WELL ANALYSIS CORPORATION

WATER INJECTION SURVEY

Received
JAN 16 2013

FILING NO:
COMPANY: E & B NATURAL RES. MGMT. CORP.
WELL: 41
FIELD: WILMINGTON
COUNTY: LOS ANGELES
LOCATION: STATE: CALIFORNIA
DISTRICT: OTHER SVC:

DIS
PERMANENT DATUM: GROUND LEVEL ELEV. RKB: 13'
API NUMBER: 04021721768
LOG MEASURED FROM KB 9' ABOVE PERM.DATUM
DRILLING MEASURED FROM KB
ELEVATIONS: KB: FL DF: FL GL:

DATE LOGGED	06-25-2013	PRESSURE	FLOWING	INJECTION	SHUT-IN
RUN NUMBER	ONE	TUBING PSI			
EFFECTIVE DEPTH	3950'	CASING PSI	1420		
BOTTOM LOGGED DPT	3857'	INJECTION RATE	0	150 BWD	
TOP LOGGED DPT	3200'	GAS RATE		1.13 MCF	
TYPE OF INJECT	WATER	ACTIVITY		0.8 MCF	
FLUID IN WELL	WATER			8.88 BWPD	
WELL STATUS	INJECTION				
DEVIATION	0 DEG.				
MAX TEMPERATURE	118 F.	OIL Gr.			
AT DEPTH	3857'	GAS Gr.			
BOTTOM HOLE SENS	400				
LOGGING SPEED	VARIOUS				
RECORDED BY	A. GUINN.				
WITNESSED BY	MR.				
DRILLER	NOTIFIED				
LOGGING OPERATION	NORMAL				
DRILLING FLUID	WATER				

Equipment Data			
R/A EJECTOR	1.375"		
COLLAR LOCATOR	1.375"		
TEMPERATURE TOOL	1.375"		
GAMMA DETECTOR	1.375"		

Remarks/Survey Results

SURVEY INDICATES NO MIGRATION ABOVE TOP PERF OR AT THE PACKER.
D.D.G.S.R WITNESS: MCPHEE P. KAUFMAN & CAIN AM.

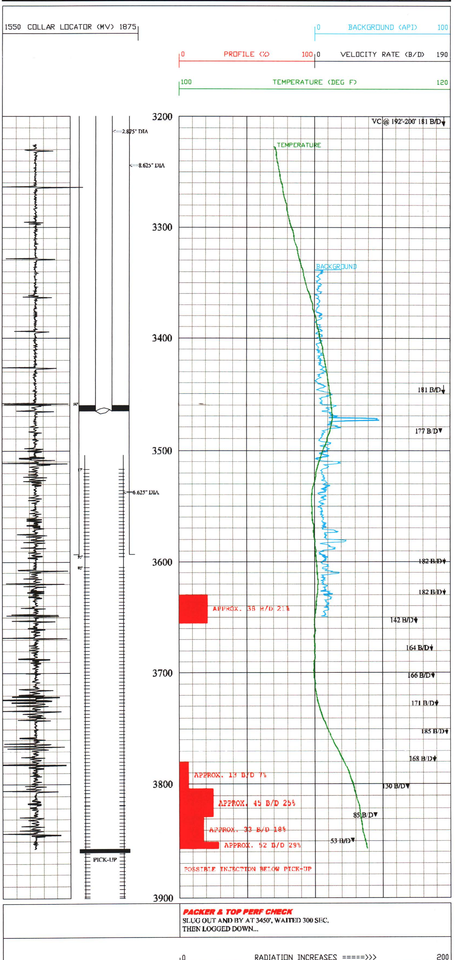
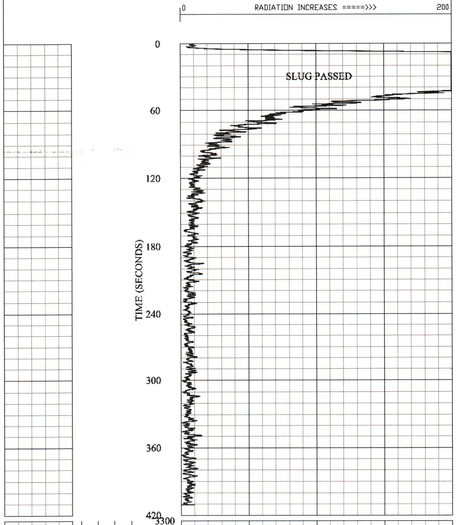
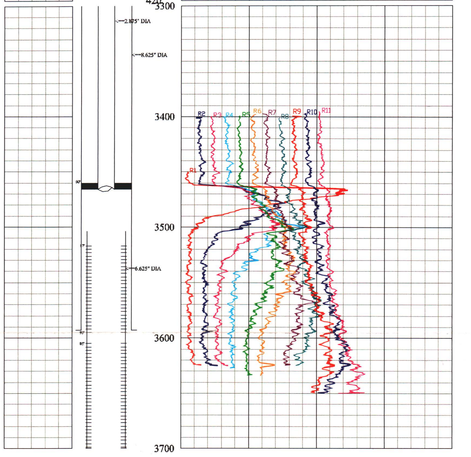
07:00 AM - ON LOCATION
09:00 AM - RAN IN HOLE
09:30 AM - BEGIN SURVEY
12:00 PM - PULL OUT OF HOLE
12:30 PM - OFF LOCATION

SURVEY INJECTION PROFILE:
3630'-3653' APPROX. 38 B/D 21%
3750'-3854' APPROX. 13 B/D 7%
3854'-3928' APPROX. 45 B/D 25%
3928'-3951' APPROX. 33 B/D 18%
3951'-3957' APPROX. 52 B/D 29%
POSSIBLE INJECTION BELOW PICK-UP

CASING AND TUBING RECORD

SIZE	WT/FT	FROM	TO	SIZE	WT/FT	FROM	TO
8.625"	32	SURFACE	3597'				
6.625"	24	3596'	3930'				
2.875"	6.5	SURFACE	3465.8'				

STR.	PIPE DIA.	PERFORATIONS
A	6.625"	3537'-3595', 3623'-3925'.
		PACKER: 3460.07'- 3465.8'.

WATER TOOL DIAGRAM

R/A EJECTOR AT 5.9'
COLLAR LOCATOR AT 7.9'
TEMPERATURE TOOL AT 9.5'
GAMMA DETECTOR AT 13.0'