

6-33-31W

CABOT OIL AND GAS CORPORATION

LEASE : MASSONI

WELL NO. : 5-6

TEST NO. : 1

MASSONI  
LEASE NAME

5-6  
WELL NO.

1  
TEST NO.

4380.4 - 4401.0  
TESTED INTERVAL

CABOT OIL AND GAS CORPORATION  
LEASE OWNER/COMPANY NAME

CONFIDENTIAL

TYPE & SIZE MEASURING DEVICE: _____				POSITIVE CHOKE	TICKET NO: 67730700
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
05-15-94					
1300					CALLED OUT, REQUESTED AT 1500 HOURS
1430					ON LOCATION, RIG TRIPPING OUT OF THE HOLE
1543					STARTED HT-500 TEMP GAUGE
1552					STARTED BT RECORDER # 7351
1557					STARTED BT RECORDER # 7352
1610					OUT OF HOLE WITH COLLARS
1625					STARTED PICKING UP TOOL
1650					TOOL MADE UP IN TABLE
1655					RIG TRIPPED IN HOLE
1828					TOOL ON BOTTOM- WT. 104,000# 74,000# DOWN
1831	BH				TOOL OPENED WITH INSTANT BLOW OFF TOP OF BUCKET
1839	BH	9.5 OZ			BLOW OFF BOTTOM OF BUCKET OF WATER
1901	BH	15 OZ			CLOSED TOOL - NO GAS TO THE SURFACE
2001	BH				OPENED TOOL WITH INSTANT BLOW OFF BOTTOM OF BUCKET
2011	BH	21 OZ			MAXIMUM PRESSURE 21 OZ., STARTED DECREASING
2031	BH	18.5 OZ			PRESSURE DECREASING
2103	BH	15 OZ			CLOSED TOOL, NO GAS TO THE SURFACE
2303					OPENED BYPASS, PULLED OFF BOTTOM, 126,000#
2313					TRIPPED OUT OF HOLE - 118,000#
05-16-94					
0120					TOOL AT TABLE
0200					READ CHARTS AND LOADED OUT

RELEASED

JUL 26 1995

FROM CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

EQUIPMENT & HOLE DATA

FORMATION TESTED: LANSING  
 NET PAY (ft): \_\_\_\_\_  
 GROSS TESTED FOOTAGE: 20.6 PACKER TO T.D.  
 ALL DEPTHS MEASURED FROM: KELLY BUSHING  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE DR CASING SIZE (in): 7.875  
 ELEVATION (ft): 2788.0 KELLY BUSHING  
 TOTAL DEPTH (ft): 4401.0  
 PACKER DEPTH(S) (ft): 4375. 4380 **RELEASED**  
 FINAL SURFACE CHOKE (in): \_\_\_\_\_  
 BOTTOM HOLE CHOKE (in): 0.750 **JUL 26 1995**  
 MUD WEIGHT (lb/gal): 9.10  
 MUD VISCOSITY (sec): 45 **FROM CONFIDENTIAL**  
 ESTIMATED HOLE TEMP. (°F): 128  
 ACTUAL HOLE TEMP. (°F): 100 @ 4396.4 ft

TICKET NUMBER: 67730700

DATE: 05-15-94 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP: LIBERAL

TESTER: L.D. GRANT  
J ARMSTRONG/R TAYLOR

WITNESS: CARL COUYN

DRILLING CONTRACTOR: H-40 DRILLING COMPANY #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>PIT SAMPLE</u>	<u>0.550 @ 70 °F</u>	<u>7113 ppm</u>
<u>MIDDLE</u>	<u>0.360 @ 70 °F</u>	<u>10164 ppm</u>
<u>BOTTOM</u>	<u>0.100 @ 70 °F</u>	<u>48778 ppm</u>
<u>SEE REMARKS SECTION</u>	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Psig AT SURFACE: 100.0  
 cu.ft. OF GAS: 0.037  
 cc OF OIL: 2100.0  
 cc OF WATER: \_\_\_\_\_  
 cc OF MUD: \_\_\_\_\_  
 TOTAL LIQUID cc: 2100.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 40.3 @ 60 °F  
 GAS/OIL RATIO (cu.ft. per bbl): \_\_\_\_\_  
 GAS GRAVITY: \_\_\_\_\_

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

30 FEET OF CLEAN OIL  
 120 FEET OF GAS CUT DRILLING MUD AND OIL  
 60 FEET OF GAS CUT WATER AND MUD SPOT OIL  
 210 FEET TOTAL RECOVERY

**KCC**  
**JUN 30**  
**CONFIDENTIAL**

MEASURED FROM TESTER VALUE

REMARKS :

TOP RECOVERY 39.8 GRAVITY OIL AT 60 DEG. F., MIDDLE RECOVERY 40.8 GRAVITY OIL AT 60 DEG. F.

CHARTS INDICATE A MECHANICALLY SUCCESSFUL TEST.  
CHARTS INDICATE LOW PRODUCTIVITY WITH SOME WELLBORE DAMAGE.

CABOT OIL & GAS CORPORATION

LEASE : MASSONI

WELL NO. : 5-6

TEST NO. : 2

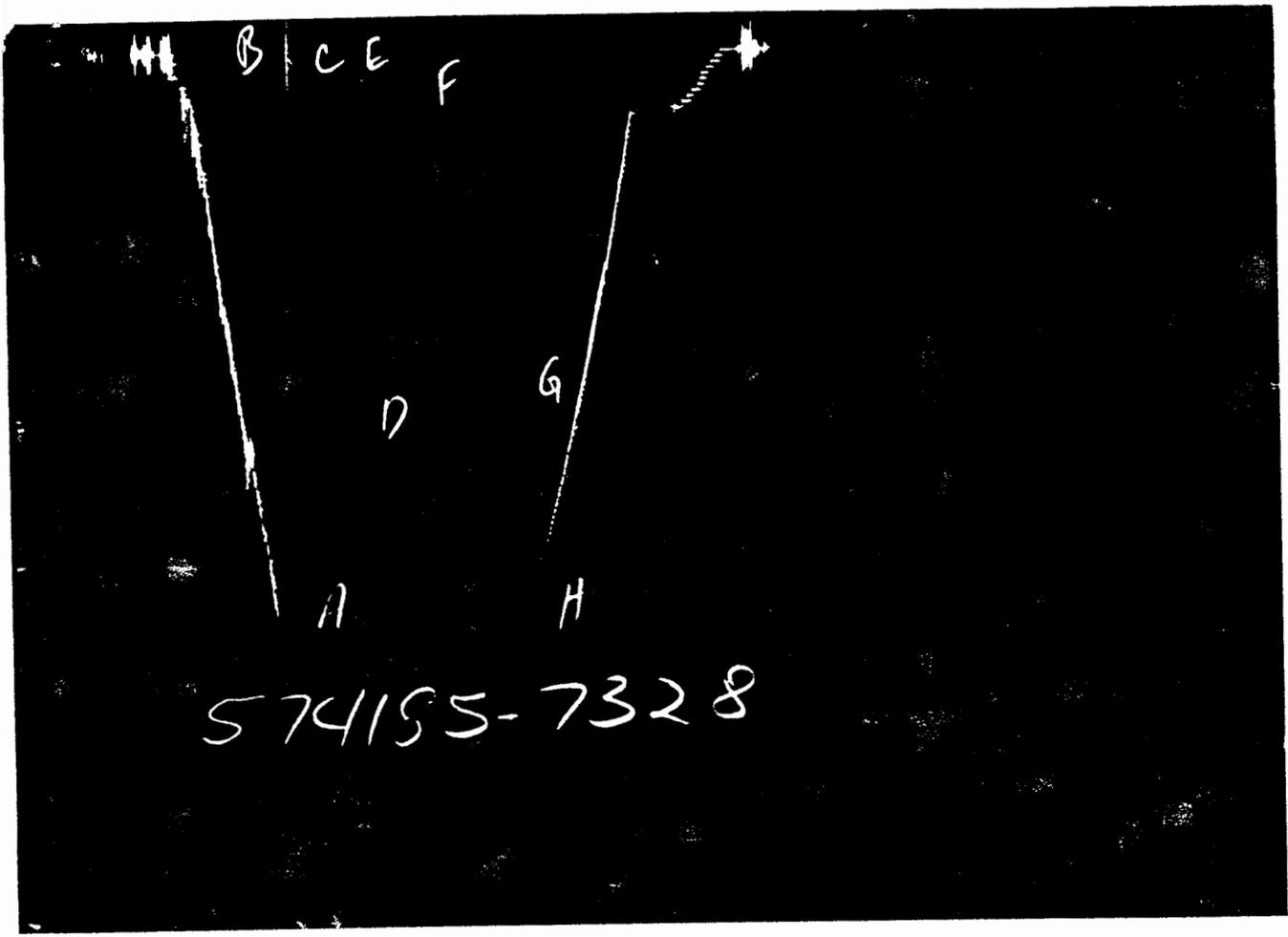
MASSONI  
LEASE NAME

5-6  
WELL NO.

2  
TEST NO.

5940.1 - 5949.0  
TESTED INTERVAL

CABOT OIL & GAS CORPORATION  
LEASE OWNER/COMPANY NAME



GAUGE NO: 7328 DEPTH: 5915.4 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2934	2781.3			
B	INITIAL FIRST FLOW	13	27.4			
C	FINAL FIRST FLOW	131	132.7	30.0	30.3	F
C	INITIAL FIRST CLOSED-IN	131	132.7			
D	FINAL FIRST CLOSED-IN	1778	1787.3	60.0	58.8	C
E	INITIAL SECOND FLOW	126	154.8			
F	FINAL SECOND FLOW	223	233.0	64.0	64.9	F
F	INITIAL SECOND CLOSED-IN	223	233.0			
G	FINAL SECOND CLOSED-IN	1778	1794.3	120.0	120.6	C
H	FINAL HYDROSTATIC	2882	2739.2			

CONFIDENTIAL

ORIGINAL

NO

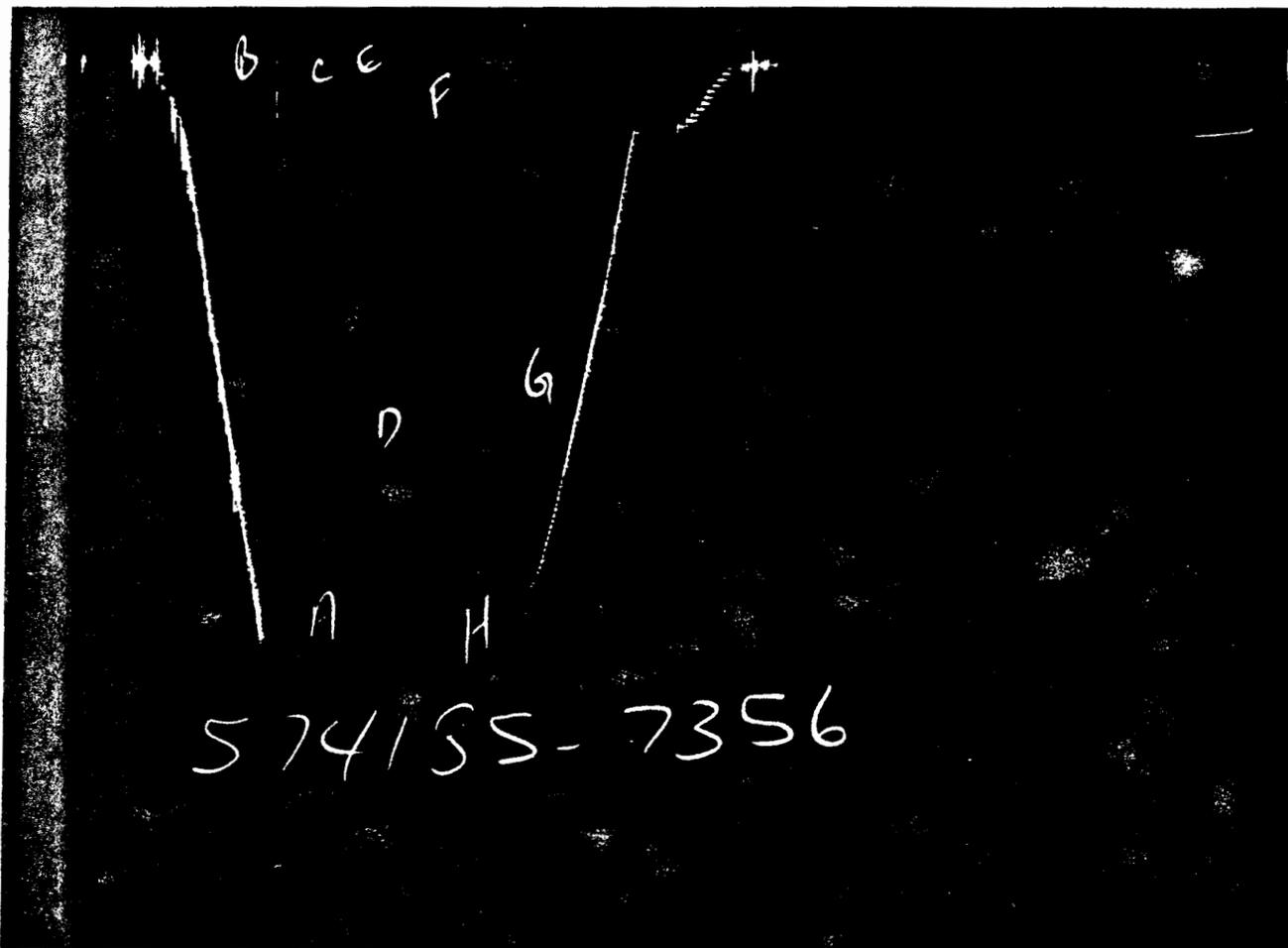
RELEASED

JUN 30

JUL 26 1995

CONFIDENTIAL

FROM CONFIDENTIAL



GAUGE NO: 7356 DEPTH: 5946.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2912	2798.6			
B	INITIAL FIRST FLOW	26	39.3			
C	FINAL FIRST FLOW	132	133.5	30.0	30.3	F
C	INITIAL FIRST CLOSED-IN	132	133.5			
D	FINAL FIRST CLOSED-IN	1796	1797.2	60.0	58.8	C
E	INITIAL SECOND FLOW	132	166.3			
F	FINAL SECOND FLOW	251	246.3	64.0	64.9	F
F	INITIAL SECOND CLOSED-IN	251	246.3			
G	FINAL SECOND CLOSED-IN	1796	1806.2	120.0	120.6	C
H	FINAL HYDROSTATIC	2833	2757.4			

CONFIDENTIAL

ORIGINAL

# CONFIDENTIAL ORIGINAL

TYPE & SIZE MEASURING DEVICE : <u>6" POSITIVE CHOKE NIPPLE</u>					TICKET NO: 57418500
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
05-20-94					
1200					CALLED OUT
1630					ON LOCATION; RIG PULLING PIPE
1740					PIPE OUT OF THE HOLE
1750					PICKED UP TOOLS
1815					TOOLS MADE UP
1830					STARTED IN HOLE WITH TOOLS
2049					ON BOTTOM; RIGGED UP
2054	B.H.				OPENED TOOL WITH WEAK BLOW ON TOP OF WATER IN THE BUCKET
2100	B.H.				MEDIUM BLOW ON BOTTOM OF BUCKET
2104	B.H.				STRONG BLOW ON BOTTOM OF BUCKET
2114	B.H.				STRONG BLOW ON BOTTOM OF BUCKET
2124	B.H.				CLOSED TOOL WITH STRONG BLOW ON BOTTOM OF BUCKET (NO GAS AT SURFACE)
2224	B.H.				OPENED TOOL WITH MEDIUM BLOW ON BOTTOM OF BUCKET
2234	B.H.				STRONG BLOW ON BOTTOM OF BUCKET
2244	B.H.	3.5			STRONG BLOW ON BOTTOM OF BUCKET
2254	B.H.	4.0			GAUGING PRESSURE THRU BUBBLE HOSE
2304	B.H.	4.0			
2314	B.H.	4.0			GAS TO THE SURFACE
2324	B.H.	5.0			GAS AT SURFACE
2328	B.H.				CLOSED TOOL
05-21-94					
0128					STARTED OUT OF THE HOLE
0345					HIT RECOVERY
0545					TOOLS IN TABLE
					RCC
					JUN 30
					CONFIDENTIAL
					RELEASED
					JUL 26 1995
					FROM CONFIDENTIAL

## EQUIPMENT & HOLE DATA

FORMATION TESTED: ST. LOUIS  
 NET PAY (ft): 6.0  
 GROSS TESTED FOOTAGE: 8.9 PACKER TO T.D.  
 ALL DEPTHS MEASURED FROM: K.B.  
 CASING PERFS. (ft): \_\_\_\_\_  
 HOLE OR CASING SIZE (in): 7.875  
 ELEVATION (ft): UNKNOWN  
 TOTAL DEPTH (ft): 5949.0  
 PACKER DEPTH(S) (ft): 5934, 5940  
 FINAL SURFACE CHOKE (in): \_\_\_\_\_  
 BOTTOM HOLE CHOKE (in): 0.750  
 MUD WEIGHT (lb/gal): 9.00  
 MUD VISCOSITY (sec): 55  
 ESTIMATED HOLE TEMP. (°F): \_\_\_\_\_  
 ACTUAL HOLE TEMP. (°F): 133 @ 5919.5 ft

TICKET NUMBER: 57418500  
 DATE: 05-20-94 TEST NO: 2  
 TYPE DST: OPEN HOLE  
 FIELD CAMP: PAMPA  
 TESTER: TED SCOTT  
 WITNESS: JIM TULL  
 DRILLING CONTRACTOR: H-40 DRILLING COMPANY

## FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>SAMPLER</u>	<u>0.065 @ 78 °F</u>	<u>74802 ppm</u>
<u>TOP RECOVERY (OIL)</u>	_____ °F	_____ ppm
<u>BOTTOM RECOVERY</u>	<u>0.081 @ 78 °F</u>	<u>64116 ppm</u>
<u>PIT</u>	<u>3.000 @ 78 °F</u>	<u>1603 ppm</u>
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

## SAMPLER DATA

Psig AT SURFACE: 185.0  
 cu.ft. OF GAS: 0.440  
 cc OF OIL: 800.0  
 cc OF WATER: 600.0  
 cc OF MUD: \_\_\_\_\_  
 TOTAL LIQUID cc: 1400.0

## HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 27.4 @ 60 °F  
 GAS/OIL RATIO (cu.ft. per bbl): 87  
 GAS GRAVITY: 0.907

## CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

## RECOVERED :

472 FT. OF OIL  
 122 FT. OF OIL/MUD  
 131 FT. OF WATER

**RELEASED**

JUL 26 1995

MEASURED FROM TESTER VALVE

## REMARKS :

FROM CONFIDENTIAL

NOTE: OIL IN SAMPLER HAD API GRAVITY OF 26.8

ERRATIC NATURE OF SECOND FLOW PERIOD AS RECORDED ON THE CHARTS IS A RESULT OF GAS BEING PRODUCED ALONG WITH THE LIQUID THEREBY INTERMITTENTLY WORKING ITS WAY UP THE FLUID COLUMN.