

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	11-23-86	TICKET	:	11400
CUSTOMER	:	F. G. HOLL ESTATE	LEASE	:	DAVIS
WELL	:	#3-4 TEST: 1	GEOLOGIST	:	F. GREENBAUM
ELEVATION	:	2103 GL	FORMATION	:	KANSAS CITY
SECTION	:	4	TOWNSHIP	:	24S
RANGE	:	17W	STATE	:	KANSAS
GAUGE SN#	:	2604	CLOCK	:	12
		COUNTY :	EDWARDS		
		RANGE :	4150		

INTERVAL FROM	:	3734	TO	:	3882	TOTAL DEPTH	:	3882
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3829	SIZE	:	6.75			
PACKER DEPTH	:	3834	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	STERLING RIG #4			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	39
WEIGHT	:	9.2	WATER LOSS (CC)	:	9.2
CHLORIDES (PPM)	:	5000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	405
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	420	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3385	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	29	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	48	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 BLOW BUILDING TO A FAIR BLOW ON BOTH
BLOW COMMENT #2 : FLOW PERIODS.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 150 FT OF: MUD.
RECOVERED : 60 FT OF: WATERY MUD.
RECOVERED : 360 FT OF: WATER.

Total Barrels Fluid = 4.08
Total Fluid Prod Rate = 97.88 BFPD
Indicated Wtr Rate = 94.45 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 55000 PPM
REMARK 3 : SLID TOOL 15 FEET TO BOTTOM.
REMARK 4 :

SET PACKER(S) :	5:45 PM	TIME STARTED OFF BOTTOM :	7:45 PM
WELL TEMPERATURE :	112		
INITIAL HYDROSTATIC PRESSURE		(A)	1880
INITIAL FLOW PERIOD MIN:	30	(B)	97 PSI TO (C) : 251
INITIAL CLOSED IN PERIOD MIN:	30	(D)	1261
FINAL FLOW PERIOD MIN:	30	(E)	297 PSI TO (F) : 315
FINAL CLOSED IN PERIOD MIN:	30	(G)	1248
FINAL HYDROSTATIC PRESSURE		(H)	1848

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : F. G. HOLL ESTATE
RIG : EDWARDS-KANSAS
FIELD : DAVIS
WELL : #3-4
DATE : 11-23-86
GAUGE NO : 2604

OPERATIONAL COMMENTS

CHLORIDES: 55000 PPM
SLID TOOL 15 FEET TO BOTTOM.

COMPANY : F. G. HOLL ESTATE
WELL : #3-4
GAUGE # : 2604
DATE : 23/11/86

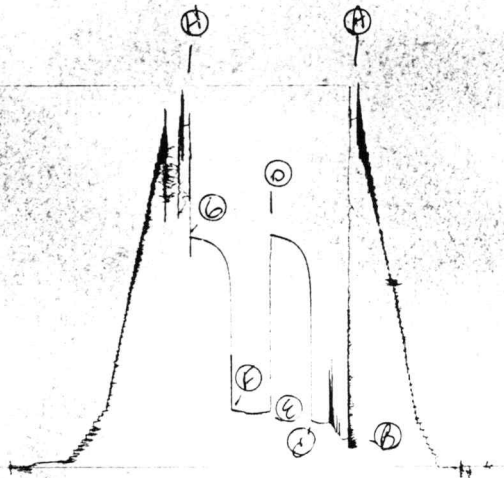
FIELD : DAVIS
JOB # : 11400
DEPTH : 3882
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	5:45: 0	0.000	97.000	44.44	0.000
2	5:49:60	0.083	153.000	44.44	56.000
3	5:55: 1	0.167	189.000	44.44	36.000
4	6: 0: 0	0.250	241.000	44.44	52.000
5	6: 4:60	0.333	241.000	44.44	0.000
6	6:10: 1	0.417	247.000	44.44	6.000
7	6:15: 0	0.500	251.000	44.44	4.000
8	6:18: 0	0.550	1060.000	44.44	809.000
9	6:21: 0	0.600	1137.000	44.44	77.000
10	6:24: 0	0.650	1177.000	44.44	40.000
11	6:27: 0	0.700	1201.000	44.44	24.000
12	6:30: 0	0.750	1219.000	44.44	18.000
13	6:33: 0	0.800	1231.000	44.44	12.000
14	6:36: 0	0.850	1242.000	44.44	11.000
15	6:39: 0	0.900	1250.000	44.44	8.000
16	6:42: 0	0.950	1256.000	44.44	6.000
17	6:45: 0	1.000	1261.000	44.44	5.000
18	6:46: 1	1.017	297.000	44.44	-964.000
19	6:49:60	1.083	297.000	44.44	0.000
20	6:55: 1	1.167	297.000	44.44	0.000
21	7: 0: 0	1.250	297.000	44.44	0.000
22	7: 4:60	1.333	303.000	44.44	6.000
23	7:10: 1	1.417	309.000	44.44	6.000
24	7:15: 0	1.500	315.000	44.44	6.000
25	7:18: 0	1.550	1104.000	44.44	789.000
26	7:21: 0	1.600	1150.000	44.44	46.000
27	7:24: 0	1.650	1179.000	44.44	29.000
28	7:27: 0	1.700	1202.000	44.44	23.000
29	7:30: 0	1.750	1217.000	44.44	15.000
30	7:33: 0	1.800	1229.000	44.44	12.000
31	7:36: 0	1.850	1236.000	44.44	7.000
32	7:39: 0	1.900	1242.000	44.44	6.000
33	7:42: 0	1.950	1246.000	44.44	4.000
34	7:45: 0	2.000	1248.000	44.44	2.000

WESTERN TESTERS INC.

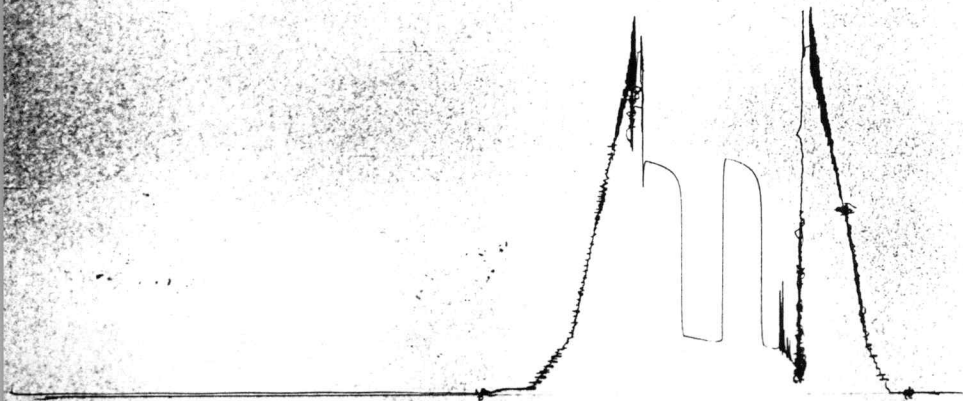
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DST#1

SKT. # 11400
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WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 11-25-86	TICKET	: 11701
CUSTOMER	: F. G. HOLL ESTATE	LEASE	: DAVIS
WELL	: #3-4 TEST: 2	GEOLOGIST	: F. GREENBAUM
ELEVATION	: 2103 GL	FORMATION	: MISSISSIPPI
SECTION	: 4	TOWNSHIP	: 24S
RANGE	: 17W	COUNTY	: EDWARDS
GAUGE SN#	: 2604	STATE	: KANSAS
		CLOCK	: 12
		RANGE	: 4150

INTERVAL FROM	: 4270	TO	: 4330	TOTAL DEPTH	: 4330
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 4265	SIZE	: 6.75		
PACKER DEPTH	: 4270	SIZE	: 6.75		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: STERLING	RIG #4	
MUD TYPE	: CHEMICAL	VISCOSITY	: 48
WEIGHT	: 9.5	WATER LOSS (CC)	: 8.8
CHLORIDES (PPM)	: 7000		
JARS-MAKE	: WTC	SERIAL NUMBER	: 405
DID WELL FLOW ?	: NO	REVERSED OUT ?	:

DRILL COLLAR LENGTH	: 420	FT	I.D. inch	: 2.20
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3821	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 29	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 60	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 : STRONG BLOW THRU BOTH BOTH FLOW PERIODS.
BLOW COMMENT #2 : GAS TO SURFACE IN 30 MINUTES ON THE FINAL FLOW.
BLOW COMMENT #3 : SEE ATTACHED FLOW CHART.
BLOW COMMENT #4 :

RECOVERED : 210 FT OF: GASSY MUD.

Total Barrels Fluid = 0.99
Total Fluid Prod Rate = 15.80 BFPD
Indicated Wtr Rate = 14.22 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 8000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 6:05 AM

TIME STARTED OFF BOTTOM : 9:05 AM

WELL TEMPERATURE : 116

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 27

FINAL FLOW PERIOD MIN: 60

FINAL CLOSED IN PERIOD MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 2133

(B) 143 PSI TO (C) : 143

(D) 317

(E) 112 PSI TO (F) : 134

(G) 451

(H) 2124

GAS FLOW REPORT

Date : 11-25-86
Customer : F. G. HOLL ESTATE

Ticket # : 11701
Lease : DAVIS

Well : #3-4 Test : 2

Geologist : F. GREENBAUM

Elevation (KB) : 2108 Formation : MISSISSIPPI

Section : 4 Township : 24S

Range : 17W County : EDWARDS State : KANSAS

Gauge SN # : 2604 Range : 4150 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

SECOND FLOW

30				GAS TO SURFACE
40	MERLA	1/2"	4 " WTR	12500 CFPD
50	MERLA	1/2"	4 " WTR	12500 CFPD
60	MERLA	1/2"	4 " WTR	12500 CFPD

Gas Bottle SN # :
Date Bottle Filled :
Date to be Invoiced :

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : F. G. HOLL ESTATE
RIG : EDWARDS-KANSAS
FIELD : DAVIS
WELL : #3-4
DATE : 11-25-86
GAUGE NO : 2604

OPERATIONAL COMMENTS

CHLORIDES: 8000 PPM

COMPANY : F. G. HOLL ESTATE
WELL : #3-4
GAUGE # : 2604
DATE : 25/11/86

FIELD : DAVIS
JOB # : 11701
DEPTH : 4330
TEST :

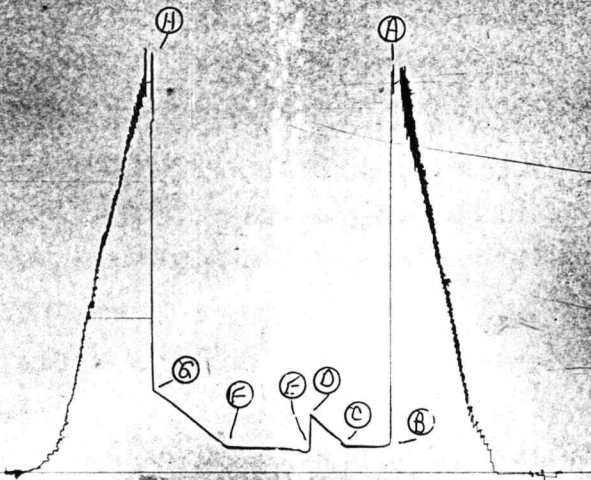
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	6: 5: 0	0.000	143.000	46.67	0.000
2	6: 9: 60	0.083	143.000	46.67	0.000
3	6:15: 1	0.167	143.000	46.67	0.000
4	6:20: 0	0.250	143.000	46.67	0.000
5	6:24: 60	0.333	143.000	46.67	0.000
6	6:30: 1	0.417	143.000	46.67	0.000
7	6:35: 0	0.500	143.000	46.67	0.000
8	6:38: 0	0.550	156.000	46.67	13.000
9	6:41: 0	0.600	181.000	46.67	25.000
10	6:44: 0	0.650	198.000	46.67	17.000
11	6:47: 0	0.700	213.000	46.67	15.000
12	6:50: 0	0.750	233.000	46.67	20.000
13	6:53: 0	0.800	252.000	46.67	19.000
14	6:56: 0	0.850	272.000	46.67	20.000
15	6:59: 0	0.900	297.000	46.67	25.000
16	7: 2: 0	0.950	317.000	46.67	20.000
17	7: 3: 1	0.967	112.000	46.67	-205.000
18	7: 6: 60	1.033	112.000	46.67	0.000
19	7:12: 1	1.117	124.000	46.67	12.000
20	7:17: 0	1.200	126.000	46.67	2.000
21	7:21: 60	1.283	127.000	46.67	1.000
22	7:27: 1	1.367	128.000	46.67	1.000
23	7:32: 0	1.450	129.000	46.67	1.000
24	7:36: 60	1.533	130.000	46.67	1.000
25	7:42: 1	1.617	131.000	46.67	1.000
26	7:47: 0	1.700	132.000	46.67	1.000
27	7:51: 60	1.783	133.000	46.67	1.000
28	7:57: 1	1.867	134.000	46.67	1.000
29	8: 2: 0	1.950	134.000	46.67	0.000
30	8: 5: 0	2.000	139.000	46.67	5.000
31	8: 8: 0	2.050	160.000	46.67	21.000
32	8:11: 0	2.100	173.000	46.67	13.000
33	8:14: 0	2.150	190.000	46.67	17.000
34	8:17: 0	2.200	205.000	46.67	15.000
35	8:20: 0	2.250	222.000	46.67	17.000
36	8:23: 0	2.300	242.000	46.67	20.000
37	8:26: 0	2.350	262.000	46.67	20.000
38	8:29: 0	2.400	282.000	46.67	20.000
39	8:32: 0	2.450	300.000	46.67	18.000
40	8:35: 0	2.500	318.000	46.67	18.000
41	8:38: 0	2.550	335.000	46.67	17.000
42	8:41: 0	2.600	352.000	46.67	17.000
43	8:44: 0	2.650	372.000	46.67	20.000
44	8:47: 0	2.700	387.000	46.67	15.000
45	8:50: 0	2.750	404.000	46.67	17.000
46	8:53: 0	2.800	419.000	46.67	15.000
47	8:56: 0	2.850	432.000	46.67	13.000
48	8:59: 0	2.900	443.000	46.67	11.000
49	9: 2: 0	2.950	451.000	46.67	8.000

WESTERN TESTERS INC.

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