

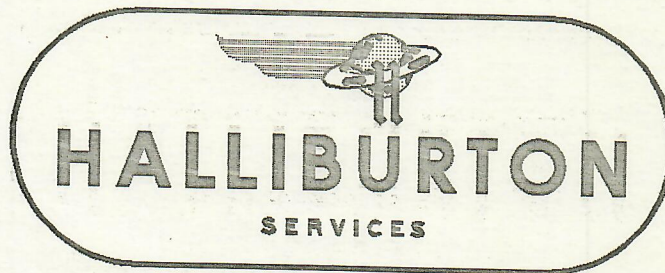
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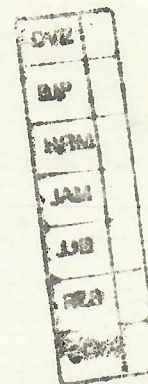
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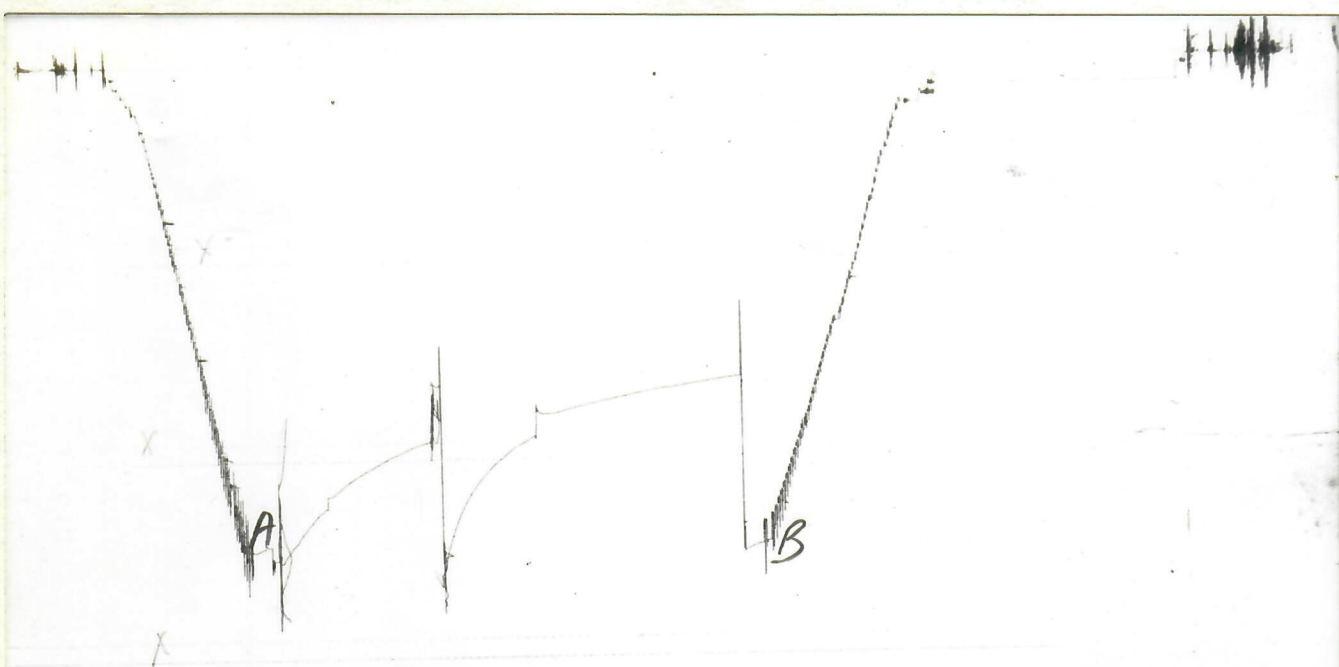


TICKET NO. 04845000
31-MAR-82



FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SEC. - TWP. - RNG.	4-24S-26W	FIELD AREA	WILDCAT	COUNTY	PROVERS	STATE	COLORADO	SM/IC
LEASE NAME WALKER	# 1-B	WELL NO. 1-B	TEST NO. 1-B	TESTED INTERVAL 5092.1 - 5112.1	LEASE OWNER/COMPANY NAME MARLIN OIL COMPANY			



374
DST #1-A,
5092-5112
5094-82
#048450

X Line is error

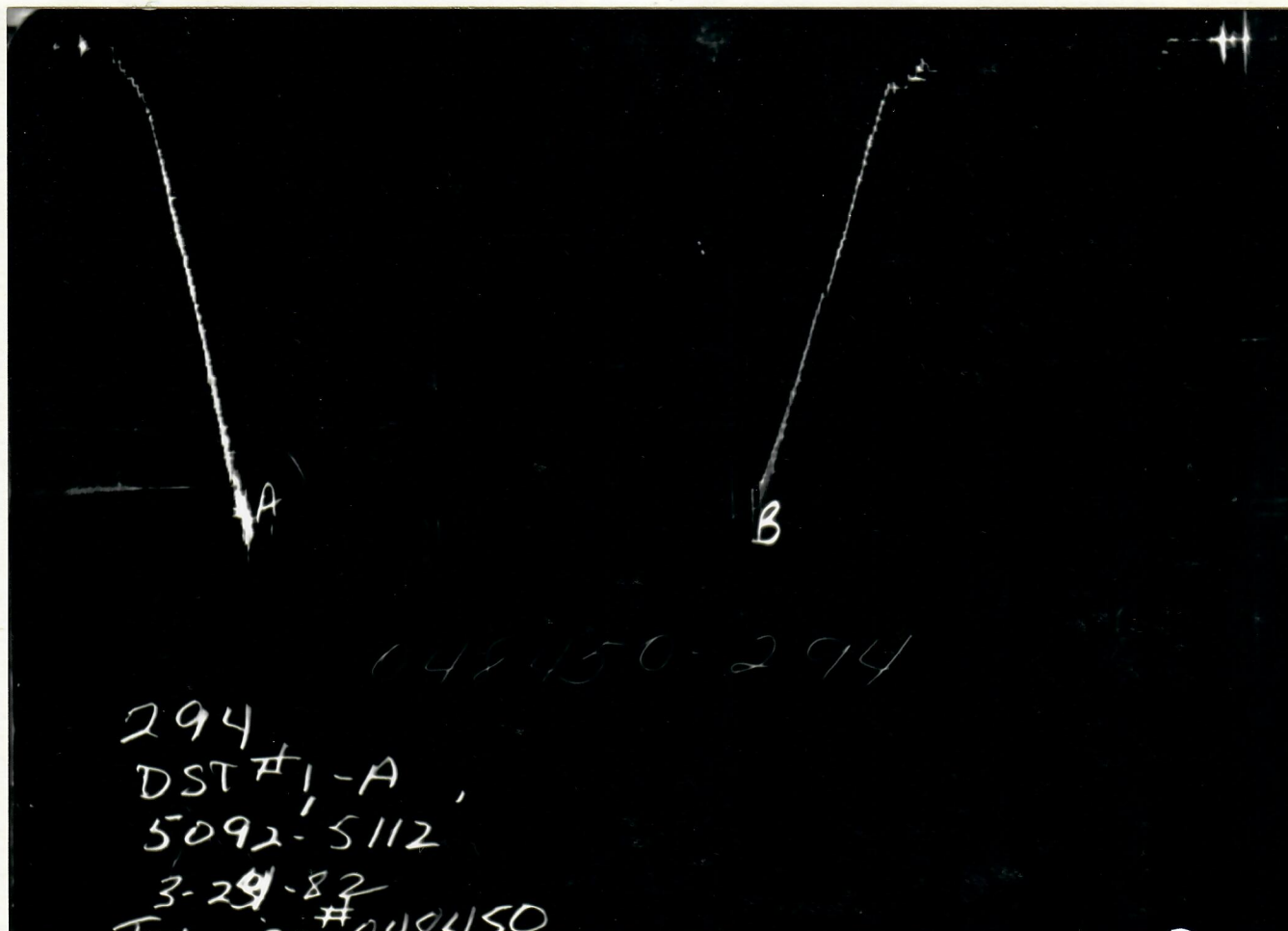
048450-374

GAUGE NO: 374

DEPTH: 5070.0

BLANKED OFF: NO

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2455.4			
B	FINAL HYDROSTATIC		2455.4			



GAUGE NO: 294

DEPTH: 5109.0

BLANKED OFF: YES

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2460.2			
B	FINAL HYDROSTATIC		2452.4			

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EQUIPMENT & HOLE DATA

FORMATION TESTED: KEYES
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 20.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 0
 TOTAL DEPTH (ft): 5112.0
 PACKER DEPTH(S) (ft): _____
 FINAL SURFACE CHOKE (in): 0.250
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.20
 MUD VISCOSITY (sec): 48
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 133 @ 5107.0 ft

TICKET NUMBER: 04845000

DATE: 3-24-82 TEST NO: 1-A

TYPE DST: OPEN HOLE

HALLIBURTON CAMP:
LAMAR

TESTER: G. D. MOORE

WITNESS: RICH BACON

DRILLING CONTRACTOR:
SNYDER DRILLING COMPANY

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: _____
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: _____
 TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

30 FEET OF MUD

MEASURED FROM
TESTER VALVE

REMARKS:
















MISRUN...TOOL PLUGGED WITH SHALE...HYDROSTATIC PRESSURES ARE THE ONLY RELIABLE READINGS AVAILABLE.

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TYPE & SIZE MEASURING DEVICE:

TICKET NO: 04845000

[illegible]

		O.D.	I.D.	LENGTH	DEPTH
1		DRILL PIPE.....	4.500	3.826	0.00
3		DRILL COLLARS.....	6.250	2.250	0.00
5		CROSSOVER.....	5.750	2.380	1.00
50		IMPACT REVERSING SUB.....	5.750	2.750	2.00
11		HANDLING SUB & CHOKE ASSEMBLY...	4.500	3.826	4.00
13		DUAL CIP SAMPLER.....	5.000	0.870	7.00
60		HYDROSPRING TESTER.....	5.000	0.750	5.00
80		AP RUNNING CASE.....	5.000	1.000	4.00
15		JAR.....	5.030	1.750	5.00
16		VR SAFETY JOINT.....	5.000	1.000	3.00
70		OPEN HOLE PACKER.....	6.750	1.530	6.00
70		OPEN HOLE PACKER.....	6.750	1.530	6.00
20		FLUSH JOINT ANCHOR.....	5.000	3.240	13.00
83		HT-500 TEMPERATURE CASE.....	5.000	0.000	1.50
81		BLANKED-OFF RUNNING CASE.....	5.000	2.240	4.00
TOTAL DEPTH					5112.00

EQUIPMENT DATA

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TEMPERATURE
RECORDER
CHART



10° each circle

EQUATIONS FOR DST LIQUID WELL ANALYSIS

Transmissibility	$\frac{kh}{\mu} = \frac{162.6 QB}{m}$	$\frac{\text{md-ft}}{\text{cp}}$
Indicated Flow Capacity	$kh = \frac{kh}{\mu} \mu$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Damage Ratio	$DR = .183 \frac{P^* - P_f}{m}$	—
Theoretical Potential w / Damage Removed	$Q_1 = Q DR$	BPD
Approx. Radius of Investigation	$r_i = 4.63 \sqrt{kt}$	ft

EQUATIONS FOR DST GAS WELL ANALYSIS

Indicated Flow Capacity	$kh = \frac{1637 Q_g T}{m}$	md-ft
Average Effective Permeability	$k = \frac{kh}{h}$	md
Skin Factor	$S = 1.151 \left[\frac{m(P^*) - m(P_f)}{m} - \text{LOG} \frac{kt}{\phi \mu c_t r_w^2} + 3.23 \right]$	—
Damage Ratio	$DR = \frac{m(P^*) - m(P_f)}{m(P^*) - m(P_f) - 0.87 mS}$	—
Indicated Flow Rate (Maximum)	$AOF_1 = \frac{Q_g m(P^*)}{m(P^*) - m(P_f)}$	MCFD
Indicated Flow Rate (Minimum)	$AOF_2 = Q_g \sqrt{\frac{m(P^*)}{m(P^*) - m(P_f)}}$	MCFD
Approx. Radius of Investigation	$r_i = 0.032 \sqrt{\frac{kt}{\phi \mu c_t}}$	ft

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