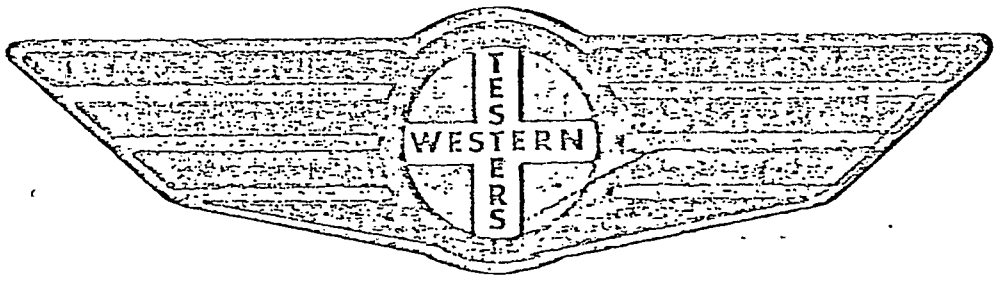
FORMATION TEST REPORT



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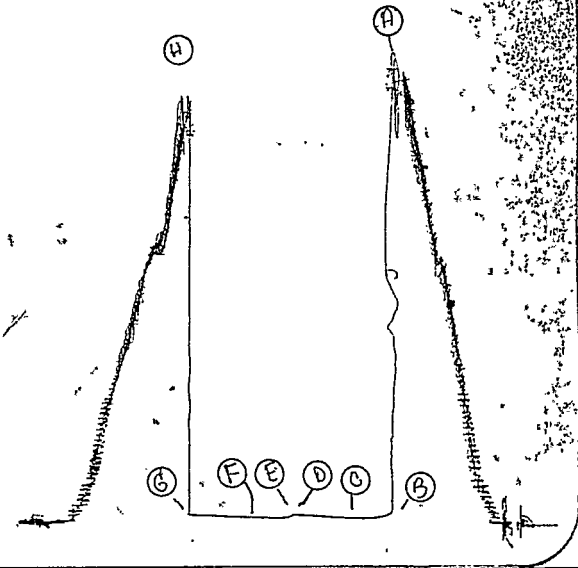
P.O. Box 1599 Phone (316) 262-5861

Company HUMMON CORPORATION Lease and Well No. #1 BERTHA Sec. 20 Twp. 31S Rge. 10W Test No. 5 Date 11/16/84

13221
DST #5

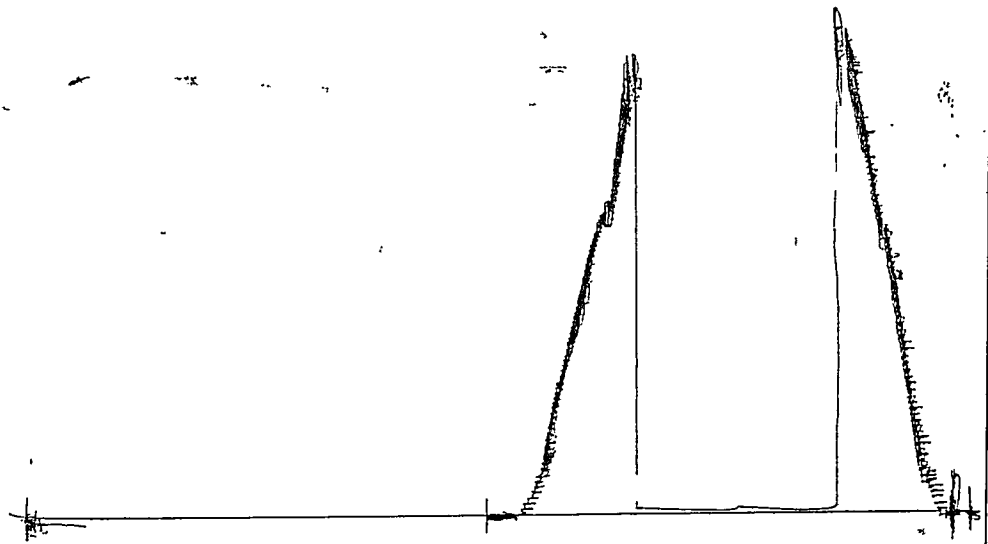
TKT # 7318

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TKT # 7318

#13551
DST #5



WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/16/84 TICKET #7318
CUSTOMER: HUMMON CORP. LEASE: BERTHA
WELL: 1 TEST: 5 GEOLOGIST: PIERCE
ELEVATION (KB): 1759 FORMATION: SIMPSON
SECTION: 20 TOWNSHIP: 31S
RANGE: 10W COUNTY: BARBER STATE: KS
GAUGE SN #13221 RANGE: 4450 CLOCK: 12

INTERVAL TEST FROM: 4826 FT TO: 4845 FT TOTAL DEPTH: 4845 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4821 FT SIZE: 6 5/8 IN PACKER DEPTH: 4826 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: BIG H DRLG
MUD TYPE: DRISPAC VISCOSITY: 56
WEIGHT: 8.8 WATER LOSS (CC): 10.2
CHLORIDES (P.P.M.): 9000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	437	FT	I.D.: 2.2	IN	
WEIGHT PIPE LENGTH:		FT	I.D.:	IN	
DRILL PIPE LENGTH:	4369	FT	I.D.: 3.8	IN	
TEST TOOL LENGTH:	20	FT	TOOL SIZE:	5 1/2 OD	IN
ANCHOR LENGTH:	19	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 XH	IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW; NO BUILD; DIED IN
6 MINUTES
FINAL FLOW PERIOD WEAK BLOW W/NO BUILD; DIED IN
4 MINUTES

RECOVERED:	10	FT	OF: UNCUT DRLG 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): 6:30 PM TIME STARTED OFF BOTTOM: 9:00 PM
WELL TEMPERATURE: 124 °F

INITIAL HYDROSTATIC PRESSURE:		(A) 2451	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 43	PSI TO (C) 43	PSI
INITIAL CLOSED IN PERIOD	MIN: 45	(D) 64	PSI	
FINAL FLOW PERIOD	MIN: 30	(E) 44	PSI TO (F) 50	PSI
FINAL CLOSED IN PERIOD	MIN: 45	(G) 64	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2347	PSI	

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 11/16/84 TICKET #7318
CUSTOMER: HUMMON CORP. LEASE: BERTHA
WELL: 1 TEST: 5 GEOLOGIST: PIERCE
ELEVATION (KB): 1759 FORMATION: SIMPSON
SECTION: 20 TOWNSHIP: 31S
RANGE: 10W COUNTY: BARBER STATE: KS
GAUGE SN #13221 RANGE: 4450 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2451	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	43	PSI
(C)	FIRST FINAL FLOW PRESSURE:	43	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	64	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	44	PSI
(F)	SECOND FINAL FLOW PRESSURE:	50	PSI
(G)	FINAL CLOSED-IN PRESSURE:	64	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2347	PSI
WELL TEMPERATURE:		124	°F

OPEN, TOOL: 6:30 PM

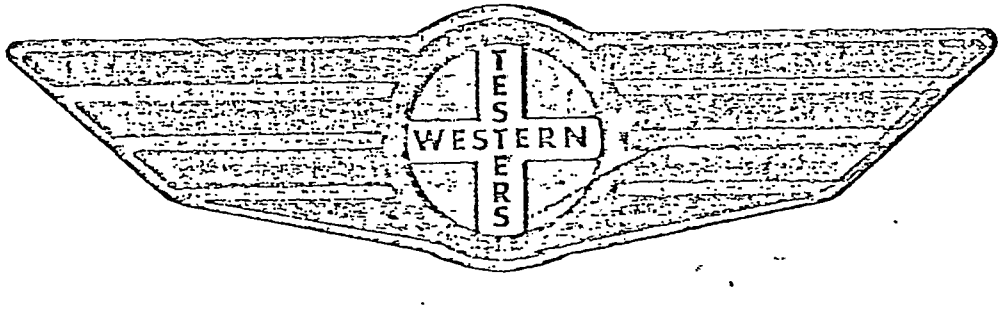
	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	45 MIN	45 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	45 MIN	45 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	43	0	43	0	44	0	50
2	5	43	3	44	5	44	3	50
3	10	43	6	45	10	44	6	51
4	15	43	9	47	15	45	9	51
5	20	43	12	49	20	46	12	52
6	25	43	15	51	25	48	15	53
7	30	43	18	53	30	50	18	54
8			21	55			21	55
9			24	57			24	56
10			27	58			27	58
11			30	59			30	60
12			33	60			33	61
13			36	61			36	62
14			39	62			39	63
15			42	63			42	64
16			45	64			45	64
17								
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30								

Company HUMMON CORPORATION Lease and Well No. #1 BERTHA Sec. 20 Twp. 31S Rge. 10W Test No. 6 Date 11/17/84

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

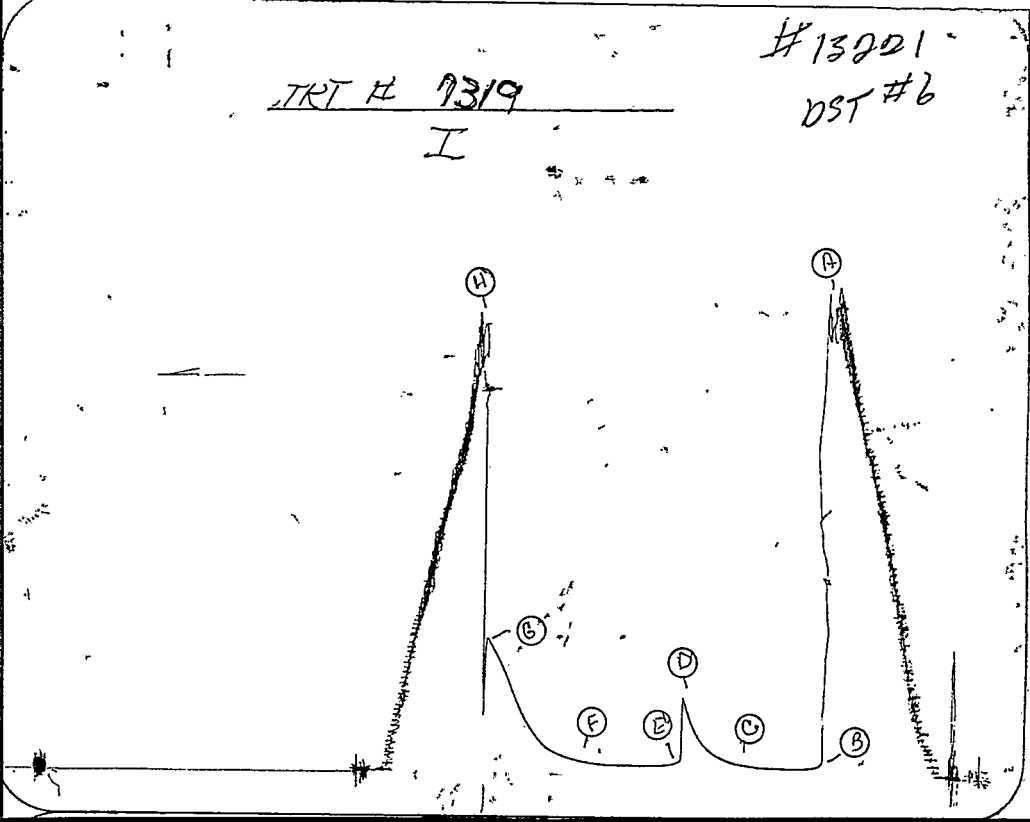
P.O. Box 1599 Phone (316) 262-5861

#13201

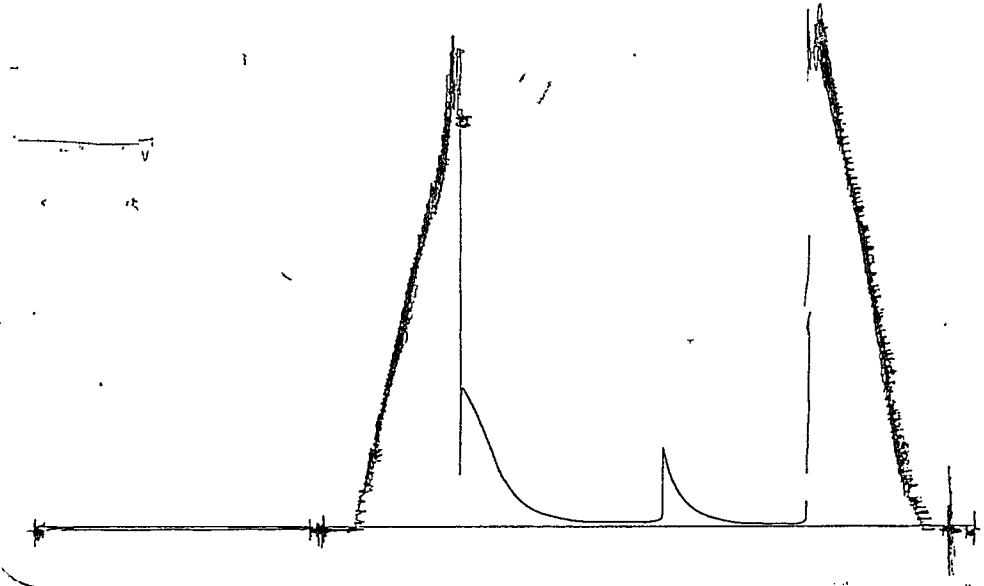
DST #6

IRT # 9319

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RT# 7319



WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/17/84 TICKET #7319
CUSTOMER: HUMMON CORP. LEASE: BERTHA
WELL: 1 TEST: 6 GEOLOGIST: PIERCE
ELEVATION (KB): 1759 FORMATION: SIMPSON
SECTION: 20 TOWNSHIP: 31S
RANGE: 10W COUNTY: BARBER STATE: KS
GAUGE SN #13221 RANGE: 4450 CLOCK: 12

INTERVAL TEST FROM: 4842 FT TO: 4857 FT TOTAL DEPTH: 4857 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4837 FT SIZE: 6 5/8 IN PACKER DEPTH: 4842 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: BIG H. DRLG
MUD TYPE: DRISPAC VISCOSITY: 135
WEIGHT: 8.7 WATER LOSS (CC): 10.2
CHLORIDES (P.P.M.): 10000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 437 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4385 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 15 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 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW W/WEAK BUILD
FINAL FLOW PERIOD WEAK BLOW W/WEAK BUILD -NO G.T.S.

RECOVERED: 60 FT OF: SL O & G C M (10% G; 5% O; 85% M)
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): 9:48 AM TIME STARTED OFF BOTTOM: 2:03 PM
WELL TEMPERATURE: 126 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2555 PSI
INITIAL FLOW PERIOD MIN: 45 (B) 49 PSI TO (C) 54 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 434 PSI
FINAL FLOW PERIOD MIN: 60 (E) 57 PSI TO (F) 64 PSI
FINAL CLOSED IN PERIOD MIN: 87 (G) 757 PSI
FINAL HYDROSTATIC PRESSURE (H) 2489 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 11/17/84 TICKET #7319
CUSTOMER: HUMMON CORP. LEASE: BERTHA
WELL: 1 TEST: 6 GEOLOGIST: PIERCE
ELEVATION (KB): 1759 FORMATION: SIMPSON
SECTION: 20 TOWNSHIP: 31S
RANGE: 10W COUNTY: BARBER STATE: KS
GAUGE SN #13221 RANGE: 4450 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2555	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	49	PSI
(C)	FIRST FINAL FLOW PRESSURE:	54	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	434	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	57	PSI
(F)	SECOND FINAL FLOW PRESSURE:	64	PSI
(G)	FINAL CLOSED-IN PRESSURE:	757	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2489	PSI
WELL TEMPERATURE:		126	'F
OPEN TOOL:	9:48 AM		

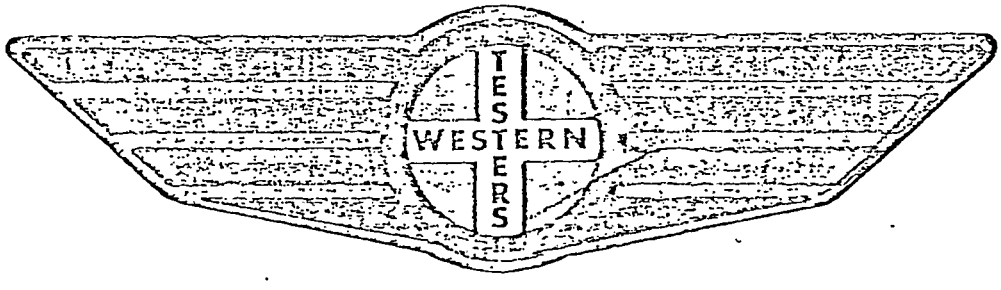
	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	45	MIN	45	MIN
INITIAL CLOSED-IN PRESSURE:	60	MIN	60	MIN
SECOND FLOW PRESSURE:	60	MIN	60	MIN
FINAL CLOSED-IN PRESSURE:	90	MIN	87	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	49	0	54	0	57	0	64
2	5	49	3	56	5	57	3	64
3	10	49	6	60	10	57	6	64
4	15	49	9	64	15	57	9	64
5	20	49	12	68	20	57	12	64
6	25	49	15	72	25	57	15	82
7	30	50	18	76	30	57	18	87
8	35	51	21	80	35	58	21	93
9	40	52	24	86	40	59	24	99
10	45	54	27	95	45	60	27	107
11			30	104	50	61	30	116
12			33	113	55	62	33	125
13			36	127	60	64	36	135
14			39	148			39	149
15			42	166			42	167
16			45	193			45	188
17			48	228			48	217
18			51	269			51	246
19			54	323			54	283
20			57	387			57	321
21			60	434			60	364
22							63	410
23							66	462
24							69	515
25							72	567
26							75	615
27							78	658
28							81	699
29							84	735
30							87	757

Company HUMMON CORPORATION Lease and Well No. #1 BERTHA Sec. 20 Twp. 31S Rge. 10W Test No. 7 Date 11/17/84

FORMATION TEST REPORT



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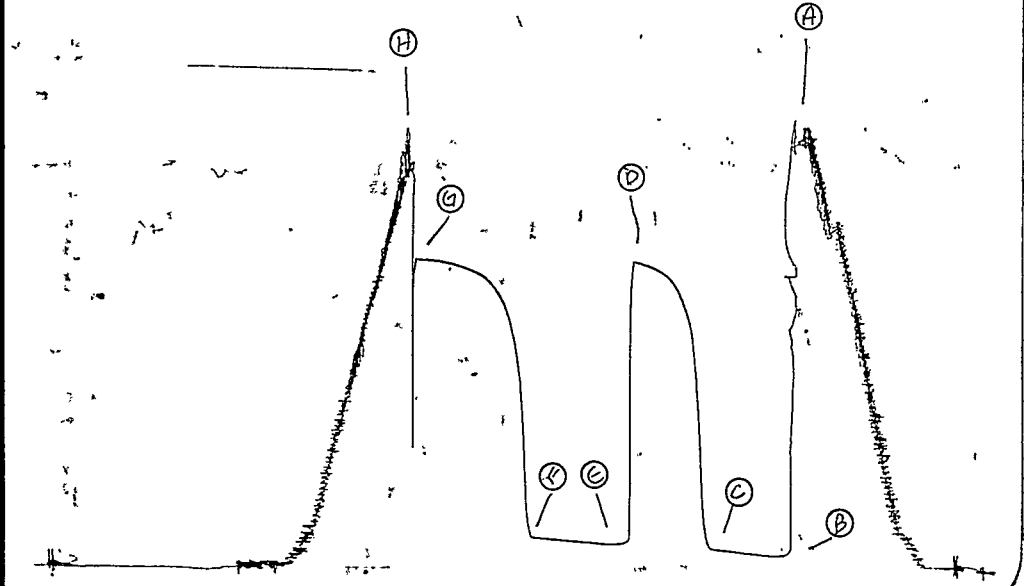
P.O. Box 1599 Phone (316) 262-5861

KCC #7320

#13221

DST #7

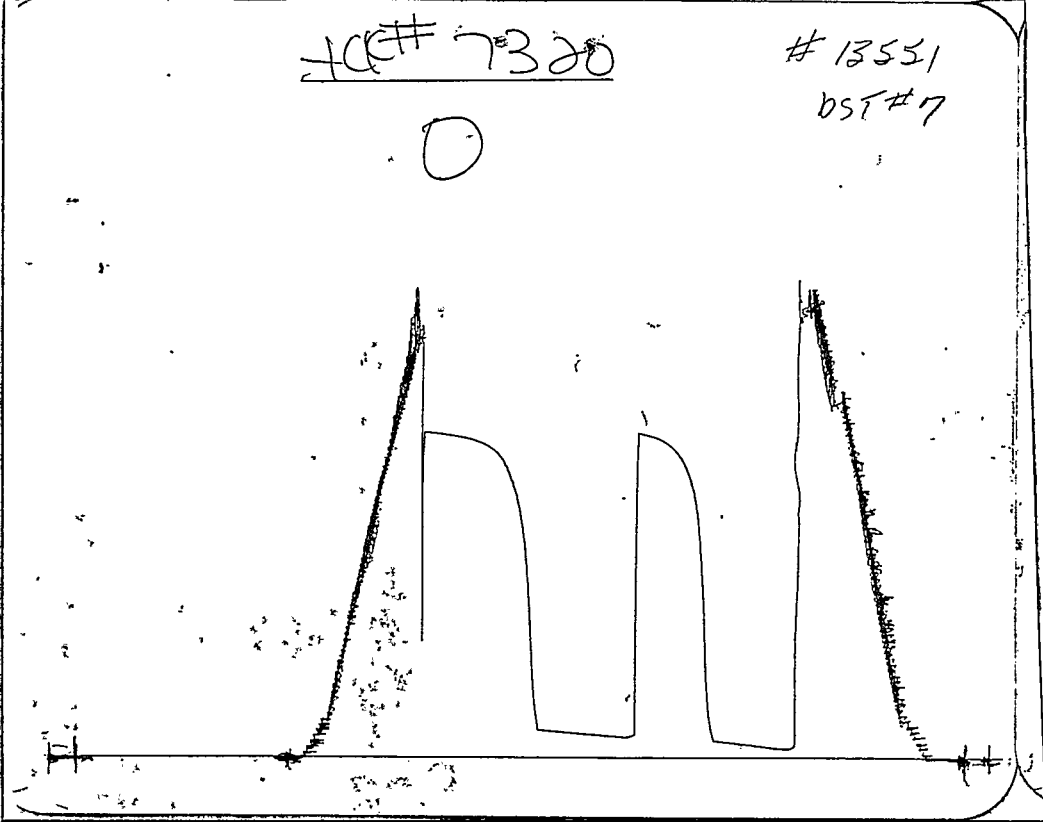
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ICT# 7320

13551

DST #7



WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/17/84 TICKET #7320
CUSTOMER: HUMMON CORPORATION LEASE: BERTHA
WELL: #1 TEST: 7 GEOLOGIST: PIERCE
ELEVATION (KB): 1759 FORMATION: SIMPSON
SECTION: 20 TOWNSHIP: 31S
RANGE: 10W COUNTY: BARBER STATE: KANSAS
GAUGE SN #13221 RANGE: 4450 CLOCK: 12

INTERVAL TEST FROM: 4841 FT TO: 4862 FT TOTAL DEPTH: 4862 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4836 FT SIZE: 6 5/8 IN PACKER DEPTH: 4841 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: BIG H DRLG
MUD TYPE: DRISPAC VISCOSITY: 59
WEIGHT: 8.9 WATER LOSS (CC): 10.2
CHLORIDES (P.P.M.): 10000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 437 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4387 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 21 FT SIZE: 5 1/2 O.D. 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 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING TO FAIR. FINAL FLOW PERIOD VERY WEAK BLOW WITH WEAK BUILD.

RECOVERED: 60 FT OF: WATERY DRLG MUD.
RECOVERED: 240 FT OF: SALT WATER. CHLORIDES 58000 P.P.M.
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): 2:28 A.M. TIME STARTED OFF BOTTOM: 7:15 A.M.
WELL TEMPERATURE: 136 °F

INITIAL HYDROSTATIC PRESSURE:		(A) 2419	PSI	
INITIAL FLOW PERIOD	MIN: 60	(B) 72	PSI TO (C) 113	PSI
INITIAL CLOSED IN PERIOD	MIN: 60	(D) 1735	PSI	
FINAL FLOW PERIOD	MIN: 70	(E) 137	PSI TO (F) 175	PSI
FINAL CLOSED IN PERIOD	MIN: 90	(G) 1747	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2359	PSI	

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 11/17/84 TICKET #7320
CUSTOMER: HUMMON CORPORATION LEASE: BERTHA
WELL: #1 TEST: 7 GEOLOGIST: PIERCE
ELEVATION (KB): 1759 FORMATION: SIMPSON
SECTION: 20 TOWNSHIP: 31S
RANGE: 10W COUNTY: BARBER STATE: KANSAS
GAUGE SN #13221 RANGE: 4450 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2419	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	72	PSI
(C)	FIRST FINAL FLOW PRESSURE:	113	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1735	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	137	PSI
(F)	SECOND FINAL FLOW PRESSURE:	175	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1747	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2359	PSI
WELL TEMPERATURE:		136	°F

OPEN TOOL: 2:28 A.M.

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	60	MIN	60	MIN
INITIAL CLOSED-IN PRESSURE:	60	MIN	60	MIN
SECOND FLOW PRESSURE:	60	MIN	70	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	72	0	113	0	137	0	170
2	5	72	3	165	5	138	3	239
3	10	72	6	247	10	139	6	498
4	15	72	9	680	15	140	9	947
5	20	77	12	1087	20	142	12	1182
6	25	83	15	1330	25	144	15	1300
7	30	89	18	1429	30	146	18	1397
8	35	93	21	1502	35	149	21	1471
9	40	97	24	1551	40	153	24	1512
10	45	103	27	1593	45	158	27	1557
11	50	106	30	1629	50	162	30	1594
12	55	109	33	1655	55	166	33	1618
13	60	113	36	1676	60	170	36	1642
14			39	1686	65	173	39	1658
15			42	1695	70	175	42	1668
16			45	1704			45	1676
17			48	1711			48	1678
18			51	1717			51	1695
19			54	1723			54	1703
20			57	1729			57	1711
21			60	1735			60	1719
22							63	1723
23							66	1727
24							69	1731
25							72	1736
26							75	1739
27							78	1741
28							81	1743
29							84	1745
30							87	1746

PRESSURE BREAKDOWN - CONT. - TICKET #7320

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	1747
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
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