

CONFIDENTIAL

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

ORIGINAL

Operator: License # 4549

Name: Anadarko Petroleum Corporation

Address P. O. Box 351

City/State/Zip Liberal, KS 67905-0351

Purchaser: Panhandle Eastern Pipe Line Co.

Operator Contact Person: J. L. Ashton

Phone (316) 624-6253

Contractor: Name: Norseman Drilling, Inc.

License: 3779

Wellsite Geologist: NA **RELEASED**

Designate Type of Completion
 New Well Re-Entry Workover **JUN 2 8 1995**

Oil SWD Steam Temp. Abn.
 Gas ENHR SIBW SIBW
 Dry Other (Core, WSM, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: NCC

Well Name: MAY 1 1

Comp. Date Old Total Depth

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

1/20/94 2/9/94 4/17/94
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21,255

County Morton

C - SE - SE Sec. 20 Twp. 34S Rge. 43 ^E _W

660 Feet from S (circle one) Line of Section

660 Feet from E (circle one) Line of Section

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

Lease Name USA "AE" Well # 1

Field Name Interstate Field

Producing Formation Upper Morrow

Elevation: Ground 3474.3 KB

Total Depth 4991 PBTB 4180

Amount of Surface Pipe Set and Cemented at 1204 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cat.

Drilling Fluid Management Plan ALT 1 JH 10-6-94
(Data must be collected from the Reserve Pit)

Chloride content 26,541 ppm Fluid volume 5000 bbls

Dewatering method used Natural Evaporation

Location of fluid disposal if hauled offsite:

Operator Name KANSAS CORPORATION COMMISSION

Lease Name License No.

Quarter Sec. Twp. Rng. E/W

County **CONSERVATION DIVISION**
WICHITA, KS

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Leslie I. Barnes

Title Sr. Technical Assistant Date 5/9/94

Subscribed and sworn to before me this 9th day of May 19 94.

Notary Public Cheryl Steers

Date Commission Expires



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

PI

Operator Name Anadarko Petroleum Corporation Lease Name USA "AE" Well # 1

Sec. 20 Twp. 34S Rge. 43
 East
 West

County Morton

ORIGINAL

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	2634	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Greenwood Lansing	2880	
		Lansing	3046	
		Upper Morrow	4054	
		Lower Morrow	4420	

List All E.Logs Run:
 DST #1, 4054-4063' (Morrow A) 30,60,30,120
 Gas to surface in 6 min. IHP 1918, 1st
 Flo. 990 to 1086, 1st SI 1278. 2nd Flo.
 958 to 1086, PSI 1241, GHP 1918, Rec. 258'

Saltwater.

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	24	1204	50/50 Pozmix Common	200 200	4% gel 2% cc. 2% cc
Production	7 7/8	5 1/2	15.5	4512	66/35 Pozmix Class "C"	50 125	1 1/2% /sx Flocele, 1% EA- 15% Salt, 6 Halad 22
Conductor	15"	13 3/8"		503	Class "C"	105	5% /sx Gilsrite, 1% Cacl 2% Diacel "D", 2% Cacl

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth	Type of Cement	#Sacks Used	Type and Percent Additives
	Top Bottom			
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2	4420-4426		A/Perfs in 21 Int w/100 gal 17% FEHCL 10% ACID 600 gal, 15 gal 2% KCL wtr	4420-26
4	4054-4063			4054-63
	CIBP @ 4180			

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8	4053			
Date of First, Resumed Production, SWD or Inj.			Producing Method			
4/12/94			<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls. Gas-Oil Ratio Gravity
			1015		3	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval: 4054-63

ORIGINAL

CONFIDENTIAL

NORSEMAN DRILLING, INC.
WICHITA, KANSAS
DRILLERS' WELL LOG

WELL NAME: USA AE-1
SECTION 20-34S-43W
MORTON COUNTY, KANSAS API # 15-129-21255
COMMENCED: JANUARY 20, 1994
COMPLETED: FEBRUARY 12, 1994
OPERATOR: ANADARKO PETROLEUM CORPORATION

RELEASED

JUN 2 8 1995

FROM CONFIDENTIAL

Depth From	To	Formation	Remarks
0	750	Sand & Redbed	Ran 11 jts of
751	920	Glorietta Sand	13 3/8" csg set @
921	1995	Redbed & Shale	503'; w/375 SX of
1996	5000	Lime-Shale	50/50 pozmix; 4% D-20; 2% SI; 1/4# SX D-2; Tailed with 100 SX Class H; 2% SI; Plug down at 9:00 p.m. on 1/26/94.

KCC

MAY 11
CONFIDENTIAL

RECEIVED

KANSAS CORPORATION COMMISSION

MAY 12 1994

CONSERVATION DIVISION
WICHITA, KS

Ran 28 jts of 24#
8 5/8" csg set @
1204'; w/200 SX of
50/50 pozmix; 2% CC;
1/4# SX Floceal;
Tailed with 200 SX
50/50 Common; 2% CC;
1/4# SX Floceal;
Plug down at 11:15
p.m. on 1/30/94.

Ran 103 jts 5 1/2" 15.5#, Set @ 3512'; Cement w/50 SX
65/35 pozmix; 1/4# SX Floceal; 1st Stage: 125 SX Class
C; 10% E.A. #2; 15% Salt; .06% Halad; 5# SX
Oilsonite; 1% CC; 2nd Stage: 105 SX Class C; 20%
Diacel D; 2% CC; 1/4# SX Floceal; Plug down at 3:30
p.m., on 02/11/94

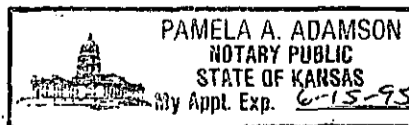
STATE OF KANSAS)I, the undersigned, being duly sworn on
)oath, state that the above Drillers' Well
)Log is true and correct to the best of my
)knowledge and belief and according to the COUNTY OF SEDGWICK
)records of this office.

NORSEMAN DRILLING, INC.

James P. Reilly
JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this

March 9, 1994



My Appointment Expires:

June 15, 1995

Pamela A. Adamson
Pamela A. Adamson, Notary Public
340 Seville
Wichita, KS 67209

ORIGINAL

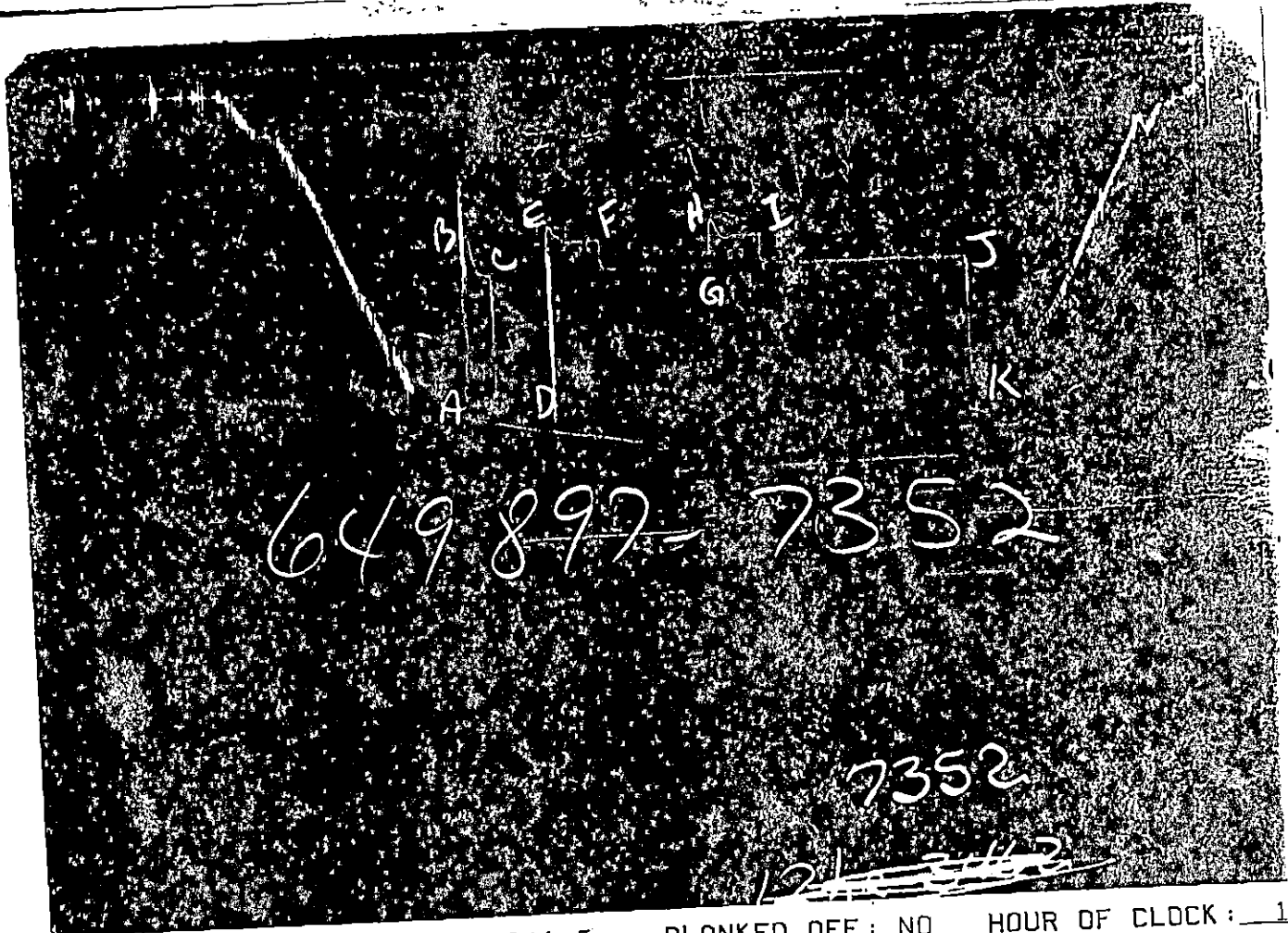
CONFIDENTIAL

ANADARKO PETROLEUM CORPORATION	
LEASE : USA	KCC
WELL NO. : AE-1	MAY 1 1
TEST NO. : 1	CONFIDENTIAL
RPI # 15-129-21255	

TICKET NO. 64989700
 14-FEB-94
 LIBERAL

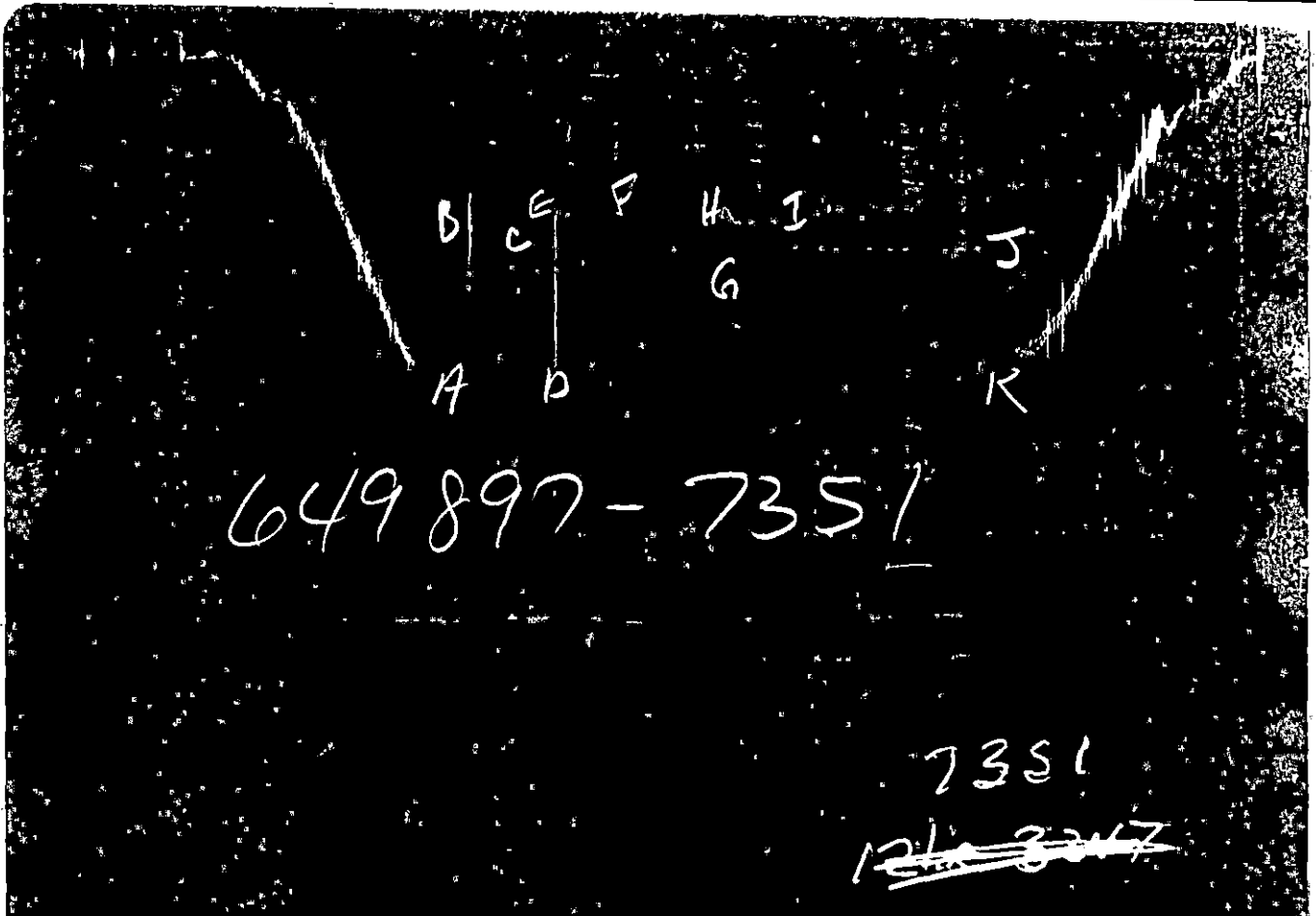
RELEASED
 JUN 2 8 1995
 FROM CONFIDENTIAL

LEGAL LOCATION: USA
 SEC. - TWP. - RNG: 20 - 34 S - 43 W
 LEASE NAME: AE-1
 WELL NO.: 1
 TEST NO.: 1
 FIELD AREA: INTERSTATE
 COUNTY: MORTON
 STATE: KANSAS
 ANADARKO PETROLEUM CORPORATION
 LEASE OWNER/COMPANY NAME: 4080.0 - 4082.0
 TESTED INTERVAL



GAUGE NO: 7352 DEPTH: 4041.5 BLANKED OFF: NO HOUR OF CLOCK: 1

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1899	1936.1			
B	TOOL OPENED INITIALLY		949.2		15.4	
C	OPENED BYPASS		1244.2			
C	OPENED BYPASS		1244.2		33.6	
D	CLOSED BYPASS		1934.4			
E	INITIAL SECOND FLOW	933	982.4	39.0	33.1	F
F	FINAL SECOND FLOW	1058	1046.6			
F	INITIAL FIRST CLOSED-IN	1058	1046.6	60.0	66.0	C
G	FINAL FIRST CLOSED-IN	1213	1245.7			
H	INITIAL THIRD FLOW	933	968.9	30.0	30.9	F
I	FINAL THIRD FLOW	1058	1039.3			
I	INITIAL SECOND CLOSED-IN	1058	1039.3	120.0	120.1	C
J	FINAL SECOND CLOSED-IN	1213	1240.7			
K	FINAL HYDROSTATIC	1899	1917.1			



GAUGE NO: 7351 DEPTH: 4079.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1918	1950.4			
B	TOOL OPENED INITIALLY		974.6			
C	OPENED BYPASS		1245.5	NO	15.4	
C	OPENED BYPASS		1245.5	NO		
D	CLOSED BYPASS		1949.0	CONFIDENTIAL	33.6	
E	INITIAL SECOND FLOW	991	1019.9			
F	FINAL SECOND FLOW	1086	1071.5	39.0	33.1	F
F	INITIAL FIRST CLOSED-IN	1086	1071.5			
G	FINAL FIRST CLOSED-IN	1278	1243.9	60.0	66.0	C
H	INITIAL THIRD FLOW	959	1021.8			
I	FINAL THIRD FLOW	1086	1054.8	30.0	30.9	F
I	INITIAL SECOND CLOSED-IN	1086	1054.8			
J	FINAL SECOND CLOSED-IN	1246	1246.3	120.0	120.1	C
K	FINAL HYDROSTATIC	1918	1937.7			

JUN 2 3 1995

FROM CONFIDENTIAL

EQUIPMENT & HOLE DATA

FORMATION TESTED: MORROW
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 22.0 PACKER TO T.D.
 ALL DEPTHS MEASURED FROM: K.B.
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 3475.0 (AT GROUND LEVEL)
 TOTAL DEPTH (ft): 4082.0
 PACKER DEPTH(S) (ft): 4054, 4050
 FINAL SURFACE CHOKE (in): 0.62500
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.10
 MUD VISCOSITY (sec): 47
 ESTIMATED HOLE TEMP. (°F): 100
 ACTUAL HOLE TEMP. (°F): 105 @ 4077.0 ft

TICKET NUMBER: 64989700
 DATE: 02-06-94 TEST NO: 1
 TYPE DST: OPEN HOLE
 FIELD CAMP: LIBERAL
 TESTER: M. KELLY
 WITNESS: J. BARLOW
T. LEWIS
 DRILLING CONTRACTOR: NORSEMAN #2

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>TOP</u>	<u>0.850 @ 58 °F</u>	<u>6193 ppm</u>
<u>BOTTOM</u>	<u>0.850 @ 58 °F</u>	<u>6193 ppm</u>
<u>PIT</u>	<u>1.800 @ 65 °F</u>	<u>2654 ppm</u>
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 785.0
 cu.ft. OF GAS: 4.764
 cc OF OIL: _____
 cc OF WATER: 5.0
 cc OF MUD: _____
 TOTAL LIQUID cc: 5.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: 0.600 EST.

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

3774 FT. OF GAS IN PIPE
 258 FT. OF SALTWATER

MEASURED FROM
 TESTER VALVE

REMARKS :

[Faint handwritten notes]

TYPE & SIZE MEASURING DEVICE: 6" POSITIVE CHOKE NIPPLE				TICKET NO: 64989700	
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
02-06-94					
1230					CALLED OUT
1500					ON LOCATION...RIG WAS CIRCULATING
1530					RIG STARTED OUT OF HOLE
1730					WORKED ON HIGHGEAR
1839					PICKED UP TOOLS
1917					TOOLS IN TABLE
1920					STARTED IN THE HOLE WITH TOOLS
2140					ON BOTTOM WITH TOOLS
2143					OPENED TOOL; UNABLE TO VERIFY HOLE
					REMAINED FULL; PULLED OFF BOTTOM
					AND CLOSED HYDROSPRING; GAS TO THE
					SURFACE WHILE HYDROSPRING CLOSED;
					RIGGED UP MORE FLOW LINE
2216					ALLOWED PIPE TO BLOW DOWN
2232					BACK ON BOTTOM WITH TOOLS
2235	B.H.				OPENED TOOL WITH GAS TO SURFACE
2240	5/8	200	2146		
2245	5/8	290	3045		
2250	5/8	400	4144		
2255	5/8	500	5142		
2300	5/8	580	5941		
2305					CLOSED TOOL; UNABLE TO GET 11 TURNS;
					BLOCKS UNLOCKED TWISTING DRILLING
					LINE; REPAIRED
2314					CLOSED TOOL
02-07-94					
0014	B.H.				OPENED TOOL WITH GAS TO SURFACE
7777	5/8	300	3145		
7777	5/8	400	4144		
7777	5/8	500	5142		
0044	5/8	620	6340		CLOSED TOOL
0244					PULLED OFF BOTTOM
0548					TOOLS IN TABLE
0636					OUT OF HOLE WITH TOOLS

RELEASED

JUN 2 8 1995

FROM CONFIDENTIAL

TICKET NO: 64989700
 CLOCK NO: 3247 HOUR: 12

GAUGE NO: 7352
 DEPTH: 4041.5

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	949.2		
	2	1.0	1223.1		
	3	2.0	971.2		
	4	3.0	1010.2		
	5	4.0	1061.1		
	6	5.0	1118.8		
	7	5.0	1163.9		
	8	7.0	1199.8		
	9	6.0	1220.1		
	10	9.0	1233.1		
	11	10.0	1238.4		
	12	11.0	1241.2		
	13	12.0	1242.7		
	14	13.0	1244.5		
	15	14.0	1244.3		
C	16	15.4	1244.2		
PACKERS BYPASSED					
C	1	0.0	1244.2		
D	2	33.5	1934.4		
SECOND FLOW					
E	1	0.0	982.4		
	2	1.0	951.6	-30.8	
	3	2.0	946.6	-5.0	
	4	3.0	960.4	13.9	
	5	4.0	981.0	20.6	
	6	5.0	996.6	15.6	
	7	5.0	1005.6	9.0	
	8	7.0	1009.9	4.2	
	9	8.0	1019.2	9.4	
	10	9.0	1024.2	5.0	
	11	10.0	1024.2	0.0	
	12	12.0	1042.3	18.1	
	13	14.0	1045.4	3.1	
	14	16.0	1045.9	0.5	
	15	18.0	1044.0	-1.9	
	16	20.0	1043.8	-0.2	
	17	22.0	1043.7	-0.2	
	18	24.0	1043.8	0.2	
	19	25.0	1045.4	1.6	
	20	28.0	1044.6	-0.8	
	21	30.0	1043.8	-0.8	
	22	32.0	1045.9	2.0	
F	23	33.1	1046.6	0.8	

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST CLOSED-IN					
F	1	0.0	1046.6		
	2	1.0	1219.3	172.7	1.0 1.531
	3	2.0	1226.2	179.6	1.9 1.242
	4	3.0	1229.5	182.8	2.7 1.086
	5	4.0	1231.7	185.0	3.6 0.970
	6	5.0	1233.4	186.7	4.3 0.884
	7	5.0	1235.7	189.1	5.1 0.816
	8	7.0	1236.2	189.6	5.8 0.761
	9	8.0	1237.0	190.3	6.5 0.710
	10	9.0	1237.6	191.0	7.1 0.669
	11	10.0	1238.2	191.6	7.7 0.636
	12	12.0	1239.5	192.8	8.8 0.575
	13	14.0	1240.4	193.8	9.9 0.527
	14	15.0	1240.7	194.1	10.8 0.488
	15	18.0	1241.2	194.5	11.6 0.454
	16	20.0	1241.8	195.2	12.5 0.424
	17	22.0	1241.8	195.2	13.2 0.398
	18	24.0	1241.8	195.2	13.9 0.377
	19	25.0	1241.8	195.2	14.6 0.357
	20	28.0	1241.8	195.2	15.2 0.339
	21	30.0	1241.2	194.5	15.8 0.323
	22	35.0	1240.4	193.8	17.0 0.289
	23	40.0	1242.6	196.0	18.1 0.262
	24	45.0	1245.1	198.5	19.1 0.240
	25	50.0	1245.1	198.5	19.9 0.221
	26	55.0	1245.6	198.9	20.7 0.205
	27	60.0	1245.0	199.4	21.4 0.191
G	28	65.0	1245.7	199.1	22.1 0.177
THIRD FLOW					
H	1	0.0	968.9		
	2	1.0	930.2	-38.6	
	3	2.0	941.9	11.7	
	4	3.0	962.0	20.1	
	5	4.0	987.6	25.6	
	6	5.0	1011.9	24.3	
	7	5.0	1028.4	16.5	
	8	7.0	1042.3	13.9	
	9	8.0	1050.2	8.0	
	10	9.0	1054.0	3.7	
	11	10.0	1055.9	1.9	
	12	12.0	1054.0	-1.9	
	13	14.0	1050.4	-3.6	
	14	15.0	1047.3	-3.1	
	15	18.0	1045.4	-1.9	
	16	20.0	1044.6	-0.8	
	17	22.0	1050.1	5.5	
	18	24.0	1047.0	-3.1	
	19	25.0	1045.4	-1.6	
	20	28.0	1042.9	-2.5	

REMARKS:

TICKET NO: 64989700
 CLOCK NO: 3247 HOUR: 12

GAUGE NO: 7352
 DEPTH: 4041.5

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
THIRD FLOW - CONTINUED					
	21	30.0	1040.4	-2.5	
I	22	30.9	1039.3	-1.1	
SECOND CLOSED-IN					
I	1	0.0	1039.3		
	2	1.0	1214.8	175.5	1.0 1.817
	3	2.0	1221.4	182.0	1.9 1.522
	4	3.0	1224.8	185.5	2.8 1.353
	5	4.0	1227.6	188.3	3.7 1.233
	6	5.0	1229.7	190.3	4.7 1.138
	7	6.0	1230.6	191.3	5.5 1.070
	8	7.0	1231.7	192.4	6.3 1.006
	9	8.0	1232.6	193.3	7.1 0.954
	10	9.0	1233.6	194.2	7.9 0.910
	11	10.0	1234.2	194.8	8.6 0.871
	12	12.0	1235.3	195.9	10.1 0.801
	13	14.0	1236.4	197.0	11.5 0.746
	14	16.0	1237.0	197.7	12.8 0.699
	15	18.0	1237.1	197.8	14.0 0.659
	16	20.0	1237.1	197.8	15.2 0.624
	17	22.0	1237.1	197.8	16.4 0.593
	18	24.0	1237.1	197.8	17.5 0.564
	19	26.0	1237.1	197.8	18.5 0.540
	20	28.0	1235.6	196.3	19.5 0.517
	21	30.0	1234.5	195.2	20.4 0.497
	22	35.0	1234.5	195.2	22.6 0.452
	23	40.0	1238.1	198.8	24.6 0.415
	24	45.0	1241.4	202.0	26.4 0.385
	25	50.0	1242.1	202.8	28.1 0.358
	26	55.0	1242.6	203.3	29.6 0.335
	27	60.0	1243.2	203.9	31.0 0.315
	28	70.0	1241.4	202.0	33.5 0.282
	29	80.0	1237.9	198.5	35.6 0.255
	30	90.0	1244.2	204.8	37.4 0.233
	31	100.0	1245.0	205.6	39.0 0.215
	32	110.0	1245.0	205.6	40.5 0.199
J	33	120.1	1240.7	201.4	41.8 0.186

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
RELEASED JUN 2 8 1995 FROM CONFIDENTIAL					

REMARKS:

TICKET NO: 64989700

GAUGE NO: 7351

CLOCK NO: 3462 HOUR: 12

DEPTH: 4079.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	974.6			
2	1.0	1220.5			
3	2.0	998.0			
4	3.0	1032.7			
5	4.0	1083.6			
6	5.0	1131.7			
7	6.0	1175.8			
8	7.0	1203.0			
9	8.0	1224.2			
10	9.0	1234.0			
11	10.0	1238.3			
12	11.0	1239.9			
13	12.0	1241.7			
14	13.0	1243.6			
15	14.0	1244.6			
C 16	15.4	1245.5			
PACKERS BYPASSED					
C 1	0.0	1245.5			
D 2	33.6	1949.0			
SECOND FLOW					
E 1	0.0	1019.9			
2	1.0	1010.6	-9.3		
3	2.0	997.2	-13.4		
4	3.0	1002.9	5.8		
5	4.0	1018.6	15.7		
6	5.0	1032.7	14.1		
7	5.0	1041.2	8.5		
8	7.0	1047.4	6.2		
9	8.0	1054.2	6.7		
10	9.0	1058.0	3.8		
11	10.0	1060.4	2.4		
12	12.0	1068.4	8.0		
13	14.0	1073.2	4.8		
14	16.0	1075.0	1.8		
15	18.0	1074.7	-0.3		
16	20.0	1074.0	-0.6		
17	22.0	1073.4	-0.6		
18	24.0	1072.4	-1.0		
19	26.0	1072.3	-0.2		
20	28.0	1071.5	-0.6		
21	30.0	1071.0	-0.6		
22	32.0	1070.8	-0.2		
F 23	33.1	1071.5	0.6		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST CLOSED-IN					
F 1	0.0	1071.5			
2	1.0	1217.6	146.1	1.0	1.52
3	2.0	1225.5	154.0	1.9	1.24
4	3.0	1228.7	157.2	2.8	1.08
5	4.0	1230.6	159.1	3.6	0.96
6	5.0	1232.7	161.2	4.4	0.87
7	6.0	1232.7	161.2	5.1	0.81
8	7.0	1234.3	162.8	5.8	0.75
9	8.0	1235.6	164.1	6.4	0.71
10	9.0	1235.6	164.1	7.1	0.67
11	10.0	1235.9	164.4	7.7	0.63
12	12.0	1236.4	164.9	8.8	0.57
13	14.0	1238.3	166.8	9.8	0.52
14	16.0	1239.2	167.8	10.8	0.48
15	18.0	1239.9	168.4	11.7	0.45
16	20.0	1240.7	169.2	12.5	0.42
17	22.0	1240.7	169.2	13.2	0.40
18	24.0	1241.3	169.9	13.9	0.37
19	26.0	1241.5	170.0	14.6	0.35
20	28.0	1241.7	170.2	15.2	0.33
21	30.0	1242.1	170.7	15.8	0.32
22	35.0	1243.1	171.6	17.0	0.26
23	40.0	1243.1	171.6	18.1	0.26
24	45.0	1243.7	172.3	19.1	0.24
25	50.0	1244.2	172.8	19.9	0.22
26	55.0	1244.2	172.8	20.7	0.20
27	60.0	1241.8	170.4	21.4	0.19
G 28	66.0	1243.9	172.4	22.1	0.1
THIRD FLOW					
H 1	0.0	1021.8			
2	1.0	976.2	-45.6		
3	2.0	965.8	-10.4		
4	3.0	982.8	17.0		
5	4.0	1003.6	20.8		
6	5.0	1024.4	20.8		
7	6.0	1039.9	15.5		
8	7.0	1055.5	15.5		
9	8.0	1054.1	8.8		
10	9.0	1068.6	4.5		
11	10.0	1070.8	2.2		
12	12.0	1071.6	0.8		
13	14.0	1070.7	-1.0		
14	16.0	1067.8	-2.9		
15	18.0	1065.4	-2.4		
16	20.0	1063.8	-1.6		
17	22.0	1063.8	0.0		
18	24.0	1063.3	-0.5		
19	25.0	1061.1	-2.2		
20	28.0	1058.4	-2.7		

REMARKS:

TICKET NO: 64989700
 CLOCK NO: 3462 HOUR: 12

GAUGE NO: 7351
 DEPTH: 4079.0

















REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
THIRD FLOW - CONTINUED					
I 21	30.0	1056.0	-2.4		
I 22	30.9	1054.8	-1.1		
SECOND CLOSED-IN					
I 1	0.0	1054.8			
2	1.0	1215.7	160.9	1.0	1.794
3	2.0	1221.5	166.6	2.0	1.512
4	3.0	1224.6	170.0	2.9	1.347
5	4.0	1227.1	172.3	3.7	1.235
6	5.0	1228.7	173.9	4.6	1.141
7	6.0	1230.1	175.3	5.5	1.070
8	7.0	1231.1	176.3	6.3	1.008
9	8.0	1231.7	176.9	7.1	0.953
10	9.0	1231.7	176.9	7.9	0.910
11	10.0	1231.7	176.9	8.7	0.869
12	12.0	1231.7	176.9	10.1	0.801
13	14.0	1232.7	177.9	11.5	0.746
14	16.0	1233.5	178.7	12.8	0.700
15	18.0	1235.9	181.1	14.1	0.658
16	20.0	1237.5	182.7	15.2	0.624
17	22.0	1238.2	183.3	16.4	0.592
18	24.0	1238.6	183.8	17.5	0.565
19	26.0	1239.1	184.3	18.5	0.540
20	28.0	1239.1	184.3	19.5	0.517
21	30.0	1239.8	184.9	20.5	0.496
22	35.0	1240.1	185.2	22.7	0.451
23	40.0	1240.9	186.0	24.6	0.415
24	45.0	1241.5	186.7	26.4	0.384
25	50.0	1241.7	186.8	28.1	0.358
26	55.0	1242.2	187.3	29.6	0.336
27	50.0	1239.9	185.1	31.0	0.316
28	70.0	1243.8	188.9	33.4	0.282
29	80.0	1243.8	188.9	35.6	0.255
30	90.0	1244.2	189.4	37.4	0.233
31	100.0	1244.7	189.9	39.0	0.215
32	110.0	1242.5	187.6	40.5	0.199
J 33	120.1	1246.3	191.5	41.8	0.186

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

RELEASED
 JUN 2 0 1995

FROM CONFIDENTIAL

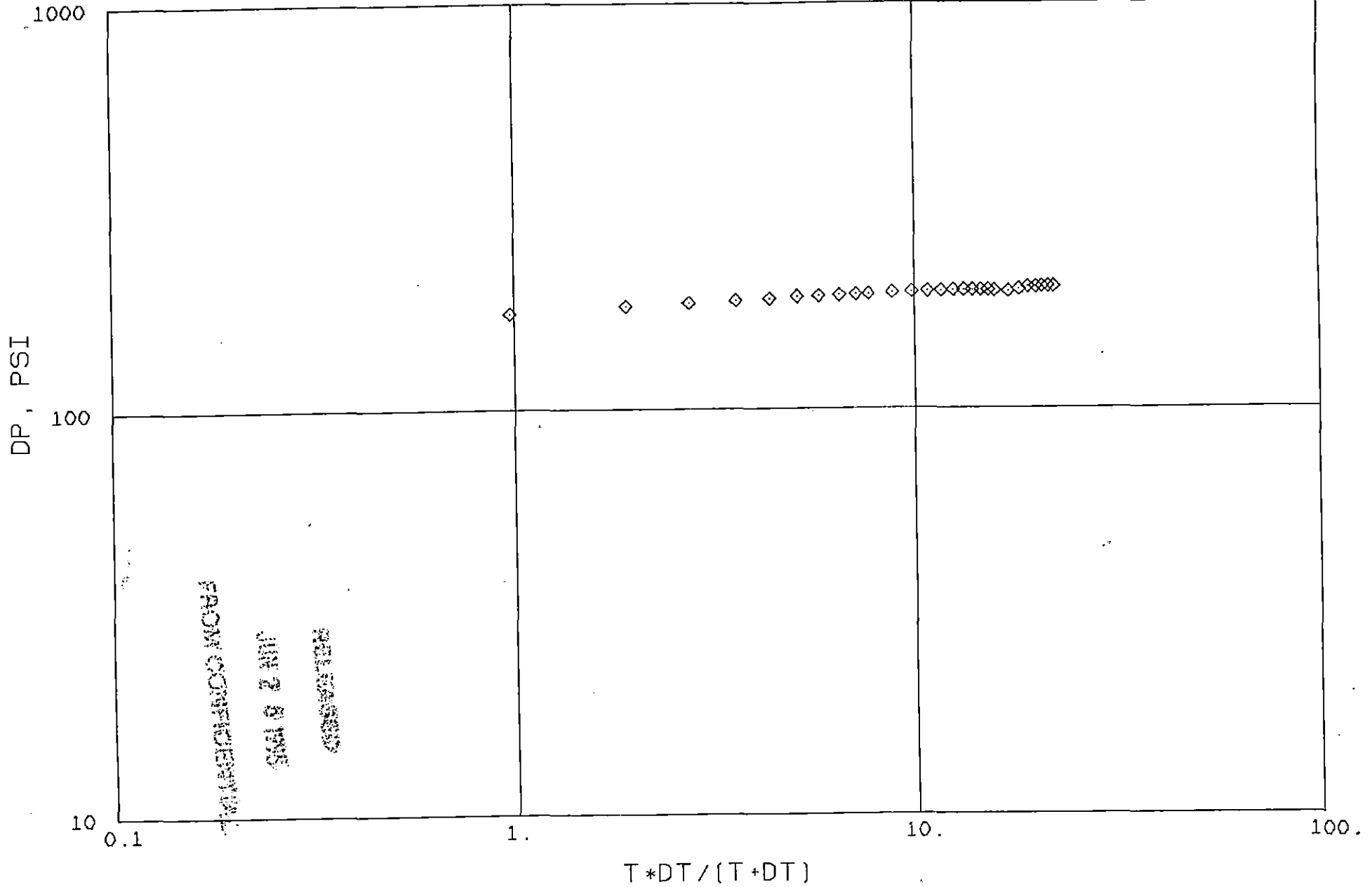
REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	3424.1	
3		DRILL COLLARS.....	6.000	2.250	534.9	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	3959.5
3		DRILL COLLARS.....	6.000	2.250	61.1	
5		CROSSOVER.....	6.000	3.000	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.820	4.7	
13		DUAL CIP SAMPLER.....	5.000	0.750	5.6	
60		HYDRSPRING TESTER.....	5.000	0.750	5.0	4037.4
80		AP RUNNING CASE.....	5.000	2.250	4.1	4039.5
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4054.2
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	4060.0
20		FLUSH JOINT ANCHOR.....	5.000	2.370	15.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.0	4077.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4079.0
TOTAL DEPTH						4082.0

[Faint, illegible text or stamp]

GAUGE NO CIP 1 2
7352 ◇

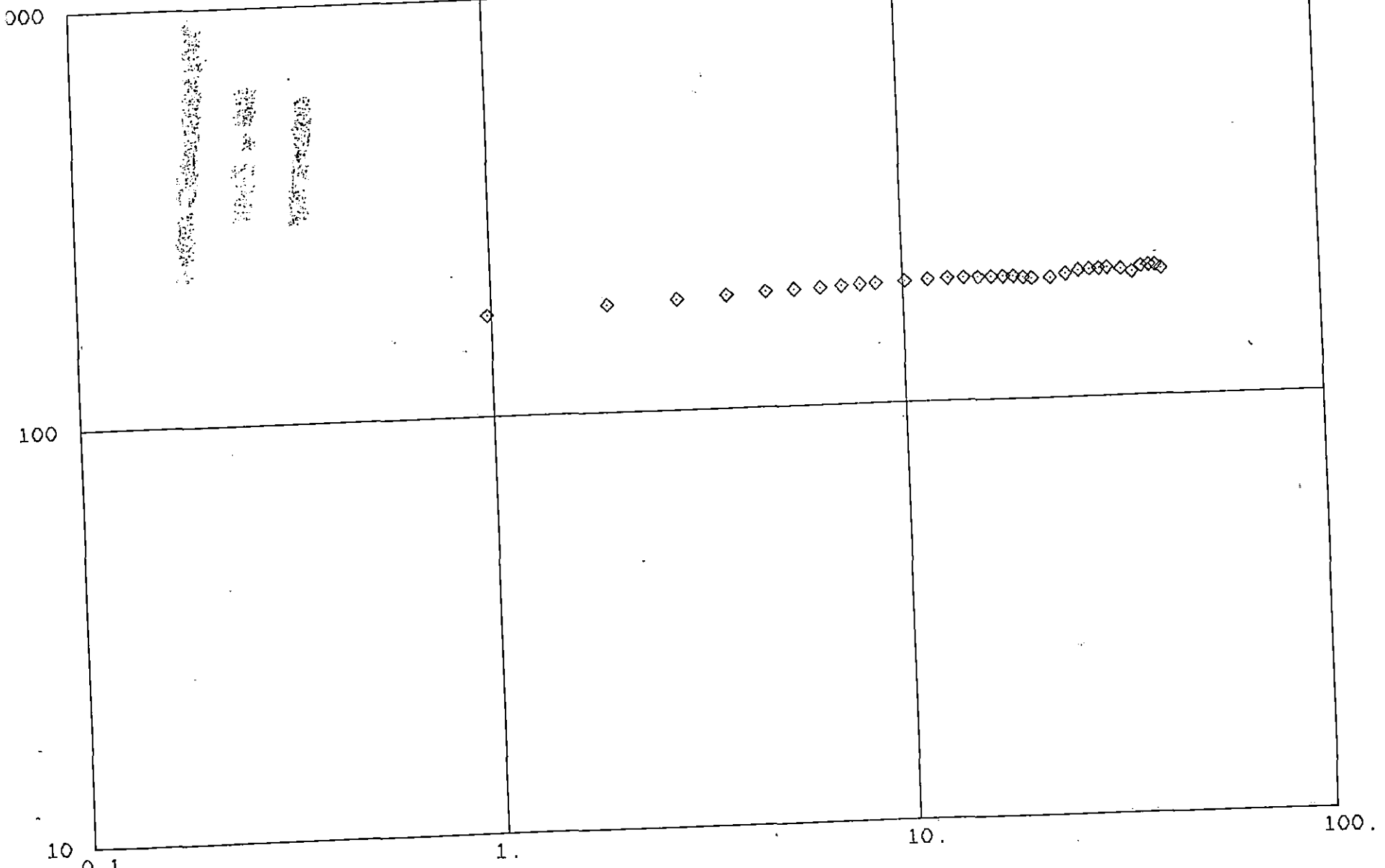
GAUGE NO CIP 1 2
7351



TICKET NO 64989700

GAUGE NO CIP 1 2
7352 ◇

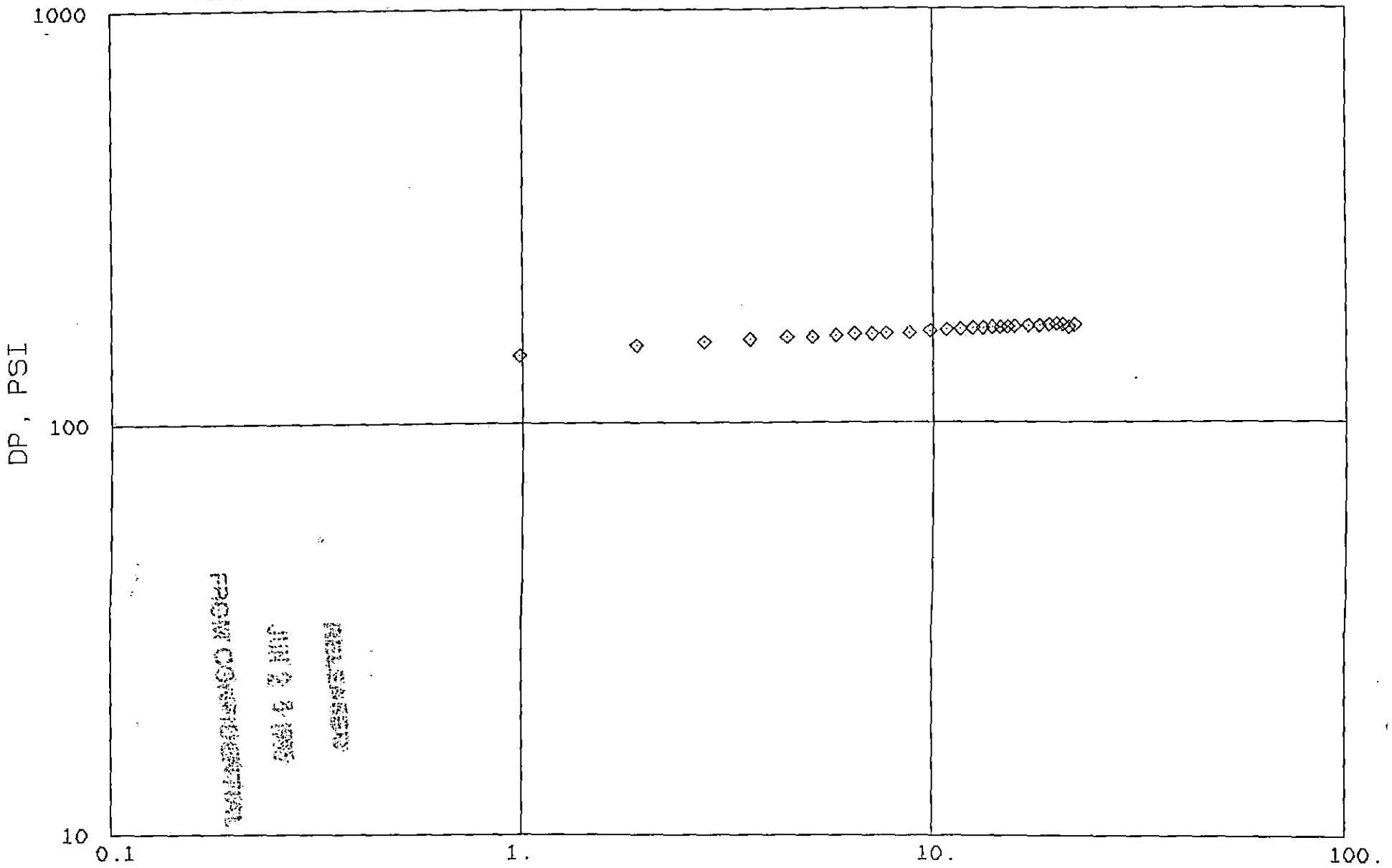
GAUGE NO CIP 1 2
7351



$T * DT / (T + DT)$

GAUGE NO CIP 1 2
7352

GAUGE NO CIP 1 2
7351 \diamond



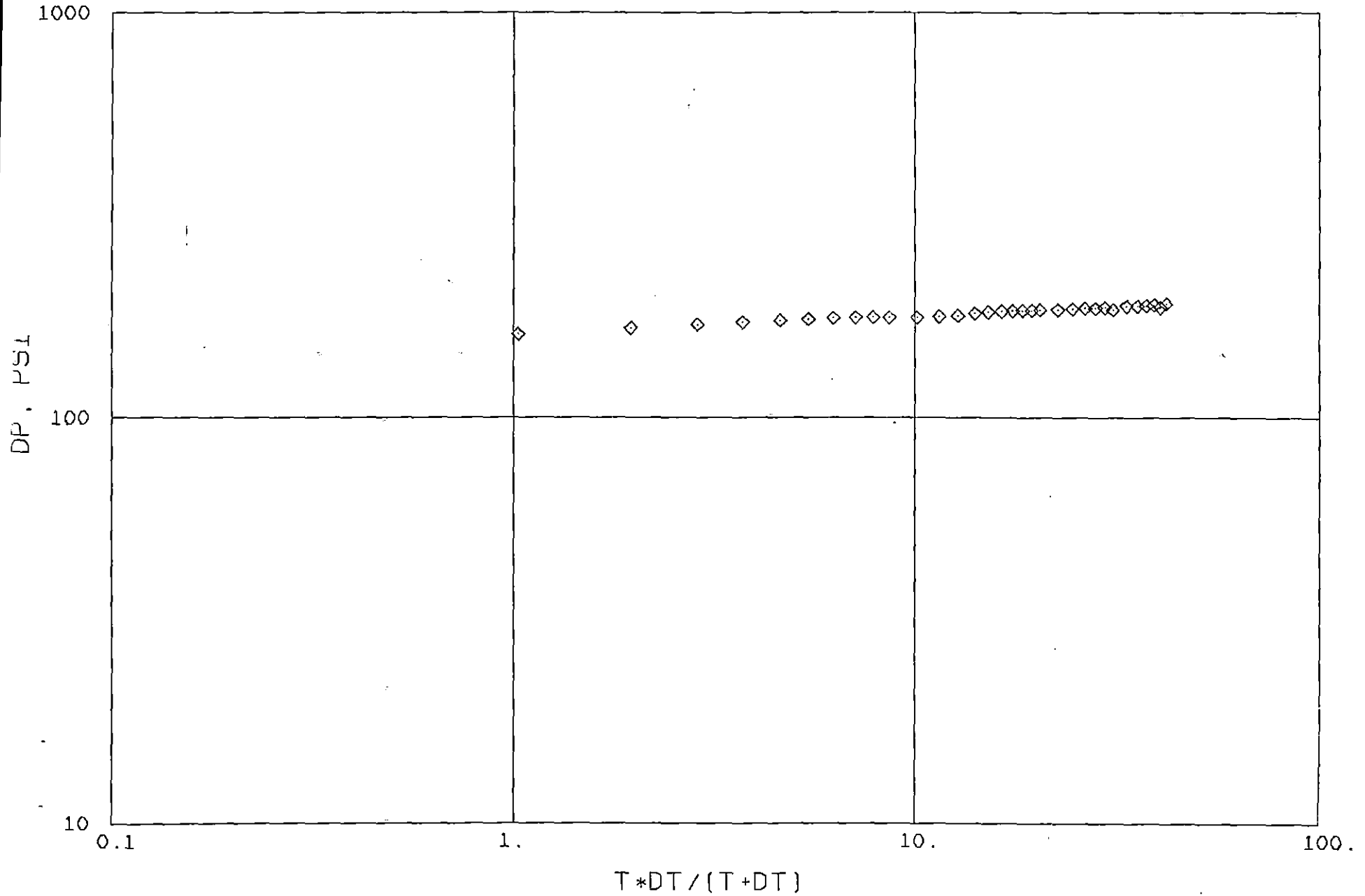
FROM OPERATIONAL
JUN 2 8 1985
RECORDED

$T*DT/(T+DT)$

TICKET NO 64989700

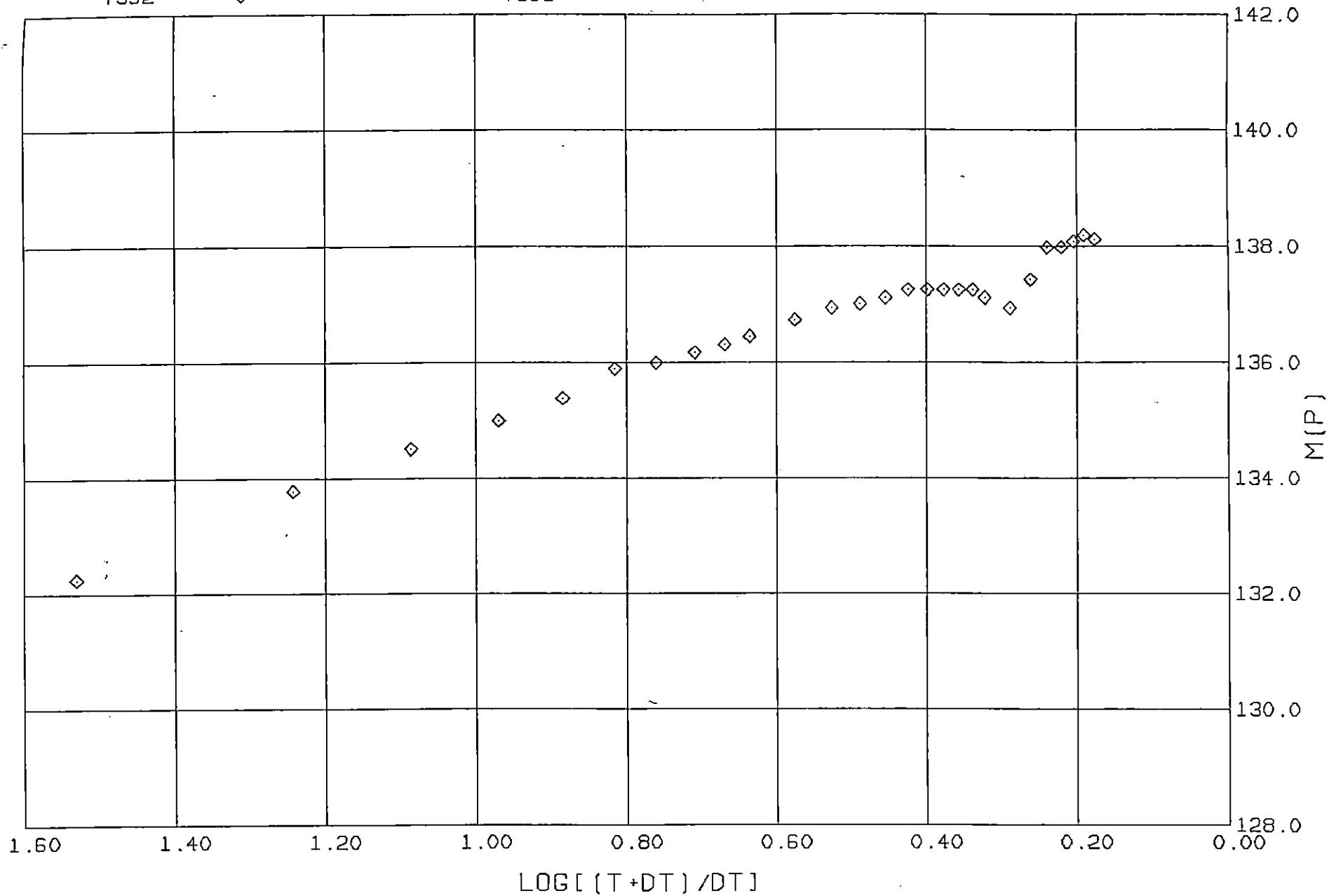
GAUGE NO CIP 1 2
7352

GAUGE NO CIP 1 2
7351 \diamond



GAUGE NO CIP 1 2
7352 ◇

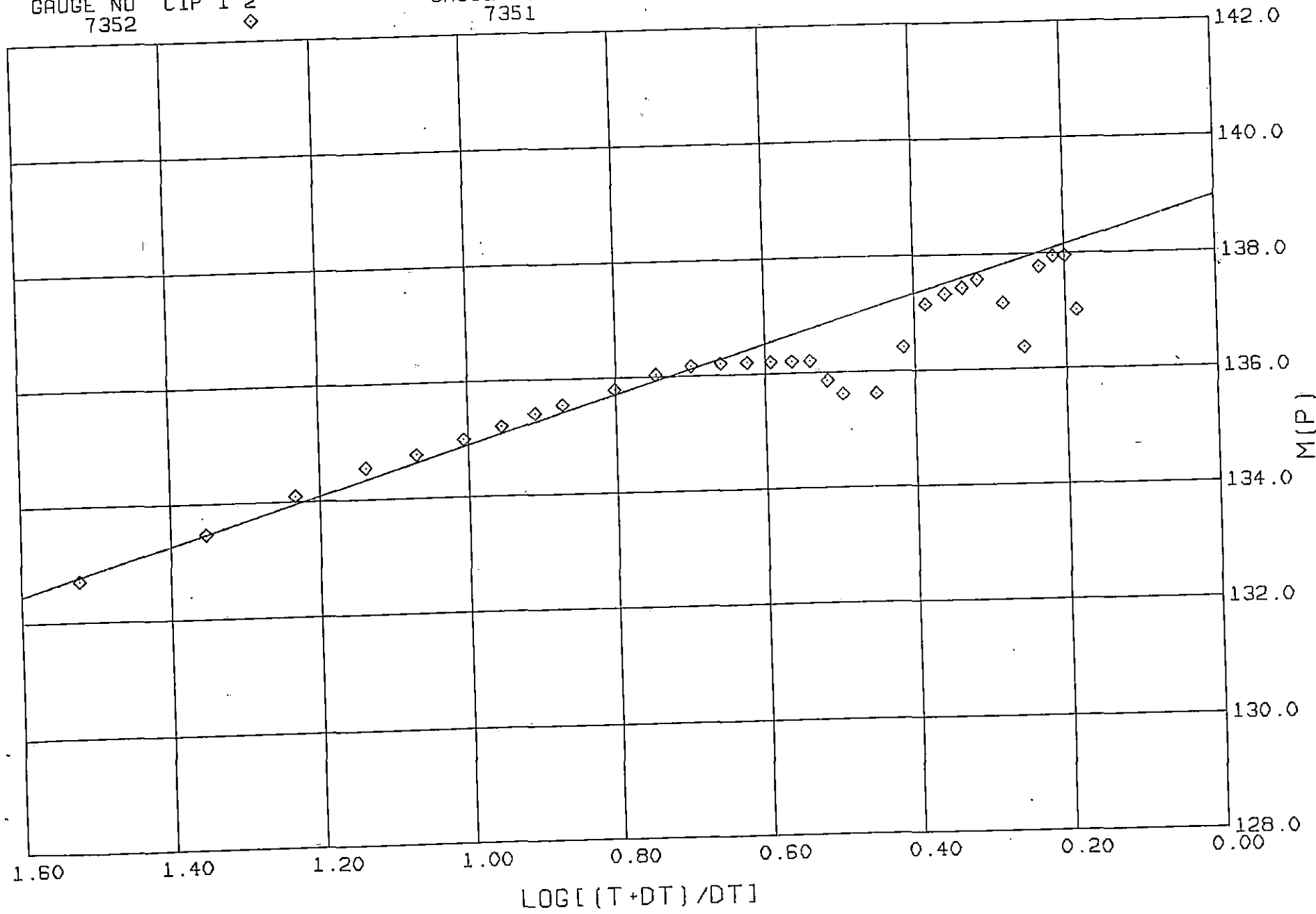
GAUGE NO CIP 1 2
7351



TICKET NO 64989700

GAUGE NO CIP 1 2
7352 ◇

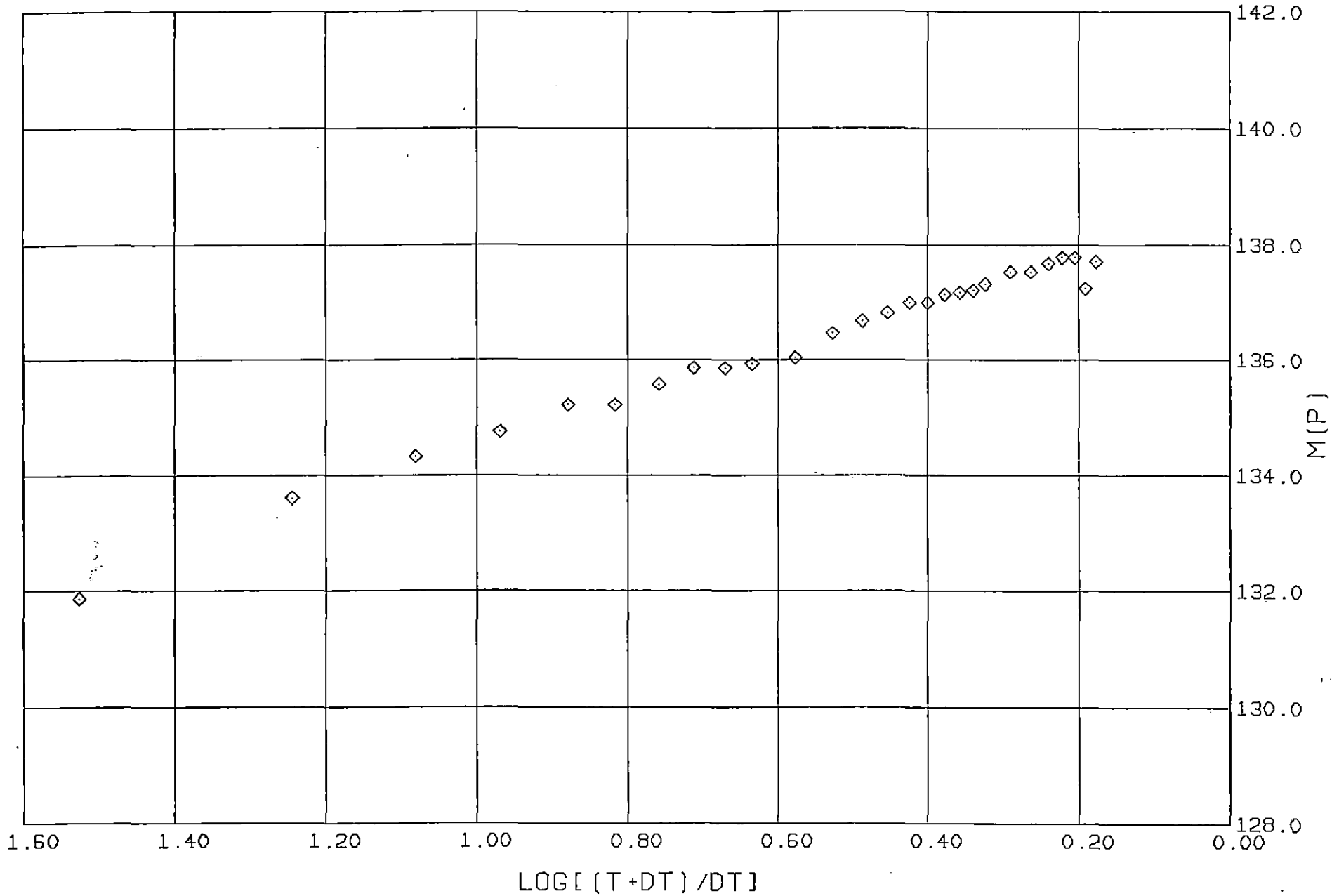
GAUGE NO CIP 1 2
7351



TICKET NO 64989700

GAUGE NO CIP 1 2
7352

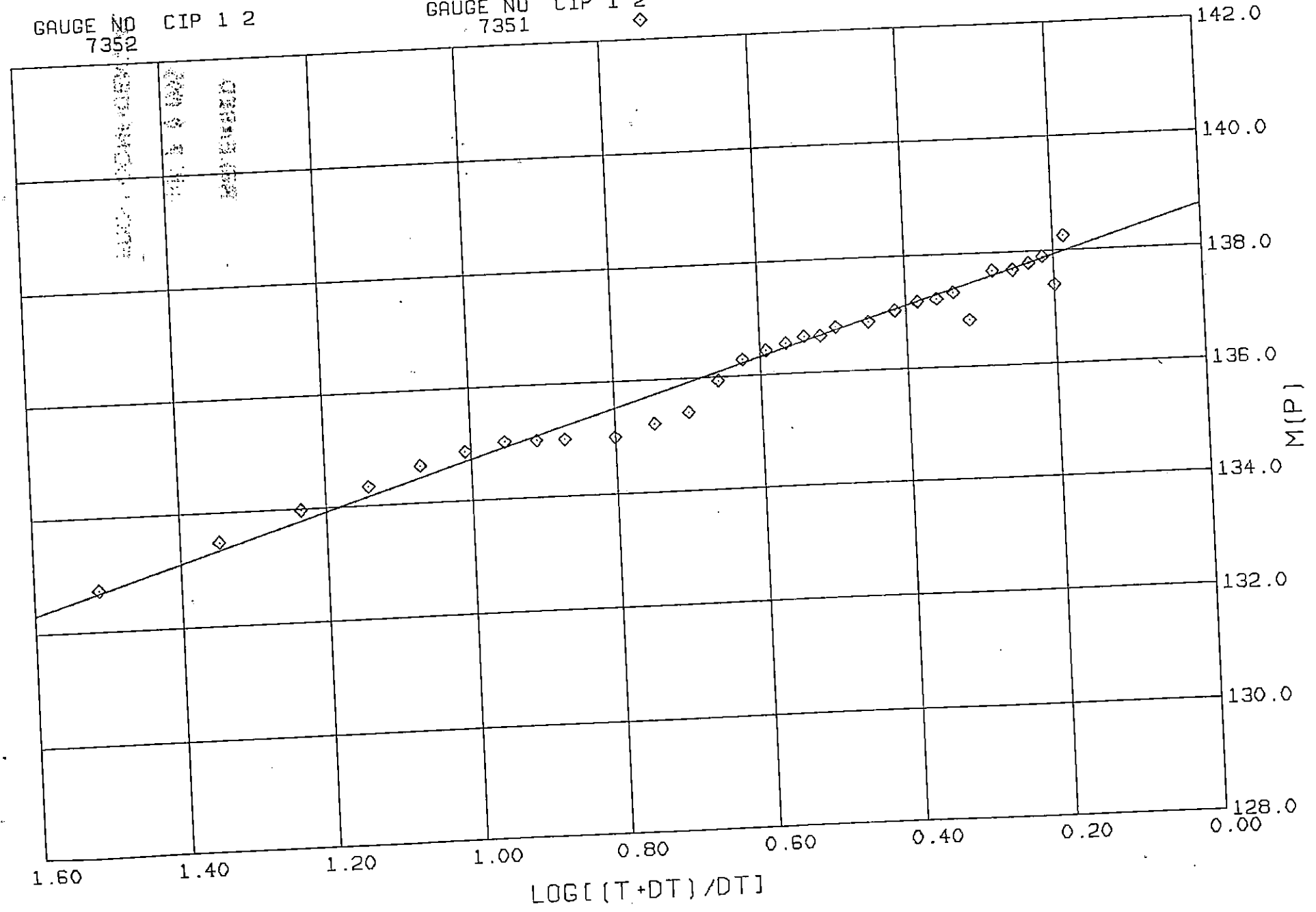
GAUGE NO CIP 1 2
7351 \diamond



TICKET NO 64989700

GAUGE NO CIP 1 2
7352

GAUGE NO CIP 1 2
7351 \diamond



SUMMARY OF RESERVOIR PARAMETERS

USING HORNER METHOD FOR GAS WELLS

GAS GRAVITY _____	0.500	TEMPERATURE _____	105.0 °F
NET PAY _____	0.0 ft	POROSITY _____	10.0 %
RADIUS OF WELL BORE _____	0.328 ft	VISCOSITY _____	0.013 cp
GAS DEVIATION FACTOR _____	0.866	GAS PROPERTIES AT _____	1249.0 p sig
SYSTEM COMPRESSIBILITY _____	721.49	$\times 10^{-6}$ vol/vol/p si	

	7352	7351					
GAUGE NUMBER	7352	7351					
GAUGE DEPTH	4041.5	4079.0					
FLOW AND CIP PERIOD	2	2					UNITS
FINAL FLOW PRESSURE	1039.3	1054.8					p sig
TOTAL FLOW TIME	64.1	64.1					min
CALC. STATIC PRESSURE P*	1249.5	1248.5					p sig
EXTRAPOLATED PRESSURE $m(P^*)$	139.0	138.7					$\frac{m p s i^2}{c p}$
ONE CYCLE PRESSURE $m(P_{10})$	134.9	134.7					$\frac{m p s i^2}{c p}$
PRODUCTION RATE Q	6340.0	6340.0					MCFD
FLOW CAPACITY kh	1441.21	1462.16					md-ft
PERMEABILITY k	65.5094	66.4620					md
SKIN FACTOR S	5.4	4.7					
DAMAGE RATIO DR	1.8	1.7					
INDICATED RATE MAX AOF ₁	21017.7	22725.2					MCFD
INDICATED RATE MIN AOF ₂	11543.5	12003.2					MCFD
THEORETICAL RATE DR x AOF ₁	38730.2	39177.2					MCFD
THEORETICAL RATE DR x AOF ₂	21271.7	20693.0					MCFD
RADIUS OF INVESTIGATION r _i	272.2	274.2					ft

REMARKS: CALCULATED RESULTS ARE EFFECTIVE TO GAS PRODUCTION. RESULTS ARE SLIGHTLY QUESTIONABLE DUE TO A STABILIZED RATE NOT BEING OBTAINED PRIOR TO CLOSING THE TOOL FOR THE FINAL CIP BUILDUP.

RELEASED

JUN 2 8 1995

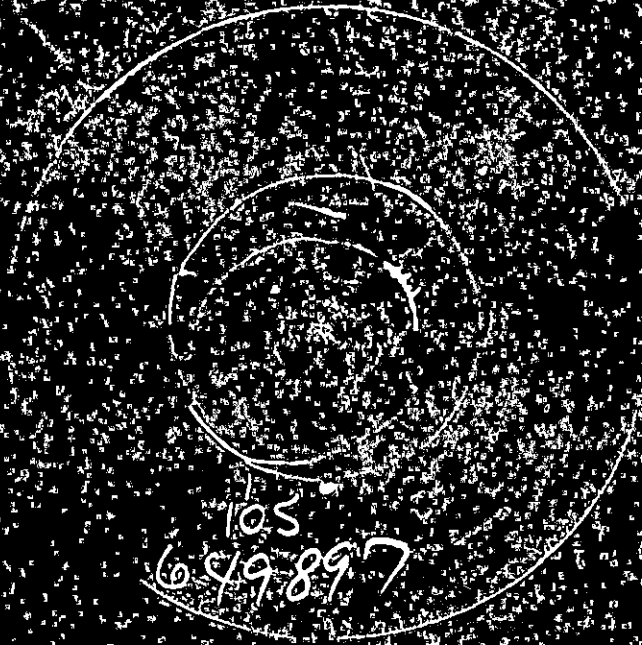
FROM CONFIDENTIAL

NOTICE:

BECAUSE OF THE UNCERTAINTY OF VARIABLE WELL CONDITIONS AND THE NECESSITY OF RELYING ON FACTS AND SUPPORTING SERVICES FURNISHED BY OTHERS, HAS IS UNABLE TO GUARANTEE THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HAS. HAS PERSONNEL WILL USE THEIR BEST EFFORTS IN GATHERING SUCH INFORMATION AND THEIR BEST JUDGMENT IN INTERPRETING IT BUT CUSTOMER AGREES THAT HAS SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION EXCEPT WHERE DUE TO HAS GROSS NEGLIGENCE OR WILLFUL MISCONDUCT IN THE PREPARATION OF FURNISHING OF INFORMATION.

EQUATIONS FOR DST LIQUID WELL ANALYSIS

TEMPERATURE RECORDER CHART



10° each circle

Capacity m

Average Effective Permeability $k' = \frac{kh}{h} \quad md$

Skin Factor $S = 1.151 \left[\frac{m(P^*) - m(P)}{m} \cdot \text{LOG} \left(\frac{k(\nu 60)}{\phi \mu c r_w^2} \right) + 3.23 \right]$

Damage Ratio $DR = \frac{m(P^*) - m(P)}{m(P^*) - m(P) - 0.87 mS}$

Indicated Flow Rate (Maximum) $AOF = \frac{Q_s m(P^*)}{m(P^*) - m(P)} \quad MCFD$

Indicated Flow Rate (Minimum) $AOF = Q_s \sqrt{\frac{m(P^*)}{m(P^*) - m(P)}} \quad MCFD$

Approx. Radius of Investigation $r = 0.032 \sqrt{\frac{k(\nu 60)}{\phi \mu c}} \quad ft$

Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HRS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by HRS. HRS personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but customer agrees that HRS shall not be responsible for any damages arising from the use of such information except where due to HRS gross negligence or willful misconduct in the preparation or furnishing of information.

JOB LOG FORM 2013 R-4

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
ANASARKO PGR.		AE-1		USA		5 1/2 DWLS		574859	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1930								Called - Requested 2200
	2300								On Location - Rig up - LDDP
	2400								Rig up Francis Casing
	0200								Ran 5 1/2 DWL - Shut Down 3HE - no lights on Rig
	1230								15610 - Hand up To Mud Pump
	1245								Home Calculations - Safety Mtg.
	1310								Shut Mud Pump Down Hand up To Cas Line
	1315	5	20			100			Pump 20 BBL 2% KEL
	1319	5	30			100			Pump 30 BBL Mud Flush
	1325	5	20			100			Pump 20 BBL 2% KEL
	1329	5	17.5			100			Pump 50 SK Lead @ 12.5'
	1333	6	36			130			Pump 125 SK Tail @ 14.6'
	1338								Security Mtg. Shut Down - Drop Pumps - Wash Pumps & Lines
	1342	6	30			50			Displace w/ 1/2" KCC
	1347	5.5				75			Start Mud Displacement MAY 11
	1358	5.5-2	65			50/75			Slow Rate CONFIDENTIAL
	1402		75			50/100			Pump Down - Receive Pumps - First Working
	1405								Drop Opening Device / Load Closing Pipe
	1420		4			2/1000			Pump To open Tool - Opened @ 1100 PSI - Pumped 4 BBL mud
	1423								Shut Down - Mix Mud Flush For 2nd Stage
	1436	5	10			100			Pump 10 BBL 2% KEL
	1438	5	30			100			Pump 30 BBL Mud Flush
	1444	5	10			100			Pump 10 BBL 2% KEL
	1446	5	45			100			Pump Survey @ 12.5'
	1455								Security Mtg. Shut Down To Drop Cement
	1500	3				50			Pumps - DID not work -
	1520	3-2	6.5			275/230			Displace w/ 1/2" - RESTRICTED RATE - Blockage in Flow Tool
	1535		75			300/1100			Slow Rate
									2.1% Cement Tool Closed @ 1100 PSI
									Received Pumps - Lockdown
									Released From Location - Rig Down

ORIGINAL

RELEASED

JUN 28 1995

FROM CONFIDENTIAL

CONFIDENTIAL

RECEIVED

KANSAS CORPORATION COMMISSION

MAY 12 1994



CHARGE TO: **ANADARKO Petroleum**
 ADDRESS: **MOORE**
 CITY, STATE, ZIP CODE: **MAY 11 1994**
CONFIDENTIAL

COPY **ORIGINAL** No. **574859 - X**
 TICKET
 PAGE 1 OF 2

FORM 1906 R-13

SERVICE LOCATIONS 1. 25540	WELL/PROJECT NO. AZ-1	LEASE USA	COUNTY/PARISH MOORE	STATE Ks	CITY/OFFSHORE LOCATION	DATE 2-10-94	OWNER SAME
2. 25535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE JOB? <input type="checkbox"/> YES <input type="checkbox"/> SALES <input checked="" type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO. NOASEMAN	SHIPPED VIA TRUCK	DELIVERED TO LOCATION	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	01-02	01	035				
REFERRAL LOCATION	INVOICE INSTRUCTIONS NOT STG						

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	RELEASED	DATE	QTY.		UNIT PRICE		AMOUNT
		LOG	ACCT	DF				QTY.	U/M	QTY.	U/M	
000-117					MILEAGE			65	MI	2	75	357.5
007-013					1ST STAGE PUMPING			6	HR	4525		1635.0
007-161					2ND STAGE PUMPING			6	HR			1295.0
018-315					MYO FEWSH			20	6IN		65	1138.0
314-163					CLA-FIX II			5	1/2AL		24.00	120.0
12A	825.205				GUIDE STAKE			1	EA		5.2	121.0
24A	815.19251				INSERT FRONT			1	EA			110.0
27	815.19311				FILLUP			1	EA			55.0
46	806.60022				CENTRALIZERS			20	EA		44.00	880.0
71	813.20300				DU CEMENT			1	EA			2450.0
75	813.16510				DU PLS SET			1	EA			460.0
320	800.8883				RISER			1	EA			110.0

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: **X [Signature]**

DATE SIGNED: **2-10-94** TIME SIGNED: **2:00** A.M. P.M.

do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 9231
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?				
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 16,073
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): **John Still**
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): **X [Signature]**
 HALLIBURTON OPERATOR/ENGINEER: **[Signature]** EMP # **61223**
 HALLIBURTON APPROVAL: **[Signature]**

CEMENTING SERVICE REPORT



WF

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 5897	DATE Jan 29/94
STAGE DS	DISTRICT UKS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. USA AE1	LOCATION (LEGAL) Sec. 20-34s-43W	RIG NAME: Norman #2
FIELD-POOL Hugoton	FORMATION Surface	WELL DATA:
COUNTY/PARISH Morton	STATE KANSAS	API. NO.
NAME Anadarko	CONFIDENTIAL	
AND		
ADDRESS	ZIP CODE	
SPECIAL INSTRUCTIONS Soft Cmt 8 7/8 surface CSG AS Directed By customer		
NOTE: Include Footage From Ground Level To Head In Disp. Capacity		

ORIGINAL

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE PSI	CASING WEIGHT + SURFACE AREA (3.14 x R ²)	PSI
PRESSURE LIMIT PSI	BUMP PLUG TO PSI	ROTATE RPM	RECIPROCAT FT
No. of Centralizers 11		TOOL TYPE DEPTH	

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: ADAP	DATE: 1/30	TIME: 1700	DATE: 1/30	TIME:	DATE:	
0001 to 2400	NA										
20:52		950	6		5.8	H ₂ O	8.33	PRE-JOB SAFETY MEETING psi test done			
22:54		260	50		5.8	Cmt	113.6	H ₂ O Ahead			
23:03		980	42		5.8	Cmt	15.6	Lead cmt			
23:12		0			0			Tail cmt			
23:13		170	74.5		5.8	H ₂ O	8.33	Shut Down, Drop Plug			
23:28		240	65		2	H ₂ O	8.33	Displace			
23:28		300	74.4		1.8			Lower Ft.			
23:28		0			0			Supply			
								Felt meter			
								End 300			

RECEIVED

KANSAS CORPORATION COMMISSION

MAY 12 1994

RELEASED

KCC

CONSERVATION DIVISION
WICHITA, KS

JUN 2 8 1995

MAY 11

CONFIDENTIAL

FROM CONFIDENTIAL

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	200	1.43	50/50 700/H + 4% D80 + 2% S1 + 1/4" 1/2k D89				50.9	13.6
2.	200	1.18	H + 2% S1				42.0	15.4
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN:
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	<input type="checkbox"/> CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO	
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	74.5 Bbls
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	
			Jim Barkow	Greg Black	

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

OILFIELD SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
5879

DSI SERVICE LOCATION NAME AND NUMBER
Ulysses KS.

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES

CUSTOMER'S NAME

Anadarko ORIGINAL

ADDRESS

CONFIDENTIAL

CITY, STATE AND ZIP CODE

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS in accordance with the general terms and conditions as printed on the reverse side of this service order and/or attached to this service order. This service order is subject to alternative dispute resolution.

WORKOVER NEW WELL OTHER W N API OR IC NUMBER

IMPORTANT SEE OTHER SIDE FOR TERMS & CONDITIONS
ARRIVE LOCATION MO. DAY YR. TIME
JAN 29 94 1200

SERVICE ORDER I authorize work to begin per service instructions in accordance with terms and conditions printed on the reverse side of this form and/or attached to this form and represent that I have authority to accept and sign this order.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

*Sally cmt 8 5/8 surface csg
As Directed by Customer*

JOB COMPLETION MO. DAY YR. TIME
JAN 94

SERVICE RECEIPT I certify that the materials and services listed were received and all services performed in a workmanlike manner.

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE **KANSAS** CODE **MO** COUNTY/PARISH **Morton** CODE CITY

WELL NAME AND NUMBER/ JOB SITE **USA AC1** LOCATION AND POOL/ PLANT ADDRESS **Sec 20-31-43W** SHIPPED VIA **Dowell**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
102871-015	Pump Chg	EA	1	1050.00	1050.00
49102-000	Delivery chg	TM	1110	.94	1043.40
47100-000	Service Cg	P3	426	1.28	548.28
59697-000	PACK	EA	1	150.00	150.00
59200-002	Milage	mi	60	2.80	168.00
48601-000	Cmt. And	EA	1	68.00	68.00
40015-000	11 cmt	P3	300	7.99	2397.00
45008-000	21cpg 74	P2	100	4.22	422.00
45004-050	D20 Cell	#	672	.16	107.52
67005-001	SI Calch	#	712	.39	277.68
44003-085	D29 PAKE	#	50	1.70	85.00
53003-085	8 5/8 Glid shoe	EA	1	270.00	270.00
56011-085	8 5/8 Auto fill insert float	EA	1	350.00	350.00
46702-085	8 5/8 Centralizes	EA	11	79.00	869.00
57499-001	8 5/8 1.00 plug	EA	105	1.05	105.00
	Thread dock	EA	27	27.00	27.00
<p style="text-align: center;">RELEASED 18.5 JUN 2 8 1995</p> <p style="text-align: center;">FROM CONFIDENTIAL</p> <p style="text-align: center;">SERVICES ORDER RECEIVED</p> <p style="text-align: center;">KANSAS CORPORATION COMMISSION</p>					<p style="text-align: center;">RECEIVED</p> <p style="text-align: center;">MAY 11</p> <p style="text-align: center;">CONFIDENTIAL</p>
<p>REB EST. 9869.88</p> <p style="text-align: center;">MAY 12 1994</p>					<p style="text-align: center;">CONFIDENTIAL</p>

CONSERVATION DIVISION WICHITA, KS

SUB TOTAL

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

REMARKS:

Thankyou for using Dowell

STATE % TAX ON \$

COUNTY % TAX ON \$

CITY % TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE

TOTAL \$

Greg Black