WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/13/83 TICKET #1271
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 1 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: HARRINGTON
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2150 FT TO: 2175 FT TOTAL DEPTH: 2175 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2145 FT SIZE: 6 3/4 IN PACKER DEPTH: 2150 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: PREMIX VISCOSITY: 33
WEIGHT: 9.4 WATER LOSS (CC): N/C
CHLORIDES (P.P.M.): 80000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 124 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2006 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 25 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW
IN 5 MINUTES.
FINAL FLOW PERIOD STRONG BLOW-
WOULDN'T MAINTAIN 2 INCH FLOW LINE.

RECOVERED: 330 FT OF: GASSY WATER
RECOVERED: FT OF: CHLORIDES 115000 PPM
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 3:05 AM TIME STARTED OFF BOTTOM: 5:50 AM
WELL TEMPERATURE: 90 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1072	PSI
INITIAL FLOW PERIOD	MIN: 15	(B) 89	PSI TO (C) 69 PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 649	PSI
FINAL FLOW PERIOD	MIN: 60	(E) 144	PSI TO (F) 131 PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 681	PSI
FINAL HYDROSTATIC PRESSURE		(H) 1040	PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/13/83 TICKET #1271
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 1 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: HARRINGTON
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1072	PSI
(B) FIRST INITIAL FLOW PRESSURE:	89	PSI
(C) FIRST FINAL FLOW PRESSURE:	69	PSI
(D) INITIAL CLOSED-IN PRESSURE:	649	PSI
(E) SECOND INITIAL FLOW PRESSURE:	144	PSI
(F) SECOND FINAL FLOW PRESSURE:	131	PSI
(G) FINAL CLOSED-IN PRESSURE:	681	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1040	PSI
WELL TEMPERATURE:	90	'F

OPEN TOOL: 3:05 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	5	MIN	15	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	60	MIN	60	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	60	MIN

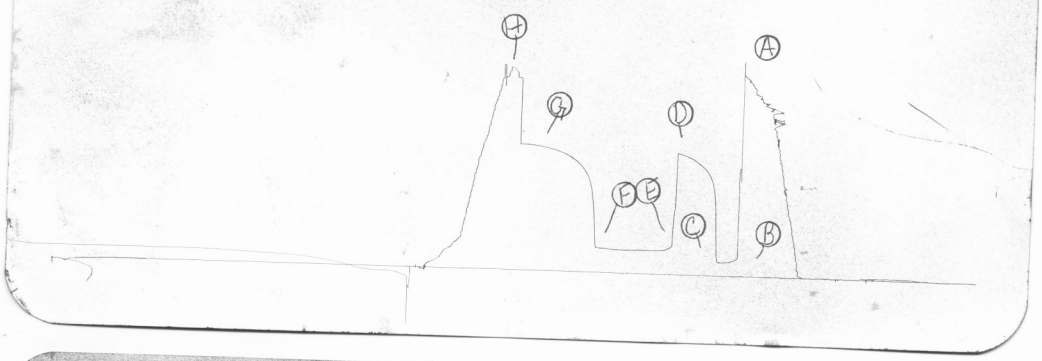
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	89	0	69	0	144	0	131
2	5	73	3	408	5	129	3	358
3	10	69	6	514	10	125	6	490
4	15	69	9	558	15	123	9	537
5			12	579	20	123	12	566
6			15	595	25	123	15	587
7			18	612	30	123	18	606
8			21	626	35	123	21	620
9			24	635	40	123	24	630
10			27	643	45	123	27	640
11			30	649	50	127	30	649
12					55	129	33	655
13					60	131	36	659
14							39	663
15							42	667
16							45	671
17							48	674
18							51	676
19							54	678
20							57	680
21							60	681
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2606 DST #1

IKT # 1271

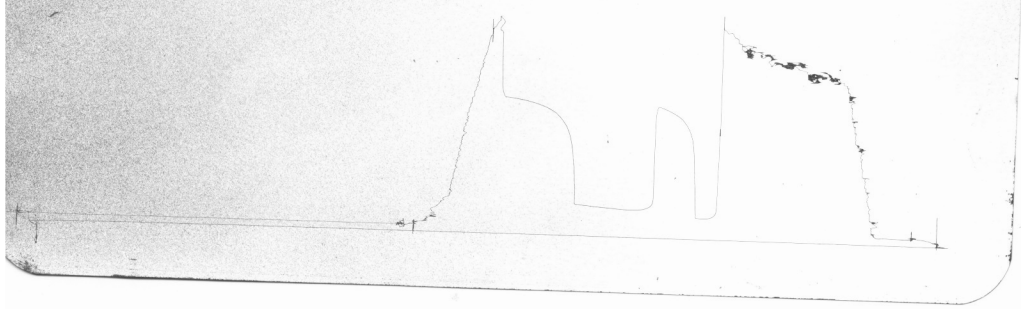
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13267 DST #1

IKT # 1271

O



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/14/83 TICKET #1272
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 2 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: INDIAN CAVE
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2890 FT TO: 2930 FT TOTAL DEPTH: 2930 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2885 FT SIZE: 6 3/4 IN PACKER DEPTH: 2890 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: DRISPAC VISCOSITY: 35
WEIGHT: 9.5 WATER LOSS (CC): 91.2
CHLORIDES (P.P.M.): 42000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 124 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2746 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 40 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD VERY WEAK BLOW
FOR 10 MINUTES.
FINAL FLOW PERIOD VERY WEAK BLOW-FLUSHED
TOOL- BLOW DIED IN 5 MINUTES.

RECOVERED: 15 FT OF: DRILLING MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 3:00 PM TIME STARTED OFF BOTTOM: 5:00 PM
WELL TEMPERATURE: 105 °F

INITIAL HYDROSTATIC PRESSURE:		(A) 1475	PSI
INITIAL FLOW PERIOD	MIN: 30	(B) 85 PSI TO (C) 53	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 53	PSI
FINAL FLOW PERIOD	MIN: 30	(E) 53 PSI TO (F) 64	PSI
FINAL CLOSED IN PERIOD	MIN: 30	(G) 64	PSI
FINAL HYDROSTATIC PRESSURE		(H) 1467	PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/14/83 TICKET #1272
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 2 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: INDIAN CAVE
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1475	PSI
(B) FIRST INITIAL FLOW PRESSURE:	85	PSI
(C) FIRST FINAL FLOW PRESSURE:	53	PSI
(D) INITIAL CLOSED-IN PRESSURE:	53	PSI
(E) SECOND INITIAL FLOW PRESSURE:	53	PSI
(F) SECOND FINAL FLOW PRESSURE:	64	PSI
(G) FINAL CLOSED-IN PRESSURE:	64	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1467	PSI
WELL TEMPERATURE:	105	'F

OPEN TOOL: 3:00 PM

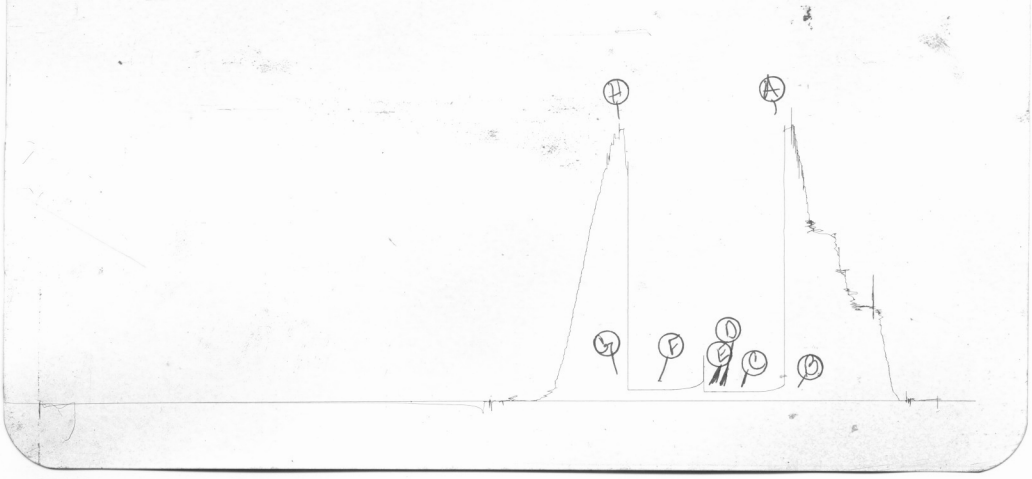
	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	30	MIN	30	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	30	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	85	0	53	0	53	0	64
2	5	67	3	53	5	83	3	64
3	10	58	6	53	10	75	6	64
4	15	54	9	53	15	69	9	64
5	20	53	12	53	20	64	12	64
6	25	53	15	53	25	64	15	64
7	30	53	18	53	30	64	18	64
8			21	53			21	64
9			24	53			24	64
10			27	53			27	64
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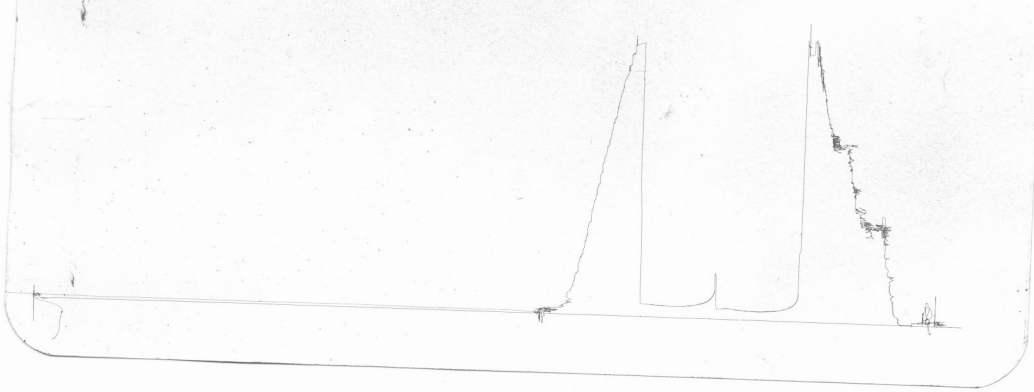
2666 DST #2

TK# 1272
I.



13267 DST #2

TK# 1272
O.



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/15/83 TICKET #1273
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 3 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: WABUNSEE
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2955 FT TO: 3005 FT TOTAL DEPTH: 3005 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2950 FT SIZE: 6 3/4 IN PACKER DEPTH: 2955 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: DRISPAC VISCOSITY: 36
WEIGHT: 9.4 WATER LOSS (CC): 91.3
CHLORIDES (P.P.M.): 42000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 124 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2811 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 50 FT SIZE: 5.5-4.5 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 1 MINUTES ON
FINAL FLOW PERIOD.
SEE ATTACHED GAS SHEET.

RECOVERED: 300 FT OF: WATER
RECOVERED: FT OF: CHLORIDES 110000 PPM
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 4:00 AM TIME STARTED OFF BOTTOM: 7:15 AM
WELL TEMPERATURE: 106 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1508	PSI	
INITIAL FLOW PERIOD	MIN: 10	(B) 110	PSI TO (C) 81	PSI
INITIAL CLOSED IN PERIOD	MIN: 36	(D) 985	PSI	
FINAL FLOW PERIOD	MIN: 55	(E) 121	PSI TO (F) 123	PSI
FINAL CLOSED IN PERIOD	MIN: 90	(G) 962	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1481	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/15/83 TICKET #1273
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 3 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: WABUNSEE
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1508	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	110	PSI
(C)	FIRST FINAL FLOW PRESSURE:	81	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	985	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	121	PSI
(F)	SECOND FINAL FLOW PRESSURE:	123	PSI
(G)	FINAL CLOSED-IN PRESSURE:	962	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1481	PSI
WELL TEMPERATURE:		106	°F

OPEN TOOL: 4:00 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	15	MIN	10	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	36	MIN
SECOND FLOW PRESSURE:	60	MIN	55	MIN
FINAL CLOSED-IN PRESSURE:	90	MIN	90	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	110	0	81	0	121	0	123
2	5	94	3	529	5	102	3	421
3	10	81	6	757	10	98	6	616
4			9	842	15	98	9	707
5			12	881	20	98	12	750
6			15	908	25	99	15	786
7			18	925	30	101	18	813
8			21	940	35	104	21	834
9			24	954	40	108	24	852
10			27	963	45	112	27	865
11			30	971	50	116	30	877
12			33	979	55	123	33	888
13			36	985			36	898
14							39	906
15							42	913
16							45	919
17							48	925
18							51	929
19							54	933
20							57	937
21							60	940
22							63	943
23							66	946
24							69	948
25							72	950
26							75	952
27							78	954
28							81	956
29							84	958
30							87	960

PRESSURE BREAKDOWN - CONT. TICKET #1273

PT	FIRST FLOW MIN	FIRST FLOW PRESSURE	INITIAL SHUT-IN MIN	INITIAL SHUT-IN PRESSURE	SECOND FLOW MIN	SECOND FLOW PRESSURE	FINAL SHUT-IN MIN	FINAL SHUT-IN PRESSURE
31							90	962
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WESTERN TESTING CO. INC.
GAS FLOW REPORT

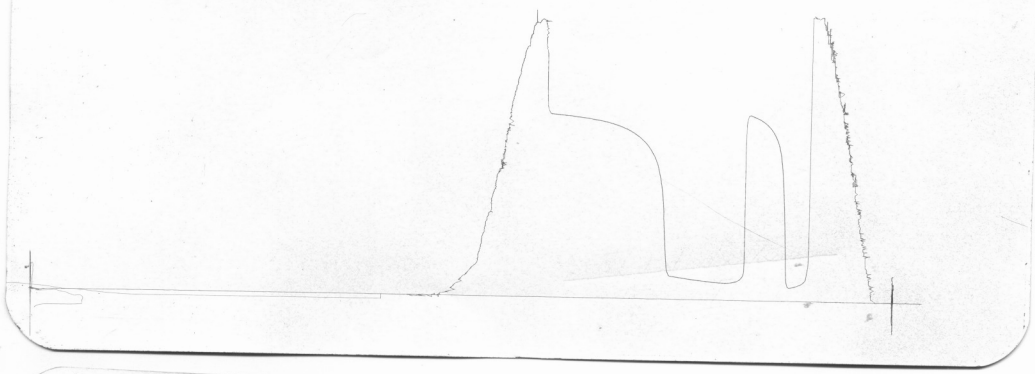
DATE: 8/15/83 TICKET #1273
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 3 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: WABUNSEE
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
				PRE FLOW
				SECOND FLOW
1				GAS TO SURFACE
10	MERLA	1/2	15" WTR	24500 CFPD
20		1/2	5" WTR	14100 CFPD
30		1/2	5" WTR	14100 CFPD
40		1/2	5" WTR	14100 CFPD
50		1/2	5" WTR	14100 CFPD
60		1/2	5" WTR	14100 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 8/15/83

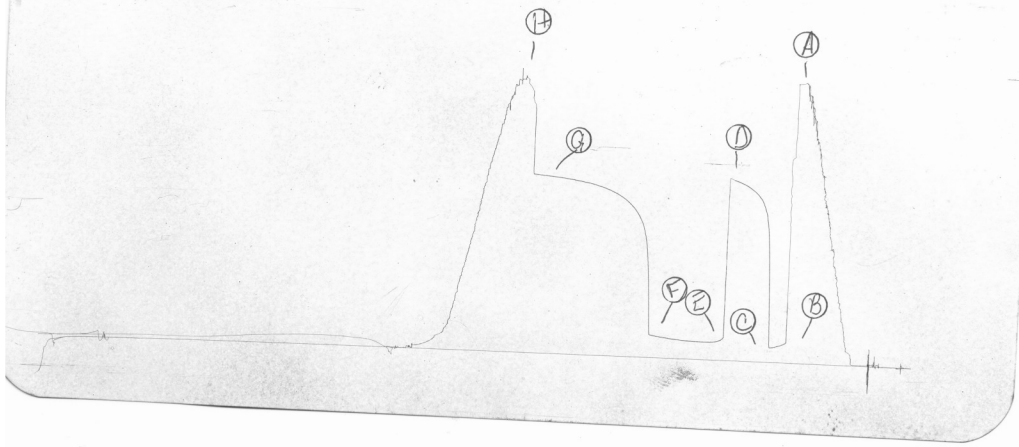
13267 DST#3

Tkt#1273
O.



2606 DST#3

Tkt#1273
I.



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/16/83 TICKET #1274
CUSTOMER: GRAVES DRLG CO. INC. LEASE: BRYAN
WELL: 1 TEST: 4 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: BERN LIME
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 3172 FT TO: 3192 FT TOTAL DEPTH: 3192 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3167 FT SIZE: 6 3/4 IN PACKER DEPTH: 3172 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: COMPANY TOOLS
MUD TYPE: DRISPAC VISCOSITY: 35
WEIGHT: 9.4 WATER LOSS (CC): 88.4
CHLORIDES (P.P.M.): 35000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? YES
DRILL COLLAR LENGTH: 124 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3028 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 20 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW.
GAS TO SURFACE IN 3 MINUTES.
SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

RECOVERED: 1500 FT OF: WATER. CHLORIDES 116000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SLID TOOL 10' TO BOTTOM.

TIME SET PACKER(S): 1:45 AM TIME STARTED OFF BOTTOM: 4:00 AM
WELL TEMPERATURE: 110 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1590 PSI
INITIAL FLOW PERIOD MIN: 20 (B) 260 PSI TO (C) 364 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1108 PSI
FINAL FLOW PERIOD MIN: 30 (E) 517 PSI TO (F) 704 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1128 PSI
FINAL HYDROSTATIC PRESSURE (H) 1570 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/16/83 TICKET #1274
CUSTOMER: GRAVES DRLG CO. INC. LEASE: BRYAN
WELL: 1 TEST: 4 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: BERN LIME
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1590	PSI
(B) FIRST INITIAL FLOW PRESSURE:	260	PSI
(C) FIRST FINAL FLOW PRESSURE:	364	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1108	PSI
(E) SECOND INITIAL FLOW PRESSURE:	517	PSI
(F) SECOND FINAL FLOW PRESSURE:	704	PSI
(G) FINAL CLOSED-IN PRESSURE:	1128	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1570	PSI
WELL TEMPERATURE:	110	'F

OPEN TOOL: 1:45 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	15	MIN	20	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	30	MIN	30	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	60	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	260	0	364	0	517	0	704
2	5	260	3	952	5	520	3	1004
3	10	275	6	1010	10	530	6	1037
4	15	314	9	1035	15	564	9	1055
5	20	364	12	1056	20	612	12	1065
6			15	1070	25	653	15	1072
7			18	1080	30	704	18	1079
8			21	1087			21	1086
9			24	1094			24	1093
10			27	1101			27	1100
11			30	1108			30	1107
12							33	1111
13							36	1115
14							39	1118
15							42	1120
16							45	1122
17							48	1124
18							51	1125
19							54	1126
20							57	1127
21							60	1128
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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 8/16/83 TICKET #1274
CUSTOMER: GRAVES DRLG CO. INC. LEASE: BRYAN
WELL: 1 TEST: 4 GEOLOGIST: ROBY
ELEVATION (KB): 1973 FORMATION: BERN LIME
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

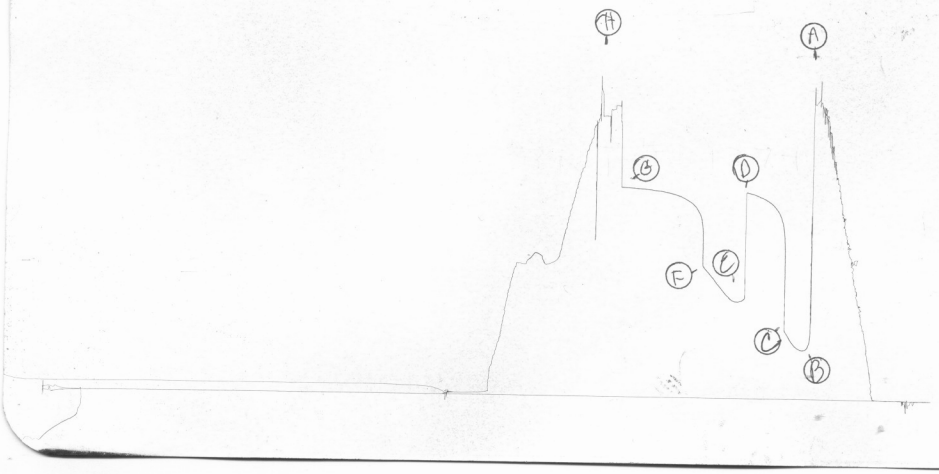
TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
			PRE FLOW	
3	MERLA	1/2		GAS TO SURFACE
5			15"OFWTR	24500 CFPD
10			8"OF WTR	17200 CFPD
15			5"OF WTR	14100 CFPD
			SECOND FLOW	
10	MERLA	1/2	1"OF WTR	6270 CFPD
20			1"OF WTR	6270 CFPD
30			1"OF WTR	6270 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:

2606 DST #4

TKT # 1274

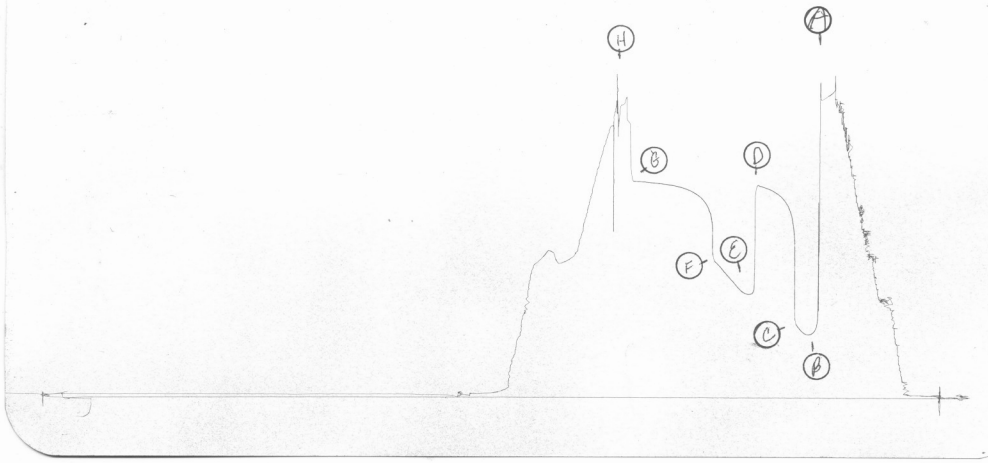
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13267 DST #4

TKT # 1274

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/18/83 TICKET #1275
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 5 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: KANSAS CITY
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4101 FT TO: 4174 FT TOTAL DEPTH: 4174 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4096 FT SIZE: 6 3/4 IN PACKER DEPTH: 4101 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: DRISPAC VISCOSITY: 42
WEIGHT: 9.01 WATER LOSS (CC): 42.0
CHLORIDES (P.P.M.): 15000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 124 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3957 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 73 FT SIZE: 4.5+5.50D IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD WEAK STEADY BLOW.
FINAL FLOW PERIOD WEAK TO VERY WEAK BLOW.

RECOVERED: 120 FT OF: MUD
RECOVERED: 120 FT OF: MUD CUT WATER
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 7:45 PM TIME STARTED OFF BOTTOM: 10:45 PM
WELL TEMPERATURE: 120 °F

INITIAL HYDROSTATIC PRESSURE:		(A) 2006	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 61	PSI TO (C) 72	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 1383	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 105	PSI TO (F) 123	PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 1397	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1970	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/18/83 TICKET #1275
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 5 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: KANSAS CITY
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2006	PSI
(B) FIRST INITIAL FLOW PRESSURE:	61	PSI
(C) FIRST FINAL FLOW PRESSURE:	72	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1383	PSI
(E) SECOND INITIAL FLOW PRESSURE:	105	PSI
(F) SECOND FINAL FLOW PRESSURE:	123	PSI
(G) FINAL CLOSED-IN PRESSURE:	1397	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1970	PSI
WELL TEMPERATURE:	120	°F

OPEN TOOL: 7:45 PM

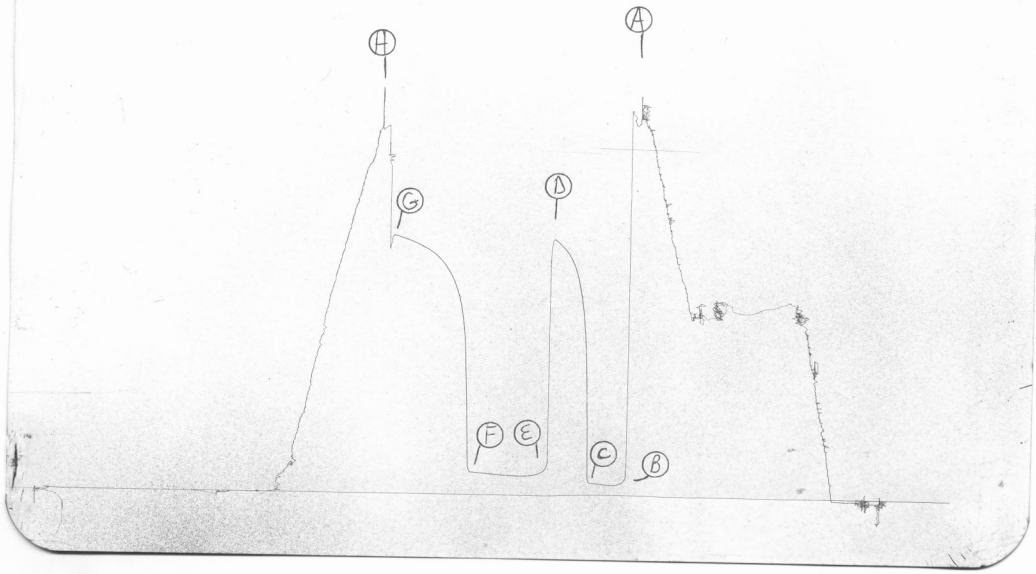
	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	30 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	61	0	72	0	105	0	123
2	5	61	3	881	5	105	3	879
3	10	61	6	1079	10	105	6	1023
4	15	63	9	1180	15	105	9	1099
5	20	68	12	1244	20	106	12	1157
6	25	72	15	1288	25	107	15	1201
7	30	72	18	1321	30	108	18	1234
8			21	1344	35	111	21	1259
9			24	1367	40	114	24	1282
10			27	1383	45	116	27	1302
11			30	1383	50	118	30	1317
12					55	120	33	1328
13					60	123	36	1342
14							39	1351
15							42	1361
16							45	1369
17							48	1377
18							51	1386
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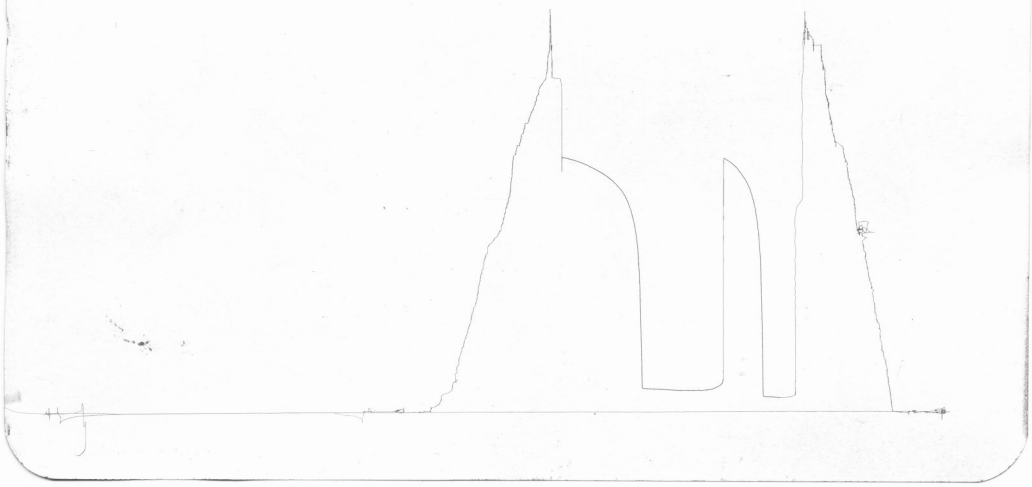
IKT # 1275

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IKT # 1275

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/19/83 TICKET #1826
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 6 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: KANSAS CITY
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #13267 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4182 FT TO: 4214 FT TOTAL DEPTH: 4214 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4177 FT SIZE: 6 3/4 IN PACKER DEPTH: 4182 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: DRISPAC VISCOSITY: 43
WEIGHT: 9.3 WATER LOSS (CC): 44.6
CHLORIDES (P.P.M.): 17000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 124 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4038 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 32 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD WEAK TO GOOD BLOW.
FINAL FLOW PERIOD GOOD TO STRONG BLOW
IN 30 MINUTES.

RECOVERED: 250 FT OF: GAS IN PIPE
RECOVERED: 90 FT OF: OIL & GAS CUT MUD
RECOVERED: FT OF: 10% GAS; 7% OIL; 13% WATER; 70% MUD
RECOVERED: 160 FT OF: GAS & SLIGHTLY OIL CUT MUDDY WATER
RECOVERED: FT OF: 15% GAS; 5% OIL; 20% MUD; 60% WATER
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: CHLORIDES 98000 PPM
READ RECORDER 13267

TIME SET PACKER(S): 11:45 AM TIME STARTED OFF BOTTOM: 1:55 PM
WELL TEMPERATURE: 120 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2083	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 97	PSI TO (C) 102	PSI
INITIAL CLOSED IN PERIOD	MIN: 45	(D) 1334	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 128	PSI TO (F) 139	PSI
FINAL CLOSED IN PERIOD	MIN: 57	(G) 1295	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1992	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/19/83 — TICKET #1826
CUSTOMER: GRAVES DRILLING CO. INC. — LEASE: BRYAN
WELL: 1 — TEST: 6 — GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 — FORMATION: KANSAS CITY
SECTION: 32 — TOWNSHIP: 28S
RANGE: 13W — COUNTY: PRATT — STATE: KANSAS
GAUGE SN #13267 — RANGE: 4050 — CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2083	PSI
(B) FIRST INITIAL FLOW PRESSURE:	97	PSI
(C) FIRST FINAL FLOW PRESSURE:	102	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1334	PSI
(E) SECOND INITIAL FLOW PRESSURE:	128	PSI
(F) SECOND FINAL FLOW PRESSURE:	139	PSI
(G) FINAL CLOSED-IN PRESSURE:	1295	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1992	PSI
WELL TEMPERATURE:	120	'F

OPEN TOOL: 11:45 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	45	MIN	45	MIN
SECOND FLOW PRESSURE:	60	MIN	60	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	57	MIN

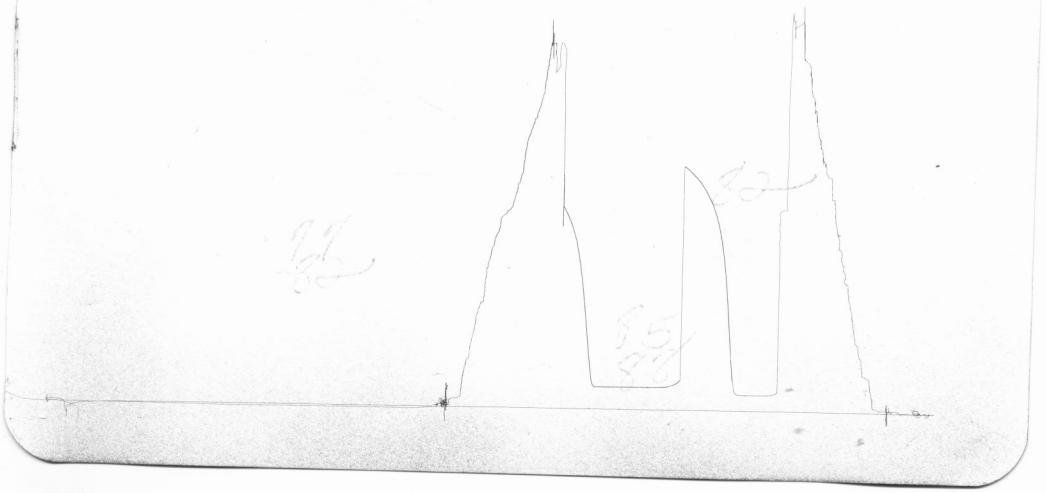
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	97	0	102	0	128	0	139
2	5	97	3	109	5	128	3	163
3	10	97	6	144	10	128	6	272
4	15	97	9	312	15	128	9	462
5	20	98	12	570	20	128	12	661
6	25	100	15	783	25	128	15	807
7	30	102	18	923	30	128	18	919
8			21	1026	35	129	21	988
9			24	1099	40	130	24	1043
10			27	1157	45	132	27	1087
11			30	1197	50	134	30	1126
12			33	1237	55	136	33	1153
13			36	1264	60	139	36	1182
14			39	1289			39	1205
15			42	1313			42	1226
16			45	1334			45	1245
17							48	1260
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2606 - DST # 6

TKT # 1826

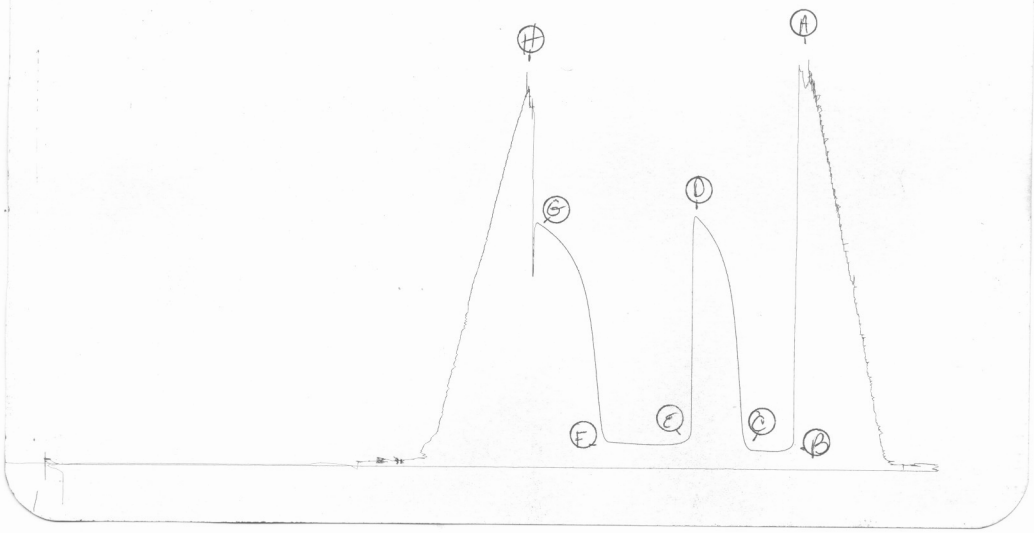
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13267 DST #6

TKT # 1826

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/20/83 TICKET #1827
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 7 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: MISSISSIPPI
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4357 FT TO: 4417 FT TOTAL DEPTH: 4417 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4352 FT SIZE: 6 3/4 IN PACKER DEPTH: 4357 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: CHEMICAL VISCOSITY: 41
WEIGHT: 9.1 WATER LOSS (CC): 20.0
CHLORIDES (P.P.M.): 17500
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 124 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4213 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 60 FT SIZE: 4.5+5.50D IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW IN
8 MINUTES.
FINAL FLOW PERIOD STRONG BLOW.
NO GAS TO SURFACE.

RECOVERED: 180 FT OF: GAS IN PIPE
RECOVERED: 50 FT OF: GAS CUT MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:10 PM TIME STARTED OFF BOTTOM: 8:55 PM
WELL TEMPERATURE: 122 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2165 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 104 PSI TO (C) 55 PSI
INITIAL CLOSED IN PERIOD MIN: 45 (D) 162 PSI
FINAL FLOW PERIOD MIN: 50 (E) 100 PSI TO (F) 64 PSI
FINAL CLOSED IN PERIOD MIN: 45 (G) 105 PSI
FINAL HYDROSTATIC PRESSURE (H) 2111 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/20/83 TICKET #1827
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 7 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: MISSISSIPPI
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2165	PSI
(B) FIRST INITIAL FLOW PRESSURE:	104	PSI
(C) FIRST FINAL FLOW PRESSURE:	55	PSI
(D) INITIAL CLOSED-IN PRESSURE:	162	PSI
(E) SECOND INITIAL FLOW PRESSURE:	100	PSI
(F) SECOND FINAL FLOW PRESSURE:	64	PSI
(G) FINAL CLOSED-IN PRESSURE:	105	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2111	PSI
WELL TEMPERATURE:	122	'F

OPEN TOOL: 6:10 PM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	45 MIN	45 MIN
SECOND FLOW PRESSURE:	45 MIN	50 MIN
FINAL CLOSED-IN PRESSURE:	45 MIN	45 MIN

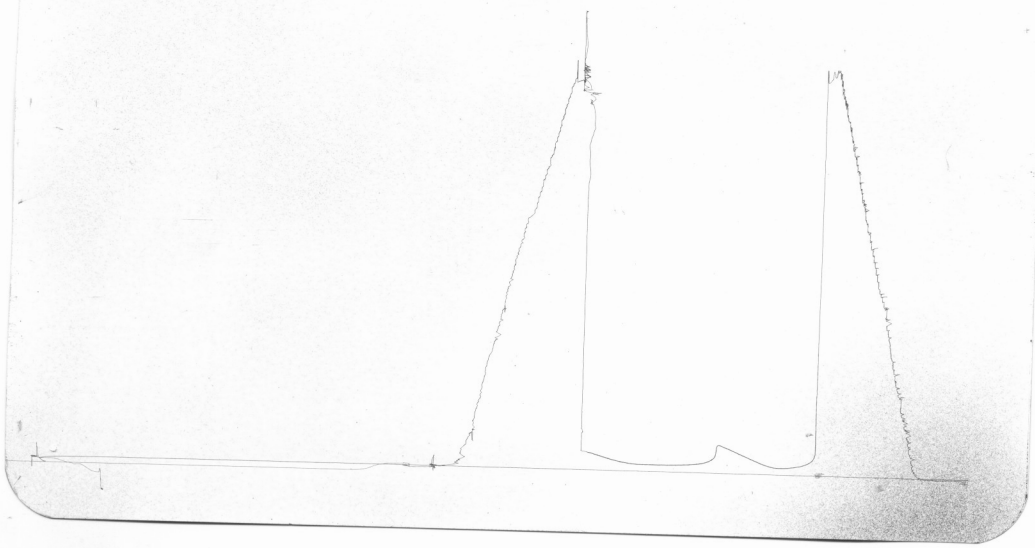
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	104	0	55	0	100	0	64
2	5	82	3	56	5	80	3	64
3	10	72	6	60	10	73	6	64
4	15	64	9	64	15	69	9	64
5	20	60	12	71	20	67	12	64
6	25	57	15	78	25	66	15	64
7	30	55	18	85	30	65	18	67
8			21	94	35	64	21	68
9			24	104	40	64	24	72
10			27	114	45	64	27	77
11			30	123	50	64	30	80
12			33	132			33	84
13			36	141			36	92
14			39	149			39	97
15			42	157			42	102
16			45	162			45	105
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12267 DST #1

TKT # 1827

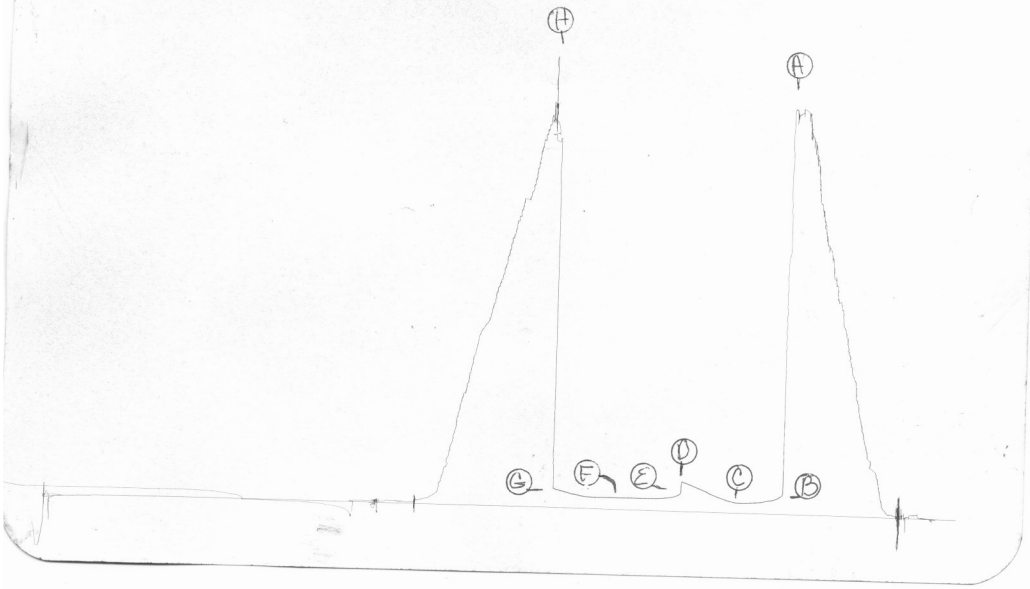
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2606 DST #2

TKT #1827

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/21/83 TICKET #1828
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 8 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: SIMPSON SAND
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4470 FT TO: 4498 FT TOTAL DEPTH: 4498 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4465 FT SIZE: 6 3/4 IN PACKER DEPTH: 4470 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: CHEMICAL VISCOSITY: 44
WEIGHT: 9.2 WATER LOSS (CC): 18.2
CHLORIDES (P.P.M.): 17500
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT?

DRILL COLLAR LENGTH:	124	FT	I.D.:	2 1/4	IN
WEIGHT PIPE LENGTH:		FT	I.D.:		IN
DRILL PIPE LENGTH:	4326	FT	I.D.:	3.8	IN
TEST TOOL LENGTH:	20	FT	TOOL SIZE:	5 1/2 OD	IN
ANCHOR LENGTH:	28	FT	SIZE:	5 1/2 OD	IN
SURFACE CHOKE SIZE:	3/4	IN	BOTTOM CHOKE SIZE:	3/4	IN
MAIN HOLE SIZE:	7 7/8	IN	TOOL JOINT SIZE:	4 1/2 FH	IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW
IN 5 MINUTES.
FINAL FLOW PERIOD STRONG BLOW -
WOULDN'T MAINTAIN 2 INCH FLOW LINE.

RECOVERED:	1320	FT	OF: GAS IN PIPE
RECOVERED:	135	FT	OF: GAS CUT MUD
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:
RECOVERED:		FT	OF:

REMARKS: NO GAS TO SURFACE.

TIME SET PACKER(S): 11:55 AM TIME STARTED OFF BOTTOM: 2:40 PM
WELL TEMPERATURE: 121 °F

INITIAL HYDROSTATIC PRESSURE:		(A) 2194	PSI		
INITIAL FLOW PERIOD	MIN: 25	(B) 114	PSI TO (C) 79		PSI
INITIAL CLOSED IN PERIOD	MIN: 45	(D) 379	PSI		
FINAL FLOW PERIOD	MIN: 40	(E) 92	PSI TO (F) 68		PSI
FINAL CLOSED IN PERIOD	MIN: 51	(G) 478	PSI		
FINAL HYDROSTATIC PRESSURE		(H) 2140	PSI		

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/21/83 TICKET #1828
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 8 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: SIMPSON SAND
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2194	PSI
(B) FIRST INITIAL FLOW PRESSURE:	114	PSI
(C) FIRST FINAL FLOW PRESSURE:	79	PSI
(D) INITIAL CLOSED-IN PRESSURE:	379	PSI
(E) SECOND INITIAL FLOW PRESSURE:	92	PSI
(F) SECOND FINAL FLOW PRESSURE:	68	PSI
(G) FINAL CLOSED-IN PRESSURE:	478	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2140	PSI
WELL TEMPERATURE:	121	'F

OPEN TOOL: 11:55 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	25	MIN
INITIAL CLOSED-IN PRESSURE:	45	MIN	45	MIN
SECOND FLOW PRESSURE:	45	MIN	40	MIN
FINAL CLOSED-IN PRESSURE:	45	MIN	51	MIN

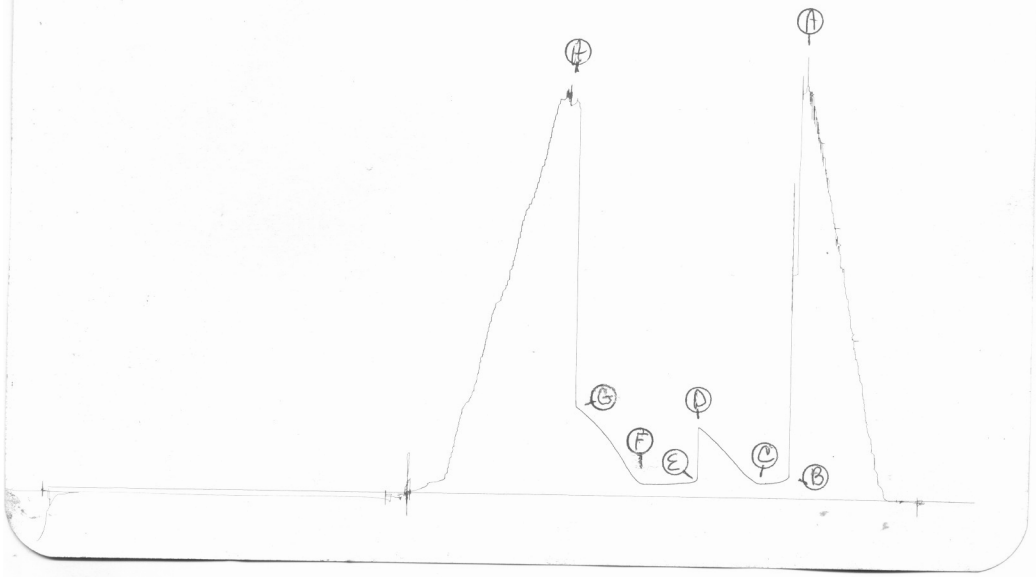
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	114	0	79	0	92	0	68
2	5	95	3	86	5	80	3	83
3	10	87	6	103	10	77	6	104
4	15	82	9	116	15	73	9	133
5	20	79	12	135	20	70	12	168
6	25	79	15	160	25	69	15	204
7			18	186	30	68	18	237
8			21	209	35	68	21	264
9			24	231	40	68	24	300
10			27	255			27	322
11			30	276			30	349
12			33	297			33	373
13			36	316			36	396
14			39	338			39	414
15			42	358			42	433
16			45	379			45	453
17							48	469
18							51	478
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2606 DST #8

TKT # 1828

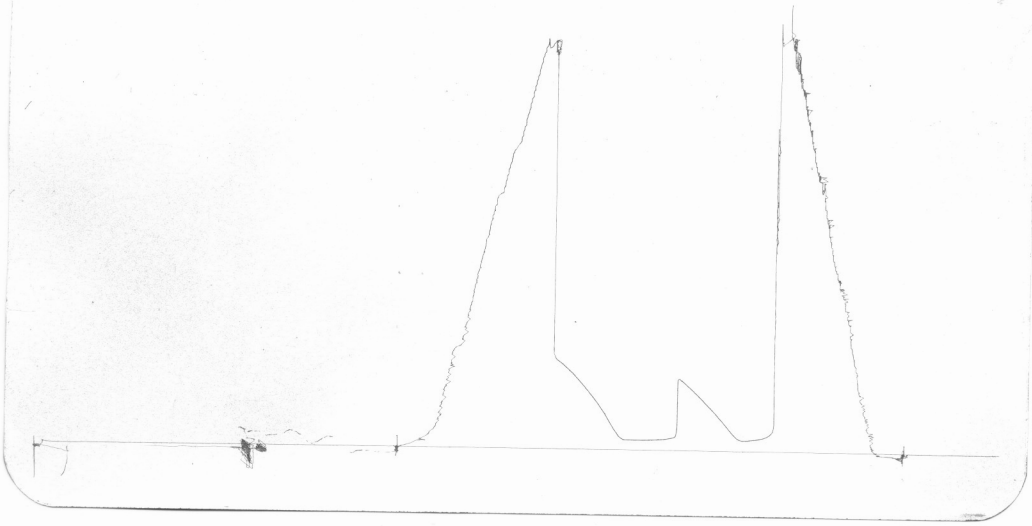
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13267 DST #8

TKT # 1828

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8/22/83 TICKET #1829
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 9 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: SIMPSON SAND
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4469 FT TO: 4508 FT TOTAL DEPTH: 4508 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4464 FT SIZE: 6 3/4 IN PACKER DEPTH: 4469 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GRAVES
MUD TYPE: CHEMICAL VISCOSITY: 67
WEIGHT: 9.1 WATER LOSS (CC): 12.6
CHLORIDES (P.P.M.): 15000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	124	FT	I.D.:	2 1/4	IN
WEIGHT PIPE LENGTH:		FT	I.D.:		IN
DRILL PIPE LENGTH:	4325	FT	I.D.:	3.8	IN
TEST TOOL LENGTH:	20	FT	TOOL SIZE:	5 1/2 OD	IN
ANCHOR LENGTH:	39	FT	SIZE:	5 1/2 OD	IN
SURFACE CHOKE SIZE:	3/4	IN	BOTTOM CHOKE SIZE:	3/4	IN
MAIN HOLE SIZE:	7 7/8	IN	TOOL JOINT SIZE:	4 1/2 FH	IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW
IN 15 MINUTES.
FINAL FLOW PERIOD STRONG BLOW.
WOULDN'T MAINTAIN 2 INCH FLOW LINE.

RECOVERED:	360 FT	OF:	GAS IN PIPE
RECOVERED:	75 FT	OF:	GAS CUT MUD
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS:

TIME SET PACKER(S): 2:45 AM TIME STARTED OFF BOTTOM: 6:00 AM
WELL TEMPERATURE: 125 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2236	PSI	
INITIAL FLOW PERIOD	MIN: 25	(B) 111	PSI TO (C) 78	PSI
INITIAL CLOSED IN PERIOD	MIN: 42	(D) 475	PSI	
FINAL FLOW PERIOD	MIN: 65	(E) 104	PSI TO (F) 82	PSI
FINAL CLOSED IN PERIOD	MIN: 57	(G) 468	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2194	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8/22/83 TICKET #1829
CUSTOMER: GRAVES DRILLING CO. INC. LEASE: BRYAN
WELL: 1 TEST: 9 GEOLOGIST: RATZLAFF
ELEVATION (KB): 1973 FORMATION: SIMPSON SAND
SECTION: 32 TOWNSHIP: 28S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2236	PSI
(B) FIRST INITIAL FLOW PRESSURE:	111	PSI
(C) FIRST FINAL FLOW PRESSURE:	78	PSI
(D) INITIAL CLOSED-IN PRESSURE:	475	PSI
(E) SECOND INITIAL FLOW PRESSURE:	104	PSI
(F) SECOND FINAL FLOW PRESSURE:	82	PSI
(G) FINAL CLOSED-IN PRESSURE:	468	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2194	PSI
WELL TEMPERATURE:	125	°F

OPEN TOOL: 2:45 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	25 MIN
INITIAL CLOSED-IN PRESSURE:	45 MIN	42 MIN
SECOND FLOW PRESSURE:	60 MIN	65 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	57 MIN

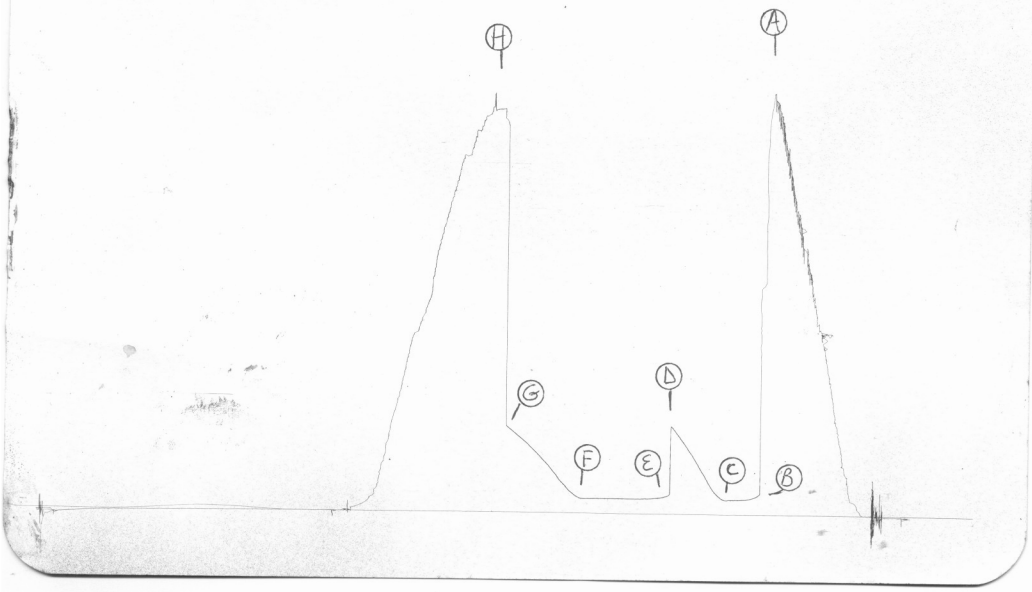
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	111	0	78	0	104	0	82
2	5	92	3	86	5	92	3	93
3	10	83	6	105	10	85	6	109
4	15	80	9	127	15	82	9	126
5	20	79	12	162	20	81	12	153
6	25	78	15	199	25	81	15	174
7			18	233	30	81	18	203
8			21	270	35	82	21	228
9			24	302	40	82	24	256
10			27	336	45	82	27	278
11			30	367	50	82	30	300
12			33	400	55	82	33	324
13			36	428	60	82	36	347
14			39	454	65	82	39	368
15			42	475			42	386
16							45	406
17							48	424
18							51	441
19							54	459
20							57	468
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2606 DST#9

IKT # 1829

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13267 DST#9

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