

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/8/83
CUSTOMER: W. L. HARTMAN ESTATE
WELL: 7 TEST: 1
ELEVATION (KB): 0 FORMATION: TOPEKA
SECTION: 25 TOWNSHIP: 19S
RANGE: 12W COUNTY: BARTON STATE: KANSAS
GAUGE SN #13555 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 2856 FT TO: 2910 FT TOTAL DEPTH: 2910 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2851 FT SIZE: 6 5/8 IN PACKER DEPTH: 2856 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANNITTI #1
MUD TYPE: STARCH VISCOSITY: 40
WEIGHT: 9.7 WATER LOSS (CC): 3.6
CHLORIDES (P.P.M.): 66000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 600 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2225 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 32W.P.+54 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 F.H. IN

BLOW:

STRONG BLOW - GAS TO SURFACE IN 27 MINUTES.

RECOVERED: 310 FT OF: GAS & OIL CUT WATERY MUD
RECOVERED: 90 FT OF: WATER
RECOVERED: FT OF: CHLORIDES 120000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF: TOP:36% GAS; 20% OIL; 8% WATER; 36% MUD
RECOVERED: FT OF: BOTTOM:39% GAS; 18% OIL; 31% WATER; 12% MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 1:45 A.M.

TIME STARTED OFF BOTTOM: 3:45 A.M.

WELL TEMPERATURE: 101 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 1504 PSI

INITIAL FLOW PERIOD MIN: 90

(B) 50 PSI TO (C) 178 PSI

INITIAL CLOSED IN PERIOD MIN: 33

(D) 785 PSI

FINAL FLOW PERIOD MIN: 0

(E) 0 PSI TO (F) 0 PSI

FINAL CLOSED IN PERIOD MIN: 0

(G) 0 PSI

FINAL HYDROSTATIC PRESSURE

(H) 1504 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

TICKET #18560

LEASE: BRODIE

GEOLOGIST: MOORE

FORMATION: TOPEKA

TOWNSHIP: 19S

COUNTY: BARTON

STATE: KANSAS

RANGE: 4025

CLOCK: 12

(B) FIRST INITIAL FLOW PRESSURE: 50 PSI

(C) FIRST FINAL FLOW PRESSURE: 178 PSI

(D) INITIAL CLOSED-IN PRESSURE: 785 PSI

(E) SECOND INITIAL FLOW PRESSURE: 0 PSI

(F) SECOND FINAL FLOW PRESSURE: 0 PSI

(G) FINAL CLOSED-IN PRESSURE: 0 PSI

(H) FINAL HYDROSTATIC PRESSURE: 1504 PSI

WELL TEMPERATURE: 101 °F

OPEN TOOL: 1:45 A.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	90 MIN	90 MIN

INITIAL CLOSED-IN PRESSURE: 30 MIN 33 MIN

SECOND FLOW PRESSURE: MIN 0 MIN

FINAL CLOSED-IN PRESSURE: MIN 0 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	50	0	178	0	0	0	0
2	5	50	3	431				
3	10	55	6	597				
4	15	66	9	688				
5	20	76	12	722				
6	25	83	15	742				
7	30	92	18	756				
8	35	101	21	766				
9	40	110	24	773				
10	45	117	27	778				
11	50	125	30	783				
12	55	133	33	785				
13	60	141						
14	65	149						
15	70	157						
16	75	165						
17	80	171						
18	85	178						
19	90	178						

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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/8/83
CUSTOMER: W. L. HARTMAN ESTATE
WELL: 7
ELEVATION (KB): 0
SECTION: 25
RANGE: 12W
GAUGE SN #13555

TEST: 1
FORMATION: TOPEKA
TOWNSHIP: 19S
COUNTY: BARTON
RANGE: 4025

TICKET #18560
LEASE: BRODIE
GEOLOGIST: MOORE
STATE: KANSAS
CLOCK: 12

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

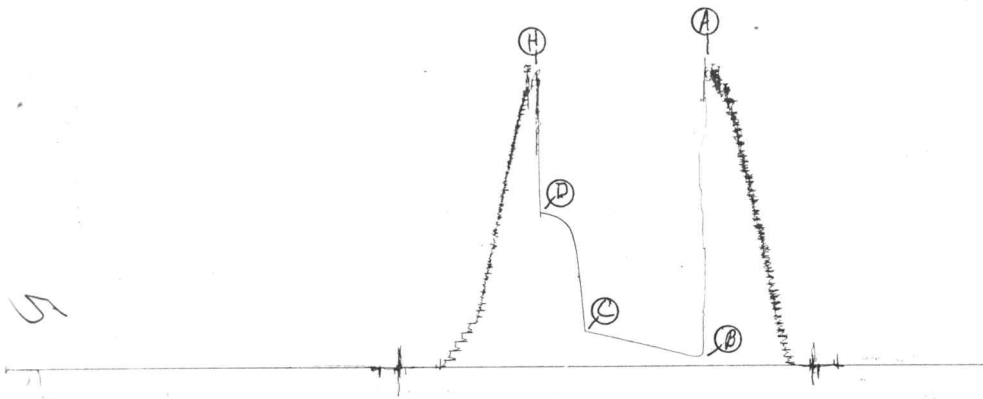
27				GAS TO SURFACE
10	MERLA	1/4	6" WTR	4120 CFPD
20		1/4	5" WTR	3710 CFPD
30		1/4	4" WTR	3370 CFPD
40		1/4	4" WTR	3370 CFPD
50		1/4	3" WTR	2920 CFPD
63		1/4	3" WTR	2920 CFPD

SECOND FLOW

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 11/8/83

TKT # 18560

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/8/83
CUSTOMER: W. L. HARTMAN ESTATE
WELL: 7 TEST: 2
ELEVATION (KB): 0 FORMATION: KANSAS CITY
SECTION: 25 TOWNSHIP: 19S
RANGE: 12W COUNTY: BARTON STATE: KANSAS
GAUGE SN #13555 RANGE: 4025 CLOCK: 12

TICKET #18561
LEASE: BRODIE
GEOLOGIST: MOORE

INTERVAL TEST FROM: 3081 FT TO: 3114 FT TOTAL DEPTH: 3114 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3076 FT SIZE: 6 5/8 IN PACKER DEPTH: 3081 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMA-IAHNITTI #1
MUD TYPE: STARCH VISCOSITY: 43
WEIGHT: 9.7 WATER LOSS (CC): 7.6
CHLORIDES (P.P.M.): 72000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 632 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2428 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 33 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 F.H. IN

BLOW: VERY WEAK THROUGHOUT FLOW PERIODS.

RECOVERED: 60 FT OF: GAS ABOVE FLUID
RECOVERED: 10 FT OF: SLIGHT OIL 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): 10:00 P.M.

TIME STARTED OFF BOTTOM: 11:30 P.M.

WELL TEMPERATURE: 104 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 60

FINAL FLOW PERIOD MIN: 35

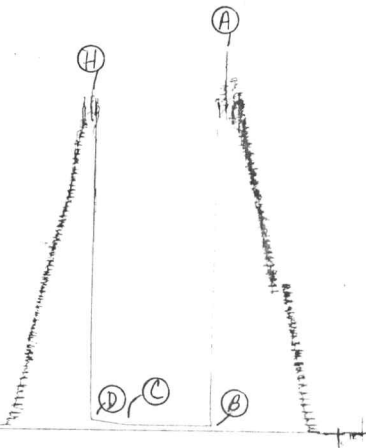
FINAL CLOSED IN PERIOD MIN: 0

FINAL HYDROSTATIC PRESSURE

(A) 1636 PSI
(B) 27 PSI TO (C) 28 PSI
(D) 28 PSI
(E) 31 PSI TO (F) 53 PSI
(G) 0 PSI
(H) 1610 PSI

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/9/83
CUSTOMER: W. L. HARTMAN ESTATE
WELL: 7
ELEVATION (KB): 0
SECTION: 25
RANGE: 12W
GAUGE SN #13555

TEST: 3
FORMATION: KANSAS CITY
TOWNSHIP: 19S
COUNTY: BARTON
RANGE: 4025

TICKET #18562
LEASE: BRODIE
GEOLOGIST: MOORE
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3119 FT TO: 3157 FT TOTAL DEPTH: 3157 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3114 FT SIZE: 6 5/8 IN PACKER DEPTH: 3119 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANNITTI #1
MUD TYPE: STARCH VISCOSITY: 43
WEIGHT: 9.7 WATER LOSS (CC): 7.6
CHLORIDES (P.P.M.): 72000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 632 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2466 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 38 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 F.H. IN

BLOW: STRONG - GAS TO SURFACE IN 28 MINUTES.
TOO SMALL AMOUNT TO GAUGE.

RECOVERED: 90 FT OF: GASSY MUD
RECOVERED: 210 FT OF: MUDDY OIL
RECOVERED: 180 FT OF: CLEAN OIL GRAVITY 42 @ 60 DEGREES
RECOVERED: 360 FT OF: WATER
RECOVERED: FT OF: CHLORIDES 121000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 12:45 P.M. TIME STARTED OFF BOTTOM: 3:58 P.M.
WELL TEMPERATURE: 105 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1662 PSI
INITIAL FLOW PERIOD MIN: 85 (B) 85 PSI TO (C) 320 PSI
INITIAL CLOSED IN PERIOD MIN: 39 (D) 616 PSI
FINAL FLOW PERIOD MIN: 30 (E) 359 PSI TO (F) 382 PSI
FINAL CLOSED IN PERIOD MIN: 27 (G) 601 PSI
FINAL HYDROSTATIC PRESSURE (H) 1648 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11/9/83		TICKET #18562
CUSTOMER: W. L. HARTMAN ESTATE		LEASE: BRODIE
WELL: 7	TEST: 3	GEOLOGIST: MOORE
ELEVATION (KB): 0	FORMATION: KANSAS CITY	
SECTION: 25	TOWNSHIP: 19S	
RANGE: 12W	COUNTY: BARTON	STATE: KANSAS
GAUGE SN #13555	RANGE: 4025	CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1662	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	85	PSI
(C)	FIRST FINAL FLOW PRESSURE:	320	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	616	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	359	PSI
(F)	SECOND FINAL FLOW PRESSURE:	382	PSI
(G)	FINAL CLOSED-IN PRESSURE:	601	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1648	PSI
WELL TEMPERATURE:		105	'F
OPEN TOOL: 12:45 P.M.			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	90 MIN	85 MIN
INITIAL CLOSED-IN PRESSURE:	43 MIN	39 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	30 MIN	27 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	85	0	320	0	359	0	382
2	5	85	3	451	5	359	3	486
3	10	103	6	494	10	362	6	524
4	15	123	9	522	15	366	9	548
5	20	139	12	541	20	371	12	563
6	25	156	15	559	25	377	15	575
7	30	177	18	571	30	382	18	584
8	35	194	21	582			21	591
9	40	212	24	592			24	597
10	45	227	27	600			27	601
11	50	243	30	606				
12	55	258	33	610				
13	60	273	36	615				
14	65	284	39	616				
15	70	292						
16	75	300						
17	80	309						
18	85	320						

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/10/83
CUSTOMER: W.L.HARTMAN ESTATE
WELL: 7 TEST: 4
ELEVATION (KB): 0 FORMATION: K.C.
SECTION: 25 TOWNSHIP: 19S
RANGE: 12W COUNTY: BARTON STATE: KANSAS
GAUGE SN #13555 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3198 FT TO: 3250 FT TOTAL DEPTH: 3250 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3193 FT SIZE: 6 5/8 IN PACKER DEPTH: 3198 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANNITTI #1
MUD TYPE: STARCH VISCOSITY: 45
WEIGHT: 9.8 WATER LOSS (CC): 5.6
CHLORIDES (P.P.M.): 70000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 600 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2577 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 52 FT SIZE: 5.5+32'WP 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: WEAK-INCREASED TO GOOD 5" BLOW.

RECOVERED: 220 FT OF: GAS ABOVE FLUID.
RECOVERED: 80 FT OF: GAS CUT & VERY SLIGHT OIL 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): 8:10 A.M. TIME STARTED OFF BOTTOM: 10:10 A.M.
WELL TEMPERATURE: 105 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1680 PSI
INITIAL FLOW PERIOD MIN: 90 (B) 23 PSI TO (C) 45 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 152 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 1656 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

TICKET #18563

LEASE: BRODIE

TEST: 4

GEOLOGIST: L.K. MOORE

FORMATION: K.C.

TOWNSHIP: 19S

COUNTY: BARTON

STATE: KANSAS

RANGE: 4025

CLOCK: 12

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TIME - GIVEN TIME - ACTUAL

90 MIN 90 MIN

30 MIN 27 MIN

MIN 0 MIN

MIN 0 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	23	0	45	0	0	0	0
2	5	23	3	60				
3	10	24	6	74				
4	15	26	9	87				
5	20	27	12	97				
6	25	28	15	109				
7	30	29	18	121				
8	35	30	21	131				
9	40	32	24	143				
10	45	34	27	152				
11	50	36						
12	55	37						
13	60	38						
14	65	39						
15	70	40						
16	75	41						
17	80	42						
18	85	43						
19	90	45						

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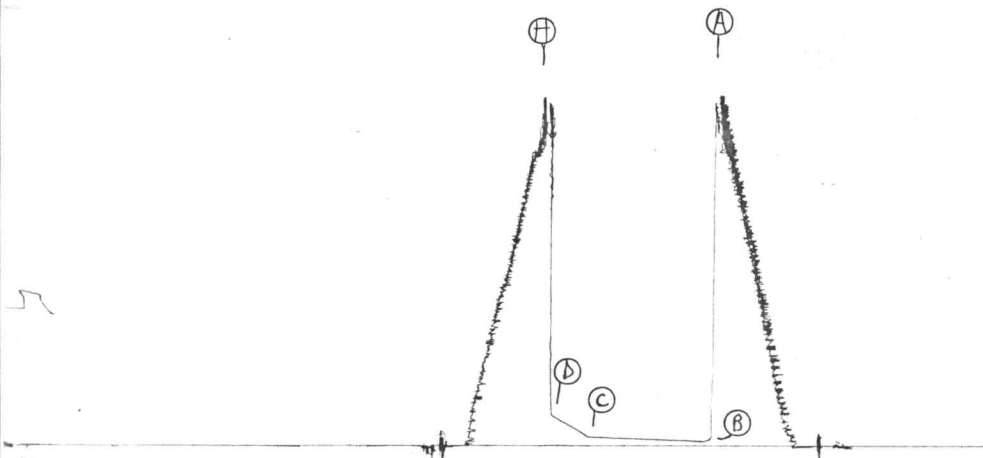
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TKT # 18563

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/11/83
CUSTOMER: W.L.HARTMAN ESTATE
WELL: 7 TEST: 5
ELEVATION (KB): 0 FORMATION: KANSAS CITY
SECTION: 25 TOWNSHIP: 19S
RANGE: 12W COUNTY: BARTON STATE: KANSAS
GAUGE SN #13555 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3269 FT TO: 3319 FT TOTAL DEPTH: 3319 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3264 FT SIZE: 6 5/8 IN PACKER DEPTH: 3269 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANITTI #1
MUD TYPE: STARCH VISCOSITY: 44
WEIGHT: 9.7 WATER LOSS (CC): 5.4
CHLORIDES (P.P.M.): 70000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 600 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2648 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 50 FT SIZE: 5.5+32'WP 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: VERY WEAK DIED IN 25 MINUTES.

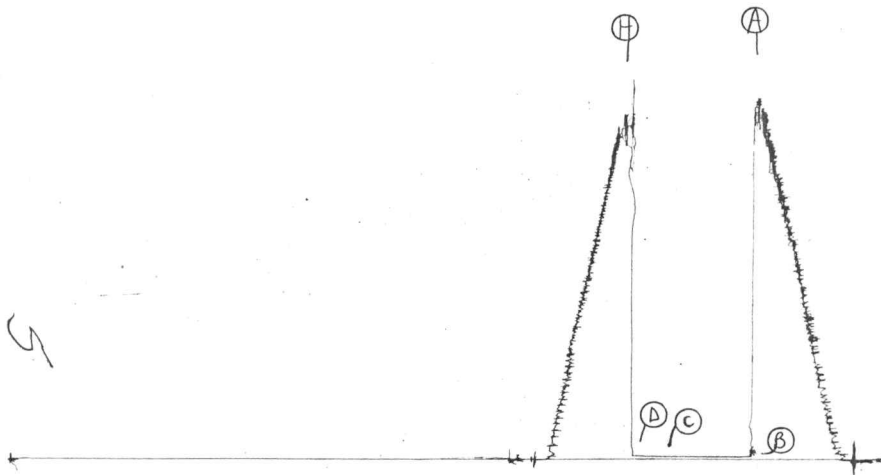
RECOVERED: 5	FT	OF: MUD WITH FEW OIL SPECKS
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
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RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 12:00 A.M.	TIME STARTED OFF BOTTOM: 1:30 A.M.
WELL TEMPERATURE: 103 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1710 PSI
INITIAL FLOW PERIOD MIN: 60	(B) 13 PSI TO (C) 15 PSI
INITIAL CLOSED IN PERIOD MIN: 27	(D) 19 PSI
FINAL FLOW PERIOD MIN: 0	(E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0	(G) 0 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1710 PSI

TKT # 18564

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/11/83
CUSTOMER: W.L.HARTMAN ESTATE
WELL: 7 TEST: 6
ELEVATION (KB): 0 FORMATION: ARB
SECTION: 25 TOWNSHIP: 19S
RANGE: 12W COUNTY: BARTON STATE: KANSAS
GAUGE SN #13555 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3315 FT TO: 3350 FT TOTAL DEPTH: 3350 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3310 FT SIZE: 6 5/8 IN PACKER DEPTH: 3315 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-INANITTI #1
MUD TYPE: STARCH VISCOSITY: 44
WEIGHT: 9.7 WATER LOSS (CC): 5.4
CHLORIDES (P.P.M.): 70000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 632 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2692 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 35 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 FH IN

BLOW: VERY WEAK DIED IN 10 MINUTES.

RECOVERED: 20 FT OF: MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
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REMARKS:

TIME SET PACKER(S): 12:00 P.M. TIME STARTED OFF BOTTOM: 1:30 P.M.
WELL TEMPERATURE: 106 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1742 PSI
INITIAL FLOW PERIOD MIN: 60 (B) 29 PSI TO (C) 29 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 46 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 1742 PSI

TKT # 18565

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/12/83
CUSTOMER: W.L.HARTMAN ESTATE
WELL: 7
ELEVATION (KB): 0
SECTION: 25
RANGE: 12W
GAUGE SN #13555

TEST: 7
FORMATION: ARB
TOWNSHIP: 19S
COUNTY: BARTON
RANGE: 4025

TICKET #18566
LEASE: BRODIE
GEOLOGIST: L.K.MOORE
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3350 FT TO: 3370 FT TOTAL DEPTH: 3370 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3345 FT SIZE: 6 5/8 IN PACKER DEPTH: 3350 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANITTI #1
MUD TYPE: STARCH VISCOSITY: 70
WEIGHT: 9.7 WATER LOSS (CC): 5.2
CHLORIDES (P.P.M.): 70000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 632 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2697 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 20 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 FH IN

BLOW: FAIR 3" BLOW THROUGHOUT FLOW PERIODS

RECOVERED: 300	FT	OF: VERY SLIGHT OIL CUT MUD
RECOVERED: 300	FT	OF: OIL CUT MUD
RECOVERED: 180	FT	OF: MUDDY OIL.
RECOVERED: 120	FT	OF: MUDDY OIL WITH TRACE OF WATER.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: PICKED UP MUD WHEN OPENING TOOL.

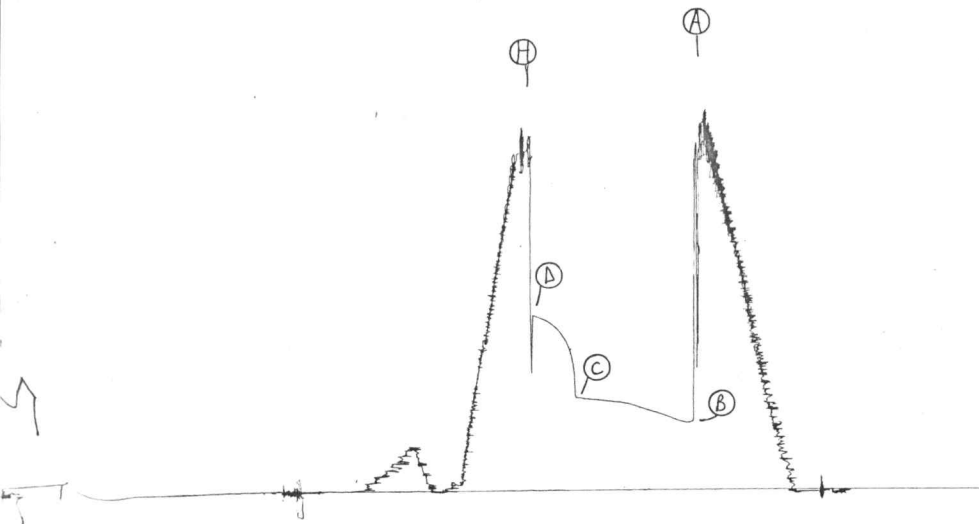
TIME SET PACKER(S): 1:00 P.M.
WELL TEMPERATURE: 108 °F

TIME STARTED OFF BOTTOM: 3:00 P.M.

INITIAL HYDROSTATIC PRESSURE:		(A) 1736	PSI	
INITIAL FLOW PERIOD	MIN: 85	(B) 344	PSI TO (C) 472	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 891	PSI	
FINAL FLOW PERIOD	MIN: 0	(E) 0	PSI TO (F) 0	PSI
FINAL CLOSED IN PERIOD	MIN: 0	(G) 0	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1736	PSI	

TKT. # 18566

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/12/83
CUSTOMER: W.L. HARTMAN ESTATE
WELL: 7 TEST: 8
ELEVATION (KB): 0 FORMATION: ARB.
SECTION: 25 TOWNSHIP: 19S
RANGE: 12W COUNTY: BARTON STATE: KANSAS
GAUGE SN #13555 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3372 FT TO: 3390 FT TOTAL DEPTH: 3390 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3367 FT SIZE: 6 5/8 IN PACKER DEPTH: 3372 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN_IANNITTI #1
MUD TYPE: STARCH VISCOSITY: 68
WEIGHT: 9.5 WATER LOSS (CC): 4.4
CHLORIDES (P.P.M.): 70000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 632 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2719 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 18 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 FH IN

BLOW: INITIAL & FINAL FLOW PERIODS STRONG.

RECOVERED: 420 FT OF: MUDDY OIL
RECOVERED: 180 FT OF: OIL CUT WATER.
RECOVERED: FT OF: TOP: 17% GAS; 33% OIL; 48% WTR; 2% MUD
RECOVERED: FT OF: BOTTOM: 6% GAS; 4% OIL; 88% WTR; 2% MUD
RECOVERED: FT OF: CHLORIDES 30000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 4:50 P.M.

TIME STARTED OFF BOTTOM: 6:50 P.M.

WELL TEMPERATURE: 112 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 1808 PSI

INITIAL FLOW PERIOD

MIN: 90

(B) 49

PSI TO (C) 263 PSI

INITIAL CLOSED IN PERIOD

MIN: 30

(D) 867

PSI

FINAL FLOW PERIOD

MIN: 0

(E) 0

PSI TO (F) 0 PSI

FINAL CLOSED IN PERIOD

MIN: 0

(G) 0

PSI

FINAL HYDROSTATIC PRESSURE

(H) 1748

PSI

TKT # 18567

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