

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/13/83
CUSTOMER: AURORA INC.
WELL: 1
ELEVATION (KB): 0
SECTION: 12
RANGE: 8W
GAUGE SN #13402

TEST: 1

FORMATION: TARKIO
TOWNSHIP: 28S

COUNTY: KINGMAN
RANGE: 4025

TICKET #2763
LEASE: E G LINDQUIST TRUST
GEOLOGIST: BECKER
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 2292 FT TO: 2367 FT TOTAL DEPTH: 2367 FT
DEPTH OF SELECTIVE ZONE:
PACKER DEPTH: 2287 FT SIZE: 6 3/4 IN PACKER DEPTH: 2292 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: H-30 #5

MUD TYPE: CHEMICAL

VISCOSITY: 31

WEIGHT: 9.4

WATER LOSS (CC): N/C

CHLORIDES (P.P.M.): 29000

JARS - MAKE: NO

SERIAL NUMBER:

DID WELL FLOW? YES

REVERSED OUT? NO

DRILL COLLAR LENGTH: 240

FT

I.D.: 2.2

IN

WEIGHT PIPE LENGTH:

FT

I.D.:

IN

DRILL PIPE LENGTH: 2032

FT

I.D.: 3.8

IN

TEST TOOL LENGTH: 22

FT

TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: DP31+44

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 - GAS TO SURFACE IN 9 MINUTES.
WATER TO SURFACE IN 14 MINUTES.
NO GAUGE ON GAS. SAMPLE BOTTLE #101.

RECOVERED: 800	FT	OF: WATER
RECOVERED:	FT	OF: CHLORIDES 94000 P.P.M.
RECOVERED:	FT	OF: 9.8 BBLS.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 2:25 P.M.

TIME STARTED OFF BOTTOM: 5:10 P.M.

WELL TEMPERATURE: 100 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD

MIN: 30

INITIAL CLOSED IN PERIOD

MIN: 45

FINAL FLOW PERIOD

MIN: 30

FINAL CLOSED IN PERIOD

MIN: 60

FINAL HYDROSTATIC PRESSURE

(A) 1096

PSI

(B) 596

PSI TO (C) 735

PSI

(D) 927

PSI

(E) 648

PSI TO (F) 715

PSI

(G) 924

PSI

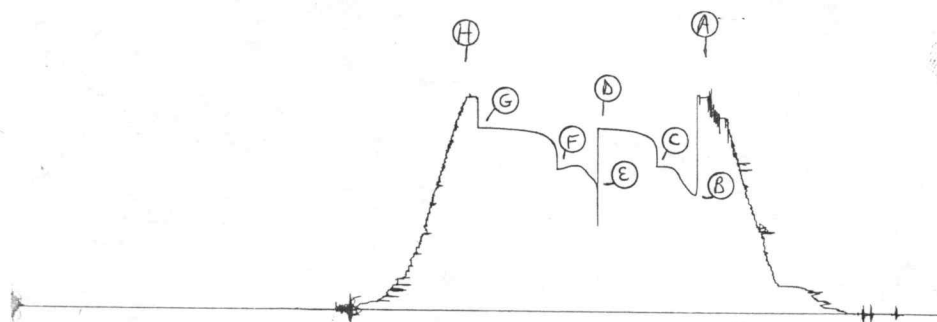
(H) 1080

PSI

13402
DST #1

TKT # 2763

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/16/83
CUSTOMER: AURORA INC.
WELL: 1
ELEVATION (KB): 0
SECTION: 12
RANGE: 8W
GAUGE SN #13402

TEST: 2

FORMATION: MISSISSIPPI
TOWNSHIP: 28S

COUNTY: KINGMAN
RANGE: 4025

TICKET #2764
LEASE: E. G. LINDQUIST
GEOLOGIST: G. BECKER
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3966 FT TO: 3979 FT TOTAL DEPTH: 3979 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3966 FT SIZE: 6 3/4 IN PACKER DEPTH: FT SIZE: IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: H-30 #5

MUD TYPE: CHEMICAL

VISCOSITY: 56

WEIGHT: 9.3

WATER LOSS (CC): 6.4

CHLORIDES (P.P.M.): 10000

JARS - MAKE: NO

SERIAL NUMBER:

DID WELL FLOW? NO

REVERSED OUT? NO

DRILL COLLAR LENGTH: 240

FT I.D.: 2.2 IN

WEIGHT PIPE LENGTH:

FT I.D.: IN

DRILL PIPE LENGTH: 3711

FT I.D.: 3.8 IN

TEST TOOL LENGTH: 15

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

ANCHOR LENGTH: 13

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 29 MINUTES.
SEE GAS FLOW REPORT.

RECOVERED: 90	FT	OF: GAS CUT MUD
RECOVERED: 120	FT	OF: WATER
RECOVERED:	FT	OF: CHLORIDES 110000 P.P.M.
RECOVERED:	FT	OF: 1.03 BBLS.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 12:15 A.M.

TIME STARTED OFF BOTTOM: 3:15 A.M.

WELL TEMPERATURE: 128 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 1960 PSI

INITIAL FLOW PERIOD

MIN: 30

(B) 51

PSI TO (C) 55 PSI

INITIAL CLOSED IN PERIOD

MIN: 45

(D) 1389

PSI

FINAL FLOW PERIOD

MIN: 45

(E) 50

PSI TO (F) 81 PSI

FINAL CLOSED IN PERIOD

MIN: 60

(G) 1365

PSI

FINAL HYDROSTATIC PRESSURE

(H) 1932

PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/16/83
CUSTOMER: AURORA INC.
WELL: 1
ELEVATION (KB): 0
SECTION: 12
RANGE: 8W
GAUGE SN #13402

TEST: 2

COUNTY: KINGMAN
RANGE: 4025

TICKET #2764
LEASE: E. G. LINDQUIST
GEOLOGIST: G. BECKER
FORMATION: MISSISSIPPI
TOWNSHIP: 28S
STATE: KANSAS
CLOCK: 12

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

29

GAS TO SURFACE

SECOND FLOW

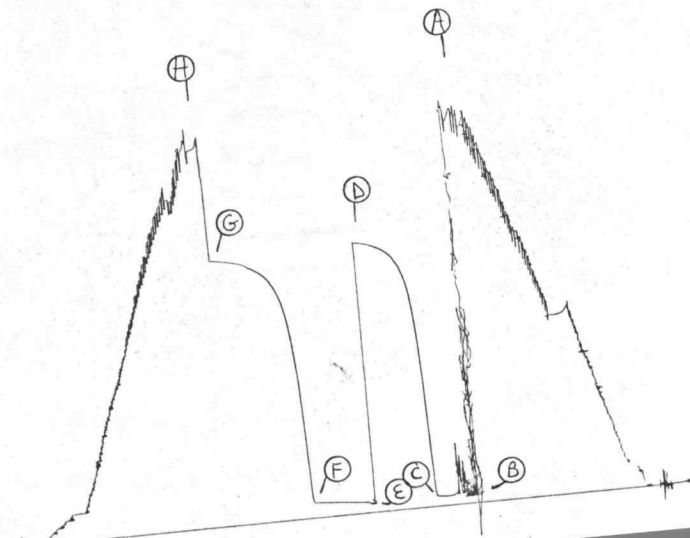
10	MERLA	1/2	11" WTR	20900 CFPD
20		1/2	9" WTR	18800 CFPD
30		1/2	9" WTR	18800 CFPD
40		1/2	9" WTR	18800 CFPD
45		1/2	9" WTR	18800 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 11/16/83

13402
DST #2

TKT # 2764

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/18/83
CUSTOMER: AURORA INC.
WELL: 1
ELEVATION (KB): 0
SECTION: 12
RANGE: 8W
GAUGE SN #13402

TEST: 3

COUNTY: KINGMAN
RANGE: 4025

FORMATION: VIOLA
TOWNSHIP: 28S

TICKET #2766
LEASE: E G LINDQUIST TRUST
GEOLOGIST: G. BECKER
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4290 FT TO: 4325 FT TOTAL DEPTH: 4325 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4285 FT SIZE: 6 3/4 IN PACKER DEPTH: 4290 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: H-30 #5

MUD TYPE: CHEMICAL

VISCOSITY: 44

WEIGHT: 9.3

WATER LOSS (CC): 8.8

CHLORIDES (P.P.M.): 11000

JARS - MAKE: NO

SERIAL NUMBER:

DID WELL FLOW? NO

REVERSED OUT? NO

DRILL COLLAR LENGTH: 240

FT I.D.: 2.2 IN

WEIGHT PIPE LENGTH:

FT I.D.: IN

DRILL PIPE LENGTH: 4028

FT I.D.: 3.8 IN

TEST TOOL LENGTH: 22

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 X.H. IN

BLOW: STRONG THRU BOTH FLOW PERIODS - OFF BOTTOM
OF BUCKET IN 14 MINUTES.

RECOVERED: 80	FT	OF: SLIGHTLY OIL & GAS CUT MUD	.39 BBLS.
RECOVERED: 45	FT	OF: HEAVY OIL & GAS CUT MUD	.22 BBLS.
RECOVERED: 125	FT	OF: TOTAL FLUID	.61 BBLS
RECOVERED:	FT	OF: TOP: 1% OIL; 10% GAS; 89% MUD	
RECOVERED:	FT	OF: BOTTOM: 15% OIL; 60% GAS; 25% MUD	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS: DRILLER TURNED TOOL 9 TIMES INITIAL FLOW.

TIME SET PACKER(S): 1:10 A.M.

TIME STARTED OFF BOTTOM: 3:55 A.M.

WELL TEMPERATURE: 126 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 75

INITIAL CLOSED IN PERIOD MIN: 93

FINAL FLOW PERIOD MIN: 0

FINAL CLOSED IN PERIOD MIN: 0

FINAL HYDROSTATIC PRESSURE

(A) 2102	PSI	
(B) 67	PSI TO (C) 85	PSI
(D) 700	PSI	
(E) 0	PSI TO (F) 0	PSI
(G) 0	PSI	
(H) 2095	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11/18/83
CUSTOMER: AURORA INC.
WELL: 1
ELEVATION (KB): 0
SECTION: 12
RANGE: 8W
GAUGE SN #13402

TEST: 3
COUNTY: KINGMAN
RANGE: 4025

TICKET #2766
LEASE: E G LINDQUIST TRUST
GEOLOGIST: G. BECKER
FORMATION: VIOLA
TOWNSHIP: 28S
STATE: KANSAS
CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2102 PSI
(B) FIRST INITIAL FLOW PRESSURE: 67 PSI
(C) FIRST FINAL FLOW PRESSURE: 85 PSI
(D) INITIAL CLOSED-IN PRESSURE: 700 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: 2095 PSI
WELL TEMPERATURE: 126 °F
OPEN TOOL: 1:10 A.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	75 MIN	75 MIN
INITIAL CLOSED-IN PRESSURE:	90 MIN	93 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	67	0	85	0	0	0	0
2	5	67	3	104				
3	10	67	6	124				
4	15	67	9	149				
5	20	68	12	178				
6	25	69	15	209				
7	30	71	18	240				
8	35	73	21	272				
9	40	75	24	299				
10	45	78	27	328				
11	50	80	30	359				
12	55	81	33	388				
13	60	82	36	415				
14	65	83	39	439				
15	70	84	42	463				
16	75	85	45	489				
17			48	511				
18			51	531				
19			54	550				
20			57	568				
21			60	583				
22			63	597				
23			66	613				
24			69	627				
25			72	640				
26			75	652				
27			78	662				
28			81	672				
29			84	681				
30			87	688				

13402
DST # 3

TKT # 2766

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