Strip Lith. Log

FORM NO. 53-In stock and for sale by Ross-Murton Co., Tulsa, Okla.

COPY

COMPANY	STATE
H.K. RIDDLE	OREGON
WELL NO. / FARM	COUNTY
1 / Kiesel Estate	Malheur

T. 19 S R. 47 E

COMMENCED 10-5-54

COMPLETED

REMARKS 525' E WL, 110' S NL of SE/4 SW/4

12" Csg @ 130' w/122 sx.

ELEV. 2177' (ground)

PRODUCTION

Microscopic descriptions by H.W. DeJong; H.B. Bynum; J.R. Ward

Samples logged by Rotary Engr.

B-1

Hole drilled to 143' before setting casing—samples start at 143'.

100

Lt. gry. v.fg. ss & silt, soft, por. mica unconsolidated.

Poorly sorted cong. ss & frags of acid & basic ign. rx.
Lt. gry. v. – vf. silt, silty sh.
& porous.

200

v. sml. gas show @ 210 & 214' in mud & cuttings.
v. sml. gas show 30-32 as above
Frags. of granitic to basic rocks & med. q. to peb. unconsolidated
Lt. gry., soft silty sh. or shaly silt
v. sml. gas show 266-70 in mud

300

Soft, por. lt. gry. shly. silt, or silty sh.
v. sml. gas show 290-300 in mud

Soft, lt. gry. some sl. porous sh.

Same, some sl. calc. Bentonitic
sml. gas show 378-80' in mud

400

Same, sl. calc. v. sml. gas sh. 470-74 in mud

sml. gas show 480-602' in mud (2 sml. gas show 502-520 in mud & cuttings (4) units gas recorded 516-520 in mud)
Same w. f.m. gr. some cg. qtz. sd. w/ lgmts. ign. rock. Grains L & free
Same sd. as above. caving (?)

500

600

Soft gry. porous bent. sh.
Gas readings on analyzer throughout. Readings not consistant or persistant. Readings vary from o to max of 50 units

700

Tr. carb (?) material 740-45'

Gry, gummy, soft, bent. sh.

Soft, lt. gry. por. bent. sh. (ashy appearance)
Gummy sh. as above
Mixture of porous & gummy sh. as above
Porous sh. & sl. silty
Soft to firm sh.
Some gummy sh. 835-50'

800

900

Gry. vf-fg ss. Some v. small pellets gry to grn. gr. & red. V. soft & fri. Sd. gr. are clear q. Some mg., sub L to sub-rnd. Shaly a base. Non-persistant gas shows in sd. Not consistant
Lt. gry. soft, bent. sh. porous.

1000

Becoming firmer

Some calc. streaks
Tr. brn. sh. 1065-70'

gry. hd. calc. sh. 1085-1095'

1100

w. some gry. calc. bent. sh.

Lt. gry-grn., salt & pepper silty & shaly fg. friable soft ss., appears ark. when wet, w. some gry-grn. sh. interbdd. Some dense gry. ls. 1166-70. Some gry-brn. sh. No por. Gas readings low.
w. interbdd gry. bent. sl. calc. sh.
Shaly, silty fg. sl. calc. salt & pepper ss., lt. gry soft, fri. Good gas show 6-0 & 7-0
some gas bubbles at atmos. pressure.
Stringer gry. dns. ls. Lt. gry. sl. calc. hd. sh.
Ss. lt. gry. salt & pepper; shly, fg. por. calc soft, fri. Good gas show 4-0 & 54-0
some bubbles at atmos. press.
Lt. gry. bent. sl. calc. firm sh
Tr. ls. 1310-15'

1200

Dove-gry. sl. waxy to waxy sh.
Some lt. gry.-tan, hd. sh. 1365-80, 1405-10' Carb. (?) specks on sh. 1405-10 in gry. waxy sh.

1300

1400

Lt-gry to gry v. sl. calc. sh, sl. waxy to waxy. Tr. tan dense ls. 1440-42

Some imbedded sd. gr. Tr. blk carb. mat.
Tr. lt. gry dense arg. ls 1466-68 & tan dense ls. 1492-94
Tr. gry-grn shaly fg. ss. 1470-72

1500

B-2

Lt. gry. sh. bent.? Ashy text. Some sl. waxy

Gry. waxy sh. Tr. gry fg. shaly v. sl. calc. ss. 1585-90 interbdd

1600

Lt. gry & gry sh. Ashy text. Bent.? Some sl. waxy. Tr. lt. gry. dense ls. 1605-10
Most of spl. below 1605 not waxy & is lt. grey.

Same, some sl. waxy. Trace bl. carb.? mat. in lt. gry sh. Tr. shly fg. lt. gry v. sl. calc. ss 1645-50 & 1655-65

Spl. run 10% f.m.gr. some crs. clear subr. subrnd. frees. w/ some mgr. gry & grn. sh. Some large gr. or pebb. gry to blk qtz. & basalt, prob. interbdd w/ silty gry to gry-grn. sh. Hd. silt. 1684-86
Gry. bent. & waxy sh. interbdd. Some pebb. of gry qtz. & basalt pebs embdd. Tr. lt. gry & brn. dnse ls.
Stringer lt. gry. sdy ls. w/ carb. specks.

1700

Lt. gry. bent.? sh. w. free f.cg. clear subr. sd. Some pebb. Rotary eng. starts logging trace at 1796
Prob. thin bent. beds sh (6') gry waxy w. sd. f.c.g. clear subr. to subrnd qtz. & basalt. Spls 1840-50 have more sd. & peb.
Some peb. & gr. embedded in sh

7"

1800

1900

v. little sd. 900-08 in spl. at the Rotary logs some sd. below 1892. Trace spl. 1908-10 were gry waxy firm sh.

Trace sd. f.c.g. subr. to clear & dk gry to blk & grn. sh. & prob. gry unc. gl. or f.gr. x'ln basalt. Max 5 units gas mud in cuttings.
Same; some rnd. dk gry peb. qtz. Gas dropped in mud 1922-26, 2 in cuttings
1928-36 mostly gry waxy sh. Some lt. gry shaly & soft v. f-f.g. Some free gr. as above 1926-32. Same w/ some pebbles
DST 1908-22. Packer failed. ss stringers f. v.fg & subr. qtz & basalt. 0 gas in cuttings, 34 in mud. sl. bent.
Lt. gry. sh. calc. cemed ss stringers f. v.fg. some pinhole porosity
Lt. gry. sh & ss stringers, mica in ss.
Gas: 4 in cuttings & 42 in mud.
gry silty ss 1920-25
Gry ss. poor cem. Rhyolite & basalt frgmts. pinhole porosity. Gas show 4-0 & 42-0. Poor spls
f. gry. sdy. bent. sh. Some mica. Calc. tok. glass.
Same as above, c.sg. to grns. & subr. clear smoky.
Loose f. mg sd. & subr. "salt & pepper" ss some clear grns. basalt & chert.
DST 2152-78' · tool open 1 hour, air in 3 min. good blow. H.P. 1200# I.F.P. 150# F.F.P. 200# Rec. 200' gas cut H2O.
Good gas show 6-0 & 70-0
Lt. gr. sl. sdy. bent. friable sh. sl. calc.; stringers of dense tan ls
F. mg & subr., salt & pepper ss., & gl. stringers, calc. cem. Gas show 8-0, 38 units

2000

2100

2200

2300

Gry to tan, waxy sl. sdy. fri. shale
Same as above w/ stringers. Sdy ls
Lt. gry f-mg & sub-rnd clear to smoky qtz ss. unconsol.
Lt. gry. waxy, bent. sh
Tan to brn. sh. v.f. volc. & qtz incl.
Lt. gry. sh. thin stringers of calc. salt & pep ss. Gas show 8-0 & 48-0.
Becoming oolitic, salt & pep. calc. cem f.c.s.e. qtz & bas. pinpoint porosity

2400

Lt. gry. friab. sdy. sh.
Same as above w/ qtz. pebbles

Unconsol. ss f.c.s.e. & subr. grns. to cemented salt & pep. ss pinpoint por.
Good gas show @ 2470 18-0 & 24-0

2500

Lt. gry. dns. fri. sl. sdy. sh. becoming waxy & bent.

2600

Loose salt & pep. ss. becom. cemented calc. cem. Gas show 12/2 units
Lt. gry. sdy. sh. break.
Loose salt & pep. ss as before grading to oolitic & well consol, f.c.s.e. & subr. grns
Gas 19-0 & 54-0
Lt. gry. fri. sh. break.
Lt. gry. sh. fri. & sdy., some sd. stringers

2700

Sdy. sh. as above
Salt & pep. cgl. calc. well cem. Gas 20-28
gry. sl. sdy. sh.

Loose sd. stringers

Gry. waxy sh. as before.

2800

Loose salt & pep ss f.-c.s.e. & subr. becoming well cem. & oolitic

Lt. gry to tan sl. sdy. friable & waxy sh.

Same as above

2900

well cem. & subr. ss stringers
Gry. sdy. fri. sh. as before

Sh. as above. More sdy. Some free qtz. grns.

3000

Soft, f.-m. calc. & subr. salt & pep cgl.

Gry. sdy. fri. shale break

3100

Salt & pep. cgl. as before, 0 to gas show
Cgl. becoming sdy, loose & subr. qtz & blk cherts.
Soft, gry sl. sdy. fri. sh
Same as above.
Gry to tan sh., fri. sl. calc.
ss & cgl. as above. Gas 0-20
Sh. break & loose s.&p. sds
Gry to tan sl. sdy. fri. sh. becoming v. gummy @ 3185-3200'.

3200

Lt. gray to tan, sl. sdy, sl. calc. sh.

B-3

3300

Gas show 4-0 & 18-0

Same lith. as above.

Gry. sl. sdy. fri. sl. calc. sh. contains mica

3400

Shale as above

Shale as above
Increase in mica content.

Tan shale. Dense sl. sdy. as above
pyrite in shale

3500

Lt. gry sdy soft shale as before

Gry. salt & pep. cgl. soft. calc. as before

3600

Lt. gry sdy sh. as before.

Lt. gry. f-v.fg & subr. sd. small pyrites

Dk. grey f-v.f & subr. ss. free c.s.e. grns. & pyrite

3700

Brk. x'ln basalt 3790-95

3800

Lt. gry sdy. sl. bent. sh. as before

Fractured, micro-x'ln to x'ln olivene basalt. Pyrites in basalt
Gas show 0-0 & 36-0.

3900

Lt. tan to brn. sl. sdy. friable sh

Broken olivene basalt.

Gry to tan sl. sdy. sl. calc. fri. sh

4000

4½" Cemented Oolite

Same as above

4100

w/ pyrite incl. in shale sh. is prob. of volc. origin
w/ stringer v.f. fg & subr. silty ss w/ pyrite x'ls. Lt. 4110-15
Lt. grey to white volc. ash or tuff soft, fri. fibrous text.
Lt. gry to tan fr. sl. sdy. calc. sh.
Broken basalt, more feld. phenos
Some pyrite. Weathered at 4160
Lt. gry. sl. silty sh., fri. loc. sdy

4200

4206-12: 2 units out, 4 units mud
Basalt dk. gry. f.-x'ln. abs. pyrite v.f. x'ls, top 4212'

Sh. gry to dove grey sl. silty, fri.

4268-70 6 units gas in mud
4270-72 8 units gas in mud
Some dk. gry. sh.

4300

Basalt dk. gry to grn. gry. loc. tr. arsenopyrite
w/ abd. pyrite diss. x'ls.
w/ thin calcite veining some x'ls.
Sh. as ab. w/ tr. v.f.g. lt. salt & pep. sl. calc. firm ss
w/ tr. white ash

Ss. gry-wh to lt. gry v.f.g. turn to hd. calc. Free qtz. tymts.

4400

Sh. lt. gry. waxy, becoming dove-gry-silty. Same sd as above
tr. chert

w/ tr. lt. gry. v.f.g. to silty ss

Black basalt stringer sl. pyritic

4500

w/ brn. to lt. brn. sl. calc. sh.

Congl. ss - & subr. to sub-rnd. c.g. qtz & basalt frgmts. Matrix lt. gry v.f.g. to silty ss. Tight ill-sorted. Grades to f.g. ss. downward
Grn. gry. ashy sh. some qtz. peb stringer. f.r.g. ss as above
Dove-gry. platy hard shales

4600

Brn. to gry brn. sh. Tr. v.f.g. ss.

Free gr. gry. ss. to cgl. - poorly sorted

Gry-brn. sh. w/ occ. f.g. to v.f.g. sd stringers

4700

Grn. gry ashy sh.
White ash
Dove gry to gry. sh.
Grn-blk - finely x'ln basalt

Dense, gry to steel gry. basalt

Basalt: exhib. brownish alteration

4800

Brownish to maroon to greenish silt, silty & shaly ss.

Basalt w/ brn. to dove-gry sh & white ash interbds.

White ash
Basalt, dk. grn. grey - finely x'ln
Sh. gry. loc. mic.
Basalt, grn. gry. finely x'ln.

5000

Basalt: steel gry to black dense hd. grading to dk. grn. gry basalt

Basalts w/ interb. white ash

Basalts w/ qtz veining. Gas readings in mud increased sharply from 40 units to 96 units at 5044' to 110 units at 5048, thence decreasing to 40 units at 5054'.

5100

4½"

Basalts, dk. grn-gry finely to ssly x'ln. w/ some hd. black basalt dense

TD 5141