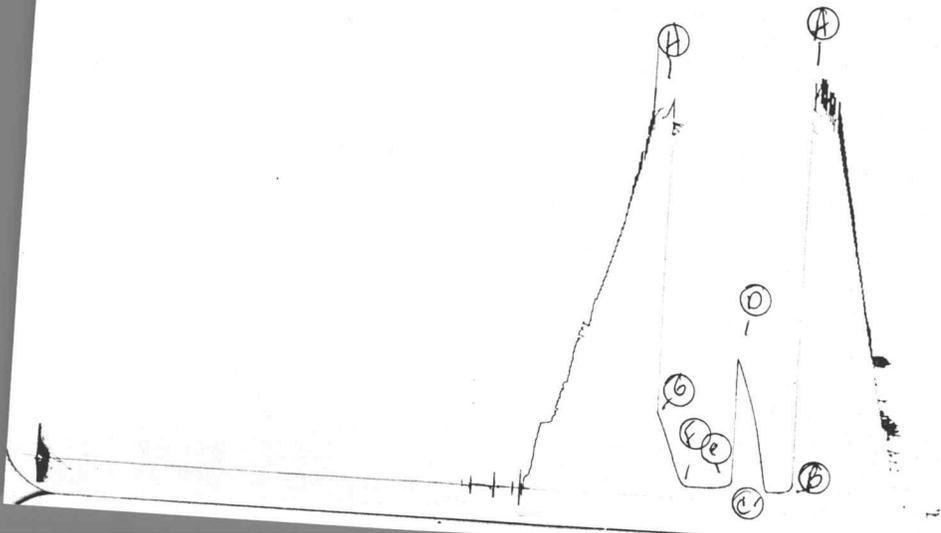


1566

JK # 12836

DARRAH
DST 1

I



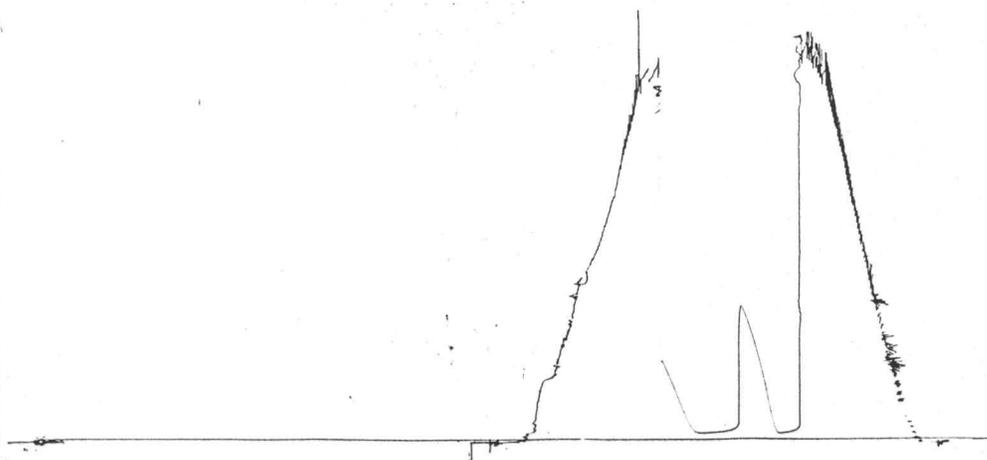
13429

DARRAH

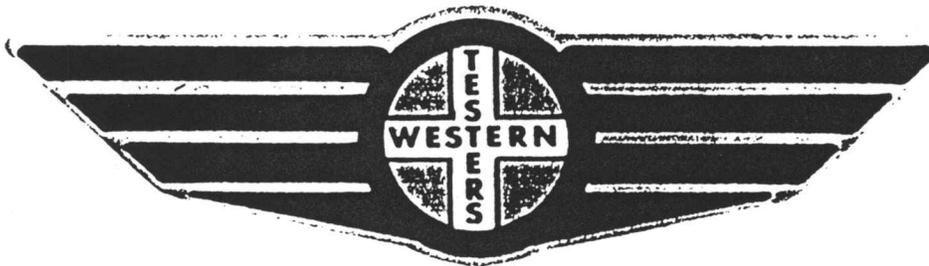
DST 1

JK # 12836

0



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JOHN J DARRAH, JR. LEASE & WELL NO. GIESS #2 SEC. 26 TWP. 15S RGE. 25W TEST NO. 1 DATE 10/15/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 10-15-87
CUSTOMER : JOHN J. DARRAH JR.
WELL : #2 TEST: 1
ELEVATION : 2484 KB
SECTION : 26
RANGE : 25W COUNTY : TREGO
GAUGE SN# : 1566 RANGE : 4300
TICKET : 12836
LEASE : GIESS
GEOLOGIST : B. FUHR
FORMATION : FT. SCOTT-MISS
TOWNSHIP : 15S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4395 TO : 4505 TOTAL DEPTH : 4505
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4390 SIZE : 6.75
PACKER DEPTH : 4395 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG #1
MUD TYPE : CHEMICAL VISCOSITY : 47
WEIGHT : 9.4 WATER LOSS (CC) : 18
CHLORIDES (PPM) : 12000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4075 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 110 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : WEAK SURFACE BLOW ON BOTH THE INITIAL & FINAL FLOWS.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JOHN J. DARRAH JR.
RIG : TREGO-KANSAS
FIELD : GIESS
WELL : #2
DATE : 10-15-87
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : JOHN J. DARRAH JR.
WELL : #2
GAUGE # : 1566
DATE : 15/10/87

FIELD : GIESS
JOB # : 12836
DEPTH : 4505
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:55:0	0.000	62.000	120.00	0.000
2	4:59:59	0.083	62.000	120.00	0.000
3	5:05:0	0.167	62.000	120.00	0.000
4	5:10:0	0.250	62.000	120.00	0.000
5	5:13:0	0.300	62.000	120.00	0.000
6	5:16:0	0.350	110.000	120.00	48.000
7	5:19:0	0.400	226.000	120.00	116.000
8	5:22:0	0.450	337.000	120.00	111.000
9	5:25:0	0.500	438.000	120.00	101.000
10	5:28:0	0.550	521.000	120.00	83.000
11	5:31:0	0.600	592.000	120.00	71.000
12	5:34:0	0.650	660.000	120.00	68.000
13	5:37:0	0.700	724.000	120.00	64.000
14	5:40:0	0.750	782.000	120.00	58.000
15	5:43:0	0.800	807.000	120.00	25.000
16	5:44:0	0.817	68.000	120.00	-739.000
17	5:47:59	0.883	68.000	120.00	0.000
18	5:53:0	0.967	68.000	120.00	0.000
19	5:58:0	1.050	68.000	120.00	0.000
20	6:02:59	1.133	68.000	120.00	0.000
21	6:08:0	1.217	68.000	120.00	0.000
22	6:13:0	1.300	68.000	120.00	0.000
23	6:16:0	1.350	68.000	120.00	0.000
24	6:19:0	1.400	73.000	120.00	5.000
25	6:22:0	1.450	99.000	120.00	26.000
26	6:25:0	1.500	152.000	120.00	53.000
27	6:28:0	1.550	216.000	120.00	64.000
28	6:31:0	1.600	278.000	120.00	62.000
29	6:34:0	1.650	339.000	120.00	61.000
30	6:37:0	1.700	395.000	120.00	56.000
31	6:40:0	1.750	450.000	120.00	55.000
32	6:43:0	1.800	482.000	120.00	32.000

WESTERN TESTING CO. INC.

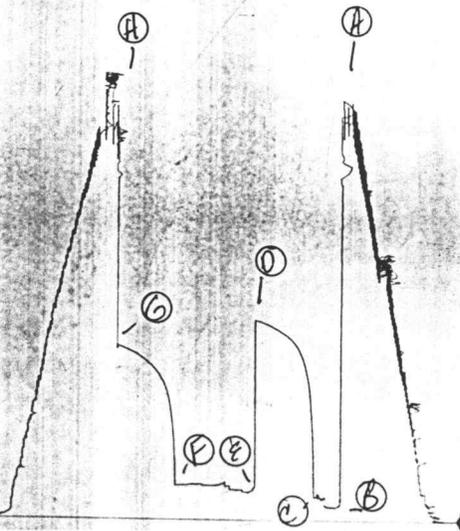
1566

JK #12837

DARRAH

PST 2

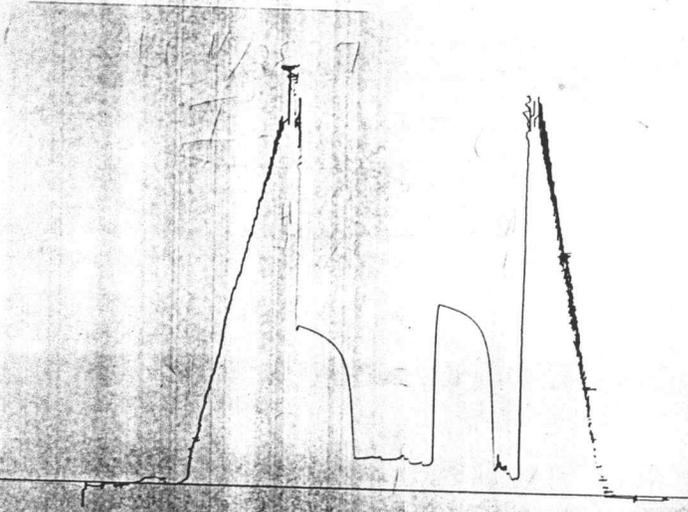
I



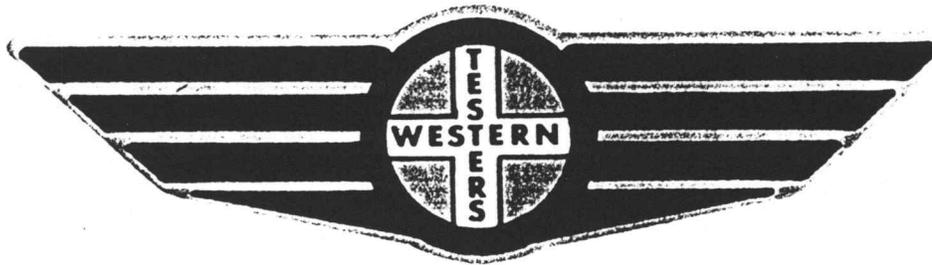
13629

DARTAH
DST2

JK #12837



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

JOHN J DARRAH JR.

LEASE & WELL NO.

CISS #2

SEC. 26 TWP. 15S RGE. 25W TEST NO. 2 DATE 10/15/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 10-15-87
CUSTOMER : JOHN JAY DARRAH JR.
WELL : #2 TEST: 2
ELEVATION : 2484 KB
SECTION : 26
RANGE : 25W COUNTY : TREGO
GAUGE SN# : 1566 RANGE : 4300
TICKET : 12837
LEASE : GIESS
GEOLOGIST : B. FUHR
FORMATION : MISSISSIPPI
TOWNSHIP : 15S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4405 TO : 4515 TOTAL DEPTH : 4515
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4400 SIZE : 6.75
PACKER DEPTH : 4405 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG #1
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.2 WATER LOSS (CC) : 11.8
CHLORIDES (PPM) : 12000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? :

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4085 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 110 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-STRONG-10" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-STRONG-BOTTOM OF BUCKET 55 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

WELL TEST ANALYSIS REPORT
HORNER METHOD
SHUTIN No. 2

COMPANY. JOHN JAY DARRAH JR.
DATE 10-15-87
FIELD. GIESS
WELL #2
AREA TREGO-KANSAS
JOB NUMBER 12837
GAUGE NUMBER . . . 1566
GAUGE DEPTH. . . . 4515
ZONE TESTED. . . . 4405-4515

PHASE : OIL FUNCTION : PRESSURE

=====I=N=P=U=T====D=A=T=A====S=U=M=M=A=R=Y=====

THICKNESS.	H	8.0000E+00	Feet
POROSITY	POR	1.5000E-01	Frac
VISCOSITY.	U	1.2000E+00	Cp
FORMATION VOLUME FACTOR.	B	4.0000E-01	Rb/stb
TOTAL COMPRESSIBILITY.	Ct	9.2500E-06	Psi ⁻¹
WELLBORE RADIUS.	Rw	7.8000E-01	Feet
DRAINAGE RADIUS.	Re	8.0000E+02	Feet
RESERVOIR TEMPERATURE.	T	1.2100E+02	Deg F
GRAVITY OF FLUID	G	4.0000E+01	
PVT EVALUATION PRESSURE.	P	0.0000E+00	Psig
PRESSURE AT SHUT-IN.	Pwf	1.9800E+02	Psig
FINAL RECORDED PRESSURE.	Ps	9.8400E+02	Psig
PRODUCTION RATE.	Q	4.5500E+01	Bbl/day
TOTAL FLOW TIME.	T	1.0000E+00	Hours

=====R=E=G=R=E=S=S=I=O=N====R=E=S=U=L=T=S=====

LEAST SQUARE RESULTS OVER THE INTERVAL :
FROM 0 TO 0

SLOPE OF THE LINE.	4.2909E+02	psi/cycle
FALSE PRESSURE, PSTAR.	1.1426E+03	psi
PRESSURE AT 1 HOUR	1.0134E+03	psi

=====A=N=A=L=Y=S=I=S====R=E=S=U=L=T=S=====

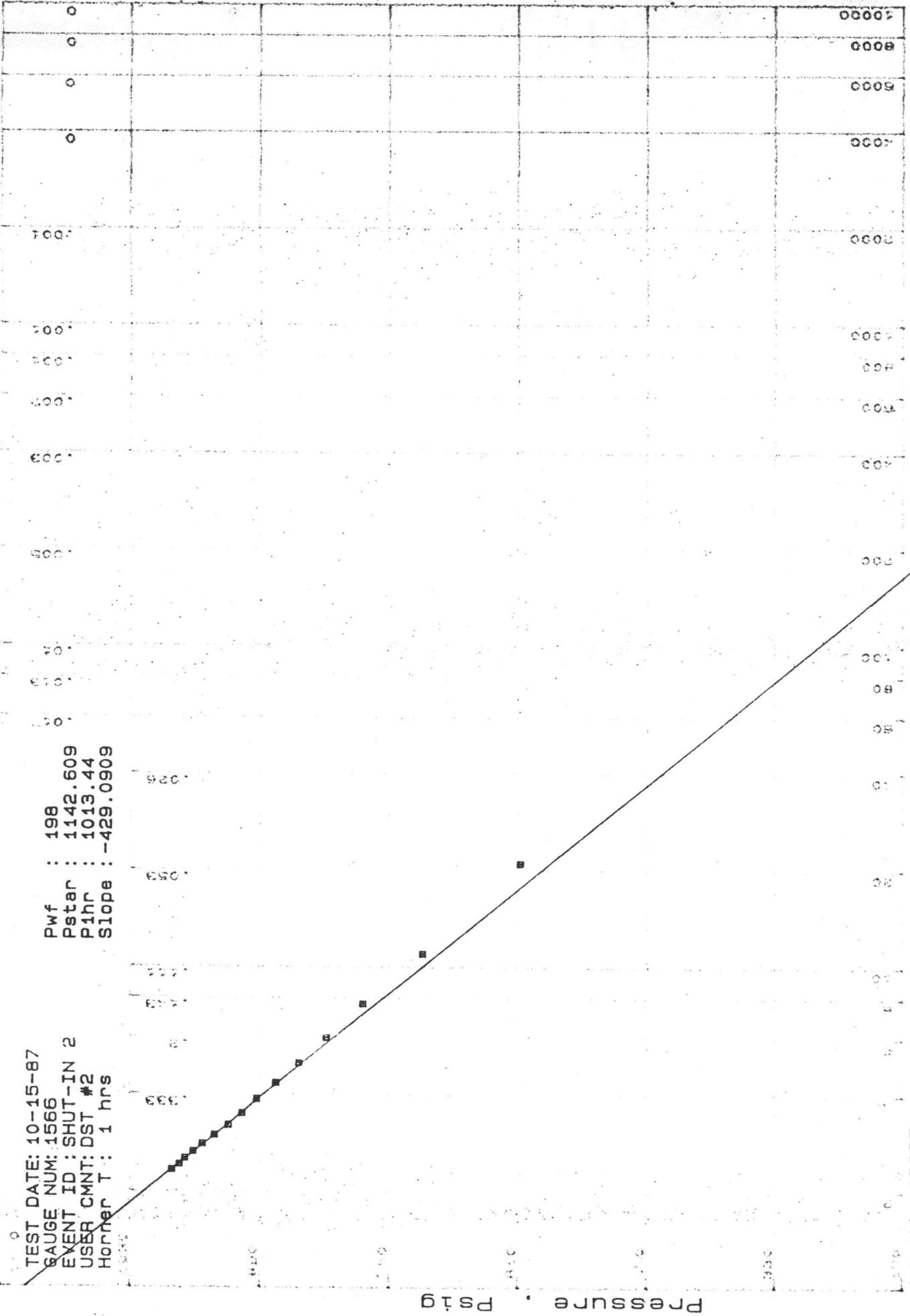
TRANSMISSIBILITY.	Kh/u	6.8967E+00	md-ft/cp
FLOW CAPACITY.	Kh	8.2761E+00	md-ft
PERMEABILITY to PHASE.	K	1.0345E+00	md
DAMAGE RATIO	Dr	7.9221E-01	
RADIUS OF INVESTIGATION.	Rinv	2.5601E+01	ft
SKIN FACTOR.	S	-6.6507E-01	
AVERAGE PRESSURE	Pbar	1.1424E+03	psig
DIMENSIONLESS TIME	Tda	8.1582E-05	
MATTHEWS-BRONS-HAZEBROEK	PDmbh	1.0252E-03	

COMPANY: JOHN JAY DARRAH JR.
FIELD: GIESS

WELL #2: TREGO-KANSAS

PROCESSED BY: LARRY KING
DATE: 11-06-1987

TEST DATE: 10-15-87
GAUGE NUM: 1566
EVENT ID: SHUT-IN 2
USER CMNT: DST #2
Horner T: 1 hrs
Pwf : 198
Pstar : 1142.609
P1hr : 1013.44
Slope : -429.0909



COMPANY: JOHN JAY DARRAH JR.
FIELD: GIESS

WELL LOCATION: #2 TREGO-KANSAS

PROCESSED BY: 11-06-1987
ENGINEER: LARRY KING

TEST DATE: 10-15-87
GAUGE NUM: 1566
EVENT ID: SHUT-IN 1
USER CMNT: DST #2
Horner T: .3333333 hrs
Pwf : 132
Pstar : 1231.415
P1hr : 1147.821
Slope : -669.09

