E & B Natural Resources Management Corp.

PRODUCTION LOG INC.

OK PR 10/9/92

WATER INJECTION PROFILE

COMPANY Xtra Energy FIELD Wilmington WELL NAME #3 API NO. 03721768

SURVEY DATA			WELLBORE INTEGRITY CHECKS	
RUN NUMBER				
TYPE OF SURVEY	R/A-TEMP	PACKER	OK	
DATE OF SURVEY	10-7-92	CASING VALVE	OPEN	
INJECTION RATE (metered)	NA	CASING PRESSURE	ZERO	
INJECTION RATE (observed)	605 B/D	TOP PERFORATION	OK	
INJECTION PRESSURE	1650 PSI	W.S.O.	OK	
LOGGER'S DEPTH (pickup)	3890'	CASING SHOE	OK	
AMOUNT OF FILL	31'	TBG CHECK NEAR SURFACE	W/TRACER@100'	
BOTTOM HOLE TEMPERATURE	116.8°	WITNESSED BY D.O.G.	NO	
LOGGING ENGINEER	SCHRADER	NAME OF D.O.G. WITNESS	--	

RECEIVED
OCT 20 1992
DIVISION OF OIL & GAS
LONG BEACH, CA

REASON FOR SURVEY: ANNUAL CHECK

REMARKS:

DIAGRAM OF TOOLS USED: 60" BAR, INJECTOR, GAMMA DETECTOR, COLLAR LOCATOR, TEMPERATURE,

DIAMETER OF TOOLS 1-3/8"

MEASUREMENT DATUM 10' K.B.
DEPTH REFERENCE LINER TOP

COLLAR LOG

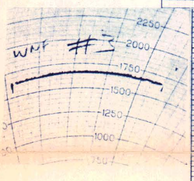
TEMPERATURE
110° 112° 114° 116°

CUMULATIVE FLOW – %
10 20 30 40 50 60 70 80 90 100

DIFFERENTIAL FLOW – %
80 60 40 20

3400
2-7/8"
3500
CP. @15
8-5/8" 32#
3600
3700
3800
3900
PICKUP
6-5/8" 24#

32% 195
31% 185
19% 115
9% 55
9% 55



PACKER CHECK: PART 1
EJECT TRACER WHILE WAITING ON TIME DRIVE ABOVE TBG TAIL

120 SECS.
60
0 SECS.
70 @ 3450'
PASS SLUG
SHOT @ 3370' @ 4 SECS.
0 1 2 3 4 5 6 7 8 9 10

BACKGROUND RADIATION PRIOR TO SHOOTING TRACER

3300
3400
3500
1 DOWN
2 UP @ 140 SECS.

PACKER CHECK: PART 2
LOG AREA ON "DEPTH DRIVE" AFTER SHOOTING TRACER

PKR
TAIL

240 SECS.
180
120
60
0 SECS.
0 1 2 3 4 5 6 7 8 9 30
SHOT @ 3570'

TOP PERF CHECK: SHOT # 1
EJECT TRACER WHILE WAITING ON TIME DRIVE ABOVE TOP PERF

BACKGROUND RADIATION PRIOR TO SHOOTING TRACER

3500
3600
1 DOWN FROM 3570'
SHOE
2 UP @ 240 SECS.

TOP PERF CHECK: ALTERNATE EJECT SLUG AND LOG SLUG ON "DEPTH" AS IT MOVES BY

L.T.