WELL ANALYSIS CORPORATION

JUL 28 2014

WATER INJECTION SURVEY

FILING NO.	COMPANY: E & B NATURAL RES. MGMT. CORP.	
	WELL: WNF-I 23	
	FIELD: WILMINGTON	
	COUNTY: LOS ANGELES	STATE: CALIFORNIA
	LOCATION: DISTRICT 1	OTHER SVC:
LR	API NUMBER: 0403722672 SEC: 19 TWN: 4S RNG: 13W	

PERMANENT DATUM: GROUND LEVEL ELEV.:

LOG MEASURED FROM K.B. 22' ABOVE PERM DATUM

-ELEVATIONS-
KB: Ft.
DF: Ft.
GL: Ft.

DRILLING MEASURED FROM

DATE LOG RAN	07-14-2014	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI		1700	
EFFECTIVE DEPTH	5500'	CASING PSI		0	
PICKUP DEPTH	5422'	INJECTION RATE		263 B/D	
BOT LOGGED INT	5422'	OBSERVED RATE		126 B/D	
TOP LOGGED INT	200'	R/A SOURCE		I-131W	
TYE OF INJECT	WATER	ACTIVITY		0.4 MCI	
FLUID IN WELL	WATER	HALF LIFE		8.08 DAYS	
FLUID LEVEL	SURFACE				
WELL STATUS	INJ.			PRODUCTION DATA	
MAX TEMPERATURE	125.31 F	OIL Gr.		OIL =	
AT DEPTH	5349.0'	GAS Gr.		GAS=	
TEMPERATURE SENS	1 F/DIV.	MPF		BHP =	
LOGGING SPEED	VARIOUS			WATER=	
RECORDED BY	A. GLINN				
WITNESSED BY	T. TYLER				
ENGINEER	T. ALVAREZ				
DEPTH CORRELATION	LINER TOP				

TOOL DIAGRAM

R/A EJECTOR AT 5.5"

COLLAR LOCATOR AT 7.5"

TEMPERATURE TOOL AT 9.5"

GAMMA DETECTOR AT 11.5"

Equipment Data

R/A Tracer	1.375"
Collar Locator	1.375"
Gamma Detector	1.375"
Temperature Tool	1.375"

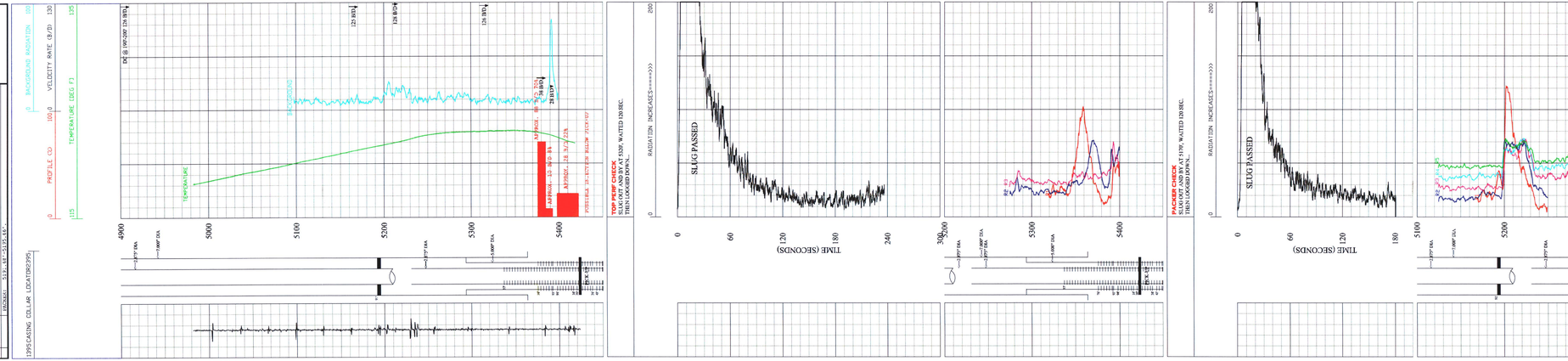
Remarks/Survey Results

TEMP. TOOL WAS ON AND OFF DURING THE JOB. ARE WELL SHUT IN? PLEASE CHECK.
PRESSURE TOOL WAS ON AT 5422' DURING THE JOB. DID YOU SHUT IN THE WELL?
MAXIMUM RADIUS: 30 INAVAILABLE
STAT. JR. - 30, LOCATION
STAT. JR. - 60, LOCATION
STAT. JR. - 90, 5.5" CASING SHOE
STAT. JR. - 120, 7" CASING SHOE
STAT. JR. - 150, 9 5/8" CASING SHOE
STAT. JR. - 180, 13 3/8" CASING SHOE
STAT. JR. - 210, 20" CONDUCTOR SHOE
STAT. JR. - 240, 30" CONDUCTOR SHOE
STAT. JR. - 270, 40" CONDUCTOR SHOE
STAT. JR. - 300, 48" CONDUCTOR SHOE

SIZE	WT/FT	FROM	TO
7"	23	0	5500'
9 5/8"	53.5	0	1000'
13 3/8"	68	SURFACE	1000'
20"	133	0	300'
30"	310	0	240'
40"	310	0	270'
48"	310	0	300'

TBL	BTM DIA.	PERFORATIONS	
1	5.500"	5145' - 5245'	2 SPF
2	5.500"	5270' - 5320'	2 SPF
3	5.500"	5340' - 5400'	2 SPF

1995 CASING COLLAR LOCATOR(2395)



EB 8/15/14