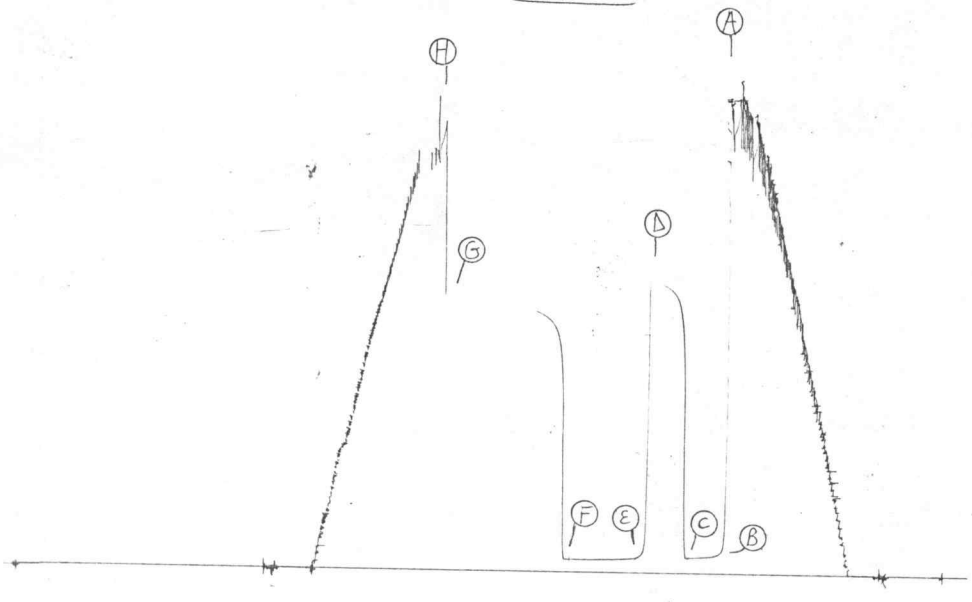


12402  
DST 41

TKT # 16715

I



WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 10/13/83  
CUSTOMER: RANGE OIL COMPANY INC.  
WELL: 4 TEST: 1  
ELEVATION (KB): 1522  
SECTION: 17  
RANGE: 10W  
GAUGE SN #13402

TICKET #16715  
LEASE: "A" STEWART  
GEOLOGIST: T. LAUER  
FORMATION: MISSISSIPPI  
TOWNSHIP: 33S  
STATE: KANSAS  
CLOCK: 12

INTERVAL TEST FROM: 4554 FT TO: 4585 FT TOTAL DEPTH: 4585 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4549 FT SIZE: 6 3/4 IN Packer DEPTH: 4554 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE #2  
MUD TYPE: CHEMICAL VISCOSITY: 40  
WEIGHT: 9.2 WATER LOSS (CC): 12.8  
CHLORIDES (P.P.M.): 11500  
JARS - MAKE: NO SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 270 FT I.D.: 2.2 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4264 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 31 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 X.H. IN

BLOW: STRONG BLOW. GAS TO SURFACE IN 3 MINUTES.  
SEE GAS FLOW REPORT.

RECOVERED: 5	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:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 1:07 P.M.  
WELL TEMPERATURE: 120 °F  
INITIAL HYDROSTATIC PRESSURE:  
INITIAL FLOW PERIOD MIN: 30  
INITIAL CLOSED IN PERIOD MIN: 27  
FINAL FLOW PERIOD MIN: 60  
FINAL CLOSED IN PERIOD MIN: 60  
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 4:37 P.M.

(A) 2255	PSI	
(B) 93	PSI TO (C) 78	PSI
(D) 1494	PSI	
(E) 79	PSI TO (F) 63	PSI
(G) 1379	PSI	
(H) 2174	PSI	

## PRESSURE DATA

DATE: 10/13/83

CUSTOMER: RANGE OIL COMPANY INC.

TEST: 1

FORMATION: MISSISSIPPI

TOWNSHIP: 33S

COUNTY: BARBER

TICKET #16715

LEASE: "A" STEWART

GEOLOGIST: T. LAUER

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2255 PSI

(B) FIRST INITIAL FLOW PRESSURE: 93 PSI

(C) FIRST FINAL FLOW PRESSURE: 78 PSI

(D) INITIAL CLOSED-IN PRESSURE: 1494 PSI

(E) SECOND INITIAL FLOW PRESSURE: 79 PSI

(F) SECOND FINAL FLOW PRESSURE: 63 PSI

(G) FINAL CLOSED-IN PRESSURE: 1379 PSI

(H) FINAL HYDROSTATIC PRESSURE: 2174 PSI

WELL TEMPERATURE: 120 °F

OPEN TOOL: 1:07 P.M.

TIME - GIVEN      TIME - ACTUAL

FIRST FLOW PRESSURE: 30 MIN 30 MIN

INITIAL CLOSED-IN PRESSURE: 30 MIN 27 MIN

SECOND FLOW PRESSURE: 60 MIN 60 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 60 MIN

## PRESSURE BREAKDOWN

[illegible]

22  
23  
24  
25  
26  
27  
28  
29  
30

WESTERN TESTING CO. INC.  
GAS FLOW REPORT

DATE: 10/13/83  
CUSTOMER: RANGE OIL COMPANY INC.  
WELL: 4  
ELEVATION (KB): 1522  
SECTION: 17  
RANGE: 10W  
GAUGE SN #13402

TEST: 1

COUNTY: BARBER  
RANGE: 4025

FORMATION: MISSISSIPPI  
TOWNSHIP: 33S

TICKET #16715  
LEASE: "A" STEWART  
GEOLOGIST: T. LAUER  
STATE: KANSAS  
CLOCK: 12

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

3				GAS TO SURFACE
10	MERLA	1	5 PSIG	31900 CFPD
20		1	5 PSIG	319000 CFPD
30		1	5 PSIG	319000 CFPD

SECOND FLOW

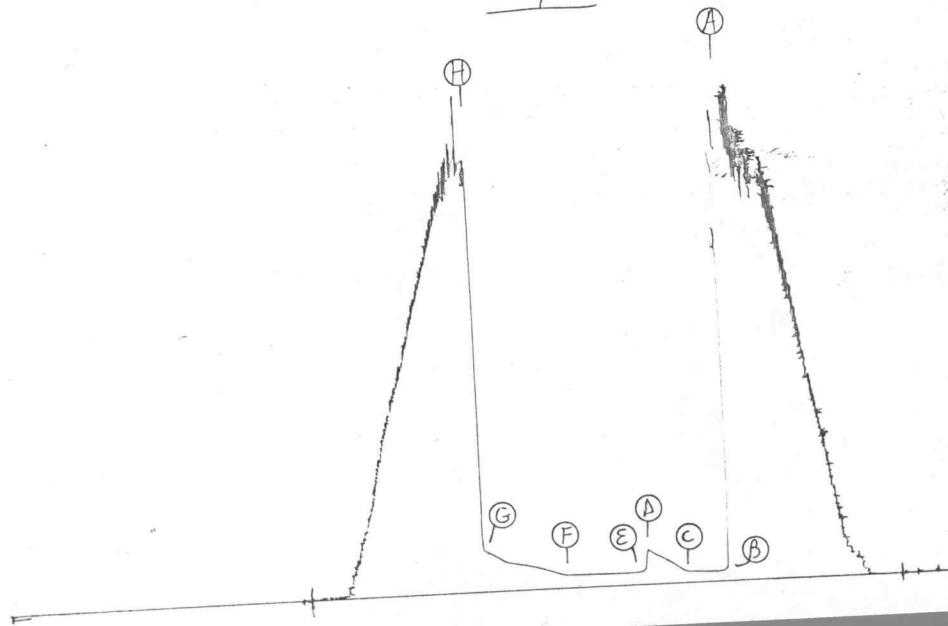
10	MERLA	1	5 PSIG	319000 CFPD
20		1	4 PSIG	283000 CFPD
30		1	4 PSIG	283000 CFPD
40		1	4 PSIG	283000 CFPD
50		1	4 PSIG	283000 CFPD
60		1	4 PSIG	283000 CFPD

GAS BOTTLE SN #:  
DATE BOTTLE FILLED:  
DATE TO BE INVOICED: 10/13/83

13402  
DST #2

TKT # 16716

I



WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 10/14/83

CUSTOMER: RANGE OIL COMPANY INC.

WELL: 4 TEST: 2

ELEVATION (KB): 1522

SECTION: 17

RANGE: 10W

GAUGE SN #13402

COUNTY: BARBER

RANGE: 4025

FORMATION: MISSISSIPPI

TOWNSHIP: 33S

TICKET #16716

LEASE: "A" STEWART

GEOLOGIST: T. LAUER

STATE: KANSAS

CLOCK: 12

INTERVAL TEST FROM: 4587 FT TO: 4610 FT TOTAL DEPTH: 4610 FT  
DEPTH OF SELECTIVE ZONE: FT

PACKER DEPTH: 4583 FT SIZE: 6 3/4 IN PACKER DEPTH: 4587 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE #2

MUD TYPE: CHEMICAL

VISCOSITY: 40

WEIGHT: 9.2

WATER LOSS (CC): 12.8

CHLORIDES (P.P.M.): 11500

JARS - MAKE: NO

SERIAL NUMBER:

DID WELL FLOW? NO

REVERSED OUT? NO

DRILL COLLAR LENGTH: 330 FT I.D.: 2.2 IN

WEIGHT PIPE LENGTH: FT I.D.: IN

DRILL PIPE LENGTH: 4237 FT I.D.: 3.8 IN

TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: 23 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 X.H. IN

BLOW: STRONG THROUGH BOTH FLOW PERIODS.

RECOVERED: 780	FT	OF: GAS ABOVE FLUID
RECOVERED: 90	FT	OF: SLIGHTLY OIL & GAS CUT MUD
RECOVERED:	FT	OF: 70% MUD; 10% WATER; 10% OIL; 10% GAS
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 5:30 A.M.

TIME STARTED OFF BOTTOM: 9:00 A.M.

WELL TEMPERATURE: 120 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 60

FINAL CLOSED IN PERIOD MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 2240	PSI		
(B) 54	PSI TO (C) 61	PSI	
(D) 179	PSI		
(E) 65	PSI TO (F) 71	PSI	
(G) 211	PSI		
(H) 2196	PSI		

