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COMPANY NARAYAN & DEWANT ENERGY CO.  
WELL "SAGECREAK" #1-15-65 RDBW  
FIELD MIST  
LOCATION SAGECREAK #1-15-65 RDBW  
COUNTY STATE Kern, CA  
API WELL INDEX NO. 01-15-65-01  
ELEVATION 1000' TO 1000' KB  
DATES TO  
DEPTHS TO  
SPUD DATE  
DRILLING CONTRACTOR  
COMPANY GEOLOGIST  
MUD COMPANY  
LOGGING UNIT #4  
LOGGING GEOL. DATA

ABBREVIATIONS		CASING RECORD	
NB NEW BIT (MILL TOOTH/INSERT)	MW MUD WEIGHT	TO	TO
POC PC DIAMOND CUTTER	VIS FUNNEL VISCOSITY	TO	TO
RFB REFLUX BIT	YP YIELD POINT	TO	TO
RTB RETIP BIT	FL FLUID LOSS	TO	TO
CB CORE BIT	CL PPM CHLORIDE ON	TO	TO
TG TRIP GAS	Rm MUD RESISTIVITY	TO	TO
SG SURVEY GAS	Rm FILTRATE RESISTIVITY	TO	TO
WG WIPER GAS	LAT LOGGED AFTER TRIP	TO	TO
CG CONNECTION GAS	LAS LOGGED AFTER SURVEY	TO	TO
KG KELLY CUT GAS	NR NO RETURNS	TO	TO
WOB WEIGHT ON BIT	PR POOR RETURNS	TO	TO
RPM ROTARY REV/MIN	LCM LOG CIRC MATERIAL	TO	TO
PP PLUMP PRESSURE	CC CIRCULATE OUT	TO	TO
SPM STROKES/MIN		TO	TO

<input type="checkbox"/> SAND	<input type="checkbox"/> CLAYSTONE	<input type="checkbox"/> LIMESTONE	<input type="checkbox"/> TUFF	<input type="checkbox"/> GLAUCONITE
<input type="checkbox"/> SANDSTONE	<input type="checkbox"/> CLAY	<input type="checkbox"/> Z VOLCANIC	<input type="checkbox"/> FOSSIL	<input type="checkbox"/> PYRITE
<input type="checkbox"/> SHALE	<input type="checkbox"/> DIATOMITE	<input type="checkbox"/> V DOLOMITES	<input type="checkbox"/> M MICA	<input type="checkbox"/> MARL
<input type="checkbox"/> SILTSTONE	<input type="checkbox"/> CONGLOMERATE	<input type="checkbox"/> B BASALT	<input type="checkbox"/> L LIGNITE	

**PENETRATION ANALYSIS OF RETURNS REMARKS**

DEPTH	LITHOLOGY	OIL	GAS - UNITS	CHROMATOGRAPH - PPM	REMARKS
500'					All colors are referenced to GSA Rock Color Chart. All connection, carbide, survey and wiper gases reported as units above background; trip gas reported as maximum units. All gas detection equipment calibrated to SPWLA standard
566'					Notes: Begin logging @ 07:00 hrs 11-5-92
578'					Clay: pl yel brn, sft to sl frm; gd pliab; excel plast; v prly sol; sl to loc v aren; mica; v wk calc; tr yel-brn tuff debris; gd adhes; excel cones; tr flyl; dism carb mat.
600'					Tuff: pl yel-brn to pl or brn, vfn blk; spec; frm and crumbl; sbrndd to mod ind and crunchy; sbrndd to mod ind; silty w/cryptoclin to fn gritty tex; sl sandy; v wk calc; tr shell frags; com flyl; dism mica - blk carb mat.
650'					Siltstone: pl yelsh brn w/dk brn to blk carb lams - abd blk carb - mica incls; frm; pr to mod ind; loc vfn sandy; sl tuff app; grit to grainy tex; clay rich; v wk calc.
700'					Clay: pl to mod yel-brn, occ grysh brn; v thick, plastic consistency; v pr solubility; lrg nodular, malleable ctgs; greasy; silty, sandy w/v com v fn mica and dissem carbonaceous mat. bulk spl w/ky calc; cont'd contam f/cmt - spl in blender develops 400+ viscosity
750'					Sand: cl; clay; v fn; to fn; sbang; sl; sbrndd; unconsol - as con- s' - w/ calc; silty; sbrndd; silty; thin intds; arkosic w/v com fn mica & carb mat; cont'd tr pl yel- or tuff.
800'					Clay: pl to mod yel-brn, grysh-brn; v thick, plastic consistency; high plasticity; v pr solubility; silty; silty/sandy; homogeneous.
850'					Marl: v pl gry-wht (brnsh); hd; tough; earthy; v fn grainy tex; silty; silty w/ calc leaving silty/clay core.
900'					Clay: mod yel brn, loc dk brn; cont'd v thick, plastic consistency w/v pr sol; malleable nodules; lrg, rndd, malleable nodules; sticky; sl; expansive; pervasive v fn mica and org carbonaceous mat.
950'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1000'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1050'					Siltstone: mod yel-brn, exhibiting "K" type w/ calc; prly ind, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1100'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1150'					Siltstone: mod yel-brn, exhibiting "K" type w/ calc; prly ind, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1200'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1250'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1300'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1350'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1400'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1450'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1500'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1550'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1600'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1650'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1700'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1750'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1800'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1850'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
1900'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
1950'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
2000'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
2050'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
2100'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
2150'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
2200'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
2250'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
2300'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
2350'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
2400'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.
2450'					Siltstone: mod to dk yel-brn on fresh broken surfaces; prly indur, pasty to fri; clay-rich, hydrating to silty clay; mica- ceous w/v com org debris; occ clay calc; loc tr pl yel- or tuff debris.
2500'					Sand: pl; gry; clay; v fn; to fn; sbang; v; sbrndd; unconsol; arkosic w/v com and fsp; v com mica, Mnst; occ blk carb; v tuffaceous debris.