRUMENTS ON BOTTOM.
																BOTTOM OF TOP PACKER - 2612'
																BOTTOM OF BOTTOM PACKER - 2617'
																BOTTOM OF UPPER GAUGE - 2627'
																BOTTOM OF LOWER GAUGE - 2631'
2229																SET PACKER.
2229																START FLOW PERIOD WITH 2" O.W.T. AND 1/2" PLATE.
2234										6.5			14.54			GAS VOLUMES CORRECTED TO A .7266 GRAVITY.
2239										8.0			15.63			
2244										7.0			15.17			GAS TO SURFACE.
2249										6.5			14.54			
2254										6.5			14.54			
2259										6.5			14.54			
2304										7.0			15.17			
2309										7.0			15.17			

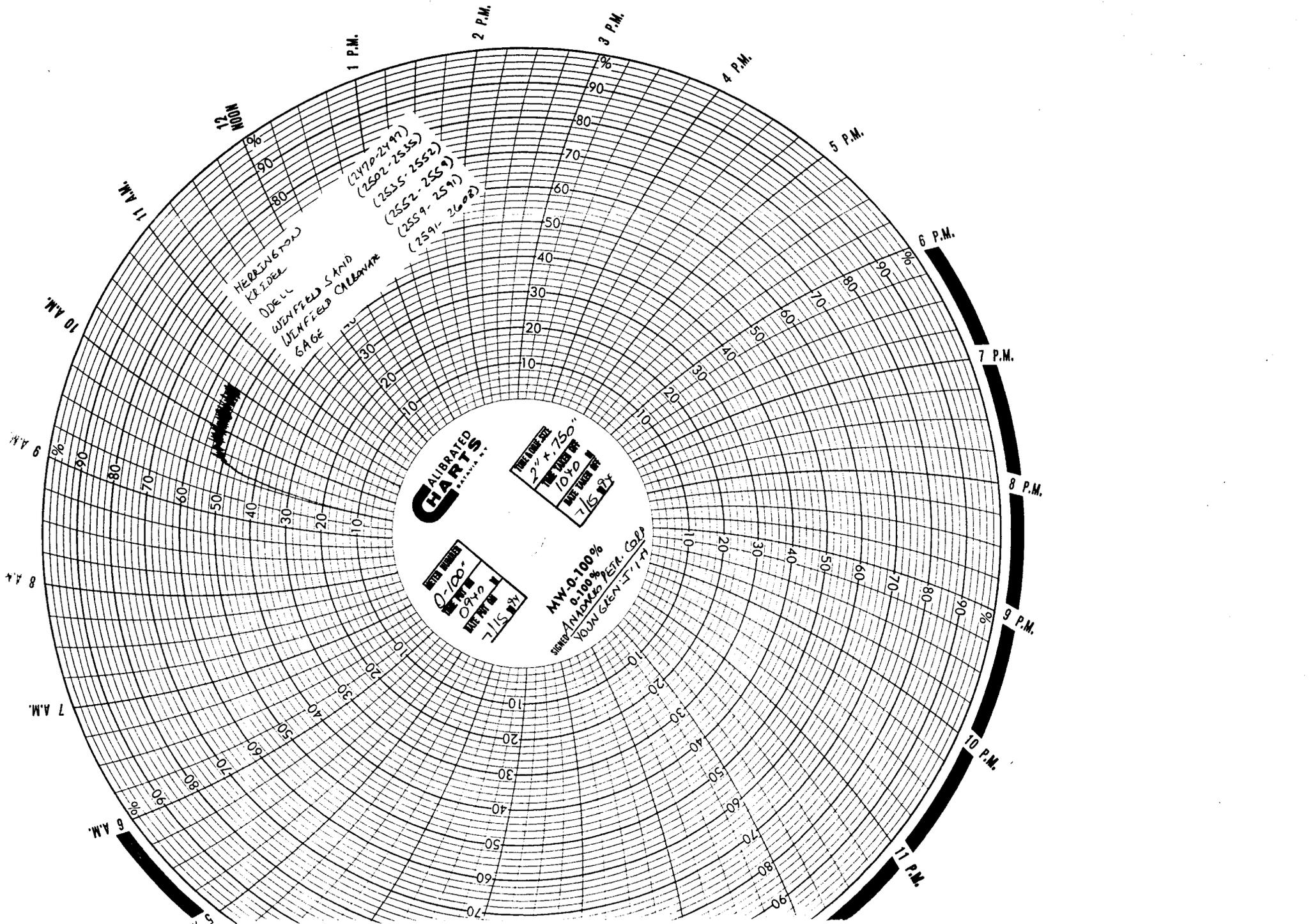
Precision Well Testing

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	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.	WATER BBL.					
FRIDAY 7-15-94	(CONTD)																	
2314									7.0		15.17							
2319									7.0		15.17							
2324									7.0		15.17							
2329									7.0		15.17							
2334									7.0		15.17							
2339									7.0		15.17							
2344									7.0		15.17							
2349									7.0		15.17							
2354									7.0		15.17							
2359									7.0		15.17							SET PACKER.
SATURDAY 7-16-94																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
2230																		
SUNDAY 7-17-94																		
0000																		INSTRUMENTS ON SURFACE.
0003																		POWERED DOWN GRC EMS-725 INSTRUMENTS.
																		UPPER GAUGE (76095) - NO DATA
																		LOWER GAUGE (72289) - YOUTOIL
																		(INSTRUMENTS APPEAR TO HAVE BEEN IN COMPRESSION IN THE TOOL STRING).







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.

9 P.M.

10 P.M.

11 P.M.

11 A.M.

10 A.M.

9 A.M.

8 A.M.

7 A.M.

6 A.M.

HEEDINGBROS  
K8 IDEAL  
ODELL  
WENFELD SAND  
WENFELD CALIBRATOR  
GAGE

(2470-2471)  
(2502-2535)  
(2535-2552)  
(2552-2559)  
(2559-2591)  
(2591-2602)

**CALIBRATED CHARTS**  
MADE IN U.S.A.

TYPE NUMBER  
2" x 7.50"  
TYPE TAPER PER  
10%  
BASE TAPER PER  
7.15 PER

TYPE NUMBER  
0-100%  
TYPE TAPER PER  
10%  
BASE TAPER PER  
7.15 PER

MW-0-100%  
SERIAL AN/AP/065 EST. COPP  
YOUNG & RUBENSTEIN

**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 \_\_\_\_\_

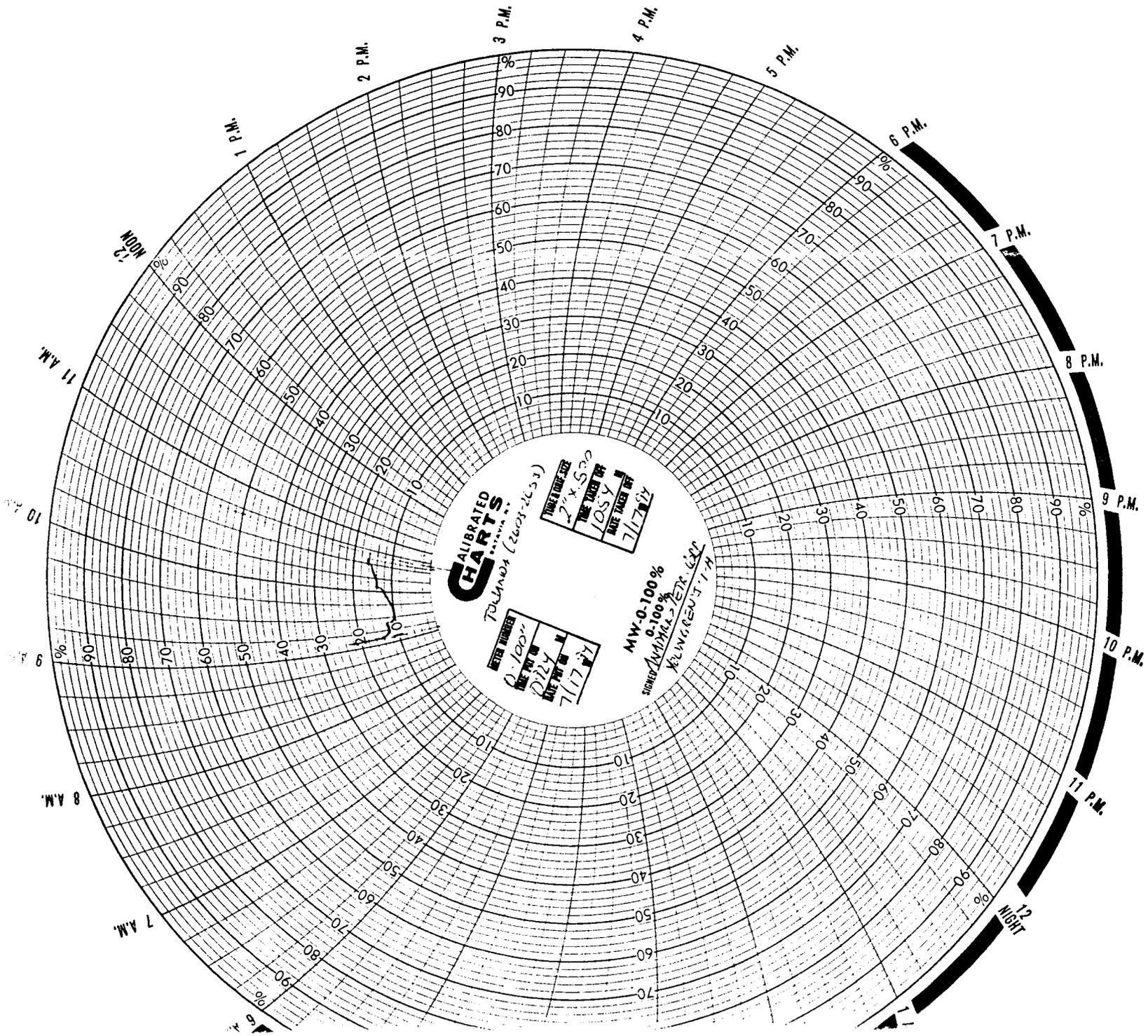
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
FRIDAY 7-15-94																	7-16-94
0940																	REMARKS PERTINENT TO TEST DATA QUALITY  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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), AND GAGE (2591-2608).
0945							43		84.94								
0950							50		91.29								
0955							52		93.11								
1000							53		94.03								
1005							53		94.03								
1010							53		94.03								
1015							53		94.03								
1020							53		94.03								
1025							53		94.03								
1030							53		94.03								
1035							54		94.94								
1040							54		94.94								
1658																	END FLOW TEST. PREPARE TO RUN CORE BARREL.  RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PALTE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559) WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), AND TOWANDA (2608-2658).
1703							2		18.26								
1708							3		22.37								
1713							3		22.37								

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	
FRIDAY 7-15-94	(CONTD)																	7-16-94
1718									3			22.37						
1723									3			22.37						
1728									3			22.37						
1733									3			22.37						
1738									3			22.37						
1743									3			22.37						
1748									4			25.83						
1753									4			25.83						
1758									4			25.83						
2229																		END FLOW TEST. ROTATING HEAD LEAKING SOME (WILL CHANGE OUT ON NEXT TEST). SET PACKER. INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), AND GAGE (2591-2608).
2234									2			8.10						
2239									1			5.72						
2244									1			5.72						
2249									1			5.72						
2254									0			0						
2259									0			0						
2304									0			0						
2309									0			0						
2314									0			0						
2319									0			0						
2324									0			0						
2329									0			0						
2334									0			0						
2339									0			0						





**CALIBRATED CHARTS**  
Tollman (202-212-233)

WET BULB  
0-100°  
DIPY  
7/17/74

DRY BULB  
2" x 5"  
105°  
7/17/74

MW-0.100%  
0-100%  
KELWIGREUT 174



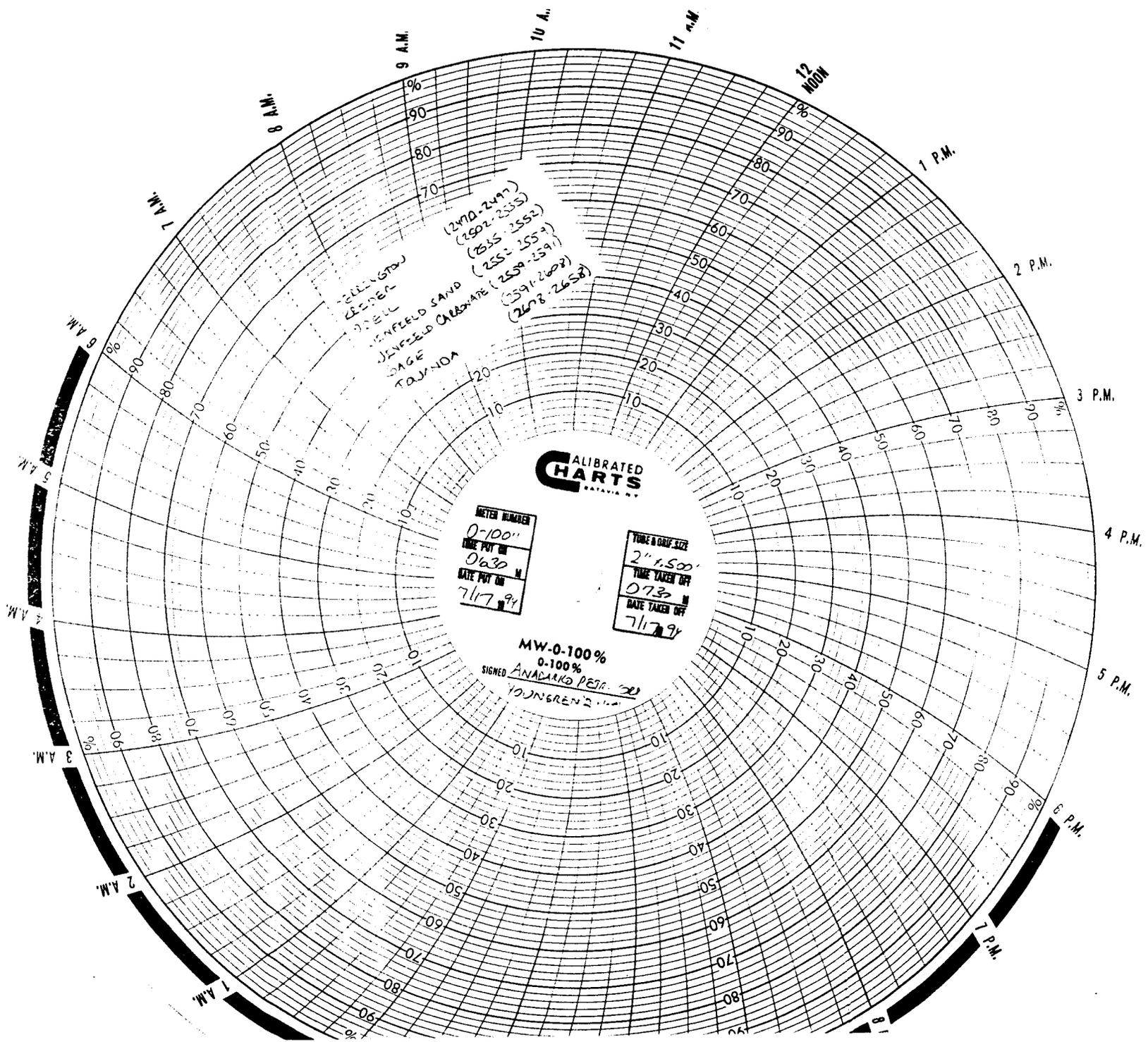


Precision Well Testing

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.					ANNUAL _____
SUNDAY 7-17-94	(CONTD)																	REMARKS PERTINENT TO TEST DATA QUALITY
1019									6.5			14.54						
1024									7.0			15.18						
1029									7.0			15.18						
1034									7.0			15.18						
1039									7.5			15.40						
1044									7.5			15.40						
1049									7.5			15.40						
1054									8.0			15.63						SET PACKER.
MONDAY 7-18-94																		
0924																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
1031																		INSTRUMENTS ON SURFACE.
1036																		POWERED DOWN GRC EMS-725 INSTRUMENTS.
																		UPPER GAUGE (76095) - YOUT02U
																		LOWER GAUGE (72289) - YOUT02L





(2470-2471)  
 (2502-2503)  
 (2555-2556)  
 (2557-2558)  
 (2591-2592)  
 (2628-2629)

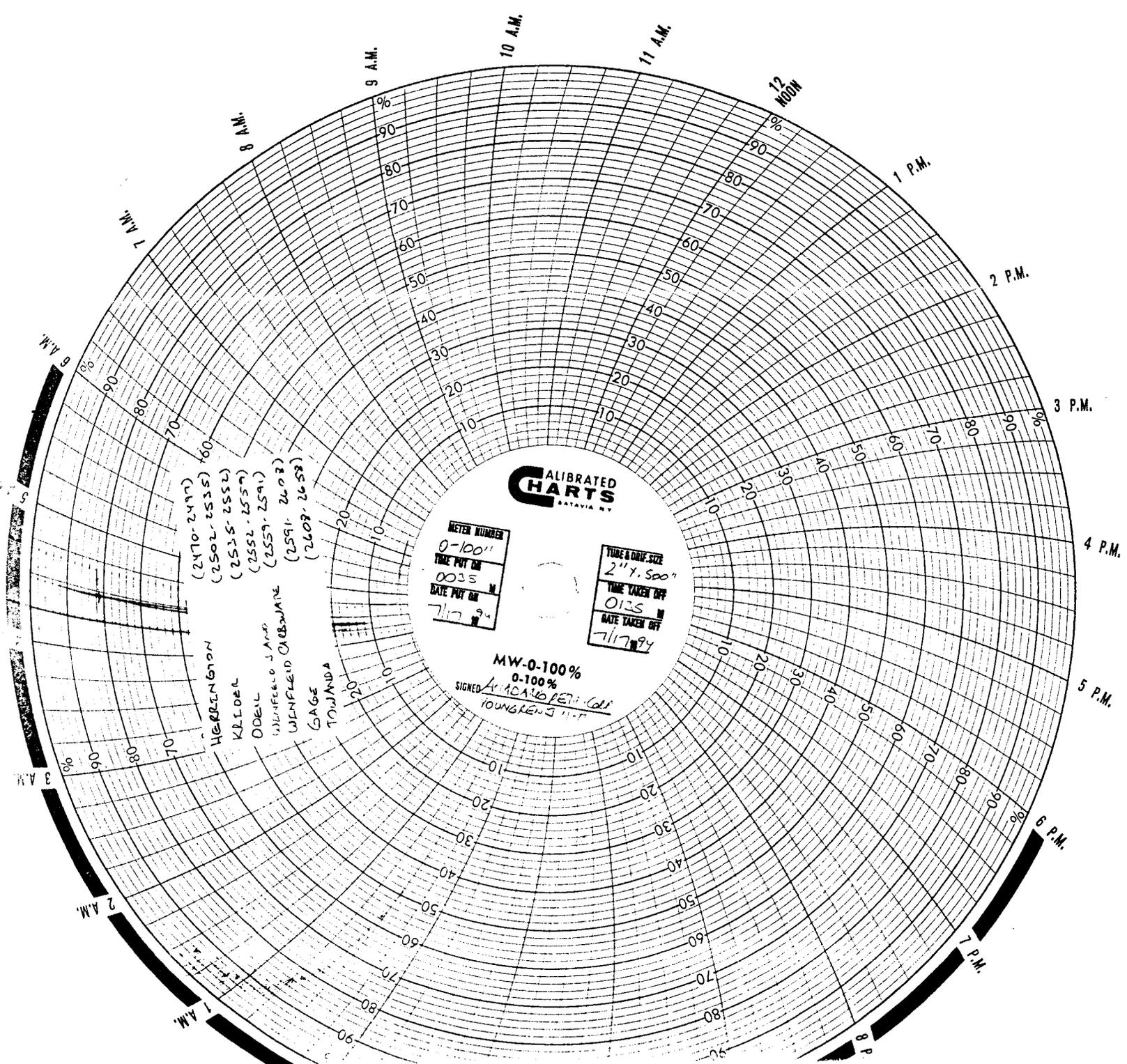
WELINGTON  
 GREEN  
 WELLS  
 WENFELD SAND  
 WAGE  
 TAJUNOA

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

METER NUMBER
0-100"
TIME PUT ON
0630
DATE PUT ON
7/17/94

TUBE & GRIP SIZE
2" x 500'
TIME TAKEN OFF
0730
DATE TAKEN OFF
7/17/94

MW-0-100%  
 0-100%  
 SIGNED ANADARKO PETR. CO.  
 JOHNSON R.



(2470-2497)  
 (2502-2535) 160  
 (2535-2552)  
 (2552-2557)  
 (2557-2591)  
 (2591-2608)  
 (2608-2658)

HERINGTON  
 KLIDEL  
 ODELL  
 WILFELDO JAMES  
 WINFIELD CARBONATE  
 GAGE  
 TOWANDA

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

METER NUMBER  
 9-100"  
 TIME PUT ON  
 0035  
 DATE PUT ON  
 7/17/84

TUBE & ORIF. SIZE  
 2" x .500"  
 TIME TAKEN OFF  
 0135  
 DATE TAKEN OFF  
 7/17/84

MW-0-100%  
 0-100%  
 SIGNED *A. ADAMO PERI*  
 TOWNSEND

**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. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
SUNDAY 7-17-94																	7-18-94
0035														REMARKS PERTINENT TO TEST DATA QUALITY			
														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 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), AND TOWANDA (2608-2658).			
0040									5.2		41.26						
0045									77		50.21						
0050									86		53.04						
0055									88		53.68						
0100									90		54.32						
0105									92		54.86						
0110									93		55.18						
0115									95		55.82						
0120									94		55.50						
0125									93		55.18						
0130									97		56.42						
0135									96		56.14						
0630														END FLOW TEST. PREPARE TO RUN DRILLPIPE.			
														RUN 1 STAND DRILLPIPE IN WELL.			
														INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), AND TOWANDA (2608-2658).			
0635									9		17.16						
0640									11		19.08						
0645									12		19.99						

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE			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.	WATER BBL.	TEST:	INITIAL ANNUAL	SPECIAL RETEST		ENDING DATE
SUNDAY 7-17-94	(CONTD)																7-18-94	
0650									12		19.99							
0655									12		19.99							
0700									12		19.99							
0705									12		19.99							
0710									12		19.99							
0715									12		19.99							
0720									12		19.99							
0725									12		19.99							
0730									12		19.99							END FLOW TEST. PREPARE TO RUN DST #9. (RERUN TEST ON TOWANDA).
0924																		SET PACKER. INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502- 2535), ODELL (2535-2552), WINFIELD SAND ((2552-2559), WINFIELD CARBONATE (2559-2591), AND GAGE (2591-2608).
0929									12		19.99							
0934									12		19.99							
0939									12		19.99							
0944									12		19.99							
0949									13		20.81							
0954									13		20.81							
0959									14		21.63							
1004									14		21.63							
1009									14		21.63							
1014									14		21.63							
1019									14		21.63							
1024									14		21.63							

Precision Well Testing

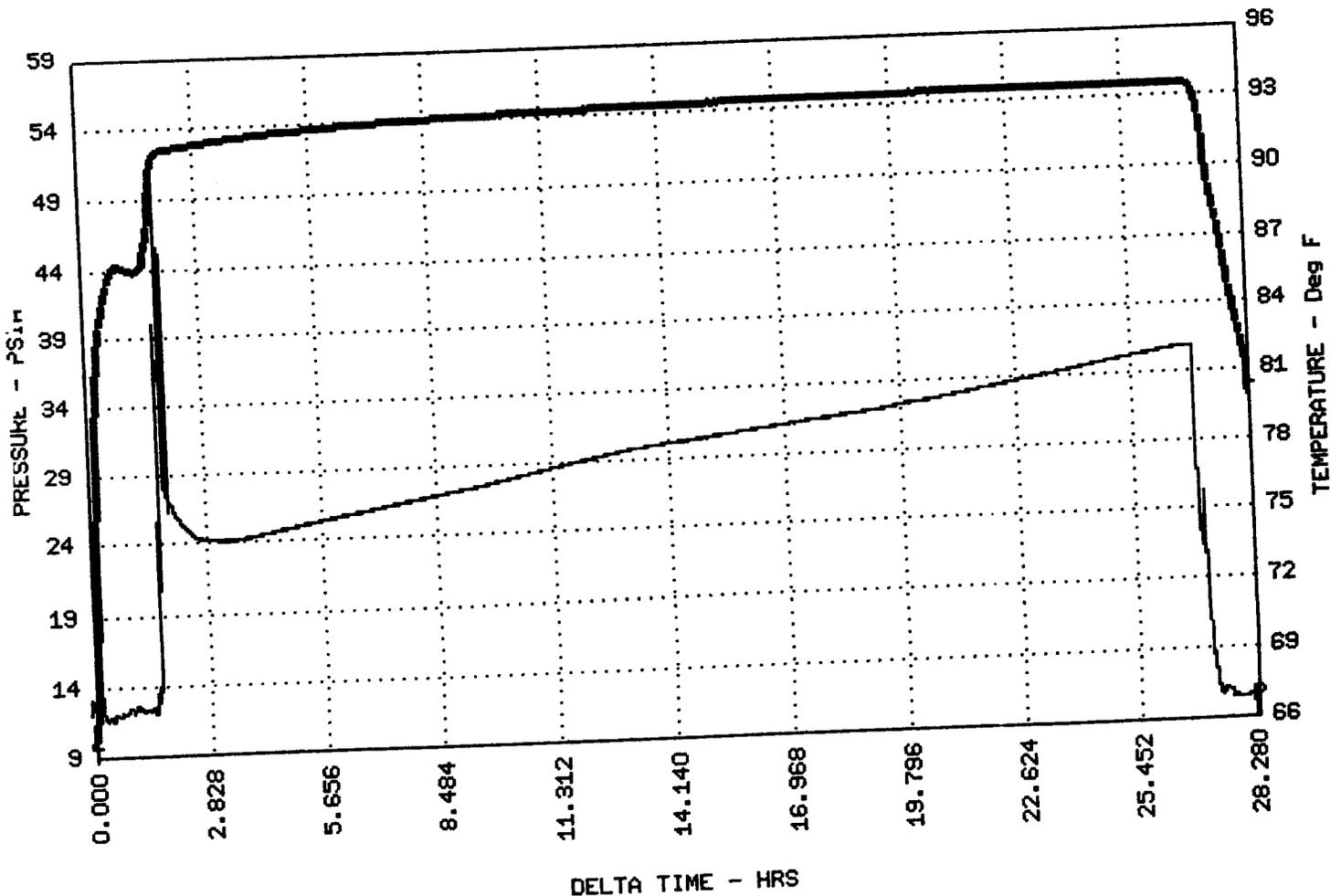
ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING _____	
		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.					ANNUAL _____
SUNDAY 7-17-94	(CONTD)										14		21.63					
1029											14		21.63					
1034											14		21.63					
1039											14		21.63					
1044											15		22.37					
1049											15		22.37					
1054											15		22.37					
1059																		
MONDAY 7-18-94											87		53.45					RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
0924																		

# 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: HOLMESVILLE (2658-2671)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2671'.

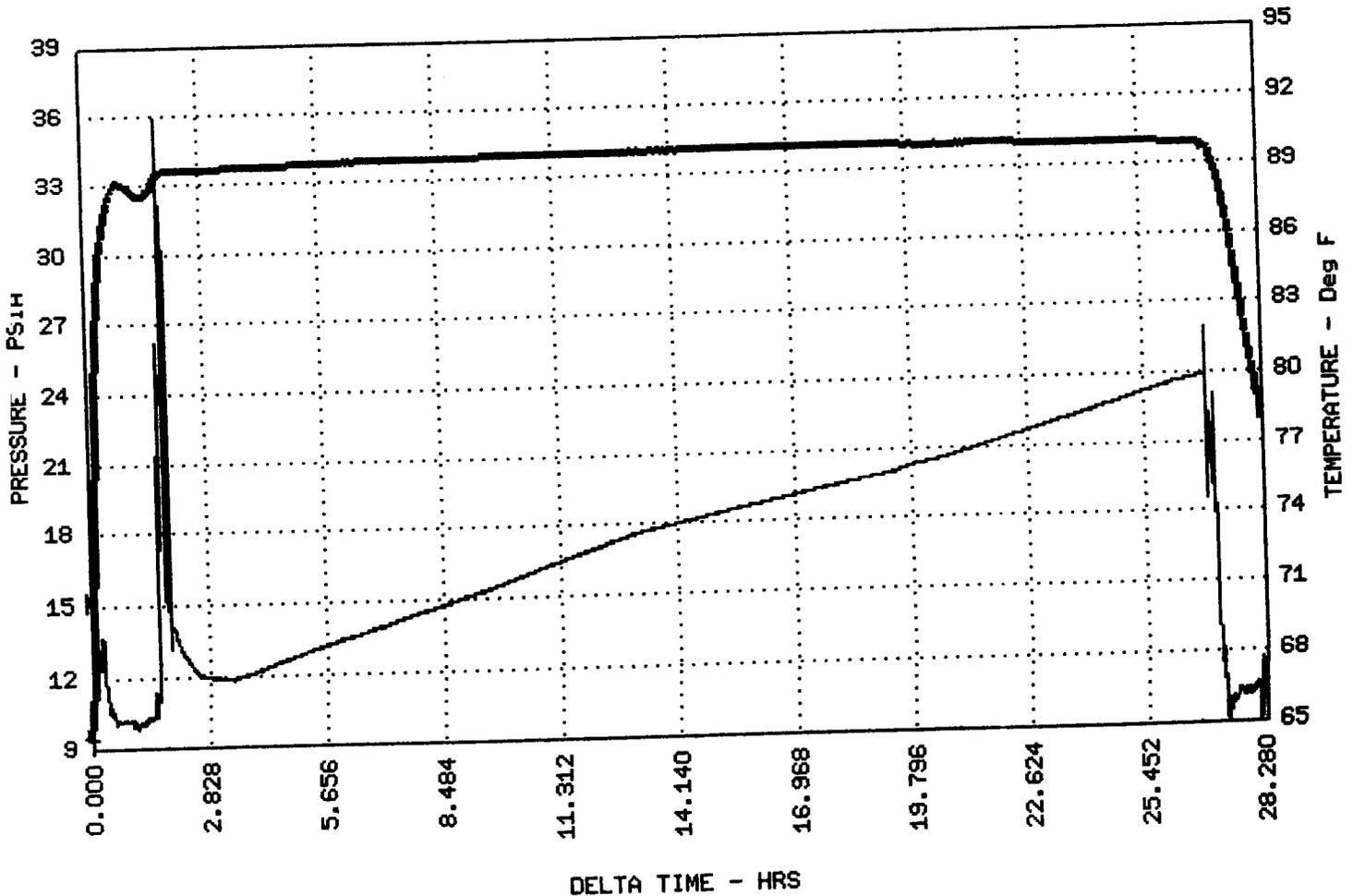
Starting date: 07/18/94  
time: 19:02:00

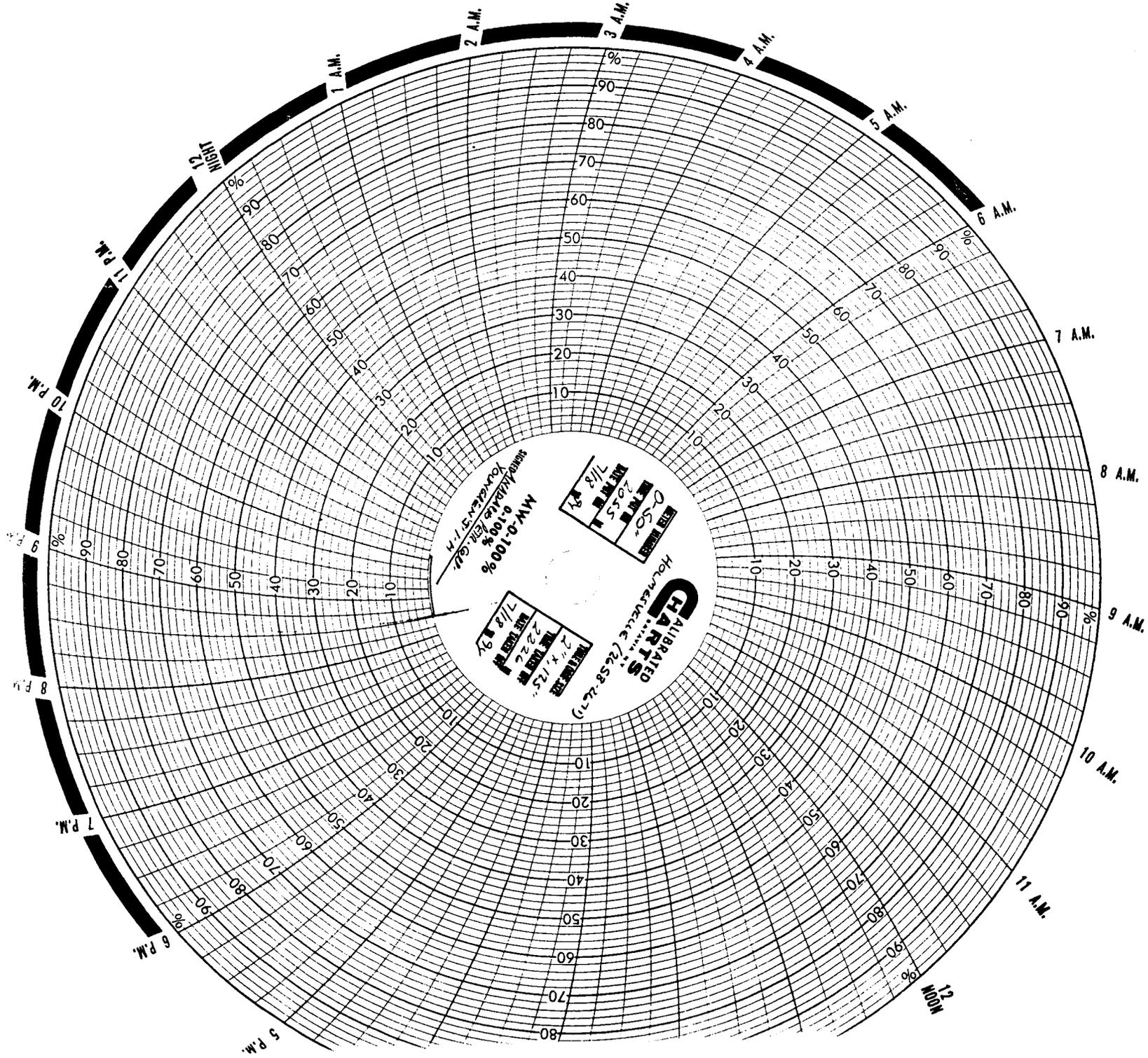


# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: HOLMESVILLE (2658-2671)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2646'.

Starting date: 07/18/94  
time: 19:02:00





WATER  
100%  
0.00%  
100%  
100%  
100%

WATER  
100%  
0.00%  
100%  
100%  
100%

**AIRBRATED CHARTS**  
Hornetville (25-58-22-7)

WATER  
100%  
0.00%  
100%  
100%  
100%

**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 HOLMESVILLE

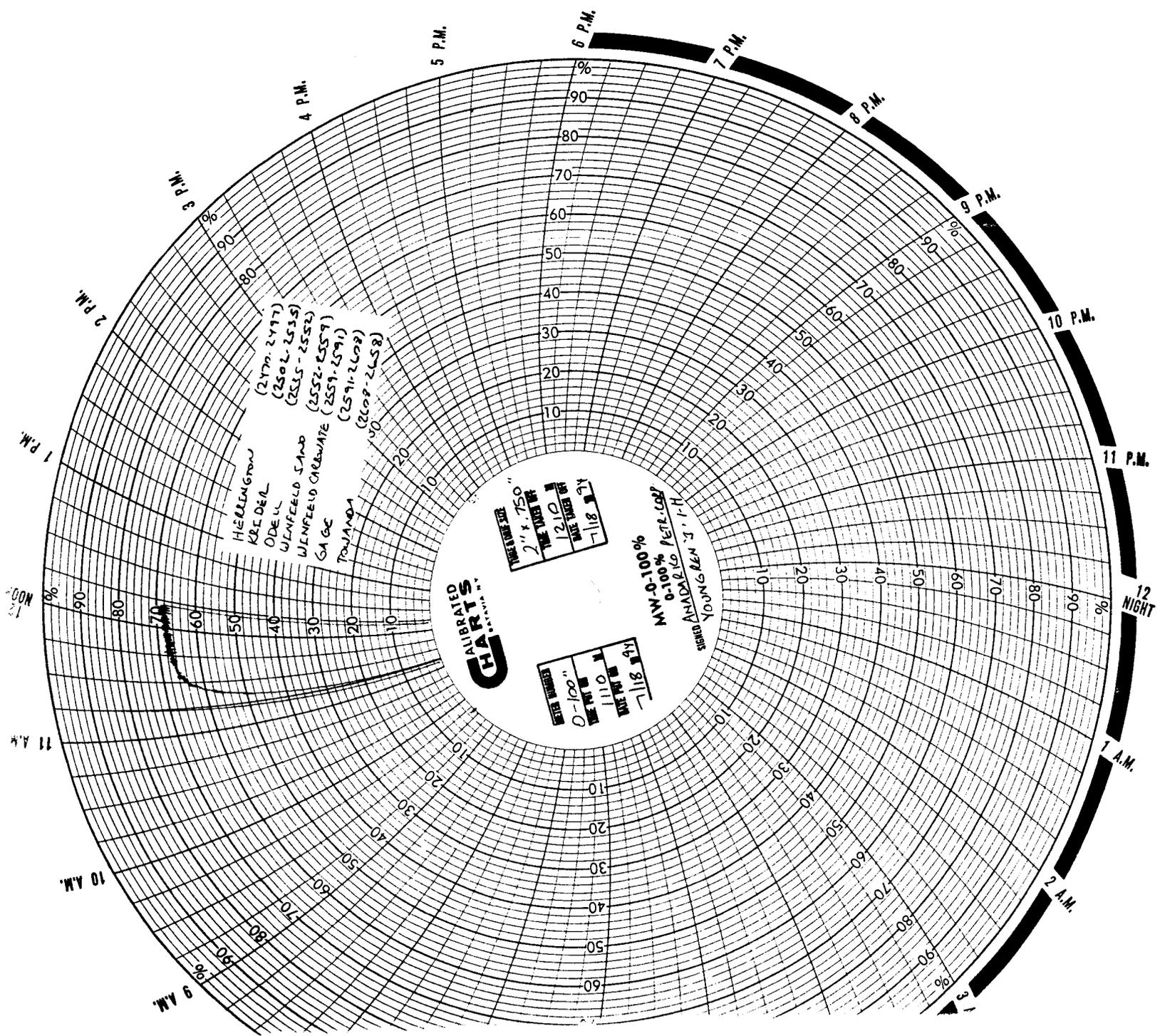
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING _____	
		CSG PSIG	$\Delta$ P CSG	TBG PSIG	$\Delta$ P TBG	BHP PSIG	$\Delta$ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.		ANNUAL _____	RETEST _____	DATE <u>7-19-94</u>	
MONDAY 7-18-94																		
1240																		START IN WELL WITH CORE BARREL.
1400																		CORE BARREL ON BOTTOM.
1425																		START CORING.
1510																		FINISH CORING HOLMESVILLE (2658-2671).
1730																		CORE BARREL ON SURFACE.
1902																		POWERED UP GRC EMS-725 INSTRUMENTS.
1915																		START IN WELL WITH INSTRUMENTS.
2052																		INSTRUMENTS IN BOTTOM.
																		DOWNHOLE SHUT-OFF AT 2626'
																		BOTTOM OF UPPER GAUGE - 2646'
																		BOTTOM OF TOP PACKER - 2656'
																		BOTTOM OF BOTTOM PACKER - 2664'
																		BOTTOM OF LOWER GAUGE - 2671'
2055																		SET PACKER.
2055																		START FLOW TEST WITH 2" O.W.T. ABD 1/8" PLATE.
2100											0		0					
2105											0		0					
2110											0		0					
2115											0		0					
2120											0		0					
2125											0		0					
2130											0		0					

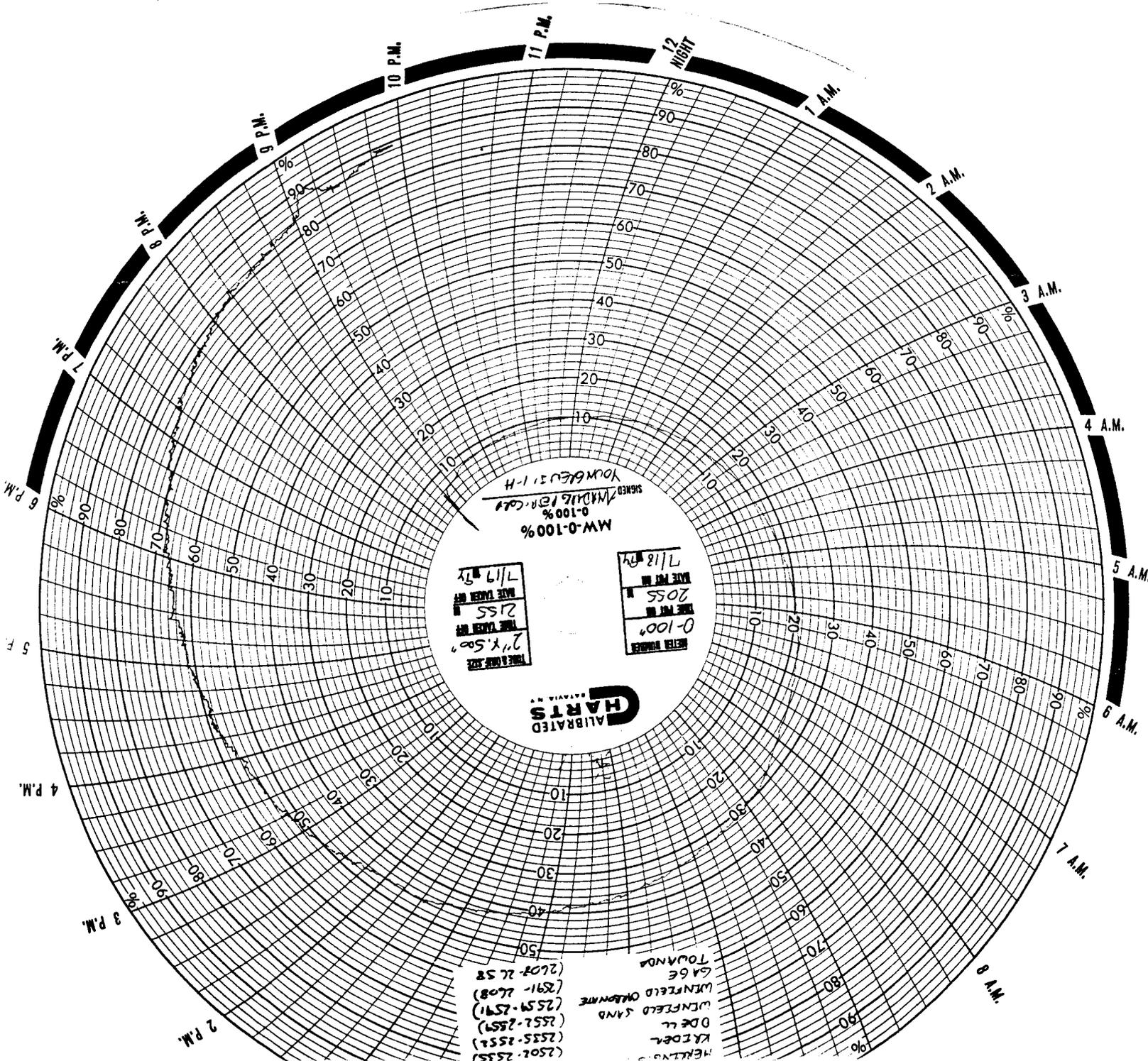
Precision Well Testing

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.				
MONDAY 7-18-94	(CONTD)																
2140									0			0					
2145									0			0					
2150									0			0					
2155									0			0					
2200									0			0					
2205									0			0					
2210									0			0					
2215									0			0					
2220									0			0					CLOSE DOWNHOLE SHUT-OFF.
2226																	
TUESDAY 7-19-94																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
2155																	INSTRUMENTS ON SURFACE.
2314																	POWERED DOWN GRC EMS-725 INSTRUMENTS.
2318																	UPPER GAUGE (76095) - YOUH01U
																	LOWER GAUGE (72289) - YOUH01L







MW-0-100%  
 0-100%  
 MADE FOR  
 SIGNED  
 YOUNG & RUBINSON

7/17/57  
 2155  
 21.50

7/18/57  
 2055  
 0-100%

**CHARTS**  
 CALIBRATED  
 MADE IN U.S.A.

- HERLINGS (2507-2535)
- KRIEDEL (2535-2552)
- ODELL (2552-2591)
- WENFELD SAND (2559-2591)
- WENFELD OILWATER (2591-2608)
- GA6E (2608-2658)
- TOWANDA (2608-2658)

**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 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	O MCF/D	COND. BBL.	WATER BBL.				
MONDAY 7-18-94																	7-19-94
1110																	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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), AND TOWANDA (2608-2658).
1115									28		68.56						
1120									49		88.87						
1125									64		104.07						
1130									65		104.52						
1135									66		104.98						
1140									66		104.98						
1145									67		105.89						
1150									67		105.89						
1155									67		105.89						
1200									68		106.81						
1205									68		106.81						
1210									68		106.81						END FLOW TEST. PREPARE TO RUN CORE BARREL.
1645																	RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), AND HOLMESVILLE (2658-2671).
1650									0		0						
1655									0		0						
1700									1		5.72						

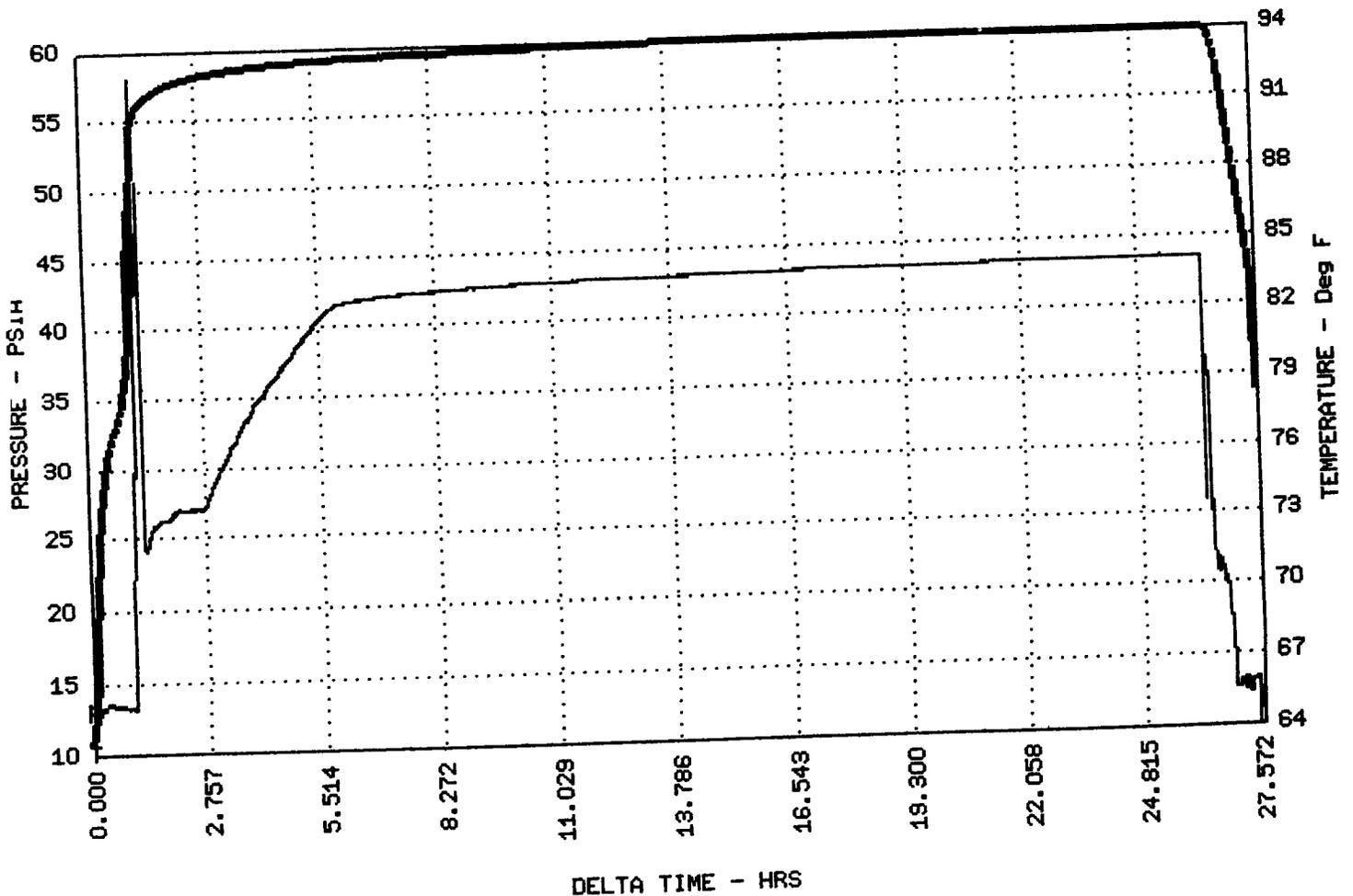




# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 72289  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: LOWER FT. RILEY (2713-2728)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2728'.

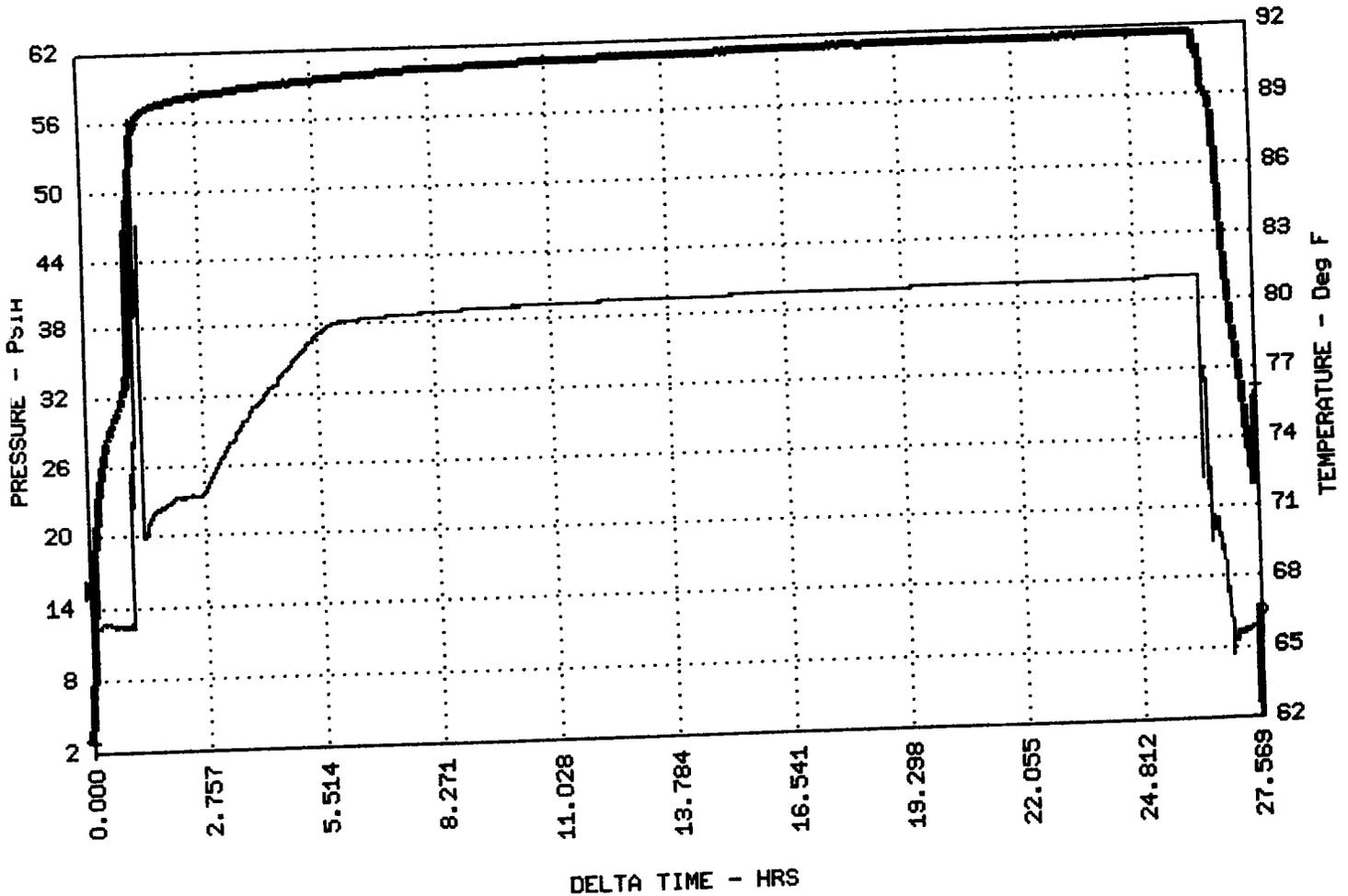
Starting date: 07/21/94  
time: 20:12:00

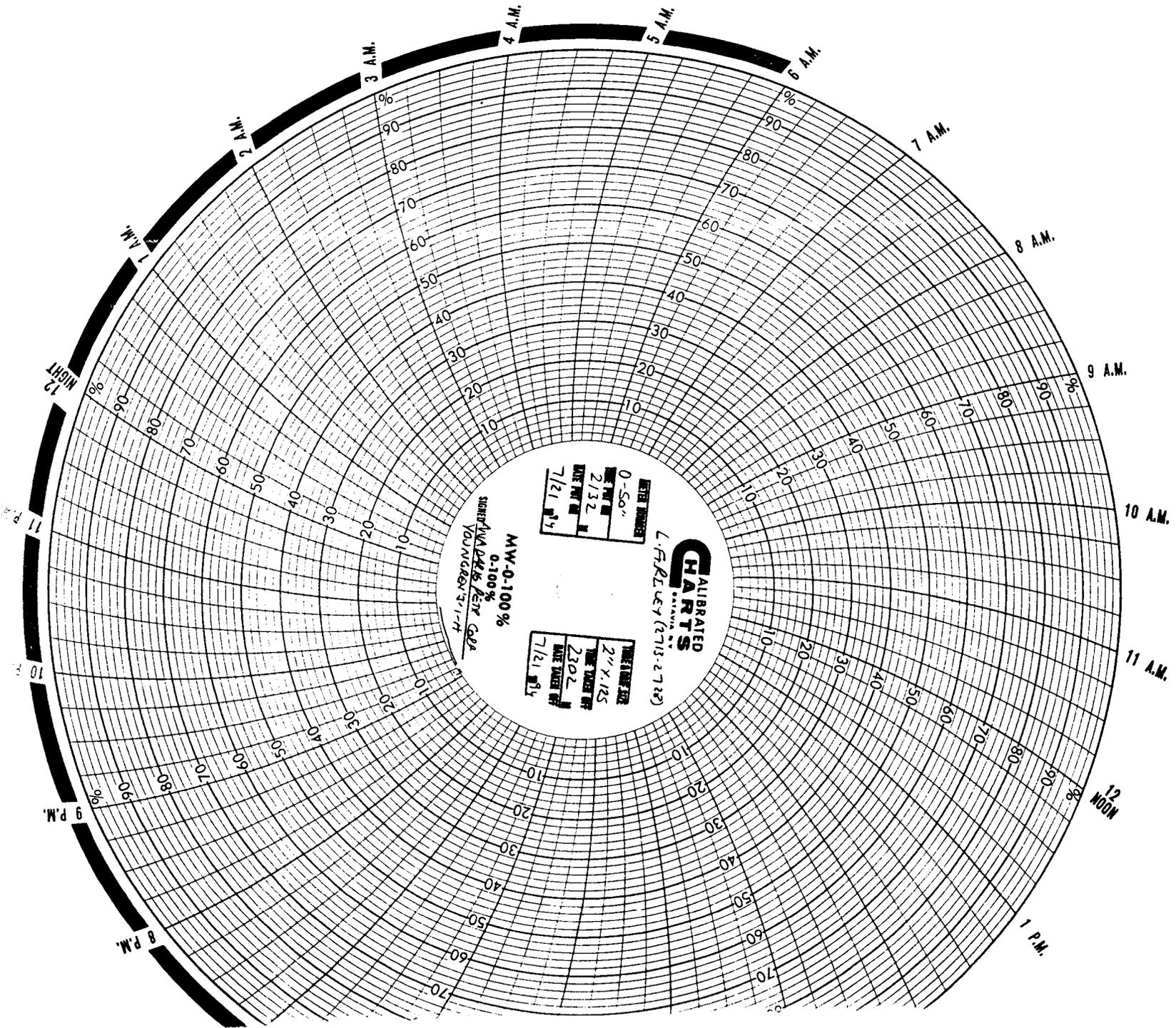


# EMR-710 WELL TEST DATA

COMPANY: PRECISION WELL TESTING  
CLIENT: ANADARKO PETROLEUM CORP.  
GAUGE NUMBER: 76095  
WELL NAME: YOUNGREN 'J'  
WELL NUMBER: 1-H  
TEST NUMBER: LOWER FT. RILEY (2713-2728)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2724'.

Starting date: 07/21/94  
time: 20:12:00





**CALIBRATED CHARTS**  
 L. F. RILEY (213-2722)

0-50"  
 THE TAPER OF  
 DATE TAPER OF  
 7/21 '84

2" x 125  
 THE TAPER OF  
 DATE TAPER OF  
 7/21 '84

MW-0-100%  
 0-100%  
 STANDARD PAPER PER GDA  
 100N020007-174

**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

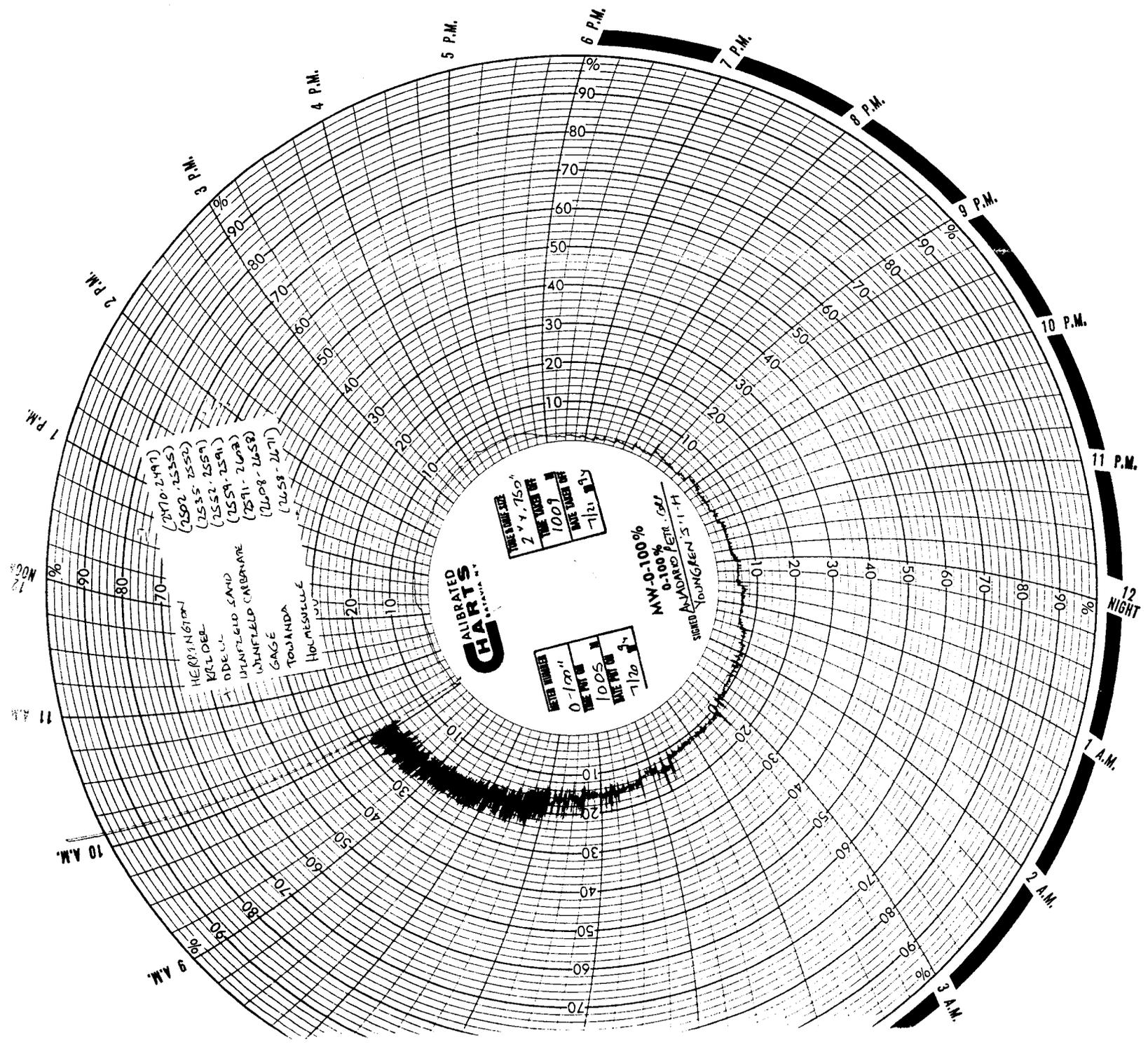
CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS. 2713 TO 2728 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR L. FT. RILEY

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA					MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____	SPECIAL _____	ENDING DATE <u>7-22-94</u>	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.					WATER BBLs.
THURSDAY 7-21-94																	
1500																	START IN WELL WITH CORE BARREL.
1600																	CORE BARREL ON BOTTOM.
1615																	START CORING.
1635																	FINISH CORING L. FT. RILEY (2713-2728).
1830																	CORE BARREL ON SURFACE.
2012																	POWERED UP GRC EMS-725 INSTRUMENTS.
2016																	START IN WELL WITH INSTRUMENTS.
2130																	INSTRUMENTS ON BOTTOM.
																	BOTTOM OF TOP PACKER - 2710'
																	BOTTOM OF BOTTOM PACKER - 2718'
																	BOTTOM OF UPPER GAUGE - 2724'
																	BOTTOM OF LOWER GAUGE - 2728'
2132																	SET PACKER.
2132																	START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE.
2137										0		0					
2142										0		0					
2147										0		0					
2152										0		0					
2157										0		0					
2202										0		0					
2207										0		0					
2212										0		0					

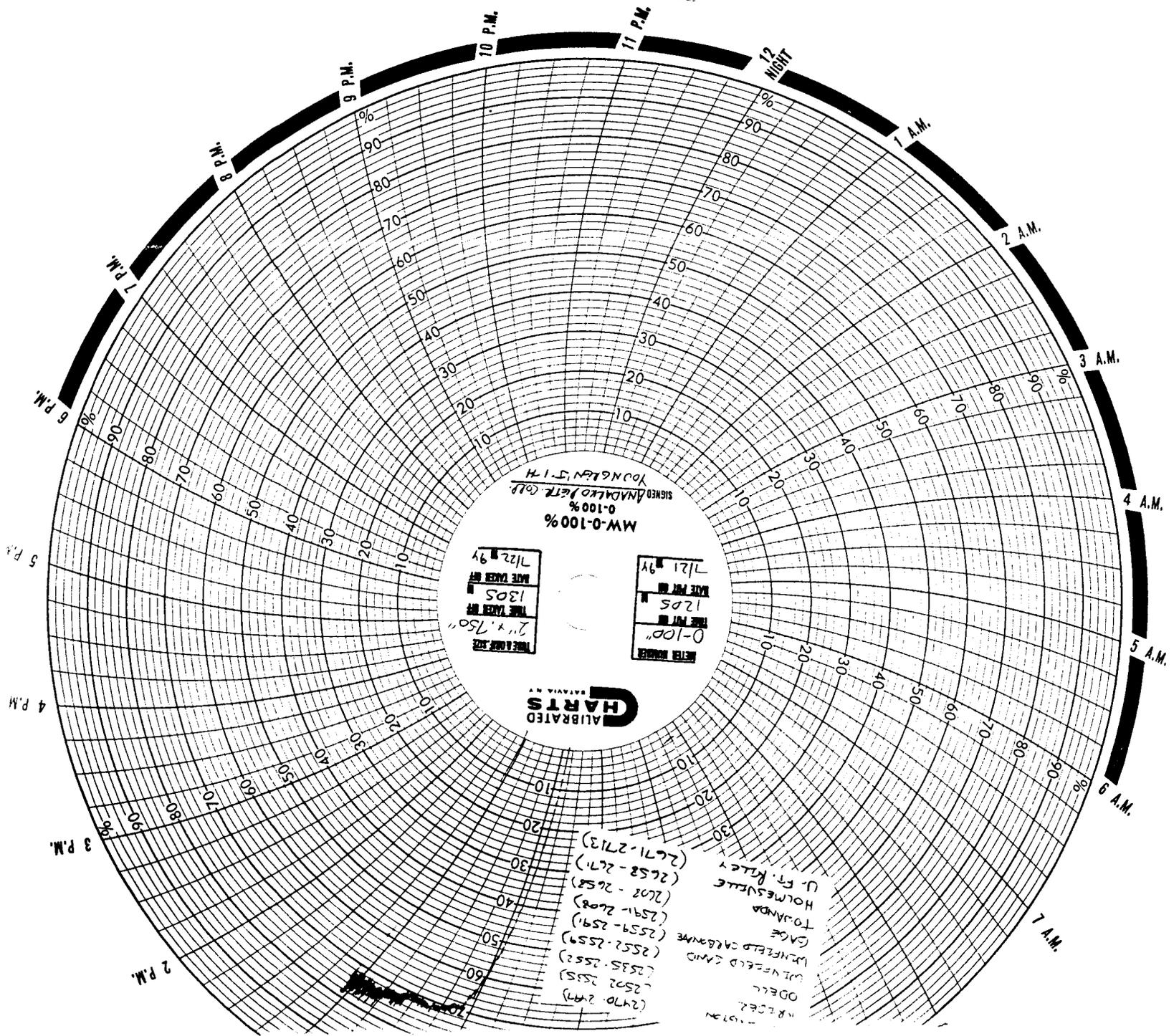
**Precision Well Testing**

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE				
		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:	INITIAL	SPECIAL	ENDING	
THURSDAY 7-21-94	(CONTD)														ANNUAL		RETEST	DATE 7-22-94
2217									0		0							
2222									0		0							
2227									0		0							
2232									0		0							
2237									0		0							
2242									0		0							
2247									0		0							
2252									0		0							
2257									0		0							
2302									0		0							CLOSE DOWNHOLE SHUT-OFF.
FRIDAY 7-22-94																		
2230																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
2342																		INSTRUMENTS ON SURFACE.
2347																		POWERED DOWN GRC EMS-725 INSTRUMENTS.
																		UPPER GAUGE (76095) - YOULFIU
																		LOWER GAUGE (72289) - YOULFIL







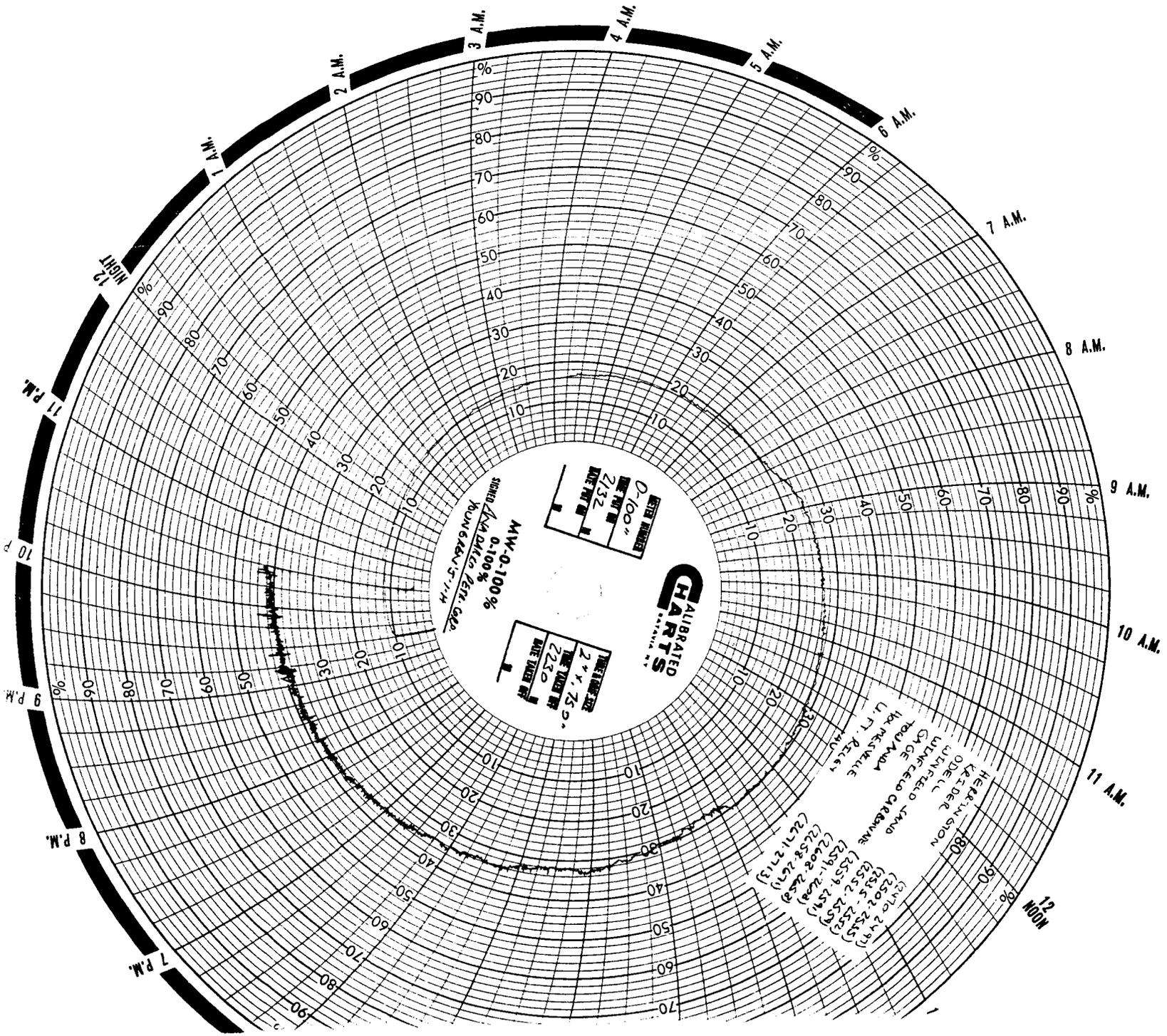
MW-0-100%  
 0-100%  
 SIGNED ANDALLO PET. CO.  
 YOUNGLEN 5-14

TIME PER MIN	7121 9Y
DATE TAKEN	1305
TIME TAKEN	21 * 750
TIME TAKEN	7122 9Y

TIME PER MIN	7121 9Y
DATE TAKEN	1205
TIME TAKEN	0-100
TIME TAKEN	7121 9Y

**CHARTS**  
 CALIBRATED  
 SAVANNA, GA

(2470-247)  
 (2502-2535)  
 (2535-2552)  
 (2552-2559)  
 (2559-2591)  
 (2591-2608)  
 (2608-2652)  
 (2652-2671)  
 (2671-2713)  
 ODELL  
 WILFELD SAND  
 WILFELD CARBONATE  
 GAGE  
 TOWNDA  
 HOLMESVILLE  
 U. FT. KELLY



**ALIBRATED CHARTS**  
 MADE IN U.S.A.  
 MODEL NO. 2132  
 DATE MADE IN U.S.A. 1/14  
 MODEL NO. 2250  
 DATE MADE IN U.S.A. 1/14  
 SERIAL NO. 0-100%  
 MADE IN U.S.A.  
 MADE IN U.S.A.

HELEN W. STANLEY  
 1000 W. 10th St.  
 ODELL  
 WINDMILL CEMENT  
 GAGE  
 YOU MAY  
 U.S. PATENT  
 (302-2477)  
 (302-2478)  
 (302-2479)  
 (302-2480)  
 (302-2481)  
 (302-2482)  
 (302-2483)  
 (302-2484)  
 (302-2485)  
 (302-2486)  
 (302-2487)  
 (302-2488)  
 (302-2489)  
 (302-2490)

**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	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.				
THURSDAY 7-21-94																7-22-94
1205																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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), AND U. FT. RILEY (2671-2713)).
1210									56		96.76					
1215									67		105.89					
1220									69		107.72					
1225									71		109.09					
1230									72		109.54					
1235									72		109.54					
1240									73		110.46					
1245									73		110.46					
1250									74		111.37					
1255									75		111.83					
1300									75		111.83					
1305									75		111.83					END FLOW TEST. PREPARE TO RUN LOG.
1855																RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 3/4" PIPE DIRECTLY OFF CASING. (COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), U. FT. RILEY (2671-2713), AND L. FT. RILEY (2713-2728)).
1900									6		31.68					

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

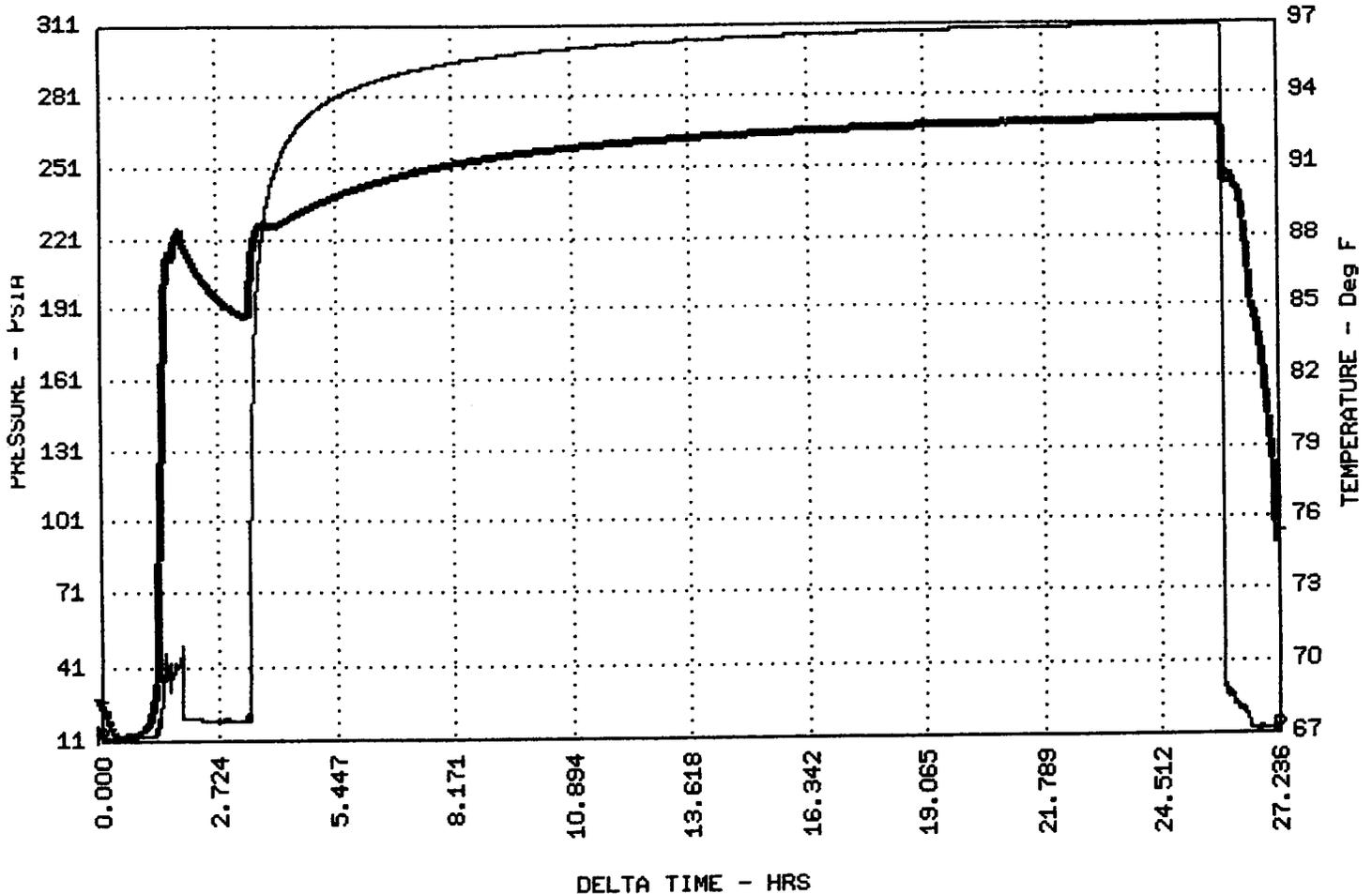
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
THURSDAY 7-21-94	(CONT'D)																7-22-94
1905									8			36.51					
1910									9			38.79					
1915									10			40.89					
1920									10			40.89					
1925									10			40.89					
1930									10			40.89					
1935									10			40.89					
1940									10			40.89					
1945									10			40.89					
1950									11			43.09					
1955									11			43.09					
2132																	END FLOW TEST. PREPARE TO RUN DST #12 (L. FT. RILEY). SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING. (COMINGLED GAS FOM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2602), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), AND U. FT. RILEY (2671-2713).
2137									11			43.09					
2142									11			43.09					
2147									11			43.09					
2152									11			43.09					
2157									11			43.09					
2202									11			43.09					
2207									11			43.09					
2212									11			43.09					
2217									11			43.09					
2222									11			43.09					



# 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: UPPER FT. RILEY (2671-2713)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2689'.

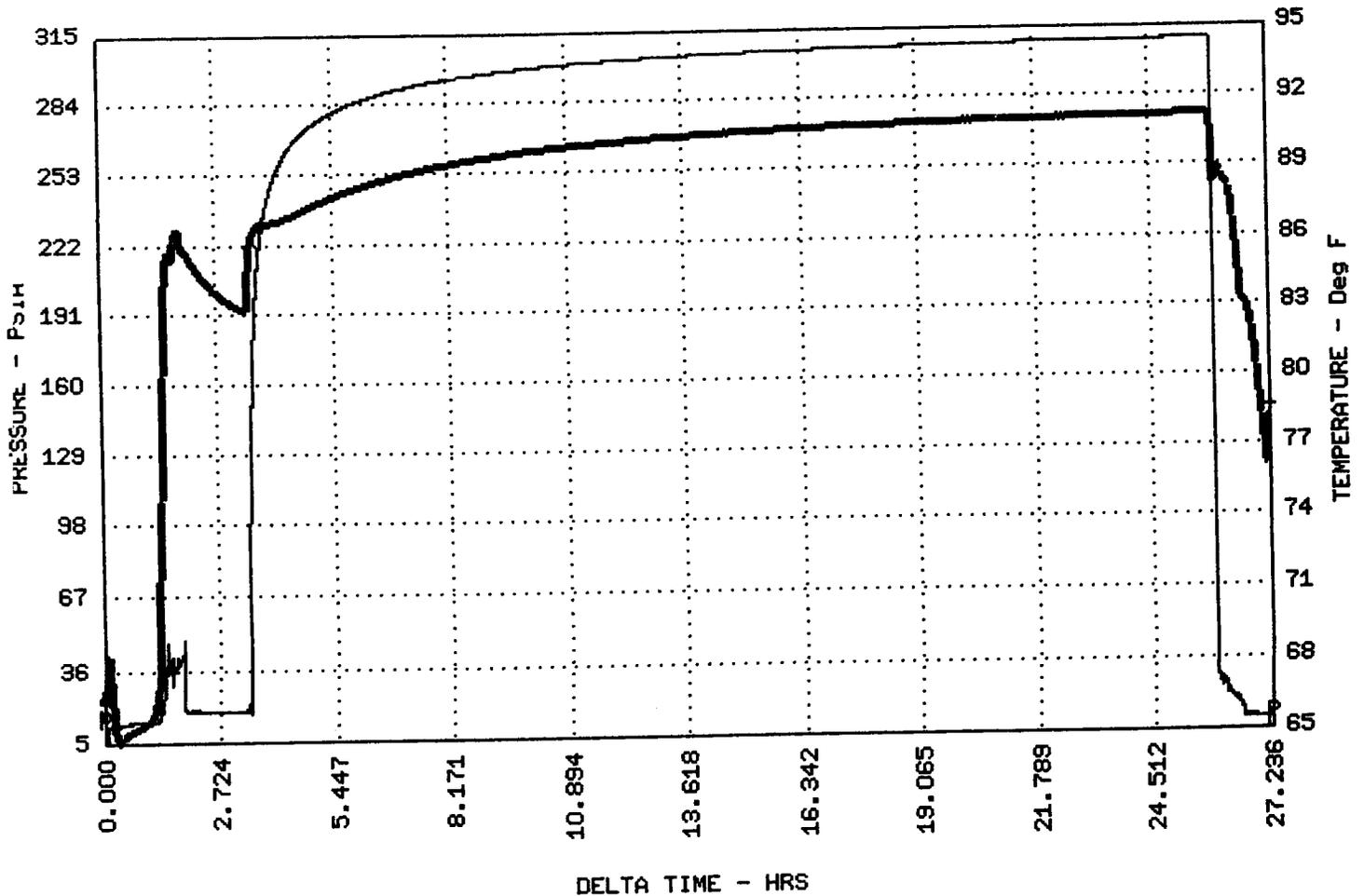
Starting date: 07/20/94  
time: 08:12:00



# 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: UPPER FT. RILEY (2671-2713)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2685'

Starting date: 07/20/94  
time: 08:12:00



## 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: 940354  
 Sample From: Youngren 'J' 1-H DST 11  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/21/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Upper  
 Ft Riley

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	12.618
Carbon Dioxide	CO2:	0.105
Methane	C1:	74.672
Ethane	C2:	6.810
Propane	C3:	3.892
Iso Butane	iC4:	0.434
Normal Butane	nC4:	0.945
Iso Pentane	iC5:	0.126
Normal Pentane	nC5:	0.186
Hexanes Plus	C6+:	0.212
TOTAL:		100.000
Z Fact:		0.9975
SP.GR.:		0.7113
BTU (SAT):		1027.7 @ 14.73 psia
BTU (DRY):		1045.9 @ 14.73 psia
OCTANE RATING:		109.4

COMMENTS: Sample entered under vaccum  
 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

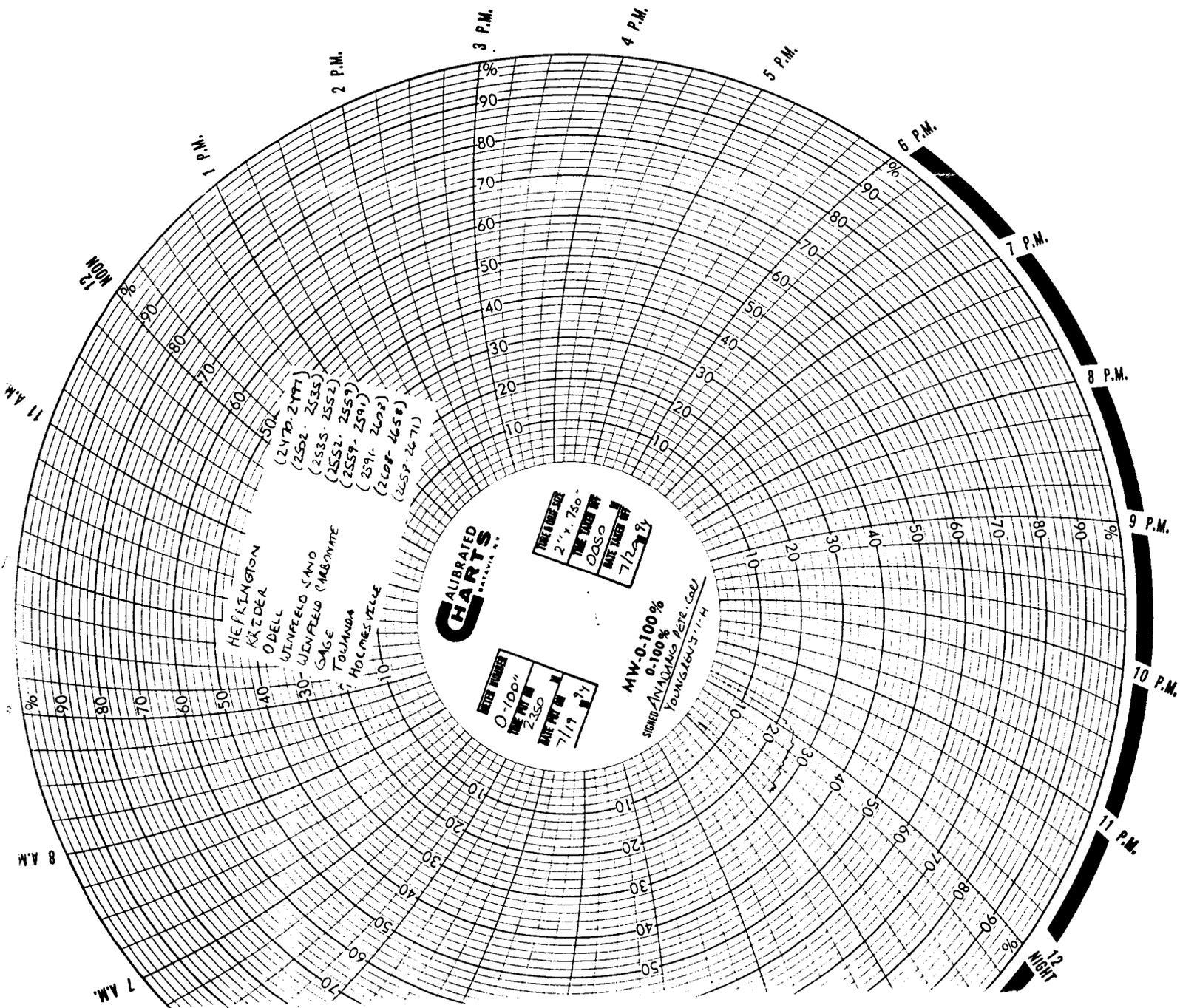
CSG 8 5/8 WT 24.0 SET 2435 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS. 2671 TO 2713 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7113 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR U. FT. RILEY

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE TEST:	INITIAL _____ ANNUAL _____	SPECIAL _____ RETEST _____	ENDING DATE <u>7-21-94</u>	
		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.
WEDNESDAY 7-20-94																	
0130																	START IN WELL WITH CORE BARREL.
0245																	CORE BARREL ON BOTTOM.
0310																	START CORING.
0400																	FINISH CORING U. FT. RILEY (2671-2713).
0615																	CORE BARREL ON SURFACE.
0812																	POWERED UP GRC EMS-725 INSTRUMENTS.
0836																	START IN WELL WITH INSTRUMENTS.
1002																	INSTRUMENTS ON BOTTOM.
																	BOTTOM OF TOP PACKER - 2670'
																	BOTTOM OF BOTTOM PACKER - 2678'
																	BOTTOM OF UPPER GAUGE - 2685'
																	BOTTOM OF LOWER GAUGE - 2689'
1005																	SET PACKER.
1005																	(GAS VOLUMES CORRECTED TO A .7113 GRAVITY).
																	START FLOW PERIOD WITH 2" O.W.T. AND 1/2" PLATE.
1010									39			35.91					
1015									33			33.06					GAS TO SURFACE
1020									30			31.50					
1025									28			30.49					
1030									28			30.49					
1035									28			30.49					
1040									28			30.49					
1045									28			30.49					

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.					ANNUAL _____
WEDNESDAY 7-20-94 (CONTD)																		
1050									27.5			30.19						
1055									27.5			30.19						
1100									27.5			30.19						
1105									27.5			30.19						
1110									27			29.89						
1115									27			29.89						
1120									27			29.89						
1125									27			29.89						
1130									27			29.89						CLOSE DOWNHOLE SHUT-OFF.
1138																		
THURSDAY 7-21-94																		
1009																		RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
1123																		INSTRUMENTS ON SURFACE.
1128																		POWERED DOWN GRC EMS-725 INSTRUMENTS.
																		UPPER GAUGE (76095) - YOUUF1U
																		LOWER GAUGE (72289) - YOUUF1L



11 AM

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.

9 P.M.

10 P.M.

11 P.M.

12 NIGHT

8 AM

7 AM

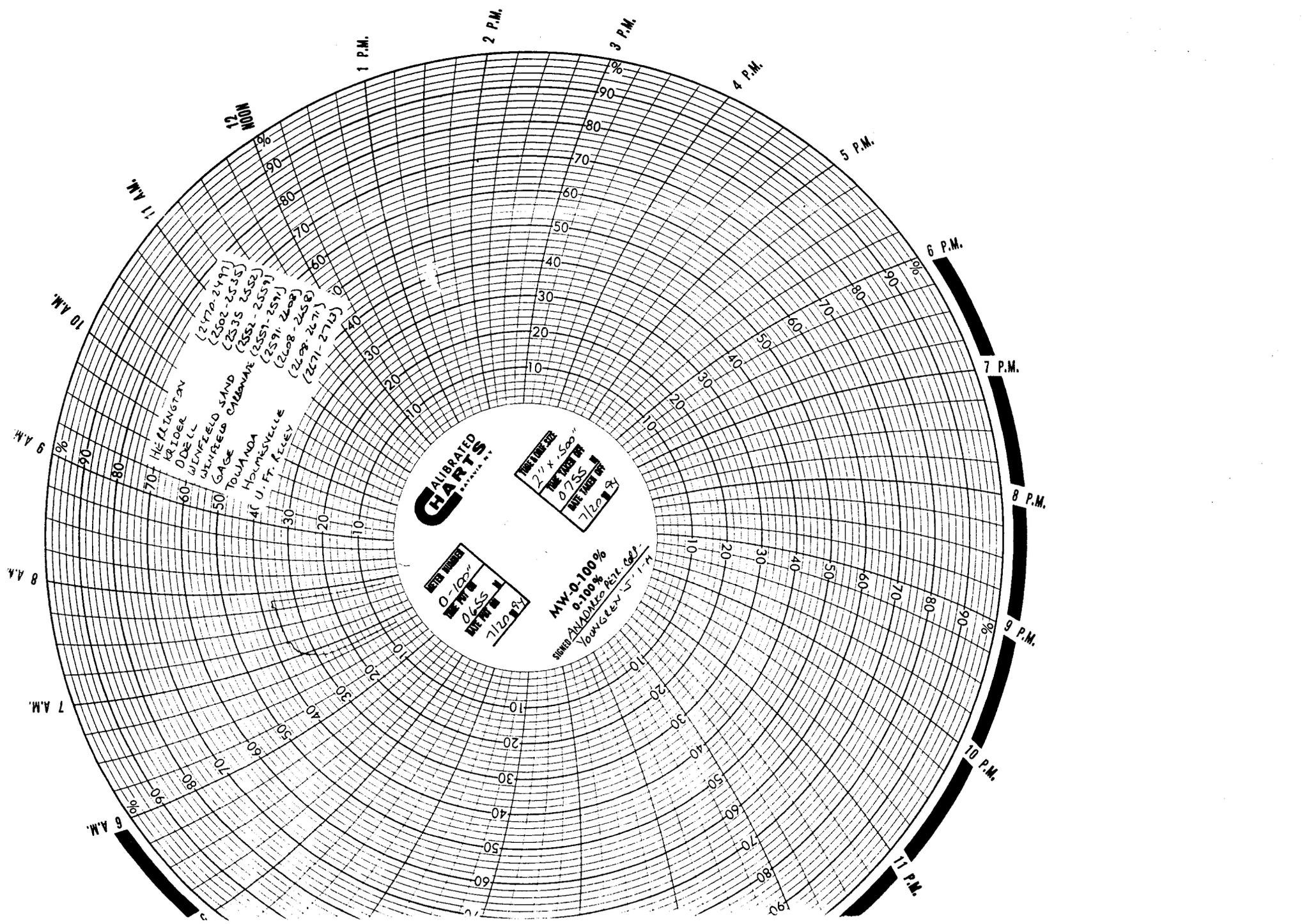
HEFFINGTON  
 KAZDER  
 ODELL  
 WINFELD SANDO  
 WINFELD (MSOMME)  
 SAGE  
 TOWANDA  
 HOLMESVILLE  
 (2470-2497)  
 (2502-2535)  
 (2555-2552)  
 (2552-2557)  
 (2559-2591)  
 (2591-2602)  
 (2602-2658)  
 (2658-2671)

**CALIBRATED CHARTS**  
 • • • • •  
 • • • • •

THIS CHART  
 0-100"  
 2-350  
 7/14 7/1

THIS CHART  
 2" x 750  
 0-250  
 7/22 7/1

MW-0-100%  
 0-100%  
 SIGNED/MADE IN PETR. CO. U.S.A.  
 YOUNG & RUBICAM



HEALINGTON  
 RIDER  
 IDELL  
 WINFIELD SAND  
 WIRELESS CALDWELL  
 GAGE  
 TOLUADA  
 HOLMESVILLE  
 AT U. F. KEELY  
 (2470-2497)  
 (2302-2535)  
 (2535-2552)  
 (2552-2571)  
 (2571-2591)  
 (2591-2608)  
 (2608-2658)  
 (2658-2671)  
 (2671-2713)

MADE IN U.S.A.  
 0-100%  
 MADE IN U.S.A.

MADE IN U.S.A.  
 0-100%  
 MADE IN U.S.A.

MADE IN U.S.A.  
 0-100%  
 MADE IN U.S.A.

**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. BBL.	WATER BBL.	TEST: ANNUAL _____ RETEST _____	DATE <u>7-21-94</u>
REMARKS PERTINENT TO TEST DATA QUALITY															
TUESDAY 7-19-94															ALL GAS VOLUMES CORRECTED TO A .720 GRAVITY.
2350															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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), AND HOLMESVILLE (2658-2671)).
2355									24		63.44				
WEDNESDAY 7-20-94															
0000									25		64.77				
0005									25		64.77				
0010									26		66.09				
0015									26		66.09				
0020									26		66.09				
0025									26		66.09				
0030									26		66.09				
0035									27		67.32				
0040									27		67.32				
045									28		68.56				
0050									28		68.56				END FLOW TEST. PREPARE TO RUN CORE BARREL.
0655															RUN 1 STAND DRILLPIPE IN WELL. INSTALL 2" VALVE IN DRILLPIPE AT SURFACE (CLOSED). INSTALL 2" O.W.T. WITH 1/2" PLATE DIRECTLY OFF CASING.
															(COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), AND U. P. RELEY

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

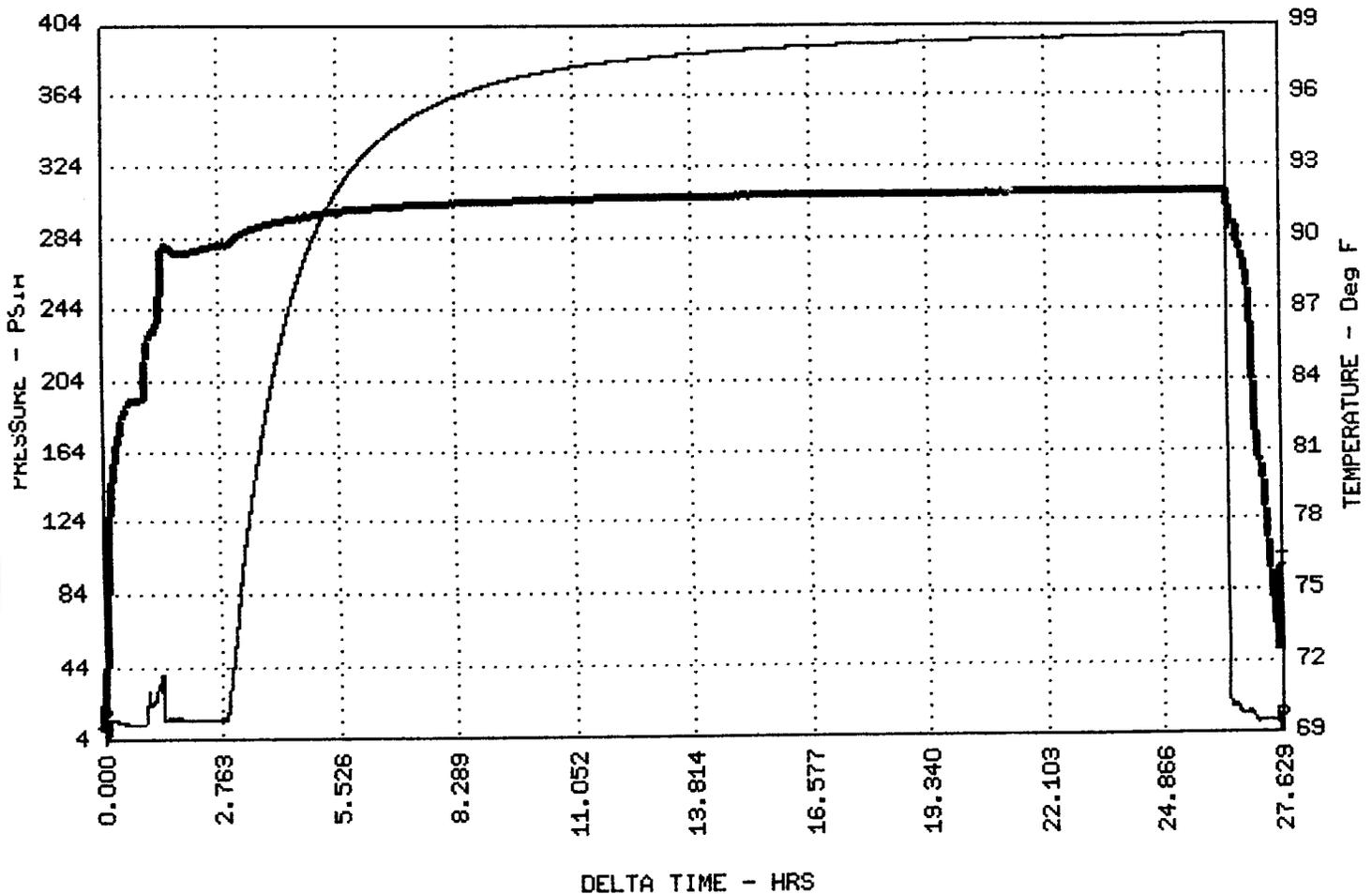
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
WEDNESDAY 7-20-94	(CONT'D)																7-21-94
0655																	(2671-2713).
0700									28		30.31						
0705									32		32.41						
0710									34		33.32						
0715									35		33.82						
0720									36		34.32						
0725									36		34.32						
0730									36		34.32						
0735									36		34.32						
0740									36		34.32						
0745									36		34.32						
0750									37		34.78						
0755									37		34.78						END FLOW TEST. PREPARE TO RUN DST # 11 (U. FT. RILEY)
1005																	SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY
																	OFF CASING.
																	(COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), AND HOLMESVILLE (2658-2671)).
1010									1		12.96						
1015									1		12.96						
1020									1		12.96						
1025									1		12.96						
1030									1		12.96						
1035									1		12.96						
1040									1		12.96						
1045									1		12.96						
1050									1		12.96						



# 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: FLORENCE (2728-2746)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2741'.

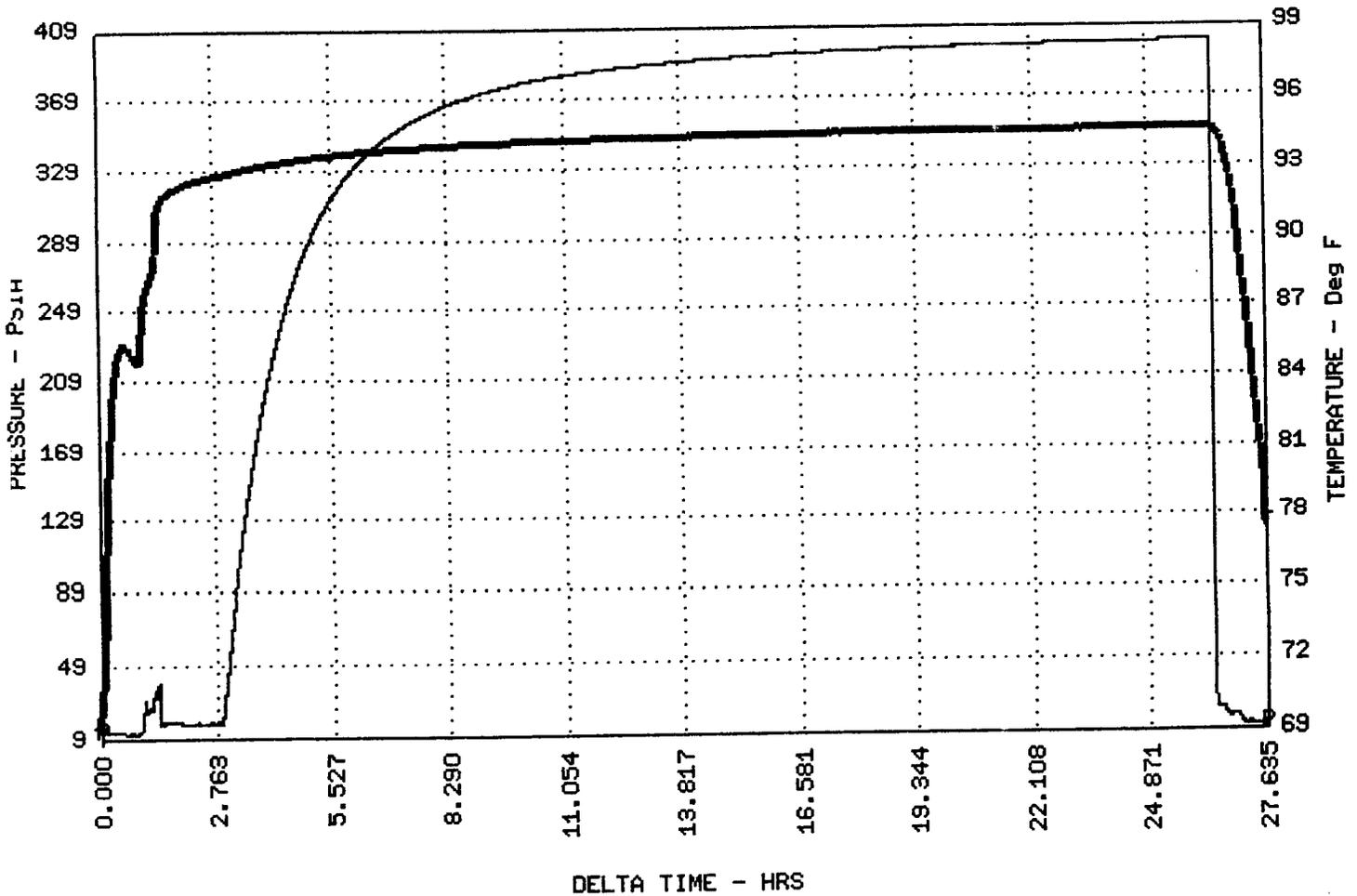
Starting date: 07/23/94  
time: 12:05:00



# 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: FLORENCE (2728-2746)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2745'.

Starting date: 07/23/94  
time: 12:05:00



NATURAL GAS ANALYSIS REPORT

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

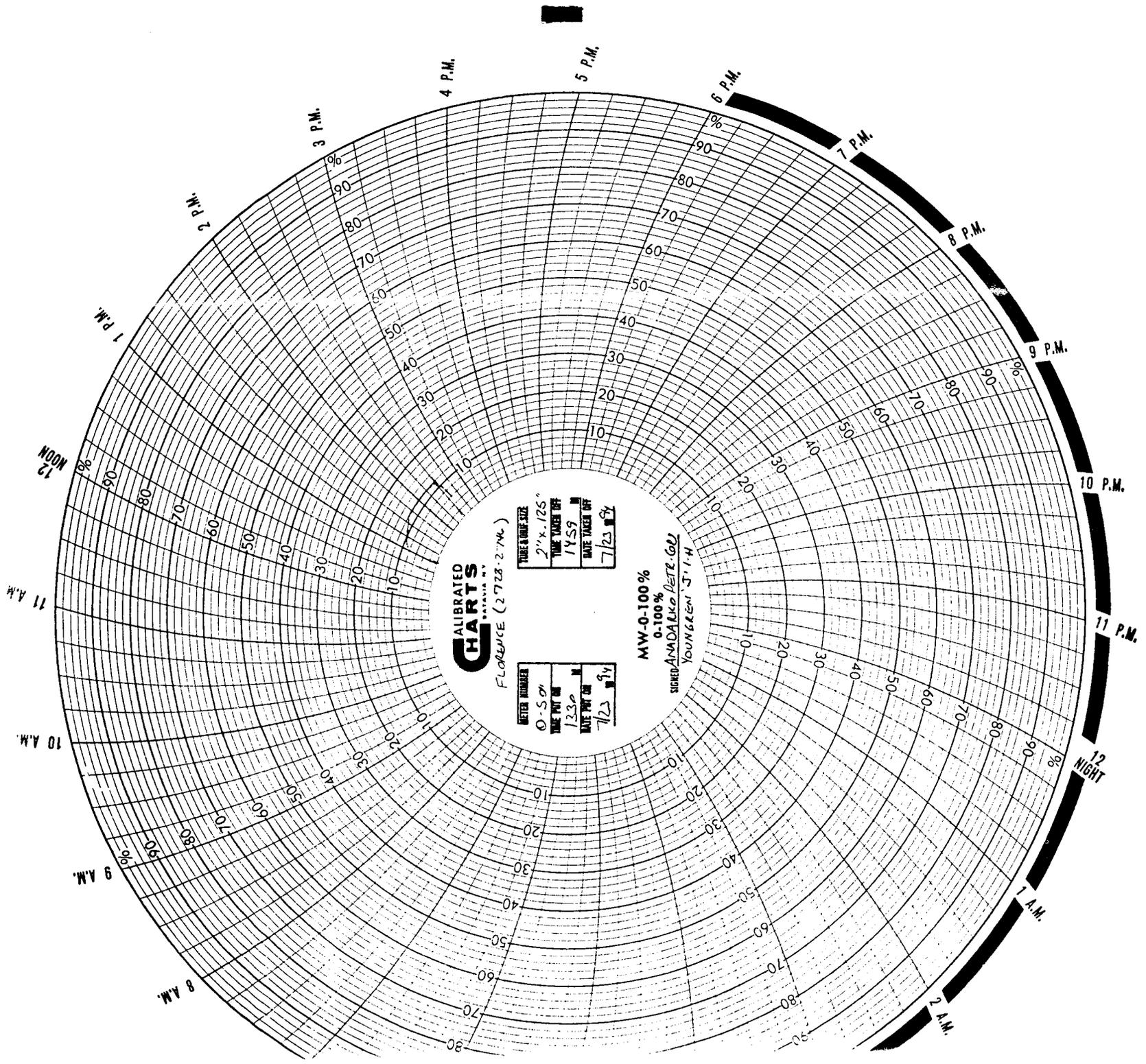
Analyzed by:  
 Caraway Analytical, L.L.C  
 728 North Roosevelt  
 Liberal, Kansas 67901  
 Phone: 316-324-5389  
 Fax: 316-626-7108

Lab Number: 940357  
 Sample From: Youngren 'J' 1-H DST 13  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/25/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Florence

	Mole %	GPM
Helium	He: 0.597	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 12.484	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 73.196	0.000
Ethane	C2: 7.029	1.880
Propane	C3: 4.281	1.180
Iso Butane	iC4: 0.527	0.172
Normal Butane	nC4: 1.246	0.393
Iso Pentane	iC5: 0.209	0.076
Normal Pentane	nC5: 0.222	0.080
Hexanes Plus	C6+: 0.209	0.091
	TOTAL: 100.000	3.873
	Z Fact: 0.9974	
	SP.GR.: 0.7201	
	BTU (SAT): 1043.8 @ 14.73 psia	
	BTU (DRY): 1062.3 @ 14.73 psia	
	OCTANE RATING: 108.5	

COMMENTS:





**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

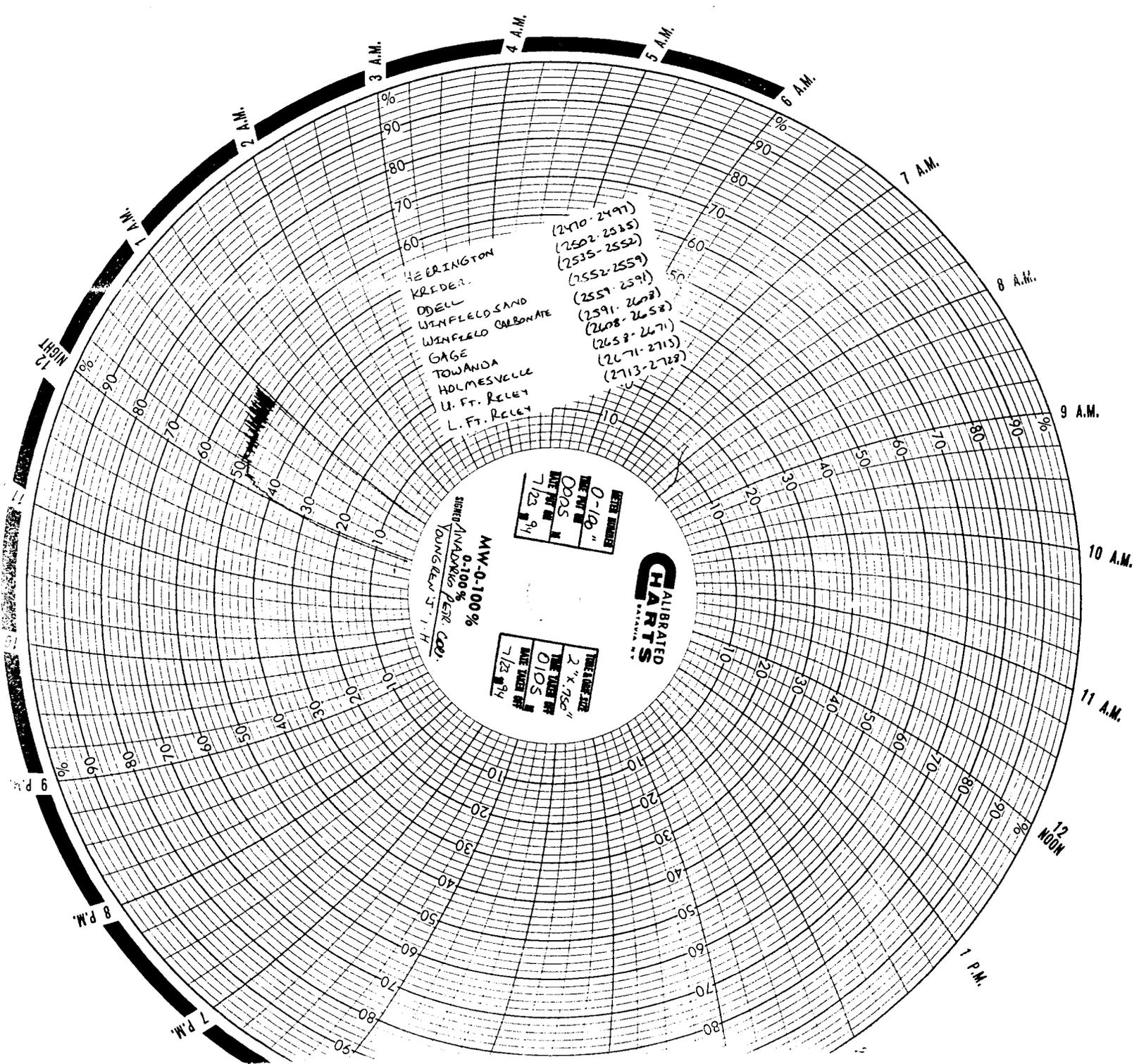
CSG \_\_\_\_\_ WT \_\_\_\_\_ SET @ \_\_\_\_\_ TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET @ \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2728 TO 2746 \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG \_\_\_\_\_ API \_\_\_\_\_ @ \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR FLORENCE

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
SATURDAY 7-23-94																	7-24-94
0135																	START IN WELL WITH CORE BARREL.
0300																	CORE BARREL ON BOTTOM.
0405																	START CORING.
0425																	CORING FLORENCE (2728-2732). CORE BARREL JAMMED.
0445																	START OUT OF WELL WITH CORE BARREL.
0610																	CORE BARREL ON SURFACE.
0630																	START IN WELL WITH CORE BARREL.
0750																	CORE BARREL ON BOTTOM.
0810																	START CORING.
0835																	FINISH CORING FLORENCE (2732-2746).
0915																	START OUT OF WELL WITH CORE BARREL.
1030																	CORE BARREL ON SURFACE.
1205																	POWERED UP GRC EMS-725 INSTRUMENTS.
1212																	START IN WELL WITH INSTRUMENTS.
1328																	INSTRUMENTS ON BOTTOM.
																	BOTTOM OF TOP PACKER - 2726'
																	BOTTOM OF BOTTOM PACKER - 2734'
																	BOTTOM OF UPPER GAUGE - 2741'
																	BOTTOM OF LOWER GAUGE - 2745'
1330																	SET PACKER.
1330																	GAS VOLUMES CORRECTED TO A .7201 GRAVITY.
1335									4.5				1.02				

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	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
SATURDAY 7-23-94	(CONTD)																7-24-94
1340									4.5			1.02					
1345									5.0			1.08					
1350									5.0			1.08					
1355									5.5			1.13					
1400									5.5			1.13					
1405									6.0			1.18					
1410									6.0			1.18					
1415									6.0			1.18					
1420									6.0			1.18					
1425									6.0			1.18					
1430									6.0			1.18					
1435									6.0			1.18					
1440									6.0			1.18					
1445									6.0			1.18					
1450									6.0			1.18					
1455									6.0			1.18					
1459									6.0			1.18					CLOSE DOWNHOLE SHUT-OFF.
SUNDAY 7-24-94																	
1430																	RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
1539																	INSTRUMENTS ON SURFACE.
1544																	POWERED DOWN GRC EMS-725 INSTRUMENTS.
																	UPPER GAUGE (76095) - YOUFL1U
																	LOWER GAUGE (72289) - YOUFL1L



HERRINGTON (2470-2497)  
 KREIDER (2502-2535)  
 ODDELL (2535-2552)  
 WINFIELD SAND (2552-2559)  
 WINFIELD CARBONATE (2559-2591)  
 GAGE (2591-2608)  
 TOWANDA (2608-2658)  
 HOLMESVILLE (2658-2671)  
 U. Ft. Reley (2671-2713)  
 L. Ft. Reley (2713-2728)

0-18" **THE TOWER**  
 2 x 750" **THE TOWER**  
 0105" **THE TOWER**  
 7/23/84

0-100% **MMW-0-100%**  
 0-100% **SHAW-WALKER**  
 0105" **SHAW-WALKER**  
 7/23/84

0-100% **SHAW-WALKER**  
 0105" **SHAW-WALKER**  
 7/23/84

**ALIBRATED**  
**CHARTS**  
 MODEL NO. 1000





**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/S	WATER BBL/S	TEST:	ANNUAL	RETEST	DATE
SATURDAY 7-23-94																	7-24-94
														REMARKS PERTINENT TO TEST DATA QUALITY			
0005														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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), U. FT RILEY (2671-2713), AND L. FT. RILEY (2713-2728).			
0010								41					82.98				
0015								46					87.91				
0020								48					89.83				
0025								49					90.56				
0030								49					90.56				
0035								50					91.29				
0040								50					91.29				
0045								51					91.20				
0050								52					93.11				
0055								52					93.11				
0100								53					94.03				
0105								53					94.03				
1050														END FLOW TEST. PREPARE TO RUN CORE BARREL.			
														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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), U. FT. RILEY (2671-2713), L. FT. RILEY (2713-2728), AND FLORENCE (2728-2746).			
1055								6					31.68				

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

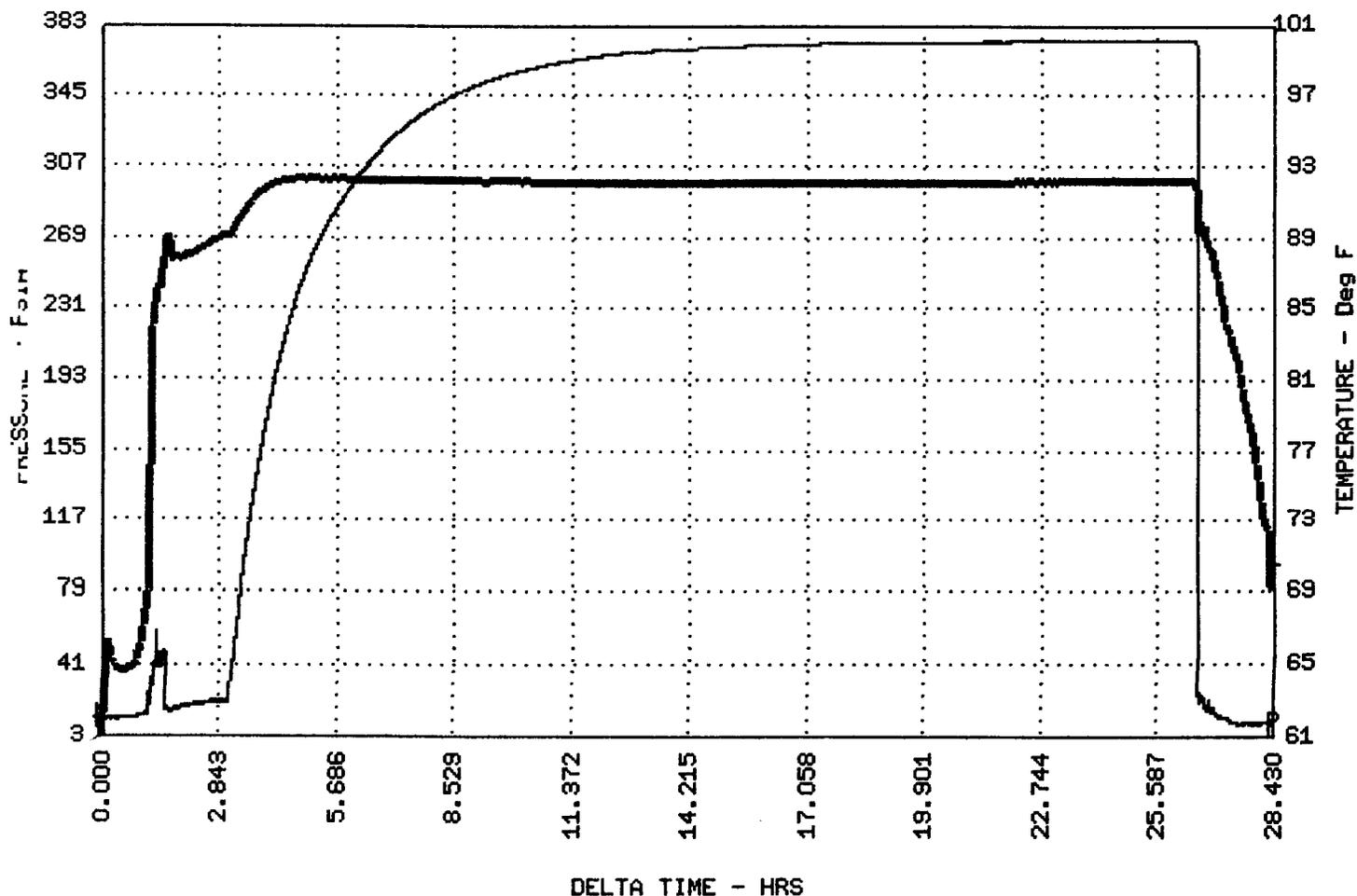
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING	
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.S.	WATER BBL.S.	TEST:	ANNUAL	RETEST	DATE	
SATURDAY 7-23-94	(CONTD)																	7-24-94
																		REMARKS PERTINENT TO TEST DATA QUALITY
1100										8		36.51						
1105										9		38.79						
1110										10		40.89						
1115										10		40.89						
1120										10		40.89						
1125										10		40.89						
1130										11		43.09						
1135										11		43.09						
1140										11		43.09						
1145										11		43.09						
1150										12		45.0						END FLOW TEST. PREPARE TO RUN DST #13 (FLORENCE).
1330																		SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY OFF CASING.
																		(COMINGLED GAS FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), U. FT. RILEY (2671-2713), AND L. FT. RILEY (2713-2728)).
1335										9		38.79						
1340										9		38.79						
1345										10		40.89						
1350										10		40.89						
1355										10		40.89						
1400										10		40.89						
1405										10		40.89						
1410										10		40.89						
1415										10		40.89						
1420										10		40.89						



# 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: WREFORD (2746-2788)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2774'.

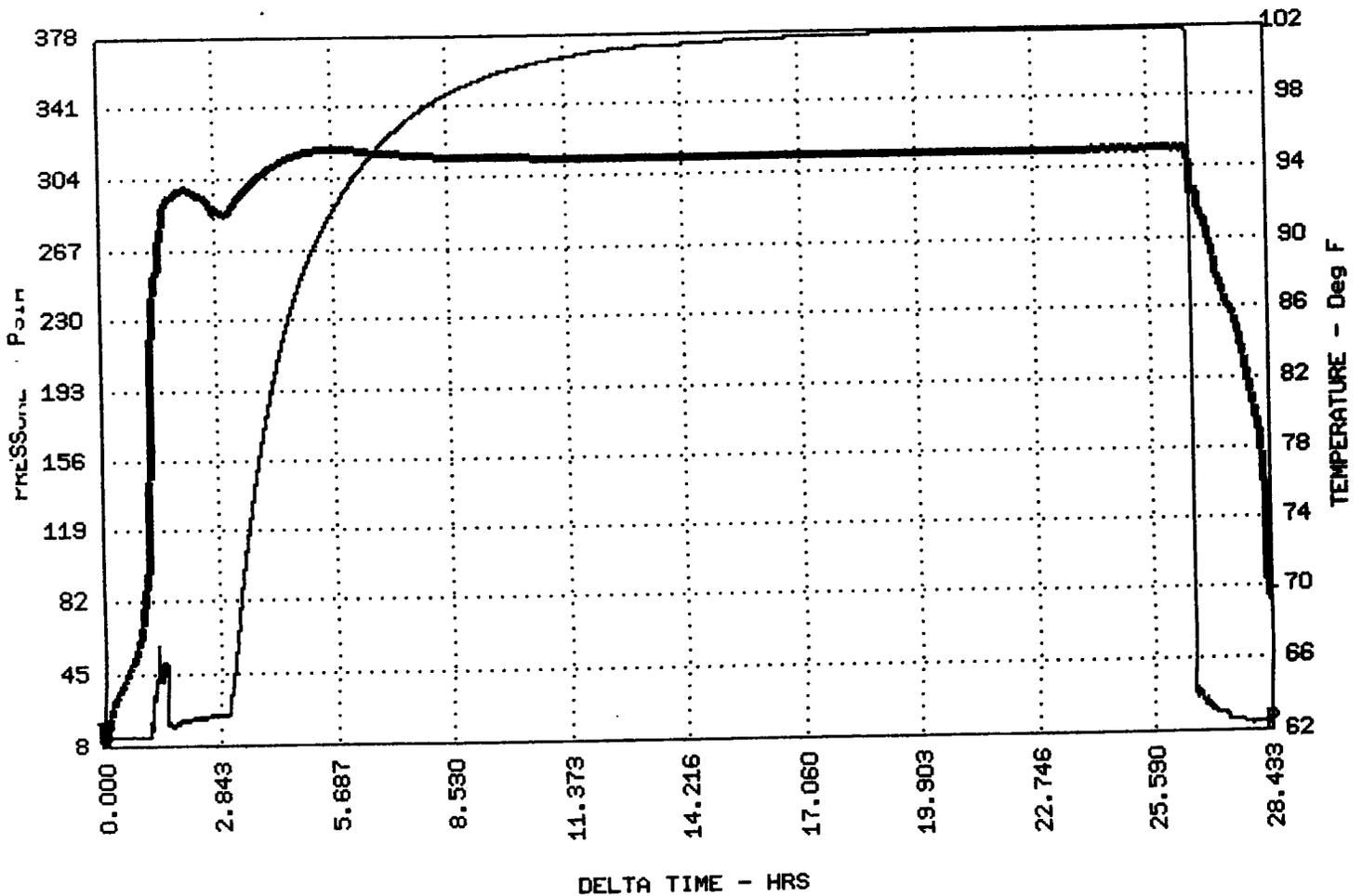
Starting date: 07/25/94  
time: 03:24:00



# 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: WREFORD (2746-2788)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2778'.

Starting date: 07/25/94  
time: 03:24:00



# 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

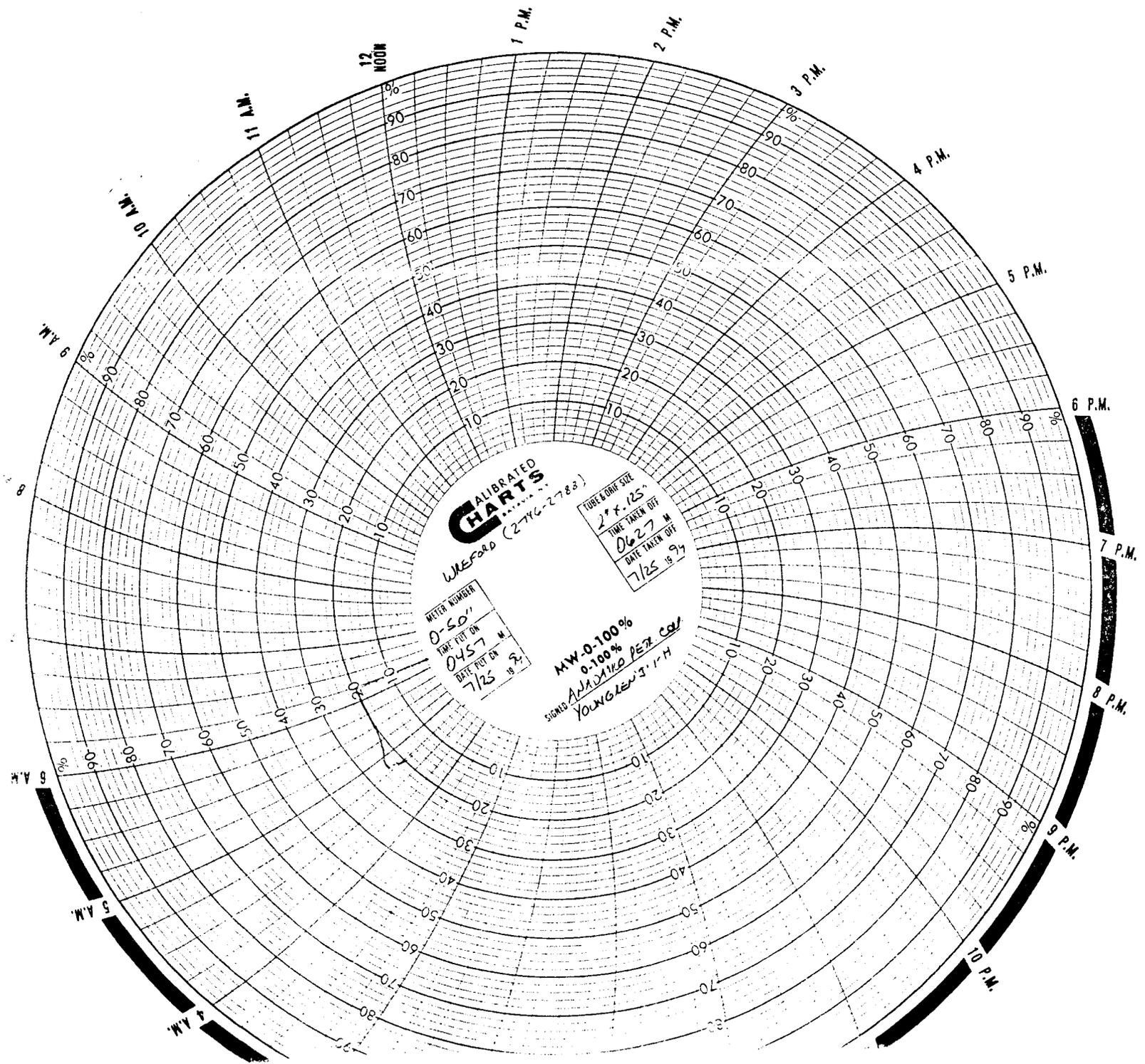
Lab Number: 940358  
 Sample From: Youngren 'J' 1-H DST 14  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/26/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Wreford

	Mole %	GPM
Helium	He: 0.601	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 13.363	0.000
Carbon Dioxide	CO2: 0.072	0.000
Methane	C1: 73.382	0.000
Ethane	C2: 6.769	1.810
Propane	C3: 3.829	1.055
Iso Butane	iC4: 0.442	0.145
Normal Butane	nC4: 0.986	0.311
Iso Pentane	iC5: 0.163	0.060
Normal Pentane	nC5: 0.202	0.073
Hexanes Plus	C6+: 0.191	0.083

TOTAL: 100.000      3.537  
 Z Fact: 0.9975  
 SP.GR.: 0.7119  
 BTU (SAT): 1015.2 @ 14.73 psia  
 BTU (DRY): 1033.1 @ 14.73 psia  
 OCTANE RATING: 107.7

COMMENTS:



**CALIBRATED CHARTS**  
WREFO RD (2776-2783)

TUBE & TONG SIZE  
2" x 125"  
TIME TAKEN OFF  
0627  
DATE TAKEN OFF  
7/25 1994

METER NUMBER  
0-50"  
TIME PUT ON  
0457  
DATE PUT ON  
7/25 1994

MW-0-100%  
0-100%  
SIGNED: ANDY KOB DEZ COY  
YOUNGLEN'S 1-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 @ 2425 TD \_\_\_\_\_ PB \_\_\_\_\_ GL \_\_\_\_\_  
 TBG \_\_\_\_\_ WT \_\_\_\_\_ SET @ \_\_\_\_\_ SN \_\_\_\_\_ PKR \_\_\_\_\_ KB \_\_\_\_\_  
 PERFS 2746 TO 2788 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
 PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
 GG .7119 API \_\_\_\_\_ @ \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR WREFORD

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 7-24-94																		7-26-94
1740																		START IN WELL WITH CORE BARREL.
1830																		CORE BARREL ON BOTTOM.
1930																		START CORING.
2115																		FINISH CORING WREFORD (2746-2788).
2200																		START OUT OF WELL WITH CORE BARREL.
2320																		CORE BARREL ON SURFACE.
MONDAY 7-25-94																		
0324																		POWERED UP GRC EMS-725 INSTRUMENTS.
0329																		START IN WELL WITH INSTRUMENTS.
0455																		INSTRUMENTS ON BOTTOM.
																		BOTTOM OF TOP PACKER - 2755'
																		BOTTOM OF BOTTOM PACKER - 2763'
																		BOTTOM OF UPPER GAUGE - 2774'
																		BOTTOM OF LOWER GAUGE - 2778'
0457																		SET PACKER.
0457																		START FLOW PERIOD WITH 2" O.W.T. AND 1/8" PLATE.
																		GAS VOLUME CORRECTED TO A .7119 GRAVITY.
0502										11.5		1.64						
0502										12.0		1.68						
0512										12.0		1.68						
0517										12.0		1.68						
0522										11.5		1.64						

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	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.	WATER BBL.						
MONDAY 7-26-94	(CONTD)																	7-26-94	
0527									11.0			1.61							
0532									11.0			1.61							
0537									10.5			1.57							
0542									10.5			1.57							
0547									10.5			1.57							
0552									10.5			1.57							
0557									10.0			1.53							
0602									10.0			1.53							
0607									10.0			1.53							
0612									10.0			1.53							
0617									10.0			1.53							
0622									10.0			1.53							
0627									10.0			1.53							CLOSE DOWNHOLE SHUT-OFF.
TUESDAY 7-27-94																			
0558																			RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.
0743																			INSTRUMENTS ON SURFACE.
0759																			POWERED DOWN GRC EMS-725 INSTRUMENTS.
																			UPPER GAUGE (76095) - YOUWR1U
																			LOWER GAUGE (72289) - YOUWR1L







**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. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE
SUNDAY 7-24-94																	7-26-94
															REMARKS PERTINENT TO TEST DATA QUALITY		
1610															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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), U. FT. RILEY (2671-2713), L. FT. RILEY (2713-2728), AND FLORENCE (2728-2746).		
1615									44		85.90						
1620									72		109.54						
1625									77		113.19						
1630									78		114.11						
1635									80		115.93						
1640									81		116.39						
1645									82		116.85						
1650									82		116.85						
1655									83		117.76						
1700									83		117.76						
1705									83		117.76						
1710									83		117.76						END FLOW TEST. PREPARE TO RUN CORE BARREL.
MONDAY 7-25-94																	
0030															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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA		

Precision Well Testing

ANADARKO PETROLEUM CORP - YOUNGREN 'J' 1-H

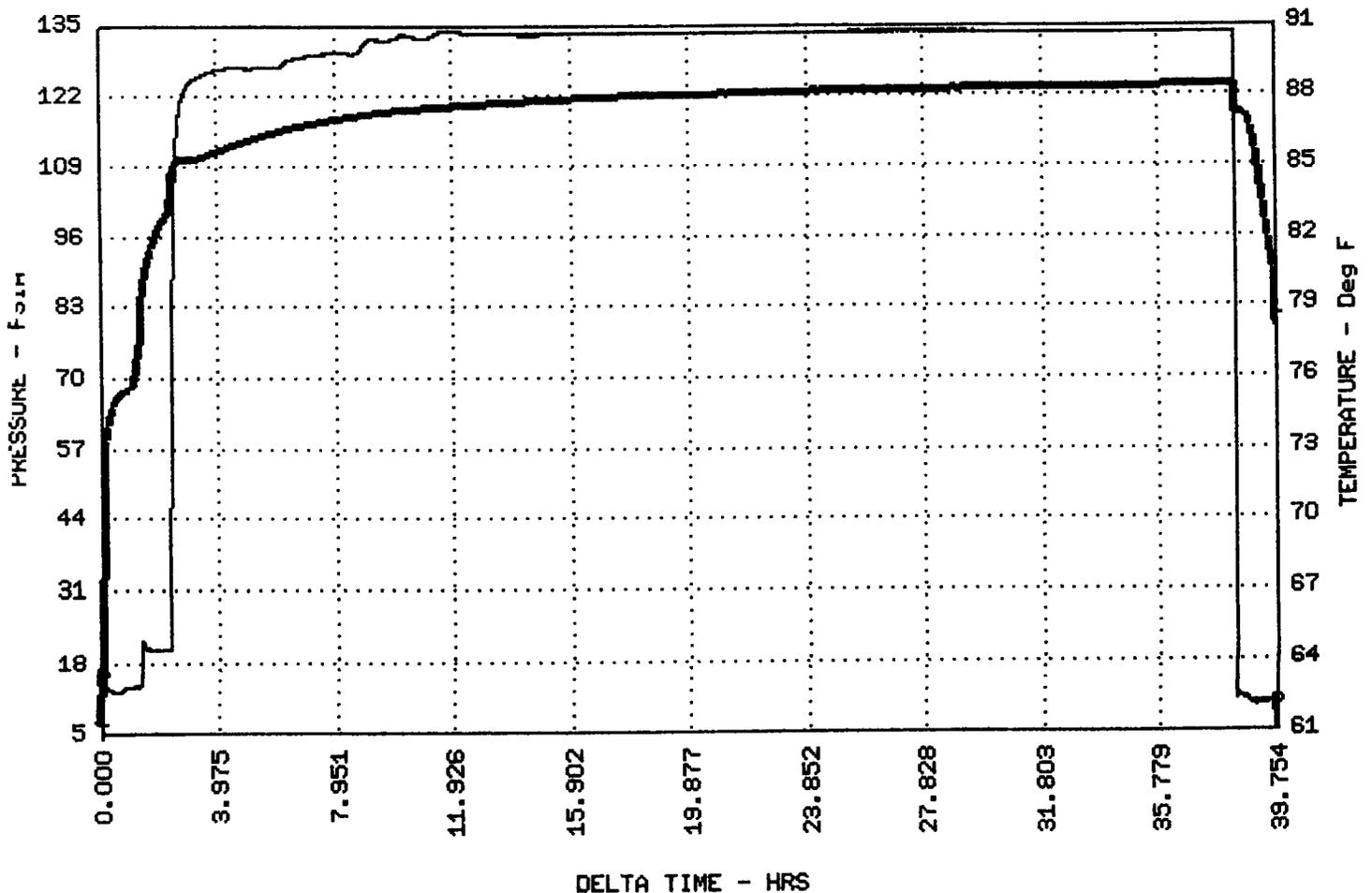
DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE	INITIAL	SPECIAL	ENDING		
		CSG PSIG	$\Delta P$ CSG	TBG PSIG	$\Delta P$ TBG	BHP PSIG	$\Delta P$ BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBL.	WATER BBL.	TEST:	ANNUAL	RETEST	DATE	
MONDAY 7-25-94	(CONTD)														REMARKS PERTINENT TO TEST DATA QUALITY			
0030														(2608-2658), HOLMESVILLE (2658-2671), U. FT. RILEY (2671-2713), L. FT. RILEY (2713-2728), FLORENCE (2728-2746), WREFORD (2746-				
0035									6			31.68						
0040									7			34.14						
0045									7			34.14						
0050									7			34.14						
0055									7			34.14						
0100									7			34.14						
0105									7			34.14						
0110									7			34.14						
0115									7			34.14						
0120									7			34.14						
0125									7			34.14		END FLOW TEST. PREPARE TO RUN LOG.				
0130														SET PACKER. INSTALL 2" O.W.T. WITH 3/4" PLATE DIRECTLY				
0457														CASING.				
														(COMINGLED GAS RATE FROM HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA HOLMESVILLE (2658-2671), U. FT. RILEY (2671-2713), L. FT. RILEY (2713-2728), AND FLORENCE (2728-2746).				
0502									9			38.79						
0507									8			36.51						
0512									8			36.51						
0517									8			36.51						
0522									8			36.51						
0527									8			36.51						
0532									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: COMINGLED CHASE (2470-2788)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: UPPER GAUGE SET AT 2433'.

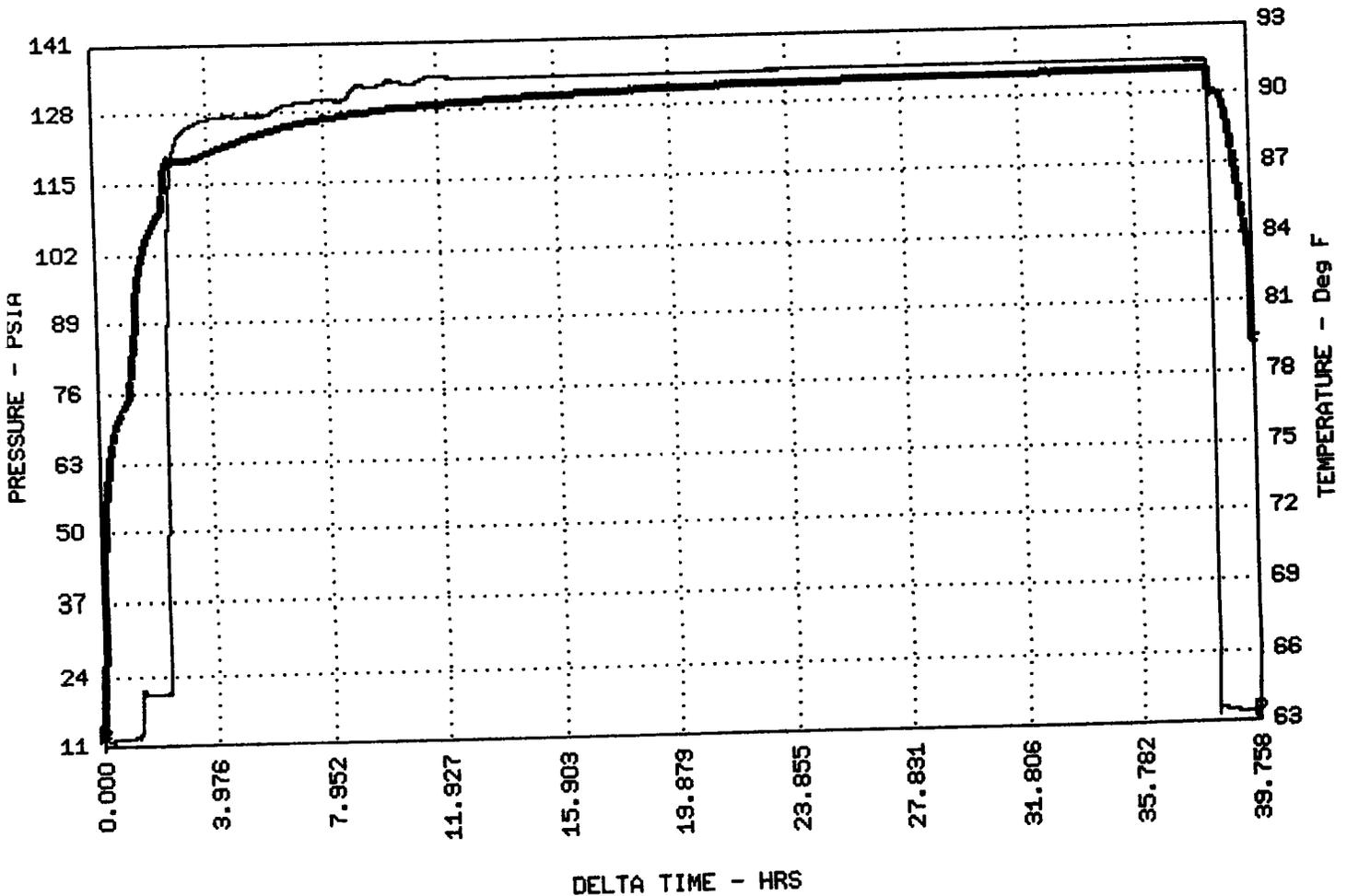
Starting date: 07/26/94  
time: 15:55:00



# 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 CHASE (2470-2788)  
LOCATION: 4-33S-38W STEVENS CO., KANSAS  
TEST OPERATOR: HELM  
COMMENTS: LOWER GAUGE SET AT 2437'.

Starting date: 07/26/94  
time: 15:55:00



## 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

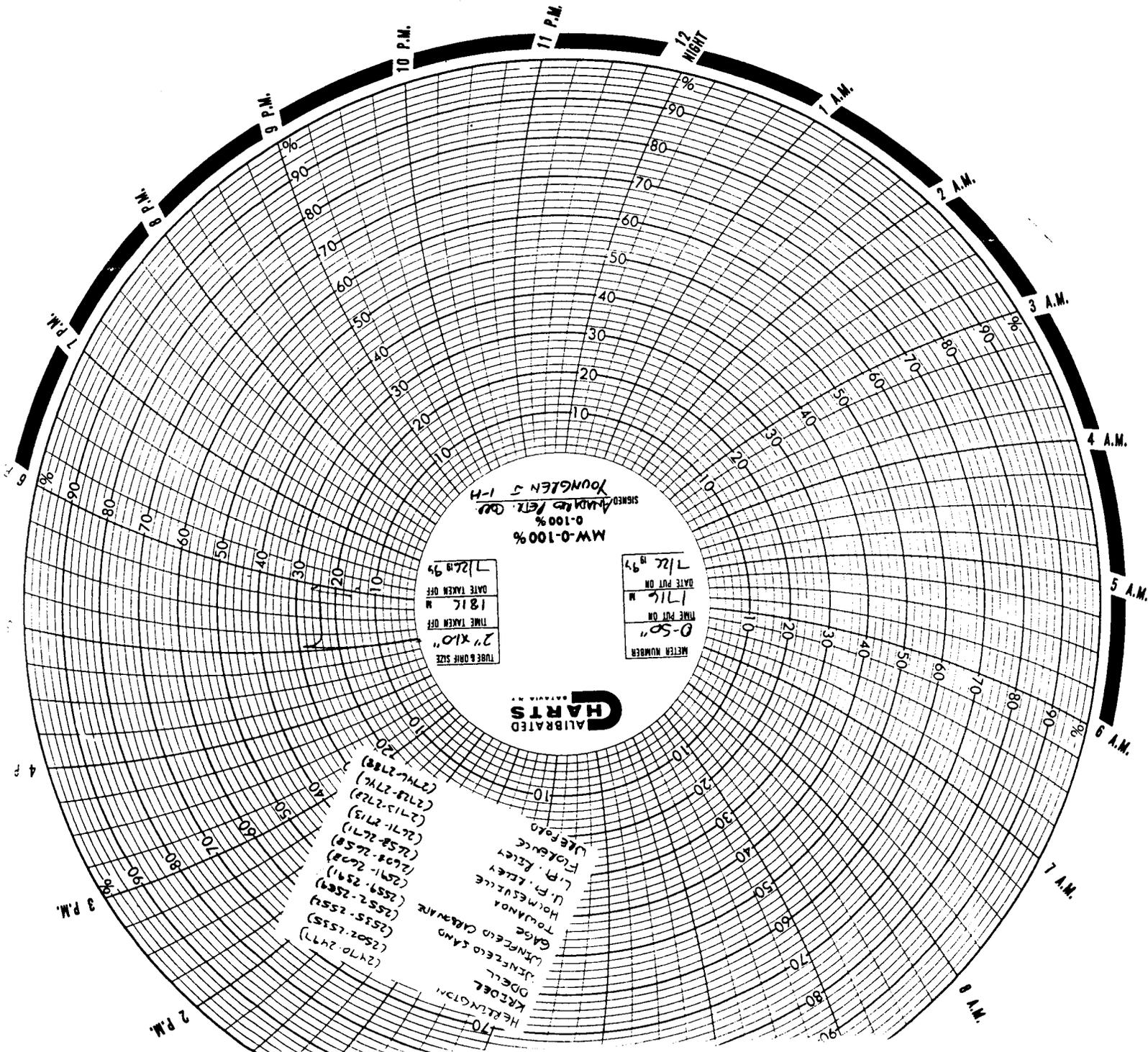
Lab Number: 940359  
 Sample From: Youngren 'J' 1-H DST 15  
 Producer: Anadarko  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 07/26/94  
 Pressure:  
 Temperature:  
 Location: 4-33-38W  
 County: Stevens  
 State: Kansas  
 Formation: Chase  
 -----Comingled

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	13.377
Carbon Dioxide	CO2:	0.000
Methane	C1:	73.775
Ethane	C2:	6.790
Propane	C3:	3.888
Iso Butane	iC4:	0.441
Normal Butane	nC4:	1.055
Iso Pentane	iC5:	0.209
Normal Pentane	nC5:	0.244
Hexanes Plus	C6+:	0.221

TOTAL: 100.000    3.625  
 Z Fact: 0.9975  
 SP.GR.: 0.7180  
 BTU (SAT): 1028.2 @ 14.73 psia  
 BTU (DRY): 1046.4 @ 14.73 psia  
 OCTANE RATING: 108.4

COMMENTS:    Sample entered under vacuum  
                  Insufficient pressure for Helium analysis



M.W-0.100%  
 0-100%  
 Younglen S. 1-H  
 Signed  
 Applied Lett. Co.

TUBE & ORIF SIZE  
 2" x 1.0"  
 TIME TAKEN OFF  
 1816 M  
 DATE TAKEN OFF  
 7/26/97

METER NUMBER  
 0-50"  
 TIME PUT ON  
 1716 M  
 DATE PUT ON  
 7/22/97

**CHARTS**  
 CALIBRATED  
 BATHING CO.

- HEKUNGIN 170
- DRELL
- KREDEL
- WINFELD SAND
- WINFELD CARRIAGE
- GAGE
- TOWMAN
- HOMESTYLE
- U.P. LLEY
- L.P. LLEY
- FLOREUC
- JEFAKO
- (2470-2477)
- (2502-2535)
- (2535-2552)
- (2552-2589)
- (2589-2591)
- (2608-2622)
- (2628-2658)
- (2671-2671)
- (2712-2713)
- (2712-2722)
- (2722-2722)
- (2747-2782)



**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. 2470 TO 2788 TO \_\_\_\_\_ TO \_\_\_\_\_ TO \_\_\_\_\_  
PROVER \_\_\_\_\_ METER \_\_\_\_\_ TAPS \_\_\_\_\_ ORIFICE \_\_\_\_\_ PCR \_\_\_\_\_ TCR \_\_\_\_\_  
GG .718 API \_\_\_\_\_ GM \_\_\_\_\_ RESERVOIR COMINGLED CHASE

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA			LIQUIDS		TYPE TEST:	INITIAL _____ SPECIAL _____	ENDING DATE <u>7-27-94</u>	
		CSG PSIG	$\Delta$ P CSG	TBG PSIG	$\Delta$ P TBG	BHP PSIG	$\Delta$ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND. BBLs.				WATER BBLs.
TUESDAY 7-26-94																
0815																GAS VOLUMES CORRECTED TO A .718 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 HERRINGTON (2470-2497), KRIDER (2502-2535), ODELL (2535-2552), WINFIELD SAND (2552-2559), WINFIELD CARBONATE (2559-2591), GAGE (2591-2608), TOWANDA (2608-2658), HOLMESVILLE (2658-2671), U. FT. RILEY (2671-2713), I. FT. RILEY ( 2713-2728), FLORENCE (2728-2746), AND WREFOED (2746-2788).
0820									26		66.18					
0825									27		67.42					
0830									29		69.89					
0835									30		71.12					
0840									31		72.26					
0845									31		72.26					
0850									31		72.26					
0855									32		73.41					
0900									32		73.41					
0905									32		73.41					
0910									32		73.41					
0915									33		74.55					END FLOW TEST. PREPARE TO RUN CORE BARREL TO CIRCULATE WELL CLEAN.
0930																START IN WELL WITH CORE BARREL.
1240																CORE BARREL ON BOTTOM.
1345																FINISH CIRCULATING. START OUT OF WELL WITH CORE BARREL.
1515																CORE BARREL ON SURFACE.
1555																POWERED UP GRC EMS-725 INSTRUMENTS.

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	
TUESDAY 7-26-94	(CONTD)																	7-27-94
1559															START IN WELL WITH INSTRUMENTS.			
1713															INSTRUMENTS ON BOTTOM.			
															BOTTOM OF TOP PACKER - 2418'			
															BOTTOM OF BOTTOM PACKER - 2426'			
															BOTTOM OF UPPER GAUGE - 2433'			
															BOTTOM OF LOWER GAUGE - 2437'			
1716															SET PACKER.			
1716		START FLOW PERIOD WITH 2" O.W.T. AND 1" PLATE.																
1721										13.5		87.25			GAS TO SURFACE.			
1726										13		85.56						
1731										12		82.09						
1736										12		82.09						
1741										12		82.09						
1746										12		82.09						
1751										12		82.09						
1756										12		82.09						
1801										12		82.09						
1806										12		82.09						
1811										12		82.09						
1816										12		82.09			CLOSE DOWNHOLE SHUT-OFF.			
WEDNESDAY 7-27-94															RELEASE PACKER. START OUT OF WELL WITH INSTRUMENTS.			
0618															INSTRUMENTS ON SURFACE.			
0736															POWERED DOWN GRC EMS-725 INSTRUMENTS.			
0740																		



PANY: GRC  
ENT: PRECISION WELL TESTERS  
SE NUMBER: 72289, 76950, 76211  
- NAME: LAB  
WELL NUMBER: VERIFICATION AT 100 DEGREES  
T NUMBER: VERIFIED TO 700PSIA  
ATION: NEW IBERIA, LA.  
T OPERATOR: NICK LAVOLPICELLA  
MENTS: 6-23-94

\*\*\*\*\* ELECTRONIC GAUGE VERIFICATION \*\*\*\*\*

5/23/94

GAUGE SERIAL NUMBER	TEMPERATURE FREQUENCY Hz	CALCULATED TEMPERATURE Deg F	PRESSURE FREQUENCY Hz	CALCULATED PRESSURE PSIA
72289	15921.5913	100.39	726005.8108	14.99
72289				
76095	16583.3923	98.22	712609.8684	11.76
76095				
76211	16262.7549	98.71	758068.0263	18.29
76211				
72289	15924.9877	100.51	726005.7895	15.01
72289				
76095	16586.8421	98.33	712608.8158	11.76
76095				
76211	16265.7196	98.81	758067.5000	18.30
76211				
72289	15927.5000	100.60	726005.0000	15.02
72289				
76095	16589.1447	98.40	712607.2368	11.73
76095				
76211	16267.9646	98.88	758066.7105	18.30
76211				
72289	15929.3051	100.66	726003.8158	15.01
72289				
76095	16590.6702	98.45		
76211	16272.7961	99.04	760321.5789	118.25
76211				
72289	15933.2525	100.80	731623.8158	114.73
72289				
76095	16594.0789	98.57	715370.7895	111.68
76095				
76211	16274.1941	99.09	737125.1316	214.46
72289				
76095	16597.4630	98.68	718105.2632	211.58
76095				
76211	16278.3594	99.23	762557.5000	218.25
76211				
72289	15937.5329	100.96	737124.2105	214.45
72289				
76095	16598.0880	98.70	764773.1579	318.17
76211				
72289	15938.5814	100.99	742513.0263	314.17
72289				
76095	16599.0954	98.73	720809.3421	311.36
76095				
76211	16280.6867	99.31	764772.7632	318.16
76211				
72289	15939.0789	101.01	723468.5526	410.46
76095				
76211	16282.1998	99.36	766954.6053	417.41
76211				
72289	15940.4523	101.06	747798.8158	414.00
72289				
76095	16600.5674	98.78		

\*\*\*\*\* ELECTRONIC GAUGE VERIFICATION \*\*\*\*\*

06/23/94

GAUGE SERIAL NUMBER	TEMPERATURE FREQUENCY Hz	CALCULATED TEMPERATURE Deg F	PRESSURE FREQUENCY Hz	CALCULATED PRESSURE PSIA
76095			723468.3784	410.46
76211	16282.8043	99.38		
76211			766954.3421	417.41
72289	15940.8882	101.07		
76095			726124.4737	510.43
76211			769135.0000	517.46
72289	15942.1628	101.12		
72289			752980.3947	513.82
76095	16602.1258	98.83		
76095			726124.6053	510.44
76211	16284.6546	99.44		
76211			769134.7368	517.45
72289	15942.3314	101.13		
72289			752980.0000	513.81
76095	16602.2327	98.83		
76095			726124.3421	510.44
76211	16284.8355	99.45		
76211			769134.7368	517.46
72289	15942.6234	101.14		
76095	16602.3808	98.84		
76095			726124.0789	510.43
76211	16285.0987	99.46		
72289	15942.7303	101.14		
72289			752979.4737	513.81
76095	16602.5123	98.84		
76211	16285.1891	99.46		
72289	15942.8865	101.14		
76095	16602.6110	98.84		
76095			728755.7895	610.46
72289	15943.1044	101.15		
72289			758064.0789	613.65
76095	16602.6398	98.84		
76095			728755.3947	610.44
76211	16285.6250	99.47		
76211			771297.6316	617.54
72289	15943.2607	101.16		
72289			758064.4737	613.66
76095	16602.7179	98.85		
76095			728755.5263	610.45
72289	15943.6513	101.17		
72289			763057.3684	713.58
76095	16603.0839	98.86		
76095			731346.0526	709.88
76211	16286.2089	99.49		
76211			773420.3947	716.59
72289	15943.7829	101.18		
72289			763057.1053	713.57
76095	16603.2360	98.86		
76095			731346.0526	709.88
76211	16286.2952	99.50		

**PRECISION MEASUREMENT SERVICES**  
 P.O. BOX 1843 • 211 SOUTH COUNTRY ESTATES  
 LIBERAL, KANSAS 67905 - 1843  
 316/624-4505

## ORIFICE METER TEST REPORT

PRODUCER: Precision Well Testing LEASE: \_\_\_\_\_  
 PURCHASER: Orifice Test Meter LOCATION: \_\_\_\_\_  
 IDENTIFICATION #: \_\_\_\_\_ COUNTY: \_\_\_\_\_ STATE: \_\_\_\_\_

METER MAKE: Barton TUBE SIZE TYPE: \_\_\_\_\_ CHART TYPE: %  
 SERIAL#: \_\_\_\_\_ TYPE OF FITTING: FLG. - SIMP. - SR. CLOCK TYPE: Programmable  
 PRESS. RANGE: 50" UPSTREAM ID: \_\_\_\_\_ DIFF. FOUND: \_\_\_\_\_  
 AUTOMATIC RANGE: N/A DOWNSTREAM ID: \_\_\_\_\_ STATIC FOUND: \_\_\_\_\_  
 TEMP. RANGE: N/A BETA RATIO: \_\_\_\_\_ TEMP FOUND: \_\_\_\_\_

DIFFERENTIAL TEST:			STATIC TEST			ORIFICE PLATE INSPECTION			
Zero Check: <u>Good</u> Arc: <u>Good</u>			PSIG _____	PSIA = _____		Plate Size _____			
Blank Test: <u>Good</u> Time Lag: _____			PSIA Zero @ _____	Found	Left	Sharp _____			
PSIA	Found	Left	PSIA <u>N/A</u>	_____	_____	Beveled _____			
10		10	PSIG _____	_____	_____	Dirty _____			
20		20	or Dead Weight _____	_____	_____	Nicked _____			
30		30	TEMPERATURE TEST	Found	Left	Pitted _____			
40		40		Test <u>N/A</u>	_____	_____	Warped _____		
50		50		_____	_____	_____	Replaced _____		
35		35		_____	_____	_____			
25		25		_____	_____	_____			
15		15	_____	_____	_____				
0		0	_____	_____	_____				

PLATE CHANGE \_\_\_\_\_ Coeff \_\_\_\_\_ Flow \_\_\_\_\_ Mc  
 REMOVED \_\_\_\_\_ Sample Due \_\_\_\_\_  
 INSTALLED \_\_\_\_\_ Sample Taken \_\_\_\_\_  
 TIME \_\_\_\_\_

TYPE TEST:  Initial  Monthly  Quarterly  
 Semi-Annual  Annual  Special

Remarks: Certified Meter Calibration for Well Testing

Date & Time: 7-1-94 Witness: \_\_\_\_\_  
 Tech: Doug Carson Company: \_\_\_\_\_

