CC 23-3165

EPOCH WELL LOGGING, INC.

Bakersfield, CA (805) 397-7472

Ventura, CA (805) 658-7708

Anchorage, AK (907) 561-2474

COMPANY	NAHAMA & WEAGANT ENERGY CO.
WELL	C.O.L. CA SASQUATCH 23-31-65
FIELD	WEST
LOCATION	1870' North and 1880' West from the South Quarter of Sec.31, T6N, R4W, W.M.
COUNTY, STATE	Columbia, Oregon
API WELL INDEX NO.	
ELEVATION	KB: GL:
DATES	Spud: TD: Rig Rel:
DEPTHS	TD: PBTD:
SPUD DATE	10-14-85
DRILLING CONTRACTOR	Taylor Drilling Inc. RIG #
COMPANY GEOLOGIST	Jeff Leuzner
COMPANY DRILLING SUP.	Rob Lewis
MUD COMPANY	Beaver Drilling Mud
MUD TYPE	Gel-Polymer
LOGGING UNIT #	3
LOGGING GEOLOGISTS	Jim Fastes, John Hiedle

CASING RECORD
20" cond. TO 20'
8 5/8" TO 4341'
TO
TO
TO

HOLE SIZE
12 1/4" TO 4341'
7 7/8" TO T.D.
TO
TO
TO

ABBREVIATIONS

NB	NEW BIT (MILL TOOTH/INSERT)	MW	MUD WEIGHT
PDC	PC DIAMOND CUTTER	VIS	FUNNEL VISCOSITY
RB	RERUN BIT	PV	PLASTIC VISCOSITY
RTB	RETIP BIT	YP	YIELD POINT
CB	CORE BIT	FL	FLUID LOSS
TG	TRIP GAS	PH	PPM CHLORIDE ION
SG	SURVEY GAS	Rm	MUD RESISTIVITY
WG	WIPER GAS	Rmf	FILTRATE RESISTIVITY
CG	CONNECTION GAS	LAS	LOGGED AFTER SURVEY
KG	KELLY CUT GAS	NR	NO RETURNS
WOB	WEIGHT ON BIT	PR	POOR RETURNS
RPM	ROTARY REVMIN	LOM	LOST CIRC. MATERIAL
PP	PUMP PRESSURE	CO	CIRCULATE OUT
SPM	STROKES/MIN		

SAND	CLAYSTONE	LIMESTONE	TUFF	GLAUCONITE
SANDSTONE	CLAY	DOLOSTONE	FOSSIL	PYRITE
SHALE	DIATOMITE	VOLCANICS	MICA	Marl
SILTSTONE	CONGLOMERATE	BASALT	LIGNITE	

PENETRATION

DRILL RATE (FT/HR) drilling data

ANALYSIS OF RETURNS

DEPTH | LITHOLOGY | OIL | GAS — UNITS | CHROMATOGRAPH — PPM

TRACE | FAIR | STRONG | STEADY

DITCH — TOTAL GAS

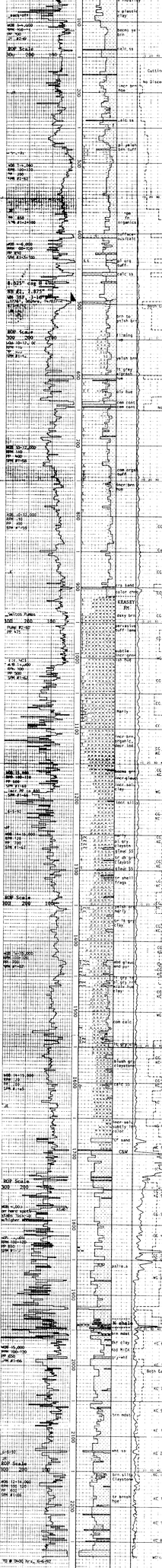
CUTTINGS GAS

CALIBRATION 100 units = 2% methane by volume

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

Note: Modifiers in Accessory Mineral Columns are referenced to the count of an accessory mineral in a standard sample (Cayl)

Note: Rig mud pumps #1 5"X14" 115bbl/stk #2 5"X14" 115bbl/stk


SAGER CREEK
KRASEY
Cattle
Cattle
Cattle