PASON SYSTEMS USA CORP.

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OPERATOR:	**NW NATURAL**	SPUD DATE:	**RE ENTER MAY 18, 2000**
WELL:	**OM 22-26-65 RE-DRILL**	TD DATE:	**5/21/00**
LOCATION:	**NW 1/4 SEC 26, T6N, R5W**	DATES LOGGED:	**5/18/00-5/21/00**
COUNTY:	**COLUMBIA**	DEPTHS LOGGED:	**491'(KOP) - 2151'**
STATE:	**OREGON**	LOGGERS:	**ED PERRY, SCOTT WAGGONER**
SPOT:	**1852.52'FSL, 2433.36'FEL**	DRILLING FLUID:	**LSND**
ELEVATION:	**KB 631', GL 621'**	DRILLING RIG:	**TAYLOR RIG #7**
FIELD:	**REICHHOLD POOL DEVELOPMENT-**		

LOG TYPE: MUD LOG

SCALE: 1:240 (5.0 INCH/100 FT)

REMARKS:

PUMPS 1 & 2: 5 1/2" X 14", DUPLEX

ALL DEPTHS BASED ON KB.

LITHOLOGIES

SANDSTONE	SILTSTONE	SHALE	COAL	BENTONITE
LIMESTONE	DOLOMITE	ANHYDRITE	CHERT	SALT
CONGLOMERATE	TUFF	ALLUVIUM	METAMORPHIC	GLACIAL TILL
DARK CHERT	WELDED TUFF	ARGILLACEOUS LIMESTONE	LIME MUDSTONE	CRYSTALLINE LIMESTONE
LIME BOUNDSTONE	LIME GRAINSTONE	LIME PACKSTONE	LIME WACKESTONE	DOLOMITIC LIMESTONE
CALCAREOUS DOLOMITE	ARGILLACEOUS DOLOMITE	DOLOMITIC MUDSTONE	CRYSTALLINE DOLOMITE	DOLOMITIC BOUNDSTONE
DOLOMITIC GRAINSTONE	DOLOMITIC PACKSTONE	DOLOMITIC WACKESTONE	SHALY SANDSTONE	CLAYSTONE
GRAY CLAYSTONE	COLORED CLAYSTONE	VOLCANICS	BRIGHT COAL	INTERMEDIATE COAL
DULL COAL	COALY SHALE	NON COAL	GRANITE	BRECCIA
MARL	DOLOMITIC MARL	CARBONACEOUS SHALE	CHALK	GYPSUM
UNABLE TO INTERPRET	NO SAMPLE	BLACK SHALE	COLORED SHALE	GRAY SHALE
SILTY SHALE	SHALY SILTSTONE	NOTHING		

MODIFIERS

Ⅲ	ANHYDRITE STRINGERS	◓	ALGAE, LAMINATED	◓	ALGAE, NON-DESCRIPT	◓	ALGAE, OOTOID	◓	ALGAE, SKELETAL	⧗	AMPHIPORA
//	ANHYDRITIC	-	ARGILLACEOUS	/	ARGILLITE GRAIN	⊳	BELEMNITE	B	BENTONITE	⌒	BIOCLAST/ FRAGMENTAL
◇	BRACHIOPOD	♉	BRECCIA	⌒	BRYOZOA	⊥	CALCAREOUS	■	CARBONACEOUS FLAKES	◣	CEMENTING BITUMENOUS
๑	CEPHALOPOD	▲	CHERT, DARK	△	CHERT, LIGHT	⊠	CHERT, TRIPOLITIC	▬	COAL	↰	CORAL
⊙	CRINOID	✕	CRYSTALS	Ⅱ	DOLOMITE STRINGERS	∠	DOLOMITIC	♡	ECHINOID	+	FELDSPAR
⊥	FERRUGINOUS	●	FERRUGINOUS GRAINS	Ⅲ	FERRUGINOUS STRINGERS	⊂	FISH REMAINS	♉	FORAMINIFERA	F	FOSSILS
⌇	FRACTURES	△	GASTROPOD	∾	GLAUCONITE	\\	GYPSIFEROUS	Ⅲ	GYPSUM STRINGERS	◥	HEAVY/DARK MINERALS
Y	INTRACLASTS	K	KAOLIN	Ⅱ	LIMESTONE STRINGERS	L	LIMONITE	π	MARLSTONE, CALCAREOUS	π	MARLSTONE, DOLOMITIC
⌄	MICACEOUS	⊕	NODULES	◊	OOLITES	◔	OSTRACOD	⚭	PEBBLES	▽	PELECYPOD
ø	PELLETS	●	PHOSPHATE PELLETS	○	PISOLITE	◇	PLANT REMAINS	P	PYRITE	⊞	SALT CAST/INFILL
∘	SAND GRAINS	▭	SANDSTONE STRINGERS	⁚	SANDY	♁	SCAPHOPOD	—	SHALE LAMINAE	^	SILICEOUS
▭	SILTSTONE STRINGERS	▪▪	SILTY	⌇	SLICKENSLIDE	S	SPORES	Ⅲ	STROMATOPOROID	⎍	STYLOLITE
V	TUFFACEOUS										

POROSITY/SORTING/ROUNDNESS SYMBOLS

X	INTERCRYSTALLINE INTERGRANULAR	V	VUGGY	F	FRACTURE	○	INTEROOLITIC	P	PINPOINT	ʃ	ORGANIC
O	MOLDIC	e	EARTHY	☐	FENESTRAL						
A	ANGULAR	a	SUBANGULAR	R	ROUNDED	r	SUBROUNDED				
W	WELL	M	MEDIUM	P	POOR						

ENGINEERING SYMBOLS

♣	BIT CHANGE	^	LOST CIRCULATION	◢	CASING	◣	CASING	◀	SIDEWALL CORE	▶	SIDEWALL CORE
▷	WIRELINE TEST	◁	WIRELINE TEST	⍑	GAS TO SURFACE	▼	OIL TO SURFACE	⍫	WATER TO SURFACE	●	EVEN STAINING
◑	SPOTTED STAINING	D	DEAD OIL	O	QUESTIONABLE	•	OIL SHOW	☼	GAS SHOW	✷	OIL AND GAS SHOW
(CG)	CONNECTION GAS	(TG)	TRIP GAS	▨	MIDNIGHT DEPTH	▧	MIDNIGHT DEPTH	▭	CONNECTION	⁻	OFF BOTTOM
⫽	NORMAL FAULT	⫽	REVERSE FAULT	⤴	OVERTURNED STRATA						

BAR SYMBOLS

▭	CORE RECOVERED	▭	CORE LOST	▭	DST INTERVAL	▭	ROTATING	▭	SLIDING	▦	CANISTER

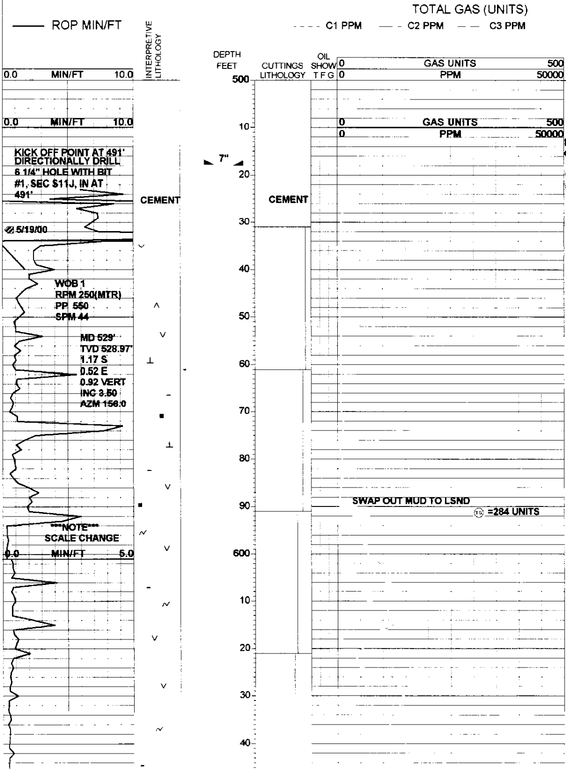
ABBREVIATIONS

CB - CORE BIT
CG - CONNECTION GAS
CO - CIRCULATE OUT
SPM - STROKES/MIN

DST - DRILL STEM TEST
DTG - DOWNTIME GAS
LAT - LOGGED AFTER TRIP
TG - TRIP GAS

NR - NO RETURNS
NS - NO SAMPLE
PP - PUMP PRESSURE
WOB - WEIGHT ON BIT

RPM - REVOLUTIONS/MIN
RR - RE-RUN
SLM - STEEL LINE MEASURE



LITHOLOGY DESCRIPTIONS

PASON SYSTEMS MIT/PAL UNIT ON LOCATION5/17/00

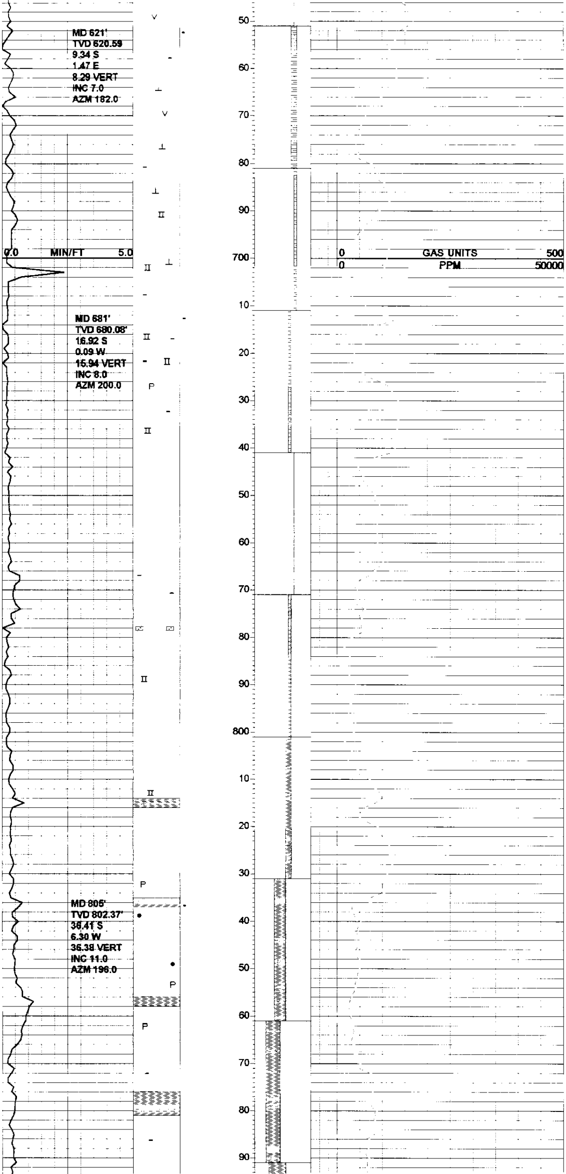
COMMENCE LOGGING 2240 HOURS 5/19/00 AT 491'

SLTST: pred m gy mot lt gy sme brn plty mica incl, mod frm to very frm ip, blocky, part argill-dns non gran, pred vf-m gran w/ sme vf sdy qtz abnt tuffaceous debris, sl-non calc, vtt & drty, scat dk brn org mat, sme slsil cmt

SHSLTST/SLTST: bcm lt brn & lt gy brn sme tan, frm-incr sft & fri, sme incr arg mtx, incr & abnt org mat & tuffaceous debris, pred finely gran w/ sme qtz, scat-abnt chlorite-pos glauc ip, v sl-non calc

SLTST/SH: pred m gy gy sme brn plty mica incl, mod frm to vfrm ip, blocky, part argill-dns-non gran, pred vf-m gran w/ sme vf sdy qtz abnt tuffaceous, sl-non calc, vtt & drty, brn org mat, sme slsil

SLTST/SHLYSLTST: lt brn & gy brn sme mottled, sbblky-blky, pt vf sdy & gran pt-incr grdg to sh, tr Fos frags, brn-dk brn org flks abnt vf tuff mat, evenly dism chlor grs & tr glauc, sl-non calc



TR LS5-10%: bfoffwh tanorngtan,sft-vfrm, fine-micxl,xl-dnsip,chky-slgranip,minor-abnt insolresd,smeasmnrlfracflip,trfosfragsip

SLTST/SH: predmgy gysmebrnpltymica incl,modfrmtovfrmip,blocky,predvf-mgran w/smevfsdyqtzabnttuffaceous,sl-noncalc,v tt&drty,brnorgmat,thnLsstrgsip

TR LS5-10%: bfoffwh tanorngtan,sft-vfrm, fine-micxl,xl-dnsip,chky-slgranip,minor-abnt insolresd,smeasmnrlfracflip,trfosfragsip

SLTST: ltgy-dkgy-gybrn-bufftangy,slS&P,vf-f gr,modfrm-frm,sbrd-rd-sbangw/angcarbgr, mtx-grsupt,smearg-lmyincl,abntcarbincl-flecksw/trlsemat,trdismpyr,grdgtoSHLY SLTST,trgnblusilincl,trmicmica,NSFOC

SLTST/SH: predmgy gysmebrnpltymica incl,modfrmtovfrmip,blocky,predvf-mgran w/smevfsdyqtzabnttuffaceous,sl-noncalc,v tt&drty,brnorgmat,thnLsstrgsip

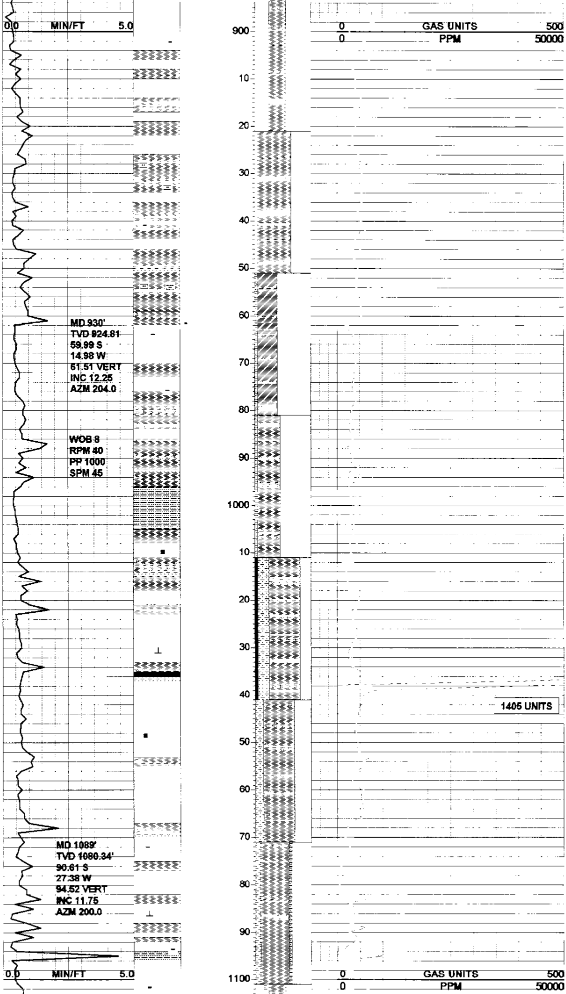
SLTST: ltgy-dkgy-gybrn-bufftangy,slS&P,vf-f gr,modfrm-frm,sbrd-rd-sbangw/angcarbgr, mtx-grsupt,smearg-lmyincl,abntcarbincl-flecksw/trlsemat,trdismpyr,grdgtoSHLY SLTST,trgnblusilincl,trmicmica,NSFOC

SLTST: ltgy-dkgy-gybrn-bufftangy,slS&P,vf-f gr,modfrm-frm,sbrd-rd-sbangw/angcarbgr, mtx-grsupt,smearg-lmyincl,abntcarbincl-flecksw/trlsemat,trdismpyr,grdgtoSHLY SLTST,trgnblusilincl,trmicmica,NSFOC

SHLYSLTST: dkgy-ltgy-gybrn-crmgy-mgybrn,vf-fgr,grdgtoblky,modfrm-frm,trcalc cmt,sbrd-sbang-rd,mtx-grsupt,abntclyincl, abntcarbmat,smestrgsvfdimpyrw/lg cuttings,trmic,trlmngrw/SLTST

SHLYSLTST: dkgy-ltgy-gybrn-crmgy-mgybrn,vf-fgr,grdgtoblky,modfrm-frm,trcalc cmt,sbrd-sbang-rd,mtx-grsupt,abntclyincl, abntcarbmat,smestrgsvfdimpyrw/lg cuttings,trmic

WT=8.7 Vis=40 Wl=6.4 pH=9.0 Cl=2400
Ca=40 Sol=3% Ck=2/32



SHLYSLTST:dkgy-ltgy-gybrn-crmgy-mgybrn,vf-fgr,grdgtoblky,modfrm-frm,trcalc cmt,sbrd-sbang-rd,mtx-grsupt,abntclyincl, abntcarbmat,smestrgsvfdimpyrw/lg cuttings,trmic

CLYST:ltgy-dkgy-crmbrn-gybrn-tan-offwh, sbblkyip,sft-vsft,smesilgrincl,trcalccmt,sme carbincl,grdgtoSHLYSLTST

SHLYSLTST:dkgy-ltgy-gybrn-crmgy-mgybrn,vf-fgr,grdgtoblky,modfrm-frm,trcalc cmt,sbrd-sbang-rd,mtx-grsupt,abntclyincl, abntcarbmat,smestrgsvfdimpyrw/lg cuttings,trmic,trlmngrw/SLTST

CLYST:ltgy-dkgy-crmbrn-gybrn-tan-offwh, sbblkyip,sft-vsft,smesilgrincl,trcalccmt,sme carbincl,grdgtoSHLYSLTST

LOG TOP OF COWLITZ 1005'

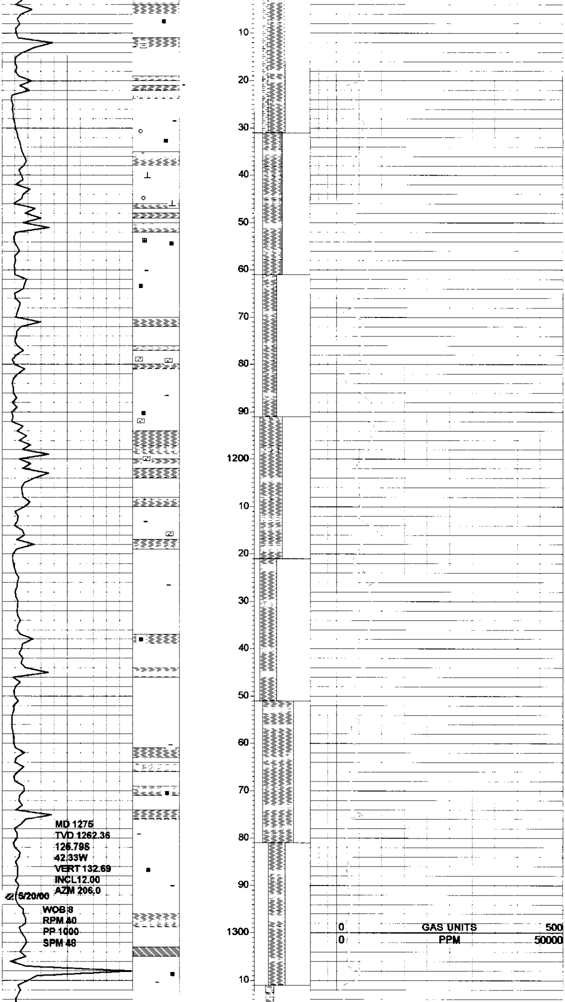
NOTE LITH CHANGE

CLYST:ltgy-crmgy-whgy-gybrn-offwh,sft-vsft,abntlseSSgr,occmgrblugn-gnSS,trcalc cmt

TRCOAL<5%:blk,sbblky-blky,rthy-sm,tr conchfrac,trdismpyr

CLYST:ltgy-crmgy-whgy-gybrn-offwh,sft-vsft,abntlseSSgr,occmgrblugn-gnSS,trcalc cmt

[illegible]
sl sft,trcalc cmt,abntcly incl-infl,occ carbincl-flecks w/ trlsemat,sme SS strgs,NSFOC



SHLYSLTST: ltgy-gybrn-dkbrn-mgybrn-crmtan,slS&P,vf-fgr,sbrd-rd-sbang,modfrm-slsft,trcalc cmt,abnt cly incl-infl,occ carb incl-flecks w/ tr lsemat,sme SS strgs,NSFOC

SHLYSLTST: ltgy-dkgy-mchocbrn-tangy-mbrn,vf-fgr,modfrm-slsft,abnt clyinfl,mod calc cmt,sbrd-sbang gr,sme carb incl-strgs w/ occ lrg gr lsemat,grdg to SLTY CLYST,tr mic mica, NSFOC

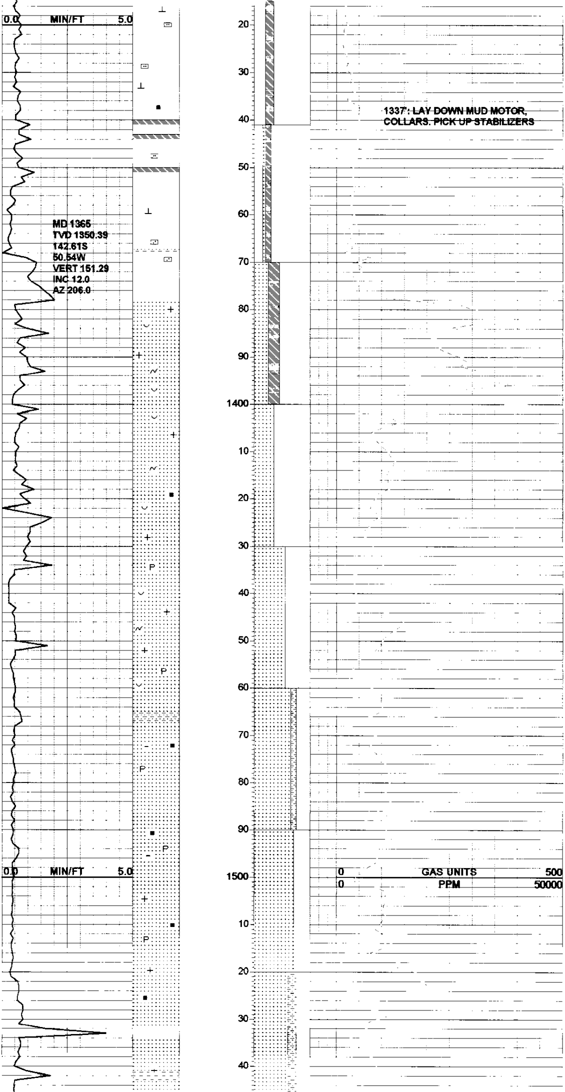
SHLYSLTST: ltgy-dkgy-mchocbrn-tangy-mbrn,vf-fgr,modfrm-slsft,abnt clyinfl,mod calc cmt,sbrd-sbang gr,sme carb incl-strgs w/ occ lrg gr lsemat,grdg to SLTY CLYST,tr mic mica, NSFOC

CLYST: ltgy-offwh-crmbrn-ltwhgy-brngy,vsft-sft,nostr,tr calc cmt,sme SLTST-SHLYSS strgs-incl,sme carb flecks-lsemat

SHLYSLTST: ltgy-dkgy-mchocbrn-tangy-mbrn,vf-fgr,modfrm-slsft,abnt clyinfl,mod calc cmt,sbrd-sbang gr,sme carb incl-strgs w/ occ lrg gr lsemat,grdg to SLTY CLYST,tr mic mica, NSFOC

CLYST: ltgy-offwh-crmbrn-ltwhgy-brngy,vsft-sft,nostr,tr calc cmt,sme SLTST-SHLYSS strgs-incl,sme carb flecks-lsemat

lrg gr lsemat,grdg to SLTY CLYST,tr mic mica,
NSFOC



SLTYSTN:ltgy-dkgy-brn-tangy,slt-srslt, clayey-gummy,modcalccmt,sbrd-sbanggr, smecarbincl-strgsw/occlrggrlsemat,grdgto Sltst,trmicmica,op&wh calcnodsip,abnt tuffaceousmat,carb/orgflks

DMA
Wt. 8.9 Vis 45 pH 9.0 WL 6.6 Cl 2600
Ca 40 Sol 4% Ck 2/32

SLTYMUDSTN: bcmpredmbrndkbrngy& gybrn,vsft-cly&stky,sbblky,scat-incrltcalcite nods/incl&posfracfill,dkorglam/flks,trfos frags,smemodcalcmtx,tuffdebrisip

TRACE SS: gybrnopipvf-fgr,m-psrt,sbrd-sbang,smearginfil,chlor,mica,trfelds

LOG TOP OF C&W SAND 1376'

NOTE: POOR SAMPLE QUALITY

SANDSTONE:opltgyclrglasyiptrnslippredf w/vfgrsip,msrt,sbrd-ang,lsegrsip,smlvfri clstrsipfrmip,minorvisinfil,abntchlorite,scat micaflks,feldgrs,occdkorgflks,predttw/trvis por

SANDSTONE: ltgyclrglasyiptrnslippredf gr occvf-m,m-wsrt,sbrd-ang,lsegrsip,smlvfri clstrsipfrmip,minorvisinfil,evenlydism chlorite,scat-abntmicaflks,feldgrs,occdkorg flks,ttipincrvispor

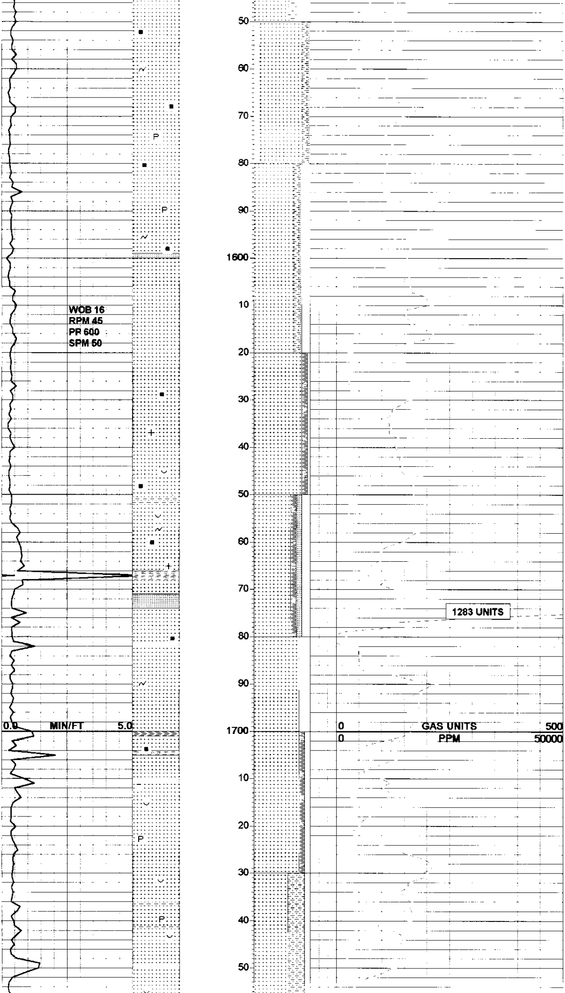
SANDSTONE: ltgyclrtrnslippredfgroccvf-m,m-wsrt,sbrd-ang,lsegrsip,incr-abntpyrsml vfriclstrsipfrmip,predclnw/rrarginfil,evenly dismchlorite,abntmicaflks,feldgrs,occdkorg flks,ttip visporip

SANDSTONE: ltgyclrtrnslip,predfgroccvf-m,m-wsrt,sbrd-ang,lsegrsip,incr-abntpyrsml vfriclstrsipfrmip,predclnw/rrarginfil,evenly dismchlorite,abntmicaflks,feldgrs,occdkorg flks,ttip visporip

SS: ltgy-dkgy-gybrn-trnsl-clr-op-gl-offwh,vf-f grw/occmgr,sbrd-rd-sbang,mod-wsrt,friw/ smelseunconsclusthru,grsuptw/smemtx supt,predsilcmtw/occcalccmt,trarg-lmyinfl, incr-abntdismpyrclus,trglua,smemicmica,tr lrgfldgr,abntlsecarbmatw/smestrgs,g-mod intgranpor,NSFOC

SME CVGS OF SLTST W/ SMPLE

SS: ltgy-dkgy-gybrn-trnsl-clr-op-gl-offwh,vf-f grw/occmgr,sbrd-rd-sbang,mod-wsrt,friw/ smelseunconsclusthru,grsuptw/smemtx supt,predsilcmtw/occcalccmt,trarg-lmyinfl, incr-abntdismpyrclus,trglua,smemicmica,tr lrgfldgr,abntlsecarbmatw/smestrgs,g-mod intgranpor,NSFOC



SME CVGS OF SLTST W/ SMPLE

SS: ltgy-dkgy-gybrn-trnsl-clr-op-gl-offwh,vf-f grw/occmgr,sbrd-rd-sbang,mod-wsrt,friw/ smelseunconsclusthru,grsuptw/smemtx supt,predsilcmtw/occcalccmt,trarg-lmyinfl, incr-abntdismpyrclus,trglua,smemicmica,tr trgfldgr,abntlsecarbmatw/smestrgs,g-mod intgranpor,NSFOC

SME CVGS OF SLTST W/ SMPLE

SS: ltgy-dkgy-gybrn-trnsl-glgy-op-offwh-tr gluagn,f-vfgrw/trmgr,mod-wsrt,sbrd-sbang-rd,predgrsuptw/silcmt,smearg incl,trcalc cmtw/SHLYSSsmple,abntlsecarbmatw/ smeincl-strgs,occchlor&micmica,incr-abnt dismpyrclus,trfldgr,modintrgranpor,NSFOC

SME CVGS OF SLTST W/ SMPLE
POOR SMPLE QUALITY

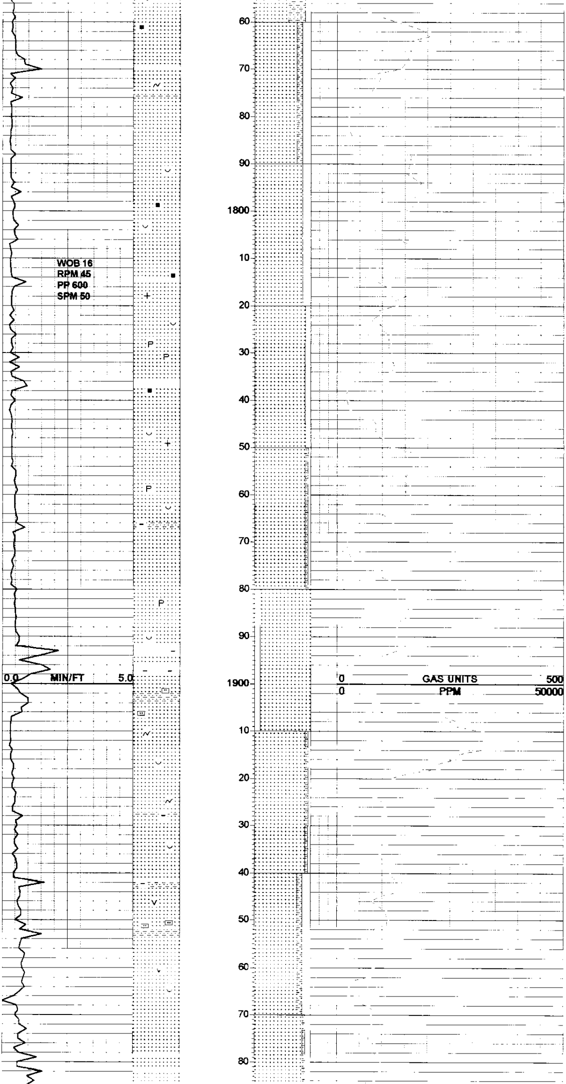
SS: ltgy-dkgy-gybrn-trnsl-glgy-op-offwh-tr gluagn,f-vfgrw/trmgr,mod-wsrt,sbrd-sbang-rd,predgrsuptw/silcmt,smearg incl,trcalc cmtw/SHLYSSsmple,abntlsecarbmatw/ smeincl-strgs,occchlor&micmica,incr-abnt dismpyrclus,trfldgr,modintrgranpor,NSFOC

SS: ltgy-dkgy-gybrn-trnsl-glgy-op-offwh-tr gluagn,f-vfgrw/trmgr,mod-wsrt,sbrd-sbang-rd,predgrsuptw/silcmt,smearg incl,trcalc cmtw/SHLYSSsmple,abntlsecarbmatw/ smeincl-strgs,occchlor&micmica,incr-abnt dismpyrclus,trfldgr,modintrgranpor,NSFOC

SS: ltgy-dkgy-ltgbrn-brngy-trnsl-op-offwh-clr-fros,vf-fgrw/smemgr,mod-wsrt,sbang-sbrd, grsuptw/silcmt,trcalccmt,abntcarbinclw/ smelsemat,trmicmica&chlor,incr-abntdism pyr,trlsecoal,occfldgr,NSFOC

SS: ltgy-dkgy-ltgbrn-brngy-trnsl-op-offwh-clr-fros,vf-fgrw/smemgr,mod-wsrt,sbang-sbrd, grsuptw/silcmt,trcalccmt,abntcarbinclw/ smelsemat,trmicmica&chlor,incr-abntdism pyr,trlsecoal,occfldgr,NSFOC

SS: gybrn-ltgy-trnsl-clr-fros-glgy-op-trglau gn-gn,f-vfw/smemgr,mod-wsrt,sbrd-rd-sbang,grsuptw/silcmt,trcalccmtw/SHLYSS smple,abntlsecarbw/smeincl-flk,occmic mica-boit-chlor,smedismpyrclus,trglau,mod intgranpor,NSFOC



SME CVGS OF SLTST W/ SMPLE
POOR SMPLE QUALITY

SS: ltgy-dkgy-ltgbrn-brngy-trnsl-op-offwh-clr-fros,vf-fgrw/ smemgr,mod-wsrt,sbang-sbrd, grsuptw/ silcmt,trcalccmt,abntcarbinclw/ smelsemat,trmicmica&chlor,incr-abntdism pyr,trlsecoal,occfldgr,NSFOC

SS: gybrn-ltgy-trnsl-clr-fros-glgy-op-trglau gn-gn,f-vfw/ smemgr,mod-wsrt,sbrd-rd-sbang,grsuptw/ silcmt,trcalccmtw/ SHLYSS smple,abntlsecarbw/ smeincl-flk,occmic mica-boit-chlor,smedism pyrclus,trglau,mod intgran por,NSFOC

SS: ltgy-dkgy-ltgbrn-brngy-trnsl-op-offwh-clr-fros,vf-fgrw/ smemgr,mod-wsrt,sbang-sbrd, grsuptw/ silcmt,trcalccmt,abntcarbinclw/ smelsemat,trmicmica&chlor,incr-abntdism pyr,trlsecoal,occfldgr,NSFOC

SS: ltgy-offwh-clr-fros-op-glgy-trnsl-gybrn-tangy,S&Pf-vfgrw/ smemgr,modfrm-friw/ uncons clusthru,sbrd-sbang-rd,w-modsrt,gr suptw/ silcmt,vfnttrcalccmtw/ SHLYSS, abntlsecarbmat,smemicmicaw/ trbiot,occ glua,modintgranpor,NSFOC

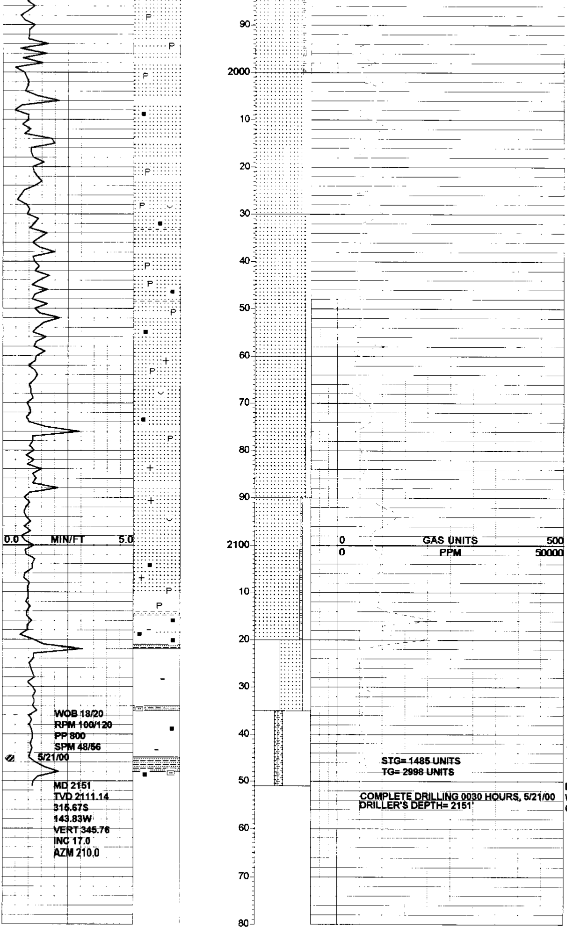
SS: ltgy-offwh-clr-fros-op-glgy-trnsl-gybrn-tangy,S&Pf-vfgrw/ smemgr,modfrm-friw/ uncons clusthru,sbrd-sbang-rd,w-modsrt,gr suptw/ silcmt,vfnttrcalccmtw/ SHLYSS, abntlsecarbmat,smemicmicaw/ trbiot,occ glua,modintgranpor,NSFOC

ABNT SLTST CVGS W/ SMPL

SS: ltgy-offwh-clr-fros-op-glgy-trnsl-gybrn-tangy,S&Pf-vfgrw/ smemgr,modfrm-friw/ uncons clusthru,sbrd-sbang-rd,w-modsrt,gr suptw/ silcmt,vfnttrcalccmtw/ SHLYSS, abntlsecarbmat,smemicmicaw/ trbiot,occ glua,modintgranpor,NSFOC

SS: ltgy-offwh-clr-fros-op-glgy-trnsl-gybrn-tangy,S&Pf-vfgrw/ smemgr,modfrm-friw/ uncons clusthru,sbrd-sbang-rd,w-modsrt,gr suptw/ silcmt,vfnttrcalccmtw/ SHLYSS, abntlsecarbmat,smemicmicaw/ trbiot,occ glua,modintgranpor,NSFOC

carb mat,smemicmicaw/ trchlor,abntdism pyrclus,modintgranpor,NSFOC



WOB 18/20
RPM 100/120
PP 800
SPM 48/56
5/21/00

MD 2151
TVD 2111.14
315.67S
143.83W
VERT 345.76
INC 17.0
AZM 210.0

STG= 1485 UNITS
TG= 2998 UNITS

COMPLETE DRILLING 0030 HOURS, 5/21/00
DRILLER'S DEPTH= 2151'

SS: offwh-clr-fros-op-gl gy-trnsl-ltgy-gybrn-tangy,S&P f-vfgr w/ sme m gr,pred vfri uncons clus thru,sbrd-sbang-rd,w-mod srt,gr supt w/ sil cmt,vfnt tr calc cmt w/ SHLY SS,abnt lse carb mat,sme mic mica w/ tr chlor,abnt dism pyr clus,mod intgran por,NSFOC

LOG TOP OF HAMLET 2034'

SS: offwh-clr-fros-op-gl gy-trnsl-ltgy-gybrn-tangy,S&P f-vfgr w/ sme m gr,pred vfri uncons clus thru,sbrd-sbang-rd,w-mod srt,gr supt w/ sil cmt,vfnt tr calc cmt w/ SHLY SS,abnt lse carb mat,sme mic mica w/ tr chlor,abnt dism pyr clus,mod intgran por,NSFOC

SS: offwh-clr-fros-op-gl gy-trnsl-ltgy-gybrn-tangy,S&P f-vfgr w/ sme m gr,pred vfri uncons clus thru,sbrd-sbang-rd,w-mod srt,gr supt w/ sil cmt,vfnt tr calc cmt w/ SHLY SS,abnt lse carb mat,sme mic mica w/ tr chlor,abnt dism pyr clus,mod intgran por,NSFOC

SS: ltgy-trnsl-clr-fros-offwh-op-gl gy-gybrn,vf-fgr,sbrd-rd-sbang,pred uncons thru w/ sme fri clus,gr supt w/ sme sil cmt,tr grdg to SHLY SS, abnt lse carb mat-strgs,tr mic mica,mod intgran por,NSFOC

SLTY SS: incr gy sme dkgy,bcm vfgr slty incr arg infil w/ dkbrn/blk org/carb grs,decr por & tt, scat pyr & mica flks- decr,decr lse ss grs

SHSLTST: bcm pred gy & brn,sme vfgr qyz, incr drty-tt slty w/ incr debris tumm mat dk grs & thn dk lam grdg to thn gybrn Sh bddg

SLTYSH: lt-mbrn & gybrn ltgy,mfrm ip vsft-cly & grny ip,rr vf ss grs,abnt-scat dk org mat,tuff debris,decr pyr,incr-abnt vf dism calcite nods, drty,tt

DMA
Wt. 8.9 Vis 44 pH 9.0 Wl 7.0 Cl 2600
Ca 40 Sol 4% Ck 2/32