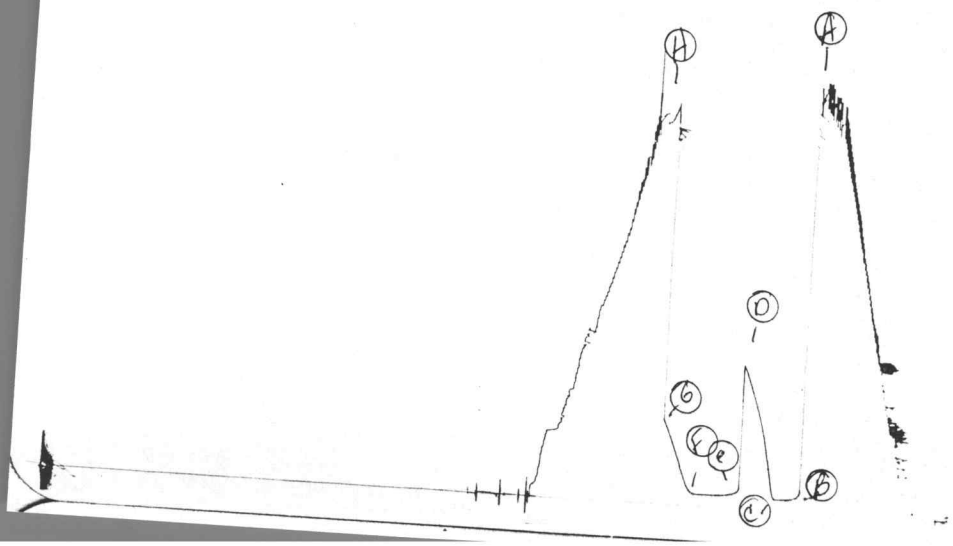
1566

DK # 12836

DARRAH
DST 1

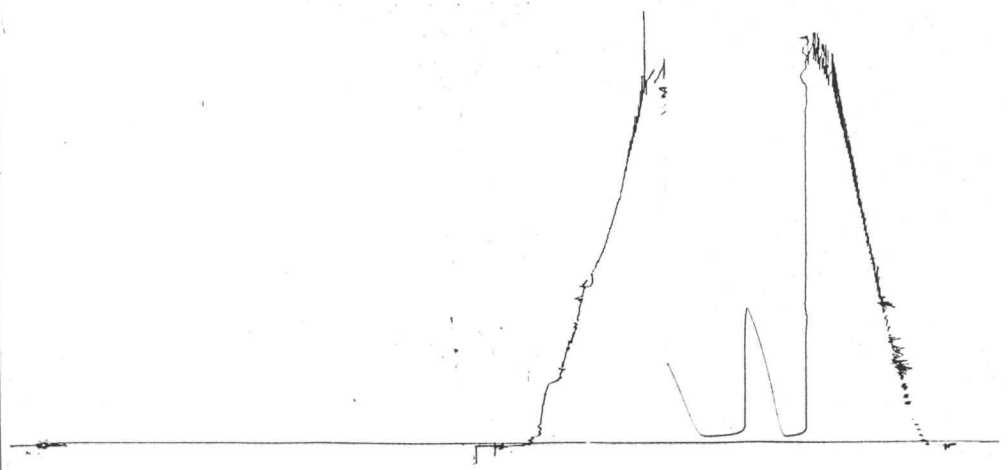
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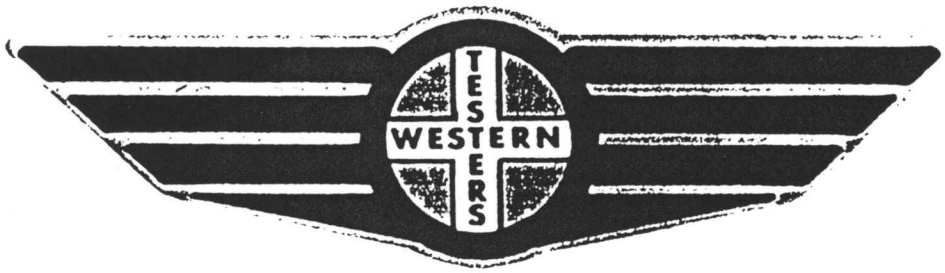
13629

Darrah
DST 1

JK # 12836



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			TICKET	: 12836
CUSTOMER	: JOHN J. DARRAH JR.			LEASE	: GIESS
WELL	: #2	TEST: 1		GEOLOGIST	: B. FUHR
ELEVATION	: 2484 KB			FORMATION	: FT. SCOTT-MISS
SECTION	: 26			TOWNSHIP	: 15S
RANGE	: 25W	COUNTY	: TREGO	STATE	: KANSAS
GAUGE SN#	: 1566	RANGE	: 4300	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: 5: 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: 2:59	1.133	68.000	120.00	0.000
21	6: 8: 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

RECOVERED : 10 FT OF: SLIGHTLY OIL CUT MUD
LESS THAN 5% OIL

Total Barrels Fluid = 0.05
Total Fluid Prod Rate = 1.50 BFPD
Indicated Oil Rate = 0.07 BOPD
Indicated Wtr Rate = 0.14 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 4:55 AM TIME STARTED OFF BOTTOM : 6:40 AM
WELL TEMPERATURE : 120

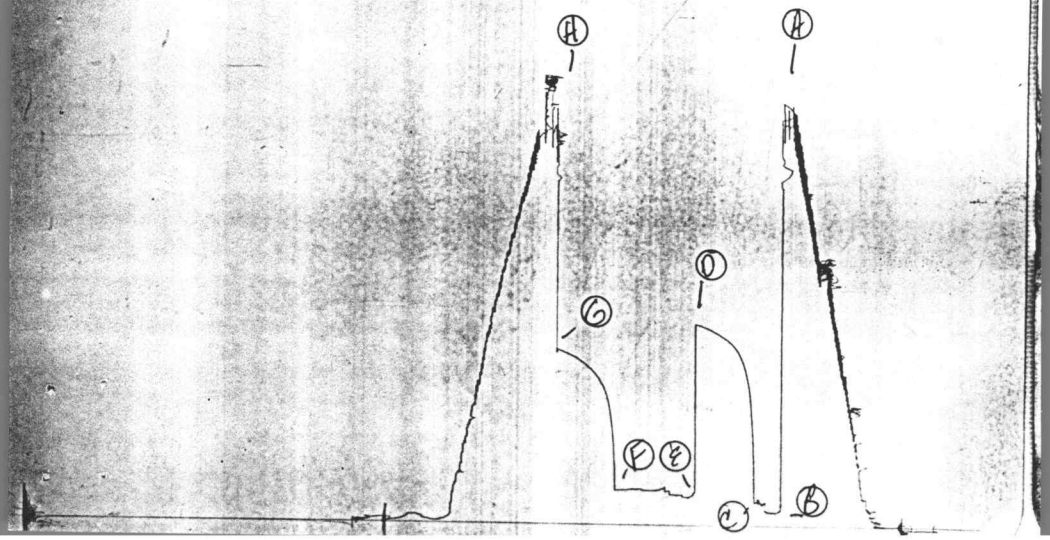
INITIAL HYDROSTATIC PRESSURE			(A)	2286	
INITIAL FLOW PERIOD	MIN:	15	(B)	62	PSI TO (C) : 62
INITIAL CLOSED IN PERIOD	MIN:	33	(D)	807	
FINAL FLOW PERIOD	MIN:	30	(E)	68	PSI TO (F) : 68
FINAL CLOSED IN PERIOD	MIN:	30	(G)	482	
FINAL HYDROSTATIC PRESSURE			(H)	2149	

1566

DARRAH
PST 2

JK # 12837

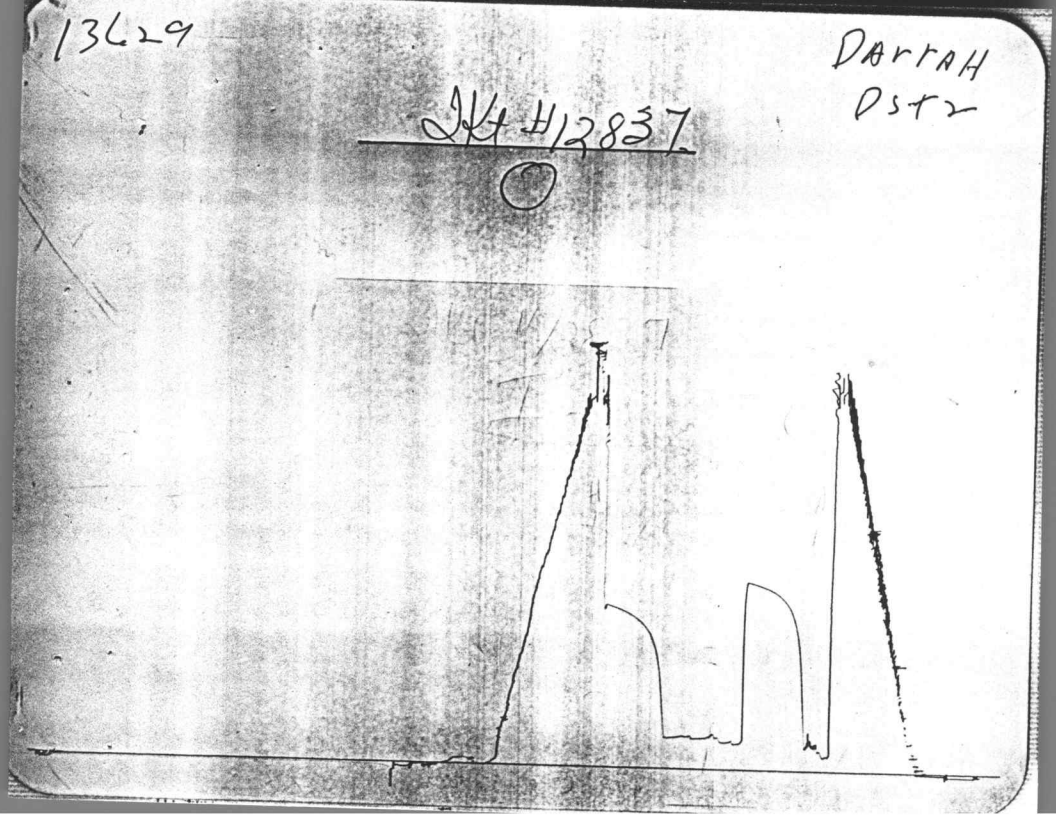
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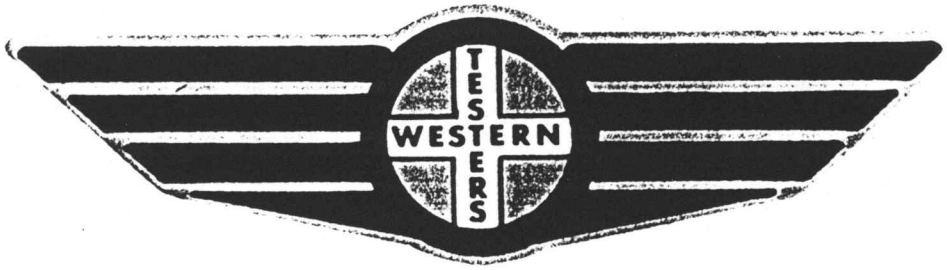
DARRAH
DST 2

JW #12837



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

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

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

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RECOVERED    :      20     FT  OF: CLEAN GASSY OIL
                                   40 GRAVITY @ 84 DEG. 38 CORRECTED
RECOVERED    :      60     FT  OF: OIL CUT MUD
                                   90% MUD-10% OIL
RECOVERED    :     120     FT  OF: HEAVY OIL CUT MUD
                                   50 MUD-30% OIL-20% GAS
RECOVERED    :     120     FT  OF: HEAVY OIL CUT MUD
                                   25% MUD-60% OIL-15% GAS
RECOVERED    :      60     FT  OF: HEAVY OIL CUT MUD
                                   30% MUD-40% OIL-30% GAS

Total Barrels Fluid     =     2.53
Total Fluid Prod Rate   =    45.59 BFPD
Indicated Oil Rate      =    18.95 BOPD
Indicated Wtr Rate      =     1.94 BWPD
Corrected Oil Rate      =    40.16 BOPD
Corrected Wtr Rate      =     4.12 BWPD

REMARK 1   :
REMARK 2   : RECOVERED 100 FEET OF GAS ABOVE FLUID.
REMARK 3   :
REMARK 4   :

SET PACKER(S)  :  7:40 PM              TIME STARTED OFF BOTTOM : 10:30 PM
WELL TEMPERATURE     :   121
INITIAL HYDROSTATIC PRESSURE          (A)  2318
INITIAL FLOW PERIOD        MIN:   20  (B)    77  PSI TO (C) :  132
INITIAL CLOSED IN PERIOD   MIN:   45  (D)  1128
FINAL FLOW PERIOD          MIN:   60  (E)   181  PSI TO (F) :  198
FINAL CLOSED IN PERIOD     MIN:   45  (G)   984
FINAL HYDROSTATIC PRESSURE            (H)  2348
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WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JOHN JAY DARRAH JR.

RIG : TREGO-KANSAS

FIELD : GIESS

WELL : #2

DATE : 10-15-87

GAUGE NO : 1566

OPERATIONAL COMMENTS

RECOVERED 100 FEET OF GAS ABOVE FLUID.

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

FIELD : GIESS
JOB # : 12837
DEPTH : 4515
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7:40: 0	0.000	77.000	121.00	0.000
2	7:44:59	0.083	77.000	121.00	0.000
3	7:50: 0	0.167	80.000	121.00	3.000
4	7:55: 0	0.250	130.000	121.00	50.000
5	7:59:59	0.333	132.000	121.00	2.000
6	8: 2:59	0.383	634.000	121.00	502.000
7	8: 5:59	0.433	802.000	121.00	168.000
8	8: 8:59	0.483	899.000	121.00	97.000
9	8:11:59	0.533	952.000	121.00	53.000
10	8:14:59	0.583	987.000	121.00	35.000
11	8:17:59	0.633	1016.000	121.00	29.000
12	8:20:59	0.683	1035.000	121.00	19.000
13	8:23:59	0.733	1053.000	121.00	18.000
14	8:26:59	0.783	1067.000	121.00	14.000
15	8:29:59	0.833	1083.000	121.00	16.000
16	8:32:59	0.883	1094.000	121.00	11.000
17	8:35:59	0.933	1105.000	121.00	11.000
18	8:38:59	0.983	1113.000	121.00	8.000
19	8:41:59	1.033	1122.000	121.00	9.000
20	8:44:59	1.083	1128.000	121.00	6.000
21	8:46: 0	1.100	181.000	121.00	-947.000
22	8:49:59	1.167	160.000	121.00	-21.000
23	8:55: 0	1.250	172.000	121.00	12.000
24	8:59:59	1.333	174.000	121.00	2.000
25	9: 4:59	1.417	192.000	121.00	18.000
26	9:10: 0	1.500	202.000	121.00	10.000
27	9:14:59	1.583	198.000	121.00	-4.000
28	9:19:59	1.667	198.000	121.00	0.000
29	9:25: 0	1.750	203.000	121.00	5.000
30	9:29:59	1.833	203.000	121.00	0.000
31	9:34:59	1.917	200.000	121.00	-3.000
32	9:40: 0	2.000	198.000	121.00	-2.000
33	9:44:59	2.083	198.000	121.00	0.000
34	9:47:59	2.133	607.000	121.00	409.000
35	9:50:59	2.183	713.000	121.00	106.000
36	9:53:59	2.233	777.000	121.00	64.000
37	9:56:59	2.283	816.000	121.00	39.000
38	9:59:59	2.333	846.000	121.00	30.000
39	10: 2:59	2.383	871.000	121.00	25.000
40	10: 5:59	2.433	892.000	121.00	21.000
41	10: 8:59	2.483	908.000	121.00	16.000
42	10:11:59	2.533	923.000	121.00	15.000
43	10:14:59	2.583	938.000	121.00	15.000
44	10:17:59	2.633	951.000	121.00	13.000
45	10:20:59	2.683	961.000	121.00	10.000
46	10:23:59	2.733	970.000	121.00	9.000
47	10:26:59	2.783	976.000	121.00	6.000
48	10:29:59	2.833	984.000	121.00	8.000

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==========

TRANSMISSIBILTY. . . . . .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	

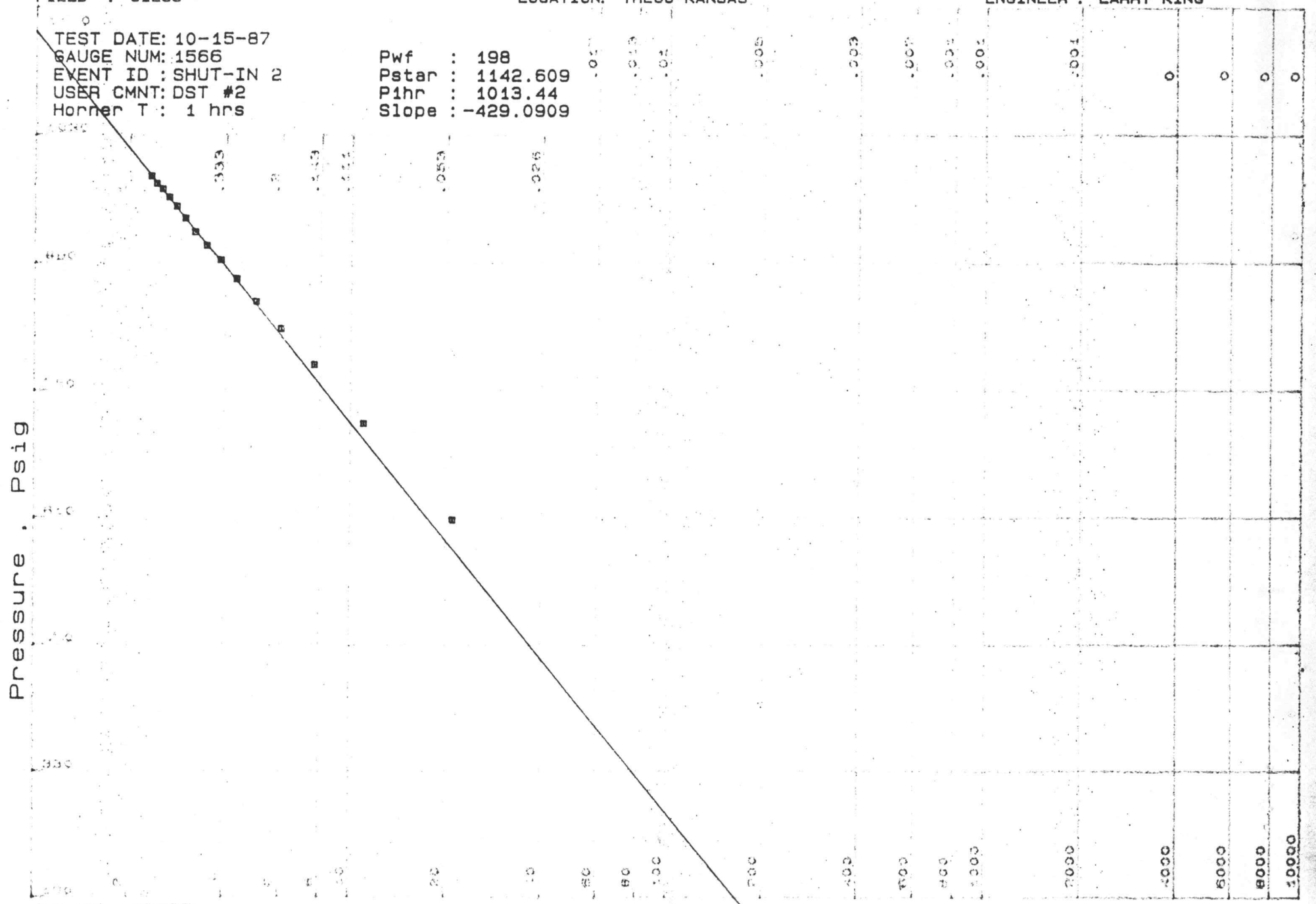
COMPANY: JOHN JAY DARRAH JR.
FIELD : GIESS

WELL # : #2
LOCATION: TREGO-KANSAS

PROCESSED: 11-06-1987
ENGINEER : LARRY KING

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



Job No. 12837
WESTERN TESTING CO. INC.

RES-TRAN

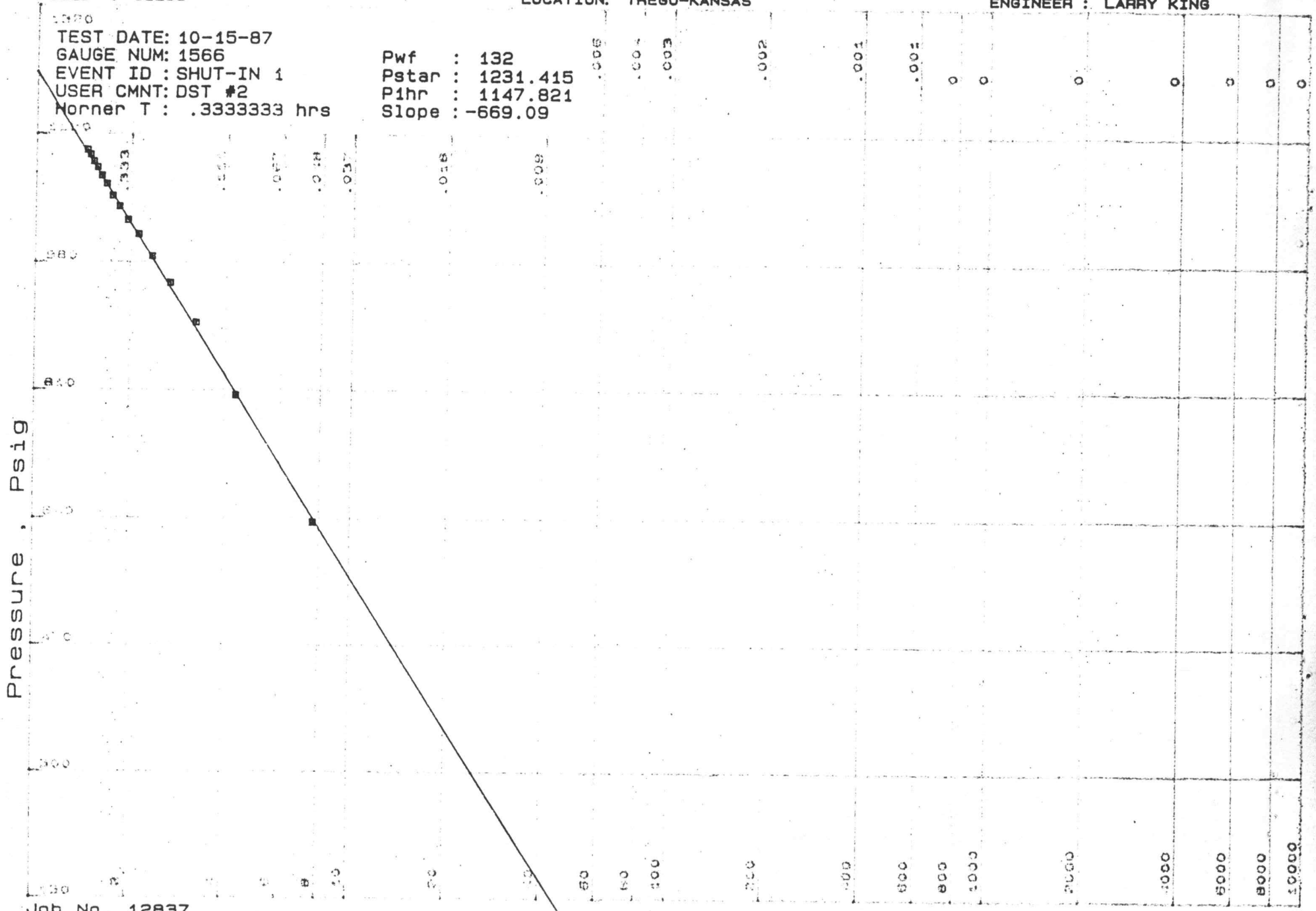
COMPANY: JOHN JAY DARRAH JR.
FIELD : GIESS

WELL # : #2
LOCATION: TREGO-KANSAS

PROCESSED: 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



Job No. 12837
WESTERN TESTING CO. INC.

RES-TRAN