EXPLORATION LOGGING INC.

A GEOLOGICAL - ENGINEERING SERVICE CO.

REMARKS

DRILLING CONTRACTOR: W.W. DRILLING COMPANY — RIG NO. 1

SPUD DATE: 8/17/70

TYPE MUDS: WATER & GEL

CASING RECORD

8" AT 157'

AT

HOLE SIZE

12 3/4" TO 157'

7 7/8" TO 1090'

ABBREVIATIONS

NB	NEW BIT	W	MUD WEIGHT
RRB	RERUN BIT	V	MUD VISCOSITY
CB	CORE BIT	F	MUD FILTRATE ☒ CC/30 MIN
CR	CIRCULATE RETURNS	FC	FILTER CAKE
NR	NO RETURNS	SD	SAND CONTENT
PR	POOR RETURNS	S	SALINITY ☒ G/G NaCl
LAT	LOGGED AFTER TRIP		☐ PPM
TG	TRIP GAS	R	RESISTIVITY OF MUD
CG	CONNECTION GAS	RF	RESISTIVITY MUD FILTRATE
C	CARBIDE		
DST	DRILL STEM TEST		
]	DST INTERVAL		
▮	CORE INTERVAL		

OIL: Based on live oil in unwashed cuttings and percentage staining of washed cuttings.

GAS UNITS: Gas Detector calibrated to record 100 units with a mixture of 2% methane-in-air.

LITHOLOGY SYMBOLS

LIME-STONE · DOLO-MITE · GYPSUM AND ANHYDRITE · SALT · COAL AND LIGNITE · CLAY · SHALE · SILT-STONE · SANDY SILTST · SAND · CONGL-OMERATE · CHERT · VOL-CANICS · INTRU-SIVE

COMPANY	JACKSON & DAHL LEASING
WELL	No. 1
FIELD	BUENA VISTA
LOCATION	SEC. 24, T9S-R4W, WB&M
COUNTY, STATE	MARION, OREGON
API WELL INDEX NO.	
ELEVATION	173.5 (ROTARY TABLE)
DATE FROM	8/22/70 TO 9/2/70
DEPTH FROM	157' TO 1090'
UNIT NO.	Six
LOGGING GEOLOGISTS	W.D. LONGWILL B CHRISTOFFERSEN

EXPLORATION LOGGING INC.

DRILLING RATE AND DATA

▼ FT/HR

□ MIN/FT

VISUAL POROSITY: GAS TYPE, CORE, TEST

135 100 75 50 25

DEPTH: 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100

LITHOLOGY

OIL: FAC-TOR (TRACE, FAIR, GOOD); CUT (FAIR, GOOD)

DRILLING MUD

CONTINUOUS DITCH GAS

OIL IN MUD

TOTAL GAS (BACKUP SCALE = 10X)

TR X
FAIR XX
GD XXX

PETROL VAP

BLENDOR GAS

20 40 60 80 100 150 200

CUTTINGS

CUT (FAIR, GOOD)

GAS

TOTAL GAS (BACKUP SCALE = 10X)

PETROL VAP

20 40 60 80 100

8/22 WILLIAMS 47HJ 63FT 2HRS

RRB#2 GLOBE S3J 320FT. 12½HRS

8/23

RRB#3 WILLIAMS 47HJ 405FT 15HRS

125 100 75 50 25

8/24

RRB#4 REED TLJ 90FT 4½HRS

8/25

RRB#5 REED TLJ 100FT 15HRS

125 100 75 50 25

REMARKS AND LITHOLOGY DESCRIPTION

RAN 157FT STANDARD 53 LB CASING, CEMENTED WITH 55.5 SKS TYPE 3 CEMENT.

DRILLING AHEAD WITH 7 7/8 INCH BIT.

SALINITY OF RIG WATER 10 G/G.

CLY-CLYST, BRN, SOFT-FIRM, OCC SDY SS, LT GRY-FRM-SOFT, VFN-FN, WHT-CLR QTZ SD W/ GRY SLI CALC CLY MATRIX, W/ TRCS MUSCOVITE, LIGNITE; TRC PYRITE.

CLY, BRN, V/SOL, CARB.

CLY, A/A GRADING TO FIRM SILTST; TRC WHT/CLR & MD DK BRN CARB DOLOMITE.

W 9.1

CLY-CLYST-SILTST, DK BRN-DK GRY, FIRM, OCC V/SDY.

SS, LT GRY, VFN-FN, ANG WHT-CLR QTZ & GRY CALC MATRIX, MD W/ MUSCOVITE, LIGNITE; SH, RED/BRN, CARB; MD.

SS, A/A W/ RED/BRN SH.

SS, A/A W/ INC AMTS V/SOL BRN CLY, OCC AS CLYST.

SS, A/A, FN-MED G; CLY, BRN, V/SOL.

SS, A/A W/ BRN CLY-CLYST, OCC CARB.

CLAY: BRN SOFT, SOL W/ MINOR VFN SD A/A.

SAND: & SANDST SIMILAR TO ABOVE, VFN-MED QTZ FELDS W/ MICA SOME WITH FRAGS W/ BRN-GRY SOFT SOL CLAY, OCC THIN LIMEST OR LIMEY SILTST SHELLS.

C = 120U AT 40V

CLY, BRN, SOFT V/SOL; DK BRN, SILTST, FIRM-MD.

W 10.2 V 40

SD, WHT-CLR, FN-MED, SUBANG ANG, LOOSELY SORTED; FRS SHELL FRAGS, MICA, PYRITE; OCC THIN LIMEY SILTST-V/ARGIL LS SHELLS.

SD, A/A, FN-MED-OCC CLR ANG CSE SD.

SD, A/A, FN-CSE, W/ OCC DK BRN LS A/A.

SD, CLY, A/A; TRCS SHELL FRAGS.

STUCK PIPE AT 900FT.

CLY, DK GRY, SLTY, MOD INSOL W/ SD A/A; TRCS MUSCOVITE. SMPLS POOR.

CLY, SD, A/A W/ THIN DK BRN LS STRINGERS, V/ARGIL & MD.

W 69 V 47

C = 43U AT 47V

CLAY: MED GRY TO BRNISH SOFT, MOD SOL TO FIRM, SLTY, SOME BRN SILTST W/ TRC FORAMS, SLI SDY.

CLAY, MED GRY TO BRN SIMILAR TO ABOVE.

LOST STRING IN HOLE AT 1070FT.