



HALLIBURTON SERVICES

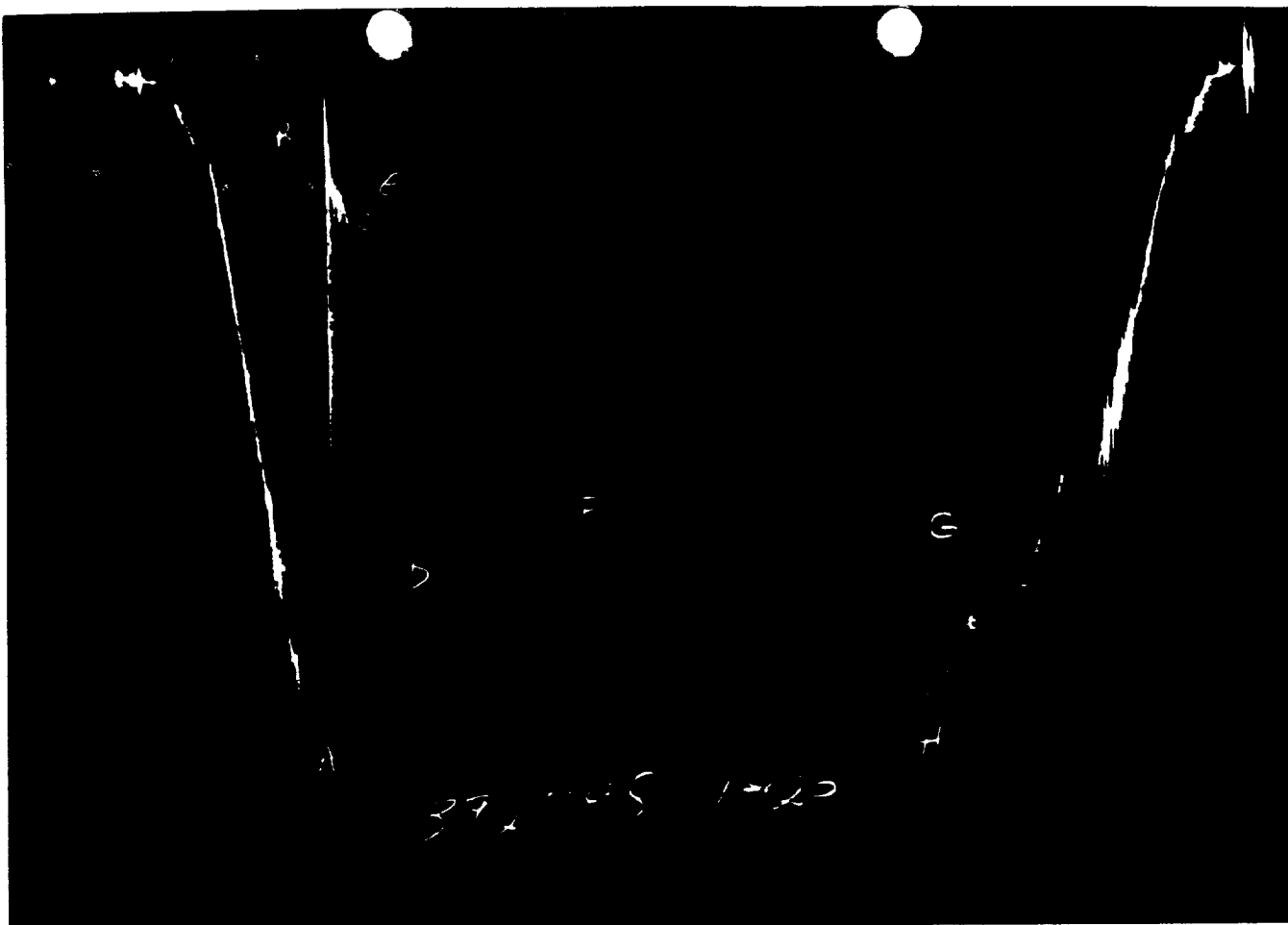
TICKET NO. 39279800

09-FEB-87

ARTESIA

FORMATION TESTING SERVICE REPORT

MIDDLEBROOK	3-1	4	10074.0 - 10130.0	BELL, FOY AND MIDDLEBROOK
LEASE NAME	WELL NO.	TEST NO.	TESTED INTERVAL	LEASE OWNER/COMPANY NAME
LEGAL LOCATION SEC. - TWP. - RANG.	3-10S-30E	FIELD AREA	CRTD	COUNTY
				CHAVES
				STATE NEW MEXICO
				IC



GAUGE NO: 1920 DEPTH: 10053.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	5314	5332.7			
B	INITIAL FIRST FLOW	830	112.0	30.0	29.7	F
C	FINAL FIRST FLOW	1230	1303.8			
C	INITIAL FIRST CLOSED-IN	1230	1303.8	60.0	60.3	C
D	FINAL FIRST CLOSED-IN	3910	3916.2			
E	INITIAL SECOND FLOW	1251	1231.7	210.0	210.5	F
F	FINAL SECOND FLOW	3910	3912.6			
F	INITIAL SECOND CLOSED-IN	3910	3912.6	407.0	406.5	C
G	FINAL SECOND CLOSED-IN	3910	3915.3			
H	FINAL HYDROSTATIC	5231	5216.7			

RECEIVED

MAY 13 1998

OFFICE
FEDERAL BUREAU OF INVESTIGATION

GAUGE NO: 1919 DEPTH: 10127.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	5347	5393.6			
B	INITIAL FIRST FLOW	818	777.6			
C	FINAL FIRST FLOW	1358	1431.5	30.0	29.7	F
C	INITIAL FIRST CLOSED-IN	1358	1431.5			
D	FINAL FIRST CLOSED-IN	3956	3958.7	60.0	60.3	C
E	INITIAL SECOND FLOW	1313	1256.6			
F	FINAL SECOND FLOW	3956	3955.4	210.0	210.5	F
F	INITIAL SECOND CLOSED-IN	3956	3955.4			
G	FINAL SECOND CLOSED-IN	3956	3960.1	407.0	406.5	C
H	FINAL HYDROSTATIC	5259	5276.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: DEVONIAN

NET PAY (ft): 10.0

GROSS TESTED FOOTAGE: 56.0

ALL DEPTHS MEASURED FROM: K.B. (19.50')

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 4094.0 GROUND LEVEL

TOTAL DEPTH (ft): 10130.0

PACKER DEPTH(S) (ft): 10068. 10074

FINAL SURFACE CHOKE (in): _____

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.60

MUD VISCOSITY (sec): 54

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): 183 @ 10126.0± ft

TICKET NUMBER: 39279800

DATE: 2-4-87 TEST NO: 4

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: _____

ARTESIA

TESTER: T. FLETCHER

WITNESS: R. BELL

DRILLING CONTRACTOR: _____

TIMBER SHARP #52

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE

RESISTIVITY

CHLORIDES

MUD PIT 0.091 @ 60 °F 55000 ppm

TOP RECOVERY 0.109 @ 60 °F 45000 ppm

MIDDLE RECOVERY 0.130 @ 60 °F 35000 ppm

SAMPLER 0.142 @ 60 °F 32000 ppm

_____ @ _____ °F _____ ppm

_____ @ _____ °F _____ ppm

SAMPLER DATA

P_{sig} AT SURFACE: 18.0

cu.ft. OF GAS: 0.225

cc OF OIL: _____

cc OF WATER: 200.0

cc OF MUD: _____

TOTAL LIQUID cc: 200.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED :

744 FEET OF MUD CUT FORMATION WATER

8005 FEET OF FORMATION WATER

MEASURED FROM
TESTER VALVE

REMARKS :

NO GAS TO SURFACE

SLID 15' TO BOTTOM - CHARTS INDICATE PARTIAL PLUGGING OF THE
ANCHOR PIPE PERFORATIONS DURING THE FIRST FLOW PERIOD.

RECEIVED

MAY 13 1988

OOD
HOBBS OFFICE

[illegible]

RECEIVED
MAY 13 1988
ODD
MOBBS OFFICE

TICKET

CLOCK

REF

MIND

B 1
C 2C 1
2
3
4
5
6
7
8
9
10
11
D 12

SECOND FLOW

E	1	0.0	1231.7	
	2	10.0	1500.2	268.4
	3	20.0	1754.9	254.8
	4	30.0	1999.0	244.1
	5	40.0	2231.6	232.6
	6	50.0	2446.0	214.4
	7	60.0	2645.6	199.6
	8	70.0	2825.6	180.0
	9	80.0	2996.9	171.3
	10	90.0	3148.7	151.8
	11	100.0	3287.9	139.2
	12	110.0	3412.6	124.7
	13	120.0	3524.0	111.5
	14	130.0	3620.0	95.9
	15	140.0	3700.6	80.6
	16	150.0	3771.5	71.0
	17	160.0	3826.1	54.6
	18	170.0	3863.9	37.8
	19	180.0	3891.2	27.3
	20	190.0	3907.2	16.0
	21	200.0	3911.8	4.6
F	22	210.5	3912.6	0.8

SECOND CLOSED-IN

F	1	0.0	3912.6			
G	2	406.5	3915.3	2.7	151.0	0.202

REMARKS:

RECEIVED
MAY 13 1988
SOS
MOBILITY OFFICE

TICKET NO. 134175000

INVEST NO. 1519

CLOCK NO. 1000

REF MINUTES

B 1 0.0 777.5
C 2 21.7 3421.5

FIRST CLOSED-IN

C 1 0.0 1431.2
2 1.0 3053.2
3 2.0 3430.2
4 3.0 3557.7
5 4.0 3580.7
6 5.0 3595.2
7 10.0 3451.2
8 20.0 3450.7
9 30.0 3450.2
10 40.0 3450.2
11 50.0 3450.2
D 12 60.0 3450.2

SECOND FLOW

E 1 0.0 1256.6
2 10.0 1535.2 278.6
3 20.0 1798.5 263.3
4 30.0 2044.7 246.1
5 40.0 2278.7 234.0
6 50.0 2498.6 220.0
7 60.0 2690.3 191.7
8 70.0 2870.6 180.3
9 80.0 3040.8 170.2
10 90.0 3189.8 149.0
11 100.0 3326.5 136.8
12 110.0 3451.9 125.4
13 120.0 3555.6 113.6
14 130.0 3650.7 95.2
15 140.0 3746.6 85.8
16 150.0 3812.6 66.0
17 160.0 3865.8 53.1
18 170.0 3906.0 40.2
19 180.0 3933.6 27.6
20 190.0 3948.0 14.5
21 200.0 3952.7 4.7
F 22 210.5 3955.4 2.7

SECOND CLOSED-IN

F 1 0.0 3955.4
G 2 406.5 3960.1 4.7 151.0 0.202

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	8924.3	
3		DRILL COLLARS.....	6.250	2.250	969.2	
50		IMPACT REVERSING SUB.....	6.500	2.620	1.0	9893.0
3		DRILL COLLARS.....	6.250	2.250	145.0	
5		CROSSOVER.....	5.750	2.500	1.0	
13		DUAL CIP SAMPLER.....	5.000	0.750	6.8	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	10051.0
80		AP RUNNING CASE.....	5.000	2.250	4.1	10053.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	7.000	1.530	5.8	10068.0
70		OPEN HOLE PACKER.....	7.000	1.530	5.8	10074.0
5		CROSSOVER.....	5.750	2.500	1.0	
3		DRILL COLLARS.....	6.250	2.250	30.2	
5		CROSSOVER.....	5.750	2.500	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	2.870	18.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	10127.0
TOTAL DEPTH					10130.0	

EQUIPMENT DATA