

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 10/3/83 TICKET #1781  
 CUSTOMER: GRAHAM-MICHAELIS CORP. LEASE: UHL  
 WELL: 2-4 TEST: 1 GEOLOGIST: TRACEY  
 ELEVATION (KB): 2170 FORMATION: MISSISSIPPI  
 SECTION: 4 TOWNSHIP: 31S  
 RANGE: 18W COUNTY: COMANCHE STATE: KANSAS  
 GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 5025 FT TO: 5075 FT TOTAL DEPTH: 5075 FT  
 DEPTH OF SELECTIVE ZONE: FT  
 PACKER DEPTH: 5020 FT SIZE: 6 5/8 IN PACKER DEPTH: 5025 FT SIZE: 6 5/8 IN  
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER  
 MUD TYPE: STARCH VISCOSITY: 51  
 WEIGHT: 9.7 WATER LOSS (CC): 8.8  
 CHLORIDES (P.P.M.): 56000  
 JARS - MAKE: WTC SERIAL NUMBER: 410  
 DID WELL FLOW? YES REVERSED OUT? NO  
 DRILL COLLAR LENGTH: FT I.D.: IN  
 WEIGHT PIPE LENGTH: 1030 FT I.D.: 2.7 IN  
 DRILL PIPE LENGTH: 3966 FT I.D.: 3.8 IN  
 TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN  
 ANCHOR LENGTH: 50 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 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.  
 GAS TO SURFACE IN 16 MINUTES ON PREFLOW.  
 SEE ATTACHED GAS SHEET.

RECOVERED: 360 FT OF: OIL & GAS CUT MUD  
 RECOVERED: 120 FT OF: HEAVY OIL & GAS CUT MUD  
 RECOVERED: 120 FT OF: FOGGY GASSY OIL  
 RECOVERED: FT OF:  
 RECOVERED: FT OF:  
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REMARKS: PLUGGING ACTION ON BOTH INITIAL  
 AND FINAL FLOW PERIODS.

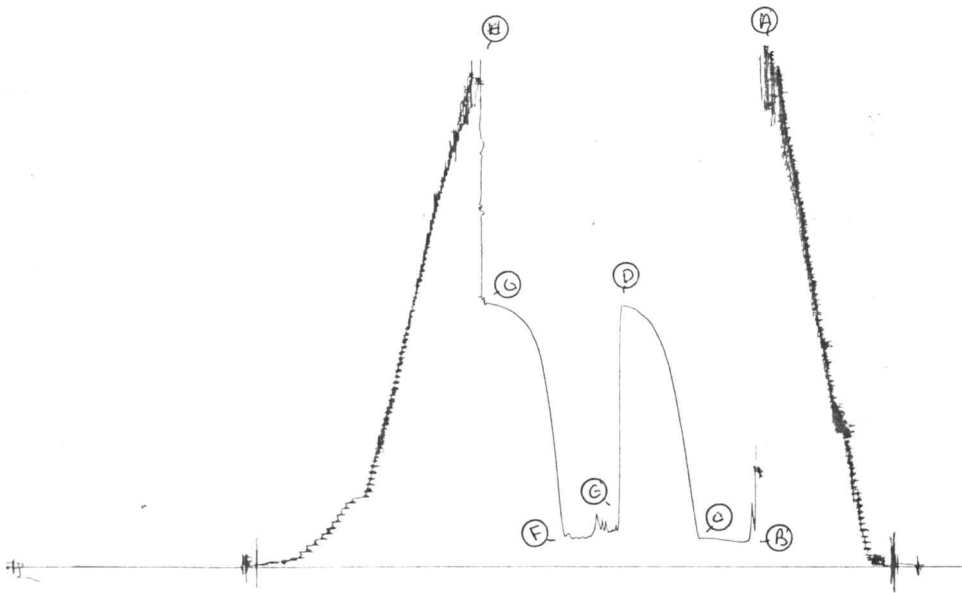
TIME SET PACKER(S): 2:50 PM TIME STARTED OFF BOTTOM: 6:20 PM  
 WELL TEMPERATURE: 130 °F  
 INITIAL HYDROSTATIC PRESSURE: (A) 2606 PSI  
 INITIAL FLOW PERIOD MIN: 40 (B) 189 PSI TO (C) 153 PSI  
 INITIAL CLOSED IN PERIOD MIN: 60 (D) 1441 PSI  
 FINAL FLOW PERIOD MIN: 40 (E) 193 PSI TO (F) 165 PSI  
 FINAL CLOSED IN PERIOD MIN: 57 (G) 1448 PSI  
 FINAL HYDROSTATIC PRESSURE (H) 2590 PSI





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WESTERN TESTING CO., INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 10/4/83 TICKET #1782  
CUSTOMER: GRAHAM-MICHAELIS CORP. LEASE: UHL  
WELL: 2-4 TEST: 2 GEOLOGIST: TRACEY  
ELEVATION (KB): 2170 FORMATION: MISSISSIPPI  
SECTION: 4 TOWNSHIP: 31S  
RANGE: 18W COUNTY: COMANCHE STATE: KANSAS  
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 5076 FT TO: 5100 FT TOTAL DEPTH: 5100 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 5071 FT SIZE: 6 5/8 IN PACKER DEPTH: 5076 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RED TIGER  
MUD TYPE: STARCH VISCOSITY: 50  
WEIGHT: 9.7 WATER LOSS (CC): 10.4  
CHLORIDES (P.P.M.): 56000  
JARS - MAKE: WTC SERIAL NUMBER: 410  
DID WELL FLOW? YES REVERSED OUT? NO  
DRILL COLLAR LENGTH: FT I.D.: IN  
WEIGHT PIPE LENGTH: 1060 FT I.D.: 2.7 IN  
DRILL PIPE LENGTH: 3987 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 24 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 FH IN

BLOW: STRONG BLOW THROUGHOUT TEST.  
GAS TO SURFACE IMMEDIATELY ON SECOND FLOW.  
SEE ATTACHED GAS SHEET.

RECOVERED: 90 FT OF: OIL & GAS CUT MUD  
RECOVERED: 180 FT OF: FOGGY MUDDY GASSY OIL  
RECOVERED: 300 FT OF: FOGGY GASSY OIL  
RECOVERED: FT OF:  
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RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 9:55 AM TIME STARTED OFF BOTTOM: 1:25 PM  
WELL TEMPERATURE: 130 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2663 PSI  
INITIAL FLOW PERIOD MIN: 45 (B) 123 PSI TO (C) 157 PSI  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1443 PSI  
FINAL FLOW PERIOD MIN: 40 (E) 191 PSI TO (F) 250 PSI  
FINAL CLOSED IN PERIOD MIN: 60 (G) 1415 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2642 PSI



WESTERN TESTING CO. INC.  
GAS FLOW REPORT

DATE: 10/4/83  
CUSTOMER: GRAHAM-MICHAELIS CORP.  
WELL: 2-4 TEST: 2  
ELEVATION (KB): 2170 FORMATION: MISSISSIPPI  
SECTION: 4 TOWNSHIP: 31S  
RANGE: 18W COUNTY: COMANCHE STATE: KANSAS  
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

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

SECOND FLOW

0				GAS TO SURFACE IMMEDIATELY
5	MERLA	1/2	2" WTR	8870 CFPD
15		1/2	5" WTR	14100 CFPD
25		1/2	7" WTR	16700 CFPD
35		1/2	7" WTR	16700 CFPD
45		1/2	7" WTR	16700 CFPD

GAS BOTTLE SN #:  
DATE BOTTLE FILLED:  
DATE TO BE INVOICED: 10/4/83

GAS FLOW REPORT

DATE: 10/4/83  
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PRE FLOW

SECOND FLOW

0				GAS TO SURFACE IMMEDIATELY
5	MERLA	1/2	2" WTR	8870 CFPD
15		1/2	5" WTR	14100 CFPD
25		1/2	7" WTR	16700 CFPD
35		1/2	7" WTR	16700 CFPD
45		1/2	7" WTR	16700 CFPD

GAS BOTTLE SN #:  
 DATE BOTTLE FILLED:  
 DATE TO BE INVOICED: 10/4/83

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