

COMPANY ORE-IDA FOODS INC.
 WELL "Ore-Ida" No.1
 FIELD _____
 LOCATION NE 1/4 Sec.3, T18S-R47E; W8&M

COUNTY Malheur STATE OR
 ELEVATION _____
 API WELL INDEX NO. _____

SPUD DATE 1st August 1977 TIME 8:45 AM
 LOG DATES 1st August 1977 TO _____
 LOG DEPTHS 54' TO _____
 LOGGING GEOLOGISTS Ross Brunetti Earl Anania
John Robbitt Jon Mulder Al Morgan

ENERGYLOG UNIT Dakota

CO GEOLOGIST Murray Gardner

CO ENGINEER Bill Hathaway

CO. PUSHER _____

DRILLING CO. O. B. Montgomery Inc

RIG Seven PUSHER C. Lindsey.

MUD COMPANY Western Mud

MUD ENGINEER Tim Cook, Robert Storar

MUD TYPE Gal-Water to 225', Lignosulfonate
to 8183, Water to

HOLE SIZE 17 1/2" TO 225'
12 1/4" TO 8180'
8 1/2" TO _____
 _____ TO _____

CASING SIZE 20" cond TO 40'
13 3/8" TO 225'
8 5/8" TO 8183'

PUMPS: No. 1 Gardner Denver GXR 6" x 18"
 No. 2 National C350 6" x 18"



ENERGYLOG

ENERGY WELL LOGGING SERVICE

LITHOLOGY SYMBOLS



MUD DATA

W WEIGHT 16/cu. ft
 V VISCOSITY _____
 F FILTRATE _____
 FC FILTER CAKE _____
 Sd SAND % VOL _____
 S SALINITY ppm Cl⁻
 Sol SOLIDS % VOL _____
 T TEMPERATURE ° Fahrenheit
 Rm RESISTIVITY OF MUD 75
 Ri RESISTIVITY OF FILTRATE 75

OTHER DATA

TG TRIP GAS _____
 STG SHORT TRIP GAS _____
 CG CONNECTION GAS _____
 NR NO RETURNS _____
 LAT LOGGED AFTER TRIP _____
 C CARBIDE _____
 DST DRILL STEM TEST _____
] DST INTERVAL _____
 [CORE INTERVAL _____
 | CASING POINT _____

DRILLING DATA

NB NEW BIT _____
 RRB RERUN BIT _____
 CB CORE BIT _____
 WOB WEIGHT ON BIT (lbs.) _____
 RPM ROTARY REVS/MIN _____
 Pp PUMP PRESSURE (psi) _____

OIL based on live oil in unwashed cuttings. mud. and % staining of washed cuttings.
 GAS detector calibration records 100 units with a mixture of 2% by volume methane in air.
 DEPTHS derived from drillers pipe measurements.

6L01805

Appendix D



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

GAS ANALYSIS

FLUID: MUD AIR

CO₂ PPM

TEMP (OUT)

100 1000 10000

50°

100°

150°

200°

H₂S PPM

TEMP (IN) PRESS (IN)

DITCH GAS (units)

100 200 300

RM (OUT) MOIST (OUT)

CHROMATOGRAPH PPM (from 4118')

1000 100 1000

PETROGRAPHY AND REMARKS

4E 200 150 100 50

870ft / 15 1/2 hrs

Incr WOB

W/L
RPM 100
RPM 100

RPM 100

RPM 100

RPM 100

RPM 100

0

100

200

300

Drilled Conductor Hole to 54'
Set 20" Conductor to 40'
Drig 17 1/2" Hole

CLV: lt gy, sft, hydrt, sl cohes to
frm, sl brit, fri; sl-mod slty, pos
tuf, mic-mica

SD: vf-f grdg to slt; clr, ang-shrd
qtz & vgt, red-brn-gn-gy, sbang-rd
rk frags, mnr hvy mrls, mica; pred
v slty, v arg, grdg to sdy sltst;
com frm, v fri; occ abnt Picy frags,
occ sme c brn carb mat

LS: brn, hd, sdy-slty, v arg, pos calc
conc

Down 27hrs for Rig Repair

W 67 V 37

W/L 100 / 10 slty grdg to
CLV: lt brn gy, mnr tan-buff,
pred clr-slty qtz & com sltst,
vcol lith frags, vf-slt, blk, gn
brnq.



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT):

60° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM 100 1000 10M

H₂S PPM

DITCH GAS 100 200 300

PETROGRAPHY AND REMARKS

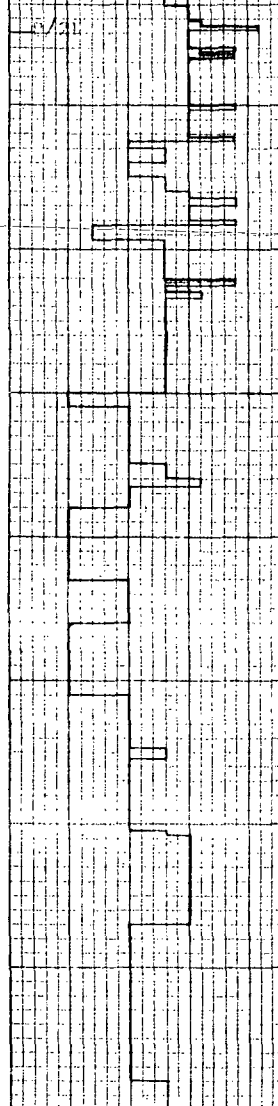
ORE-IDA FOODS INC.

"Ore-Ida" No.1

Sec.3, T18S-R47E WB&M

Malheur Cty., Oregon

40 200 150 100 50



DEPTH 400 500 600 700

SDYSLTST/SLTST: lt-m gy, com brn-tan, med buff, firm-friable, non calc, waxy, / sd, vf-f, pred clr-mky qtz & com flds, vcol lith frags, tr mica.

SD: vf-f, grdg to slt, ang-shang pred clr-mky qtz, com vcol lith frags / lt-m gy, med white-bone cly mtx.

CLY/CLYST: lt-m gy, med-sh, tan-buff, sft & mushy-hd & brit, non calc, / abn vf-f, ang, sd, pred clr-mky qtz, abn vcol lith frags.

SLT/SDYSLTST: lt gy-buff, hd-brit / frac cleavage.

SD: grdg to sltst & sdysltst, vf-f, ang-shang, pred vcol lith frags, abn clr-mky qtz.

SD: as above.

CLY/CLYST: lt-m gy, lt brn-tan, sft & mushy - hd & brit, / abn vf-slt.

SLTST/SDYSLTST: lt gy, lt brn-tan, friable-hd & brit; non calc, / abnt f-vf, ang sd.

SD: vf-f / abnt slt, ang-shang, pred clr-mky qtz & vcol lith frags, / wh-bone, lt gy cly mtx.



ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____

100 150 200

TEMP (IN) PRESS. (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM _____ 100 1000 10m

H₂S PPM _____ 10 100

DITCH GAS

(units) 100 200 300

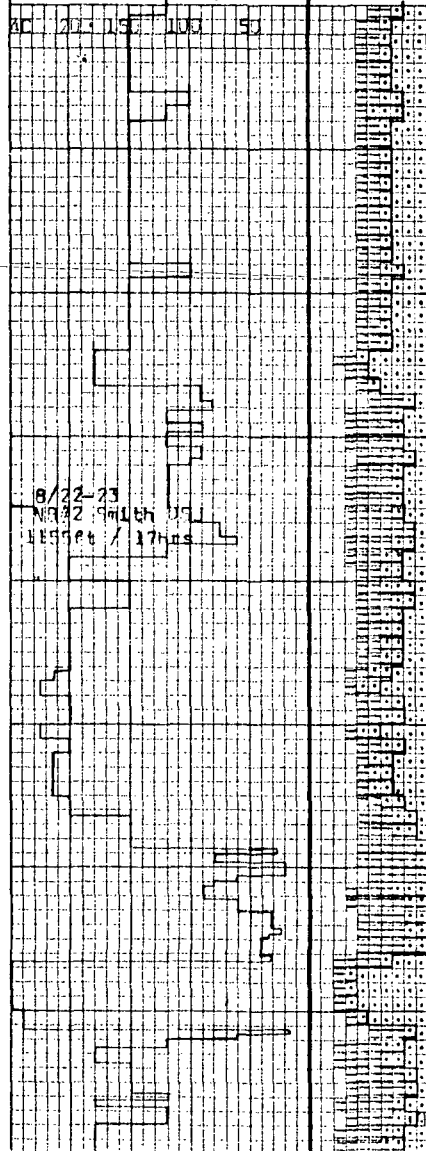
PETROGRAPHY AND REMARKS

Ore-Ida Foods Inc.

"Ore-Ida" No. 1

Sec. 3, T10N-R47E-WB&M

Walheur Cty., Oregon



SAMPLES POOR QUALITY DUE TO FINE SANDS IN CUTTINGS PASSING THROUGH SHAKER SCREEN.

w 67 v 38

SOYSLTST/SLTST: lt-m gy, tan-lt brn, buff-bone, firm-hd & brit, non calc, / abnt vf-f sd.

NOTE: HIGH GAS READINGS DUE TO HIGH DRILL RATE & RECYCLE

SLTST: m gy-gybrn; sl sft-sl frm, cohes, f gr, v arg, hydrt; qtz, mica, pos tuf; mtr v sft, n cohes, wh cly = alt tuff? or diatomite?

RAN 13 3/8", 54.5% CSNG to 925'

NOTE: reduced to 12 1/4" hole

w 67 v 38

CLY: lt-m gy, sft-mushy, firm & waxy, mod-v w hydr, / abnt, sd & slt, pred vf-slt, ang, cir, qtz & flds, abnt, vcol lith frags & blk organic detritus.

SD: vf-f, abnt slt, ang / lt gy-bone, wh, cly mtx.

SLTST: lt gy, sft-firm, / abnt, slt sz vcol lith frags & qtz, cly in mtx.

SD-SS: lt gy; vf-m, pred vgt volc rk frags: gn, brn, red, sbang-rd, / cir-Fe ox stn sbrd qtz, sme fld; lsc-consol/gy cly mtx, sl frm, v fri



ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT):

50° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM _____
0 100 1000 10M

H₂S PPM _____

DITCH GAS
(units) 100 200 300

PETROGRAPHY AND REMARKS

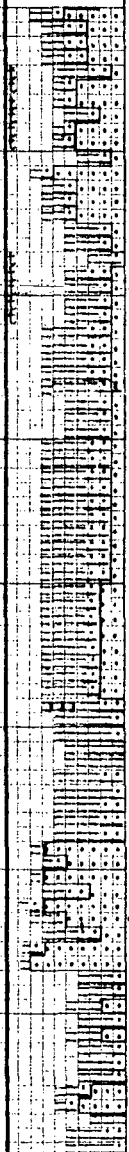
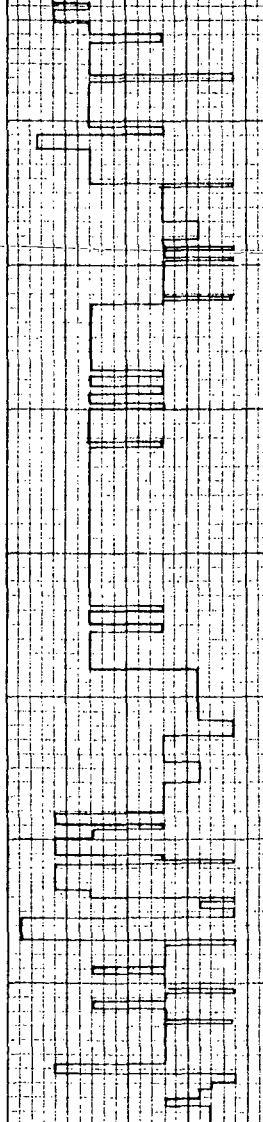
ORE-IDA FOODS INC.

"Ore-Ida" No. 1

Sec. 3, T18S-R47E, W8&M

Malheur Cty., Ore.

200 150 100 50



1200

1300

1400

1500

STC 400

C = 80u / 39v

Lag = 15min / 59spm

SS-SD:lt gy-gngy-blugy;vf-m, pred ang-sbrd, red-gy-gn rk frags & clt sbang-sbrd qtz;mnr biot;occ com-abnt c brn carb mat;in mtx of frm, n hydrt, sl slty cly;mod p-p srt; sme pref orient of elg grs;el frm, v fri

TUFF:wh, sft-sl frm, mod hydrt cly (devit gl?) - com-abnt-vf-biot, sme shards

SLTST-CLYST-CLY:pred lt brn, v sft, w hydrt, mod cohes, /lt gy-gygn, sl-mod frm, brit, n hydrt;intrgrdgi com dism vf-m sd grs as for SS abv; pos tephra?, tr pos shards;tr c Plcy frags; sme bds SS as abv

SS:lt gy-blugy;f-m, mnv vf & n;pred rd, gn-gy aphan rk frags, sme red-brng, /clr qtz, hvy mnrls;w cpctd, frm-sl hd, brit, fri;slty-arg, mod p-p srt;tr vf dism calc;indur by rex1 of mtx clys;intbd gn-gygn SLTST-CLYST;hd, brit, occ sl sdy; cont tr Plcy frags

CLY:lt brn, sme tan, pred v sft, w hydrt, sl cohes; sme sl hd, brit, n hydrt;sl sdy/rk frags, qtz, biot, pos tuf



ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____
50° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOST (OUT)

GAS ANALYSIS

CO₂ PPM _____
0 100 1000 10000

H₂S PPM _____

DITCH GAS _____
0 (units) 100 200 300

PETROGRAPHY AND REMARKS

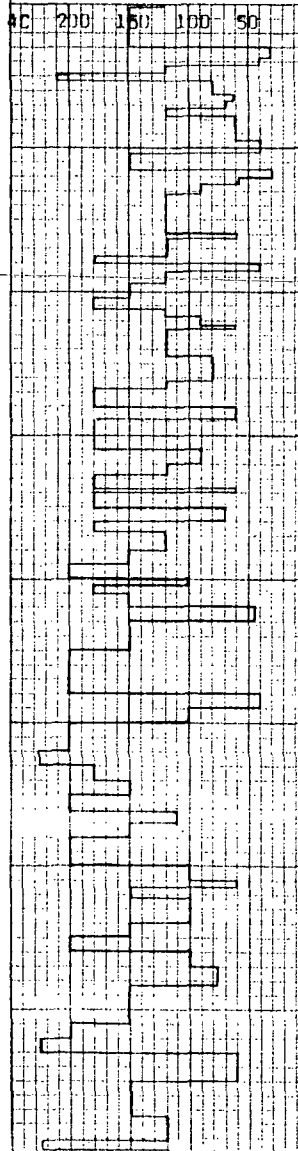
ORE-10" FOODS INC.

"Ore-10a" No.1

Sec.3, T18S-R47E, #B&M

Malheur Cty., Ore.

AC 200 150 100 50

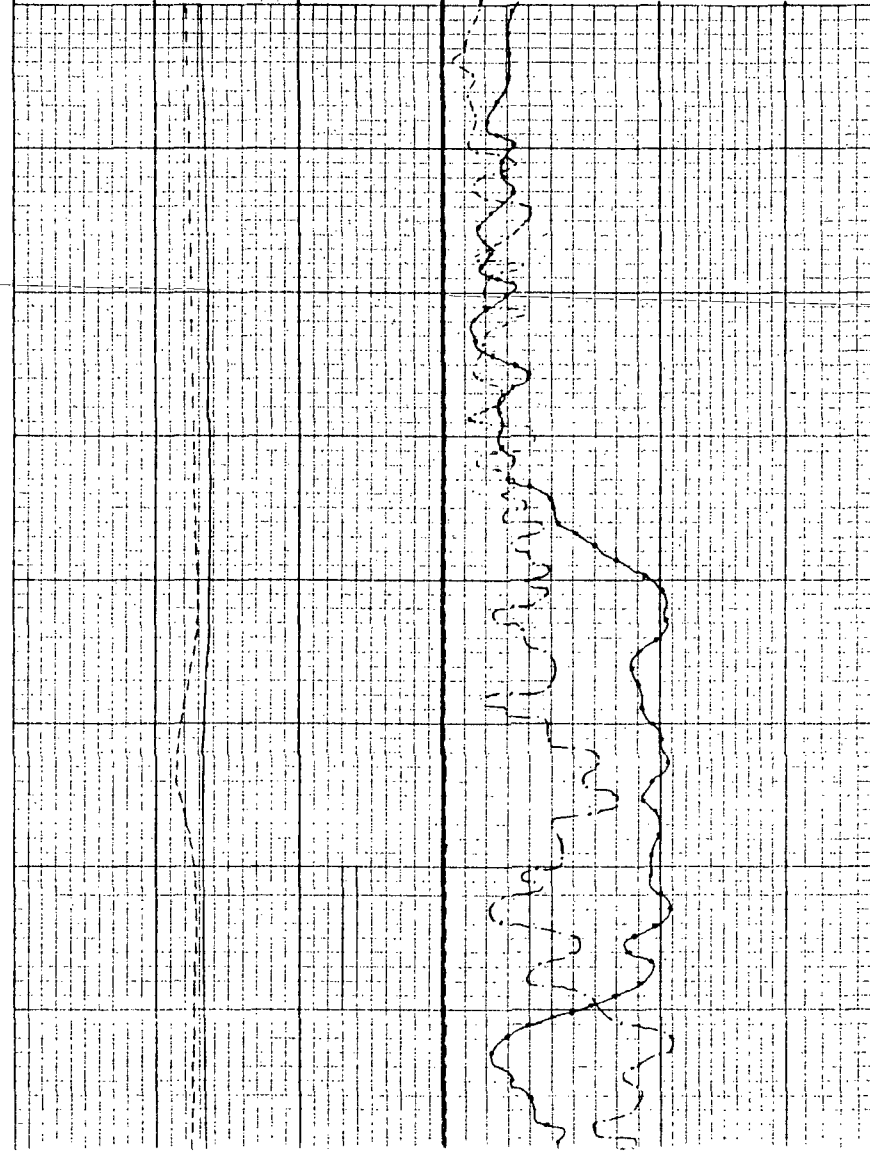


1500

1700

1800

1900



SLTST-CLV: lt brn-gn brn; v sft, w hydrt to frm, brit; v f sltst grds to slty cly; mnr sdy/dism vf qtz & rk frngs

w 71 v 55

TUFF: devitrified; lt bone-lt gy gn, firm, non calc, no sd or slt.

SD: lt gy gn, firm & friable to unconsolidated, pred clr-mky qtz & flds; v col, gn, org, blk, lith frags, blk organic detritus, / abnt slt, wh-bone & lt bl gy cly mtx.

w 70 v 52

CLY/CLYST: lt-m gy, lt-m bl gy, bone-wh, buff, olive, tan-brn, sft -mushy, w hydr, firm & hd, waxy, non calc, occ pieces wh-bone clyst / bands, blebs, splotches, of gy clyst.



ENERGYLOG

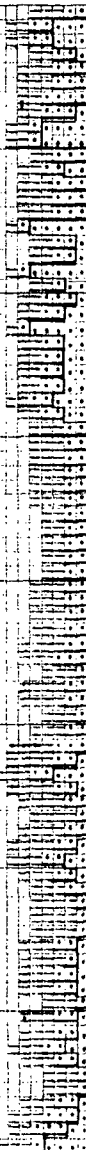
GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

40 200 150 100 50

9/24
NB73 Read 1100
1573ft / 35hrs 15-85-



DEPTH

2000

2100

2200

2300

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT)

60° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM 100 1000 10M

H₂S PPM

DITCH GAS (units) 100 200 300

PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No. 1

Sec. 3, T18S-R47E, W8&M

Malheur Cty., Ore.

SDYSLTST/SLTST: lt gy-lt bl gy, bone, olive, brn-tan, dk gy, v sft & gritty, firm-hd, non calc. / abnt silt-vf volc lith frags, clm mky qtz & flds?, blk organic detritus.

2070' 1'15'
w 70 v 45 f 0.6 fc 2/32
s 400 pH 9.1 sd 1/2% sol 8%

CLY-SLTST: lt brn-gybrn, mnr sl gn, v sft, cohes, w hydrt to mod frm, brit, fri; intrgrdg; sme/dism vf-m sd grs qtz & volc rk frags (not in discrete bds-lams; pos tephra)

TC 15000



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____

TEMP (IN) PRESS (IN)

50° 100° 150° 200°

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM _____
100 1000 10M

H₂S PPM _____

DITCH GAS (units) _____
100 200 300

PETROGRAPHY AND REMARKS

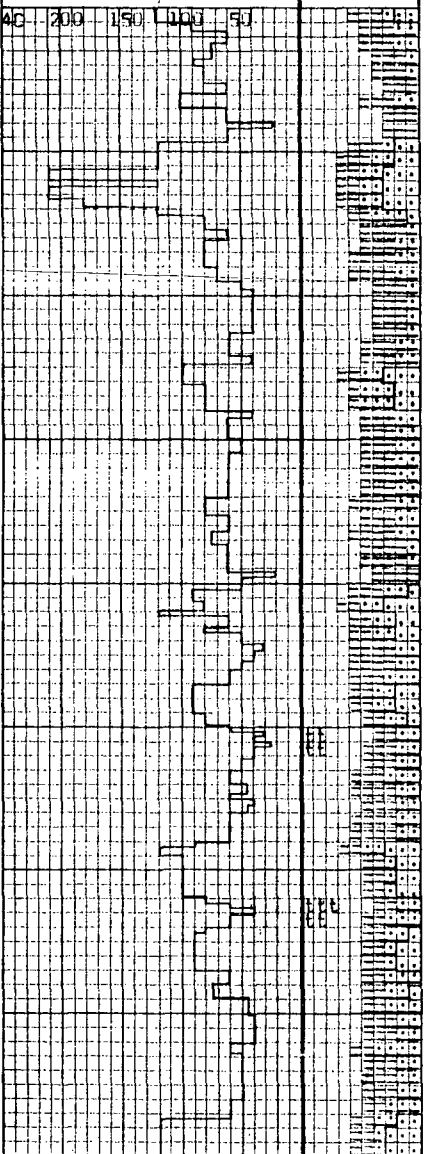
ORE-IDA FOODS INC.

"Ore-Ida" No. 1

Sec. 3, T18S-R47E, W8&M

Malheur Cty., Oregon

40 200 150 100 50



2400

2500

2600

2700

shipping mud

adding water continuously to mud

adding water continuously to mud

shipping mud

pH decreasing ?

Unplug Flowline; 2 1/2 hrs no circ

C= 25u / 45v

Leg= 32min / 50spm

SLTST-CLY: lt brn, v sft, vw hydrt, n cohes, v stky; intrgrdg, vf-f silt & cly, mnr dism sd grstqtz, occ mic-mica, pos tuf, occ sme pos shdr

w 71 v 45

SS: lt gy-sl blu; vf-m, pred gn-blug rd rk frags; ang-sbrd qtz, sme red rk frags, mnr wh, silt fld; up srt / silt-cly mtx, mod frm, v fri

w 69 v 45

CLY/CLYST: lt-m gy, dk gy, gy gn buff-bone, occ wh, sft & mushy, firm & hd / waxy surface, abnt large pieces of sluff, / app lamination & bedding, / abnt silt -vf, ang, vcol lith frags & cir -mky qtz or flds.

TUFF: lt gn wh, firm / waxy surface, non calc.

SLTST/SOYSLTST: lt gy brn-gy, buff tan, firm-sft, sl calc, / abnt sd.

w 71 v 45



ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____

50° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST. (OUT)

GAS ANALYSIS

CO₂ PPM _____

H₂S PPM _____

DITCH GAS _____

(units) 100 200 300

PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No. 1

Sec. 3, T18S-R47E, W8&M

Malheur Cty., Ore.

AC 200 150 100 50

8/25

WOB 10-15000

RPM 80-100

Rp 1800

SPM 50

2800

2900

3000

3100

decrease in
flow rate

adding water
continuously
to mud

mixing mud; add H₂O

CO₂ decreases
due to addition
of caustic to
mud

Gas background
increasing due
to increasing
viscosity

w 69 v 45

NOTE: poor samples; contaminated
with slough & the sd & slit is
passing through shakers.

w 71 v 42

CLY/CLYST: lt-m gy, brn-tan, lt bl
gy, buff, occ wh-bone, sft &
mushy, w hydr, firm-hd, w ind,
waxy, mod-calc, / vf-f sd & slit
pred vcol lith frags & clr-mky-
wh qtz.

SD: vf-f, ang-sbang, mnr sbrd,
pred clr-wh-mky, qtz & flds,
vcol lith frags, gn, blk, orng,
brn, occ; blk organic detritus/
abnt slit & cly mtx.

w 71 v 53

SLTST/SDYSLTST: lt brn-tan, lt-
m gy, firm-sft, hd, sl-mod calc
/ vf-f sd.

CLY/CLYST: lt-m gy, tan-brn, buff
sft-hd, mushy-waxy, poorly-w
Hydr, mod-v calc, / abnt sd-slt.

w 71 v 53

SD: vf-f, ang-sbang, unconsoli-
dated, pred clr-mky-wh, qtz &
flds, vcol, blk, gn, orng, wh,
lith frags / wh-bone cly mtx.

SLTST/SDYSLTST: as above.



ENERGYLOG
GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____
50° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM _____
0 100 1000 10M

H₂S PPM _____

DITCH GAS _____
0 (units) 100 200 300

PETROGRAPHY
AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No.1

Sec.3, T18S-R47E, WB&M

Malheur Cty., Oregon

AC 200 150 100 50

RRR 1000
WOB 15000
RPM 100-100
SP 1200
DPM 51

NOTE: DRILL RATE
SCALE CHANGE

20 100 75 50 25

3200

3300

3400

3500

CURV 1.300

Circ 1/2 hr.
Clean Ditch &
Condition mud

No circ. 1/2 hrs
Trip out 170
Circ. 1/2 hr after
drill run max read
thru down pipe on
wire line let sit
3/4 hr. temp 125°

Gas background decrease
due to increasing mud wt.

High CO₂ due to
fermentation of mud

Changing mud
properties while
building mud wt.,
adding chemicals &
water.

Adding caustic
to mud causing
increase in pH
& decrease in
CO₂

adding water
mud temp out
drops

Close Addn of water

Shipped Mud
in Bitts

3151 0-45°
CLY & SLTST: lt brn-gybrn, pred v
sft, vw hydr, n cohes, v solub, bulk
of cly sz mat wash out of spl; abnt
vf qtz slit, & gl shards, sme biot;
sme sltst-clyst, lt-m gy, frm, brit;
cvgs occ abnt

Returns from intvl 3210-3244
logged after trip; spls & readings
useless

w 71 v 54 pH 8.0

Rm 2.4 RF 2.4 T 123

NDIS: mud wt. is being increased
in part to reduce sloughing.

SLTST/SOYSLTST: lt gy, bone-wh,
firm, friable, sl calc, abnt
cly mtx, lt-m gy, sd, vf-f-slt, m
ang-shang, mar sbrd, vcol lith
frags, org-red (rhyol), blk (devit
vol), gn (chlor), & clr, wh-mky
qtz & fids, tr, blk brn-yel, mafic
grs, blk-silver, mica, wh-yel
calc grs, pyr concretions; note
detailed description of sd gas
derived from deslter sample.

CLY/CLYST: lt gy, buff-bone, poor
-well hydr, sft & mushy-hd & brit
waxy, sl-mod calc / occ blk f-vf
organic detritus, mar slt.

w 73.5 v 47 pH 7.5 f 9.0

fc 2/32 sd 1/4 = 350

SS: lt gy-m gngy-gn; pred vf-f, mar
m; col var/var in rk frag type;
frags pred rd, gn-blugn-gy, occ/
coating of sil; clr qtz; lt brn
slt biot, sme blk carbonac matl
mod p-p srt; occ fr-gd prefer
orient of platy grs

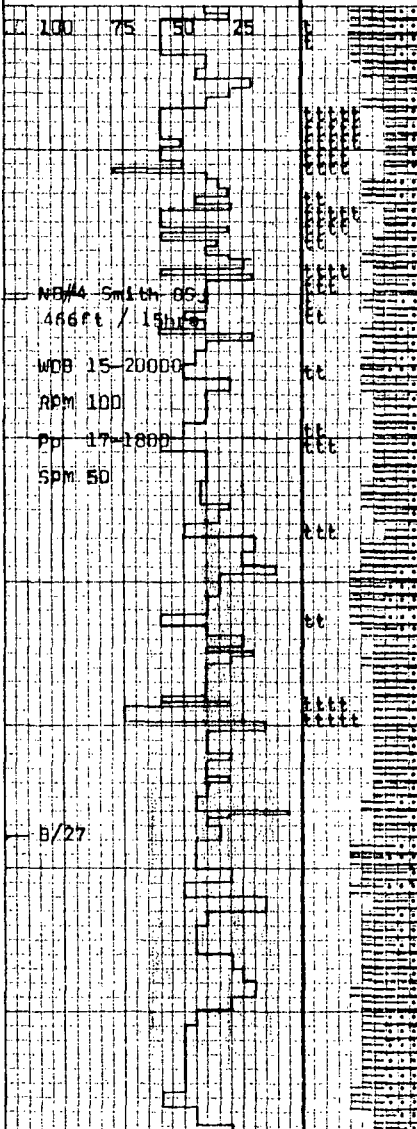


ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH



DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) 50° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM 100 1000 10M

H₂S PPM

DITCH GAS 0 (units) 100 200 300

PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No. 1

Sec. 3, T18S-R47E, WB&M

Malheur Cty., Oregon

DEPTH

3600

3700

3800

3900

Add H₂O to Mud

No Circ. 5 hrs
Hit Fill at 3622
2 1/2 hrs from to
Bottom; Trip No
131°

adding H₂O &
benite & chemicals
to mud.

CO₂ var. Poss
Due to addn of
H₂O & Caustic

TC 250u

TUFF: wh, minor v lt brn; v sft to sl firm, moderat to well hydrated sl to mod cohesive; pred alter to clycom f-vf blk euhedral biot & vf anhedral clr qtz; com vf pyrt concret formed of vvf micro-spherules; trace calc dissem thru

3652' 6°15'

w 74 v 50

SLTST/SDYSLTST: lt-m gy, bl gy, occ lt brn-tan, buff, gy gn, firm-hd & brit, poorly-mod hydr, abnt secondary mineralization of mtx, sl-v calc, mod-sl micro-mica, occ exfoliates in presence of acid, / abnt vf-slt, eng, clr qtz, blk vf shiny grs.

C=10u / 54 v

Lag=40min / 53 spm

TUFF: as above
w 73 v 54

pH 10.6

w 73 v 45

CLY/SLTST: dk-m gy, laminated / brn layers, mod calc, firm & fissile

CLY/CLYST/SLTST/SDYSLTST: lt-m gy, lt brn-buff, bone-wh, bl gy sft & mushy, v w hydr, firm-hd brit, waxy app. / vf-slt, eng, clr-wh, qtz.



ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____

50° 100° 150° 200°

TEMP. (IN) PRESS. (IN) _____

RM (OUT) MOIST. (OUT) _____

GAS ANALYSIS

CO₂ PPM _____

0 100 1000 10M

H₂S PPM _____

DITCH GAS _____

0 (units) 100 200 300

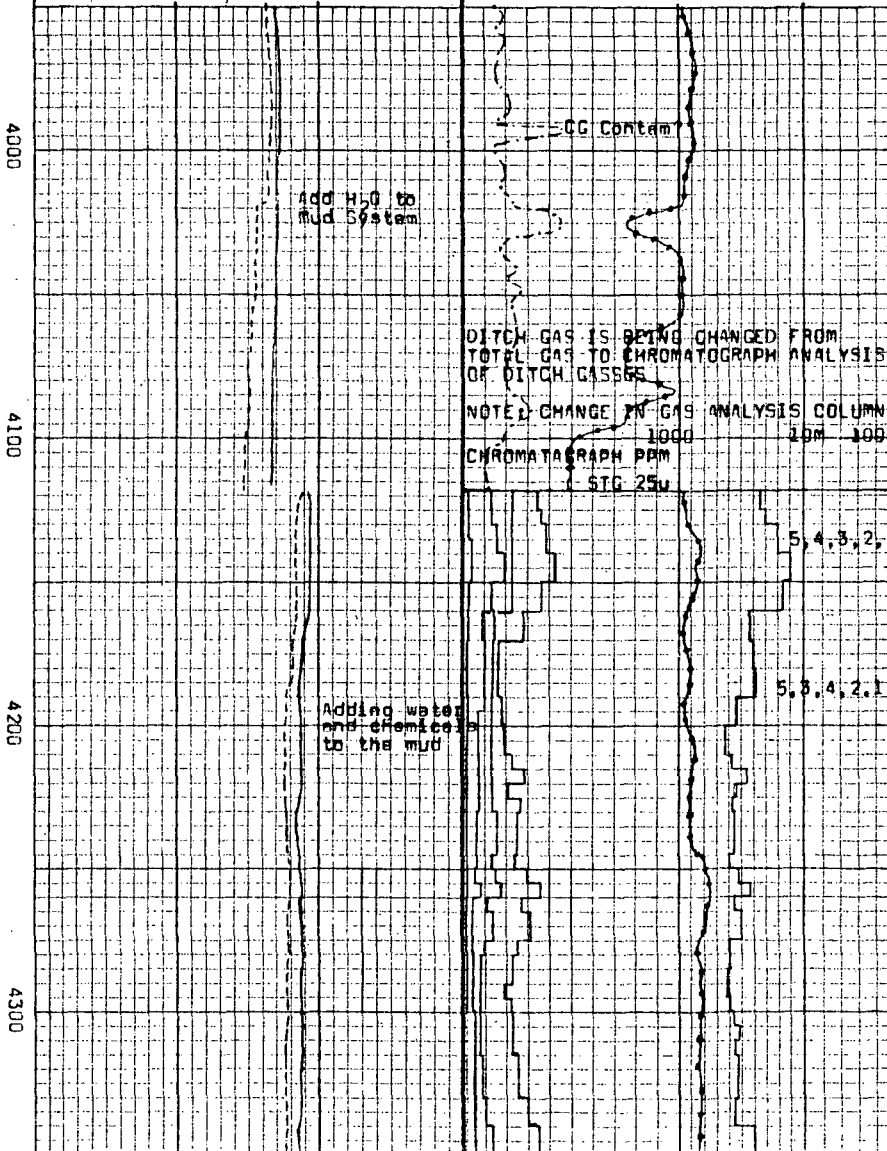
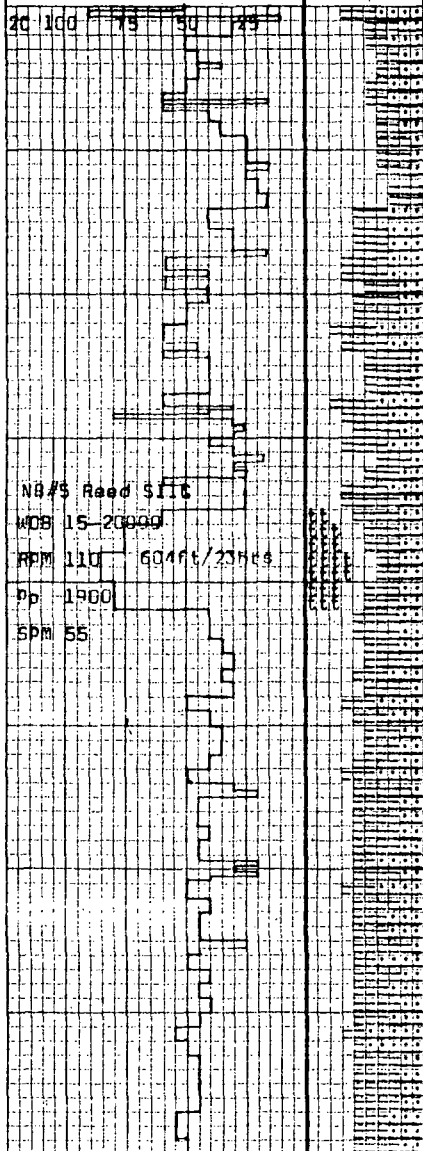
PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No. 1

Sec. 3, T18S-R47E, W8&M

Malheur Cty, Oregon



w 74 v 42 f7.2 fc 2/32

pH 10.0 s 350 sd 1 1/2

CLY & SLTST: predom lt brn, some gy brn; some m gy-blugy (poss cavings) grades from sl silty, v sft, well hydrated, mod cohesive, soluble cly to m gr, argil, sl-mod firm, brittle, sl sdy siltst; qtzose, tuffac, micac, occ v calcar/vf calc dissem thru, occ tr vvf pyrt or marcas spheres in v thin veins

SHUT DOWN FOR RIG REPAIR
8/27 to 9/1.

REAMED FROM 2522' to 4118' /
NB#5 in 29 hrs.

C-45u / 55 v

LAG=55min / 55 spm
TUFF: lt-m gy, lt gy brn, v firm-hd, sl hydr, v w ind, sl-mod calc / shard frags, vf-m, eng, blocky, cir-wh-yel, qtz & flds frags, m mica flakes.

CLY/CLYST: lt-m gy, lt gy brn, mnr gy gn, firm-mushy, v w hydr, sl-mod calc, abnt sec min, micro mica, / dism pyr.

SLTST/SOYSLTST: lt-m gy, lt gy brn, firm-hd, mod-well indurated, mod-poorly hydr, sl-v calc, abnt secondary mineralization, micro micaceous, / abnt, vf-f ang-sband sd & silt, dism pyr, mica, mnr lith frags.

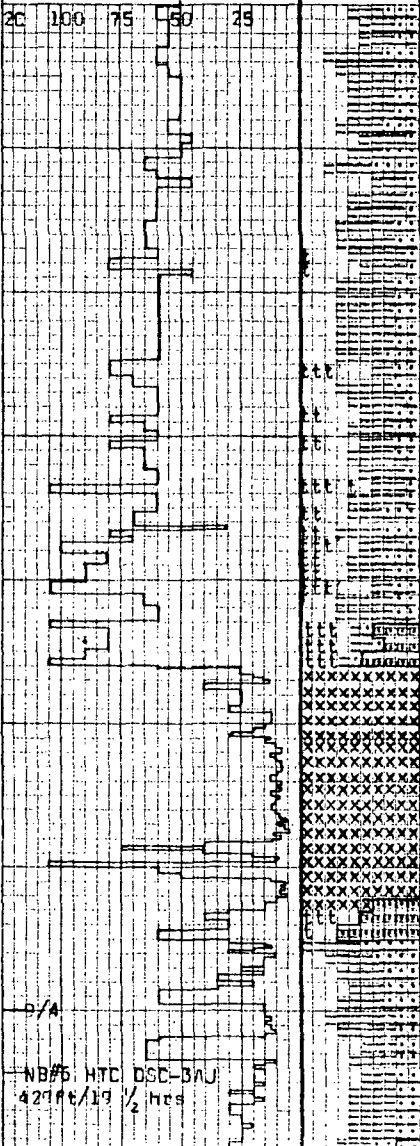


ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH



DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS				GAS ANALYSIS				
FLUID: MUD <input checked="" type="checkbox"/> AIR <input type="checkbox"/>				CO, PPM	100	1000	10M	
TEMP (OUT)				H ₂ S PPM				
50°	100°	150°	200°					
TEMP (IN) PRESS (IN)				CHROMATOGRAPH PPM				
RM (OUT) MOIST (OUT)				1000			10M	100M

PETROGRAPHY AND REMARKS

ORE-IDA FOODS
"Ore-Ida" no.1
Sec.3, T18S-R47E, WB&M
MALHEUR CNTY., OREGON

w 77 v 50 f 8.8 fc 2/32
pH 11.0 s 350 sd 1 sol 15

TUFF: wh-lt gymottled, sft-sl firm, v cohesive, pt alt to cly; com vf blk biot; vf calc dissem thru; yellowng minrl fluor

5,3,4,2,1

Add Caustic & water

5,3,4,2,1

SlTST & CLY: lt-med brn, sme gybrn; sl firm, brittle, m-c grained, argil com sdy, sltst grad to sft, w hydrat. sl cohesive, v silty cly; sdy sltst/vf-m, sbang, clr qtz grs, f-m musc, c blk carb matl; occ qtz/biot grs poss plut rk frags; com pyrt-marces concret & in thin lams; occ wh, c xln, thin calc frac fill or veins; trace slicken/wh calc

SS: wh, f-c gr, predom ang-sbang clr qtz & lt brn, oxid biot; some feld, rd rk frags; well cement/calc; intbeds TUFF as sbv

DIABASE: lt-med green; aphanit & alt to chlor at margin, becomes med-f phaner; plag feld & brn pyrox/ver magnetite; minor vf calc dissem thru

DIABASE: lt-dk green; med-f gn phaner; sbhed-anhed, mnr euhed, pred plag felds, sbnt magnetite & yel brn pyroxene, dism pyr, /tr slicken sides, becoming aphan & saussuritized at margin.

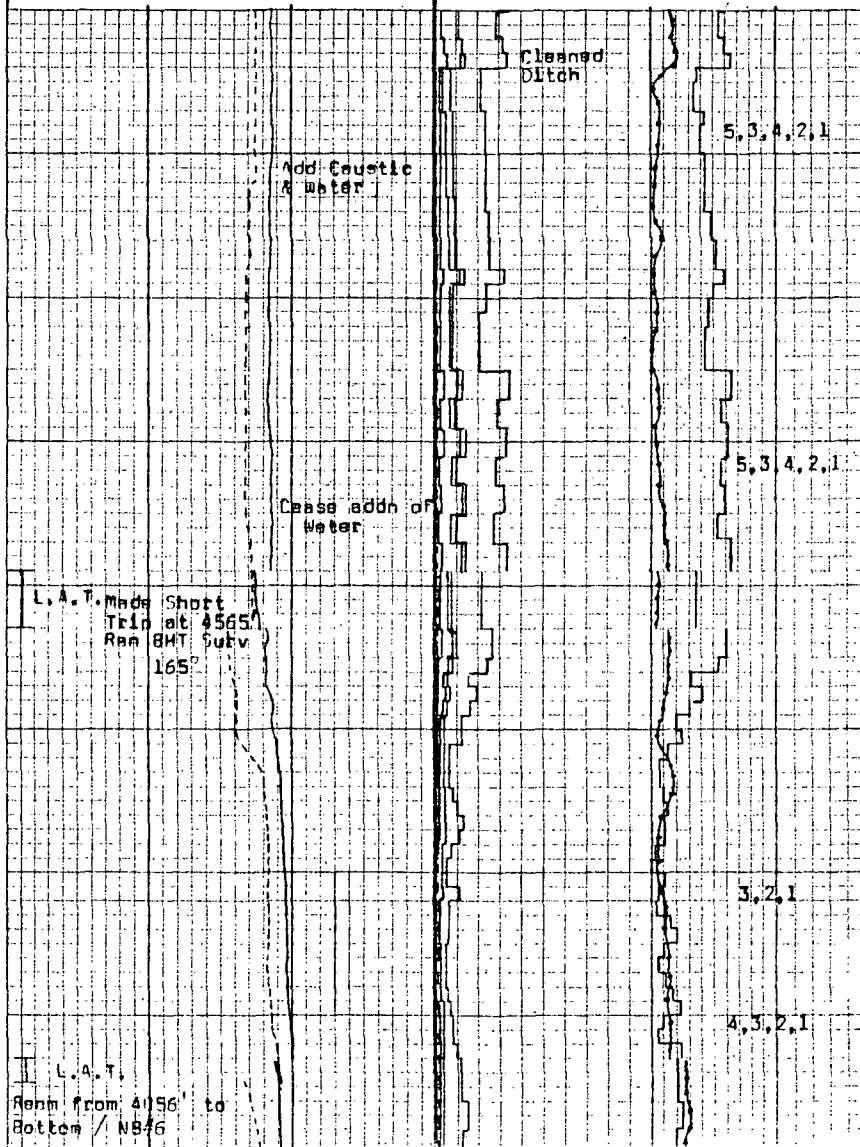
SS: wh / brn oxid streaks, f-c gr pred ang-sbang clr qtz & lt brn oxidized biotite, some felds, v well cmnt / calc & mnr pressure soln.

3,2,1

4,3,2,1

w 77 v 45 f 8.4 fc 2/32
pH 10.5 s 350 sd 1% gel 3/15

Poor samples; abnt cavngs





ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____
50° 100° 150° 200°

TEMP (IN) PRESS (PSI)

PH (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM _____
100 1000 10M

H₂S PPM _____

CHROMATOGRAPH PPM
1000 10M 100M

PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No. 1

Sec. 3, T18S-R47E, W8&M

Melheur Cty, Oregon

C = 14u / 60v

Lag = 67min / 62spm

TUFF: wh-lt brn-lt green; mod hd, britl, sme sft, v cohesiv, hydrat; vf grain, devitr, occ relic shards; tr spec/vvf blk mnrlsiv pale yel; minor flour
CLY & SLTST: lt grey, sme lt gy brn; mod sft, v cohesiv, mod-wl hydrat; tuff fac; int beds TUFF as abv
Samples improved

SOYH TST: lt-m gy, lt gy grn, firm, sl calc, / abnt, slt-m, ang-sbang, sbrd, tr rd, pred, cir-wh, occ frstd, qtz, cir-miky, blocky ang-sbang, flds, vcol orn red brn lith frags, / clymtx, waxy & sl calc

SLTST/CLYST/CLY: lt gy, bone-buff, sft-firm, mod-w hydr, sl-v calc, occ sec min, / abnt-tr, slt-m, mnr, coarse, sbrd-ang, cir, miky frstd qtz, diss blk organic mat, tr, wh-pink, weathered flds.

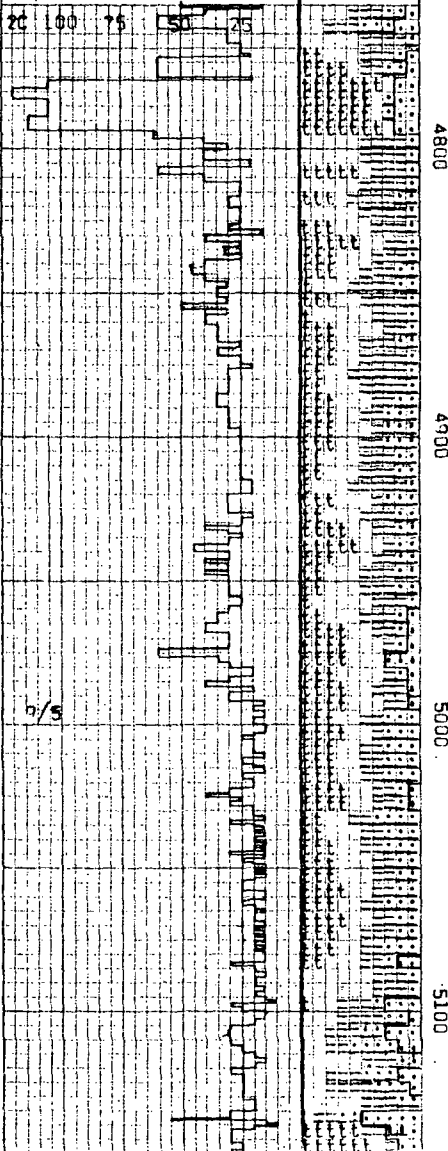
TUFF: wh-bone, buff, lt brn, ten, friable, sl calc, pred-tr, shards & shard frags, relic shards, or waxy hd devit & wh, / thin lam of dk brn organic mat, broken qtz & flds grains.

CLY: wh gy, bone-wh, sft-mushy, stky, / slt-m, mnr crss, ang-rd, cir-wh-frstd, qtz & lith frags including occ m-crss v ang blocky blk & mottled wh, aphanitic basalt.

w 78 v 47 f 8.2 fc 2/32

sd 1% gel 3/15 s 350 pH 11.0

SS: wh-lt gy; vf-f, mnr m-c; pred ang, cir qtz; abnt volcclast mat; com dk gy-brn-blk rd rk frags; sme flds alt to cly; tr oxid biot; mod pr - v pr sort; sme vague lams; hd, britl, sl-mod frib; camt/calc & sil; occ vvf marcas-pyr mic-sphr in matr; intbd lt gy CLY-SLTST
TUFF: lt brn-orang-cream; vf-m grain,



4800

4900

5000

5100

20 100 75 50 25

b/s

4, 5, 2, 1

4, 3, 2, 1



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) 50° 100° 150° 200°

TEMP (IN) PRESS. (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM 0 100 1000 10M

H₂S PPM

CHROMATOGRAPH PPM 0 1000 10M 100M

PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Gre-Ida" No.1

Sec.3, T18S-R47E, WB&M

Walheur Cty., Oregon

20 100 75 50 25

WB77 Reed 5136
45 ft / 6 1/2 hrs 5/1/71

9/6
WB78 Reed 4123
26 ft / 16 1/2 hrs
4/2/71

9/7

WB79 HTC J22
552 ft / 63 hrs
5/5/71

NOTE: DRILL RATE SCALE CHANGE

80 40 20 10

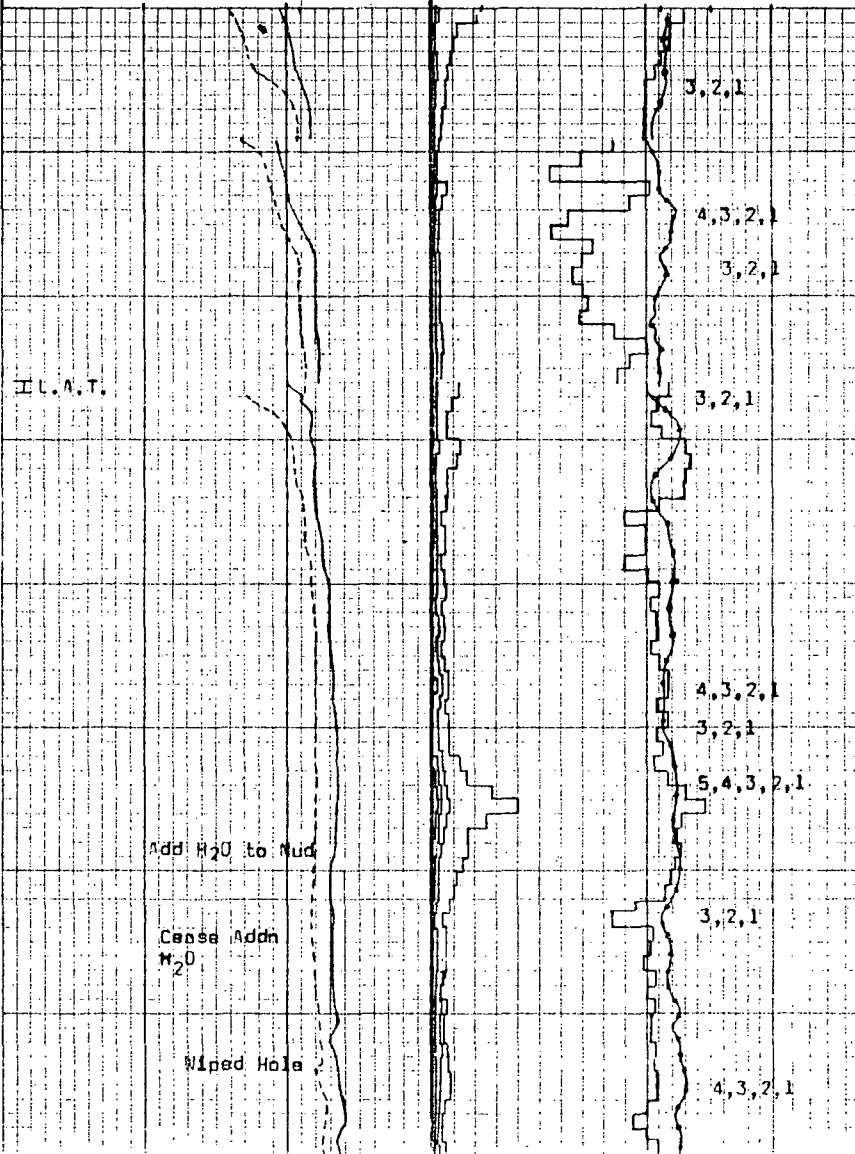
9/8

5200

5300

5400

5500



A oxid biot; no calc; pale yelo mnr flur

DIABASE: m-dk grn, aphan-phenar, anhedral-suhedral plag felds, pyrox abnt magnetite

DIABASE: m-dk gn-brn; holoxin, hypid-gran; intergran; phenar f-m grain; anhedral-suhedral plag; brn, anhedral pyrox; anhedral-suhedral magnetite; trc mag repl pyrox; occ pt alter of mafics to chlor, occ/pyr; stain of feld by chlor; trcs calc, dissem thru & along mic-fracs

w 79 v 42 fc 2/32 f 5.7

s 350 pH 11.0 sd 3/4% sol 16%

BHT Surv at 5294' 192°

SD: vf-f, abnt m, sbang-sbrd, mnr rd, prolate-bladed, pred cir, sme wh-mky, qtz, occ felds, / silt & clay mtz.

TUFF: bone-cream-wh, w ind & brit devit / relic glass shards, / v thin calc vns.

SLTST/SDYALST: lt-dk gy, gy brn mod-v w ind, firm-brit, sl fissility abnt-mnr, sec min, sl calc, / abnt-tr, silt-f, ang-sbang, blocky-prolate, sd, mnr, m-crse, disk-bladed, blk basalt, dism pyr.

SD: as above except mnr m.

w 79 v 42 f 5.8 fc 2/32

s 350 pH 11.0 sd 3/4% sol 16%

SS: wh-lt gy; vf-f, occ m-c; dom cir, ang-rd, equant-along, qtz; abnt volc clast matl lg brn shards & brn, concent band gls; spher & asst wh-bluwh, devit frags; sme blk-dk gy, tab-alg, aphanit rk frags (bslt?) minor oxid biot; trc feld, occ com blk c carb matl; sp-srd, var slty, cont/calc & sil, hd, fri, to slty & argilac, sft, v cohesiv; com sil coat of grains; trc pyr replet of matrix

TUFF: lt brn-cream-wh, sme col due to mud filtrate; var vf-c grain, v hd & brit to sl sft, & cohesiv; occ thin lam; occ micfracs fill/cir sil



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH.

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP. (OUT)

50° 100° 150° 200°

TEMP. (IN) PRESS. (IN)

GAS ANALYSIS

CO₂ PPM 0 100 1000 10m

H₂S PPM

CHROMATOGRAPH PPM

RM (OUT) MOIST. (OUT)

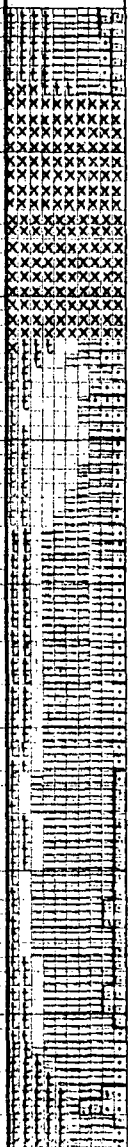
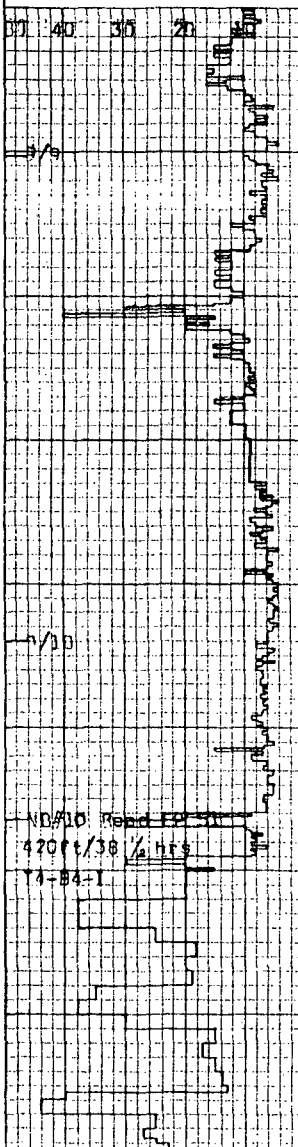
PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No.1

Sec.3, T19S-R47E., W8&M

Maiheur Cty., Oregon



DEPTH
5600
5700
5800
5900

building mud volume
by adding water &
chemicals to system

building volume.

Poor sample quality
due to cavings

4,3,2,1

4,3,2,1

4,3,2,1

TUFF: gy, blu-gy, gybrn; mod hd-hd, w lithified, sph mtx / com vvf gr xls & broken xls of qtz & sanidine(?) tr brn shards
SLTST: wh, lt gy, gybrn, tuffaceous (water lain tuff?) w thn lam in part, hd-mod sft, com vvf shards & tuff mat aligned on bdng, fis-blky, prob grad / TUFF as desc above

DIABASE: blk, dk gy; upper merg sph vvf gr, intersertal; interior f-m gy; intergran, holoxln; pred euhed-sbhd; pleg, blk-brn-brnz pyx, blk euhed-sbhd mag, blk green mat; mnr chlor; tr calc veinlet flngitr hem
w 79 v 44 f 6.0 fc 2/32
s 400 pH 11.5 sd 1% sol 17%

SLTST/CLYST/SDSLTST: grd g in samples to tuffaceous sltsts & tuffs; lt gy brn-buff, v lt gy bone-cream-wh, brit-firm-frisable, waxy, v-sl calc, dism & vn calc & pyr, / vf-slt, clr-wh-std yel qtz, occ brn & silver wh wrinkled mic, relic glass shards, mnr, pink-wh wthrd flds.
w 79 v 42 f 5.8 fc 2/32
s 400 pH 11.0 sd 3/4% sol 17%

TUFF: gy, pnkgy, blugy, mod hd, w lith, sph eshy mtx / comm vvf gr xls, pred mas & blk, grad to sbfis
SLTST & CLYST as desc above

BHT SURV at 5804 200'

SLTST: gy, gybrn, brn, mod hd-hd, blk fis, w lith, abnt tuffaceous mat incl vvf-vf gr qtz & flds, com mic-mica, sil calc in part

SS/SD: wh, lt gy, p srted, pred f gr sd / abnt eshy mtx, pred redd qtz, com brn wrthrd biot in places

C=10u/ 42 vis
LAC= 82 min/ 64 spm



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT)

50° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST. (OUT)

GAS ANALYSIS

CO₂ PPM 0 100 1000 10000

H₂S PPM 0 10 100

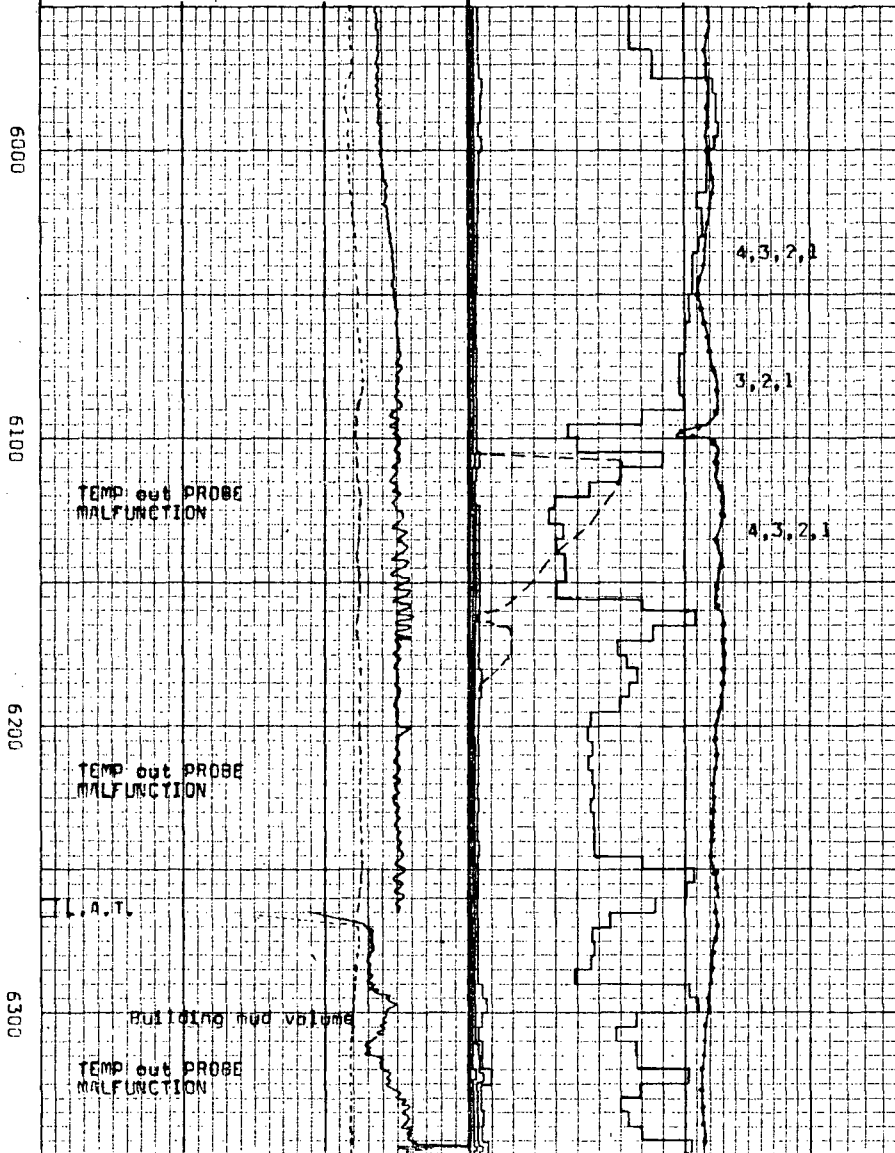
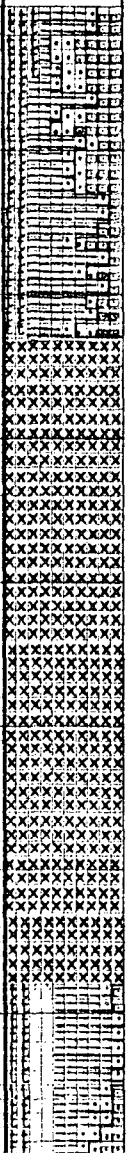
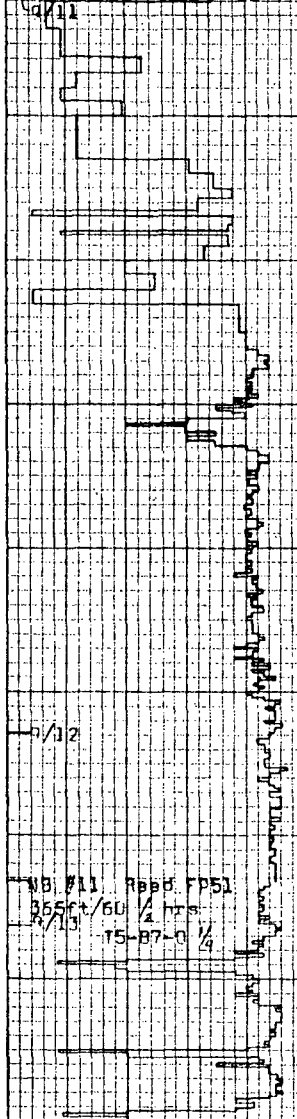
DITCH GAS
CHROMATOGRAPH (PPM)

0 1000 10M 100M

PETROGRAPHY AND REMARKS

ORE-IDA FOODS
"Ore-Ida" No. 1
Sec. 3, T18S-R47E; W&M
Malheur County, Oregon

40 30 20 10



TUFFACEOUS ss/sd: wh, lt gy, mn, gr, brn, mod-w lith, p srt, f-m sbrdd sd gr in ash & silt mtx, mtx com alt to cly, pred clr sbang-ang qtz, wh sbang flds, occ-com brn-brnz wrthd biot, com blk sbrdd mfc min, rr microxln pyr aggregates, occ relict shards, rr c gr sd & granules of rdd wh-frstd qtz

w 77 v 43 f 5.8 fc 2/32

s 400 pH 11.0 sd 3/4% sol 17

DIABASE (?) : lt gy gn- lt bl gn, lt-m gy gn, gy brn, mottled brn, bone, buff, wh, hydrothermally altered to unaltered, holoxin-phaner, vf-m, grs, sbhd-anhd, pred, vf-m, holoxin-phaner, anhd-sbhd, flds, sbnt, f-m, sbhd-anhd, magnetite, f-m, sbhd-anhd, pyroxene; diabase shows hydrothermal alteration (sausurization) to lt gn, sft, waxy, cly min, in finer grained to holoxin, anhd zones / dsm pyr lesser degree of saus as flds become larger grained, magnetite & pyroxene appear relatively unaltered.

RAN B.H.T. survey at 6200': sat 30min; 230°

C=18 u/ 41 v

Lag=81 min/ 65 spm

6266' 1'00'

w 77 v 40 f 5.6 fc 2/32

s 400 pH 11.5 sd 1% sol 17%

SLTST: dull rdbrn, buff, lt brn; hd, w lith; pred mas & nonfis / mnr sbfis; tuffaceous in part / com vvf gr qtz & fspr (san ?) xls; com zns alt to wh cly; mnr tuffs & alt tuffs



ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____

50° 100° 150° 200°

TEMP (IN) PRESS (IN) _____

RM (OUT) MOIST. (OUT) _____

GAS ANALYSIS

CO₂ PPM _____
0 100 1000 10M

H₂S PPM _____
0 10 100

DITCH GAS CHROMATOGRAPH (PPM)

0 1000 10M 100M

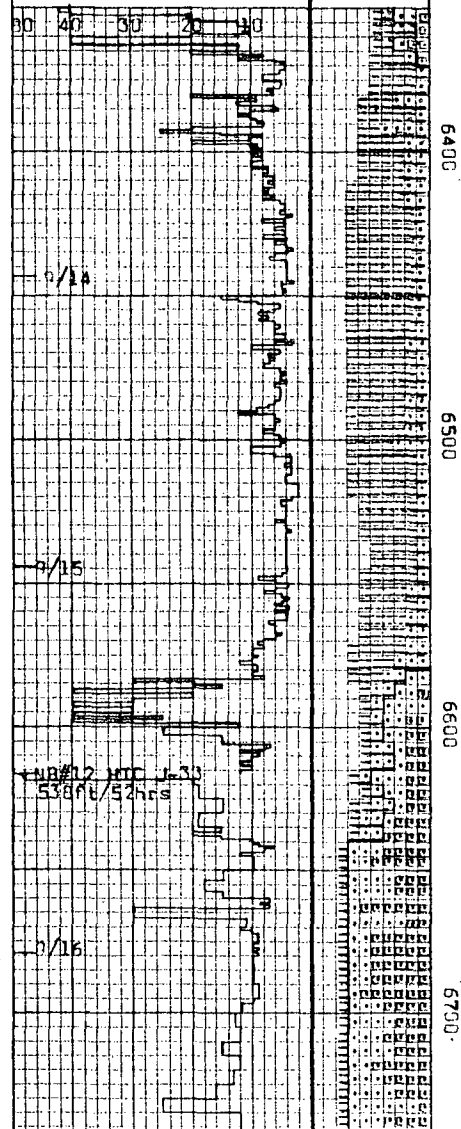
PETROGRAPHY AND REMARKS

ORE-IDA FOODS

"Ore-Ida" No. 1

Sec. 3, T18S-R47E; W8AM

Malheur County, Oregon



NOTE: TEMPERATURE SCALE CHANGE

100° 150° 200° 250°

TEMP out PROBE MALFUNCTION

NOTE: CALIBRATION TEMP SYSTEM

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

TEMP out PROBE MALFUNCTION

NOTE: TEMP out PROBE FUNCTIONAL AND RECALIBRATED

4,3,2,1

5,4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

4,3,2,1

C=30 / 45 v

Lag=74min / 65 spm

SLTST/SOYSLTST/SS: lt gy brn-brn tan-buff, bone, wh, v hd tuffaceous sltst- firm or friable slts, hd wh ss; sd vf-f, ang, clr-miky qtz, / abnt lith frags.

w 80 v 42 f 6.0 fc 2/32

s 600 pH 11.0 sd 1% sol 17%

SLTST/CLYST/SOYSLTST: lt gy brn, lt brn-tan buff, bone, v hd, non calc, v w ind & sil, mnr, sec min, / abnt, sd & slt; slt-vf, sme, f mnr, f-crs, ang-rd, prolate-bladed clr-miky-wh, qtz, mnr, f-crs, ang-sbrd, brit blk basalt frags.

w 60 v 43 f 5.8 fc 2/32

s 600 pH 11.0 sd 1% sol 17%

SLTST/CLY: l-m gy, gybrn, tan, hd to v hd, pred non-calc, siliceous, pred mas & nonfis/ mnr sbfis, com micro mica, com vvf-vf gr sbang qtz; mnr ss/sd / f gr redd basalt frags

SOYSLTST/SD/SS: wh-bone, buff, w ind-uncon, vf-slt, abnt f, mnr m, ang-sbrd, pred qtz, slt flds, mnr mafic grs, calc & sil cmt & wh kaolin cly mtx.

C=30 / 41 v

Lag=75 min / 63 spm

w 80 v 41 f 5.8 fc 2/32

s 600 pH 11.0 sd 1% sol 17%

SS: wh, lt gy, bone, mas, hd, mod-p srt'd, vf-m, pred clr ang qtz, clr-wh-cloudy, ang sbrd flds, blk ang mfc mins in hd stly siliceous mtx, tr pyr & wthrd biot.

BUILDING MUD VOLUME

TS 15v



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____
50° 100° 150° 200°

TEMP (IN) PRESS (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM _____
0 100 1000 10M

H₂S PPM _____
0 10 100

DITCH GAS _____
CHROMATOGRAPH (PPM)

0 1000 10M 100M

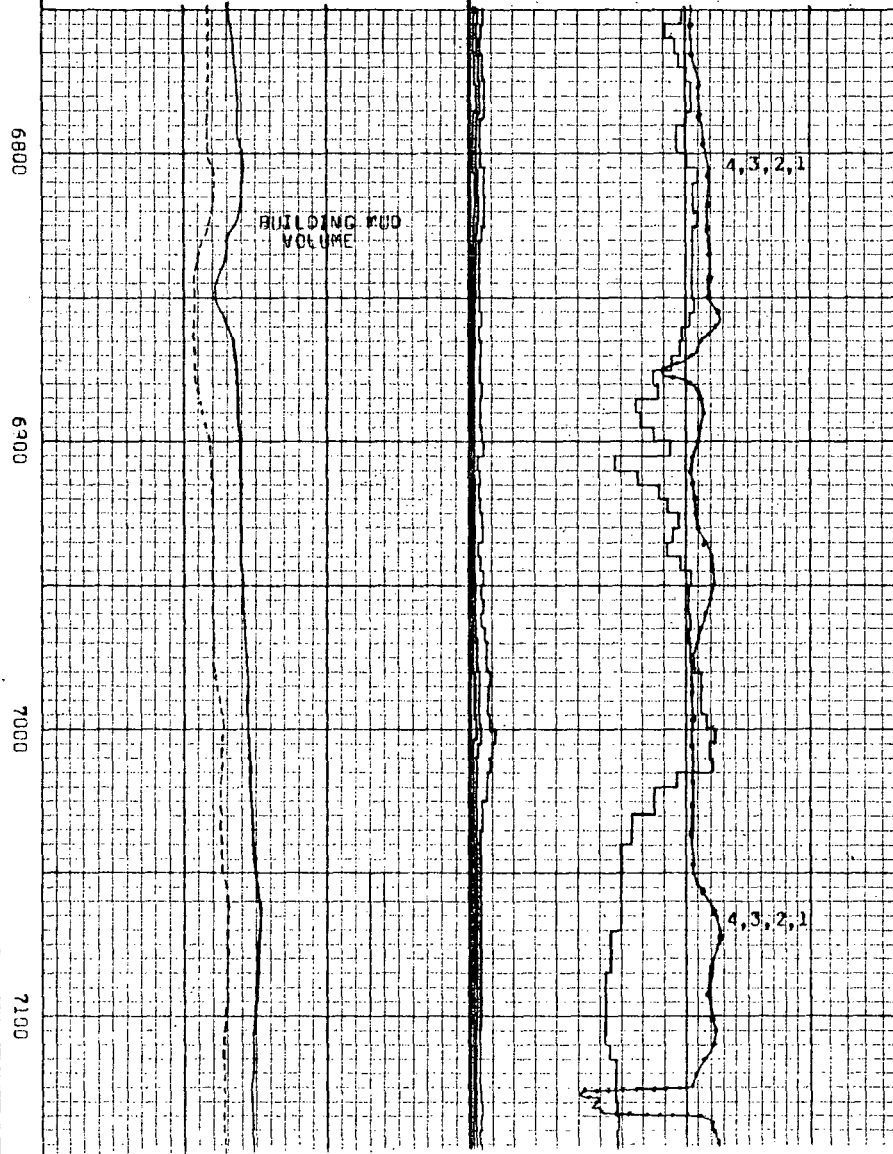
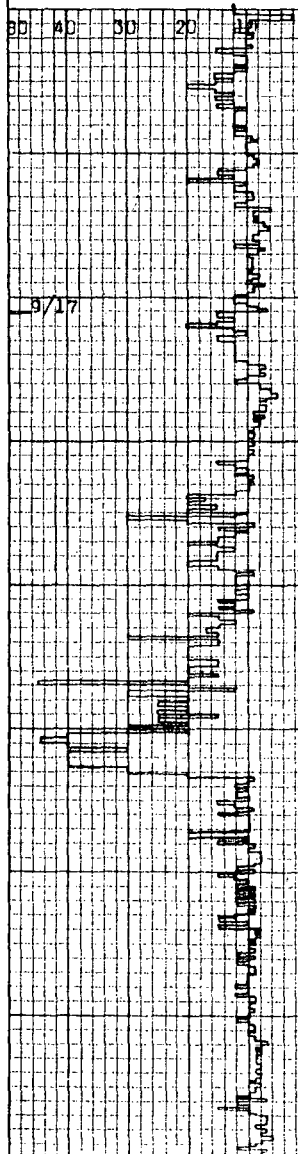
PETROGRAPHY
AND REMARKS

ORE-IDA FOODS

"Ore-Ida" No. 1

Sec. 3, T18S-R47E; W&M

Malheur County, Oregon



SS/SD: wh-hone, vf-f, ang-sbang, hd, w ind, abnt f-m, sbrd-rd-sbang, uncon, pred clr-cloudy-wh qtz, wh wthrd flds, mfc grs, lith frags, mnr pyr, tr wh mica, / siliceous & calc cmt, vns, dism, wh kao cly mtx & slit; tr dead oil stain, no flor, v sl streaming cut, on m sbrd qtz & flds grs & in v thin blk-dk brn seams. SLTST: lt brn-gy brn, firm-frble abnt sec min, sl calc, micro-mica, pyr dism & in v thin vns.

SS: wh, lt gy, mot wh & lt brn; hd, w ind; pred vf-f gr / mnr m gr, mod srt; sbrd-sbang; abnt clr-wh qtz, com wh fspar & slt fspar, com sbrd blk-mfc mins, tr rdd dk gy-blk lith frags, rr wthrd mices, occ v thn vns of blk carb mat; hd siliceous cmt

C=llu / 43 v
Leg=77 min / 64 spm
w 80 v 43 f 5.8 fc 2/32
s 600 pH 11.0 sd 1% sol 17%

SD/SS: wh-ltgy-m gy, lt brn, pred uncon, sme hd ss, vf-f, mnr f-m, ang-sbrd, clr-wh-miky, qtz, wh wthrd flds, mafic mins, / calc siliceous vn & dism & mnr cmt, slt & cly mtx.

DIABASE: lt-dk grn, pred ltgn-clr sl-mod altered flds, pyroxene magnetite, holoxln-phaner / slt of flds to sft gn waxy min in finer xln flds.

BASIC INTRUSIVE: blk, v dk gy, grrn; dense, hd; mas; holoxln; var textures incl f-vf / mnr m gr diabasic-subophitic, mnr f gr porphyritic texture / aphanitic grndmss, mnr trachytoid texture; pred euhed wh plng, blk-brn sbhed-anhed pyx, euhed-euhed-gran mag, tr microxln



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DEPTH

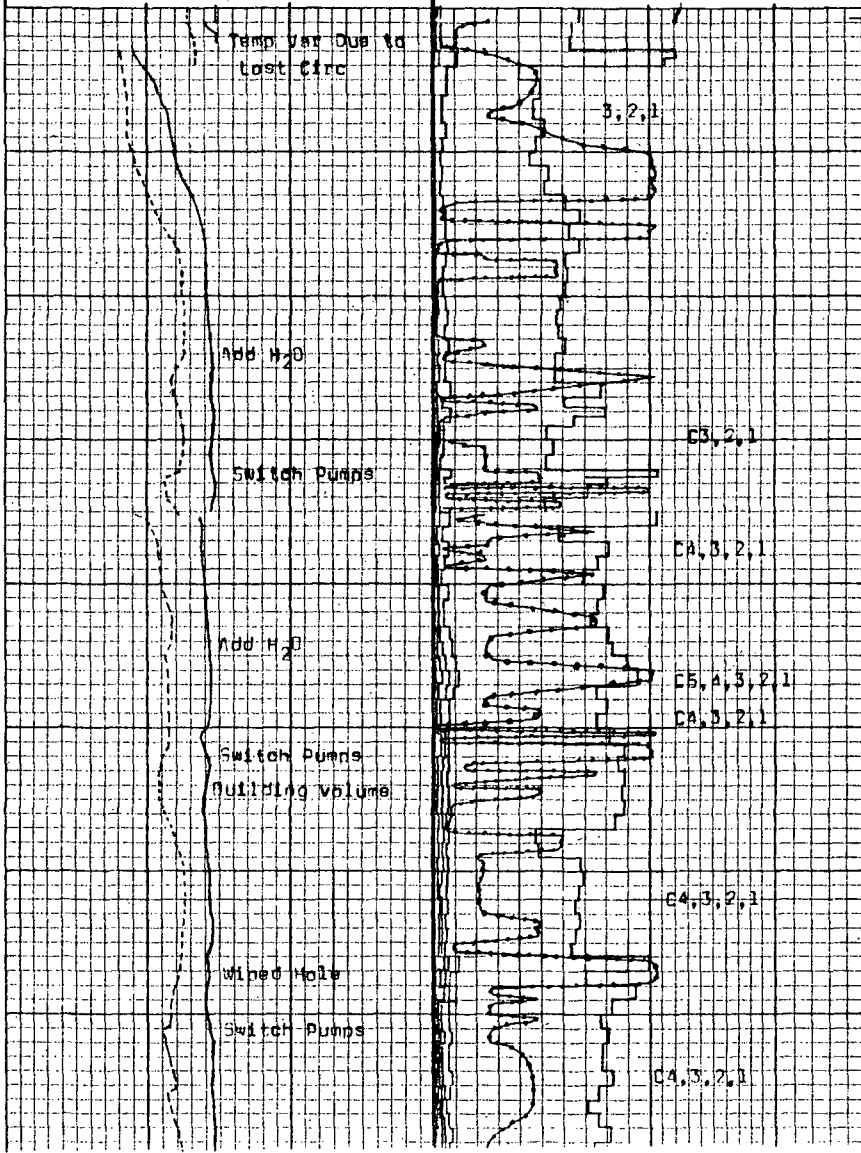
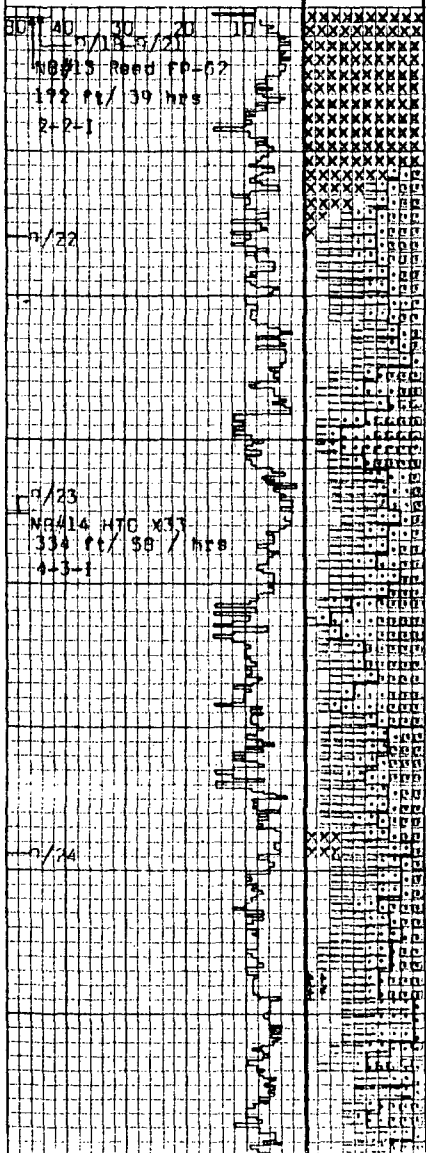
DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS		GAS ANALYSIS	
FLUID: MUD <input checked="" type="checkbox"/> AIR <input type="checkbox"/>		CO ₂ PPM _____	
TEMP (OUT) _____		0	100 1000 10M
100° 150° 200° 250°		H ₂ S PPM _____	0 10n 100
TEMP (IN) <input type="checkbox"/> PRESS (IN) <input type="checkbox"/>		DITCH GAS _____	
RM (OUT) <input type="checkbox"/> MOIST. (OUT) <input type="checkbox"/>		CHROMATOGRAPH (PPM)	
		0	1000 10M 100M

PETROGRAPHY AND REMARKS

ORE-IDA F0005
"Ore-Ida" No. 1

Sec. 3, T18S-R47E; W8&M
Malheur County, Oregon



Run Walex OIL, FDC-CNL, GR, Frac, Mic-Seis, Veloc, Celip & Temp Logs
LOST CIRCULATION at 7169'; mixed Lost Circ Matl & decr mud wt

Mod poor sample; abnt cavings
SLTST: lt gybrn, lt rdbrn, buff, lt gyhd, w indur; pred mas / mnr sbfss; non calc; com vf-m sd gr incl qtz, fspar (?), mica, & blk mfc mins or lith frags; rr-occ v thin vns of blk carb mat; etc / above igns rocks v indistinct
w 82 v 42 f 5.9 fc 2/32

s 650 pH 11.0 sd 3/4% sol 19%
SS: wh, mnr lt gy-gybrn; vf-m, occ c pred w red-sbrdd wh-cir grns of qtz, alt (& poss fresh) feld, & other volc-clast matl v difficult to distinguish; sme blk-dk brn, redd-ang, sbhan, volc?rk frags; occ sme rd, blue frags; occ sme sft blk, c carb matl; var mod poor-v poor sort, mod prefer orient of elong grs; mnr cly-slt mtx; cent pred sil / irreg, patchy calc & sme grs reid by calc; thn beds-lams SLTST as abv
C= 20u / 42v
Layr 75min / 64spm

SS: as abv, incr in crs-v crs sd grns & carbonac matl
SLTST: lt brn, lt rdbrn, gybrn; hd, w indur; pred mas / mnr sbfss; occ f- vf gr sd / occ imbrication of elong sd grs; rr v thn lam / blk carb matl; micro mica in part

SS: wh, lt gyhd, w indur; mas; mod-p srted, pred vf-m gr / rr c-v c sd & granules; redd-sbangan abnt framework grs incl wh-cir qtz, wh fspar & all fspar, blk mfc mins or lith frags (?), v rr SLTST lith frags, occ blk carb mat in v thin lam; pred siliceous cmt / mnr cly & slt, tr calc
w 82 v 43 f 5.2 fc 2/32
s 700 pH 11.0 sd 1% sol 19%

CLY & SLTST: lt gy-gybrn-brn; mnr wh; mod-v soft, well hydrat, mod-v cohes; intragrd; sme sl-mod sdy/ qtz, volc-clast matl, occ com imbricate platy blk carb matl; cont SS as abv; trcs crs xl mnr calc vlns & other color



ENERGYLOG

GEOHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) _____

100° 150° 200° 250°

TEMP. (IN) PRESS. (IN) _____

RM (OUT) MOIST. (OUT) _____

GAS ANALYSIS

CO₂ PPM _____

H₂S PPM _____

DITCH GAS
CHROMATOGRAPH PPM _____

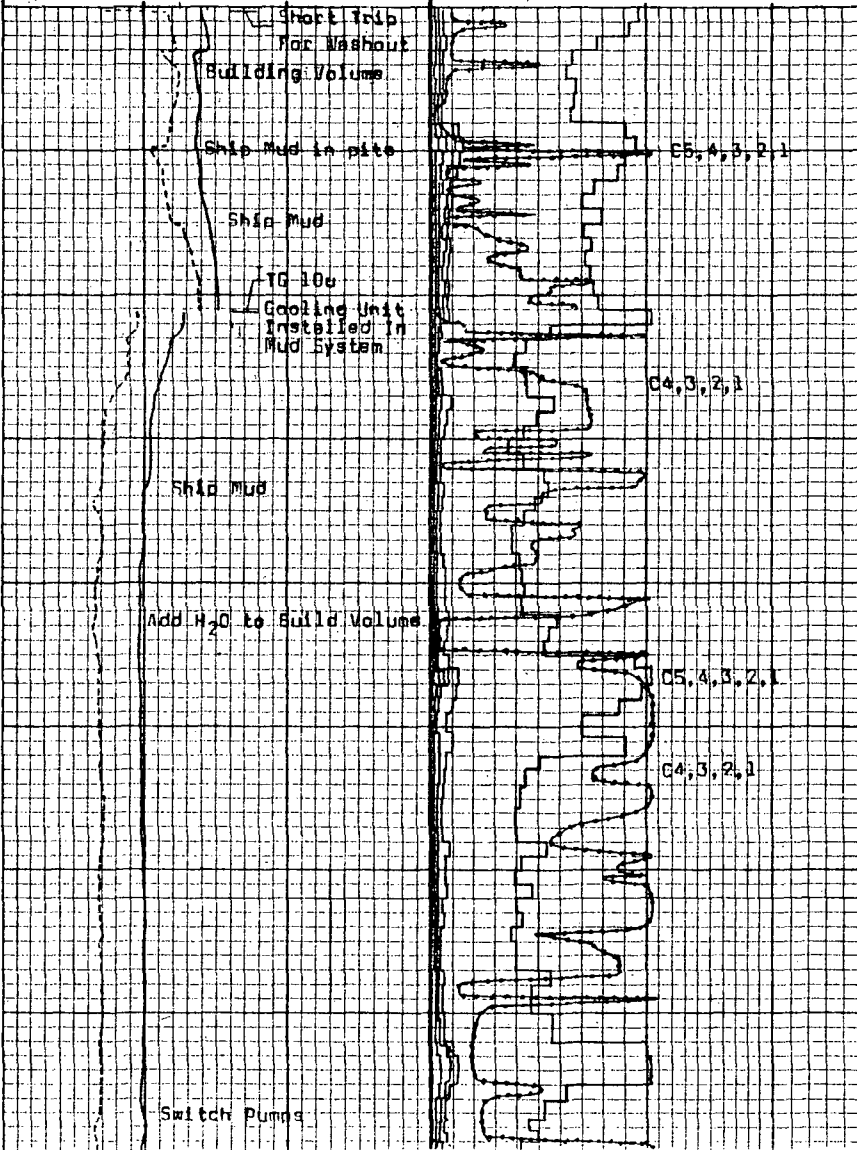
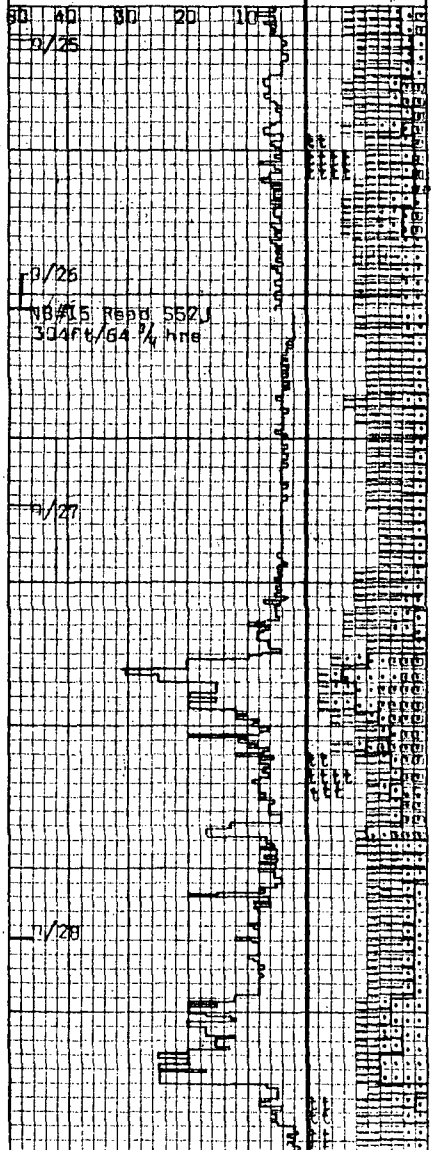
PETROGRAPHY AND REMARKS

"ORE-IDA FOODS INC.

"Ore-Ida" No.1

Sec.3, T18S-R47E, W8&M

Malheur Cty., Oregon



CLYST/SLTST:lt gy-lt gybrn;mod hd-v sft,CLYST sol-v sol;pred mas & nonfla-sbfis;micromica in part;sd in part
w 82 v 42 f 5.2 fc 2/32
s 700 pH 11.0 sd 1% sol 19%

TUFF:wh-v lt brn-cream;mod-v sft, cohesive-sl britl;argil;vf sd size shards & sme qtz;trc c anhd qtz
CLY-SLTST:lt gy-gybrn-brn;mod-v sft, wl hydrat,sl-mod cohesive;intrgrdgi;sl-mod micac-micromicac;occ com of carb mat;qtz slt & vf sd;thn lam;gd imbricat of platy carb matl & micac;com vf calc dissem thru;trc pyr
w 82 v 45 f 5.2 fc 2/32
s 700 pH 11.0 sd 1% sol 19%

CLY:lt-m gy,v sft,w hydrated,sl-mod cohes,mnr qtz sd & slt

CLY-SLTST:lt-m gy,lt-m gybrn,mod hd-hd,w indur;sl calc in part;mas-sbfis;com vf gr mica & micro mica;tr blk carb mat;tr microxln pyr
w .82 v 43 f 5.0 fc 2/32

s 700 pH 11.0 sd 1% sol 19%
SS:wh-lt brn;vf-f,occ/m-vc;pred ang-sbang,clr qtz & asrt volc-clast matl;wh,ang,alt fld,vgt glassy-davit frags & shards;sme brn-blk, sbang-rdd rk frags & hvy mrlst;occ com-sbnt blk,f-c,wl imbricated carb matl;vp srt;sl-mod slty & argl,grads to sdy sltst;sl-mod frb mod cement/sil;trcs vf calc;tex frag obscured by crushing action of drill bit

CLY:lt gy,wh,sl frm-sft,mod sol, sl calc,com qtz sd & slt
SS:f-vc, pred sbnd-wl rd wh-lt bl-brn sil?volc rk frags & qtz;uncent, disagg;spheroid calc concret

w 83 v 42 f 5.0 fc 2/32
s 750 pH 11.5 sd 1% sol 20%

CLY-CLYST-SLTST:lt brn-gybrn-gy-brn;blu;gy;v sft,hydrat,cohesive to firm;britl;tuffac;qtzosa;com crs xln calc veins,micxl spher calc concret,c xln lvs? or zeol? vns;lime-bear stain

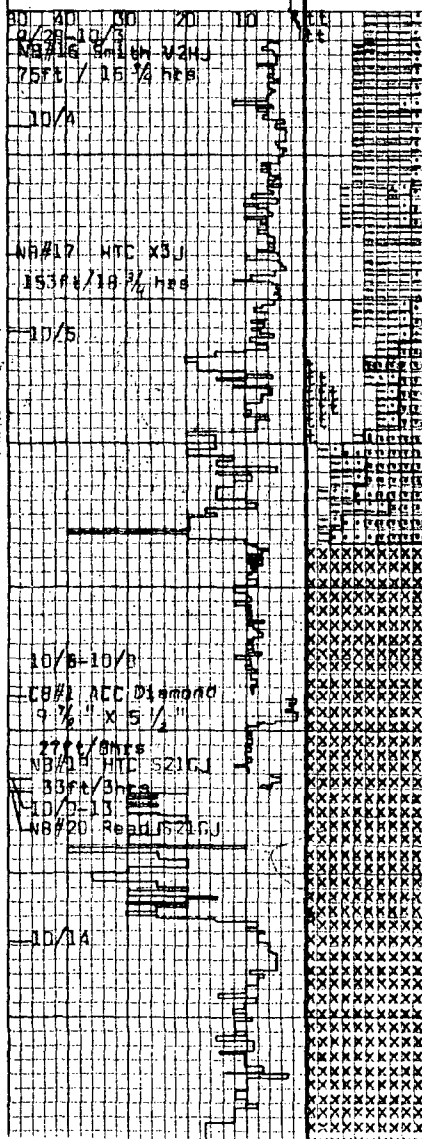


ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR)
AND DATA

LITH



DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUDE AIR

TEMP (OUT)	100°	150°	200°	250°
TEMP (IN) <input checked="" type="checkbox"/> PRESS (IN) <input type="checkbox"/>				

GAS ANALYSIS

CO₂ PPM

100	1000	10000
-----	------	-------

H₂S PPM

100	1000	10000
-----	------	-------

DITCH GAS CHROMATOGRAPH PPM

1000	10M	100M
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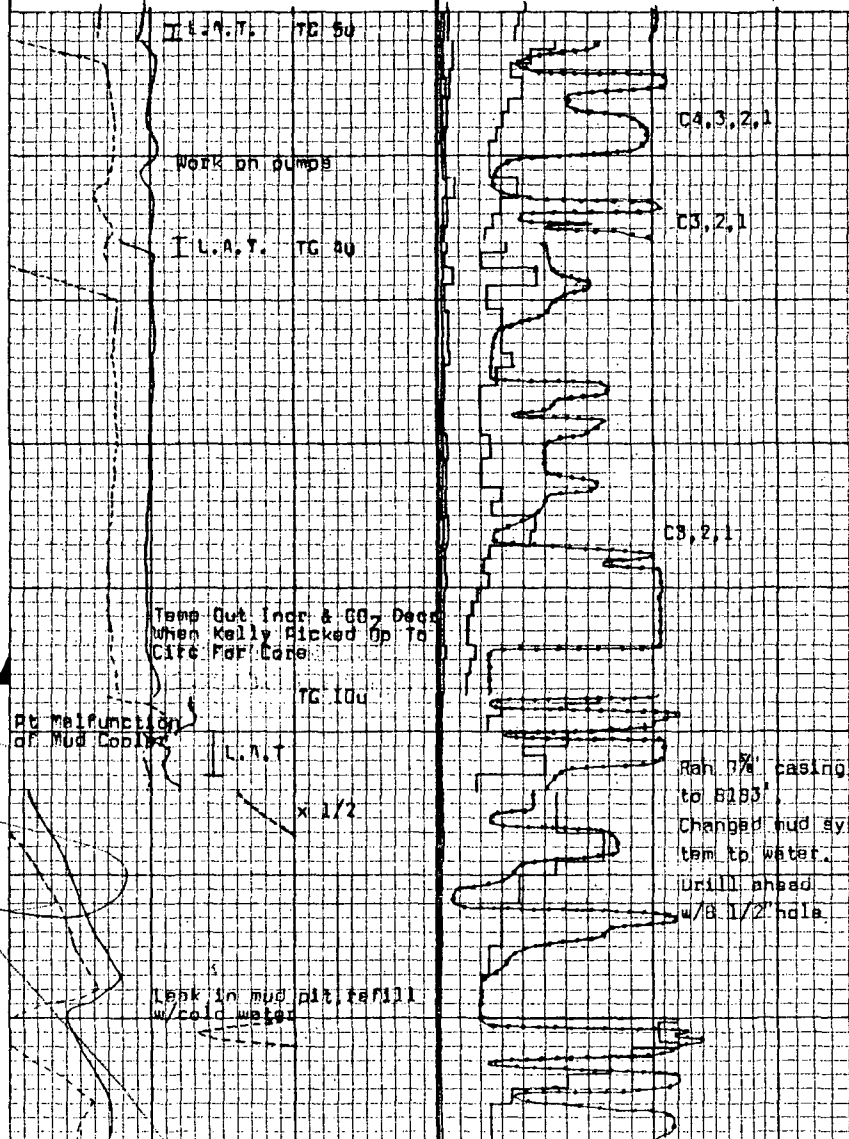
DEPTH

8000

8100

8200

8300



PETROGRAPHY AND REMARKS

DRE-IDA FOODS INC.

"Dre-Ida" No.1

Sec.3, T18S-R47E, W8&M

Malheur Cty., Oregon

TWIST OFF at 7960'; Ran WELEX DIGL, CAVL, FF-MSP; Dip, Temp Surv, & CONL-GR at 7960
SLTST: lt gy, frm, non calc, grds to lt gy mod sol CLV. SLTST: dk gy, occ lt brn, mod hd, brit, sdy, occ calc cmt, tr carb mat.

w 82 v 45 f 5.2 fc 2/32
s 750 sd 1 sol 19 pH.11.0

C=5u / 45v
Lag=118min / 64spm

SS: wh, lt gy, vf-m, p brtdiv fri; pred ang-sbang clr qtz & asart volc-clast mat; wh, ang, alt fld, vgt frags & shards, occ hvy mnrls.
SS: wh-lt gy-lt brn; vf-f, grad to sdy sltst; mnrl/m-c gns; pred ang-sbang, clr-wh, equant qtz & ang-sbrd. wh, equ, alt fld; sme dk gy, sbrd, srtab rk frags; occ com-abnt f-c blk, frib carb mat; tr shards; mod pt-v pr sort; mod-v frib; all cmt; tra vf diam calc; tr pyr; thin bed-lam CORE # 1 B188 - B215 rec. 27
ALTERED DIABASE: lt-m gygn-gn, loc gybrn; vf-f gr phaner, holoxin, intr gran-ophitic; pred euhed-sbhed plag & brn, sbhed pyrox; mnrl euhed magnetite; pred sl-mod alt; gn stng of plag & chlor of pyrox; sme plag v sauss; occ com pyr repleg xls; fracs-micro faults com; freq fill / m-dk gn, sft, waxy, chlor or serp/sknads; & wh, acic-pris, com radiat zeol?; rr fracs open/lining of clr, drusy qtz; sme micxl calc in fracs, also c xl calc; one lt gn aphan microclike / sme on alt phenos; offset by later fracs sme drusy qtz cav pt fill/glaeonite? blk sft mat/yellowh floor & cut fluor qtz has bluw h floor

Ran 7% casing to 8133'
Changed mud eye tem to water.
Drill ahead w/B 1 1/2" hda.

ALTERED DIABASE; gy-blk, v dk gn, vf frac, occ drsy, amygdaloidal w/chal?, calc, gen halo-crypto xtal, occ aph, gen euh-subhedral, pred fld, alt mfc mins, mod-abnt ilm, mag, mnrl-mod calc



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT) 100 150 200 250

TEMP (IN) PRESS (IN)

RM (OUT) MOIST. (OUT)

GAS ANALYSIS

CO₂ PPM 100 1000 10M

H₂S PPM 100 1000 10M

DITCH GAS CHROMATOGRAPH PPM 1000 10M 100M

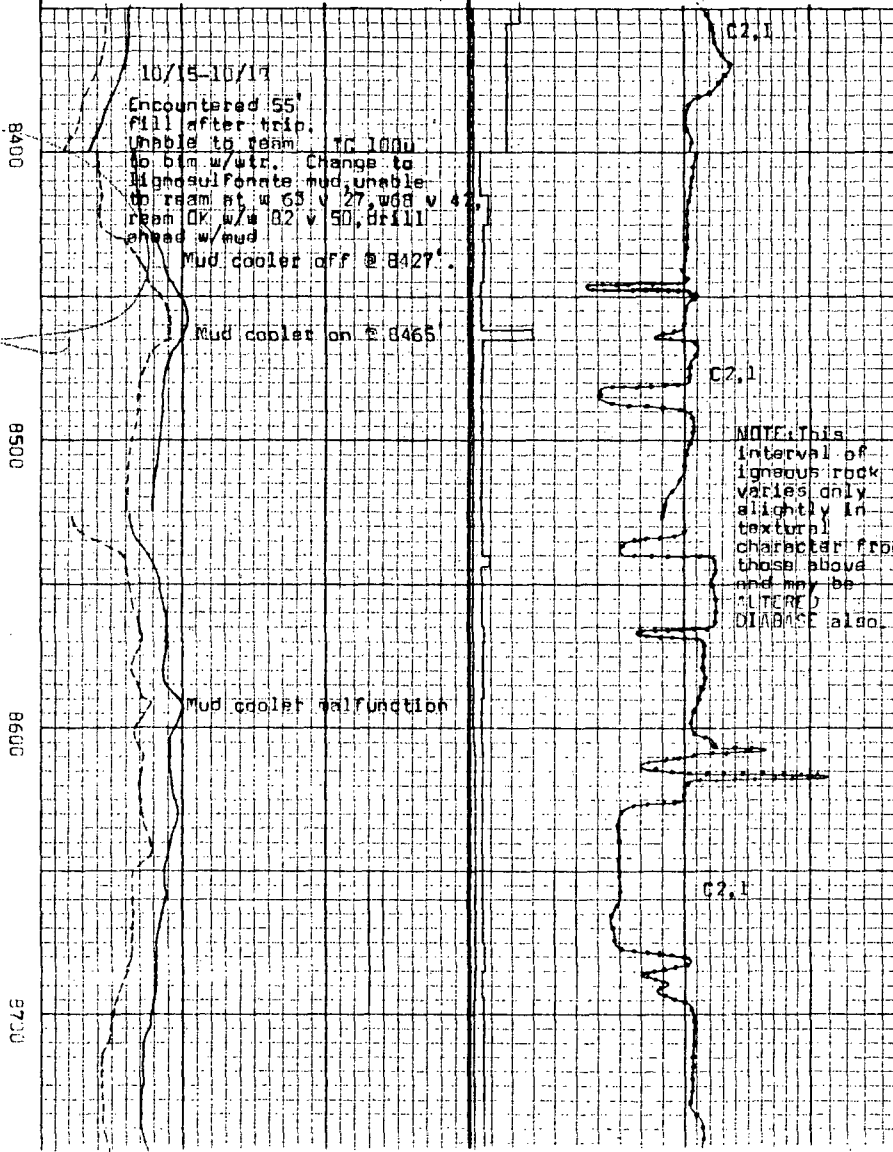
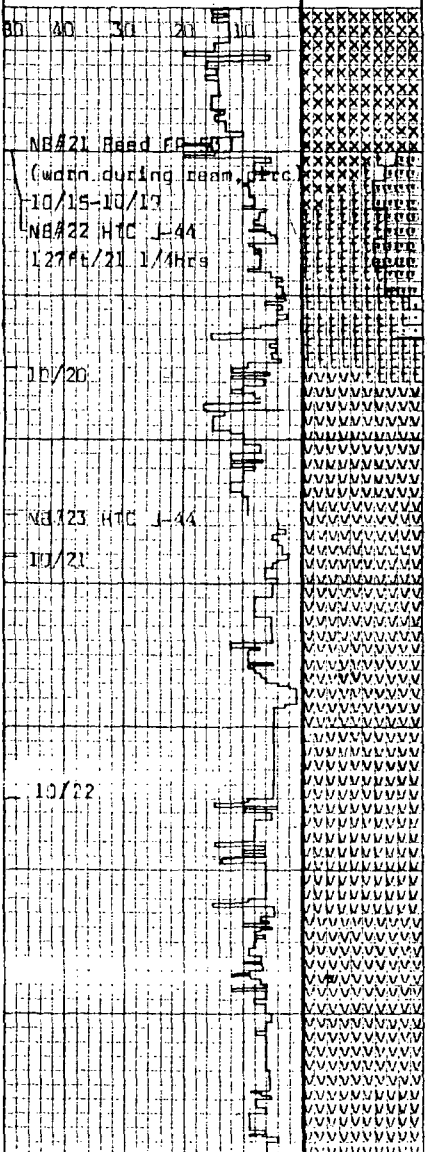
PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.

"Ore-Ida" No.1

Sec 3, T18S-R47E, WB&M

Malheur Cty, OR



ALTERED DIABASE: similar to upper section w/ decreasing grain size and increased chlor mine & aph grndmass

w 82 v 47 f 5.2 fc 2/32 s 600 pH 11.2 sd 1% sol 19%

TUFF: wh-bone, lt gy; hd-v hd, w ind & brit, mas-concord frac; vf-f w/ occ broken xls of qtz & sanidine (?); intbd w/ TUFFACEOUS SS: lt gy-dk gy; frm-mod had, com brit; occ fr: vf-m, ang-sbang, pred f ang qtz, tuff frags, mnr maf minrls.

ALTERED BASALT: dk gn, vf-f, occ m gr, gen phaner, mnr aph, gen subnph, mod amt dk brn-gld pyrox, tr-abnt wh, alt felds, abnt chlor grd gn, meta mins, gd tr ilm, magn, mnr sec pyr

Am 1.1 RF 1.1 T 142

w 93 v 43 f 5.2 fc 2/32 s 600 pH 11.0 sd 1% sol 19%

ALTERED DIABASE also: ALTERED BASALT: dk gn, lt blk; f-m gr, occ c gr; gen phaner, granular tex, com subnph, occ glay mtx; pred dk feld (labradorite?), dk brn-gld pyrox, com magn, ilm.

w 85 v 48 f 5.0 fc 2/32 s 500 pH 11.3 sd 1% sol 20%

ALTERED BASALT: as abv w/ inc alter grs & frac fill: chlor, zeol

C=100g / 4lv Lag=55min / 50spm



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

FLUID: MUD AIR

TEMP (OUT): _____

100 150 200 250

TEMP (IN) PRESS (IN)

RM (OUT) MOIST (OUT)

GAS ANALYSIS

CO₂ PPM _____ 100 1000 10M

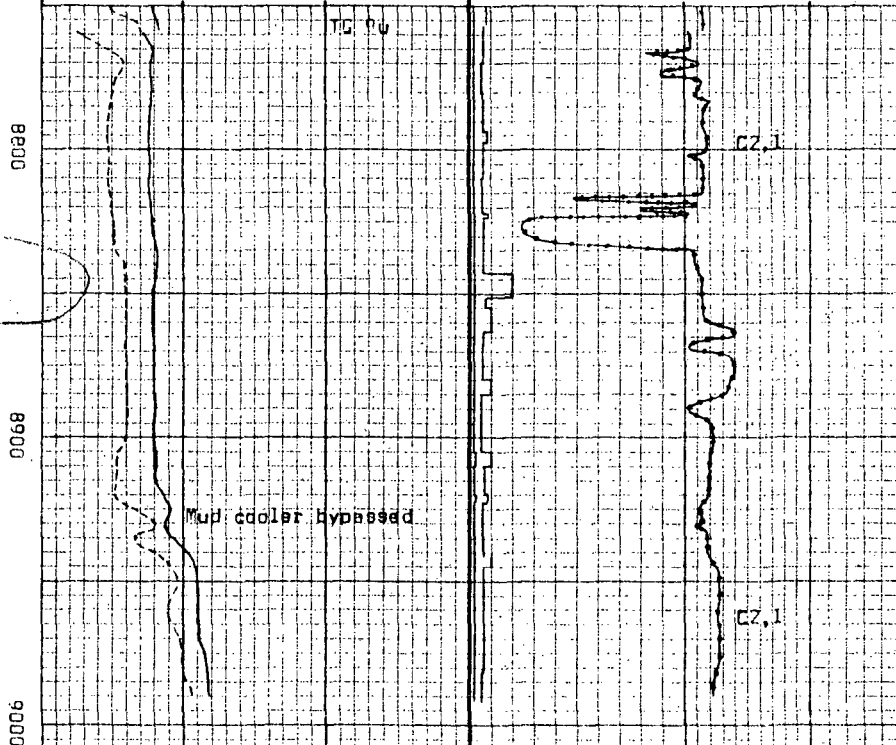
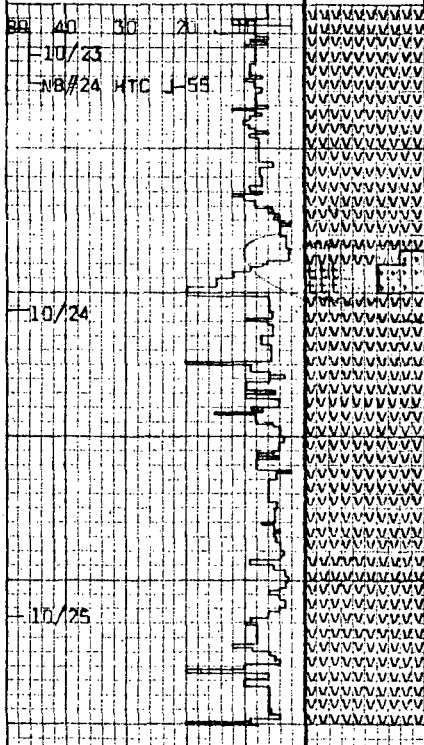
H₂S PPM _____ 100 1000 10M

DITCH GAS CHROMATOGRAPH PPM _____

1000 10M 100M

PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.
"Ore-Ida" No.1
Sec 3, T18S-R47E, W8&M
Malheur Co, OR



w 84 v 46 f 5.0 fc 2/32
s 500 pH 11.2 sd 1% sol 17%

ALTERED BASALT: dk gn, charcoal;
vf-m gr phaser, granular tex, com
suboph, occ glsy mtx; pred dk feld,
pyrox, com magn, ila; inc alt gr &
frac fill: chlor, zeol, mn calc.

Bm .73 Bf .66 T 141

TUFFACEOUS ss; lt gy-gn, wh-gn, v
hd, brit-soft, fri, vf-f gr, abnt-v
abnt wh tuff, mtx, shang-rd wh fld
clt-gy Qtz, sme chlor, gnstr, zeol
alt, tr glass shards, mafic mins

w 84 v 42 f 5.0 fc 2/32
s 600 pH 11.5 sd 1% sol 20%

ALTERED BASALT: gen as above, dk
gy-gn, f gr, gen holoxtal, sme w/
aph gmass, euh-subh fld, pyrox,
gen w/mnr-mod chlor, zeol alt,
mnr calcic, felsic veins



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

GAS ANALYSIS

FLUID: MUD AIR

CO₂ PPM

TEMP (OUT)

100 1000 10M

100 150 200 250

H₂S PPM

100 1000 10M

TEMP (IN) PRESS (IN)

DITCH GAS

CHROMATOGRAPH PPM

HM (OUT) MOIST (OUT)

1000 10M 100M

PETROGRAPHY AND REMARKS

ORE-IDA FOODS INC.
"Ore-Ida" No.1
Sec 3, T18S-R47E, W8&M
Malheur Co, OR

10/23
NB#24 HTC J-55
270ft/ 50 3/4hr

10/24

10/25

NB#25 HTC J-44

10/26

8800

8900

9000

9100

TC 96

CZ,1

CZ,1

CZ,1

Mud cooler bypassed

Mud cooler on line

Mud cooler malfunction

w 84 v 46 f 5.0 fc 2/32
s 500 pH 11.2 sd 1% sol 19%

ALTERED BASALT: dk gn, charcoal;
vf-m gr phaner, granular tex, com
suboph, occ glsy, mtx; pred dk fald
pyrox, com magn, ilm; inc alt gr &
frac fill: chlor, zeol, mn calc.

qm .76 rf .66 T 141

TUFFACEOUS: ss:lt gy-gn, wh-gn, v
hd, brit-sft, fri, vf-f gr, abnt-v
abnt wh tuff, mtx, sbeng-rd wh fld
clr-gy, atz, sme chlor, qnstr, zeol
alt, tr glass shards, mafic mins

w 84 v 42 f 5.0 fc 2/32
s 600 pH 11.5 sd 1% sol 20%

ALTERED BASALT: gen as above, dk
gy-gn, f gr, gen holoxtal, sme w/
aph gmass, euh-subh fld, pyrox,
gen w/mnr-mod chlor, zeol alt,
mnr calcic, felsic veins

w 84.5 v 50 f 5.0 fc 2/32
s 600 pH 11.2 sd 1% sol 20%

C=20 units / 48v
Lag=55mins / 64spm

BASALT: blk, dk gy, v hd-cpct, brit,
aph w/vf euh plag phenocryst,
poss vesic w/rd-brn calc amy

w 84.5 v 47 f 5.0 fc 2/32
s 600 pH 11.5 sd 1% sol 20%



ENERGYLOG

GEOTHERMAL

DRILL RATE (FT/HR) AND DATA

LITH

DEPTH

DRILLING FLUID PROPERTIES

PHYSICAL CHARACTERISTICS

GAS ANALYSIS

PETROGRAPHY AND REMARKS

FLUID: MUD AIR

CO₂ PPM

ORE-ID# FOODS, INC

TEMP (OUT)

100 1000 10M

"Ore-Ida" No. 1

TEMP (IN) PRESS. (IN)

H₂S PPM

100 1000 10M

Sec 3, T19S-R47E; W84M

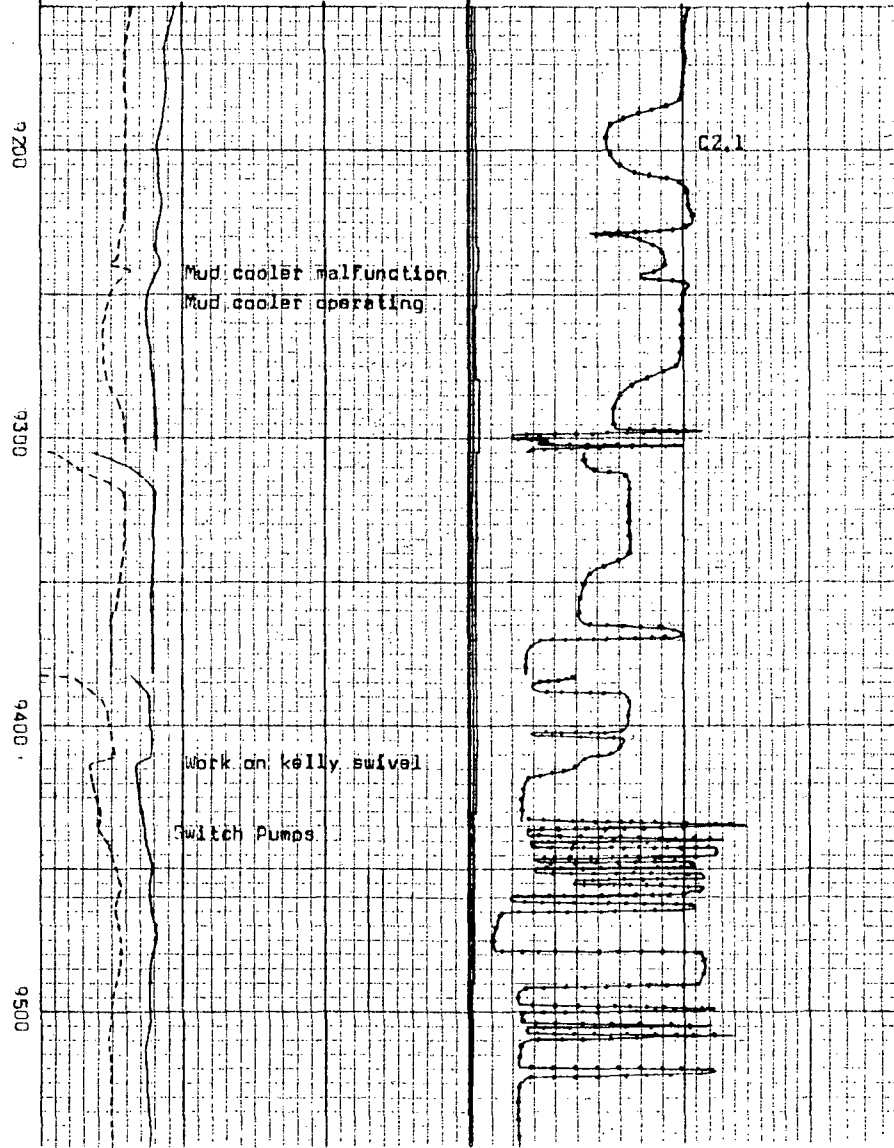
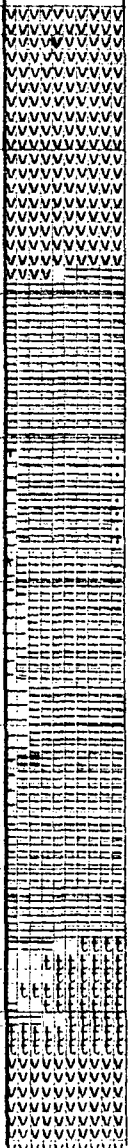
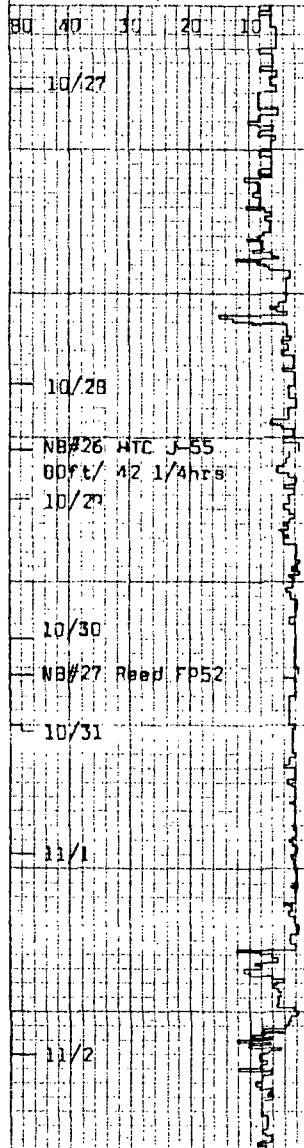
DITCH GAS

Malheur Cnty, OR

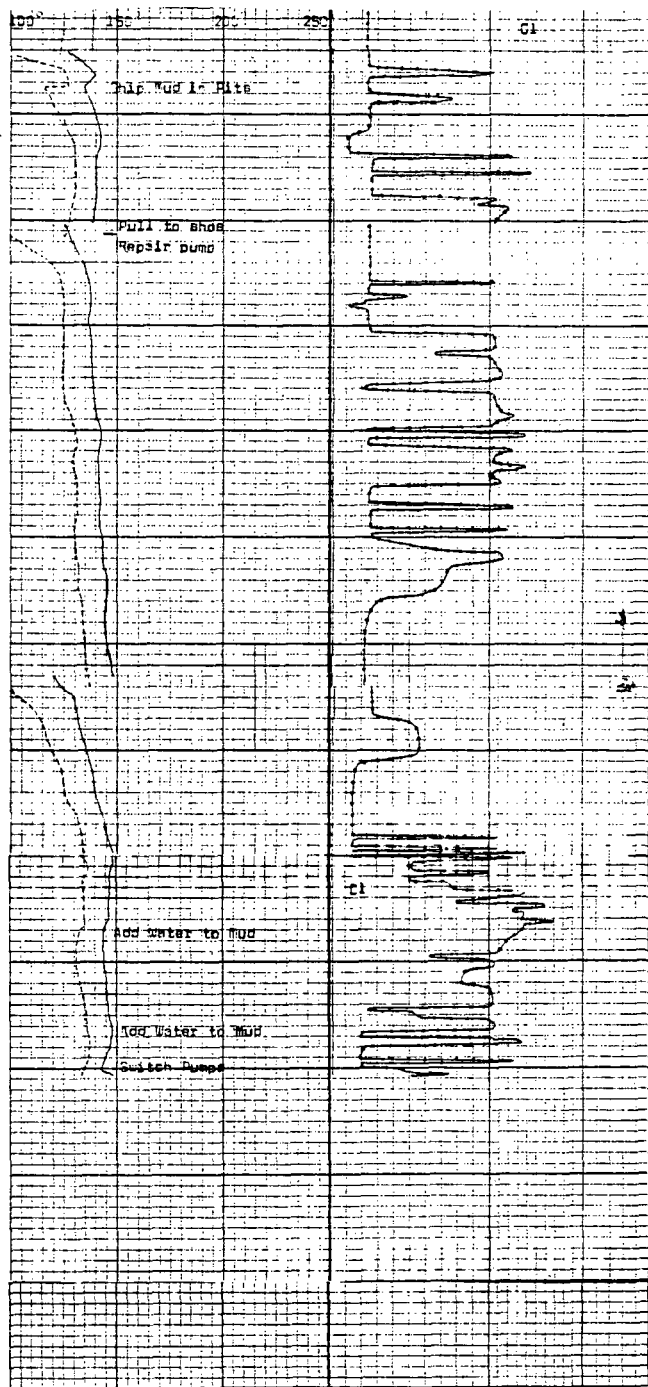
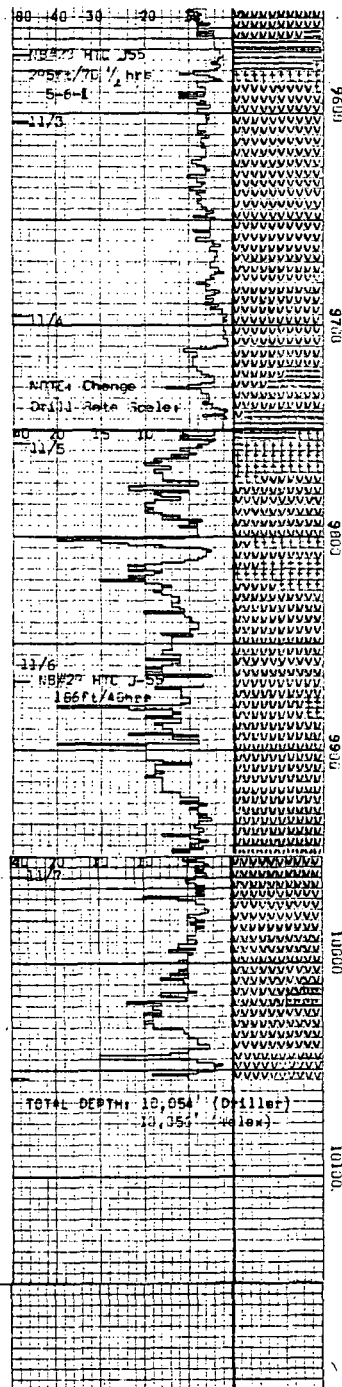
CHROMATOGRAPH PPM

1000 10M 100M

RM. (OUT) MOIST. (OUT)



ALTERED BASALT: dk gn, blk, brn-gy, hd-v hd, occ sft, pred holoxtal, mod aph, gen vf-f gr w/euh-subhed plagi; subh pyrox, gen suboph tex or cryptoxtal w/anh gmass, occ mod porph, gen w/chlor, sauss alt, tr hem stain, mnr serp frgs. w 85 v 47 f 5.0 fc 2/32 s 650 pH 11.5 sd 1% sol 20% SLTST: lt-m gy; mod hd, compct, brit; slty-vf gr, subfiss; mic mica, pos vf dissem pyr, rare calc vns w/ f-m pyr xtals. w 85 v 48 f 5.0 fc 2/32 s 650 pH 11.5 sd 1% sol 19% Rm .75 Rp .67 T 140 SLTST: m brn-gy, cpct, subfiss, fri, sil, wl srted, occ tr vf sd w 84 v 43 f 5.0 fc 2/32 s 600 pH 11.5 sd 3% sol 19% SLTST: m gy-lt brn; mod hd-v hd, brit, compct, subfiss; pred vf SLTST grdg to mod fiss SH; tr mic mica w 83.5 v 48 f 5.0 fc 2/32 s 600 pH 11.0 sd 3% sol 20% SLTST: lt-m brn-gy brn; v frm-hd; brit; f gr; v argil; com c slt sz wh, ang frags, prob tuffac matl; tr c qtz slt; tr mica; rr trc vf pyr mic-sph; trc slks E=90 / 42v Lag=70min / 5lspm TUFF: wh at top; lt gn-m brn-wh at btm; top v sft, wl hydrt, not cohes / mnr sl-mod frm, brit; mid (abv sltst) hd, lt gn, trnsl-turbid gndmas / wh, euhed, alt feld portaph; btm v hd, hackly-conch; v sil; v thn clr sil micvns; occ mod calc



ALT "BASALT" lit gn, mnt lt gybrn; v f gr phaner, holoxi, sme poe's hyoxi; devit: intergren; sbhed-euhea, chlor str flisohed dk orn frac pyrox: lt, euhea mag: f; com rim or spot; wh: com v f calc diss thru; occ qtz, c xl; qtz or calc vns or frac fill: occ sxt: occ dk gn wax; chlor-serp

w 83.5 v 42 f 5.0 fc 7/32
s 600 pH 11.0 sd 4% sol 18%

ALT "BASALT" lit gn, mnt lt gybrn; v f gr phaner, holoxi, sme poe's hyoxi; devit: intergren; sbhed-euhea, chlor str flisohed dk orn frac pyrox: lt, euhea mag: f; com rim or spot; wh: com v f calc diss thru; occ qtz, c xl; qtz or calc vns or frac fill: occ sxt: occ dk gn wax; chlor-serp

w 83.5 v 41 f 5.0 fc 7/32
s 600 pH 11.2 sd 4% sol 18%

ALTT: dk gy-lt brn; trns: v hd, brit, embst, occ sub: fies: proc sil cmt

TUFF: lit gy-gybrn-brn-wh: horn mod v hd, brit: sil trns: l, tuffic, devit: crnd: mass: spec / vvf wh equat: xl; xl ash or devit: (rod): trc vvf cll xl; sme v sft, w hydr: v solub: n cohes.

w 83.5 v 43 f 5.0 fc 7/32
s 600 pH 11.3 sd 4% sol 18%

ALTERED "BASALT" lit gn, mnt gy: s; v: mod no-hd, brit: m: c gr phaner holoxi: intergren: red dk euhea; feld, dk brn subhed pyrox, mnt mag: qtz: calc vein or frac fill: occ sxt: com chlor-serp

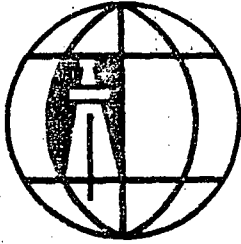
w 83.5 v 45 f 5.0 fc 7/32
s 600 pH 11.2 sd 4% sol 18%

670 / 41v
log: 7 min, 54 rpm

ALT "BASALT" lit gn, mnt gybrn: v f gr phaner, mnt f-m griped euhea: sbhed plng, wh-trns: when fr: lit gn/ chlor stng & wh react: rim where sxt: dk, euhea pyrox intrgrn to plng but frac log xl; euhea, occ stria mag, more com/ incr alt: sme v f diss: calc: sme wh, c xl calc vns; occ red: brn, earthy Fe-ox: fill: frac: com dk gn, sft, wax, stria sero

TUFFACEOUS: s; wh, cl: r: fr: mod hd, fri, brit: m: c gr: e srt: sil: band- eng: mod wh c eng feld, sme qtz, mnt sxt: mica, tr: rd brn rk frags: sil calc

Ren Welx DML-59, DDL, Dic, Bond,
& Temp Logs at 12,354'



MORNING REPORT & SHOW FORM

1

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

COMPANY & WELL ORE IDA FOODS "ORE IDA" #1
 DATE & TIME 8/20/79 DEPTH 228' PREVIOUS DEPTH 40' CONDUCTOR SHOE
 DRILLED _____ FT IN _____ HOURS. DRILL RATE RANGE _____ AVERAGE _____
 WOB _____ LBS. RPM _____ PUMP PRESSURE _____ PSI
 PUMP SIZE _____ SPM _____

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
1	17 1/2						

MUD: DEPTH	SURV	CARBIDE: CC,	U
W pH		V, SPM,	FT.
V OIL%		TRIP GAS:	
F SOL%			
FC Rm		CONNECTION GAS:	
SD RF			
GEL Rmc			
S T			

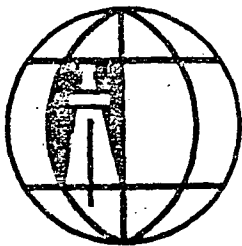
DITCH GAS RANGE: TOTAL	AVE.	PV	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	PV	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

OIL SHOWS:

LITHOLOGY: SD: V-F GRDG TO SLT / SDY SLT ST & SLT ST & / CLY: LT GY.
@ 60' @ 228' TR LS & PLY FRAGS
72° IN 81° IN
78° OUT 83° OUT

DOWN: SWIVEL NON OPERATIONAL, WAITING ON NEW SWIVEL.

Murray C Gardner (MCG)
ENERGY WELL LOGGING SERVICE



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

COMPANY & WELL ORE IDA FOODS "Ore Ida No.1"
 DATE & TIME 8-21-79 DEPTH 780 PREVIOUS DEPTH 228
 DRILLED 552 FT IN 8 HOURS. DRILL RATE RANGE 200-40 AVERAGE _____
 WOB 40,000 LBS. RPM 90 PUMP PRESSURE 370 PSI
 PUMP SIZE 6 1/2" x 18" SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
1	17K	Reed	Y13V	54-780	726	14	wt.

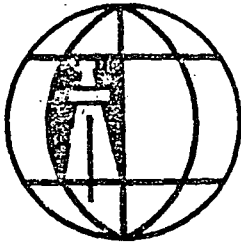
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: cc,	U
W 67 BH		300	85	80	V, SPM,	FT.
V 38 OIL%		400	87	85	TRIP GAS:	
F SOL%		400	89	80		
FC Rm		600	89	83	CONNECTION GAS: ? Masked by	
SD Rf		700	89	84	with gas (base line) readings	
GEL Rmc		800	89	84		
S T		900	85	85		

DITCH GAS RANGE: TOTAL <u>20-370</u> AVE.	PV	AVE.
BLENDOR GAS RANGE: TOTAL AVE.	PV	AVE.
CUTTINGS GAS RANGE: TOTAL AVE.	PV	AVE.

STATUS, EVENTS

LITHOLOGY: gy-ben integrdg + intbd clys, s/tst, vf sd-ss;
sd gas: gtz u rk frags

FORMATION: Idaho gr MISZ: My



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

COMPANY & WELL ORE IDA FOODS "Ore Ida No.1"
 DATE & TIME 8/22/79 6:00 AM DEPTH 924^{3/4} PREVIOUS DEPTH 780
 DRILLED 144 FT IN 1^{3/4} HOURS. DRILL RATE RANGE 180-80 AVERAGE 120
 WOB 40,000 LBS. RPM 90. PUMP PRESSURE 350 PSI
 PUMP SIZE 6^{1/2} x 18 SPM 65

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
1	17 ^{1/2} "	Reed	Y12J	54-924	870	15 ^{3/4}	

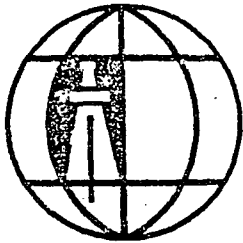
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	cc,	U
W 67	PH	800	89	83	V,	SPM,	FT.
V 38	OIL%	900	85	85	TRIP GAS:		
F	SOL%	924	85	85			
FC	Rm				CONNECTION GAS:		
SD	Rf				<i>None apparent</i>		
GEL	Rmc						
S	T						

DITCH GAS RANGE: TOTAL <u>62-140</u>	AVE. <u>120</u>	PV	<u>0</u>	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	PV		AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV		AVE.

STATUS, EVENTS 924' @ 7:45 AM 8/21/79, job to run 13^{3/8}" casing
ripper up Nipping up 6:00 AM 8/22

LITHOLOGY: SD, SDY SLTST, SLTST, CLY gy-gy brn, sme tan-brn
-wh frm - hd, brit, Fri; sme sft, hydrt

FORMATION: Idaho Gp MIS: *[Signature]*



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

prepared by Karl Anania 8/23/79

Approved *Mick Harder*

COMPANY & WELL ORE IDA FOODS "Ore Ida No.1"

DATE & TIME 8-23-79/07³⁰ DEPTH 1044 PREVIOUS DEPTH 925

DRILLED 119 FT IN 1 1/2 HOURS. DRILL RATE RANGE 75-300 AVERAGE 200

WOB 45,000 LBS. RPM 100. PUMP PRESSURE 1500 PSI

x PUMP SIZE 6 1/2 x 18 SPM 68

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
2	12/4	SMITH	DSV	925 →			

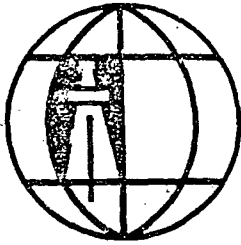
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	CC,	U
W: 67	PH	930	98	105	V,	SPM,	FT.
V: 38	OIL%	1000	98	105	TRIP GAS:		
F	SOL%	1040	97	104	CONNECTION GAS:	No	
FC	Rm						
SD	Rf						
GEL	Rmc						
S	T						

DITCH GAS RANGE: TOTAL	AVE.	PV	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	PV	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Tested BOP to 1500 psi, 1815 to 2013; DRILL SHOE 2105 to 0320 PUMP 2110; PUMP DOWN 2325 to 2330; WASHOUT STANDPIPE ON to 0640

LITHOLOGY: PRED SLTST/SD & CLY INTERBEDS
CLY - LT-M GY, w HYDR/ABSENT SD V-F-F+SLT
SD - PRED CLR W/HT QTL + FLDS, ABNT LITH FRAGS BLK
ORGANIC DETRITUS

FORMATION: IDAHO GROUP MISC: *[Signature]*



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Karl Anania 8/24/79



COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 8/24/79 DEPTH 2173 PREVIOUS DEPTH 1044
 DRILLED 1129 FT IN 17 HOURS. DRILL RATE RANGE 45-400 AVERAGE 150
 WOB _____ LBS. RPM _____ PUMP PRESSURE _____ PSI
 PUMP SIZE _____ SPM _____

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
2#	12 1/4	SMITH	DSS	924-2079	1155		
13#3	12 1/4	REED	513 G				

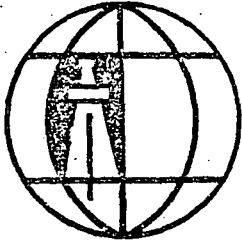
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	CC,	U
W 70	PH	1700	114	119	V,	SPM,	FT.
V 45	OIL%	1800	110	117	TRIP GAS: 1500		
F	SOL%	1900	114	116	(
FC	Rm	2000	112	116	CONNECTION GAS:		
SD	Rf	2100	105	111			
GEL	Rmc						
S	T						

DITCH GAS RANGE: TOTAL	AVE.	PV	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	PV	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS TRIP TO CHANGE OUT BIT. 12⁴⁵ AM TO 5¹⁰ AM @ 2,079'

LITHOLOGY: PRED SLTST/SDYSLTST & CLY/CLYST, ABNT SD STAINERS/
VF-E, ANG, MNP SBRD, QTZ, FLDS, & VCOL LITH FRAGS
IN CLY MTK.

FORMATION: IDAHO GROUP. MISC: *[Signature]*



MORNING REPORT & SHOW FORM

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ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

COMPANY & WELL ORE IDA FOODS "Ore Ida No.1"

DATE & TIME 6:00AM 8/25/79 DEPTH 3106 PREVIOUS DEPTH _____

DRILLED _____ FT IN _____ HOURS. DRILL RATE RANGE 240-79 AVERAGE 100

WOB 20-30000 LBS. RPM 100 PUMP PRESSURE 1800 PSI

PUMP SIZE 6'5 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
3	12 1/4"	Reed	S13G	2079-3106	1027		ING

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: 200 cc, 25 U
W 71 PH 9.0	2584 6'45"				45 V, 50 SPM, 32 MIN ⁴⁹⁹ 45
V 46 OIL% -					TRIP GAS: 5 No trip
F 9.4 SOL% 9					
FC 2/32 Rm					CONNECTION GAS:
SD 1 1/2 Rf					CG 45u @ 2928 CG 20u @ 2960
GEL 3/14 Rmc					CG 20u @ 2991 CG 20u @ 3022
S 4/00 T 125°					

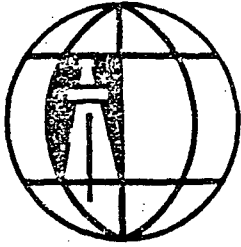
DITCH GAS RANGE: TOTAL 12-85	AVE. 25-80	PV	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	PV	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS 10^{AM} TO 12⁴⁵ UNPLUG FLOW LINE @ 2362

LITHOLOGY: CLY LT GY - LT BRN, OCC WH / SDY SLT ST & SLT ST
2 SD VF-F, ANG, DRED QTZ & LITH FRAGS, MNR, TUFF

FORMATION: IDAHO GROUP MISC: [Signature]

3 1/2



MORNING REPORT & SHOW FORM

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ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

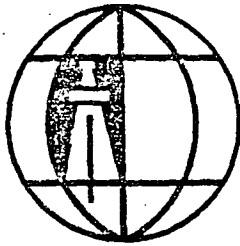
Karl J. Ananda 8/26/79

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 8/26/79 DEPTH 3532 PREVIOUS DEPTH 3106
 DRILLED 424 FT IN 9 1/2 HOURS. DRILL RATE RANGE 10-90 ft/hr AVERAGE 45 ft/hr
 WOB 10-15000 LBS. RPM 80-100. PUMP PRESSURE 1500-1700 PSI
 PUMP SIZE 6 1/2 X 18 GARDNER DENNER SPM 50

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
RR3	12 1/4	REFD	S13G				INC. (RE ROW)

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	cc,	U
W	pH				V,	SPM,	FT.
V	OIL%	0°45'	3151				
F	SOL%						
FC	Rm						
SD	Rf						
GEL	Rmc						
S	T						

DITCH GAS RANGE: TOTAL <u>2-75u</u> AVE. <u>60/5</u>	PV <u>BUILDING</u>	AVE.
BLENDOR GAS RANGE: TOTAL <u>CO₂ 6000-0</u> AVE. <u>100</u>	PV <u>MUD WEIGHT</u>	AVE.
CUTTINGS GAS RANGE: TOTAL <u>H₂ 0</u> AVE. <u>0</u>	PV <u>DOWN TO 25 WHILE TREATING MUD/CONCT.</u>	AVE.
STATUS, EVENTS <u>Survey @ 3151 - wireline 5mbz Drill to 3243, POH, Re-run Bit # 3, and some rig repairs; From 10:00 AM to 6:00 PM - CIRC TO 7:00 PM - RAN SURVEY / MAX TEMP THERMOMETER (126°) TILL 9:00 PM DRILG 9:30 PM (THERMOMETER ON BOTTOM 45 MIN).</u>		
LITHOLOGY: <u>SHTST / SDYSLTST: LT GY - LT BRN C CLY / CLYST: LT-M GY & SD: VF-F, MINR MEDIUM, PRED QTZ & FLDs & VCOL LITH FRAGS.</u>		
COMMENTS: <u>RAISED MUD WEIGHT, AFTER TRIP 3243, FROM 7 1/4 TO 7 3/4</u>		
FORMATION: <u>IDAHO GROUP</u>	MISC:	<u>Milly</u>



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

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COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 6:00 AM 1/26/79 DEPTH 4003 PREVIOUS DEPTH 3532
 DRILLED 471 FT IN 15 1/2 HOURS. DRILL RATE RANGE 90-15 AVERAGE 35
 WOB 40,000 LBS. RPM 100 PUMP PRESSURE 1500-1700 PSI
 PUMP SIZE 18x6 1/2 SPM 53

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
3	12 1/4"	Reed	S13G	2079 - 3652	1573	33	5/5/I
4	"	Smith	D5J	3652 - 4003	351	11 1/2	inc.

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: 300cc, 10 U
W 74 PH 10.0	3652 0°15'				? V, 53 SPM, 3807 FT.
V 42 OIL% -					TRIP GAS: 250 U
F 7.2 SOL% 14					
FC 2/32 Rm					CONNECTION GAS: 0
SD 1 1/2% RF					350 @ 3995
GEL 2/12 Rmc					
S 350 T 136°					

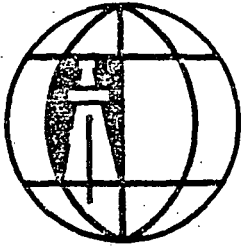
excludes 250 u recorded after trip

DITCH GAS RANGE: TOTAL 30-10 AVE.	PV AVE.
BLENDOR GAS RANGE: TOTAL AVE.	PV AVE.
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS Tripped For NB P4 @ 3652, Down 5 hours; hit bridge or fill @ 3924 while running in hole; Remained to bottom 2 1/4 hours; max temp out 131°

LITHOLOGY: Clyst-sltst gy, brn, buff, soft-firm, tuffaceous, micaceous
occ sl calcareous; Tuff wh, soft-sl firm, micaceous, gtzose,
with pyr concretions

FORMATION: Idaho Gp MISC: Tuff interbedded thru interval 3550-3800



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

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Don Brunell

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 6:00 AM 8/28/75 DEPTH 4,118' PREVIOUS DEPTH 4003
 DRILLED 115 FT IN 4 HOURS. DRILL RATE RANGE 15-80 AVERAGE 30
 WOB 40-60000 LBS. RPM 100 PUMP PRESSURE 1800 PSI
 PUMP SIZE 6 1/2 x 18 SPM 55

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
4	12 1/4	Smith	DSJ	3652- 4118 * OK	466	15	INC

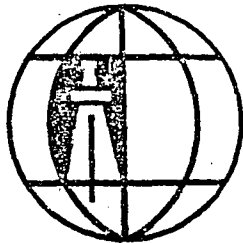
MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: O cc,	U
W	PH				V, SPM,	FT.
V	OIL%				TRIP GAS: O	
F	SQL%					
FC	Rm				CONNECTION GAS: 35 unit	
SD	Rf				"kick" @ 3994 possibly	
GEL	Rmc				CG contaminated	
S	T					

DITCH GAS RANGE: TOTAL	AVE.	PV	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	PV	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Wiped hole at 4118', drawworks broke down; pull out to shoe of casing with jury rig; wait on parts & mechanics from Bakers Field. 11AM 8/27 to 6 AM 8/28

LITHOLOGY: lt brn, soft hydrating, silty CLAY & brn, sl-mod firm brittle sl sdy siltst, tuffaceous, micaceous, trace pyrite microcrinoids, acc very calcareous

* Error in logged depth - one joint undercount by driller, now tracing. Idaho Gr. MISC: Mely



MORNING REPORT & SHOW FORM

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ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

COMPANY & WELL ORE IDA FOODS "Ore Ida No.1"
 DATE & TIME 6 AM : 9/2/79 DEPTH 3470 PREVIOUS DEPTH 4118 -
 DRILLED 0 FT IN _____ HOURS. DRILL RATE RANGE 0 AVERAGE _____
 WOB Reaming LBS. RPM _____ PUMP PRESSURE _____ PSI
 PUMP SIZE _____ SPM _____

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
5	12 1/4	Reed	S11G	Redrill 25yr	948	14	-

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	cc,	U
W 76 PH 10.6					V,	SPM,	FT.
V 47 OIL% 0					TRIP GAS: 3000 max so far		
F 8.0 SOL% 15					CONNECTION GAS: -		
FC 2/32 Rm							
SD 1 3/4 9. Rf							
GEL 4/22 Rmc							
S 350 T							

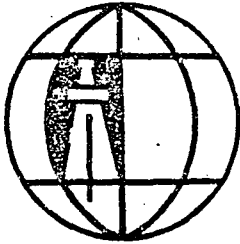
DITCH GAS RANGE: TOTAL	AVE.	PV	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	PV	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Completed rig repair 9:00 am 9/1; pull out of hole, measure drill pipe. Run in with NB 5" Broke circulation at 1780' & 2340', hit bridge - Fill at 2522', Reaming to bottom 4:00 am 9/1 to 6:00 am 9/2/79.

LITHOLOGY:

FORMATION: _____ MISC: Shub sub on string; no mud stabl. temps because of circulation

MURRAY'S



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

KJG 9/3/79 Karl J. Amario

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 9/3/79 @ 6 AM DEPTH 4345 PREVIOUS DEPTH 4118
 DRILLED _____ FT IN _____ HOURS. DRILL RATE RANGE 30-60 AVERAGE 40
 WOB 15-20000 LBS. RPM 100 PUMP PRESSURE 1900 PSI
 PUMP SIZE 6 1/2 X 18 DENVER SPM 55

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
#5	12 1/4	REED	S11G	REAMED FROM 2522 TO 4118	/	/	/

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: 800 cc, 30 U
W 77 PH 11.0		4118	143	147	52 V, 55 SPM, 4/30 FT.
V 50 OIL% -		4200	138	143	TRIP GAS: REAMING BACK
F 8.8 SOL% 15					TO BOTTOM MAX GAS 110 u
FC 2/32 Rm					CONNECTION GAS: Ⓟ
SD 1 RF					
GEL 3/24 Rmc					
S 350 T					

DITCH GAS RANGE: TOTAL 30-60 units AVE. 35 u	CO ₂ 100-200 ppm AVE. 150 ppm
BLENDOR GAS RANGE: TOTAL	H ₂ S 1-0 ppm AVE 1 ppm
CUTTINGS GAS RANGE: TOTAL AVE.	

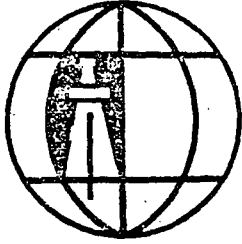
STATUS, EVENTS REAMED FROM 2522 TO BOTTOM 4118 / NR#5 IN 29 HRS. ON BOTTOM 10⁰²

LITHOLOGY: SLTST / SDYSLTST: LT-M GY, LTGY BRN, FIRM, SL-MOD CALC,
 CLY / CLYST: LT-M GY, GY GN, SL-V CALC, FIRM - WHYDR.
 TUFF: LT GY BRN, ALT-DEVITRIFIED / OCC SHARD & FRAGS
 QTZ & FLDS.

FORMATION: IDAHO GROUP. MISC. *MJG*

MORNING REPORT & SHOW FORM

MURRAY'S



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Karl J. Avania

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"

DATE & TIME 9/4/79 6^{AM} DEPTH 4722 PREVIOUS DEPTH 4345

DRILLED 377 FT IN 19 HOURS. DRILL RATE RANGE 6-120 AVERAGE 50

WOB 15-20,000 LBS. RPM 110 PUMP PRESSURE 1900 PSI

PUMP SIZE 6 1/2 X 18 SPM 55

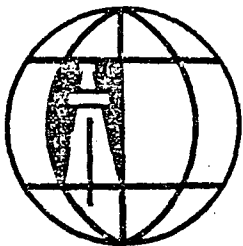
BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
#5	12 1/4	REED	S11G	4118 - 4722	604	23	INC

MUD: DEPTH		DEPTH	T _{in}	T _{out}	CARBIDE:	CC,	U
W 77	BH 10.5	4400	137	144	V,	SPM,	FT.
V 45	OIL% ϕ	4500	134	143	TRIP GAS:		
F 8.4	SOL% 15%	4600	131	144	CONNECTION GAS: WIPE HOLE		
FC 2/32	Rm	4700	142	149	GAS 40u @ 4565		
SD 1%	Rf	4722	?				
GEL 3/15	Rmc						
S 350 _{PM}	T 150°F						

DITCH GAS RANGE: TOTAL <u>7-15u</u>	AVE. <u>10u</u>	CO ₂ <u>150-225ppm</u>	AVE. <u>150ppm</u>
BLENDOR GAS RANGE: TOTAL	AVE.	H₂S 0ppm	AVE. 0
CLIPPINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS BHT 165° @ 4565 max reading 70 min
 STATUS @ 6^{AM} TRIPPING OUT OF HOLE
on bottom - about 2 hrs before circulation broken

LITHOLOGY: SLTST & CLY: LT-MED BRN, MNR GY BRN, FIRM-BRIT/CALC UNS,
MNR QTZ SD & LITH FRAGS, TUFF: WH-LT GY, MOTTLED, PARTIALLY DEVITRIFIED
TO CLY. SS: WH, F-C, ANG-SBANG, CLR QTZ / LT BRN OXID BIO, GCL FLDS
CMTD / CALC MNR PRES SOLN, DIABASE: LT-M GRN, APHAN-PHANER, PLAG
BRN PYROXENE & MAGNETITE / TR SKS (SLIKEN SIDES).
 FORMATION: IDAHO GROUP MISC: *Murray*



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

JMS

Karl J. Amaria

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 9/5/79 @ 6 AM DEPTH 5092 PREVIOUS DEPTH 4722
 DRILLED 390 FT IN 16 1/4 HOURS. DRILL RATE RANGE 180-15 AVERAGE 30
 WOB 15-25000 LBS. RPM 100 PUMP PRESSURE 1900 PSI
 PUMP SIZE 6 1/2 X 18 SPM 55

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
6	12 1/4	HTC	OSC-3AJ	4722-			

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: 400 cc, 15 U
W 784 PH 11.0	1°30'	4722	133	145	60 V, 62 SPM, 4760 FT.
V 47 OIL% 0		4800	141	147	TRIP GAS:
F 8.2 SOL% 16%		4900	146	151	
FC 2/32 Rm		5000	148	153	CONNECTION GAS:
SD 1% Rf					
GEL 3/15 Rmc					
S 350 T 154					

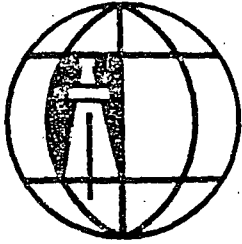
DITCH GAS RANGE: TOTAL <u>14-35u</u> AVE. <u>16u</u>	<u>CO2</u> <u>150-275ppm</u> AVE. <u>200ppm</u>
BLENDOR GAS RANGE: TOTAL AVE. <u> </u>	H2S <u>0ppm</u> AVE. <u>0</u>
CUTTINGS GAS RANGE: TOTAL AVE. <u> </u>	PV AVE. <u> </u>

STATUS, EVENTS DRLG AHEAD. AFTER REACHING BOTTOM AGAIN AT 1445
HRS. 94 (DIFFICULTY REAMING TO BOTTOM 3300 ± TO 4722 ON BIT CHANGE RT.)

LITHOLOGY: SLTST / SDV SLTST / CLY & CLYST: LT GY, BONE - WH, BAFF
LT GY BRN, FIRM - SFT, SL - MOD CALC / ARNT SLT - M SD;
INTERBEDDED WITH FUFFS: WH - BONE, LT BRN, RELIC - ARNT
SHARDS & SHARD FRAGS, SL - U DEVIT, DISM PYR.

FORMATION: IDAHO GROUP MISC: *[Signature]*

MURRAY'S



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Karl J. Anonvia

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 9/6/79 @ 6 AM DEPTH 5194' PREVIOUS DEPTH 5097'
 DRILLED 102 FT IN _____ HOURS. DRILL RATE RANGE _____ AVERAGE _____
 WOB 15-25,000 LBS. RPM 100 PUMP PRESSURE 1800 PSI
 PUMP SIZE 6 1/2 x 18 SPM 55

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
6	12 1/4"	HTC	OSC3AJ	4722-5151	429	19 1/2	
7	"	Reed	S13G	5151-			

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	CC,	U
W 79 PH 11.0	5151 1230	5190	153	158	V,	SPM,	FT.
V 40 OIL% 0					TRIP GAS: Zero		
F 8 SOL% 16%					CONNECTION GAS: 0		
FC 2 Rm							
SD 3/4% Rf							
GEL 2/7 Rmc							
S 350 T 158°F							

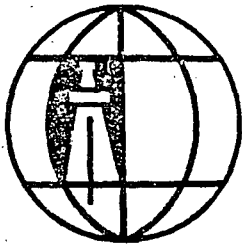
DITCH GAS RANGE: TOTAL 5-19 UNITS AVE. 7u	H ₂ S 0ppm AVE. 0ppm
BLENDOR GAS RANGE: TOTAL _____ AVE. _____	CO ₂ 125-200ppm AVE. 175ppm
CUTTINGS GAS RANGE: TOTAL _____ AVE. _____	PV _____ AVE. _____

STATUS, EVENTS Trip for NB#7 @ 5151', encountered only 30' of fill on bottom
 5194' WASH OUT & TRIPPING @ 6 AM ~~Leak~~ drill pipe? ~~cut~~
 Crack at connection

LITHOLOGY: SS: WH-LT GY, VF-F, MNR, M-C, ANG, CLR QZ,
 V COL LITH FRAGS. SLTST/SDYSLTST/CLY: LT-M GY, GY BRN,
 BUFE, SET-FIRM, SL-V CALC, / SLT-M, SD. TUFF: LT-BRN-
 ORANGE-CREAM, DRED DEVITRIIFIED GLASS FRAGS & SHARDS
 DIABASE: MED-DK GRN, APHAN-PHAN, FLDS & PYROXENES ABNT MAGNETITE
 FORMATION: IDAHO GROUP MISC: DIABASE TOP 5160

Mcly

MURRAY'S



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Karl J. Anania

15

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 9/7/78 @ 6^{AM} DEPTH 5284' PREVIOUS DEPTH 5196'
 DRILLED 88 FT IN 16 1/2 HOURS. DRILL RATE RANGE 15-3 AVERAGE 5
 WOB 30,000 LBS. RPM 100 PUMP PRESSURE 1900 PSI
 PUMP SIZE 6 1/2 X 18 SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
7	12 1/4	REED	S13G	5151-5196	45	6 1/2	5/1/I
8	"	"	Y12J	5196-5284	88		

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	cc,	U
W 79 PH 11.0		5250	154	160	V,	SPM,	FT.
V 42 OIL% ϕ		5270	156	161	TRIP GAS: 10 units @ 5196'		
F 8 SOL% 16%					CONNECTION GAS: ϕ		
FC 2 Rm -							
SD 3/4% Rf -							
GEL 2/8 Rmc -							
S 350 T 161°F							

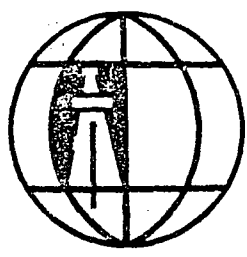
DITCH GAS RANGE: TOTAL 5-10 UNITS AVE. 6 _a	CO ₂ 125-250 PPM AVE. 150 PPM
BLENDOR GAS RANGE: TOTAL _____ AVE. _____	H ₂ S 1-2 PPM AVE. 1 PPM
CUTTINGS GAS RANGE: TOTAL _____ AVE. _____	TV _____ AVE. _____

STATUS, EVENTS Trip for washout @ 5196' - NTB #8 Reamed 30' of F. 11
 TRIPPING FOR NEW BIT @ 5284' (Barb in hole at 11:30 AM 9/7. Started
 bit run out at 4:00 AM 9/8)

LITHOLOGY: DIAPYSE: M-DK GN. GN-FRN, PLAGNEDITIC,
 F-M GRAINED: EUMISO-SBHEJ, FLAG, PYROXENE, MAGNETITE
 OCC DYP & CHLORITE.

FORMATION: ? IDAHO GROUP MISC:

MURRAY'S



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 9167487-9124

Karl J. Mania

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"
 DATE & TIME 8/8/79 @ 6:00 AM DEPTH 5440 PREVIOUS DEPTH 5284
 DRILLED 156 FT IN _____ HOURS. DRILL RATE RANGE 6-40' AVERAGE 15'
 WOB 30-35000 LBS. RPM 60 PUMP PRESSURE 1900 PSI
 PUMP SIZE 6 1/2 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
8	12 1/4"	Reed	Y12J	5196 - 5282	86	16 1/2	4 1/2 I
9	"	HTC	J-22	5282 -			

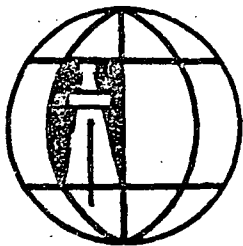
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	cc,	U
W 79 PH 11.0	NMC	5300	153	158	V,	SPM,	FT.
V 42 OIL% ϕ		5350	159	163	TRIP GAS: 150 @ 5282		
F 5.8 SOL% 16%		5400	160	167	CONNECTION GAS: ϕ		
FC 2/32 Rm							
SD 3/4 Rf							
GEL 2/8 Rmc							
S 350 T 167							

DITCH GAS RANGE: TOTAL 6-10u	AVE. 7u	CO ₂ 110-285ppm	AVE. 175ppm
BLENDOR GAS RANGE: TOTAL _____	AVE. _____	H ₂ S 1-0ppm	AVE. 1ppm
CUTTINGS GAS RANGE: TOTAL _____	AVE. _____	PV _____	AVE. _____

STATUS, EVENTS Trip for NR #9 commencing @ 4:00 AM 9/7 Ran BHT survey 2:00 pm 9/7
 Sat 40 min - Temp = 192°F @ ~5212' Resume drlg 3:30 pm 9/7

LITHOLOGY: DIABASE: M-DK GRN, ADHAN-PHANER, FLDS, PYROXENE, MAGNETITE,
 SD: VE-M, DREG SBANG-SBRD, QZ, TUFF: WH-CREAM, HD, BSLC GLASS
 shards. Sitst: gy-brn, hd, brittle, f-c, sdy, tuface

FORMATION: ICAHO GROUP MISC: *[Signature]*



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

John Bailey Bland

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"

DATE & TIME 9 Sept; 6:00 AM DEPTH 5645 PREVIOUS DEPTH 5443

DRILLED 20 L FT IN 24 HOURS. DRILL RATE RANGE 4-18 ft/hr AVERAGE 8 ft/hr

WOB 30-45000 LBS. RPM 40. PUMP PRESSURE 1900 PSI

PUMP SIZE 6 1/2 X 18 SPM 65

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
9	12 1/4	HTC	J22	5284 - present depth	361	37 1/2	Enc

LAG ≈ 81 min.

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: 200 cc, 10 U
W 794 PH 11.5		5645	161	167	43 V, 65 SPM, 5502 FT.
V 44 OIL% ϕ					TRIP GAS: ϕ
F 6.0 SOL% 1790					CONNECTION GAS: ϕ
FC 2/32 Rm					
SD 190 RF					
GEL 3/10 Rmc					
S 400 T 167					

DITCH GAS RANGE: TOTAL C ₁ = 340 - 1700 ppm AVE. 1000 ppm	CO ₂ : 175 - 300 ppm AVE. 250 ppm
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S: ϕ AVE. 0
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS Wiped hole 5 stands @ 5517', 2:00-2:30 pm, 8 Sept; no problems

Worked on pump #1 while circulating with pump #2, 4:47-5:15 AM, 9 Sept.

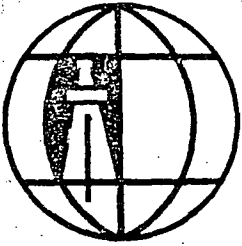
LITHOLOGY:

5443-5580: Sand & Sandstone: white-light gray, angular-rounded; very fine to fine grained siltstone: gray, gray-brown, firm, brittle, fissile in part

Tuff: light brown, cream-white; hard & brittle-mod soft; predominantly aphanitic matrix w/ fine Kfs

5580 - : Diabase: very fine-medium grained; black-dark gray; hard

FORMATION: MISC:



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Tom Bailey Bland

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"

DATE & TIME 6:00 AM; 10 Sept DEPTH 5807 PREVIOUS DEPTH 5645

DRILLED 162 FT IN 23 1/2 HOURS. DRILL RATE RANGE 4-40 ft/hr AVERAGE 7 ft/hr

WOB 25-35,000 LBS. RPM 42 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
9	12 1/4	HTC	J22	5284 to present depth	523	60	Inc

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	CC,	U
W 79 PH 11.0		5700	158	166	V,	SPM,	FT.
V 42 OIL% -		5720	154	163	TRIP GAS: \emptyset		
F 5.8 SOL% 17 1/2		5740	156	163			
FC 2/32 Rm		5760	159	168	CONNECTION GAS: \emptyset		
SD 3/4 % Rf		5780	161	168			
GEL 2/9 Rmc							
S 400 T in 16 h; out 170							

DITCH GAS RANGE: TOTAL C ₁ : 360-1200 ppm AVE. 800 ppm	#4 CO ₂ : 100-200 ppm AVE. 150 ppm
BLENDOR GAS RANGE: TOTAL AVE.	#4 H ₂ S \emptyset AVE. \emptyset
CUTTINGS GAS RANGE: TOTAL AVE.	#4 AVE.

STATUS, EVENTS Wiper Run @ 5720; 2:00 - 2:30 pm, 9 Sept;

LITHOLOGY:

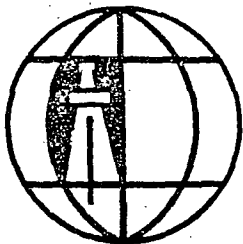
5645-5665: Disbese: black-grey; fine-medium grained

5665 present depth: interbedded siltstone, claystone, sandy siltstone, tuffs, and tuffaceous sands

FORMATION: _____ MISC: _____

94 minutes trip

MORNING REPORT & SHOW FORM



ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Karl Kromia

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1"

DATE & TIME 6 AM SEPT. 11 DEPTH 6075 PREVIOUS DEPTH 5807

DRILLED 268' FT IN 16 1/2 HOURS. DRILL RATE RANGE 6-60 AVERAGE 20'

WOB 25-35,000 LBS. RPM 42 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
9	12 1/4	HTC	J22	5284-5834	552	63	TS-BSIOT
10	"	Reed	FP51	5834 -			

SOFT-MEDIUM FMI.

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	CC,	U
					V, <td>SPM, <td>FT. </td></td>	SPM, <td>FT. </td>	FT.
W 79 PH 11.0		5850	155	157			
V 43 OIL% ϕ		5900	158	167	TRIP GAS: ϕ		
F 3.8 SOL% 17		5950	159	171			
FC 2/32 Rm		6000	159	171	CONNECTION GAS: ϕ		
SD 3/4 90 Rf		6050	162	175			
GEL 3/11 Rmc							
S 400 T 175							

DITCH GAS RANGE: TOTAL <u>1000-2400ppm</u> AVE. <u>1400ppm</u> <u>CO2 175-250</u> AVE. <u>200ppm</u>
BLENDOR GAS RANGE: TOTAL AVE. <u>175 ϕ</u> AVE. <u>ϕ</u>
CUTTINGS GAS RANGE: TOTAL AVE. <u>PV</u> AVE. <u>!</u>

STATUS, EVENTS TRIP @ 9 AM - 4:30 PM 5834'

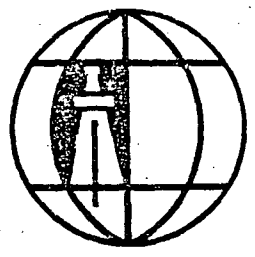
BHT SURV @ 5805' - 200° SAT 1HR

DEVIATION 1 1/2°

LITHOLOGY: TUFFACEOUS SS/SD - WH-LT GY, BY BRN, F-M

SBRD / GLASS SHARD FRAGS.

FORMATION: IDAHO GROUP. MISC *[Signature]*



MORNING REPORT & SHOW FORM

ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" *Jim Bilty Ball*

DATE & TIME 6:00 AM, 12 Sept DEPTH 6247 PREVIOUS DEPTH 6075

DRILLED 172 FT IN 23 1/4 HOURS. DRILL RATE RANGE 4-30 ft/hr AVERAGE 7 ft/hr

WOB 35,000 LBS. RPM 64 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 65

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
10	12 1/4	Reed	FPSI	5834-present	413	35 1/2	INC

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: 200 cc, 13 U
W 79 PH 11.0		6100	162	176	41 v, 65 SPM, 6225 FT.
V 41 OIL% ϕ		6150	162	179	TRIP GAS: ϕ
F 5.6 SOL% 17%		6175	162	176	
FC 2/32 Rm		6200	160	175	CONNECTION GAS: ϕ
SD 3/4 Rf		6250	163		
GEL 2/8 Rmc					
S 400 T 175-180					

H₂S PEAK AT 6105, DECREASED TO AT 6160.

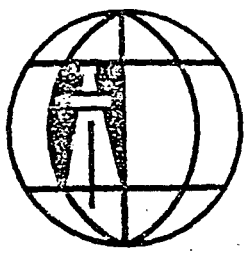
DITCH GAS RANGE: TOTAL C ₁ : 400-1500 ppm AVE. 700 ppm	ET CO ₂ : 212-300 AVE. 225 ppm
BLENDOR GAS RANGE: TOTAL AVE.	ET H₂S: 6-7 ppm AVE. 0
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS WIPE HOLE 4:10-4:45 PM 11 Sept

LITHOLOGY: Altered basic igneous rock - UNCERTAIN WHETHER THIS IS AN INTRUSIVE OR EXTRUSIVE ROCK. SAMPLES ARE SAUSSURIZED (GREEN ALTERATION), SOFT; ORIGINAL MINERALS ARE PLAGIOCLASE - PYROXENE AND ABUNDANT MAGNETITE BUT GRAIN SIZE RANGES FROM FINE TO COARSE AND TEXTURE IS BARELY FORMATION: DIABASIC. MISC:

John Bailey Elliott

MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGYLOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 185-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6^{4M}; 13 SEPT 79 DEPTH 6324 PREVIOUS DEPTH 6247

DRILLED 77 FT IN 13 HOURS. DRILL RATE RANGE 4-48'/hr AVERAGE 6 ft/hr

WOB 35-45,000 LBS. RPM 60-70. PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
#10	12 1/4	REED	FD51	58-34-6266'	420	38 1/2	T4-B4, IG
#11	"	"	"	6266'-	INC	INC	INC

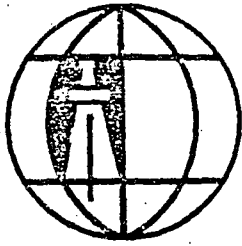
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: ϕ	cc,	U
W 79	PH	11.5	1°	6266'	V,	SPM,	FT.
V 40	OIL%	---		6280	160	172	TRIP GAS: ϕ
F 5.6	SOL%	17%		6290	160	172	
FC 2/32	Rm			6300	160	168	CONNECTION GAS: ϕ
SD 1%	Rf			6310	159	170	
GEL 2/8	Rmc						
S 400	T	171° F					

Chromatograph: C ₁ Range: 490-1500 ppm	AVE. 700 ppm	CO ₂ : 175-280 ppm	AVE. 225 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: ϕ	AVE. ϕ
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS TRIPPING FOR NEW BIT #11 @ 6266' FROM 9^{AM} TO 3⁴⁵ PM;
 BHT SURVEY @ ~6200'; SAT 30MIN; 230°F. Minor partial ~~to~~ mud loss
 ① ~ 6275'-6285'. PUMPING SUMP (RECYCLING) INTO PITS.

LITHOLOGY:
 Altered basic igneous rock. 6295-BASE OF IGNEOUS ROCK. WENT INTO
 TUFFACEOUS SILT.

FORMATION: MISC:



MORNING REPORT & SHOW FORM

Jim Bailey 22

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM, 14 Sept DEPTH 6476 PREVIOUS DEPTH 6324
DRILLED 152 FT IN 23³/₄ HOURS. DRILL RATE RANGE 3-48 f/hr AVERAGE 6 f/hr
WOB 45,000 LBS. RPM 70 PUMP PRESSURE 1800 PSI
PUMP SIZE 6¹/₂ X 18 SPM 63

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
11	12 ¹ / ₄	Reed	FPSI	6266 - present depth	210	34	Ine

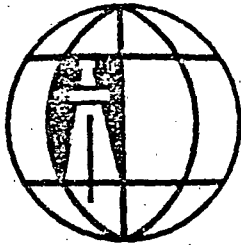
MUD: DEPTH	SURV	Depth	* in	* out	CARBIDE: 200 cc, 8 U
W 20 PH 11.0		6420	152	160	45 V, 65 SPM, 6356 FT.
V 42 OIL% —		6450	154	161	TRIP GAS: ϕ
F 6.0 SOL% 17%		6470	152	166	
FC 2/32 Rm					CONNECTION GAS: ϕ
SD 10/6 RF					
GEL 2/10 Rmc					
S 600 T* 161 °F					

Chromatograph: C ₁ : 600-1500 ppm	AVE. 780 ppm	CO ₂ : 150-250 ppm	AVE. 225 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: ϕ	AVE. ϕ
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS WIPER Run at 6425, 7:05 - 7:25 PM, 13 Sept. No problem
TEMP PROBE FAILURE FROM ~ 6000 TO 6450

LITHOLOGY: Siltstone, tuffaceous siltstone, minor tuffaceous sandstone

FORMATION: *Mt. Hood* Note: readjustment of temp probes



MORNING REPORT & SHOW FORM

Jim Bailey Bhatt
(23)

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM - 15 SEP 79 DEPTH 6577 PREVIOUS DEPTH 6475
DRILLED 10 FT IN 23 HOURS. DRILL RATE RANGE 3-15 ft/hr AVERAGE 4 ft/hr
WOB 45,000 LBS. RPM 72-76 PUMP PRESSURE 1800 PSI
PUMP SIZE 6 1/2 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
11	12 1/4	Reed	FPS1	6266-present	311	57 1/2	INR

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: ϕ	cc,	U
					V,	SPM,	FT.
W 80 PH 11.0		6490	153	162			
V 43 OIL% —		6500	151	163	TRIP GAS: ϕ		
F 5.8 SOL% 17 1/2		6520	153	165			
FC 2 1/2 Rm		6550	153	163	CONNECTION GAS: ϕ		
SD 1 1/2 RF		6560	153	164			
GEL 2 1/8 Rmc		6570	154				
S 600 T 164° F							

Chromatograph: C = 850-990 ppm	AVE. 900 ppm	CO ₂ : 75-250 ppm	AVE. 150 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: ϕ	AVE. ϕ
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Wipe Hole at 6531, 8:00 - 8:30 pm; no problems

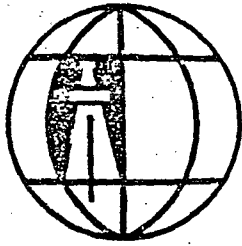
LITHOLOGY: Silty sandstone, minor sandstone w/ detrital basalt grains

FORMATION:

MISC

ENERGY WELL LOGGING SERVICE

201 6577



MORNING REPORT & SHOW FORM

5 3/4 hr

ORE IDA FOODS ENERGY LOG

#11 365/60'

3260 2nd Avenue Sacramento CA 95817 916 487-9124

5-7-1/4

Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6 PM 10/16/79 DEPTH 6250 PREVIOUS DEPTH 6577

DRILLED 173 FT IN 12 1/4 HOURS. DRILL RATE RANGE 30-6 AVERAGE 12

WOB 42-45,000 LBS. RPM 50-55 PUMP PRESSURE 1900 PSI

PUMP SIZE 6 1/2 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
11	12 1/4	REED	FP51	6251 - 6616	365	60 1/2	TS-87-0 1/2
12	"	HIC	J33	6616 - PRESENT DEPTH	134	11 3/4	INC

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: 300 cc, 9 U
W 86 PH 11.0	0°45'	6616			41 V, 63 SPM, 6666' FT.
V 43 OIL% φ					TRIP GAS: 6616': 15 units
F 5.8 SOL% 17%					
FC 2/32 Rm					CONNECTION GAS: φ
SD 1% RF					
GEL 2/8 Rmc					
S 600 T 166					

CHROMATOGRAPH C ₁ 900-2200 AVE. 1000ppm	H ₂ S: φ	AVE. φ
BLENDOR GAS RANGE: TOTAL AVE.	CO ₂ : 100-125ppm	AVE. 100ppm
CUTTINGS GAS RANGE: TOTAL AVE.	PV	AVE.

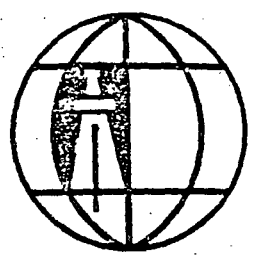
STATUS, EVENTS TRIP @ 6616' 9 AM TO 4 PM

LITHOLOGY: Sandstone, LT GY WH - BONE, W GMT / CALC
d SIL

FORMATION: IDAHO GROUP(?) MISC:

Am Bieby Billed (25)

MORNING REPORT & SHOW FORM



ORE IDA FOODS
ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
DATE & TIME 6:00 AM, 17 SEPT DEPTH 6982 PREVIOUS DEPTH 6750
DRILLED 232 FT IN 23 1/2 HOURS. DRILL RATE RANGE 2-30 ft/hr AVERAGE 16 ft/hr
WOB 4800 LBS. RPM 55 PUMP PRESSURE 1800 PSI
PUMP SIZE 6 1/2 X 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
12	12 1/4	HTC	J33	6616 - present	366	35 1/4	Inc

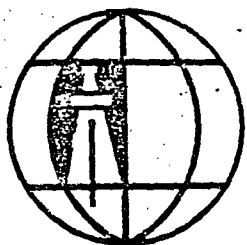
MUD: DEPTH	SURV	Depth	in	out	CARBIDE: 200 cc, 11 U
W 80 PH 11.0		6750	158	166	43 v, 64 SPM, 6946 FT.
V 43 OIL% —		6800	160	169	TRIP GAS: ∅
F 5.8 SOL% 17%		6850	154	161	
FC 2/32 Rm		6900	158	169	CONNECTION GAS: ∅
SD 1 1/2 RF		6950	160	171	
GEL 2/8 Rmc		6960	160	172	
S 600 T 17.2° F					

Chromatograph: C ₁ = 680 - 1800 ppm	AVE. 950 ppm	CO ₂ : 90 - 300 ppm	AVE. 150 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: ∅	AVE. ∅
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Wipe Hole at 6865', 6:30 - 7:00 PM 16 SEPT

LITHOLOGY: Sandstone sand: white, light gray, hard, well indurated to unconsolidated; very fine to fine, siliceous cement.
Siltstone: brown, dark gray; massive, non fissile - subfissile; minor sandy siltstone

FORMATION: MISC: *Milly*



MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817-916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM, 18 SEPT DEPTH ~~7154~~ 7152 PREVIOUS DEPTH 6982
DRILLED 172' FT IN 16 7/4 HOURS. DRILL RATE RANGE 5-60 fph AVERAGE 10 fph
WOB 45,000 LBS. RPM 55 PUMP PRESSURE 1800 PSI
PUMP SIZE 6 1/2 X 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
12	12 1/4	HTC	J-33	6616-7154	538	52	still in hole

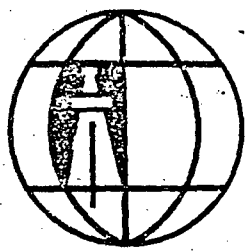
MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: ϕ	cc,	U
					V,	SPM,	FT.
W 81 PH 11.5		7000	164	172			
V 43 OIL% —		7020	165	172	TRIP GAS: ϕ		
F 5.6 SOL% 18%		7050	165	175			
FC 2/32 Rm		7100	165	175	CONNECTION GAS: ϕ		
SD 1 1/2 % RF		7120	164	174			
GEL 2/8 Rmc		7150	164	175			
S 600 T 175°							

Chromatograph C ₁ 520-2000 ppm AVE. 680 ppm	CO ₂ : 50-300 ppm AVE. 250 ppm
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S: ϕ AVE. ϕ
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS Drilled to 7154, dilled hit at 10:45 PM 17 SEPT; WIPE Hole in condition mud for E logs; POH for E logs at 2:05 AM 18 SEPT

LITHOLOGY:
Sand, Siltsone, sandstone (to 7015) white-brown, very fine to fine
Diabase (?) (7015 - approx 7130) fine-medium grained altered in parts
Basalt (?) (approx 7130-7154) black, very fine grained; variable textures

FORMATION: MISC:



MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM, 19 SEPT. DEPTH 7152 PREVIOUS DEPTH 7152

DRILLED 0 FT IN - HOURS. DRILL RATE RANGE - AVERAGE -

WOB - LBS. RPM - PUMP PRESSURE - PSI

PUMP SIZE - SPM -

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: cc,	U
W pH					V, SPM,	FT.
V OIL%					TRIP GAS:	
F SOL%					CONNECTION GAS:	
FC Rm						
SD RF						
GEL Rmc						
S T						

BLENDOR GAS RANGE: TOTAL	AVE.	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV AVE.

STATUS, EVENTS RAN LOGS W/LELEX TEMPERATURE RUN 1 8 HOURS AFTER ORE
RUN 2 24 HOURS " "

DUAL INDUCTION GUARD LOG, FRACTURE FINDER - MICROSEISMOGRAM LOG.

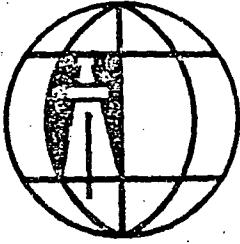
LITHOLOGY: VELOCITY LOG.

STILL TO DO

DENSITY - NEUTRON, TEMPERATURE 3

FORMATION: MISC

MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM 20 SEPT. 1979 DEPTH 7152 PREVIOUS DEPTH 7152

DRILLED 0 FT IN — HOURS. DRILL RATE RANGE — AVERAGE —

WOB — LBS. RPM — PUMP PRESSURE — PSI

PUMP SIZE — SPM —

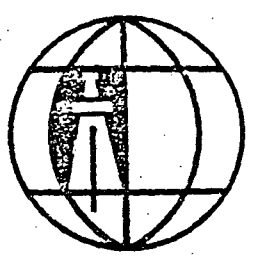
BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	cc,	U
W PH					V,	SPM,	FT.
V OIL%					TRIP GAS:		
F SOL%					CONNECTION GAS:		
FC Rm							
SD Rf							
GEL Rmc							
S T							

	AVE.		AVE.
BLENDOR GAS RANGE: TOTAL	AVE.		AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS COMPLETED RUNNING WELLY LOGS 0430 9/20 -
 RAN TEMPERATURE LOG #3 AND #4; GAMMA, COMPENSATED DENSITY (NEUTRON)
 BOTTOM HOLE TEMPERATURE RUN #3 (35 1/4 HRS AFTER CIRCULATION) 293°F
 LITHOLOGY: RUN #4 (50 3/4 HRS AFTER CIRCULATION) 295°F
 PREPARING TO GO BACK IN HOLE AND DRILL AHEAD

FORMATION: MISC



MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM; 21 SEPT DEPTH 7167 PREVIOUS DEPTH 7154

DRILLED 13 FT IN 4 HOURS. DRILL RATE RANGE 2-7 ft/hr AVERAGE 3 ft/hr

WOB 25-45,000 LBS. RPM 45 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 64

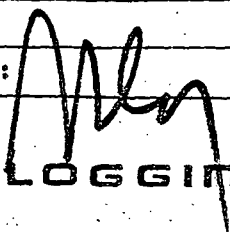
BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
12	12 1/4	HTC	J33	6616 - 7154			
13	12 1/4	Reed	FP62	7154 - present depth	13	4	INC

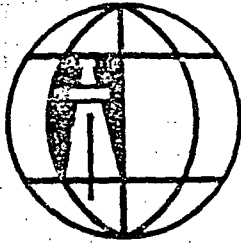
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: Ø	CC,	U
W	PH	7160	165	175	V,	SPM,	FT.
V	OIL%				TRIP GAS: 100 units, complicated by reaming		
F	SOL%				CONNECTION GAS: Ø		
FC	Rm						
SD	Rf						
GEL	Rmc						
S	T						

Chromatograph: C ₁ 590-630 ppm	AVE. 600 ppm	CO ₂ : 12-50 ppm	AVE. 25 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: Ø	AVE. Ø
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS: RIH with NB #13, begin reaming at 11:30 AM, 20 SEPT; ream to bottom until 1:55 AM 21 SEPT; drilling new hole at 2:07 AM 21 Sept. Drill new hole. LOST CIRC at 7169; 6:28 AM.

LITHOLOGY: Basic intrusive: black-dark gray, fine grained; minor, but more abundant green waxy mineral; traces of zeolite(?) veinlet filling

FORMATION: MISC: 



MORNING REPORT & SHOW FORM

John Briley *6/11/11*
30

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 6:00 AM, 22 Sept DEPTH 7266 PREVIOUS DEPTH 7167'
 DRILLED 98 FT IN 16 1/2 HOURS. DRILL RATE RANGE 2-15 AVERAGE 6 ft/hr
 WOB 38,000 LBS. RPM 65 PUMP PRESSURE 1800 PSI
 PUMP SIZE 6 1/2 x 18 SPM 62-64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
13	12 1/4	Reed	FP62	7154 - present depth	111	22	INT

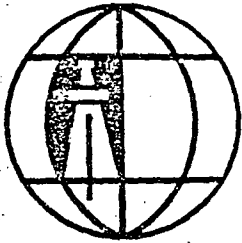
MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: ϕ	cc,	U
					V,	SPM,	FT.
W 82 PH 11.0		7170	139	153			
V 42 OIL% —		7190	142	157	TRIP GAS: ϕ		
F 5.2 SOL% 19		7200	145	160			
FC 2/32 Rm		7220	155	162	CONNECTION GAS: ϕ		
SD 3/4 1/2 RF		7240	160	169			
GEL 2/8 Rmc		7250	163	171			
S 650 T 172°F		7260	163	172			

Chromatograph = C ₁ : 490 - 780 ppm	AVE. 550 ppm	CO ₂ 0 - 150 ppm	AVE. 50 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ : ϕ	AVE. ϕ
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS *Build mud weight to control frequency; base circ. at 6:28 AM 21 Sept, at 7169; pump LCM & build mud volume; circ. at 9:15 AM 21 Sept; drilling ahead at 11:45 AM 21 Sept; presently drilling ahead*

LITHOLOGY: *Dishize - blk, fine - medium grained (to approx 7210) (prob 7195)*
Sandstone & siltstone: white red-brown, hard, well indurated, siltstone is sandy in part

FORMATION: _____ MISC: *[Signature]*



MORNING REPORT & SHOW FORM

Jim Bailey Bllcat

31

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 185-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM; 23 SEPT DEPTH 7326 PREVIOUS DEPTH 7266

DRILLED 60 FT IN 17 1/4 HOURS. DRILL RATE RANGE 2-12 ft/hr AVERAGE 3 ft/hr

WOB 38,000 LBS. RPM 55 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
13	12 1/4	Reed	FP62	7154 - 7326	172	39	
14	12 1/4	HTC	X33	7326 - present (trip in progress)	INZ	INZ	INZ

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: φ	cc,	U
					V,	SPM,	FT.
W 82 PH 11.0	7	7270	162	172			
V 43 OIL% —		7280	162	172	TRIP GAS: φ (in progress)		
F 5.0 SOL% 19%		7290	161	172			
FC 2/32 Rm —		7300	161	173	CONNECTION GAS: φ		
SD 10% Rf —		7310	163	172			
GEL 2/7 Rmc		7320	163	174			
S 700 T 170° F							

Chromatograph: C ₁ : 500-1400 ppm	AVE. 58 ppm	CO ₂ : 0-100 ppm	AVE. 25 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: φ	AVE. φ
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

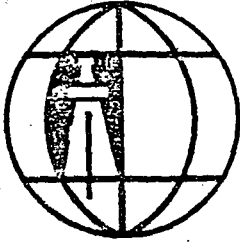
STATUS, EVENTS Drilled ahead from 6:00 AM 22 SEPT to 11:10 PM 22 SEPT;
 Trip for New Bit #14 at 11:30 PM; 6:00 AM 23 SEPT have
 NB # 14 on bottom & drilling; bottom's not up.

LITHOLOGY: Siltstone: light gray brown, light red brown, non calcareous, sandy
 in part
 Sandstone: white, gray brown; very-fine to medium grained;
 siliceous cement;

FORMATION: MISC: 9:7 # 13 frequency up before trip

John Bailey R. H. H. H.

MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124 Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM, 24 SEPT DEPTH 7482 PREVIOUS DEPTH 7326'

DRILLED 156 FT IN 23 1/2 HOURS. DRILL RATE RANGE 2-15 ft/hr AVERAGE 6 ft/hr

WOB 35-38,000 LBS. RPM 60-65 PUMP PRESSURE 1600-1800 PSI

PUMP SIZE 6 1/2 X 18 SPM 62-66

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
14	12 1/4	HTC	X33	7326-present depth	156	23 1/2	INZ.

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: 200 cc, 20 U
W 82+ PH 11.0		7370	158	171	42 V, 64 SPM, 7371 FT.
V 43 OIL% —		7390	157	171	TRIP GAS: ϕ
F 5.2 SOL% 19%		7400	158	170	
FC 2/32 Rm —		7420	154	170	CONNECTION GAS: ϕ
SD 1% RF —		7460	163	171	
GEL 2/10 Rmc —		7480	163	171	
S 700 T 172					

C4 20-5 C5 10-0

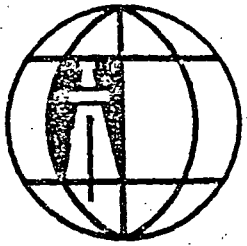
Chromatograph: C ₁ 1200-480 C ₂ 120-40 C ₃ 50-20 AVE.	CO ₂ : 0-125 AVE. extreme var
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S: ϕ AVE. ϕ
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS Drilling ahead 6:00 AM 23 SEPT to 6:00 AM 24 SEPT, except for minor pump repairs from 12:25 AM 24 SEPT to 1:05 AM 24 SEPT

LITHOLOGY: Siltstone: light red-brown, hard, sandy in part, massive-subfissile, non calcareous
Sandstone: white, gray brown; rounded-subrounded, predominantly siliceous cement with minor clay & silt matrix

FORMATION: MISC:

John Bailey Bhatt (33)



MORNING REPORT & SHOW FORM

ORE IDA FOODS
ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
DATE & TIME 6:00 AM, 25 Sept DEPTH 7590 PREVIOUS DEPTH 7482
DRILLED 108 FT IN 19 HOURS. DRILL RATE RANGE 3-12 #/hr AVERAGE 6 ft/hr
WOB 35-38,000 LBS. RPM 55-65 PUMP PRESSURE 1800 PSI
PUMP SIZE 6 1/2 x 18 SPM 64-66

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
14	12 1/4	HTC	X33	7326 - present depth	264	44 1/4	INE

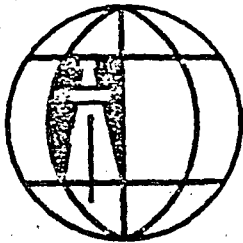
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: ϕ	cc,	U
W 82 PH 11.0		7480	162	171	V,	SPM,	FT.
V 42 OIL% —		7500	158	171	TRIP GAS: ϕ		
F 5.2 SOL% 19%		7510	156	172			
FC 2/32 Rm —		7520	159	173	CONNECTION GAS: ϕ		
SD 10% RF —		7540	161	173			
GEL 2/9 Rmc —		7560	163	170			
S 7.00 T 168		7580	160	169			

Chromatograph: C ₁ : 500-980 ppm AVE. 650 ppm	CO ₂ : 0-125 ppm AVE. 50 ppm
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S: ϕ AVE. ϕ
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE. ϕ

STATUS, EVENTS Drilled ahead 6:00 - 7:00 AM 24 SEPT, wipe hole to 7:10 AM, drill ahead to 5:00 PM 24 Sept, short trip 52 2/3 stands for washout to 9:45 PM 24 SEPT, drill ahead upfill 6:00 AM 25 SEPT.

LITHOLOGY: claystone, siltstone: light gray-brown; moderately - very soft, well hydrated; cohesive; sandy in part
clay - light brown, very soft, very soluble
Sandstone: white, hard, well indurated

FORMATION: _____ MISC: _____



MORNING REPORT & SHOW FORM

Jim Buty 2/11/77 (34)

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 6:00 AM; 26 SEPT DEPTH 7662 PREVIOUS DEPTH 7590
 DRILLED 72 FT IN 14 HOURS. DRILL RATE RANGE 2-8 ft/hr AVERAGE 5 ft/hr
 WOB 4000 LBS. RPM 65 PUMP PRESSURE 1800 PSI
 PUMP SIZE 6 1/2 x 18 SPM 66

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
14	12 1/4	HTC	X33	7326 - 7657	331	58 1/4	74-B3-I
15	12 1/4	Reed	SS2J	7657 - present depth	5	2	Inc

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: ϕ	cc,	U
W 82 PH 11.0		7590	159	168	V,	SPM,	FT.
V 45 OIL% \leftarrow		7600	153	168	TRIP GAS: 10 um's		
F 5.2 SOL% 19%		7620	157	172			
FC 2/3 Rm \leftarrow		7630	166	174	CONNECTION GAS: ϕ		
SD 1% Rf \leftarrow		7640	167	175			
GEL 2/10 Rmc \leftarrow		7650	168	176			
S 700 T 161		7660*	140				

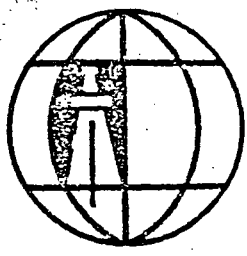
Chromatograph: C ₁ 700-950 ppm	AVE. 750 ppm	CO ₂ : 0-100 ppm	AVE. 25 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: ϕ	AVE. ϕ
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Drilled shed 6:00 AM - 8:00 PM 25 SEPT; Trip for NB #15
 8:00 PM 25 SEPT - 3:45 AM 26 SEPT; drill shed to 6:00 AM 26 SEPT.

LITHOLOGY:
 Clay: gray - gray brown; moderately - very soft, well hydrated
 Silts: gray - gray brown; micaceous, silty carbonaceous material, traces pyrite

FORMATION: *mls*
 MISC: * mud-cooling equipment installed in mud system became operational during trip. Mud in pits cooled to 95°F

John Bailey Chief (35) 7



MORNING REPORT & SHOW FORM

ORE IDA FOODS
ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
DATE & TIME 6:00 AM, 27 SEPT DEPTH 7749 PREVIOUS DEPTH 7662
DRILLED 87 FT IN 24 HOURS. DRILL RATE RANGE 2-5 ft/hr AVERAGE 4 ft/hr
WOB 38,000 LBS. RPM 65 PUMP PRESSURE 1800 PSI
PUMP SIZE 6 1/2 x 18 SPM 66

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
15	12 1/4	Reed	SS2T	7657 - present depth	92	26	Inc

MUD: DEPTH			SURV	Depth	T in	T out	CARBIDE: ϕ	cc,	U
W 82	PH	11.0		7670	145	160*	V, ϕ	SPM,	FT.
V 43	OIL%	---		7680	142	156	TRIP GAS: ϕ		
F 5.0	SOL%	19%		7690	136	154			
FC 2/32	Rm	---		7700	136	152	CONNECTION GAS: ϕ		
SD 10/0	Rf	---		7720	134	150			
GEL 2/9	Rmc	---		7730	135	150			
S 700	T	149		7740	134	150			

Chromatograph: C, 390-590 ppm	AVE. 400 ppm	CO ₂ : 0-100 ppm	AVE. 50 ppm
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S: ϕ	AVE. ϕ
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Drilled 6:00 AM 26 SEPT - 6:00 AM 27 SEPT

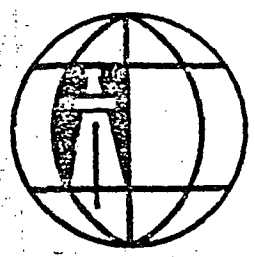
LITHOLOGY: Clay - Claystone - siltstone: light to medium gray, grey brown, moderately soft to very soft; well bedded; moderately cohesive

* Mud being cooled by tower
Mud

FORMATION: MISC:

Matutinal

~~MORNING REPORT~~ & SHOW FORM



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916-487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME Sept 28, 1979 6:00 A.M. DEPTH 7933 PREVIOUS DEPTH 7749

DRILLED 184 FT IN 24 HOURS. DRILL RATE RANGE 4-30 AVERAGE 8

WOB 25-35000 LBS. RPM 55-65 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 66

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
15	12 1/4"	REED	S52J	7656- PRESENT DEPTH	276	50	

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: \bigcirc cc,	U
W 83 PH 11.5		7770	133	148	V. SPM,	FT.
V 42 OIL% \rightarrow		7800	134	149	TRIP GAS:	
F 5.0 SOL% 2070		7830	136	149		
FC 2/32 Rm		7860	134	150	CONNECTION GAS: NONE	
SD 1 1/2 RF		7890	135	150		
GEL Rmc		7910	134	150		
S 750 T 150°		7930	135	150		

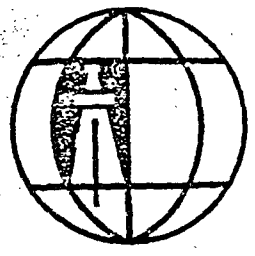
CHROMATOGRAPH C. 400-1500 ppm	AVE. 500	CO ₂ 15-150 ppm	AVE. 75
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S 0-1	AVE. 0
CUTTINGS GAS RANGE: TOTAL	AVE.	PV 0-1/2	AVE. 1/2

STATUS, EVENTS 6 A.M. - 2:30 P.M. DRILLING
 2:30 - 3:00 P.M. SHORT TRIP FOR WASHOUT (Replaced cracked joint)
 3:00 P.M. - 6:00 A.M. DRILL AHEAD

LITHOLOGY: Sandstone: very fine, volcanoclastic debris & carbonaceous mat
 siliceous cement, firm, friable, poor sorting, see blue rock frogs
 Clay white to brown, effaceous subtle color change
 Poss Fin change ~ 7775'?? butter?

FORMATION: I think it's changed MISC: Jonathan Mulder

(RB)



MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916-487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 9-29-79 12:00 A.M. DEPTH 7960' PREVIOUS DEPTH 7933

DRILLED 27 FT IN 14 1/2 HOURS. DRILL RATE RANGE 1-3 AVERAGE 1 1/2

WOB 25-35000 LBS. RPM 50-60 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 65

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
15	12 1/4	REED	552J	7656 - PRESENT DEPTH	303 ¹⁷⁶	64 1/2 ⁵⁰	Ø

MUD: DEPTH	MUA ENGINEER	SURV	Depth	T in	T out	CARBIDE:	CC,	U
W	PH NOT HERE		7930	135	150	V,	Ø SPM,	FT.
V	OIL%		40	133	151	TRIP GAS:		
F	SOL%		50	133	148			
FC	Rm		7960	131		CONNECTION GAS:		
SD	Rf							
GEL	Rmc							
S	T							

CHROMATOGRAPH C.	400-600 ppm	AVE. 500	CO ₂ 25-1500	AVE. 750
BLENDOR GAS RANGE: TOTAL		AVE.	H ₂ S 0-1	AVE. 0
CUTTINGS GAS RANGE: TOTAL		AVE.	PV 0- 1/2	AVE: 1/2

STATUS, EVENTS 6:00 A.M. - 8:30 P.M. — DRILLING * **

8:30 P.M. - MIDNITE — TWIST OFF DRILL PIPE P.O.H.

LOGGING UNIT PUT ON STANDBY AT MIDNIGHT

LITHOLOGY: CLAY & SANDY SILTSTONE

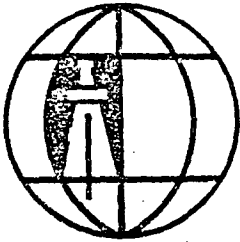
* 2d joint above collar broke — about at place where chain slips grip it; initial loss of pump pressure indicated rupture; no torquing signalled break.

FORMATION: without MISC: Jonathan G. Mulder

~ 457' in hole

ENERGY WELL LOGGING SERVICE

** Fishing service (Brown) called; made trip with



MORNING REPORT & SHOW FORM

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ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 30 Sep / 1 Oct 79 DEPTH 7960 PREVIOUS DEPTH _____
 DRILLED _____ FT IN _____ HOURS. DRILL RATE RANGE _____ AVERAGE _____
 WOB _____ LBS. RPM _____ PUMP PRESSURE _____ PSI
 PUMP SIZE _____ SPM _____

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND

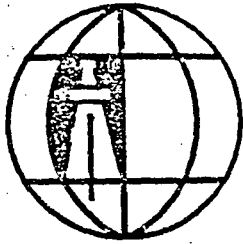
MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	cc,	U
W	PH				V,	SPM,	FT.
V	OIL%				TRIP GAS:		
F	SOL%				CONNECTION GAS:		
FC	Rm						
SD	Rf						
GEL	Rmc						
S	T						

BLENDOR GAS RANGE: TOTAL	AVE.	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV AVE.

STATUS, EVENTS *Fishing tools + tech. ass't arrived 1800 29 SEP 79; riggs up, went into hole, caught fish 2330 29 SEP 79; recovered lost tools; went back into hole; wiped hole, circulated*

LITHOLOGY: *+ came out of hole; logging commenced 2300 30 SEP 79; 1st log (dual induction) completed 0430 1 Oct 79; logging continues as of 0700 1 Oct 79.*

FORMATION: _____ MISC: *Murray Gardner*



MORNING REPORT & SHOW FORM

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ORE IDA FOODS
ENERGY LOG

3260 2nd Avenue Sacramento CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 0830 7/0ct/79 DEPTH 1960 PREVIOUS DEPTH

DRILLED FT IN HOURS. DRILL RATE RANGE AVERAGE

WOB LBS. RPM PUMP PRESSURE PSI

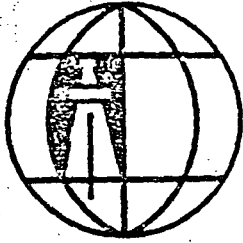
PUMP SIZE SPM

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	cc,	U
W	PH				V,	SPM,	FT.
V	OIL%				TRIP GAS:		
	SOL%						
FC	Rm				CONNECTION GAS:		
SD	Rf						
GEL	Rmc						
S	T						

	AVE.	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV AVE.
STATUS, EVENTS	Logging hole - dual induction dipmeter, fracture finder, acoustic velocity, temperature run #1 complete, neutron + temperature #2	
LITHOLOGY:	to follow; hole will be cooled prior to running neutron. 3 Oct. Logging complete at 0700. Max T. logget 282°F, about 315° on mercury thermometer. Plan to inspect collapse & drill ahead until decision to modify hole in any way.	
FORMATION:	MISC:	

* must be analyzed in Houston, w/in 36 hours.



MORNING REPORT & SHOW FORM

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ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 6:00 AM 30/79 DEPTH 7960 PREVIOUS DEPTH 7960

DRILLED 0 FT IN _____ HOURS. DRILL RATE RANGE _____ AVERAGE _____

WOB _____ LBS. RPM _____ PUMP PRESSURE _____ PSI

PUMP SIZE _____ SPM _____

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
0							

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: cc,	U
W 0 PH					V, SPM,	FT.
V OIL%					TRIP GAS: 150 (see below)	
SOL%						
FC Rm					CONNECTION GAS:	
SD Rf						
GEL Rmc						
S T						

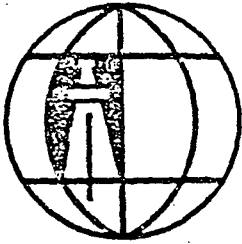
	AVE.	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV AVE.

STATUS, EVENTS Made Temp survey runs #6 & 7, circ to cool well 8:30 am - 12 mid, Rdn FDC - CNL; R/H w/ Drilling ASSY.

LITHOLOGY: Lower contact of Diabase shows at ~7140' on E-logs; 7200' ± on mud log; very poor samples 7140-7200

Max Temp Out during circ (Bottoms up) 165° F

INFORMATION: MISC: Roy Brunoth



MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10-4-79 6:00 AM DEPTH 8012 PREVIOUS DEPTH 7960
DRILLED 52 FT IN 12 1/2 HOURS. DRILL RATE RANGE 3-12 AVERAGE 5
WOB 25-35000 LBS. RPM 60-70 PUMP PRESSURE 1800 PSI
PUMP SIZE 6 1/2 x 18 SPM 63

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND.
16	12 1/4	Smith	V24J	7960 - PRESENT DEPTH		12 1/2	

MUD: DEPTH	W	V	F	FC	SD	GEL	S	PH	OIL%	SOL%	Rm.	RF	Rmc	T	Depth	in	out	CARBIDE:	CG	U
	82	45	5.2	2/32	17	3/10	750	110	—	81%				150°	7960	98	147	V,	SPM,	FT.
															70	135	152	TRIP GAS:	511	
															80	137	150	CONNECTION GAS:		
															90	138	149			
															3000	137	153			
															10	135				

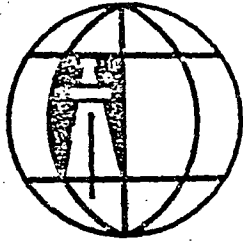
CHROMATOGRAPH C1 250-550	AVE. 350	CO2 35-200	AVE. 75
BLENDOR GAS RANGE: TOTAL	AVE.	H2S 0-1/2	AVE. 0
CUTTINGS GAS RANGE: TOTAL	AVE.	PV 0-1/2	AVE. 1/2

STATUS, EVENTS 6-8 AM Log Temp Survey 5:30^{10/3} PM - 6:00^{10/4} AM DRILL AHEAD
 8-3 PM MAGNA FLUX D.C.'S
 3-5:30 PM RIH

LITHOLOGY: SANDY SILTSTONE, CLAY

FORMATION: MISC: Jonathan Molder (RP)

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MORNING REPORT & SHOW FORM

ORE IDA FOODS
ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10/5/79 6:00 AM DEPTH 8115' PREVIOUS DEPTH 8012'

DRILLED 103 FT IN 15 HOURS. DRILL RATE RANGE 4-20 FT/HR AVERAGE 8 FT/HR

WOB 25-35000 LBS. RPM 70-80 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 1/2 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
16	12 1/4	SMITH	V2HJ	7960 - 8035'	75'	16 3/4	TSB
17	12 1/4	HTC	X3J	8035 - present	80'	11	

~~Carbide 200 cc, 5U~~

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: 200 cc, 5U U
W BH					V, SPM, 64 FT.
V 45 OIL%					TRIP GAS: 5 U
F SOL%					
FC Rm					CONNECTION GAS:
SD Rf					
GEL Rmc					
S T					

CHROMATOGRAPH C, 200-500 AVE. 300	CO ₂ 25-150 AVE. 50
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S 0-1 AVE. 0
CUTTINGS GAS RANGE: TOTAL AVE.	PV 0-1 AVE. 1/2

STATUS, EVENTS CAME OUT OF HOLE TO CHANGE BIT AT 8035

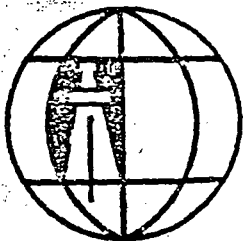
LITHOLOGY: ~~SANDSTONE~~ SANDSTONE, TUFF(?) AND SILTSTONE

FORMATION: MISC:

Geothermex

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MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10/6/79 6:00 AM DEPTH 8188 PREVIOUS DEPTH 8115

DRILLED 73 FT IN 8 HOURS. DRILL RATE RANGE 40-6 AVERAGE 9-10

WOB 25-35000 LBS. RPM 45-55 PUMP PRESSURE 1800 PSI

PUMP SIZE 6 x 18 SPM 64

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
17	12 1/4"	HTC	X3A	8035-8188	153	18 3/4	inc.

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	CC,	U
					V, <td>SPM, <td>FT. </td></td>	SPM, <td>FT. </td>	FT.
W 82 PH 11.5	Ø	8120	137	149			
V 43 OIL% Ø		8150	135	148	TRIP GAS: Ø		
F 5.0 SOL% 19		8180	137	152			
FC 2/32 Rm					CONNECTION GAS:		
SD 1 RF							
GEL 3/9 Rmc							
S 800 T							

ppm	ppm
Chromat: C ₁ 450-140 C ₂ 40-10 C ₃ tr-10 AVE.	CO ₂ 25-150 AVE. 75
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S 0-tr AVE. -
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS Drill ahead to 2:00 pm, at 8188' pick up kelly, circ, wait on order

POH 4:15 PM wait on core barrel

LITHOLOGY: SS vf-Fgr, mur m-c; qtz, fld some aqrk Frags occ con blk carb mat, tuffac - trace shards, some white devit glassy Frags ^{contact} 8134'

Altered basic igneous rock (amorphous, but unobserving of any specific name)

Gv-Gy, vf phanocritic, pred holoxln / some aphan, hypoxln? with micro-phenocrysts

Very altered. chloritized, serpentinitized, kaolinitized, some pyrite, occ slickensides

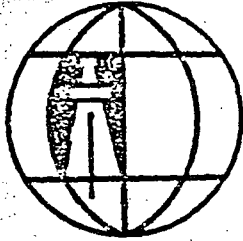
FORMATION: ~~Diabases~~ relict textures suggest similarity to previous ~~Diabases~~ Diabases + plagioclase, pyroxene, magnetite

ENERGY WELL LOGGING SERVICE

Tom Raineth

trace variolitic & trachytic

MM



MORNING REPORT & SHOW FORM

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ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916 487 9124
Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 10-7-79 6:00 A.M. DEPTH 8188 PREVIOUS DEPTH 8188
 DRILLED 0 FT IN 0 HOURS. DRILL RATE RANGE 0 AVERAGE 0
 WOB 0 LBS. RPM 0 PUMP PRESSURE 0 PSI
 PUMP SIZE 0 SPM 0

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
CB#1	9 7/8	ACC	DEPC	8188-8188	0	0	

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	U
W pH					CC, SPM,	FT.
V OIL%					TRIP GAS: 5.1	
F SOL%					CONNECTION GAS: 0	
FC Rm						
SD Rf						
GEL Rmc						
S T						

BLENDOR GAS RANGE: TOTAL	AVE.	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV AVE.

STATUS, EVENTS 6:00-3:00 P.M. WAIT ON TOOLS 11-2:30 P.M. 10/7 POH
10/6 2:00-3:00 P.M. RUN IN CORE BARREL 2:2-5:00 P.M. WAIT ON CORE BIT
8:00-11:00 P.M. WORK CORE BARREL (JAMMED) CIRCULATE

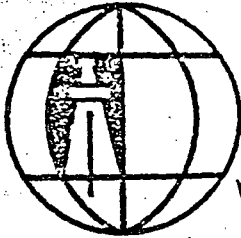
LITHOLOGY: NO FOOTAGE DRILLED IN PAST 24 HOURS

Had 156° Tin, 163° T out, when ceased circulation; max temp out was 168°
 Mud cooling unit shut off. (RP)

FORMATION: _____ MISC: Jonathan H. Milder

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MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

8260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 185-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10/8/79 6:00 A.M. DEPTH 8195 PREVIOUS DEPTH 8188

DRILLED 7 FT IN 4 HOURS. DRILL RATE RANGE 1 1/2 - 3 AVERAGE 2

WOB 18000 LBS. RPM 50 PUMP PRESSURE 1700 PSI

PUMP SIZE 6x18 SPM 51

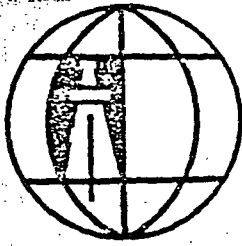
BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
CB#2	9 7/8	NCC	DIAMOND	8188 - PREV. DEPTH	7	4	

MUD: DEPTH		SURV	Depth	T in	T out	CARBIDE:	
W 83	PH 11.0		8188	135	164	CC	U
V 43	OIL% —		90	149	164	V, SPM	FT.
F 5.0	SOL% 20%		92	152	164	TRIP GAS: 10 u	
FC 2/32	Rm		94	153	165	CONNECTION GAS:	
SD 1 1/2	Rf						
GEL	Rmc						
S 200	T 123°						

CHROMATOGRAPH C, 600-750	AVE. 400	CO ₂ 25-150	AVE. 50
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S 0-1	AVE. 0
CUTTINGS GAS RANGE: TOTAL	AVE.	PV 0-1	AVE. 1/2
STATUS, EVENTS 6:00 A.M. - 7:30 A.M. WAIT ON CORE BIT		2-6:00 P.M. CUT CORE	
7:30 P.M. - 12:45 A.M. RUN IN HOLE			
12:45 A.M. - 2:00 P.M. CIRC & DROP BIT			
LITHOLOGY: "DIABASE" (WAIT TILL WE SEE CORE FOR DESC.)			

High times due to malfunction of water level to combine with

FORMATION: _____ MISC: Jonathan H Mulder



MORNING REPORT & SHOW FORM

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ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10/9/77 6:00 A.M. DEPTH 8220 PREVIOUS DEPTH 8195

DRILLED 21 FT IN 7 HOURS. DRILL RATE RANGE 2-7 AVERAGE 5

WOB 25000 LBS. RPM 55 PUMP PRESSURE 1800 PSI

PUMP SIZE 6x18 SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
CB#2	9 7/8	ACC	DIAMOND	8188 - 8215	27	8	
19	12 1/4	HTC	S21GT	8188 - 8221	33	3	

MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	CE% SPM,	U FT.
W 83	PH 11.0	8220	149	163	V,		
V 43	OIL% —				TRIP GAS:	124	
F 5.0	SOL% 20%				CONNECTION GAS:		
FC 2/32	Rm						
SD 176	Rf						
GEL	Rmc						
S 800	T 163						

CHROMATOG. ANAL. C.	AVE.	CO2	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	H2S 0-1	AVE. 0
CUTTINGS GAS RANGE: TOTAL	AVE.	PV 0-1	AVE. 1/2
STATUS, EVENTS 6:00-10:00 A.M. CUT CORE		11-6:00 A.M. CIRC FOR CASING	
10:00 A.M - 10:00 A.M. FOR GET CORE RTH			
10:00 - 1:00 A.M. DRILL TO 8221			

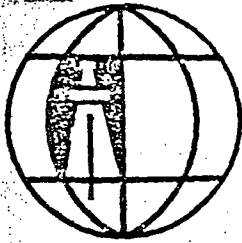
LITHOLOGY: DIABASE see log copy for descr

STAND BY - MUD LOGGERS DURING CASING OPERATIONS

FORMATION: _____ MISC: Jonathan N. Melder

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MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10/14 6:00 A.M. DEPTH 8382 PREVIOUS DEPTH 8221

DRILLED 171 FT IN 15 HOURS. DRILL RATE RANGE 3-40 AVERAGE 15

WOB 25-35000 LBS. RPM 40-45 PUMP PRESSURE 1800 PSI

PUMP SIZE 6x18 SPM 63

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
20	8 1/2	Reed	S216-J	8221 - A.D.	171	15	Ø

MUD: DEPTH	USING	SURV	Depth	T in	T out	CARBIDE:	CC	U
W	PH WATER		8230	90	112	V,	SPM,	FT.
V	OIL%		40	104	118			
F	SOL%		50	112	123	TRIP GAS:	Ø	
FC	Rm		60	117	128			
SD	Rf		70	122	130	CONNECTION GAS:	Ø	
GEL	Rmc		80	125	137			
S	T		90	132	134			
			8300	86	120			
			10	94	125			
			20	119	131			
			30	126	136			
			40	129	136			
			50	124	136			
			60	123	133			
			70	122	131			
			80	115	126			

CHROMATOGRAPH	C _i	170-2000	AVE. 300	CO ₂	25-400	AVE. 200
BLENDOR GAS RANGE: TOTAL			AVE.	H ₂ S	0-1	AVE. 0
CUTTINGS GAS RANGE: TOTAL			AVE.	FV	0-1	AVE. 1/2

STATUS, EVENTS 6-11:30 A.M. RIH

11:30-12:30 DRILL SHOE

12:30 P.M. - 6:00 A.M. DRILL AHEAD

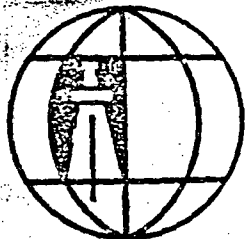
LITHOLOGY: DIABASE

possible
was indicated at 8345-8360 - test. siltstone

Jonathan H Mulder

FORMATION: _____ MISC: _____

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MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
SEC 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 6AM 10/15/79 DEPTH 8400 PREVIOUS DEPTH 8392
 DRILLED 8 FT IN 2 HOURS. DRILL RATE RANGE 12-20 AVERAGE 15
 WOB 20-25,000 LBS. RPM 60 PUMP PRESSURE 1800 PSI
 PUMP SIZE 6x18 SPM _____

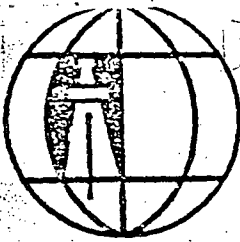
BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
20	8 1/2	REED	S21 G	8220 - 8400	180	16 3/4	
21	8 1/2	REED	FP 53J	8400			

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	cc,	U
W	PH	8390	114	122	V,	SPM,	FT.
V	OIL%	8400	108	117	TRIP GAS:	100 u	
F	SOL%						
FC	Rm				CONNECTION GAS:		
SD	Rf						
GEL	Rmc						
S	T						

CHROMATOGRAPH	200 ppm C ₁	AVE. 200	CO ₂	1000	AVE. 1000
BLENDOR GAS RANGE: TOTAL		AVE.	14.5	000	AVE. 000
CUTTINGS GAS RANGE: TOTAL		AVE.	FV		AVE.

STATUS, EVENTS 6:00 - 7:00 AM DRILL AHEAD
7:00 - 4:00 PM TRIP NR #21
4:00 - 9:00 PM REAM. UNABLE TO REACH BOTTOM - PACKING OFF
 LITHOLOGY: 9:00 - 9:30 PM PULL TO SHOE WAIT ON ORDERS FROM DOE
9:30 - 6:00 AM CIRCULATE WAIT ON ORDERS

FORMATION: DIABASE MISC: [Signature]



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME OCT 16 6AM DEPTH 8400 PREVIOUS DEPTH 8400
 DRILLED _____ FT IN _____ HOURS. DRILL RATE RANGE _____ AVERAGE _____
 WOB _____ LBS. RPM _____ PUMP PRESSURE _____ PSI
 PUMP SIZE 6x18 SPM _____

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
21	8 1/2	REED	FPS2-J	8400-			

MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	cc,	U
W 6:00 AM BH 11-2	10/15	6:00 AM	110	116	V,	SPM,	FT.
V 6:00 OIL%	10/16	6:00 AM	133	139	TRIP GAS: NONE		
F 6:00 SOL%							
FC 6:00 Rm					CONNECTION GAS: NONE		
SD 6:00 RE							
GEL 6:00 Rmc							
S 6:00 T							

CHROMATOGRAPH 200 ppm C, AVE. 100	CO2 250 ppm MAX AVE. 100
BLENDOR GAS RANGE: TOTAL AVE.	H2S 001 MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

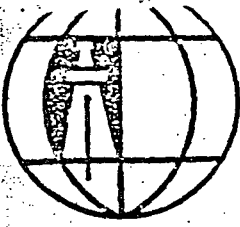
STATUS; EVENTS 6:00 AM - 9:00 AM: CIRC - WAIT ON ORDERS
 9:00 AM - 10:00 AM: LIRC - MAKE MUD
 BROKE OFF KELLY @ 6 AM PREPARE TO RTN

LITHOLOGY:

[Handwritten signature]

FORMATION: DIABASE MISC:

[Handwritten signature]



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 10/17 6AM DEPTH 8400 PREVIOUS DEPTH 8400
 DRILLED 0 FT IN 0 HOURS. DRILL RATE RANGE AVERAGE
 WOB LBS. RPM PUMP PRESSURE 1800 PSI
 PUMP SIZE 6218 SPM 50

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
21	8 1/2	REED	FP53-J	8400			

MUD: DEPTH	6:00 AM	SURV	Depth	in	out	CARBIDE:	cc,	U
W	80.5	PH	11.5	12/17	6:00 AM	118	132	V, SPM, FT.
V	46	OIL%	0					TRIP GAS: /
F	5.2	SOL%	21					CONNECTION GAS: /
FC	2/32	Rm						
SD	1/2	Rf						
GEL	2.14	Rmc						
S	700	T	128					

BLENDOR GAS RANGE: TOTAL	AVE.	CO ₂	250 ppm MAX	AVE.	1.00
CUTTINGS GAS RANGE: TOTAL	AVE.	H ₂ S	001 ppm MAX	AVE.	0.00
	AVE.	PV	0-1	AVE.	1/2

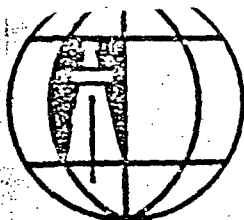
STATUS, EVENTS 6:00 AM - 6:15 AM RTH TO TOP OF FILL
6:15 AM - 8 AM CIRCULATE RETURNS W/ 68# 42V MUD
8 AM - 9:45 AM REAM TO 5310 - HOLE PACKED OFF

LITHOLOGY: STUCK PIPE
9:45 AM - 12:30 PM WORK STUCK PIPE - FREE @ 12:30
12:30 PM - 6:30 AM PULL TO SHOE - CIRC, RAISE MUD WT
CONDITION MUD

FORMATION: DIABASE - BASALT MISC:

ENERGY WELL LOGGING SERVICE

[Handwritten signatures and initials]



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

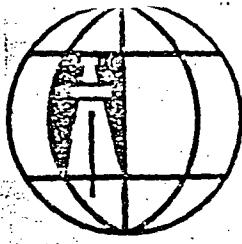
COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 10/18 DEPTH 8400 PREVIOUS DEPTH 8400
 DRILLED 0 FT IN 0 HOURS. DRILL RATE RANGE — AVERAGE ~~3400~~
 WOB — LBS. RPM — PUMP PRESSURE 1806 PSI
 PUMP SIZE 6K18 SPM 55

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
21	8 1/2	REED	FP53J	8400-8400			
					BEARINGS GONE AFTER 72 HRS CIRC		
22	8 1/2	HTC	J 44	8400			

MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	cc,	U
W 82 BH 11-5		6:00 a.m.	125	138	V,	SPM,	FT.
V 50 OIL% 0					TRIP GAS:		
F 55 SOL% 19					CONNECTION GAS:		
FC 2/32 Rm							
SD 1 RF							
GEL 3-18 Rmc							
S 650 T 140							

CHROMATOGRAPH: 100-300	AVE. 150	CO ₂ 25-250	AVE. 100
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S 0-1	AVE. 0
CUTTINGS GAS RANGE: TOTAL	AVE.	PV 0-1	AVE. 1/2
STATUS, EVENTS			
11:00 AM - 8:00 AM		RIH + REAM W 80046	
8:00 AM - 9:30 AM		CIRC	
9:30 AM - 5:00 PM		POH - ADD VARS + NR# 22 - RIH	
LITHOLOGY:			
5:00 PM - 8:00 PM		REAM	
8:00 PM - 1:30 AM		CIRC - BUILD WT + UOL	
1:30 AM - 6:00 AM		REAM W 82058	
FORMATION: BASALT			
MISC:			

ENERGY WELL LOGGING SERVICE



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No.1" Malheur Cnty, ORE
 DATE & TIME 10/19 6:00AM DEPTH _____ PREVIOUS DEPTH 8400
 DRILLED _____ FT IN _____ HOURS. DRILL RATE RANGE _____ AVERAGE ~~5400~~
 WOB 5-15,000 LBS. RPM 45 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6x18 SPM 58

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
22	8 1/2	HTC	J 44	8400			

MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	U
W 82 BH 11.2		6.00 AM	121	333	V, CC SPM,	FT.
V 47 OIL%					TRIP GAS: ○	
F 5.2 SOL% 19.7%					CONNECTION GAS:	
FC 2 1/32 Rm						
SD 4% Rf						
GEL 2.7 Rmc						
S 600 T 132°F						

CHROMATOGRAPH: 200-400	AVE. 300	CO ₂ 25-200	AVE. 100
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S 0-1	AVE. 0
CUTTINGS GAS RANGE: TOTAL	AVE.	PV 0-1	AVE. 1/2

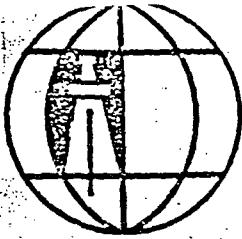
STATUS, EVENTS 6:00AM - 11:30AM REAM + CIRC
11:30AM - 12NOON SDH - 6 SHY
12NOON - 3:30AM CIRC - WAIT IN ROTARY LATCH

LITHOLOGY: 3:30AM - 4:00AM RIH
4:00AM - 6:00AM REAM

[Handwritten signature]

FORMATION: BASALT MISC: _____

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ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 10/20 6:00 AM DEPTH 8527 PREVIOUS DEPTH 8400
 DRILLED 127 FT IN 21 HOURS. DRILL RATE RANGE 2-17 AVERAGE 6
 WOB 2075 LBS. RPM 40-45 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6x7.5 SPM 59

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
22	8 1/2	H7C	J-44	8400 - P.D			

MUD: DEPTH	SURV	Depth	in	out	CARBIDE: 200 cc, 76 U
W 83 PH 11.0		84 00	122	133	V, 60 SPM, 8430 FT.
V 4/ OIL% 0		20	122	135	
F 5-1 SOL% 19		30	123	141	TRIP GAS:
		40	137	144	
		50	143	150	
FC 2/32 Rm 1.1		60	144	152	CONNECTION GAS:
		70	133	146	
SD 1/2 RF 6.1		80	135	144	
		90	134	143	
GEL 1-6 Rmc		85 00	132	142	
		10	132	142	
S 600 T 142		20	131	140	

CHROMATOGRAPH: 305 μ m MAX AVE. 50	CO ₂ 110 ppm MAX AVE. 100
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S 003 ppm MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

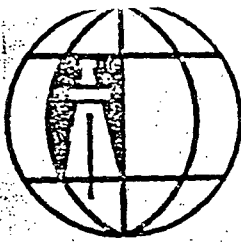
STATUS, EVENTS 6:00 AM - 8:00 AM REAM
8:00 AM - 8 PM DRILL
8:00 PM - 9:00 PM WIPE HOLE - TIGHT CUTS

LITHOLOGY: 9:00 PM - 6:00 AM DRILL
8415 - 8475 wh, gr silicious tuff + tuffaceous sediments
8475 - 8527 gn, altered basalt

Handwritten signature: Bob Morgan

FORMATION: _____ MISC: _____

Handwritten initials: MM



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10/21 10:00 AM DEPTH 8570 PREVIOUS DEPTH 8527

DRILLED 43 FT IN 1 1/2 HOURS. DRILL RATE RANGE 2-8 AVERAGE ~~3.5~~ 4

WOB 20/25000 LBS. RPM 40-45 PUMP PRESSURE 2000 PSI

PUMP SIZE 6 x 1 1/2 SPM 62

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
22	8 1/2	HTC	J 44	8400 - 8527	127'	2 1/4	—
23	8 1/2	HTC	J 44	8527 -			

MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	cc,	U
W 82.5 PH 11.0		85 30	113	133	V,	SPM,	FT.
V 43 OIL% 0		40	126	137			
F 5.2 SOL% 19.70		50	130	142	TRIP GAS:		
FC 2 1/2 Rm		60	133	144	CONNECTION GAS:		
SD 42 RF							
GEL 2-6 Rmc							
S 600 T 144							

CHROMATOGRAPH 100ppm MAX	AVE. 50	CO2 300 ppm MAX	AVE. 2.50
BLENDOR GAS RANGE: TOTAL	AVE.	H2S 0.02 ppm MAX	AVE. 0.00
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS 10:00 AM - 5:00 PM TRIP NB# 23

5:00 PM - 6:30 PM BEAM

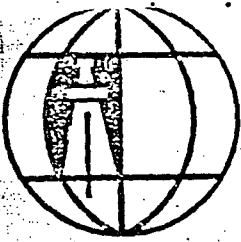
6:30 PM - 6:00 AM DRILL AHEAD

LITHOLOGY:

GN ALTERED BASALT

FORMATION:

MISC:



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 10/22 10:00 AM DEPTH 8664 PREVIOUS DEPTH 8570

DRILLED 94 FT IN 24 HOURS. DRILL RATE RANGE 1-15 AVERAGE 2.4

WOB 20-25,000 LBS. RPM 40-45 PUMP PRESSURE 2,000 PSI

PUMP SIZE 6x18 SPM 59

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
23	B 1/2	HTC	J 44	8527			

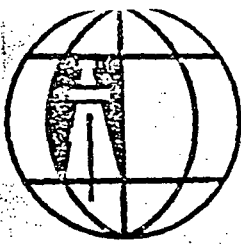
MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: cc,	U
W 85 PH 11.0		85 70	136	144	V, SPM,	FT.
V 48 OIL% —		80	132	143		
F 8.0 SOL% 20		90	136	149	TRIP GAS:	
FC 2/32 Rm		86 10	133	146		
SD 1/2 RE		20	135	147	CONNECTION GAS:	
GEL Rmc		30	136	147		
S 500 T 142°		40	140	146		
		50	133	144		
		60	132	144		

CHROMATOGRAPH 50-80 ppm MAX AVE. 60	CO ₂ 80-2000 ppm MAX AVE. 200
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S 0-1 ppm MAX AVE. 0
CUTTINGS GAS RANGE: TOTAL AVE.	PV 0-1 AVE. 1/2
STATUS, EVENTS <u>10:00 AM - 6:00 AM DRILL TIL HT 8585-8590</u>	

LITHOLOGY:

ALTERED BASALT/DIABASE

FORMATION: _____ MISC: _____



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 23 OCT 6:00AM DEPTH 8758 PREVIOUS DEPTH 8664
 DRILLED 94 FT IN 17 HOURS. DRILL RATE RANGE 4-12 AVERAGE ~~3.5~~ 6
 WOB 20-25,000 LBS. RPM 40-45 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6x7.8 SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
23	8 1/2	HTC	J-44	8527 - 8757	231	50	
24	8 1/2	HTC	J-55	8757			

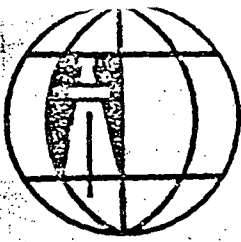
MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: 200cc, 100 U
W 8.4 BH 11.2		8670	122	142	43-V, 60 SPM, FT.
V 4.6 OIL% -		85	132	141	TRIP GAS: -
		95	128	141	
F 5.0 SOL% 1.9		8700	125	137	
		8710	124	136	
FC 2/32 Rm		20	122	136	CONNECTION GAS: -
		30	122	135	
SD 1/2 RF		40	122	136	
		50	124	133	
GEL 2-8 Rmc					
S 500 T 135					

CHROMATOGRAPH: 50 ppm MAX AVE. 50	CO ₂ 250 ppm MAX AVE. 200
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S 0.02 ppm MAX AVE. 0.05
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS 6:00 AM - 11 PM DRILL AHEAD
 11 PM - 6 AM TRIP NET 24

LITHOLOGY:
 ALTERED DIABASE / BASALT
 TEXTURE

FORMATION: MISC: *[Signatures]*



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 24 OCT 6:00 AM DEPTH 8889 PREVIOUS DEPTH 8758
 DRILLED 131 FT IN 23 HOURS. DRILL RATE RANGE 2-20 AVERAGE 3.06
 WOB 20,25000 LBS. RPM 40-45 PUMP PRESSURE 2000 PSI
 PUMP SIZE 1 1/2" x 1 1/2" SPM 56-60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
24	8 1/2	HTC	J-SS	8758			

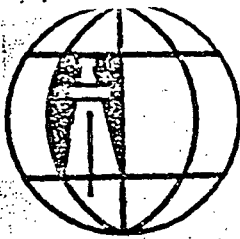
MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	cc,	U
W 84 BH 11.5		87 70	11.4	13.6	V,	SPM,	FT.
V 42 OIL%		80 90	12.5	13.4	TRIP GAS:		
F 5.0 SOL% 20		88 10	12.4	13.8			
FC 2/32 Rm		20 30	12.5	13.9	CONNECTION GAS:		
SD 1/2 RF		40 50	12.5	13.9			
GEL 2-10 Rmc		60 70	12.9	13.7			
S 600 T		80 90	13.0	14.0			

CHROMATOGRAPH	200 ppm MAX AVE. 60	PO. 400 ppm MAX AVE. 250
BLENDOR GAS RANGE: TOTAL	AVE.	MS 600 ppm MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL	AVE.	PV AVE.

STATUS, EVENTS 6:00 AM - 10:15 AM - TRIP NR# 24
10:15 AM - DRILL RIG

LITHOLOGY:
ALTERED BASALT / DIABASE TEXTURE

FORMATION: MISC:



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ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 25 OCTOBER 6:00 AM DEPTH 8999 PREVIOUS DEPTH 8857

DRILLED 110 FT IN 24 HOURS. DRILL RATE RANGE 3-20 AVERAGE 3405

WOB 25,30,000 LBS. RPM 40-45 PUMP PRESSURE 2000 PSI

PUMP SIZE 6x18 SPM 1.0

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
24	8 1/2	HTC	J-55	8758 - A.D.		47 1/2	

(MUD COOLER BYPASSED)

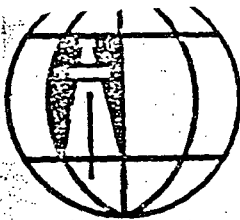
MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	cc,	U
W 84.5 BH 11.2		8890	130	141	V,	SPM,	FT.
V 50 OIL%		39 00	130	140			
F 5.0 SOL% 20		39 10	127	141	TRIP GAS:		
FC 2 Rm		39 20	125	143			
SD 3/4 RE		39 30	140	144	CONNECTION GAS:		
GEL 3-1/8 Rmc		40	140	152			
S 1100 T 160		50	148	155			
		60	144	154			
		70	150	155			
		80	144	157			
		90	152	158			

CHROMATOGRAPH	100 ppm MAX AVE. 50	CO, 370 ppm MAX AVE. 300
BLENDOR GAS RANGE: TOTAL	AVE.	H2S 001 ppm MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL	AVE.	PV 0-1 AVE. 1/2

STATUS, EVENTS 6:00 AM - 6:00 AM DRILL AHEAD (MUD COOLER BAKED IN OPERATION)

LITHOLOGY:
ALTERED BASALT

FORMATION: MISC:



ORE IDA FOODS ENERGY LOG

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3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 26 OCT 6:00 AM DEPTH 9068' PREVIOUS DEPTH 8999'
 DRILLED 729 FT IN 12 HOURS. DRILL RATE RANGE 4-15 AVERAGE ~~3.5~~ 5
 WOB 20,000 LBS. RPM 40-45 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6" 1" 3" SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
24	8 1/2	HTC	J-55	8752 - 9028	270	50 3/4	
25	8 1/2	HTC	J-44*	9028	40	7	

*J-55 preferred; not on o.t.; ordered.

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE: 200 cc, 90 U
W 84.5 PH 11.5	9028	90 00	153	160	48 V, 64 SPM, 9040 FT.
V 47 OIL%	0045	20	139	152	
F 5.0 SOL% 20		30	130	150	TRIP GAS:
FC 2/32 Rm		40	147	156	
SD 3/4 RF		50	153	160	CONNECTION GAS:
GEL 2 rts Rmc		60	154	161	
S 600 T					

CHROMATOGRAPH 200 ppm MAX AVE. 50	CO ₂ 425 ppm MAX AVE. 300
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S 000 ppm MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

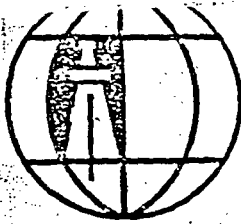
STATUS, EVENTS 6:00 AM - 11:00 AM DRILL AHEAD
 11:00 AM - 10:00 PM TRIP NB#25
 10:00 PM - 11:00 PM REAM 4 SINGLES = 120' 8" //

LITHOLOGY: 11:00 PM - 6:00 AM DRILL AHEAD

ALTERED BASALT

FORMATION: MISC: 9028 - 9068' = 40' / 7 hr; 5-6' / hr average with new bit

ENERGY WELL LOGGING SERVICE



ORE IDA FOODS ENERGY LOG

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3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS

"Ore Ida No. 1"

Malheur Cnty, ORE

DATE & TIME 27 OCT 6:00 AM

DEPTH 9217

PREVIOUS DEPTH 9068

DRILLED 149 FT IN 24 HOURS

DRILL RATE RANGE 4-12

AVERAGE ~~8.2~~ 6

WOB 20-25,000 LBS.

RPM 45

PUMP PRESSURE 2000

PSI

PUMP SIZE 6x18

SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
25	8 1/2	HTC	V-44	9028 - PD	189	35 1/2	

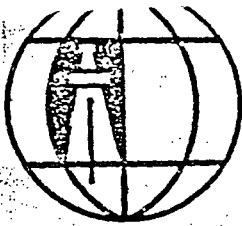
MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	CC,	U
W 85 BH 11.5		90 70	152	163	V,	SPM,	FT.
V 47 OIL%		80 70	155	162			
F 5.0 SOL% 2.0		91 10	155	160	TRIP GAS:		
FC 2/32 Rm		20 10	143	154			
SD 1 Rf		30 20	140	151	CONNECTION GAS:		
GEL 2-18 Rmc		40 30	137	149			
S 6.50 T 142		50 40	132	147			
		60 50	132	147			
		70 60	130	144			
		80 70	130	144			
		90 80	130	144			
		9200 10	130	142			
			130	142			

CHROMATOGRAPHY 40 ppm MAX AVE. 40	CD 120 ppm MAX AVE. 100
BLENDOR GAS RANGE: TOTAL AVE.	475 000 ppm MAX AVE. 606
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS 6:00 AM - 6:00 AM DRILL AHEAD

LITHOLOGY:
BASALT

FORMATION: MISC:



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 28 OCT 6:00 AM DEPTH 9301 PREVIOUS DEPTH 9217

DRILLED 84 FT IN 24 HOURS. DRILL RATE RANGE 2-15 AVERAGE ~~3-4~~

WOB 20-30,000 LBS. RPM 45 PUMP PRESSURE 2,000 PSI

PUMP SIZE 6213 SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
25	8 1/2	HTC	J-44	9028			

MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	cc,	U
W 84 PH 11.5		20	150	143	V,	SPM,	FT.
V 48 OIL%		92 30	128	142			
F 5.0 SOL% 1.9		40	120	143	TRIP GAS:		
FC 2/32 Rm		50	125	139			
SD 3/4 RF		60	123	138	CONNECTION GAS:		
GEL 3-15 Rmc		70	123	139			
S 650 T		80	124	138			
		90	128	140			
		93 00	129	140			

CHEMOTOGRAPH: 40 ppm MAX AVE. 20	CO ₂ 200 ppm MAX AVE. 100
BLENDOR GAS RANGE: TOTAL AVE.	1425000 ppm MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL AVE.	FV AVE.

STATUS, EVENTS 6:00 AM - 6:00 AM DRILL AHEAD

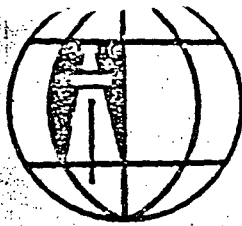
LITHOLOGY:

ALTERED BASALT TO 8242

SILTSTONE HARD BROWN-GREY

8242 - ORSEMI

FORMATION: MISC:



ORE IDA FOODS ENERGY LOG

(62)

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 185-47E

COMPANY & WELL ORE IDA FOODS

"Ore Ida No. 1"

Malheur Cnty, ORE

DATE & TIME 29 OCT 6:00AM

DEPTH 9339

PREVIOUS DEPTH 9301

DRILLED 38 FT IN 16 HOURS. DRILL RATE RANGE 2-5 AVERAGE 2 1/2

WOB 20-30/000 LBS. RPM 45 PUMP PRESSURE 2,000 PSI

PUMP SIZE 6x18 SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
25	8 1/2	HTC	J-44	9028-9305	277	5 4 3/4	
26	8 1/2	HTC	J-55	9305			

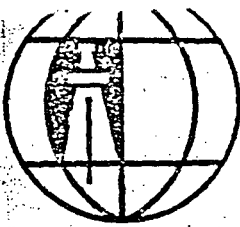
MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	U
W 84 BH 115		93 00	129	139	CC, V, SPM,	FT.
V 43 OIL% —		20	128	140	TRIP GAS:	
F 50 SOL% 19		30	130	142	CONNECTION GAS:	
FC 2/30 Rm .76						
SD 1/2 Rf .67						
GEL 2-12 Rmc						
S 600 T 142						

CHROMATOGRAPH: 40 ppm MAX AVE. 20	CO ₂ 850 ppm MAX AVE. 750
BLENDOR GAS RANGE: TOTAL AVE.	H ₂ S 000 ppm MAX AVE. 006
CUTTINGS GAS RANGE: TOTAL AVE.	FV 0-1 AVE: 1/2

STATUS, EVENTS 6:00 AM - 7:00 AM	DRILL AHEAD
7:00 AM - 3:15 PM	TRIP AB #26
3:15 PM - 6:00 AM	DRILL AHEAD

LITHOLOGY:	
BREK-P.D. 6Y SILTSTONE, SILTY SHALE	
FORMATION:	MISC:

ENERGY WELL LOGGING SERVICE



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 30 OCT 6:00AM DEPTH 9381 PREVIOUS DEPTH 9339
 DRILLED 42 FT IN 24 HOURS. DRILL RATE RANGE 2-5 AVERAGE 3.5
 WOB 20-25,000 LBS. RPM 45 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6x18 SPM 60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
26	3 1/2	HTC	J-55				

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	cc,	U
W 84 BH 11.2		93 40	130	147	V,	SPM,	FT.
V 47 OIL%		60	125	139			
F 5.0 SOL% 19		70	125	146	TRIP GAS:		
FC 2 Rm		80	125	138			
SD 2 RF					CONNECTION GAS:		
GEL 2 Rmc							
S 600 T 138							

CHROMATOGRAPH: 30 ppm MAX AVE. 20	CO2 100 ppm MAX AVE. 50
BLENDOR GAS RANGE: TOTAL AVE.	H2S 0d ppm MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

STATUS, EVENTS 6:00 AM - 6:00 AM DRILL AHEAD

LITHOLOGY:
 GY SILICEOUS SLTST-SH
 FORMATION: MISC:



MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 31 OCT 6:00 AM DEPTH 9415 PREVIOUS DEPTH 9381

DRILLED 34 FT IN 18 HOURS. DRILL RATE RANGE 2.4 AVERAGE 2 1/2

WOB 20,30,000 LBS. RPM 60-70 PUMP PRESSURE 2000 PSI

PUMP SIZE CR18 SPM 55-60

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
26	8 1/2	HTC	J-55	9305 - 9385	80	42 1/4	
27	8 1/2	REED	FP52				

MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	cc,	U
W 83 1/2 PH 11.0		9390	120	138	V,	SPM,	FT.
V 48 OIL%		9410	124	138	TRIP GAS: 4u		
F 5.0 SOL% 20			126	139			
FC 2/32 Rm					CONNECTION GAS:		
SD 3/4 RE							
GEL 2-16 Rmc							
S 600 T 137							

CHROMATOGRAPH 20 ppm MAX AVE. 20	CO2 75 ppm MAX AVE. 60
BLENDOR GAS RANGE: TOTAL AVE.	H2S 001 ppm MAX AVE. 000
CUTTINGS GAS RANGE: TOTAL AVE.	PV AVE.

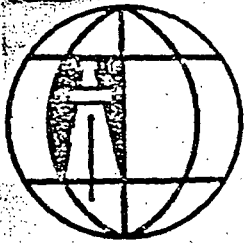
STATUS, EVENTS 6:00 AM - 9:45 AM DRILL AHEAD
 9:45 AM - 4:15 PM TRIP NB #27
 4:15 PM - 6:00 AM DRILL AHEAD

LITHOLOGY:
 GY SLTST. SH

FORMATION: MISC:

Tom Bruneth 11/1/79

MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 185-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 6:00 AM 11/1/79 DEPTH 9456 PREVIOUS DEPTH 9415
 DRILLED 41 FT IN 23 HOURS. DRILL RATE RANGE 4-1.8 AVERAGE 2
 WOB 25-30,000 # LBS. RPM 45-50 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6 x 18 SPM 61

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
27	8 1/2"	Reed	FP52	9382-9456	74	37	INC

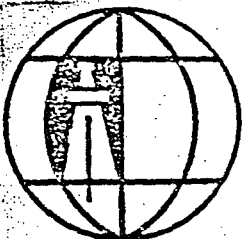
MUD: DEPTH	SURV	Depth	in	out	CARBIDE:	U
W 83 PH 11.0		9420	118	134	V, cc	SPM, FT.
V 45 OIL% 0		30	121	136	TRIP GAS: 0	
F 5.0 SOL% 19		40	123	137		
FC 2/32 Rm		50	127	139	CONNECTION GAS: 0	
SD 3/4 Rf						
GEL 2/15 Rmc						
S 600 T						

Chromat 10 ppm G	AVE.	CO ₂ 25-500	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S 0	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	SV	AVE.

STATUS, EVENTS Drilling ahead 7:00 AM - 8:00 AM 10/31 work on surface
Drilling ahead from 8:00 AM 10/31 to 6:00 AM 11/1

LITHOLOGY: Sltst. lt-m brgy Fgr, hd, britl; com m-c slt size
wh ang tuffac matl, tr qtz, tr vf pyr microspheres

FORMATION: ? MISC:



ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento, CA 95817 916/487-9124
Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 6:00 Am 11/2/79 DEPTH 9555 PREVIOUS DEPTH 9456
 DRILLED 99 FT IN 24 HOURS. DRILL RATE RANGE 12-1.5 AVERAGE 4
 WOB 25-30000 LBS. RPM 55-60 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6 x 18 SPM 62

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
27	8 1/2"	Reed	FP52	9383 - 9555	172	61	INC

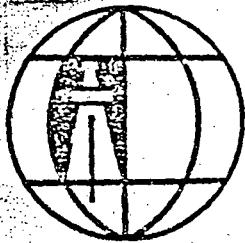
MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE: 200 cc, 9 U
W 84 BH 11.0		9460	127	138	42 V, 51 SPM, 9477 FT.
V 45 OIL% \emptyset		70	127	141	TRIP GAS: \emptyset
F 5.0 SOL% 19		80	128	146	
C 2/32 Rm		90	127	139	CONNECTION GAS: \emptyset
SD 3/4 9/16 RF		9500	125	139	
GEL 2/15 Rmc		10	124	137	
S 600 T		20	125	137	

30 125 138 95.50 125/138
 40 125 138

Chromatograph: virtually nil	AVE.	CO ₂ 300-25 ppm	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S \emptyset	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS *Drilling ahead*

LITHOLOGY: Siltst as previous to 9478' Tuff 9478' to 9488' Wh, vF grain, Ft & lenticular to firm sl. bit; occ sme brn glass shards, occ chal vns 9488' to 9498' Peculiar ft on alt siliceous? volc-tuff with wh, euhedral, alt-ft in turbid matrix abundance 9498-9502 Siltst as previous with brn c. 9502-9514 Tuff-9514- Pres Alt. Basalt an. vF phaner, holoxl fld-cortex-frag/crta; FORMATION: *Guiver Sabre?* MISC: *c. xlv-calcite v & serp/sks*



MORNING REPORT & SHOW FORM

ORE IDA FOODS ENERGY LOG

3260 2nd Avenue Sacramento CA 95817 916/487-9124
Sec 3, 188-47E

(63)

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE
 DATE & TIME 11/3/79 DEPTH 9642 PREVIOUS DEPTH 9555
 DRILLED 87 FT IN 16 1/2 HOURS. DRILL RATE RANGE 12-2 AVERAGE 5.5
 WOB 25-30000 LBS. RPM 45-50 PUMP PRESSURE 2000 PSI
 PUMP SIZE 6 x 18 SPM 62

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
27	8 1/2	Reid	FP52	9383 - 9573	190	64 1/2	5/5/1
28	"	HTC	J-55	9573 - 9642	69	13	INC

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	U
W BH		9560	125	139	V, cc SPM,	FT.
V OIL%		70	118	139	TRIP GAS: cc	
F SOL%		80	125	140		
C Rm		90	117	136	CONNECTION GAS:	
SD RF		9600	122	140		
GEL Rmc		10	129	142		
S T		20	130	140		

30 130 140 9540 129-140

Chromat - 70 ppm G ₁	AVE.	CO ₂ 12-450 ppm	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S cc	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

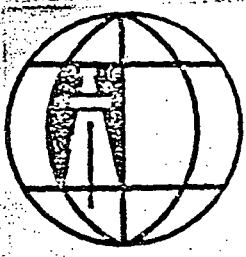
STATUS, EVENTS POH for NB 28 @ 9:30 AM 9573' bottom 5:10 PM
 12/79 (No remaining) Drill ahead

LITHOLOGY: Altered "Basalt" to 9564. Siltst to 9580 Tuff to 9585
 Altered "Basalt" to present All as previous

FORMATION: MISC:

Rev Brewette

MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

68

3260 2nd Avenue Sacramento, CA 95817 916/487-9124

Sec 3, 188-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 11/4/79 6:00 AM DEPTH 9703 PREVIOUS DEPTH 9642

DRILLED 61 FT IN 19 1/2 HOURS. DRILL RATE RANGE 9-1 AVERAGE 3

WOB 25-30000 LBS. RPM 45/50 PUMP PRESSURE 2000 PSI

PUMP SIZE 8 X 18 SPM 62

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
28	8 1/2"	HTC	J-55	9573-9703	130	32 1/2	INC

MUD: DEPTH	SURV	Depth	T _{in}	T _{out}	CARBIDE:	OC,	U
W 83 1/2 BH 1102		9650	127	139	V,	SPM,	FT.
V 41 OIL% 0		60	105	129	TRIP GAS:		
F 5.0 SOL% 18		70	118	134	CONNECTION GAS:		
FC 2/32 Rm		80	124	137			
SD 3/4 98 RF		90	125	136			
GEL 2/12 Rmc		9700	125	137			
S 600 T							

Chromat: 10 ppm Ci	AVE.	CO ₂ 12-200 ppm	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S 0	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

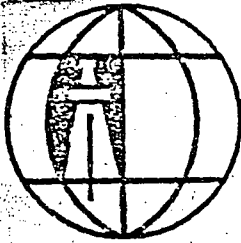
STATUS, EVENTS 9:00 AM to 1:30 pm POH to shoe & work on pumps @ 9656
Drilling Ahead

LITHOLOGY: Altered "basalt" - some f-m gr. phaneritic & less alt

FORMATION: _____ MISC: _____

Roy Brunetta

MORNING REPORT & SHOW FORM



ORE IDA FOODS ENERGY LOG

(6)

3260 2nd Avenue Sacramento, CA 95817 916 487-9124

Sec 3, 18S-47E

COMPANY & WELL ORE IDA FOODS "Ore Ida No. 1" Malheur Cnty, ORE

DATE & TIME 11/5/79 6:00 AM DEPTH 9791 PREVIOUS DEPTH 9703

DRILLED 88 FT IN 24 HOURS. DRILL RATE RANGE 15-1.5 AVERAGE 3.7

WOB 25-30000 LBS. RPM 45-50 PUMP PRESSURE 2000 PSI

PUMP SIZE 6x18 SPM 62

BIT #	SIZE	MAKE	TYPE	INTERVAL	FEET	HOURS	COND
28	8 1/2	HTC	J-55	9573-9791	218	56 1/2	INC

MUD: DEPTH	SURV	Depth	T in	T out	CARBIDE:	cc,	U
W 83 1/2 PH 1103		9710	125	138	V,	SPM,	FT.
V 43 OIL% 8		20	125	138	TRIP GAS:		
F 5.0 SOL% 18		30	125	139			
FC 2/32 Rm		40	127	140	CONNECTION GAS:		
SD 3 1/8 RF		50	130	142			
GEL 2/14 Rmc		60	130	142			
S 600 T		70	129	141			
		80	131	142			
		90	130				

Chlorine in 10 ppm Cl	AVE.	CO ₂ 25-400 ppm	AVE.
BLENDOR GAS RANGE: TOTAL	AVE.	H ₂ S	AVE.
CUTTINGS GAS RANGE: TOTAL	AVE.	PV	AVE.

STATUS, EVENTS Drill ahead

LITHOLOGY: Alt "Basalt" to 9722; siltst. brwn, mod-v hd. of silicous to 9728, "Basalt" to 9741, siltst to 9753. Tuff lt au-brn, hd-sft aplian, devit, spec/vf wh xls to 9770; "Basalt" from 9770 to pres

FORMATION: MISC: