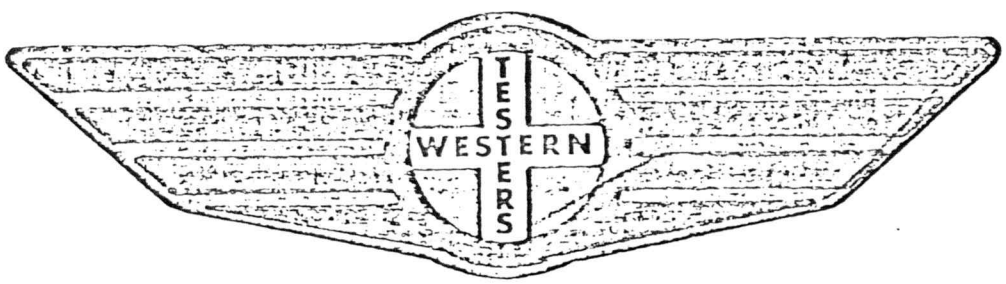
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

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

Company RANGE OIL COMPANY, INC. Lease and Well No. #1 "D" STEWARD Sec. 1 Twp. 32S Rge. 8E Test No. 1 Date 12/19/83

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12/19/83 TICKET #3272
CUSTOMER: RANGE OIL COMPANY INC. LEASE: "D" STEWARD
WELL: 1 TEST: 1 GEOLOGIST: LAUER
ELEVATION (KB): 1090 FORMATION: LAYTON
SECTION: 1 TOWNSHIP: 32S
RANGE: 8E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 1452 FT TO: 1476 FT TOTAL DEPTH: 1476 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1452 FT SIZE: 6 3/4 IN PACKER DEPTH: 1447 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 8.9 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2282 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 24 FT SIZE: 5 1/2 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 IN

BLOW: INITIAL FLOW PERIOD 6 INCH BLOW
DECREASING 2 INCHES.
FINAL FLOW PERIOD WEAK BLOW THROUGHOUT.

RECOVERED: 330 FT OF: GAS ABOVE FLUID
RECOVERED: 30 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): 3:45 TIME STARTED OFF BOTTOM: 7:30
WELL TEMPERATURE: 86 'F
INITIAL HYDROSTATIC PRESSURE: (A) 754 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 76 PSI TO (C) 58 PSI
INITIAL CLOSED IN PERIOD MIN: 75 (D) 393 PSI
FINAL FLOW PERIOD MIN: 60 (E) 90 PSI TO (F) 68 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 377 PSI
FINAL HYDROSTATIC PRESSURE (H) 690 PSI

WESTERN TESTING CO. INC.

PRESSURE DATA

DATE: 12/19/83 TICKET #3272

CUSTOMER: RANGE OIL COMPANY INC. LEASE: "D" STEWARD

WELL: 1 TEST: 1 GEOLOGIST: LAUER

ELEVATION (KB): 1090 FORMATION: LAYTON

SECTION: 1 TOWNSHIP: 32S

RANGE: 8E COUNTY: CHAUTAUQUA STATE: KANSAS

GAUGE SN #2605 RANGE: 3000 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	754	PSI
(B) FIRST INITIAL FLOW PRESSURE:	76	PSI
(C) FIRST FINAL FLOW PRESSURE:	58	PSI
(D) INITIAL CLOSED-IN PRESSURE:	393	PSI
(E) SECOND INITIAL FLOW PRESSURE:	90	PSI
(F) SECOND FINAL FLOW PRESSURE:	68	PSI
(G) FINAL CLOSED-IN PRESSURE:	377	PSI
(H) FINAL HYDROSTATIC PRESSURE:	690	PSI
WELL TEMPERATURE:	86	'F

OPEN TOOL: 3:45

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	75 MIN	75 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

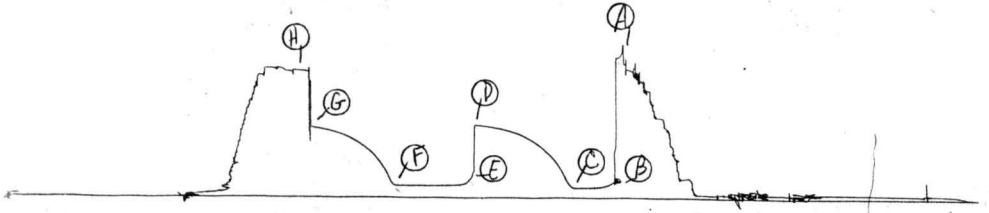
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	76	0	58	0	90	0	68
2	5	76	3	72	5	90	3	123
3	10	65	6	103	10	74	6	161
4	15	62	9	145	15	71	9	193
5	20	60	12	180	20	70	12	219
6	25	59	15	210	25	69	15	241
7	30	58	18	232	30	68	18	262
8			21	252	35	68	21	279
9			24	272	40	68	24	292
10			27	289	45	68	27	305
11			30	303	50	68	30	317
12			33	317	55	68	33	327
13			36	328	60	68	36	337
14			39	339			39	344
15			42	348			42	351
16			45	356			45	357
17			48	361			48	361
18			51	366			51	365
19			54	371			54	369
20			57	376			57	373
21			60	381			60	377
22			63	384				
23			66	387				
24			69	389				
25			72	391				
26			75	393				
27								
28								
29								
30								

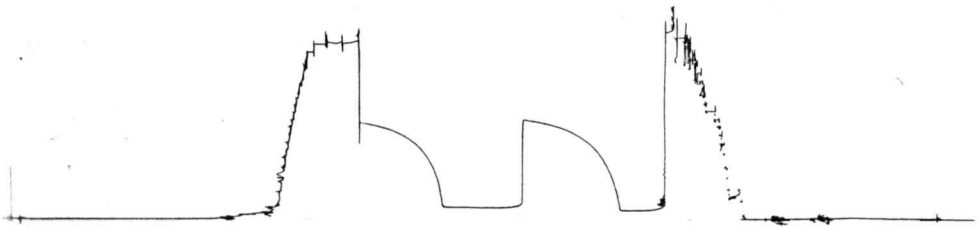
TKT # 3272

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DST #1
2605
3272



TKT # 3272

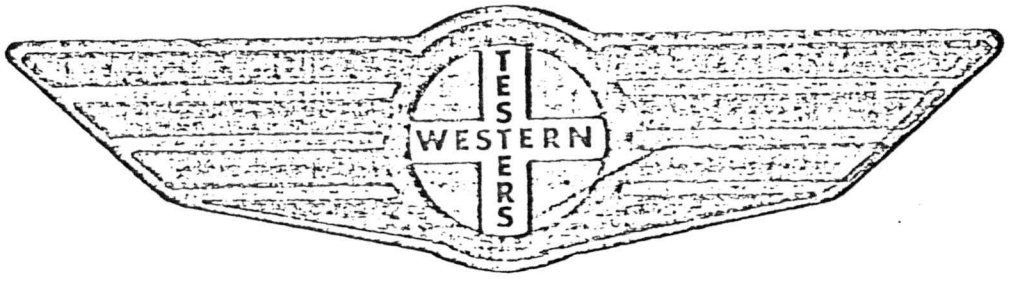


3272

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3474

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

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

Company RANGE OIL COMPANY, INC. Lease and Well No. #1 "D" STEWARD Sec. 1 Twp. 32S Rge. 8E Test No. 2 Date 2/20/83

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12/20/83 TICKET #3273
CUSTOMER: RANGE OIL COMPANY INC. LEASE: "D" STEWARD
WELL: 1 TEST: 2 GEOLOGIST: LAUER
ELEVATION (KB): 1090 FORMATION: LAYTON
SECTION: 1 TOWNSHIP: 32S
RANGE: 8E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 1479 FT TO: 1499 FT TOTAL DEPTH: 1499 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1479 FT SIZE: 6 3/4 IN PACKER DEPTH: 1474 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 8.9 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2390 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 20 FT SIZE: 5 1/2 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 IN

BLOW: INITIAL FLOW PERIOD FAIR BLOW - 2 INCHES.
FINAL FLOW PERIOD FAIR BLOW.

RECOVERED: 300 FT OF: MUDDY SALTWATER
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): 11:40 AM TIME STARTED OFF BOTTOM: 2:40 PM
WELL TEMPERATURE: 86 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 684	PSI
INITIAL FLOW PERIOD	MIN: 30	(B) 84	PSI TO (C) 110 PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 496	PSI
FINAL FLOW PERIOD	MIN: 60	(E) 152	PSI TO (F) 187 PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 674	PSI
FINAL HYDROSTATIC PRESSURE		(H) 666	PSI

WESTERN TESTING CO. INC.

PRESSURE DATA

DATE: 12/20/83 TICKET #3273

CUSTOMER: RANGE OIL COMPANY INC. LEASE: "D" STEWARD

WELL: 1 TEST: 2 GEOLOGIST: LAUER

ELEVATION (KB): 1090 FORMATION: LAYTON

SECTION: 1 TOWNSHIP: 32S

RANGE: 8E COUNTY: CHAUTAUQUA STATE: KANSAS

GAUGE SN #2605 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	684	PSI
(B) FIRST INITIAL FLOW PRESSURE:	84	PSI
(C) FIRST FINAL FLOW PRESSURE:	110	PSI
(D) INITIAL CLOSED-IN PRESSURE:	496	PSI
(E) SECOND INITIAL FLOW PRESSURE:	152	PSI
(F) SECOND FINAL FLOW PRESSURE:	187	PSI
(G) FINAL CLOSED-IN PRESSURE:	674	PSI
(H) FINAL HYDROSTATIC PRESSURE:	666	PSI
WELL TEMPERATURE:	86	'F

OPEN TOOL: 11:40 AM

	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	84	0	110	0	152	0	187
2	5	84	3	239	5	152	3	535
3	10	84	6	341	10	152	6	576
4	15	87	9	411	15	152	9	596
5	20	95	12	431	20	152	12	614
6	25	105	15	444	25	153	15	627
7	30	110	18	457	30	161	18	638
8			21	467	35	168	21	645
9			24	477	40	176	24	650
10			27	487	45	182	27	655
11			30	496	50	187	30	660
12					55	187	33	664
13					60	187	36	667
14							39	670
15							42	672
16							45	674
17							48	674
18							51	674
19							54	674
20							57	674
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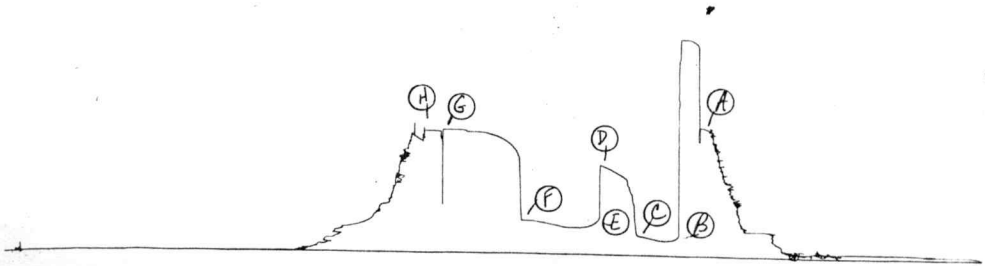
TKT # 3273

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DST #2



TKT # 3273

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DST # 2 3474 3272

