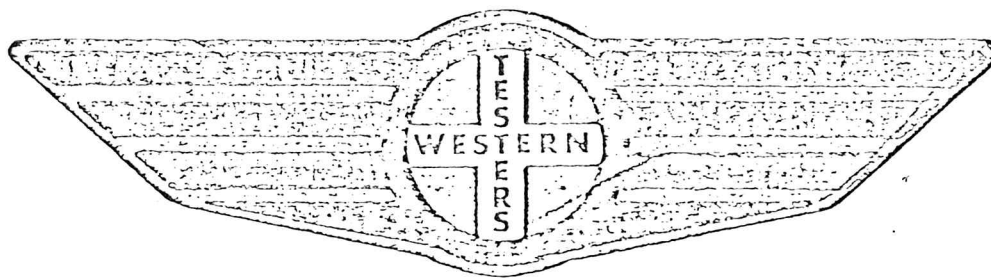


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____
RANGE OIL CO. INC.
Lease and Well No. _____ #1 MINARD
Sec. 8 Twp. 27S Rge. 6E
Test No. _____ Date 7/1/70

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4/6/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1387 FORMATION: MISSISSIPPI
SECTION: 8 TOWNSHIP: 27S
RANGE: 6E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2736 FT TO: 2752 FT TOTAL DEPTH: 2752 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2736 FT SIZE: 6 3/4 IN PACKER DEPTH: 2731 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 52
WEIGHT: 9.6 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1800
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2596 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 16 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 XH IN

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

RECOVERED: 60 FT OF: GAS ABOVE FLUID.
RECOVERED: 4 FT OF: OIL CUT MUD. 50% OIL.
RECOVERED: 80 FT OF: MUDDY SALT WATER.
RECOVERED: FT OF: (VERY SLIGHTLY OIL CUT) LESS THAN 2% OIL.
RECOVERED: FT OF: CHLORIDES 58000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 4:45 PM TIME STARTED OFF BOTTOM: 7:45 PM
WELL TEMPERATURE: 101 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1390 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 36 PSI TO (C) 36 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 541 PSI
FINAL FLOW PERIOD MIN: 60 (E) 62 PSI TO (F) 62 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 546 PSI
FINAL HYDROSTATIC PRESSURE (H) 1390 PSI

Don't know

TICKET #4162
LEASE: MINARD
GEOLOGIST: BAKER
MISSISSIPPI
27S
STATE: KANSAS
CLOCK: 12

TUAL
MIN
MIN
MIN
MIN

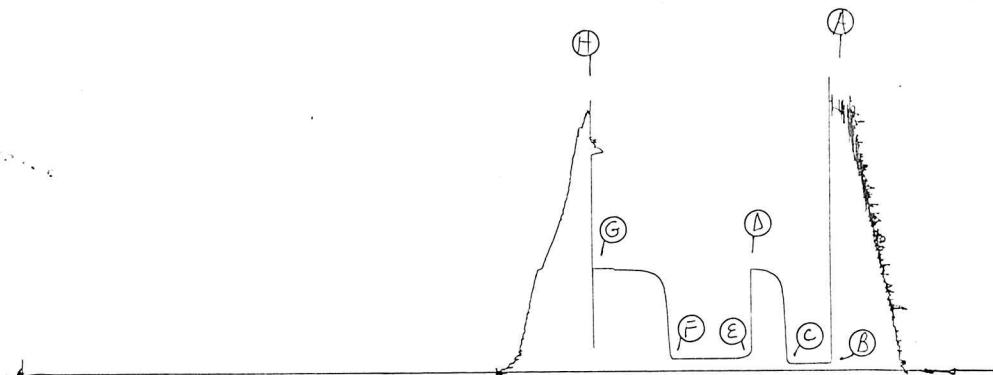
RE	FINAL MIN	SHUT-IN PRESSURE
G2	0	62
G2	3	143
G2	6	374
G2	9	465
G2	12	497
G2	15	512
G2	18	521
G2	21	529
G2	24	533
G2	27	535
G2	30	537
G2	33	539
G2	36	540
	39	541
	42	542
	45	543
	48	544
	51	545
	54	545
	57	546
	60	546

TKT # 4162

2605
DST # 1



4162



TKT # 4162

0



3474

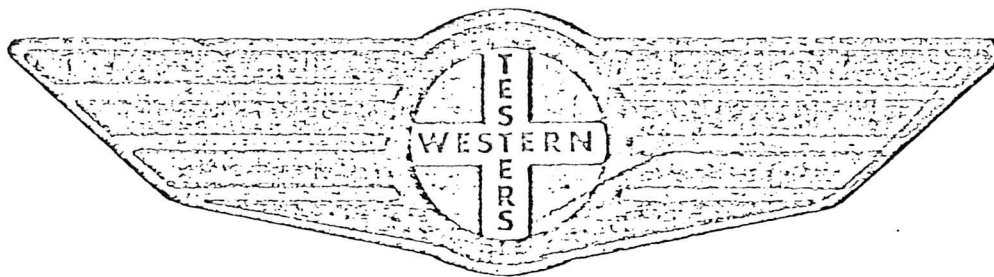
DST # 1

4162

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4/8/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1387 FORMATION: VIOLA
SECTION: 8 TOWNSHIP: 27S
RANGE: 6E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #13266 RANGE: 4200 CLOCK: 12

INTERVAL TEST FROM: 3125 FT TO: 3137 FT TOTAL DEPTH: 3137 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3125 FT SIZE: 6 3/4 IN PACKER DEPTH: 3120 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLO
MUD TYPE: CHEMICAL VISCOSITY: 57
WEIGHT: 9.8 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1800
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2985 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 12 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: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 3 FT OF: FREE OIL. 38 GRAVITY.
RECOVERED: 65 FT OF: VERY SLIGHTLY OIL CUT MUDDY SALT WATER.
RECOVERED: FT OF: LESS THAN 2% OIL.
RECOVERED: FT OF: RESISTIVITY 1.0 AT 60 DEGREES.
RECOVERED: FT OF: CHLORIDES 21000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 11:30 AM
WELL TEMPERATURE: 106 °F

TIME STARTED OFF BOTTOM: 2:30 PM

INITIAL HYDROSTATIC PRESSURE:		(A) 1456	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 15	PSI TO (C) 27	PSI
INITIAL CLOSED IN PERIOD	MIN: 33	(D) 538	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 45	PSI TO (F) 58	PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 548	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1442	PSI	

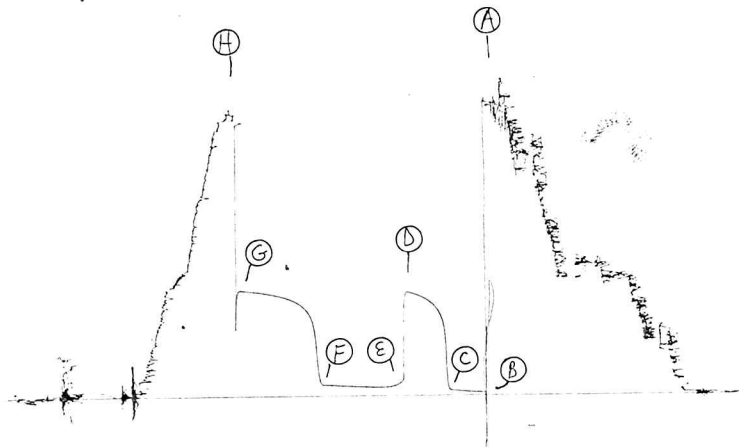
TICKET #4148
LEASE: MINARD
GEOLOGIST: BAKER
VIOLA
27S
STATE: KANSAS
CLOCK: 12

TUAL
MIN
MIN
MIN
MIN

TIME	FINAL MIN	SHUT-IN PRESSURE
15	0	58
15	3	92
15	6	289
15	9	394
16	12	437
17	15	459
18	18	478
19	21	489
20	24	499
22	27	507
24	30	514
26	33	518
28	36	522
	39	526
	42	530
	45	534
	48	538
	51	541
	54	544
	57	546
	60	548

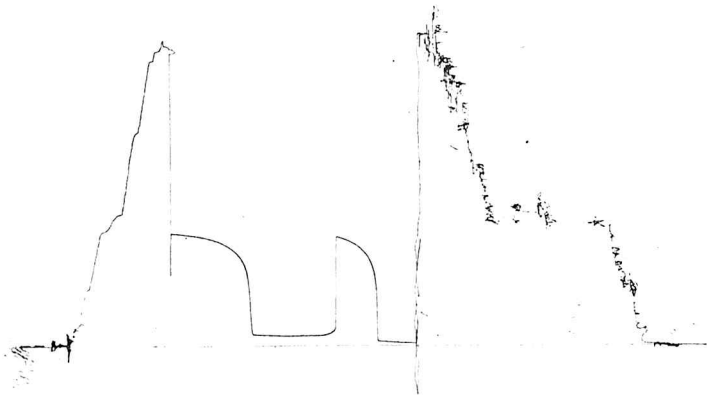
TKT # 4148

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TKT # 4148

O



13268

DST # 2

4148