EPOCH WELL LOGGING, INC.

Bakersfield, CA (805) 397-7472
Ventura, CA (805) 658-7708
Anchorage, AK (907) 561-2474

COMPANY
WELL
FIELD
LOCATION
COUNTY STATE
API WELL INDEX NO.
ELEVATION: KB: DF: GL:
DATES
DEPTHS
SPUD DATE
DRILLING CONTRACTOR
COMPANY GEOLOGIST
COMPANY DRILLING SUP.
MUD COMPANY
MUD TYPE
LOGGING UNIT #
LOGGING GEOLOGISTS

ABBREVIATIONS

NB NEW BIT
(MILL TOOTH/INSERT)
PDC PC DIAMOND CUTTER
RRB RE-RUN BIT
DT DIAMOND BIT
CB CORE BIT
TG TRIP GAS
SG SURVEY GAS
WG WIPER GAS
CG CONNECTION GAS
KG KELLY-OUT GAS
WOB WEIGHT ON BIT
RPM ROTARY SPEED
PP PUMP PRESSURE
SPM STROKES/MIN

MW MUD WEIGHT
VIS FUNNEL VISCOSITY
PV PLASTIC VISCOSITY
YP YIELD POINT
FL FLUID LOSS
CL PPM CHLORIDE ION
MBT MUD RESISTIVITY
Rmf FILTRATE RESISTIVITY
AT LOGGED AFTER TRIP
AS LOGGED AFTER SURVEY
ND NO NETURNS
RP ROOP RETURNS
LCM LOST CIRC MAT'L
CL CHOCLATE LOT

CASING RECORD
TO
TO
TO
HOLE SIZE
TO
TO
TO

☐ SAND
☐ SANDSTONE
☐ SHALE
☐ SILTSTONE
☐ CLAYSTONE
☐ CLAY
☐ DIATOMITE
☐ CONGLOMERATE
☐ LIMESTONE
☐ DOLOSTONE
☐ VOLCANICS
☐ BASALT
☐ TUFF
☐ FOSSIL
☐ MICA
☐ LIGNITE
☐ GLAUCONITE
☐ PYRITE
☐ [illegible]

PENETRATION

DRILL RATE (FT/HR) drilling data

ANALYSIS OF RETURNS

DETECTOR — OIL — GAS – UNITS — CHROMATOGRAPH – PPM

TRACE / FAIR / STRONG / STOP

DITCH – TOTAL GAS
CUTTINGS GAS
CALIBRATION 100 units = 2% methane by volume

METHANE, C-1. ____
ETHANE, C-2. ____
PROPANE, C-3. ____
BUTANES, C-4. ____
PENTANES, C-5. ____

Note: Modifiers in Accessory Mineral Column are referenced to the count of an accessory mineral in a standard sample tray:
Rare.....1-5 Grains
Occasional.....5-10 Grains
Common.....10+ Grains
Abundant.....present thru entire sample
Example: Occasional pyrite, common hematite, abundant pyrite.
Accessory Minerals Column

REMARKS

LITHOLOGIC DESCRIPTION
MUD PROPERTIES
SURVEYS, OTHER TEST DATA

All colors are referenced to GSA Rock Color Chart.
All connection, carbide, survey and wiper gases are reported as units above background; trip gas reported as maximum units.
All gas detection equipment calibrated to SPWLA standard.

Note: begin logging @ 07:00 hrs 11-5-92

Kick off cement plug @ 566'
BHA #3, 7 7/8" JE
Jet 35F, 3-18's
11-5-92
MOB 1-2,200

MOB 6-8,000
SPM Mudwater
PP 900
SPM #2-60

BOP Scale
900 200 100
Incr MOB to 14,000

JE
Incr MOB 6-8,000

Rotary RPM = 0

MOB 6-8,000
SPM Mudwater
PP 900
SPM1-58

11-6-92
BHA #4, 7 7/8"
Jet 35F, 3-12's

BOP Scale
900 100
MOB 13,200
SPM 1-59
PP 850
SPM #1-59

JE

MOB 10-15,000
SPM 10-15
PP 900
SPM #1-59

JE

MOB 10-15,000
SPM 120
PP 950
SPM #1-64

OP Scale
900 200 50

MOB 10-15,000
SPM 120
PP 950
SPM #1-64

MOB 12-19,000
SPM 100-120
PP 800-850
SPM #1-58

MOB 12-15,000
SPM 100-120
SPM #1-64

Incr MOB to 15-18,000

Incr MOB to 12,000

BOP Scale
900 200 100

Incr MOB to 15,000

MOB 12-15,000
SPM 100-120
PP 850-900
SPM #1-62

JE
MOB 12,000
SPM 100-120
PP 850-900
SPM #1-61

T.D. @ 04:30 hrs, 11-18-92
Bit #4, 3549', 34.75 hrs

Sagar Creek

Bit 5-1/2 Jet
Bit #4, 3549'
Bit 5-1/2 Jet
Bit #5, 3549'
Bit 5-1/2 Jet
Bit #6, 3549'
Bit 5-1/2 Jet
Bit #7, 3549'
Bit 5-1/2 Jet
Bit #8, 3549'
Bit 5-1/2 Jet
Bit #9, 3549'
Bit 5-1/2 Jet
Bit