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JUN 10 1985
O. C. D.
ARTESIA, OFFICE

HALLIBURTON SERVICES

TICKET NO. 22631600
15-APR-85
ARTESIA

FORMATION TESTING SERVICE REPORT

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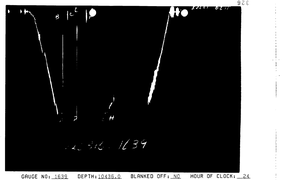
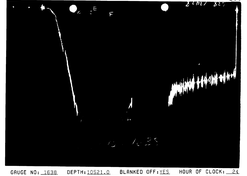


GAUGE NO:1638 DEPTH:10435.0 BLANKED OFF:NO HOUR OF CLOCK:24

ID	DESCRIPTION	PRESSURE MINUTES	PRESSURE PSI	TIME MINUTES	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	4814	4814.4			
B	INITIAL FIRST FLOW	66	90.5	30.0	29.6	F
C	FINAL FIRST FLOW	132	145.2			
C	INITIAL FIRST CLOSED-IN	132	145.2	60.0	59.7	C
D	FINAL FIRST CLOSED-IN	4792	4805.0			
E	INITIAL SECOND FLOW	88	116.2	60.0	60.8	F
F	FINAL SECOND FLOW	176	214.3			
F	INITIAL SECOND CLOSED-IN	176	214.3	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	4856	4940.0			
H	FINAL HYDROSTATIC	4747	4797.6			



GAUGE NO:1638 DEPTH:10521.0 BLANKED OFF:YES HOUR OF CLOCK:24

ID	DESCRIPTION	PRESSURE MINUTES	PRESSURE PSI	TIME MINUTES	TIME CALCULATED	TYPE
A	INITIAL HYDROSTATIC	4858	4857.5			
B	INITIAL FIRST FLOW	109	128.1	30.0	29.6	F
C	FINAL FIRST FLOW	174	167.5			
C	INITIAL FIRST CLOSED-IN	174	167.5	60.0	59.7	C
D	FINAL FIRST CLOSED-IN	4879	4903.7			
E	INITIAL SECOND FLOW	131	138.1	60.0	60.8	F
F	FINAL SECOND FLOW	219	233.5			
F	INITIAL SECOND CLOSED-IN	219	233.5	120.0	120.0	C
G	FINAL SECOND CLOSED-IN	4921	4985.3			
H	FINAL HYDROSTATIC	4855	4846.1			

EQUIPMENT & HOLE DATA

FORMATION TESTED: SIMSAN
NET PAY (FT): 9.0
GROSS TESTED FOOTAGE: 68.0
ALL BLOW PRESSURES READ FROM: KELLY BUSHING
CASING DEPTH: (FT): 1000.0
HOLE OR CASING SIZE (IN): 7.875
ELEVATION (FT): 3580.0
TOTAL DEPTH (FT): 10525.0
PACKER DEPTH(S) (FT): 10451, 10457
FINAL SURFACE CHOKE (IN): 0.25000
BOTTOM HOLE CHOKE (IN): 0.750
MUD WEIGHT (LB/GAL): 9.20
MUD VISCOSITY (SEC): 29.0
ESTIMATED HOLE TEMP. (°F): 148
ACTUAL HOLE TEMP. (°F): 148 @ 10521.0 FT

TICKET NUMBER: 22631600
DATE: 4-15-85 TEST NO: 2
TYPE OST: OPEN HOLE
HALLIBURTON COMP: ARTESIA
TESTER: STAN MC KEE
WITNESS: MERLE GOODGAME
DRILLING CONTRACTOR: HONDO #12

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	0.800 @ 68.0°F	34000 PPM
MIDDLE RECOVERY	0.670 @ 83.0°F	31000 PPM
BOTTOM RECOVERY	0.500 @ 68.0°F	34000 PPM
	___ @ ___°F	___ PPM
	___ @ ___°F	___ PPM
	___ @ ___°F	___ PPM

SAMPLER DATA

PRESS. AT SURFACE: 2100.0
CU.FT. OF GAS: 17.268
CC OF OIL: 600.0
CC OF WATER: 0
CC OF MUD: 0
TOTAL LIQUID CCS: 600.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 44.5 @ 60°F
GRAVITY, METER (API): per batch
GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

2100 FEET OF GAS CUT SALTWATER
442 FEET OF OIL (GAS AND WATER CUT)

SAMPLER DATA

REMARKS:

DROPPED BAR AND REVERSED OUT AT 9337'. SAMPLER - 45.7 API AT 60 DEGREES F. TOP RECOVERY - 44.5 API AT 60 DEGREES.

IT WAS REPORTED THAT A TOTAL OF 2542' OF RECOVERY FLUID WAS REVERSED OUT. THIS DOES NOT AGREE WITH THE FINAL FLOW PRESSURE (BOTTOM GAUGE #1639) OF 235.5 PSI. IT IS BELIEVED THAT AN ERROR POSSIBLY EXISTS IN THE MANNER IN WHICH THE REVERSED RECOVERY VOLUME WAS CALCULATED. THE REPORTED REVERSED RECOVERY VOLUME OF 2100' SALTWATER IS BELIEVED TO BE HIGHLY QUESTIONABLE.

TYPE & SIZE MEASURING DEVICE: 4" PORTLAND CHOKE — TICKET NO: 22631600

TIME	CHOKE SIZE	PRESSURE PSI	SURFACE PRESSURE MCF	GAS RATE MCF	% LIQUID BBLS BPD	REMARKS
						REMARKS CONTINUED:
						THIS IS SUPPORTED BY THE
						SAMPLER RECOVERY.
4-14-85						
2100						ON LOCATION
4-15-85						
0215						PICKED UP TOOLS
0330						STARTED IN HOLE
0700		3				OPENED TOOL WITH GOOD BLOW
						BEGIN 10" IN BUCKET
0725		3				INCREASING SURFACE PSI
0730	.25	10				SAME - OPENED IN 1/4" CHOKE
0735	.25	10				SAME
0740	.25	20				SAME
0745	.25	20				SAME
0750	.25	29				CLOSED TOOL
0752						GAS TO SURFACE
0810	.25	3				OPENED TOOL WITH GAS TO SURFACE
0820	.25	23	55+			INCREASING PSI - WEFTMATED
						RATES
0810	.25	29	64+			SAME
0820	.25	32	63+			SAME
0830	.25	35	74+			SAME
0840	.25	38	78+			SAME
0850	.25	41	82+			CLOSED TOOL
1000						SPENT BYPASS AND PULLED OFF
						BOTTOM
1245						PULLED 19 STANDS - DROPPED BAR
						AND REVERSED OUT
						PULLED OUT OF HOLE

TICKET NO: 22631600 — HALLIBURTON — GAUGE NO: 1639 — DEPTH: 10435.0
CLOCK NO: 13738 HOUR: 24

	REF	MINUTES	PRESSURE	ΔP	ΔP/ΔT	ΔP/ΔT SQRT
			FIRST FLOW			
B	1	0.0	90.5			
	2	2.0	105.7	7.3		
	3	4.0	114.9	9.4		
	4	6.0	96.5	5.0		
	5	8.0	101.6	5.1		
	6	10.0	105.7	5.2		
	7	12.0	113.9	5.4		
	8	14.0	122.1	5.6		
	9	16.0	130.7	5.8		
	10	18.0	139.0	5.5		
	11	20.0	147.2	5.6		
	12	22.0	155.4	5.7		
	13	24.0	163.5	5.7		
	14	26.0	171.7	5.8		
	15	28.0	180.0	5.8		
C	16	29.6	185.2	5.0		
			SECOND FLOW			
C	1	0.0	145.2			
	2	2.0	155.6	167.7	0.0	1.498
	3	4.0	165.8	185.8	0.0	1.554
	4	6.0	167.9	550.7	2.8	1.031
	5	8.0	172.1	587.5	3.0	1.060
	6	10.0	176.3	665.1	3.4	0.939
	7	12.0	182.6	752.7	3.9	0.774
	8	14.0	188.8	827.9	4.3	0.704
	9	16.0	195.0	896.3	4.6	0.658
	10	18.0	199.2	958.3	4.8	0.632
	11	20.0	203.4	1014.9	5.0	0.613
	12	22.0	207.6	1067.3	5.2	0.597
	13	24.0	211.8	1116.0	5.3	0.583
	14	26.0	216.0	1161.2	5.4	0.573
	15	28.0	220.2	1203.5	5.5	0.564
	16	30.0	224.4	1243.1	5.6	0.556
	17	32.0	228.6	1280.3	5.7	0.549
	18	34.0	232.8	1315.4	5.8	0.543
	19	36.0	237.0	1348.7	5.9	0.538
	20	38.0	241.2	1380.3	6.0	0.533
	21	40.0	245.4	1410.4	6.1	0.529
	22	42.0	249.6	1439.0	6.2	0.525
	23	44.0	253.8	1466.3	6.3	0.521
	24	46.0	258.0	1492.3	6.4	0.518
	25	48.0	262.2	1517.2	6.5	0.515
	26	50.0	266.4	1541.0	6.6	0.512
	27	52.0	270.6	1563.8	6.7	0.510
	28	54.0	274.8	1585.7	6.8	0.507
	29	56.0	279.0	1606.8	6.9	0.505
	30	58.0	283.2	1627.1	7.0	0.503
	31	60.0	287.4	1646.7	7.1	0.501
D	32	61.8	291.0	1664.2	7.2	0.499
			SECOND FLOW			
E	1	0.0	116.2			

REMARKS:

TICKET NO: 22631600 — HALLIBURTON — GAUGE NO: 1638 — DEPTH: 10521.0
CLOCK NO: 13420 HOUR: 24

	REF	MINUTES	PRESSURE	ΔP	ΔP/ΔT	ΔP/ΔT SQRT
			FIRST FLOW			
B	1	0.0	128.1			
	2	2.0	119.9	-0.2		
	3	4.0	119.7	-0.0		
	4	6.0	119.7	0.0		
	5	8.0	125.3	0.4		
	6	10.0	131.4	0.6		
	7	12.0	137.8	0.1		
	8	14.0	144.2	0.6		
	9	16.0	150.7	0.5		
	10	18.0	148.4	0.5		
	11	20.0	154.9	0.5		
	12	22.0	161.4	0.5		
	13	24.0	165.8	0.1		
	14	26.0	172.3	0.5		
	15	28.0	178.8	0.5		
C	16	29.6	167.5	-0.1		
			FIRST CLOSED-IN			
C	1	0.0	167.5			
	2	2.0	185.1	400.5	1.0	1.491
	3	4.0	198.1	548.5	1.4	1.254
	4	6.0	211.1	634.1	2.7	1.037
	5	8.0	224.1	695.1	3.0	0.911
	6	10.0	237.1	745.1	3.3	0.828
	7	12.0	249.8	788.7	3.6	0.767
	8	14.0	262.6	827.5	3.9	0.717
	9	16.0	275.3	862.1	4.2	0.676
	10	18.0	287.9	893.3	4.4	0.641
	11	20.0	300.6	921.5	4.7	0.610
	12	22.0	313.3	947.1	4.9	0.583
	13	24.0	325.9	970.4	5.1	0.560
	14	26.0	338.6	991.7	5.3	0.539
	15	28.0	351.3	1011.3	5.5	0.519
	16	30.0	363.9	1029.4	5.7	0.502
	17	32.0	376.6	1046.2	5.9	0.486
	18	34.0	389.3	1061.8	6.1	0.472
	19	36.0	401.9	1076.3	6.3	0.459
	20	38.0	414.6	1089.8	6.5	0.447
	21	40.0	427.3	1102.4	6.7	0.436
	22	42.0	439.9	1114.2	6.9	0.426
	23	44.0	452.6	1125.2	7.1	0.416
	24	46.0	465.3	1135.5	7.3	0.407
	25	48.0	477.9	1145.2	7.5	0.398
	26	50.0	490.6	1154.3	7.7	0.390
	27	52.0	503.3	1162.8	7.9	0.382
	28	54.0	515.9	1170.8	8.1	0.375
	29	56.0	528.6	1178.3	8.3	0.368
	30	58.0	541.3	1185.4	8.5	0.362
	31	60.0	553.9	1192.0	8.7	0.356
D	32	61.8	565.5	1197.9	8.9	0.351
			SECOND FLOW			
E	1	0.0	138.1			

REMARKS:
THE GAUGE TO SLOWLY STEP-STEPPING DURING THE INITIAL FLOWING AND PRESSURE RAISING.

EQUIPMENT DATA

TICKET NO. 22631600

		O.D.	I.D.	LENGTH	DEPTH
1	DRILL PIPE	4.500	3.340	9740.0	
2	DRILL COLLARS	6.250	2.250	540.0	
3	JAMES REVERSING SUB	5.750	3.000	1.0	10300.0
4	DRILL COLLARS	6.250	2.250	125.0	
5	CROSSOVER	5.750	3.000	1.0	
6	DUAL CIP SAMPLER	5.000	0.750	7.0	
7	HYDROSPHINX TESTER	5.000	0.750	5.0	10434.0
8	AP RUNNING CASE	5.000	2.250	4.0	10436.0
9	JAR	5.000	1.750	5.0	
10	AP SAFETY JOINT	5.000	1.000	3.0	
11	OPEN HOLE PACKER	6.750	1.530	8.0	10451.0
12	OPEN HOLE PACKER	6.750	1.530	8.0	10457.0
13	ANCHOR PIPE SAFETY JOINT	5.750	1.500	5.0	
14	CROSSOVER	5.750	0.500	1.0	
15	DRILL COLLARS	6.250	2.250	90.0	
16	CROSSOVER	5.750	0.500	1.0	
17	PLUGGED JUNK BASKET	5.750	2.870	25.0	
18	BLANKED-OFF RUNNING CASE	5.750		4.0	10521.0
	TOTAL DEPTH				10525.0

EQUIPMENT DATA