

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

ORIGINAL

API NO. 15- 129-21,116 -00-00

County Morton

C - SE - NE - NW Sec. 2 Twp. 33S Rge. 40 X E
W

733 Feet from S(circle one) Line of Section

1716 Feet from E(circle one) Line of Section

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

Lease Name US Government "C" Well # 2

Field Name Stirrup

Producing Formation Morrow "D"

Elevation: Ground 3215.8 KB NA

Total Depth 5960 PBDT 5377

Amount of Surface Pipe Set and Cemented at 1510 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan API 2
(Data must be collected from the Reserve Pit)

Operator: License # 4549

Name: Anadarko Petroleum Corporation

Address P. O. Box 351

City/State/Zip Liberal, KS 67905-0351

Purchaser: Texaco Trading & Transportation

Operator Contact Person: J. L. Ashton

Phone (316) 624-6253

Contractor: Name: Gabbert-Jones, Inc.

License: 5842

Wellsite Geologist: NA

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD SIGW Temp. Abd.

 Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

 Deepening Re-perf. Conv. to

 Plug Back PBDT

 Commingled Docket No. _____

 Dual Completion Docket No. _____

 Other (SWD or Inj?) Docket No. _____

4-11-92 4-26-92 5-29-92

Spud Date Date Reached TD Completion Date

Drilling Fluid Content 800 ppm Fluid volume 5000 bbls

Disposal Method used hauled offsite

Location of fluid disposal if hauled offsite: _____

Operator Name Anadarko Petroleum Corporation

Lease Name Ratzlaff E-1 License No. 4549

SE Quarter Sec. 3 Twp. 33S S Rng. 40 X W

County Morton Docket No. _____

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 Beverly J. Williams
Beverly J. Williams
Title Engineering Technician Date 6-17-92

Subscribed and sworn to before me this 17 day of June, 19 92.

Notary Public Cheryl Steers

Date Commission Expires _____

CHERYL STEERS
Notary Public - State of Kansas
My Appt. Expires 6-1-93

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)

Operator Name Anadarko Petroleum Corporation Lease Name US Government "C" Well # 2

Sec. 2 Twp. 33S Rge. 40
 East
 West

County Morton

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SEE ATTACHMENT		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run:				

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#	1510	Poz/Class H	825	4% tot gel 2%cc
Production	7 7/8	5 1/2	15.50#	5421	Poz/Thickset	155	1/2#/sx flocele 5# sx gel, 0.3% Halad 344
	FO Tool			2587	Pozmix	250	2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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
	5280-5268, 5262-5256, 5256-5248	A/2600 gals 7 1/2% HCL acid. 5248-5280
	w/one hole per 2'	

TUBING RECORD		Size	Set At	Packer At	Liner Run	Production Interval	
		2 3/8	5256	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5248-5280	
Date of First, Resumed Production, SWD or Inj.		Producing Method					
5-29-92		<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		
	151	0	0	-	36.6		

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

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

ATTACHMENT

ORIGINAL

US GOVERNMENT "C" No. 2
Section 2-33S-40W
Morton County, Kansas

RELEASED

JUN 17
CONFIDENTIAL

JUN 15 1993

FROM CONFIDENTIAL

<u>NAME</u>	<u>TOP</u>
B/Stone Corral	1518
Chase	2224
Krider	2244
Wifield	2290
Toward	2350
Ft. Riley	2414
Florence	2462
Wreford	2505
Council Grove	2524
Admire	2770
Wabaunsee	2958
Topeka	3204
Huebner	3700
Toronto	3715
Lansing	3822
Kansas City	4194
Mramaton	4494
Cherokee	4648
Morrow	5104
T/Morrow "D"	5246
T/Lower Morrow	5382
T/Keyes	5520
Chester	5614
St. Genevieve	5648
St. Louis	5770
TD	5960

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 22 1992

CONSERVATION DIVISION
WICHITA, KS

GABBERT-JONES, INC.
 WICHITA, KANSAS
 DRILLERS' WELL LOG

ORIGINAL

RELEASED

JUN 15 1993

FROM CONFIDENTIAL

JUN 17
 CONFIDENTIAL

WELL NAME: US GOVERNMENT "C"#2
 SEC: 2-33S-40W
 MORTON COUNTY, KANSAS

COMMENCED: 4-11-92

COMPLETED: 4-27-92

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth		Formation	Remarks
From	To		
0	1260	sand-redbed	
1260	2002	redbed	Ran 37jts of 24#8 5/8" csg LD @ 1510'w/625sks
2002	2389	shale-lime	50/50 posmix 2%CC
2389	2639	lime-shale	200sks class H 2%CC
2639	3084	shale-lime	PD @ 10:15pm 4-12-92
3084	3280	lime-shale	
3280	3705	shale-lime	
3705	3852	lime-shale	
3852	4120	shale-lime	Ran 130jts 15 1/2 #5 1/2" csg LD @ 5420'w/50sks 65/35
4120	4207	lime-shale	Posmix 105sks fixset
4207	4317	shale-lime	1/4#FS-.3% Howcolid 344
4317	4387	lime-shale	PD @ 8:15pm 4-27-92
4387	4534	shale-lime	RR @ 9:15pm 4-27-92
4534	4617	lime-shale	
4617	4903	shale-lime	
4903	4994	lime-shale	
4994	5084	shale-lime	
5084	5262	lime-shale	
5262	5285	shale-lime	
5285	5301	lime-shale	
5301	5371	shale-lime	
5371	5568	lime-shale	
5568	5709	shale-lime	
5709	5778	lime-shale	
5778	5900	shale-lime	

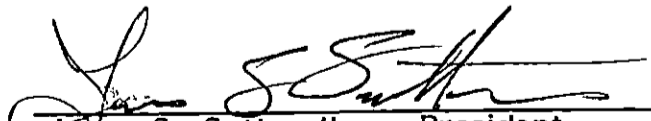
RECEIVED
 KANSAS CORPORATION COMMISSION
 JUN 22 1992
 CONSERVATION DIVISION
 WICHITA, KS

5900-TD

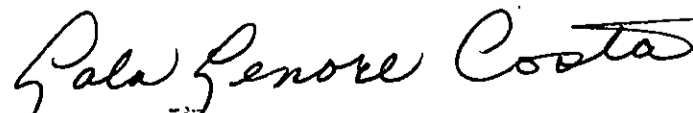
STATE OF KANSAS
 COUNTY OF SEDGWICK

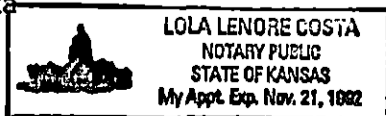
) I, the undersigned, being duly sworn on oath,
) state that the above Drillers' Well Log is true
) and correct to the best of my knowledge and
 belief and according to the records of this office.

GABBERT-JONES, INC.


 James S. Sutton, II. -- President

Subscribed & sworn to before me this
 APRIL 30, 1992


 Lola Lenore Costa



My commission expires Nov. 21, 1992

ORIGINAL

RELEASED

JUN 15 1992

JUN 17
CONFIDENTIAL

FROM CONFIDENTIAL

ANADARKO PETROLEUM CORPORATION

LEASE : U.S. GOVERNMENT

WELL NO. : C-2

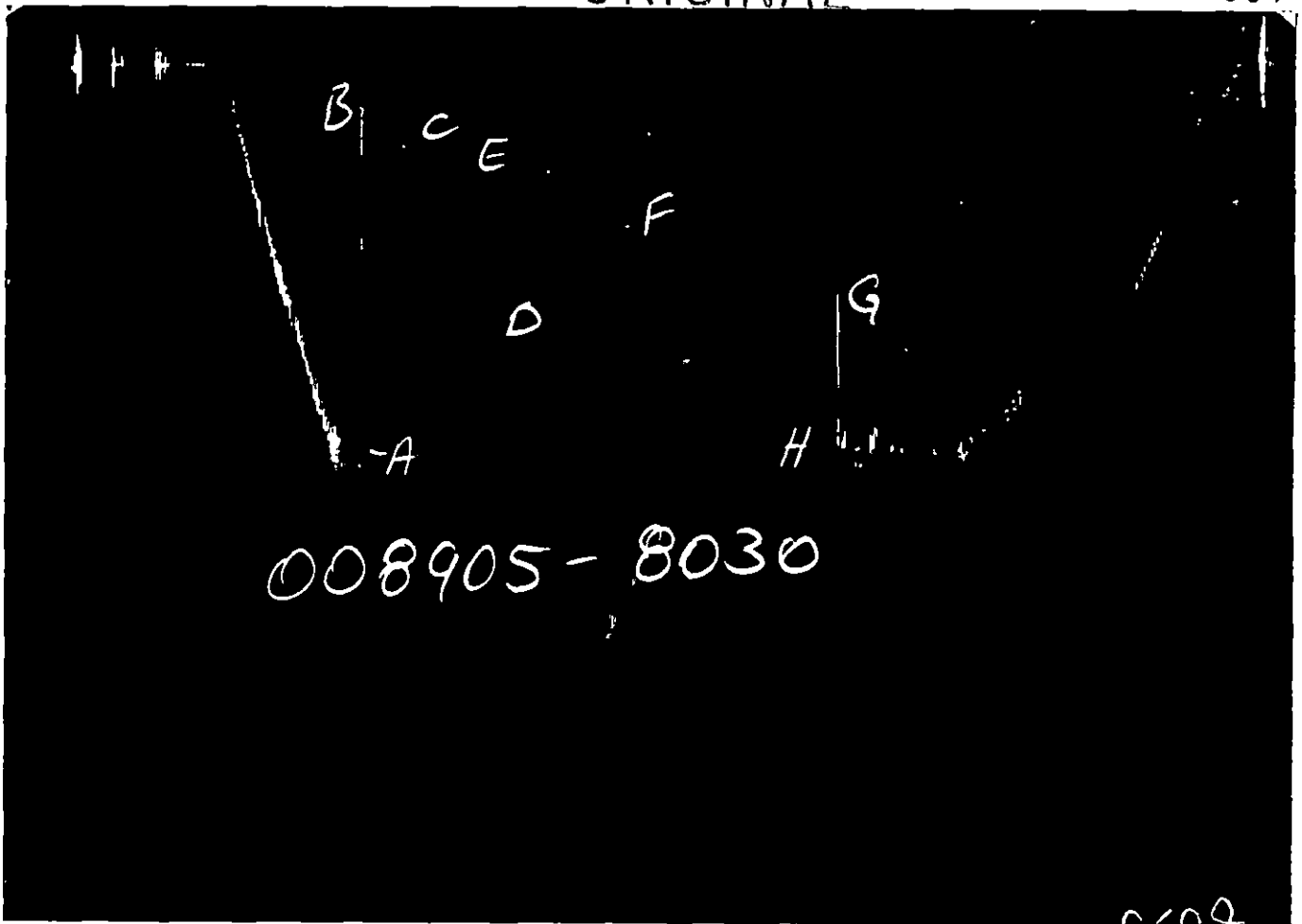
TEST NO. : 1

TICKET NO. 00890500
01-MAY-92
LIBERAL

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 22 1992
CONSERVATION DIVISION
WICHITA, KS

LEGAL LOCATION: 2-335-401
 SEC: 1P - RING
 FIELD AREA: STIRRUP
 COUNTY: MORTON
 STATE: KANSAS SM

U.S. GOVERNMENT
 LEASE NAME: C-2
 WELL NO.: C-2
 TEST NO.: 1
 5250.4 - 5285.0
 TESTED INTERVAL
 ANADARKO PETROLEUM CORPORATION
 LEASE OWNER/COMPANY NAME

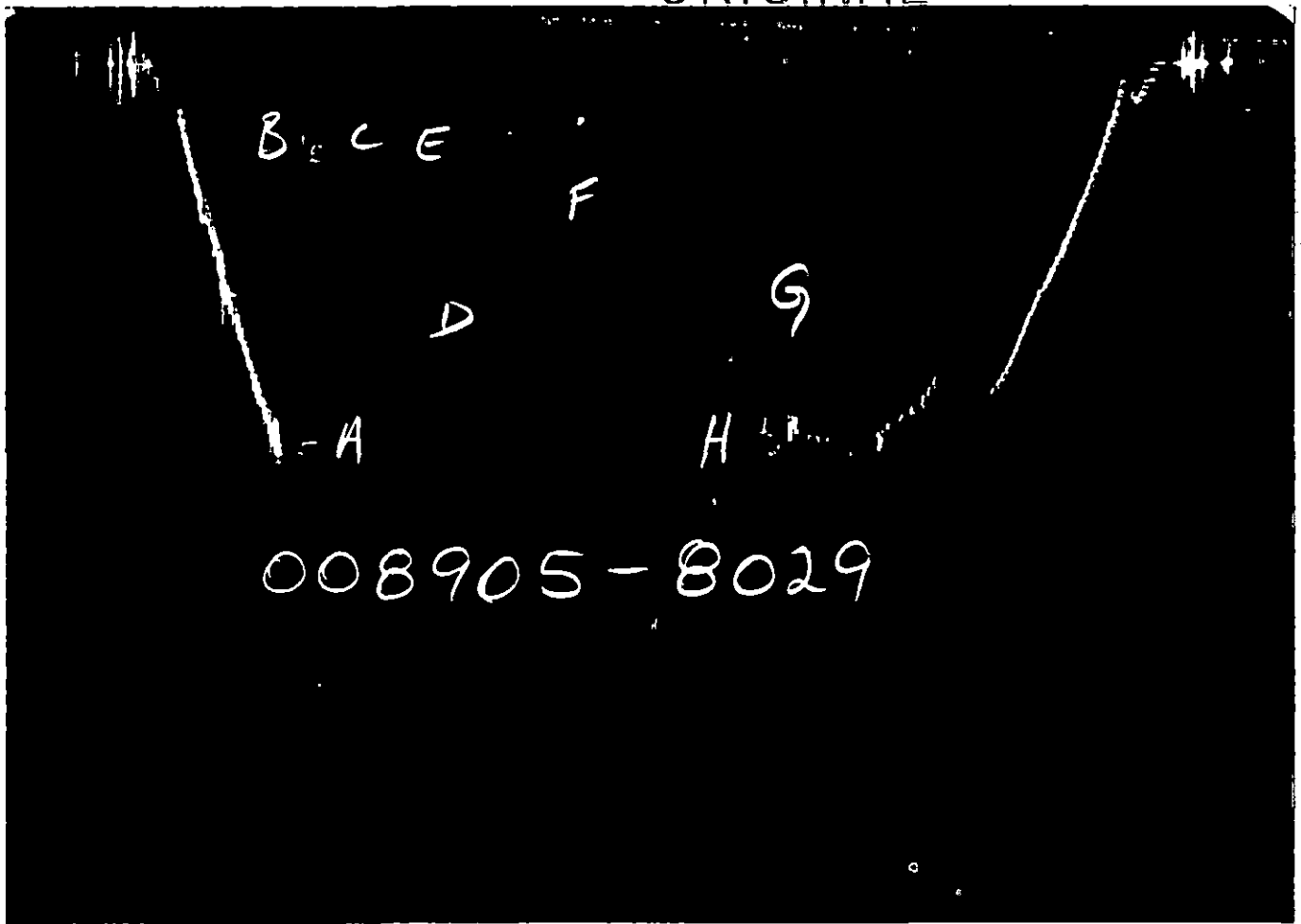


GAUGE NO: 8030 DEPTH: 5230.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2555	2481.4			
B	INITIAL FIRST FLOW	301	287.9			
C	FINAL FIRST FLOW	502	507.3		28.6	F
C	INITIAL FIRST CLOSED-IN	502	507.3	111.15	60.0	C
D	FINAL FIRST CLOSED-IN	1560	1487.1		60.3	C
E	INITIAL SECOND FLOW	601	630.4			
F	FINAL SECOND FLOW	1063	1039.3	62.0	62.3	F
F	INITIAL SECOND CLOSED-IN	1063	1039.3			
G	FINAL SECOND CLOSED-IN	1527	1482.9	121.0	121.8	C
H	FINAL HYDROSTATIC	2555	2446.4			

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 22 1992
CONSERVATION DIVISION
WICHITA, KS



008905-8029

GAUGE NO: 8029 DEPTH: 5283.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2383	2481.3			
B	INITIAL FIRST FLOW	422	491.1			
C	FINAL FIRST FLOW	592	607.1	30.0	28.6	F
C	INITIAL FIRST CLOSED-IN	592	607.1			
D	FINAL FIRST CLOSED-IN	1467	1518.8	60.0	60.3	C
E	INITIAL SECOND FLOW	583	636.2			
F	FINAL SECOND FLOW	683	668.6	62.0	62.3	F
F	INITIAL SECOND CLOSED-IN	1027	1068.6			
G	FINAL SECOND CLOSED-IN	1436	1519.9	121.0	121.8	C
H	FINAL HYDROSTATIC	2383	2448.0			

JUN 17 1983
 CONFIDENTIAL
 RECEIVED
 KANSAS COMMISSION

JUN 22 1992

RELEASED

INFORMATION DIVISION
 WICHITA, KS

JUN 15 1993

FROM CONFIDENTIAL

EQUIPMENT & HOLE DATA

ORIGINAL

FORMATION TESTED: UPPER MORROW-D SAND

NET PAY (ft): 30.0

GROSS TESTED FOOTAGE: 35.6

ALL DEPTHS MEASURED FROM: GROUND LEVEL

CASING PERFS. (ft): RELEASED

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 3220.0 1111 1 5 1003

TOTAL DEPTH (ft): 5286.0

PACKER DEPTH(S) (ft): 5245, 5250 FROM CONFIDENTIAL

FINAL SURFACE CHOKE (in): 0.12500

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.00

MUD VISCOSITY (sec): 45

ESTIMATED HOLE TEMP. (°F):

ACTUAL HOLE TEMP. (°F): 140 @ 5280.9 ft

TICKET NUMBER: 00890500

DATE: 04-23-92 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP: LIBERAL

TESTER: L.D. GRANT

WITNESS: JOHN SHILLING
JIM BARLOW

DRILLING CONTRACTOR: GABBERT AND JONES DRILLING COMPANY

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
PIT	1.930 @ 78 °F	2874 ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm
	@ °F	ppm

SAMPLER DATA

Psig AT SURFACE: 760.0

cu.ft. OF GAS: 1.090

cc OF OIL: 1700.0

cc OF WATER:

cc OF MUD:

TOTAL LIQUID cc: 1700.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 36.6 @ 60 °F

GAS/OIL RATIO (cu.ft. per bbl): 102

GAS GRAVITY:

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

5228.5 FEET OF GASSY OIL

NOTE: GASSY OIL TO THE SURFACE AT END OF SECOND FLOW (92 MINUTES TOTAL FLOW).

MEASURED FROM TESTER VALVE

REMARKS :

RECEIVED

KANSAS CORPORATION COMMISSION

TIGHT HOLE INFORMATION

JUN 17

JUN 22 1992

CONFIDENTIAL

CONSERVATION DIVISION WICHITA, KS

ORIGINAL

TYPE & SIZE MEASURING DEVICE: .125" MERLA ORIFICE					TICKET NO: 00890500
TIME	CHOKESIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
04-23-92					
0030					CALLED OUT. REQUESTED NOW
0245					ON LOCATION. RIG RUNNING SURVEY
					ON WIRELINE
0315					RIG STARTED TRIPPING OUT OF HOLE
0555					RIG OUT OF HOLE
0610					STARTED PICKING UP DST TOOLS
0650					TOOL MADE UP IN TABLE, RIG
					STARTED TRIPPING IN HOLE
0836					TOOL ON BOTTOM, 88,000# DOWN
					58,000# SET DOWN
0838	BH				TOOL OPENED BLOWING 6" DEEP
					IN BUCKET OF WATER
0839	BH				BLOWING OFF BOTTOM OF 5 GALLON
					BUCKET OF WATER
0843	.25	17	46		TURNED TO PIT THROUGH .25" X
					6" CHOKE (POSITIVE)
0848	.25	38	78		FLOW INCREASING
0853	.25	41	81		FLOW LEVELING OFF
0854	.25	42	83		42 PSI MAX...DROPPING OFF
0908	.25	35	73		CLOSED TOOL
1008	.25	5+			OPENED TOOL BLOWING, 5 PSI
					TRIPPING
1013	.25	12			FLOWING AT 12 PSI, STARTED
					FALLING OFF
1018	.25	10			FLOW FALLING
1029	.25	7			CHANGED OVER TO MERLA TESTER
					WITH .125 PLATE
1030	.125	13			OPENED WITH .125" PLATE
1045	.125	15	12		FLOW STABILIZED
1053	.125	16	12.3		SLIGHT INCREASE
1058	.125	17	12.8		SLIGHT INCREASE
1103	.125	30	18.6		PRESSURE INCREASING
1108	.125	35	20.4		STARTED DROPPING BACKOFF
1110	.125	32	19.4		CLOSED TOOL
1115					PUT IN 2" FULL OPENING TO BLEED
					OFF DRILL PIPE

RELEASED

JUN 15 1992

FROM CONFIDENTIAL

JUN 17

CONFIDENTIAL

RECEIVED
 KANSAS CORPORATION COMMISSION
 JUN 22 1992
 OPERATIONS DIVISION
 WICHITA, KS

ORIGINAL

TYPE & SIZE MEASURING DEVICE: 125" MERLA DRIFICE					TICKET NO: 00890500
TIME	CHOKESIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
1118					SHUT BACK IN. KICKING OIL WHILE BLEEDING DOWN
1220					STARTED BLEEDING OFF DRILL PIPE INTO TEST TANK
1311					OPENED BYPASS, PULLED OFF BOTTOM 106,000#
1327					FROM CONFIDENTIAL DROPPED BAR TO REVERSE OIL OUT
1332					PIN SHEARED - RIG PUMP TO REVERSE
1415					STARTED OFF BOTTOM, TRIPPED OUT OF HOLE
1500					PUT DN KELLY AND PUMPED DRILL PIPE CAPACITY
1530					RESUMED TRIPPING OUT OF HOLE
1715					TOOL IN THE TABLE, BROKE OUT
1745					TOOL LAID DOWN, CHARTS READ
1810					LOADED OUT TOOLS
1840					LOADED OUT, FINISHED TICKET
1900					RELEASED, JOB COMPLETED

JUN 17
 CONFIDENTIAL
 RECEIVED
 KANSAS CORPORATION COMMISSION
 JUN 22 1992
 CONSOLIDATION DIVISION
 WICHITA, KS

RELEASED

TICKET NO: 00890500
CLOCK NO: 3462 HOUR: 12

GAUGE NO: 8030
DEPTH: 5230.0

ORIGINAL

REF	MINUTES	PRESSURE	AP	FROM t+ft	TO log ft
FIRST FLOW					
B 1	0.0	287.9			
2	3.0	296.2	8.3		
3	6.0	298.8	2.5		
4	9.0	319.1	20.4		
5	12.0	342.5	23.4		
6	15.0	372.3	29.7		
7	18.0	410.3	38.0		
8	21.0	432.9	22.6		
9	24.0	459.7	26.9		
10	27.0	491.2	31.5		
C 11	28.6	507.3	16.1		
FIRST CLOSED-IN					
C 1	0.0	507.3			
2	1.0	1055.3	548.0	1.0	1.462
3	2.0	1186.2	578.9	1.9	1.179
4	3.0	1249.8	742.5	2.7	1.022
5	4.0	1285.8	778.6	3.5	0.913
6	5.0	1314.1	806.8	4.2	0.829
7	6.0	1335.2	827.9	5.0	0.761
8	7.0	1352.8	845.5	5.7	0.704
9	8.0	1366.2	858.9	6.3	0.660
10	9.0	1378.2	870.9	6.9	0.620
11	10.0	1386.3	879.0	7.4	0.586
12	12.0	1403.6	896.3	8.5	0.528
13	14.0	1414.9	907.6	9.4	0.483
14	16.0	1424.4	917.1	10.3	0.445
15	18.0	1432.8	925.5	11.1	0.413
16	20.0	1438.8	931.5	11.8	0.386
17	22.0	1444.9	937.6	12.4	0.362
18	24.0	1449.8	942.5	13.0	0.341
19	26.0	1454.2	946.9	13.6	0.322
20	28.0	1458.2	950.9	14.1	0.306
21	30.0	1460.3	953.0	14.6	0.291
22	35.0	1468.0	960.7	15.7	0.260
23	40.0	1473.9	966.6	16.7	0.234
24	45.0	1476.8	969.5	17.5	0.214
25	50.0	1481.2	973.9	18.2	0.196
26	55.0	1485.5	978.2	18.8	0.182
D 27	60.3	1487.1	979.8	19.3	0.169
SECOND FLOW					
E 1	0.0	630.4			
2	3.0	594.4	-36.0		
3	6.0	596.4	2.1		
4	9.0	625.9	29.4		
5	12.0	638.9	13.0		
6	15.0	666.1	27.2		

REF	MINUTES	PRESSURE	AP	t+ft	log ft
SECOND FLOW - CONTINUED					
7	18.0	695.9	29.7		
8	21.0	721.1	25.3		
9	24.0	753.7	32.6		
10	27.0	783.2	29.4		
11	30.0	805.4	22.3		
12	33.0	829.6	24.2		
13	36.0	854.7	25.1		
14	39.0	877.5	22.7		
15	42.0	896.7	19.2		
16	45.0	915.1	18.4		
17	48.0	942.0	26.9		
18	51.0	957.3	15.3		
19	54.0	976.5	19.2		
20	57.0	1004.3	27.8		
21	60.0	1027.0	22.7		
F 22	62.3	1039.3	12.2		
SECOND CLOSED-IN					
F 1	0.0	1039.3			
2	1.0	1254.7	215.5	1.0	1.949
3	2.0	1287.8	248.5	2.0	1.668
4	3.0	1313.0	273.7	2.9	1.498
5	4.0	1329.9	290.6	3.8	1.376
6	5.0	1342.6	303.3	4.7	1.283
7	6.0	1353.2	313.9	5.6	1.209
8	7.0	1361.9	322.7	6.5	1.147
9	8.0	1369.2	330.0	7.3	1.093
10	9.0	1375.1	335.8	8.2	1.043
11	10.0	1380.7	341.4	9.0	1.003
12	12.0	1390.2	350.9	10.6	0.933
13	14.0	1398.9	359.7	12.1	0.875
14	16.0	1405.4	366.2	13.6	0.824
15	18.0	1411.2	371.9	15.0	0.781
16	20.0	1416.1	376.8	16.4	0.744
17	22.0	1420.2	380.9	17.7	0.709
18	24.0	1424.3	385.1	19.0	0.680
19	26.0	1429.0	389.7	20.2	0.653
20	28.0	1432.0	392.7	21.4	0.627
21	30.0	1434.5	395.2	22.6	0.605
22	35.0	1441.5	402.2	25.3	0.556
23	40.0	1446.6	407.3	27.8	0.515
24	45.0	1451.3	412.1	30.1	0.480
25	50.0	1455.3	416.0	32.2	0.450
26	55.0	1457.7	418.4	34.3	0.424
27	60.0	1461.0	421.6	36.1	0.401
28	70.0	1468.3	429.1	39.5	0.361
29	80.0	1472.1	432.9	42.5	0.330
30	90.0	1474.7	435.4	45.2	0.303
31	100.0	1478.2	438.9	47.6	0.281
32	110.0	1480.4	441.1	49.8	0.261
G 33	121.8	1482.9	443.7	52.0	0.242

JUN 17

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 22 1992
CONSERVATION DIVISION
WICHITA, KS

REMARKS:

TICKET NO: 00890500

RELEASED

GAUGE NO: 8029

CLOCK NO: 3247 HOUR: 12

JUN 15 1992

DEPTH: 5283.0

REF	MINUTES	PRESSURE	AP	$\frac{dx}{dt}$	$\log \frac{dx}{dt}$	REF	MINUTES	PRESSURE	AP	$\frac{dx}{dt}$	$\log \frac{dx}{dt}$	
FIRST FLOW						SECOND FLOW - CONTINUED						
B	1	0.0	491.1				7	18.0	734.9	30.3		
	2	3.0	438.2	-52.9			8	21.0	757.1	22.3		
	3	6.0	422.6	-15.5			9	24.0	789.9	32.7		
	4	9.0	457.4	34.7			10	27.0	819.6	29.8		
	5	12.0	492.3	34.9			11	30.0	845.4	25.8		
	6	15.0	523.7	31.4			12	33.0	869.2	23.8		
	7	18.0	515.9	-7.8			13	36.0	893.8	24.6		
	8	21.0	538.6	22.8			14	39.0	917.0	23.3		
	9	24.0	568.7	30.1			15	42.0	937.5	20.4		
	10	27.0	594.5	25.8			16	45.0	957.4	19.9		
C	11	28.5	607.1	12.6			17	48.0	975.5	18.1		
FIRST CLOSED-IN						SECOND CLOSED-IN						
D	1	0.0	507.1			F	1	0.0	1068.6			
	2	1.0	1086.2	479.1	1.0	1.461	2	1.0	1286.9	218.3	1.0	1.978
	3	2.0	1228.6	621.4	1.8	1.190	3	2.0	1327.9	259.3	1.9	1.669
	4	3.0	1293.0	685.9	2.7	1.019	4	3.0	1351.0	282.4	2.9	1.500
	5	4.0	1326.5	719.4	3.5	0.915	5	4.0	1368.0	299.4	3.8	1.375
	6	5.0	1355.7	748.6	4.3	0.824	6	5.0	1380.9	312.3	4.7	1.284
	7	6.0	1373.5	766.4	4.9	0.763	7	6.0	1390.1	321.5	5.6	1.210
	8	7.0	1388.5	781.3	5.6	0.708	8	7.0	1398.4	329.8	6.5	1.145
	9	8.0	1399.2	792.1	6.2	0.661	9	8.0	1404.7	336.1	7.3	1.093
	10	9.0	1409.9	802.8	6.8	0.622	10	9.0	1411.3	342.7	8.2	1.045
	11	10.0	1418.8	811.7	7.4	0.587	11	10.0	1416.0	347.4	9.0	1.003
	12	12.0	1433.1	826.0	8.5	0.529	12	12.0	1425.4	356.8	10.6	0.933
	13	14.0	1443.6	836.4	9.4	0.484	13	14.0	1433.2	364.6	12.1	0.875
	14	16.0	1452.7	845.6	10.3	0.445	14	16.0	1439.2	370.6	13.6	0.824
	15	18.0	1460.2	853.0	11.0	0.413	15	18.0	1444.9	376.3	15.0	0.782
	16	20.0	1467.1	860.0	11.8	0.385	16	20.0	1449.2	380.6	16.4	0.743
	17	22.0	1473.6	866.5	12.4	0.361	17	22.0	1454.3	385.7	17.7	0.710
	18	24.0	1479.1	872.0	13.0	0.341	18	24.0	1457.8	389.2	19.0	0.680
	19	26.0	1483.4	876.3	13.6	0.322	19	26.0	1462.0	393.4	20.2	0.653
	20	28.0	1487.9	880.8	14.2	0.305	20	28.0	1465.3	396.7	21.4	0.628
	21	30.0	1490.5	883.4	14.6	0.291	21	30.0	1468.1	399.5	22.6	0.605
	22	35.0	1498.7	891.6	15.7	0.259	22	35.0	1475.2	406.7	25.3	0.556
	23	40.0	1504.0	896.9	16.7	0.234	23	40.0	1481.1	412.5	27.8	0.515
	24	45.0	1508.5	901.3	17.5	0.214	24	45.0	1485.5	416.9	30.1	0.480
D	27	60.3	1518.8	911.6	19.4	0.169	25	50.0	1489.7	421.1	32.2	0.450
SECOND FLOW						KANSAS CORPORATION COMMISSION						
E	1	0.0	636.2				26	55.0	1493.3	424.8	34.3	0.423
	2	3.0	590.9	-45.3			27	60.0	1496.8	428.2	36.1	0.400
	3	6.0	610.3	19.5			28	70.0	1502.3	433.7	39.5	0.361
	4	9.0	641.9	31.6			29	80.0	1506.5	437.9	42.5	0.330
	5	12.0	674.5	32.6			30	90.0	1510.9	442.4	45.2	0.303
	6	15.0	704.6	30.1			31	100.0	1514.4	445.8	47.6	0.281
							32	110.0	1517.1	448.5	49.8	0.261
							33	121.8	1519.9	451.3	52.0	0.242

JUN 17
CONFIDENTIAL

RECEIVED

JUN 22 1992

CONSERVATION DIVISION
WICHITA, KS

REMARKS:

















ORIGINAL

TICKET NO. 00890500

RELEASED

JUN 15 1993

FROM CONFIDENTIAL

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4580.1	
3		DRILL COLLARS.....	6.000	2.250	542.2	
50		IMPACT REVERSING SUB.....	6.000	2.170	1.0	5122.9
3		DRILL COLLARS.....	6.000	2.250	88.2	
5		CROSSOVER.....	6.000	2.370	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	4.500	2.430	4.7	
13		DUAL CIP SAMPLER.....	5.000	0.750	6.6	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5228.0
80		AP RUNNING CASE.....	5.000	2.250	4.1	5230.0
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	5244.6
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	5250.4
20		FLUSH JOINT ANCHOR.....	5.000	2.370	28.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.5	5280.9
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	5283.0
TOTAL DEPTH						5286.0

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 22 1992

CONSERVATION DIVISION
WICHITA, KS

JUN 17

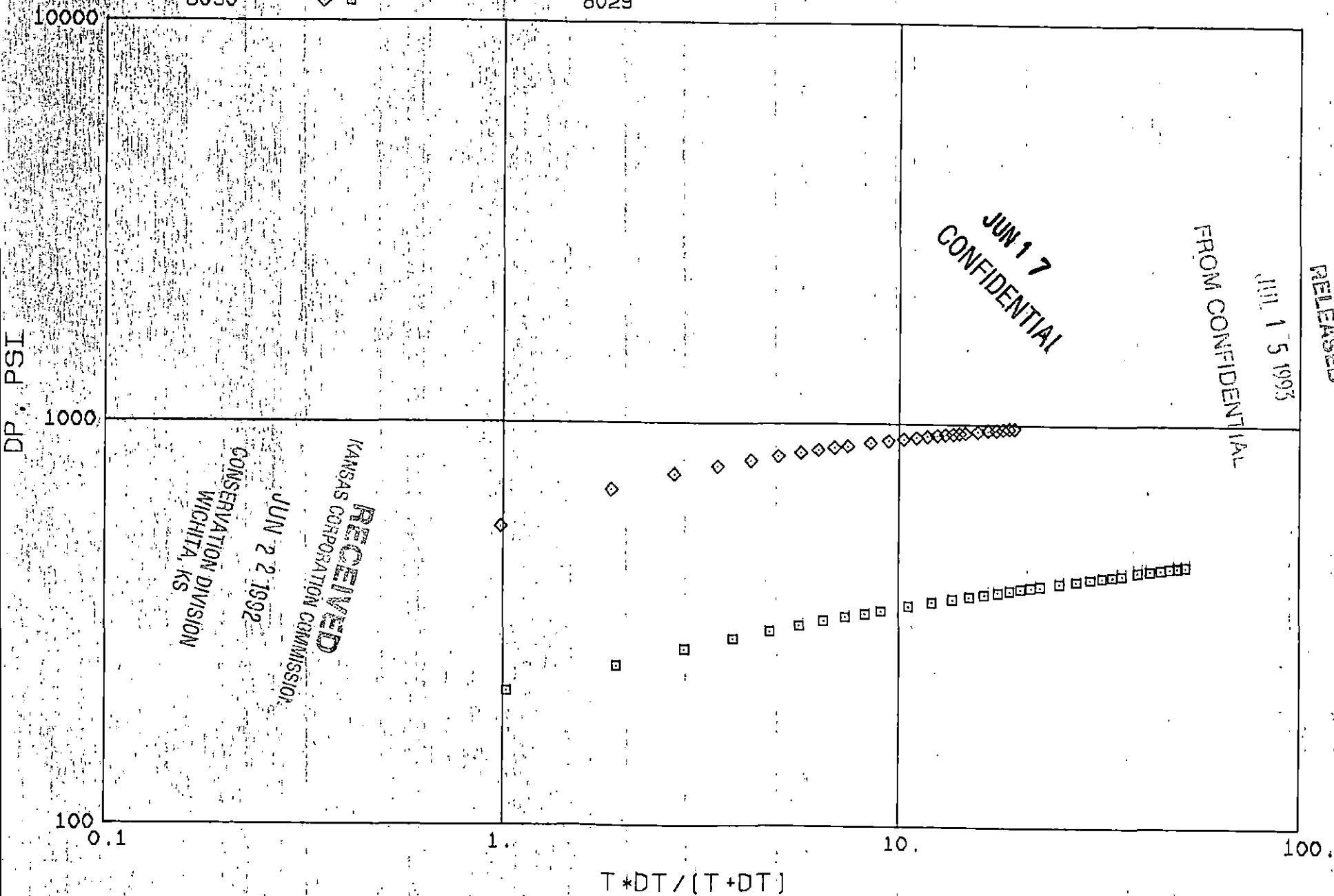
CONFIDENTIAL

EQUIPMENT DATA

GAUGE NO 8030 CIP 1 2
◇ □

GAUGE NO 8029 CIP 1 2

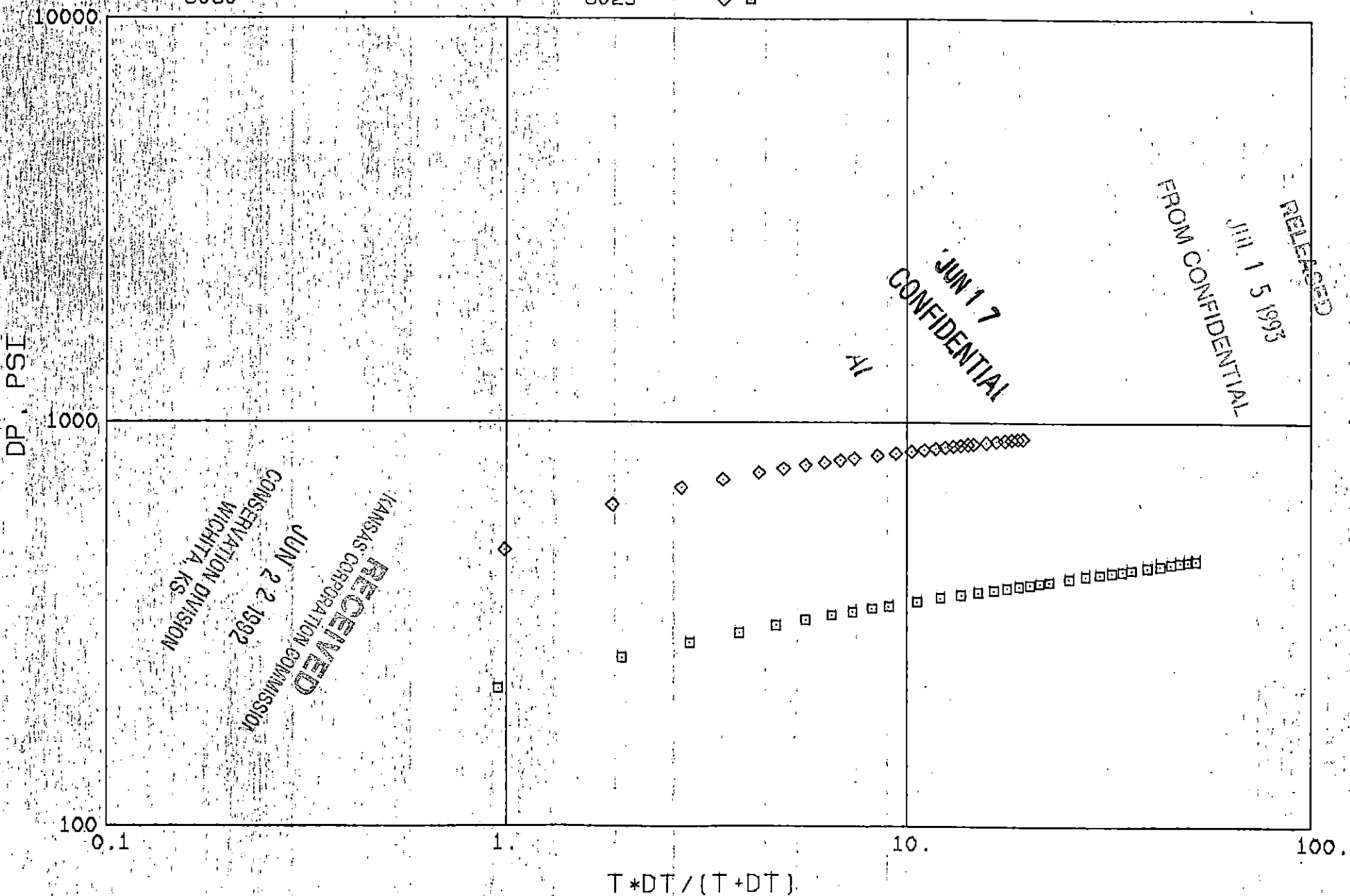
TICKET NO 00890500



ORIGINAL

GAUGE NO CIP 1 2
8030

GAUGE NO CIP 1 2
8029 \diamond \square



RECEIVED
KANSAS CORPORATION COMMISSION
JUN 2 2 1992
CONSERVATION DIVISION
WICHITA, KS

JUN 1 7
CONFIDENTIAL

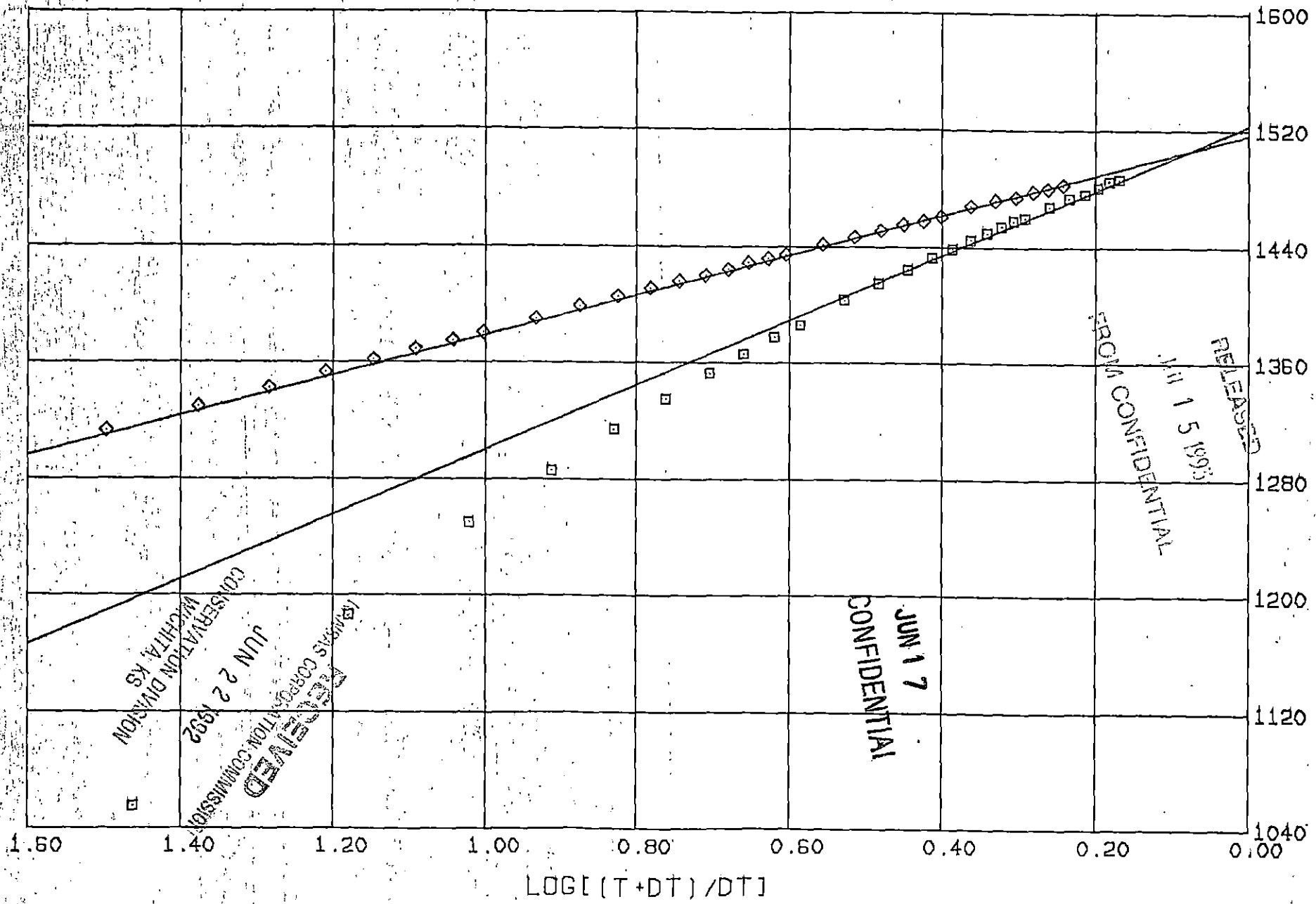
RELEASED
JUN 1 5 1993
FROM CONFIDENTIAL

ORIGINAL

TICKET NO 00890500

GAUGE NO 8030 CIP 1 2
□ ◇

GAUGE NO 8029 CIP 1 2
□ ◇



RELEASED
KANSAS CORPORATION COMMISSION
JUN 22 1992
CONSERVATION DIVISION
WICHITA, KS

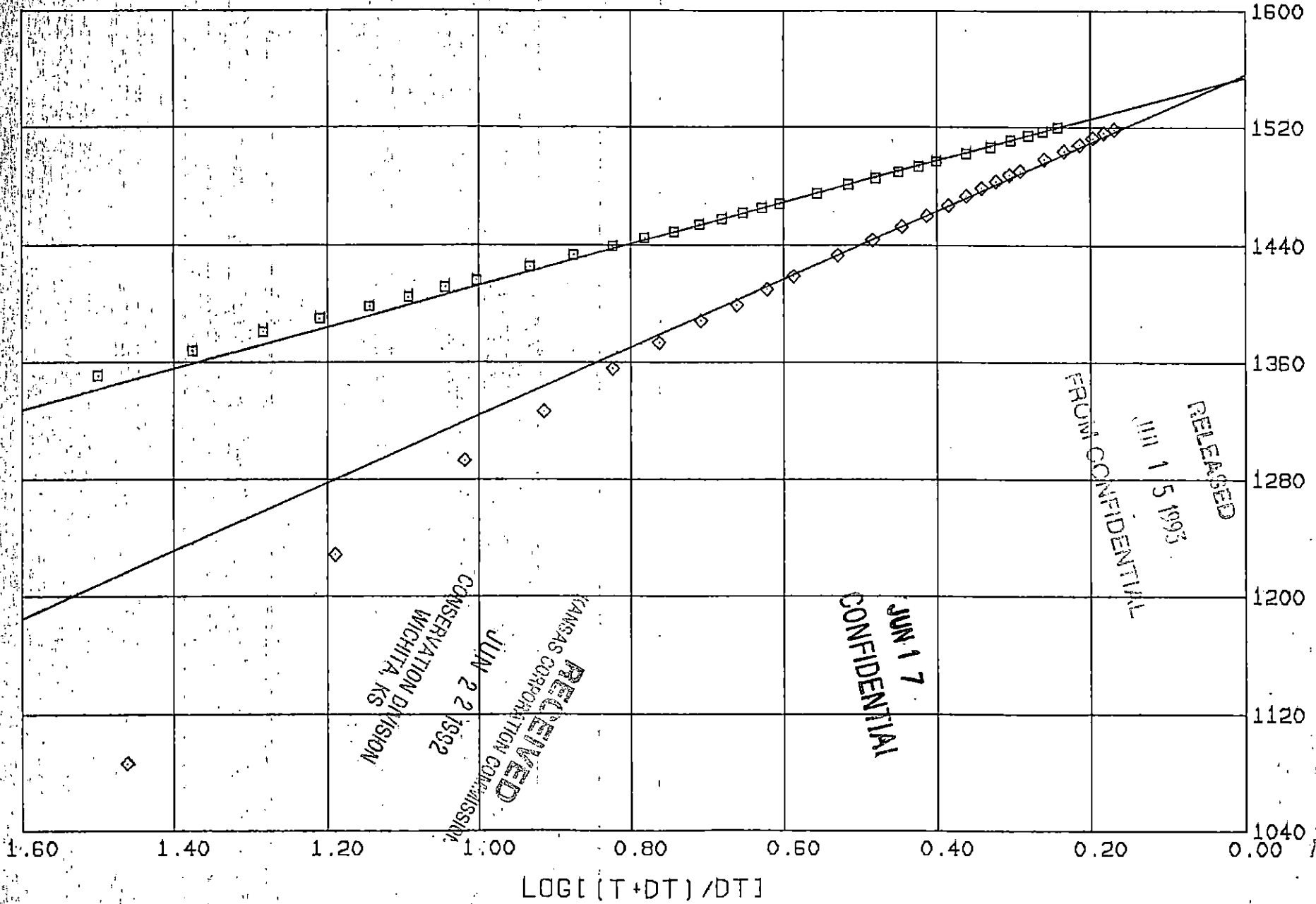
JUN 17
CONFIDENTIAL

RELEASED
JUN 15 1993
CONFIDENTIAL

ORIGINAL

GAUGE NO CIP 1.2
8030

GAUGE NO CIP 1.2
8029 \diamond \square



RECEIVED
KANSAS CORPORATION COMMISSION
JUN 22 1992
CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL
JUN 17

RELEASED
JUN 15 1993
FROM CONFIDENTIAL

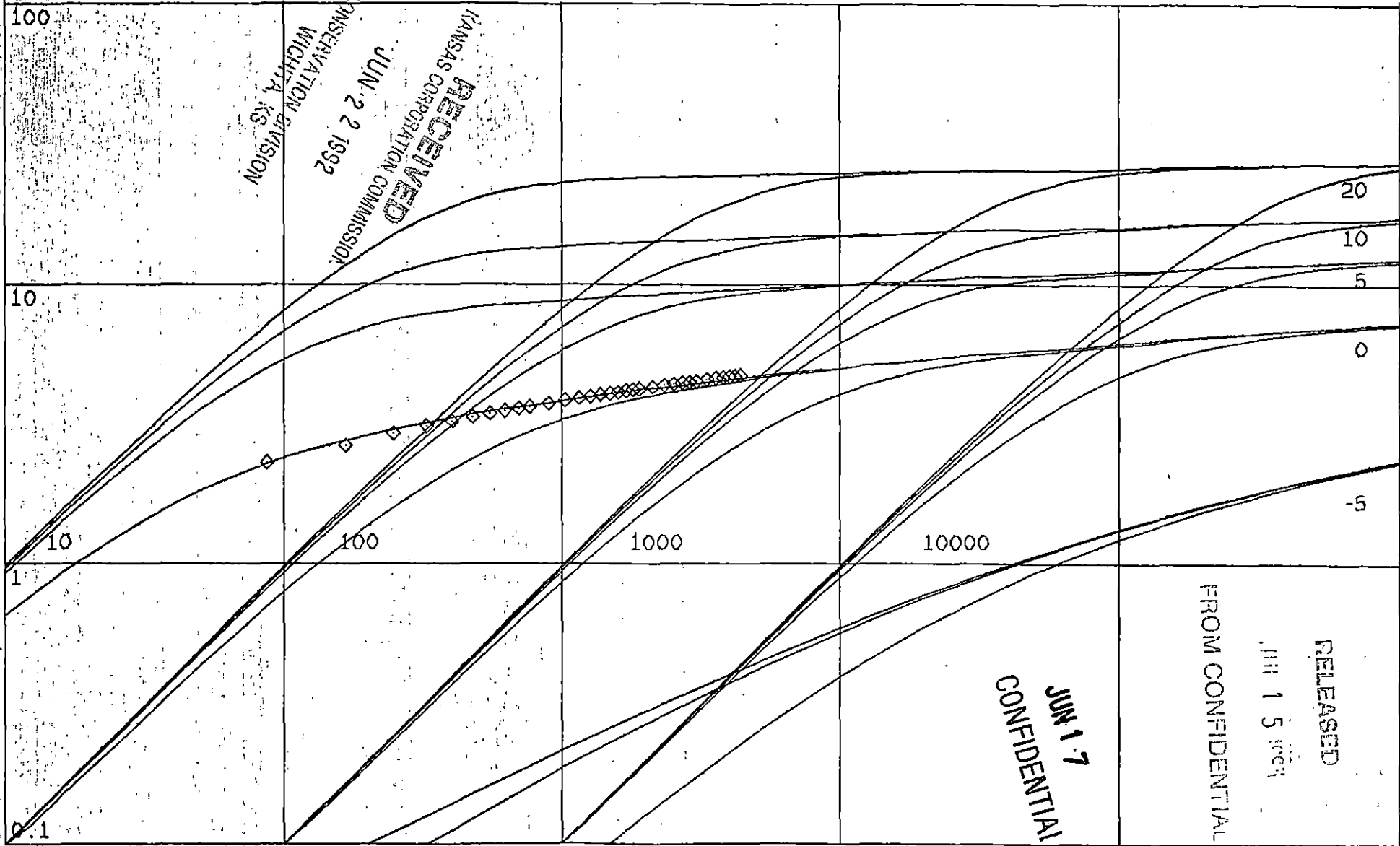
ORIGINAL

GAUGE NO 8030

CIP 2

TICKET NO 00890500

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 22 1992
CONSERVATION DIVISION
WICHITA, KS

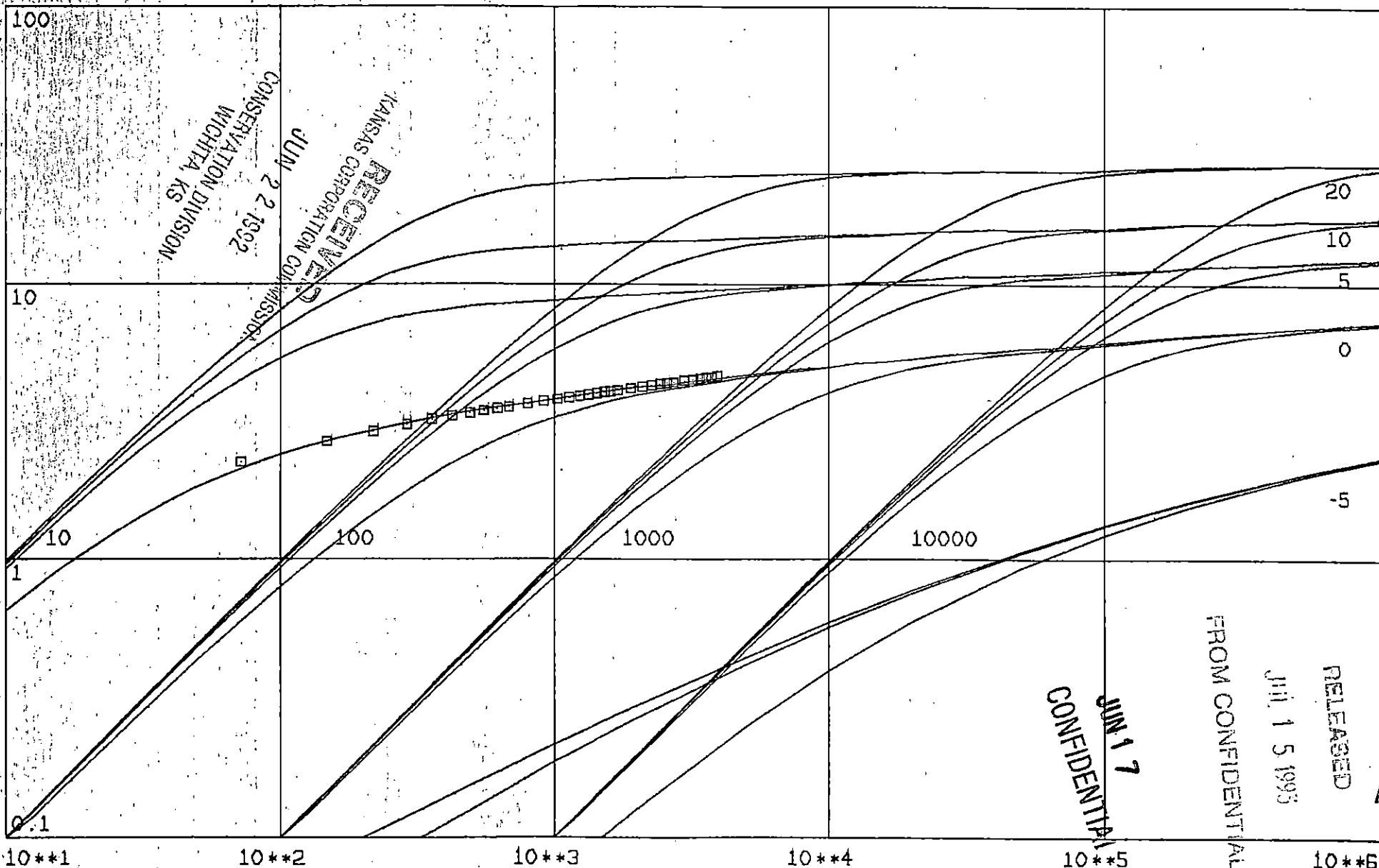


ORIGINAL

GAUGE NO 8029

CIP 2

TICKET NO 00890500



ORIGINAL

ORIGINAL

114

TICKET NUMBER 00890500

**SUMMARY OF RESERVOIR PARAMETERS
USING HORNER METHOD FOR LIQUID WELLS**

OIL GRAVITY 36.6 °API@60 °F WATER SALINITY 0.0 % SALT
 GAS GRAVITY 0.700 FLUID GRADIENT 0.3647 psi/ft
 GAS/OIL RATIO 101.9 SCF/STB FLUID PROPERTIES AT 1554.3 psig
 TEMPERATURE 140.0 °F VISCOSITY 2.132 cp
 NET PAY 30.0 ft FMT VOL FACTOR 1.086 Rvol/Svol
 POROSITY 10.0 % SYSTEM COMPRESSIBILITY 7.48 x10⁻⁶ vol/vol/psi
 PIPE CAPACITY FACTORS 0.00492 0.01422 bbl/ft

GAUGE NUMBER		8030	8030	8029	8029			
GAUGE DEPTH		5230.0	5230.0	5283.0	5283.0			
FLOW AND CIP PERIOD		1	2	1	2			UNITS
FINAL FLOW PRESSURE	P _f	507.3	1039.3	507.1	1058.6			psig
TOTAL FLOW TIME	t	28.6	90.9	28.6	90.9			min
EXTRAPOLATED PRESSURE	P*	1523.5	1516.9	1556.1	1554.3			psig
ONE CYCLE PRESSURE		1300.1	1378.7	1324.0	1412.5			psig
PRODUCTION RATE	Q	540.1	443.5	507.2	458.3			BPD
TRANSMISSIBILITY	kh/μ	427.1	566.7	385.9	571.1			md-ft cp
FLOW CAPACITY	-kh	910.513	1208.23	822.872	1217.73			md-ft
PERMEABILITY	k	30.3504	40.2745	27.4291	40.5911			md
SKIN FACTOR	S	-0.2	-2.2	-0.7	-2.2			
DAMAGE RATIO	DR	1.0	0.6	0.9	0.6			
POTENTIAL RATE	Q ₁	540.1	443.5	507.2	458.3			BPD
RADIUS OF INVESTIGATION	r _i	96.4	197.9	91.6	198.6			ft

REMARKS: ALL CALCULATED RESERVOIR PARAMETERS ARE EFFECTIVE TO 100% OIL PRODUCTION. THE OIL RATES WERE DETERMINED USING THE PRESSURE CHANGE DURING PIPE FILLUP METHOD.

RECEIVED
 KANSAS CORPORATION COMMISSION
 JUN 22 1992
 CONSERVATION DIVISION
 WICHITA, KS

RELEASED

JUN 15 1993

FROM CONFIDENTIAL

JUN 17

CONFIDENTIAL

NOTICE: 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 OF FURNISHING OF INFORMATION.

ORIGINAL

STT

TICKET NUMBER 00890500

SUMMARY OF RESERVOIR PARAMETERS USING CURVE MATCH METHOD FOR LIQUID WELLS

OIL GRAVITY <u>36.6</u> °API@60 °F	WATER SALINITY <u>0.0</u> % SALT
GAS GRAVITY <u>0.700</u>	FLUID GRADIENT <u>0.3647</u> psi/ft
GAS/OIL RATIO <u>101.9</u> SCF/STB	FLUID PROPERTIES AT <u>1519.9</u> psig
TEMPERATURE <u>140.0</u> °F	VISCOSITY <u>2.119</u> cp
NET PAY <u>30.0</u> ft	FMT VOL FACTOR <u>1.087</u> Rvol/Svol
POROSITY <u>10.0</u> %	SYSTEM COMPRESSIBILITY <u>7.57</u> x10 ⁻⁵ vol/vol/psi
PIPE CAPACITY FACTORS <u>0.00492</u>	<u>0.01422</u> bbl/ft

GAUGE NUMBER	8030	8029					
GAUGE DEPTH	5230.0	5283.0					
FLOW AND CIP PERIOD	2	2			RELEASED		UNITS
FINAL FLOW PRESSURE P_f	1039.3	1068.6			III 1 5 1003		psig
TOTAL FLOW TIME t	90.9	90.9					min
PRODUCTION RATE Q	443.5	458.3			FROM CONFIDENTIAL		BPD
t_d AT 1 HOUR	3068.	2723.					
P_d AT 100 psi	1.063	1.025					
C_d	586.2	558.2					
SKIN S	0.0	0.0					
TRANSMISSIBILITY k_h/μ	723.5	721.0					md-ft cp
FLOW CAPACITY k_h	1532.93	1527.77					md-ft
PERMEABILITY k	51.0976	50.9257					md
DAMAGE RATIO DR	1.0	1.0					
POTENTIAL RATE Q_1	443.5	458.3					BPD
RADIUS OF INVESTIGATION r_i	222.2	221.9					ft

REMARKS: PERMEABILITIES EVALUATED USING THE RAMEY RADIAL FLOW TYPE CURVE ANALYSIS METHOD AGREE WELL WITH THE HORNER SEMILOG ANALYSIS RESULTS.

RECEIVED
 KANSAS CORPORATION COMMISSION

JUN 17
CONFIDENTIAL

JUN 22 1992
 CONSERVATION DIVISION
 WICHITA, KS

NOTICE: 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 OF FURNISHING OF INFORMATION.

EQUATIONS FOR DST LIQUID WELL ANALYSIS

Transmissibility $\frac{kh}{\mu} = \frac{162.6 QB}{m} \frac{md-ft}{cp}$

Indicated Flow Capacity $kh = \frac{kh}{\mu} \mu \frac{md-ft}{cp}$

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

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

Damage Ratio $DR = \frac{P^* - P_r}{P^* - P_r - 0.87 \frac{Q B \mu}{k h}}$

Theoretical Potential w/Damage Removed $Q_1 = Q DR$

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

RELEASED
 JUN 15 1992 ORIGINAL
 FROM CONFIDENTIAL
 JUN 17 CONFIDENTIAL
 RECEIVED
 KANSAS CORPORATION COMMISSION BPD
 JUN 22 1992
 CONSERVATION DIVISION
 WICHITA KS

TEMPERATURE RECORDER CHART

140°

008905

10° each circle

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 of furnishing of information.



HALLIBURTON SERVICES

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

INVOICE NO.	DATE
216706	04/12/1992

A Halliburton Company

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
U.S. GOVERNMENT "C" 2		MORTON		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL		G&J #3		CEMENT SURFACE CASING		04/12/1992
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
019595	JOHN SHILLING		33876	COMPANY TRUCK	32589	

ANADARKO PETROLEUM CORP
P. O. BOX 351
LIBERAL, KS 67905-0351

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

RELEASED
JUN 15 1993
FROM CONFIDENTIAL
JUN 17
CONFIDENTIAL

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - EASTERN AREA1					
000-117	MILEAGE	20	MI	2.60	52.00
		1	UNT		
001-016	CEMENTING CASING	1511	FT	1,020.00	1,020.00
		1	UNT		
030-018	CEMENTING PLUG 5W, PLASTIC TOP	8 5/8	IN	130.00	130.00
		1	EA		
001-018	CEMENTING CASING - ADD HRS	2	HR	180.00	360.00
		1	UNT		
40	CENTRALIZER 8-5/8" X 12.25"	6	EA	62.00	372.00
807.93059					
350	HALLIBURTON WELD-A	1	LB	11.50	11.50
890.10802					
504-043	PREMIUM CEMENT	200	SK	7.94	1,588.00
504-043	PREMIUM CEMENT	313	SK	7.94	2,485.22
506-105	POZMIX A	312	SK	4.32	1,347.84
506-121	HALLIBURTON-GEL 2%	10	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	11	SK	14.75	162.25
509-406	ANHYDROUS CALCIUM CHLORIDE	15	SK	26.50	397.50
500-207	BULK SERVICE CHARGE	877	CFT	1.15	1,008.55
500-306	MILEAGE CMTG MAT DEL OR RETURN	746.000	TMI	.80	596.80
INVOICE SUBTOTAL					9,531.66
DISCOUNT-(BID)					4,003.28-
INVOICE BID AMOUNT					5,528.38
*-KANSAS STATE SALES TAX					199.64
*-SEWARD COUNTY SALES TAX					46.98
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$5,775.00

RECEIVED
KANSAS CORPORATION COMMISSION

JUN 22 1992

CONSERVATION DIVISION
WICHITA, KS

4913-2041

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.



HALLIBURTON SERVICES ORIGINAL

INVOICE

A Halliburton Company

INVOICE NO.	DATE
216733	04/27/1992

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
U S GOVERNMENT 2		MORTON		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL		GABBERT & JONES #3		CEMENT PRODUCTION CASING		04/27/1992
ACCT. NO.	CUSTOMER AGENT		VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA
019595	JOHN SHILLING			33876		COMPANY TRUCK
						FILE NO.
						33298

ANADARKO PETROLEUM CORPORATION
P. O. BOX 351
LIBERAL, KS 67905-0351

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

JUL 15 1993

JUN 17
CONFIDENTIAL

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - EASTERN AREA MILEAGE	45	MI	2.60	117.00
		1	UNT		
001-016	CEMENTING CASING	5432	FT	1,440.00	1,440.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	5 1/2	IN.	50.00	50.00
		1	EA		
314-163	CLAYFIX II	8	GAL	20.00	160.00
018-315	MUD FLUSH	1260	GAL	.60	756.00
504-043	PREMIUM CEMENT	105	SK	7.94	833.70
504-118	HALLIBURTON LIGHT CEMENT - PREM	50	SK	7.19	359.50
507-210	FLOCELE	26	LB	1.30	33.80
507-778	HALAD-344	30	LB	20.25	607.50
508-101	THIXSET COMPONENT A	99	LB	5.35	529.65
508-103	THIXSET COMPONENT B	25	LB	8.15	203.75
508-291	GILSONITE BULK	525	LB	.35	183.75
500-207	BULK SERVICE CHARGE	168	CFT	1.15	193.20
500-306	MILEAGE CMTG MAT DEL OR RETURN	144.2575	TMI	.80	115.41
INVOICE SUBTOTAL					5,583.26
DISCOUNT - (BID)					1,116.65-
INVOICE BID AMOUNT					4,466.61
*-KANSAS STATE SALES TAX					85.10
*-SEWARD COUNTY SALES TAX					20.03
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$4,571.74

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 22 1992

CONSERVATION DIVISION
WICHITA, KS
5/1/92

H913-2041
KJ

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.



INVOICE

HALLIBURTON SERVICES ORIGINAL

A Halliburton Company

INVOICE NO.	DATE
216709	04/29/1992

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
U S GOVERNMENT 2		MORTON		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL		BRUCE WELL SERVICE		CEMENT		04/29/1992
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA	FILE NO.
019595	JOHN SHILLING		33876		COMPANY TRUCK	33298

JUL 15 1993

ANADARKO PETROLEUM CORP
P. O. BOX 351
LIBERAL, KS 67905-0351

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

JUN 17
CONFIDENTIAL

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - EASTERN AREA MILEAGE	50	MI	2.60	130.00 *
009-019	PLUGGING BR SPOT CEMENT OR MUD	2503	FT	1,125.00	1,125.00 *
018-315	MUD FLUSH	840	GAL	.60	504.00
218-738	GLAYFIX II	4	GAL	20.00	80.00
504-043	PREMIUM CEMENT	150	SK	7.94	1,191.00 *
506-105	POZMIX A	100	SK	4.32	432.00 *
506-121	HALLIBURTON-GEL 2%	4	SK	.00	N/C *
500-207	BULK SERVICE CHARGE	250	CFT	1.15	287.50 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	208.335	TMI	.80	166.67 *
INVOICE SUBTOTAL					3,916.17
DISCOUNT-(BID)					783.23-
INVOICE BID AMOUNT					3,132.94
*-KANSAS STATE SALES TAX					113.30
*-SEWARD COUNTY SALES TAX					26.66
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$3,272.90

4913-2063

KA

Jim Butler

5/15/92

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.