GL04475_18

THE ANALYSTS
Schlumberger

ANCHORAGE, ALASKA VENTURA, CALIFORNIA DENVER, COLORADO

COMPANY GETTY OIL COMPANY
WELL COLADO USL-44X-10
FIELD OR AREA COLADO KGRA
LOCATION SECTION 10 27N 32 E MDBHV

COUNTY PERSHING STATE NEVADA
ELEVATION 4213' K.B.4240'
SPUD DATE 3/13/81 FINAL DATE 5/4/81
TOTAL DEPTH 7965'
DRILLING CO. BRINKERHOFF PUSHER
REMARKS

LOGGING PERSONNEL TAD TOMKO GERRY MILHOLLAND
DON KIETMAN W.H.FRIDLEY

DATE BEGUN 3/17/81 DATE RELEASED 5/4/81
INTERVAL LOGGED 1215'- 7965' FOOTAGE 6750'
SERVICES PERFORMED CONVENTIONAL LOGGING, CHROMATOGRAPH, TEMPERATURE IN & OUT, H_2S, MUD DUCK, SHALE DENSITY, CO_2

HOLE SIZE	
SIZE	DEPTH
17"	1220'
12 1/2"	5977'
8 1/2	7965

CASING RECORD		
SIZE	DEPTH	FOOTAGE
13 3/8"	1215'	1215'

MUD TYPE GEL / WATER w BEN-X

ABBREVIATIONS

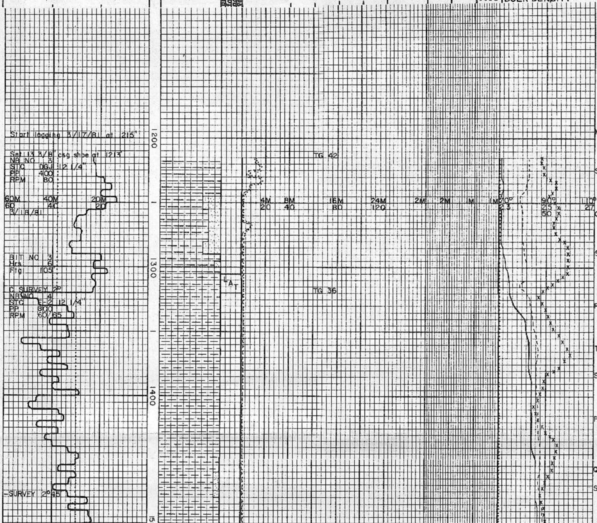
NB	NEW BIT	CG	CONNECTION GAS
NCB	NEW CORE BIT	COR	CORRECTED DEPTH
NR	NO RETURNS	WT	MUD WEIGHT
CO	CIRCULATE OUT	VIS	VISCOSITY
DST	DRILL STEM TEST	WL	WATER LOSS
PR	POOR RETURNS	Cl	PPM CHLORIDE
TG	TRIP GAS	NaCL	SOD. CHLORIDE
LAT	LOGGED AFTER TRIP	Rm	MUD RESISTIVITY

Gas detector is calibrated to record 100 units w/mixture of 2% methane in air

"The Analysts, Inc., does not warrant the accuracy or correctness or any interpretation, recommendation or measurement contained herein. The interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule."

▨ QUARTZ	▤ SILTSTONE	⠿ CONGLOMERATE	⋀ CHERT	⋁ VOLCANICS
☰ PHYLLITE	▦ LIMESTONE	▧ DOLOMITE	☒ FELSIC INTRUSIVE	S S S SERICITE

DRILLING RATE	LITHOLOGY	OIL	MUD GAS ANALYSIS—CHROMATOGRAPH IN PPM					CUTTINGS ANALYSIS	DESCRIPTION AND REMARKS
DRILL RATE (FT/HR OR MIN/FT) ~~BIT WT IN THOUS~~ DRILLING DATA		poor fair good very good	C-1 ---- TOTAL GAS ···· PET. VAPORS ——	C-2	C-3	C-4	CO_2 H_2S	TOTAL ····· PV —— TEMP IN — OUT ---- BULK DENSITY xxxxx	



MUD TYPE
GEL / WATER w BEN-X

SLATE dk gy tr lt gy v hd blky ang sl mica v calc occ qtz veins w/tr pyr

QTZ mlk wh clr vein qtz sl grdng to qtzite w/ sl tr pyr

SLATE dk gy v hd v ang blky-sl plty v calc sl mica bcmng sl phyllitic w/ abunt qtz w calc vein filling w/tr pyr

PHY dk gy-blk vhd vang blky-sub plty micmica grdg to slate sme qtz & calc vns occ intbdd w/qztz

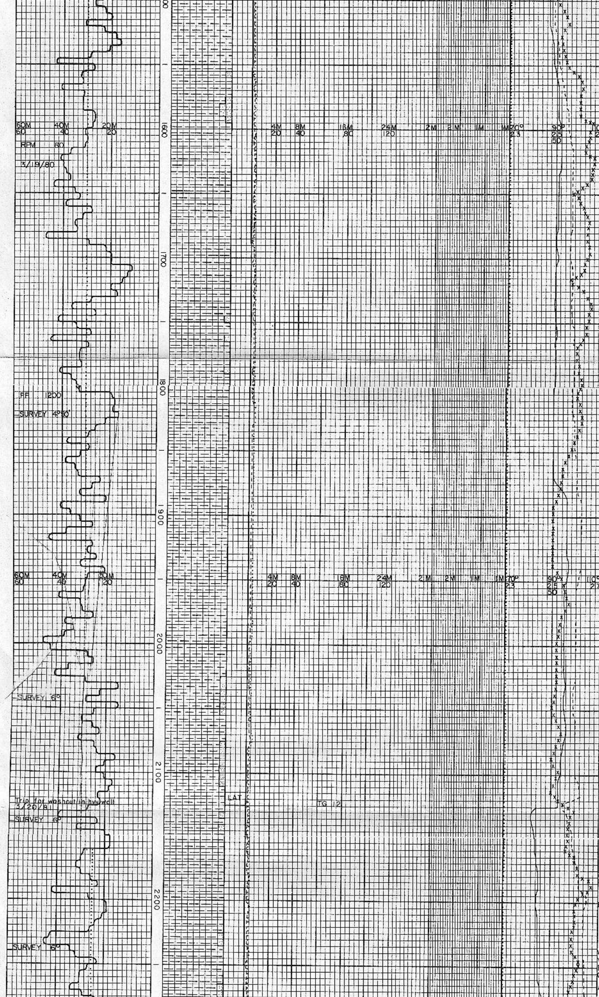
TR qztz wht vhd blky ang abnt pyr

SLATE dk gy-occ blk m-vhd vang sub blky-plty sl-m mica grdg to phy sme qtz & calc frac fill w/tr pyr

PHY blk-occ dk gy vhd vang blky-sub plty mic mica occ grdg to slate sme qtz & calc vns occ intbdd w/ qztz

QTZ wht vhd blky vang vpyr

SLATE dk gy m-vhd blky vang grdg to phy sme qtz & calc frac fill w/tr pyr



CARBIDE LAG
36U 28Min 61SPM

WT	8.6	pH	12
VIS	30	WL	NC
FC	1	SOL	2
Cl-	2	YP	7

PHY dk gy v hd v ang sl-v' slaty v blky sl-v micmica v calc w/occ calc frac fill w/sl tr pyr

PHY dk gy v hd blky-sl plty lam ang v calc micmica w/abunt qtz w calc frac fill

SLATE dk gy v hd blky-sl plty sl fiss v calc w sl-abunt calc frac fill sl-m phy

PHY dk gy v hd blky-occ fiss sl-v slaty m-v micmica w/sl tr pyr in frac

PHY dk gy v hd blky-plty occ fiss v calc slaty occ v micmica w/calc frac fill w/tr pyr

PHY dk gy v hd plty-blky ang sl fiss slaty v mica w/occ calc tr pyr tr qtz frac fill

WT	8.7	pH	10.5
ViS	35	WL	NC
FC	2	SOL	2
Cl-	100	YP	7

QTZ milky clr vein w/occ abunt calc tr pyr

PHY dk gy v hd blky-sl plty v ang sl fiss v slaty v calc w/tr calc w sl tr qtz

PHY dk gy vhd blky-sl plty vang sl fiss sl-mslaty tr calc & qtz fracfill w/sme pyr v mica w/occ fol

PHY dk gy vhd blky-sl plty vang sl fiss sl-mslaty sme qtz vns calc fracfill sl tr pyr v mica w/occ fol

TR qztz wht hd vcalc blky vang

PHY dk gy-blk vhd blky-sl plty vang sl fiss sl slty sme qtz & calc vns sl pyr vmica w/occ fol sme intbdd w/qztz

PHY dk gy-blk vhd blky-sl plty vang sl fiss sl slaty occ qtz & calc vns w/sme pyr mica w/occ fol tr intbdd qztz

PHY dk gy-blk vhd blky-sl plty vang sl fiss sl slaty occ qtz & calc vns w/sme pyr mica w/occ fol tr intbdd qztz

CALC wht hd ang

QTZ lt gy-wht sme lt bn hd blky vang calc

PHY dk gy-blk vhd calc blky-sub plty vang sl fiss mslaty sme qtz & calc frac fill w/tr pyr mica w/occ fol

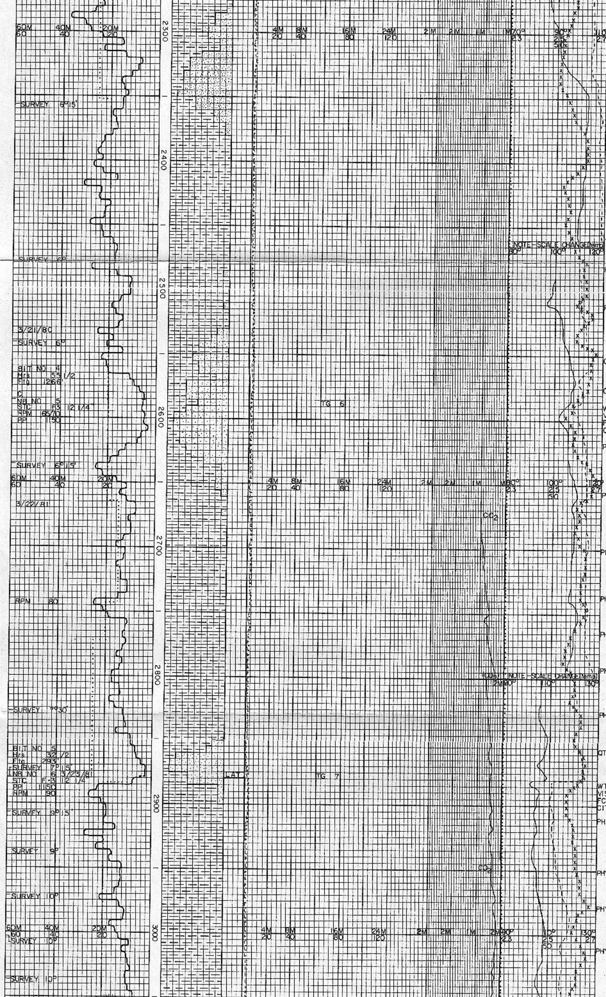
QTZ gn wht rd hd blky calc vang sme pyr

PHY dk gy vhd v plty-blky sl-v calc occ fiss sl slaty micmica-tr flake mica w/cont tr calc occ tr pyr

PHY dk-lt v hd plty-blky sl-v fiss calc micmica occ tr bndng w calc w mica w/tr thnly bd poss schist

WT	8.7	pH	7.6
VIS	30	WL	NC
FC	2	SOL	2
Cl-	100	YP	7

ABUNT calcite w tr pyrite



QTZ milky wh ang abunt calc w/tr pyr

CARBIDE LAG
23u 37min 60 spm

QTZ wh milky v ang op w abunt qtz w abunt xln pyr w/ tr calc

PHY gy-blk mhd plty-blky ang sl mic mica tr bnd w/calc qtz frac fill

QTZ palegy-wht vhd sme sl bnding w/calc occ pyr

PHY dkgy hd blky vang sl fiss m slaty sl mica w/tr fol occ bnding w/calc tr pyr

PHY dk gy-occ blk hd blky-sl plty sl fiss vang m slaty sl-m mica w/sme fol occ bnding w/calc sl-m pyr tr qtz frac fill

TR qtzt wht-occ vltgy vhd blky ang sl bnding w/calc

PHY dkgy-blk hd blky-sl plty sl fiss vang m slaty sl mica w/ tr fol sme bnding w/calc tr pyr & qtz frac fill

PHY dk-m gy v hd blky-plty occ sl fiss v-sl calc sl-v slaty occ v micmica tr fol w bndng w/tr pyr qtzt

QTZ milky wh smky blky trnsl-op w/xln pyr tr calc

CARBIDE LAG
26u 42min 60 spm

WT	8.9	pH	8.6
VIS	35	WL	NC
FC	2	SOL	2
Cl⁻	100	YP	7

PHY dkgy-blk m-vhd plty-blky sme sl fiss vang m slaty sl-m micmica tr pyr w qtz & calc vns

PHY dk gy blk v hd plty-blky occ sl fiss bcmng v slaty sl-tr v micmica sl-m calc w/qtzt tr pyr tr calc

PHY dk gy blk v hd blky-sl plty tr fiss v slaty sl micmica calc w/cont tr pyr calc qtzt

PHY dk gy blk v hd sl plty-blky v slaty sl micmica calc w/tr pyr calc

PHY dkgy-blk vhd plty-blky m slaty m-occ sl mica tr calc-pyr-qtz

PHY blk-occ dkgy m-vhd plty-blky sme sl fiss m slaty sl-m mica w/tr fol tr pyr tr qtz vns

PHY blk-dkgy m-vhd plty-blky sme sl fiss m-vang m slaty sl-m mica w/tr fol tr pyr tr qtz vns

QTZT lt-dk gn dkgy tr wht vhd ang trnsl-op w/pyr & mafic inclu poss abunt chlorite

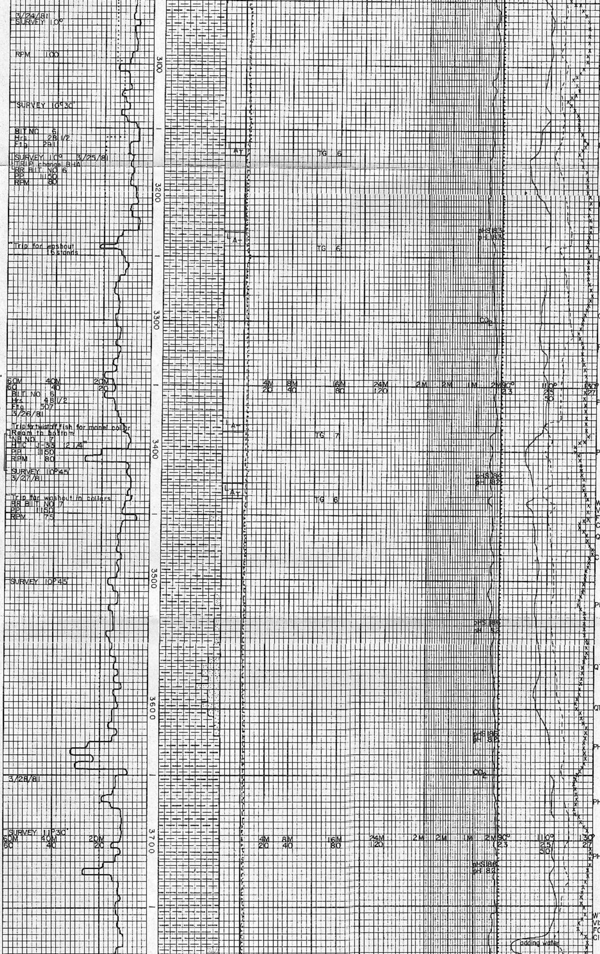
WT	8.8	pH	8.3
VIS	35	WL	NC
FC	2	SOL	3
Cl⁻	100	YP	10

PHY dk gy blk v hd plty-blky sl fiss v slaty sl-m micmica calc v frac w calc frac fill w/occ qtz tr chlor sl tr pyr

PHY dkgy-blk hd blky sme fiss ang occ pyr mic mica qtz & calc frac fill

PHY dkgy-blk m-vhd blky-plty vang m slaty sl-mod mica w/tr fol sme qtz & calc frac fill

PHY dkgy-occ blk vhd blky-sl plty m brit vang m-v slaty sl-m mica w/sme fol occ mic pyr sme qtz vns



PHY dkgy blk v hd blky v ang sl fiss sl-v mica v slaty sl frac w tr calc frac fill w/sl tr pyr

WT	8.8	pH	8.4
VIS	35	WL	NC
FC	2	SOL	3
Cl⁻	100	YP	6

PHY dk-m gy v hd plty-blky sl fiss m-v micmica slaty calc w/sl tr pyr qtz calc chlor

PHY dk gy blk v hd blky-sl plty sl-occ v micmica v slaty calc occ sl frac w tr calc frac fill w/occ pyr

PHY dk gy blk v hd plty-blky v ang sl fiss sl-m calc sl micmica tr fol w/tr calc

PHY dk gy, gy blk hd blky-slty sil-mod calc micmica slky lstr w/dis pyr calc vn fill, qtz vn fill

QTZT lt-dk gy blky v ang occ gnular v ind pred qtz

PHY dk gy blk v hd plty-blky tr fiss sil-m calc sl-m micmica w/tr fol pyr calc frac fill

PHY dk gy, gy v hd blky sl fiss sil micmica slky-grsy lstr tr pyr occ calc frac fill

PHY dk-m gy v hd plty-blky occ sl fiss sil-calc sl micmica w/occ calc frac fill w/tr fol

WT	8.7	pH	8.1
VIS	35	WL	NC
FC	2	SOL	2
Cl⁻	70	YP	7

QTZT dk gy wh v ang v gnular v ind

CARBIDE LAG
44u 63min 61 spm

PHY dk gy, m gy v hd blky slty sil-mod calc mica w/occ abnt calc frac fill

QTZT mlky wh lt-dk gy v hd gnular calc inpt sl frac pred qtz

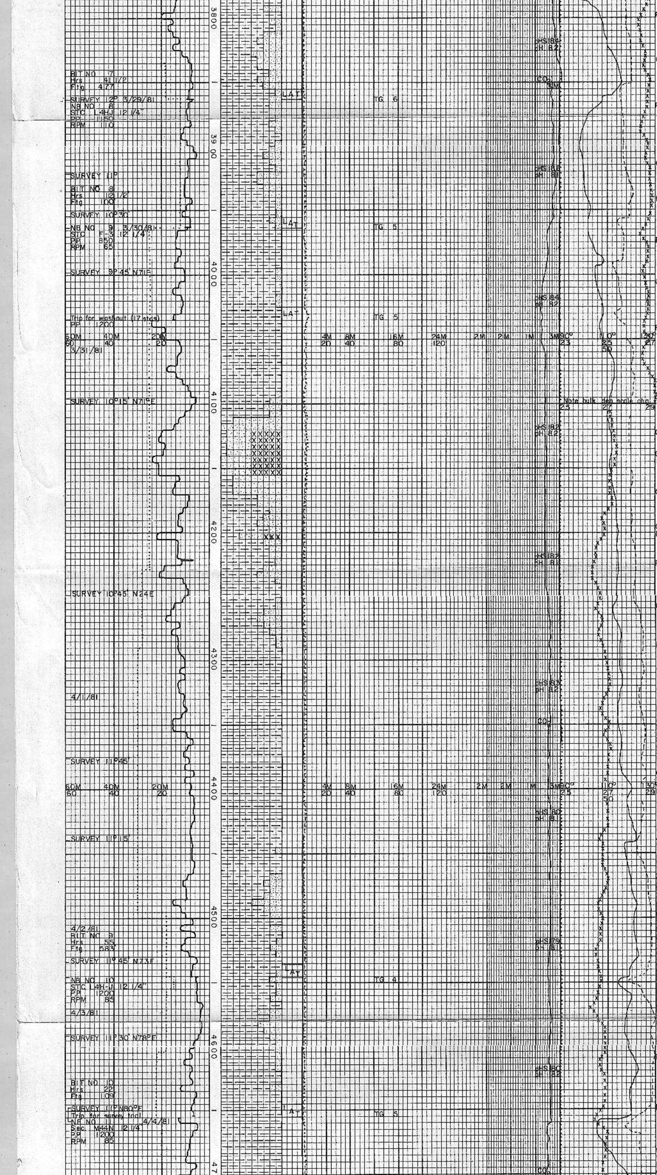
QTZT lt-dk gy wh v hd gnular w/tr calc pyr

PHY dk gy blk v hd plty-sl blky sl slty m-v micmica occ tr fol w/tr qtz calc sl tr pyr

PHY dk gy occ blk hd-v hd plty-occ blky sil-v calc slaty v micmica sl fiss sl fol w/tr calc frac fill v sl tr pyr

PHY lt-dk gy hd-v hd plty sl fiss sl slaty sil-sl calc bcmng v micmica sl frac w calc frac fill w/sl tr pyr qtz

WT	8.7	pH	8.2
VIS	34	WL	NC
FC	2	SOL	2
Cl⁻	70	YP	10



BIT NO 7
Hrs 41 1/2
Ftg 477

SURVEY 12° 3/29/81

NB NO 8
STC L4HJ 12 1/4"
PP 1150
RPM 110

SURVEY 11°

BIT NO 8
Hrs 12 1/2
Ftg 100

SURVEY 10°30'

NB NO 9 3/30/81
STC F-3 12 1/4"
PP 850
RPM 65

SURVEY 9°45' N71E

Trip for washout (17 stds)
PP 1200

3/31/81

SURVEY 10°15' N71°E

SURVEY 10°45' N24E

4/1/81

SURVEY 11°45'

SURVEY 11°15'

4/2/81
BIT NO 9
Hrs 55
Ftg 583

SURVEY 11°45' N73E

NB NO 10
STC L4H-J 12 1/4"
PP 1200
RPM 85

4/3/81

SURVEY 11°30' N78°E

BIT NO 10
Hrs 22
Ftg 109

SURVEY 11° N80°E
Trip for survey tool
NB NO 11 4/4/81
Sec. M44N 12 1/4"
PP 1200
RPM 85

PHY gy-dk gy hd blky sil- occ calc frac occ gran tex schist. fol. inpt abnt qtz & calc frac fill

QTZ cl- mlky wh opg- trnsl ang, frac, occ cryst tr pyr

PHY lt gy - gy hd-v hd blky sil, occ calc gran tex occ mica w/calc & qtz vn fill tr diorite

QTZ clr- mlky wh hd trnsl ang occ cryst w/occ abnt calc tr pyr

PHY lt gy blk hd-v hd plty v ang occ v slky lstr v micmica occ gnular occ fol w/calc frac fill

PHY gy, dk gy-blk frm-v hd blky-sl fiss mica inpt gran sil, w/occ abnt calc frac fill tr pyr

QTZ clr-mlky wh, trnsl ang frac w/occ calc tr pyr

PHY dk-m-lt gy v hd plty- blky occ sl fiss slky lstr sl-m sug sl calc v-sl micmica sl frac w/calc xln qtz frac fill sl tr xln pyr

QTZ dk gy mlky wh v ang op-trnsl sl calc inpt w/abunt dk brn v ang trnsl glsy sil min

CARBIDE LAG
43u 74min 59 spm

QTZ MONZ wh dk gy tr col v ang pred op-tr trnsl w/abunt vein min poss biot feld etc w/tr pyr chlor

QTZ dk gy mlky wh v ang op tr xln w/tr calc frac fill

QTZ DIOR. blk, wh, lt gn m-c hd pred felds, bio, amph frac w/qtz & calc vn fill

PHY lt gy-gy hd blky gran v mica inpt occ calc frac tr pyr

QTZ cl-mlky, lt gy hd ang frac occ cryst tr pyr tr chlor schist

PHY m-dk-lt gy v hd plty-sl blky v sil-sl calc occ micmica v slky lstr sl fol bcmng gnular w/ v sl tr qtz calc frac fill

PHY m-lt gy sl gn v hd-frm plty v sil sl micmica bcmng v gnular w resns lstr occ v sug

WT 8.8 pH 8.2
VIS 35 WL NC
FC 2 SOL 3
Cl⁻ 70 YP 10

PHY lt gy v hd-hd plty-sl blky ang v sil occ sl-v. gnular sl micmica occ tr sug w/tr calc qtz frac fill tr chlor

TR weld. tuff lt gy hd-fri v fn gran- plty fnt yel min flor

QTZ cl- mlky, lt gy trnsl hd frac w/occ abnt calc tr pyr

PHY lt gn, gy-lt gy hd sil plty- blky slky lstr mica inpt frac w/ calc frac fill occ gran-suc tex

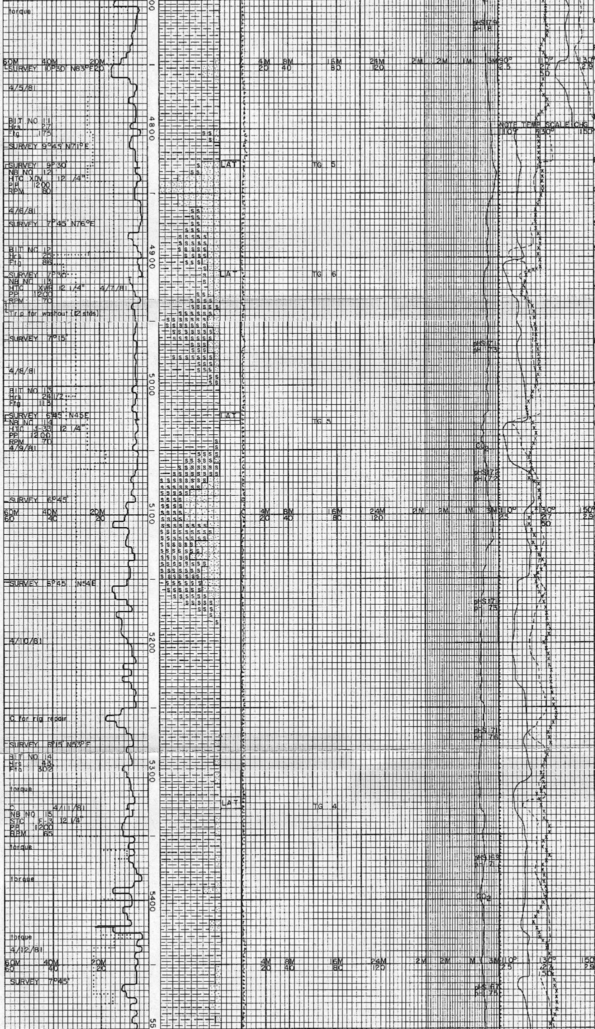
QTZ cl, mlky, trnsl hd blky frac w/occ calc pred amor, occ cryst tr pyr tr chlor

PHY lt-dk gy hd blky-plty mica inpt sil w/abnt qtz & calc frac fill

PHY lt-m gy tr blk v hd v plty v ang sil occ sl micmica v suc tex occ gran w/ tr calc frac fill

PHY lt-dk gy v hd v plty-tr blky ang v sil tr gran xln v suc tex w/sl tr pyr calc frac fill

WT 8.7 pH 8.2
VIS 33 WL NC
FC 2 SOL 2
Cl⁻ 70 YP 7



CARBIDE LAG
55u 88min 59spm

PHY lt gy-dk gy hd blky-plty occ calc mica inpt, occ gran texsl tr pyr

QTZ wh clr lt gy ang op sl frac w calc abunt pyr

PHY lt gy-dk gy v hd-hd plty ang v sil occ v micmica suc tex w tr fol w calc frac fill

PHY lt gn -lt gy v hd plty ang sil tr sl micmica bcmng v sug w/sl tr pyr tr calc

QTZT lt gy, buff wh, lt brn hd f-vf gr sil suc tex micmica occ lim stn tr pyr w/chlor sericite intbd

SLATE dk brn dk gy hd-v hd v blky v ang sil w calc lam occ tr micmica lam

SERIC wh gn plty ang v fiss v micmica w/meta min chlor, musc v fol v plty grsy lstr ; w tr xln qtz

SERIC wh, lt gn, lt brn plty fiss micmica grsy lstr fol w/occ intbd f grn mica qtzt occ qtz frac fill

PHY lt-dk gy hd-v hd v plty tr sl blky v sil occ fol v fiss v micmica w/tr qtz calc tr brn xln incl

WT	8.7	pH	8.2
VIS	32	WL	NC
FC	2	SOL	2
Cl⁻	70	YP	7

PHY m-dk gy hd-v hd v plty sil occ fol v-sl fiss occ sl micmica w/tr calc qtz frac fill

SERIC lt-dk gn wh frm-v hd v plty v-sl fiss shny sil micmica w/qtz brn xln incl

QTZ brn clr wh lt gn v ang trnsl-op v shny-occ tr gran w/abunt min w/ tr calc qtz xln

SERIC lt gn wh lt gy frm-fri occ hd plty fiss fol micmica sil w/occ hd blky vf gr qtzt tr pyr

PHY dk-lt gy v hd v plty ang v-sl fiss sil-occ sl calc v micmica sl-v slky lstr fol w/calc frac fill occ tr qtz

WT	8.6	pH	8.2
VIS	33	WL	NC
FC	2	SOL	2
Cl⁻	70	YP	6

CARBIDE LAG
22u 90min 59spm

PHY dk gy-gy hd blky, occ fiss sil micmica w/ calc frac fill, occ qtz

PHY dk-m gy hd-v hd v plty fiss sil-occ calc lam v micmica suc tex fol w/calc tr qtz frac fill occ v sl tr pyr

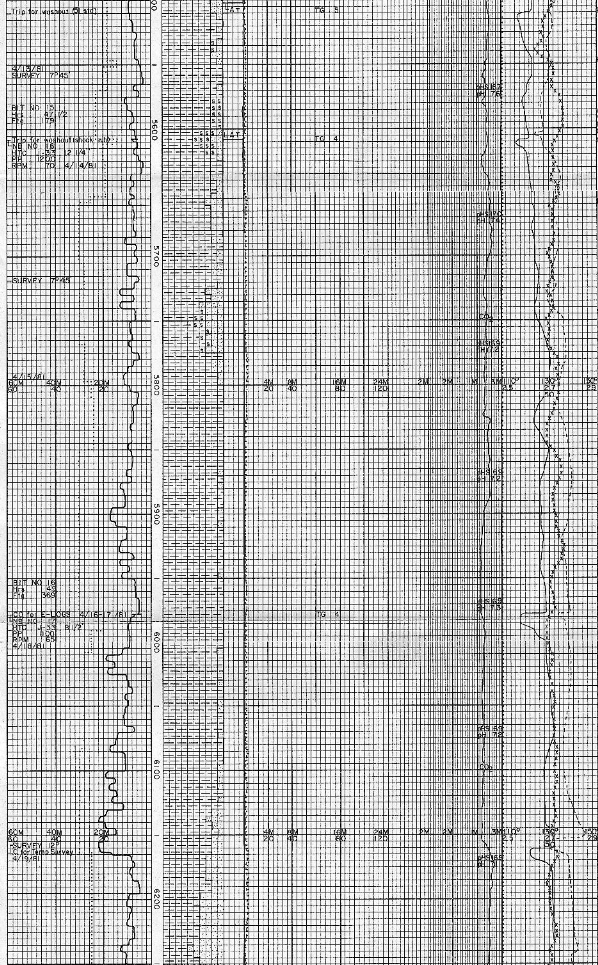
QTZ clr wh dk gy blky-splty ang occ gran frac w/ calc tr pyr tr xln min

PHY gy-lt gy hd blky, occ fiss sil, calc inpt micmica occ suc tex w/occ abnt calc frac fill

QTZ clr-mlky wh, trnsl blky occ xln frac inpt w/occ abnt calc frac fill sl tr dis vf gr pyr

PHY dk-m gy occ brn v hd blky-plty sl fiss sil-sl calc sl-v micmica occ tr fol occ suc tex frac w/calc frac fill

QTZ dk brn amber v hd-fri v ang sl gran w occ xln micmica



PHY dk gy-gy hd blky, occ fiss sil-calc inpt mic mica gran-suc tex inpt occ abnt calc frac fill tr lt brn plty sericite

PHY dk-lt gy hd-v hd v plty-sl blky fiss sil w occ calc lam v micmica fo occ suc tex w/tr qtz calc frac fill w/occ abunt brn xln

WT	8.6	pH	8.0
VIS	35	WL	NC
FC	2	SOL	2
Cl⁻	70	YP	5

QTZ clr-mlky, trnsl hd blky frac ang occ micxln w/occ calc frac fill w lt gy wh seric frm plty

PHY dk-lt gy brn v hd plty-sl blky fiss v sil occ v micmica w fol occ mass suc tex w qtz frac w/ calc frac fill tr pyr tr brn xln

CARBIDE LAG pump #2
28u 102 min 60 spm

QTZ clr-mlky wh, lt brn hd blky ang inpt w/mlky wh fri-hd calc tr seric tr pyr

SERIC lt gn-wh, lt gy fri-hd plty fiss inpt micmica fol w/wh, clr, lt brn hd blky vf gr qtzt

PHY dk-m gy brn hd-v hd blky v plty sl-v fiss v sil v slky-v suc tex occ fol w v micmica w/brn xln abunt qtz occ calc frac fill w/lt gn seric intbd

PHY dk gy dk brn v hd v blky-tr plty v sil tr sl micmica bcmng v slaty sl frac w/tr pyr calc

PHY dk brn dk gy hd-v hd v blky v sil slaty w/tr pyr qtz calc

QTZ clr-mlky wh, lt gy hd blky frac inpt w/occ calc tr pyr

PHY blk, dk gy hd, occ brit slate inpt blky-plty occ vf gr suc tex micmica sl grsy lstr w/occ calc frac fill

PHY gy-dk gy hd plty occ fiss v micmica sl gran occ fol tr lt brn qtzt tr pyr

PHY dk-m gy v hd-hd plty-blky v sil w calc lam sl micmica occ suc tex tr sl slaty sl frac w/qtz calc frac fill

WT	8.9	pH	8.0
VIS	37	WL	NC
FC	2	SOL	3
Cl⁻	70	YP	9

QTZ mlky wh clr tr brn hd trnsl-op poss frac fill w/tr pyr w/occ qtzt v gran thnly intbd

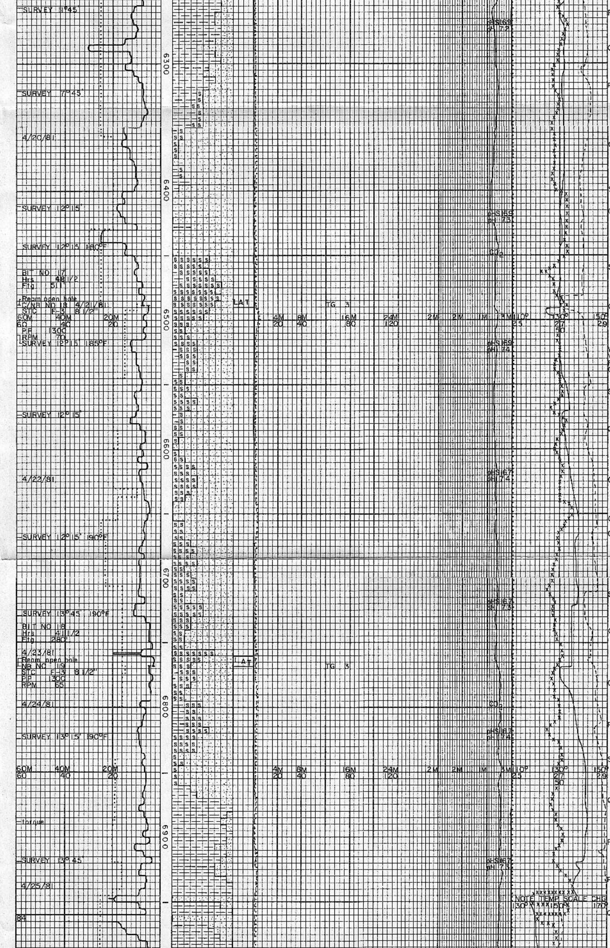
PHY dk-lt gy v hd tr frm v plty-sl blky v sil sl-v micmica occ suc frac w/calc qtz pyr frac fill

QTZ mlky wh dk brn clr blky op poss qtzt w frac fill w/tr pyr brn flaky mica

PHY dk-m gy v hd v plty-sl blky v sil occ v suc occ v micmica w/tr calc abunt qtz

CARBIDE LAG pump #1
18u 98 min 60 spm

QTZ lt brn, mlky wh, lt gy hd blky trnsl glsy inpt w/ mlky wh calc



PHY dk gy-lt gy hd blky-plty micmica occ v gran tex sil w/intbd lt brn qtzt

QTZT lt brn-brn, lt gy-gy hd f-vf gr blky sil-sl calc micmica inpt gran-suc tex tr kao tr calc

PHY gy-lt gy, lt gn hd occ brit plty, fiss inpt micmica occ suc tex tr lt gn sericite

QTZT dk gy wh clr gn v hd-hd blky occ brn micmica trnsl-op mass-occ gran tr suc tex w/calc frac fill

SERIC lt gn wh frm-hd plty v fiss mica sl fol sil

QTZT dk gy mlky wh clr gn v hd blky v ang mass trnsl-op frac w calc w/ dk brn qtzt fri v ang v gran abunt brn mica flakes

SERIC lt gn, lt gy, wh hd plty fiss v micmica sil w/ sl grsy lstr intbd w/ v f gr mica qtzt

QTZT dk-lt gn dk brn dk gy v hd-sl fri v f gr-mass trnsl-op occ brn micmica w xln w/sl tr calc

WT	8.9	pH	8.1
VIS	36	WL	NC
FC	2	SOL	3
Cl⁻	50	YP	7

SERIC lt gn, wh, lt gy frm-brit plty, fol inpt v micmica sil w/occ calc frac fill

QTZT wh, lt brn, lt gn v hd blky vf-f gr sil-sl calc occ mica w/biot tr feld w/occ amor qtz vn fill

QTZT dk-lt gn dk brn hd-brit blky v f gr-mass pred-trnsl v sil occ fol mica poss biot w/sl tr calc clr xln qtz frac fill

CARBIDE LAG pump #1
23u 106min 58 spm

QTZT m-lt gn tr lt brn hd-brit blky-splty mass-vf gr trnsl v sil tr fol occ v mica w tr biot spot w/ amor qtz frac fill

SERIC wh, lt gn hd-fri plty-fiss micmica sil cly inpt occ calc frac fill occ tr pyr

QTZT lt-dk gn occ dk brn v hd blky-splty v f gr-mass occ v mica w tr poss biot occ frac w amor clr qtz frac fill

QTZT lt-dk gn dk brn gy v hd v blky mass-occ f gr v glsy-v mica w/qtz frac fill w sl tr calc

PHY dk brn dk gy v hd v blky ang v sil slaty-v micmica

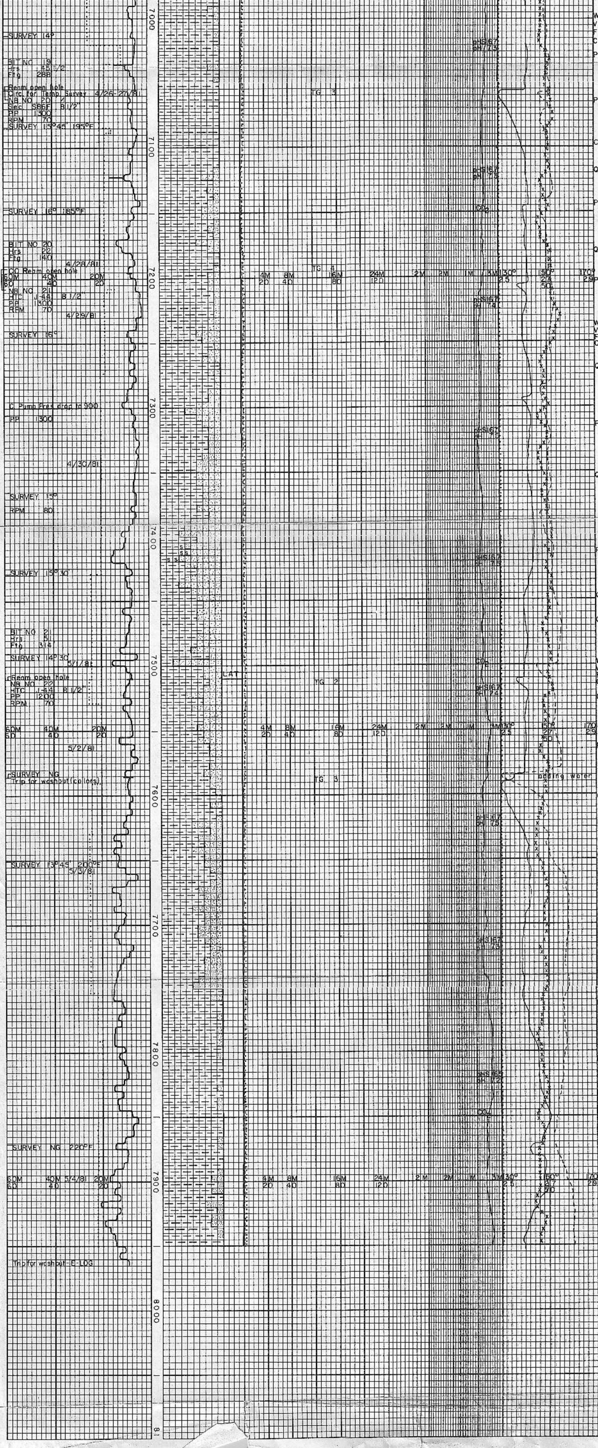
SERIC wh lt gn frm-sl hd v plty fiss occ v micmica v sil-sl calc v thnly bd occ tr xln qtz frac fill

QTZT lt gn, wh, gy hd blky f-vf gr mica inpt w/ occ sft wh kao pred sil occ frac w/calc frac fill

PHY pred gy-dk gy hd fiss plty sil occ blky w/ suc tex micmica occ qtz frac fill

PHY dk gy v hd blky-plty sl fiss v sil w calc lam occ v micmica

QTZT mlky wh gy v hd-fri blky v gran-mass m-c gr v ang tr calc w gr occ chlor stn w/sl tr pyr



WT 8.9 pH 8.0
VIS 34 WL NC
FC 2 SOL 3
CL- 70 YP 10

PHY gy-dk gy hd plty-fiss micmica sil fol inpt w/occ calc frac

PHY dk gy tr dk brn v hd blky v ang v sil suc tex-micmica-slaty sl frac w/tr qtz sl tr calc frac fill

CARBIDE LAG pump #1
25u 107min 58spm

QTZ wh, lt brn vf gr xln hd ang inpt sil pred frac fill w/tr calc

PHY gy-dk gy, dk brn hd-brit blky-plty v micmica fol inpt w/occ macmic biot pred sil tr lt gy amor cly, pos kao

QTZT lt gy, wh, lt gn hd vf-f blky occ micmica sil w/tr pyr

PHY dk gy-gy, lt gn hd-brit blky-plty sil, occ calc micmica fol inpt occ suc tex tr pyr

WT 8.9 pH 8.2
VIS 37 WL NC
FC 2 SOL 3
CL- 70 YP 11

QTZT wh, lt gy, lt brn hd-fri vf-f gr gran tex blky occ v micmica sil w/occ sft wh sl calc cly occ abnt mlky wh ang amor calc frac fill

PHY dk gy-gy, lt brn-brn hd blky-plty micmica fol inpt pred sil occ calc gran tex inpt w/calc frac fill

QTZT lt-dk brn, wh, lt gy, lt gn pred hd vf-f gr ang-blky occ micmica sil, occ v calc occ abnt wh kao cly abnt frac w/calc frac fill

PHY gy-lt gy hd blky-plty micmica occ suc tex occ v calc glsy lstr inpt slaty inpt w/occ sft-frm lt gn seric

CARBIDE LAG pump # 1
23u 109.5min 58spm

QTZT lt gy, wh-lt brn fri-hd blky-ang sil-occ calc mica inpt w/occ amor sft-brit kao cly

WT 8.9 pH 8.1
VIS 34 WL NC
FC 2 SOL 3
CL- 70 YP 7

QTZT lt gy-gy brn-lt brn hd-fri f gr blky-ang pred sil, occ calc mica inpt slty w/calc frac fill

PHY gy-lt gy frm-hd blky, occ fiss sil-sl calc micmica occ v slaty earthy w/calc frac fill

QTZT lt gy-gy, v lt brn hd-fri f gr- micxln tex ang-mod plty pred sil occ calc mica inpt w/kao cly

WT 8.8 pH 8.2
VIS 34 WL NC
FC 2 SOL 3
CL- 70 YP 9

QTZT lt-gry brn-lt brn hd fri f gr blky-ang pred sil, occ calc mica w calc fract fill

PHY gy lt gy frm hd blky occ fiss sil-sl calc mic mica slty

PHY pred dk gy, gy hd-brit plty-fiss mod calc-sil v micmica fol schist. inpt v frac occ sks w/abnt calc frac fill tr pyr

PHY gy-lt gy hd fiss v micmica sil ang occ gran tex w/occ qtz frac fill tr pyr

QTZ cl-fros, mlky wh hd ang v fnly xln-amor w/occ tr pyr

PHY pred dk gy, gy hd-brit fiss mod calc sil v mic mica v fract tr pyr

WT 8.8 pH 8.2
VIS 34 WL NC
FC 2 SOL 3
CL- 70 YP 9

NOTE: no samp washout