

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/8/83
CUSTOMER: MIDCO EXPLORATION INC.
WELL: 1
ELEVATION (KB): 2053
SECTION: 20
RANGE: 24W
GAUGE SN #13402

TEST: 1
FORMATION: MORROW & CHESTER
TOWNSHIP: 33S
COUNTY: CLARK
RANGE: 4025

TICKET #2759
LEASE: BAKER
GEOLOGIST:
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 5385 FT TO: 5445 FT TOTAL DEPTH: 5445 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 5380 FT SIZE: 6 3/4 IN Packer DEPTH: 5385 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: UNION #1
MUD TYPE: CHEM VISCOSITY: 39
WEIGHT: 9.4 WATER LOSS (CC): 16.4
CHLORIDES (P.P.M.): 11000
JARS - MAKE: W.T.C SERIAL NUMBER: 405
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 480 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4876 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 60 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 XH IN

BLOW: STRONG GAS TO SURFACE IN 7 MINUTES.

RECOVERED: 390	FT	OF: SLIGHTLY GAS CUT &
RECOVERED:	FT	OF: SLIGHTLY CONDENSATE CUT MUD.
RECOVERED:	FT	OF:
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RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 11:00 A.M. TIME STARTED OFF BOTTOM: 3:45 P.M.
WELL TEMPERATURE: 128 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2753 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 344 PSI TO (C) 270 PSI
INITIAL CLOSED IN PERIOD MIN: 42 (D) 1769 PSI
FINAL FLOW PERIOD MIN: 90 (E) 203 PSI TO (F) 148 PSI
FINAL CLOSED IN PERIOD MIN: 123 (G) 1799 PSI
FINAL HYDROSTATIC PRESSURE (H) 2601 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 11/8/83
CUSTOMER: MIDCO EXPL
WELL: 1
ELEVATION (KB): 2053
SECTION: 20
RANGE: 24W
GAUGE SN #13402

TEST: 1

COUNTY: CLARK
RANGE: 4025

TICKET #2759
LEASE: BAKER
GEOLOGIST:
MORROW & CHESTER
335
STATE: KANSAS
CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2753	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	344	PSI
(C)	FIRST FINAL FLOW PRESSURE:	270	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1769	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	203	PSI
(F)	SECOND FINAL FLOW PRESSURE:	148	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1799	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2601	PSI
	WELL TEMPERATURE:	128	'F
	OPEN TOOL: 11:00 A.M.		

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	45 MIN	42 MIN
SECOND FLOW PRESSURE:	90 MIN	90 MIN
FINAL CLOSED-IN PRESSURE:	120 MIN	123 MIN

PRESSURE BREAKDOWN

[illegible]

PRESSURE BREAKDOWN

CONT. TICKET #2759

FIRST FLOW

INITIAL SHUT-IN

SECOND FLOW

FINAL SHUT-IN

PT MIN PRESSURE

MIN PRESSURE

MIN PRESSURE

MIN PRESSURE

31					90	1717
32					93	1727
33					96	1737
34					99	1746
35					102	1754
36					105	1762
37					108	1769
38					111	1777
39					114	1782
40					117	1790
41					120	1796
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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 11/8/83

TICKET #2759

CUSTOMER: MIDCO EXPLORATION INC.

LEASE: BAKER

WELL: 1

TEST: 1

GEOLOGIST:

ELEVATION (KB): 2053

FORMATION: MORROW & CHESTER

SECTION: 20

TOWNSHIP: 33S

RANGE: 24W

COUNTY: CLARK

STATE: KANSAS

GAUGE SN #13402

RANGE: 4025

CLOCK: 12

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

7				GAS TO SURFACE IN 7 MINUTES.
20	MERLA	1	8" PSIG	415000 CFPD
30		1	8" PSIG	415000 CFPD

SECOND FLOW

10	MERLA	1	10" PSIG	472000 CFPD
20		"	8.5 PSIG	429000 " "
30		"	8" PSIG	415000 " "
40		"	7" PSIG	385000 " "
50		"	6" PSIG	353000 " "
60		"	6" PSIG	353000 " "
70		"	6" PSIG	353000 " "
80		"	6" PSIG	353000 " "
90		"	6" PSIG	353000 " "

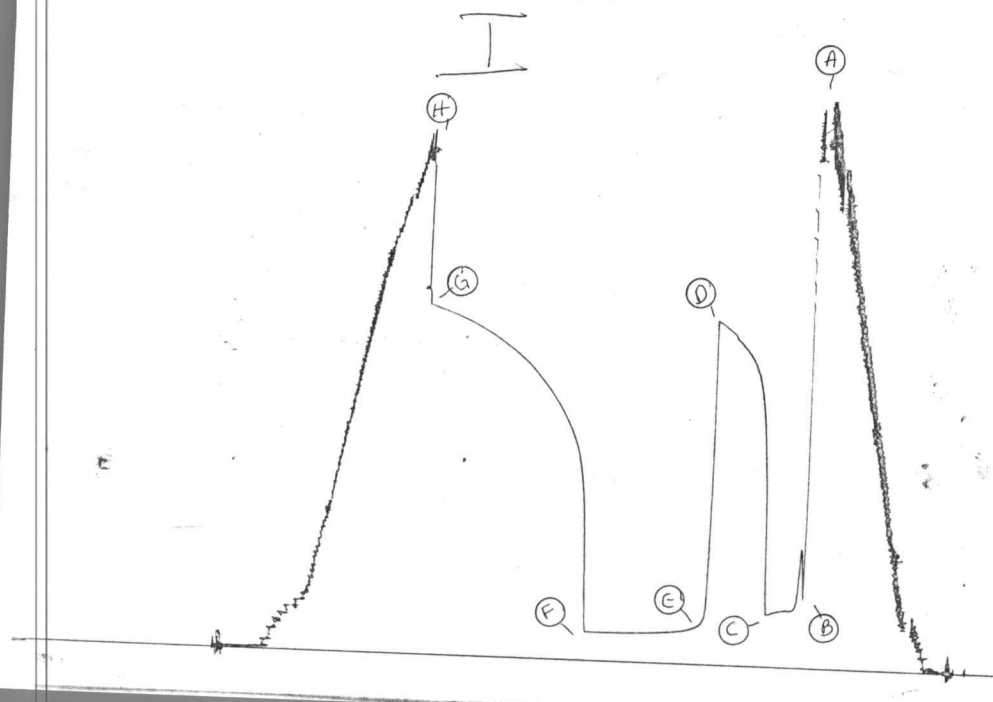
GAS BOTTLE SN #: 111

DATE BOTTLE FILLED: 11/8/83

DATE TO BE INVOICED:

13402
DST #1

7Ck# 2759



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/8/83
CUSTOMER: MIDCO EXPLORATION INC.
WELL: 1
ELEVATION (KB): 2058
SECTION: 20
RANGE: 24W
GAUGE SN #13402

TEST: 2
FORMATION: CHESTER
TOWNSHIP: 33S
COUNTY: CLARK
RANGE: 4025

TICKET #2760
LEASE: BAKER
GEOLOGIST:
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 5426 FT TO: 5445 FT TOTAL DEPTH: 5445 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 5421 FT SIZE: 6 3/4 IN PACKER DEPTH: 5426 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: UNION #1
MUD TYPE: CHEM VISCOSITY: 53
WEIGHT: 9.5 WATER LOSS (CC): 9.2
CHLORIDES (P.P.M.): 9000
JARS - MAKE: W.T.C. SERIAL NUMBER: 406
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 480 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4917 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 29 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 19 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 XH IN

BLOW: INITIAL FLOW PERIOD STRONG WHEN
OPENED 2" VERY WEAK AFTER 2 MINUTES.
FINAL FLOW PERIOD FLUSHED TOOL
FAIR BLOW DECREASING TO NO BLOW IN 35 MIN.

RECOVERED: 30	FT	OF: 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: FLUSHED TOOL ON FINAL FLOW PERIOD.

TIME SET PACKER(S): 8:20 P.M.	TIME STARTED OFF BOTTOM: 12:05 A.M.
WELL TEMPERATURE: 128 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2765 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 336 PSI TO (C) 407 PSI
INITIAL CLOSED IN PERIOD MIN: 45	(D) 512 PSI
FINAL FLOW PERIOD MIN: 60	(E) 512 PSI TO (F) 635 PSI
FINAL CLOSED IN PERIOD MIN: 84	(G) 747 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2660 PSI

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TICKET #2760
LEASE: BAKER
GEOLOGIST:
CHESTER
335
STATE: KANSAS
CLOCK: 12

PSI
PSI
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E - ACTUAL
MIN
MIN
MIN
MIN

DOWN

FLOW PRESSURE	FINAL MIN	SHUT-IN PRESSURE
512	0	635
512	3	638
625	6	642
557	9	646
577	12	650
587	15	654
595	18	659
603	21	764
609	24	768
615	27	772
623	30	676
628	33	680
635	36	684
	39	688
	42	692
	45	696
	48	700
	51	704
	54	708
	57	712
	60	716
	63	720
	66	724
	69	728
	72	732
	75	736
	78	740
	81	744
	84	747