

Denver, Colorado
June 11, 1953

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COLO. OIL & GAS CONS. COM

FINAL REPORT

CONTINENTAL OIL COMPANY
PERCY FERRY #1
(DEEPENING OF OLD WELL)

LOCATION:

G SW NW; Section 13, Township 9 North, Range 61 West;
Weld County, Colorado

ELEVATION:

1982 Ground Level
1993 K.B.

SPUDED:

Old well completed: February 12, 1953 at T.D. 7552 in Morrison
Deepening of well started May 2, 1953

COMPLETED:

May 29, 1953 at T.D. 8516 below base of Lyons Sandstone as DRY HOLE

FORMATION TOPS: (Corrected to Schlumberger)

"J" Sand	7188 (-2197)
"M" Sand	7462 (-2469)
Morrison	7520 (-2527)
Sundance	7720 (-2727)
Spearfish ?	7815 (-2822)
Top of Permian ?	7975 (-2982)
Day Creek (1st Anhydrite)	8104 (-3111)
Elaine ?	8258 (-3265)
Lyons Sandstone	8376 (-3383)

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- 7610 - 7620 Shale, light green; trace limestone, light gray as above
7630 As above
7640 Shale, light gray to light green gray, slightly bentonitic, slightly calcareous, firm; limestone, tan to light brown gray, massive, firm, dense; black shale and cement cavings
7650 Limestone as above, tan to light gray
7660 As above
7670 Shale, varicolor, light green, light gray, light brown, trace maroon, firm; trace maroon, firm; trace limestone as above
7680 As above
7690 As above
7700 Limestone, light gray to gray, massive, dense, medium hard, shale, varicolor as above
7710 As above also sandstone, light gray to white, firm to medium, sub-round to sub-angular, hard, slightly porous (believed to be cavings)
7720 Shale, green to gray, firm; limestone, light gray to brown as above; Gypsum, white, very fine crystalline to sugrosic, soft; with some imbedded chert, milky to clear.
Circ. at 7728 Shale, calcareous, dark gray to light gray, some sandy, firm; trace gypsum and chert as above
30" at 7728 As above also sandstone, white, fine, sub-round, much white cement, few orange grains, firm, tight
60" at 7728 Limestone, gray to gray brown, massive, dense with milky chert inclusions; sandstone, as above, HS; Shale, dark gray to gray, as above
90" at 7728 As above

Sundance or Entrada 7720 (-2727)

- 7728 - 7730 Shale, dark gray, some sandy; calcareous, firm; with trace gypsum, white; trace sandstone as above
7740 Sandstone, buff to tan, fine, subround to sub-angular, slightly calcareous, firm, N.S., slightly porous.
7750 Sandstone, buff to pink to light brown orange as above
7760 Sandstone, as above, becoming slightly micaceous
7768 As above

Possible Triassic Redbeds (Spearfish)? 7740

- 7770 Sandstone, pink to light brown orange, fine sub-angular, slightly calcareous, slightly micaceous, firm, tight to slightly porous.
7780 As above
7790 Sandstone, pink to light brown red as above and little shale, silty, brick red, micaceous, firm
7800 As above
7810 Sandstone as above but more micaceous grading into siltstone, pink to light red brown, slightly micaceous, slightly calcareous, firm, tight, trace shale, dark red, firm
7820 As above
7830 Siltstone, light red brown to trace light green gray as above; shale, dark red, firm
7840 As above

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- 7840 - 7850 Siltstone red, as above, with shale, red, firm.
7860 No sample
7870 No sample
7876 Siltstone, red as above
7880 Silty shale, red, micaceous, slightly calcareous, firm
7890 Shaley siltstone, brick red, micaceous, slightly calcareous, firm
7900 As above
7910 As above
7920 As above, also sandstone, white to clear to light gray, fine sub-angular, non-calcareous, some with pyrite grains, firm, tight to slightly porous (savings?)
7930 Shaley siltstone as above, also shale, cinnamon red, firm
7940 As above, trace pyrite
7950 Shale, dark red, silty, slightly micaceous, firm
7960 As above
7970 As above, trace gypsum, white, very fine sucrosic, soft

Top of Permian 7975 (-2982)

- 7980 Siltstone, shaley, red and shale, brick red
7990 As above
8000 As above, very slight trace gypsum, white, sucrosic, soft
8010 As above
8020 As above
8030 Shale, brick red, slightly silty, slightly gypsiferous, slightly micaceous, firm
8040 As above also little silty shale, light green gray, micaceous, firm
8050 Shale, brick red as above; trace gypsiferous, white, very fine crystalline, firm, trace limestone, light gray, massive, hard, dense
8060 As above
8070 Shale, brick red as above; trace pyrite, very slight trace limestone, gray as above
8080 As above
8090 As above, slight trace gypsiferous inclusions, white, very fine crystalline
8100 As above
8110 As above, no gypsum

Day Creek (1st Anhydrite) 8104 (-3111)

- 8120 Anhydrite, pink, massive to microsucrosic, firm to hard; dolomite, anhydritic, pink to red, massive, hard, dense.
8130 Anhydrite as above; trace dolomite as above; shale, brick red and siltstone, red to pink, gypsiferous, firm
8140 Shale, brick red to slightly gypsiferous, little anhydrite as above
8150 - 8170 As above
8180 Anhydrite, white, fine crystalline to very fine sucrosic, hard to soft, dense; gypsum, white, massive, chalky, dense, soft
8190 As above

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- 8190 - 8200 Anhydrite white to light gray as above; trace dolomite, light gray, massive, dense, hard
8210 As above
8220 As above
8230 Anhydrite, as above but pink, slightly silty; shale, red, some silty, firm
8240 Dolomite, gray, massive, hard, dense; also as above
8250 Dolomite as above to reddish, microcrystalline

Blaine? 8258 (-3265)

- 8260 Anhydrite, white, very fine crystalline to massive, hard; shale, brick red, slightly micaceous, firm
8270 Shale, brick red as above with inclusion anhydrite, white, also anhydrite as above (cavings)
8280 As above
8290 Shale, brick red, firm with anhydrite, white as above
8295 As above
8300 As above
8305 Gypsiferous siltstone, pink to red, granular to very fine, sub-angular, slightly micaceous, firm to soft, tight, most grains and cement is gypsum
8310 As above, also shale, brick red, slightly silty, slightly gypsiferous, slightly micaceous, firm
8315 Shale, red as above, also anhydrite, white, sucrosic, firm
8320 Gypsiferous siltstone, pink to light red, granular to very, very fine, sub-angular, firm, tight
8325 As above, with shale, dark red, slightly gypsiferous
8335 Shale, dark red and anhydrite, white as above
8340 - 8355 As above
Drilling break at 8356-60; Circulation at 8360
8360 As above
30 Min. Circ. 8360 Anhydrite, white to trace pink, very fine crystalline to granular, soft; also shale, dark red, trace green mottling.
60 Min. Circ. Shale, dark red to brick red with imbed crystals anhydrite, red?
1½ Hr. Circ. As above
2 Hr. Circ. Shale, red as above without crystals; gypsiferous siltstone, pink to red, granular to very fine grained, firm, tight, grains with cement gypsum
8360 - 8365 Shale, brick red, some silty, firm; anhydrite, white, sucrosic to very fine crystal, firm; trace dolomite, tan, massive, hard, dense.
8370 Shale, brick red as above; trace siltstone, gypsiferous, pink, angular, very, very fine, firm, tight

Lyons Sandstone 8376 (-3383)

- 30 Min. Circ. 8375 As above
1 Hr. Circ. at 8375 As above also sandstone, white to buff, fine to medium, red, much gypsum cement, firm, tight. N.S. No fluorescence

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- 1½ Hrs. Circ. at 8375 Sandstone as above, trace slight porosity, with brown color (oil stain) and spotted oil fluorescence. Much black asphaltic residue between grain, also gypsum?, white, chalky intermixed with black asphaltic residue.
- 2 Hrs. Circ. at 8375 As above

Core #1: 8375-95 = 8381-8401 by Schl. Recovered 20 Feet

- 4' Sandstone, black, very fine to medium, sub-round to round, anhydritic, much black asphaltic residue and anhydrite cement, non calcareous, medium hard, slightly porous and permeable, tight, with white granular anhydrite inclusions. Oil and gas odor, slight oil staining, speckled yellow oil fluorescence, bleeding oil slightly.
- 1½' Anhydrite, sandy, white, granular to fine crystal, sub-round, hard, dense; some inclusions of black asphaltic residue
- 4½' Sandstone, black and anhydrite, sandy, white, interlaminated and interbedded 65% sandstone. Sandstone, black as in first 4' except not as much anhydrite cement or black residue, medium hard, slight perm-perm. Slight oil staining; oil odor; speckled fluorescence and bleeding oil slightly in top 2'. Bottom 2½' had brackish odor.
- 7' Anhydrite, sandy, buff to tan to light brown, granular to fine crystal, very slightly pyritic, medium hard, tight with occasional parting or inclusion of black residue; very slight oil odor, spotted yellow to white oil fluorescence
- 3' Sandstone, black, fine, sub-round to round to sub-angular, anhydritic, much black residue, medium hard, porous and permeable; oil odor with slight stain in top 1'. Bottom 2' had brackish odor. Speckled fluorescence throughout.

Ran Schlumberger T.D. Drlr. 8395 = T.D. Schl. 8401

Drill Stem Test: 8378-8389 (Schl. Depth) T. D. 8401 1000' W.C.

Tool open 2 hours; closed 20 minutes

Very weak blow 45 minutes then suddenly strong decreasing to fair blow until 2 hours.

Recovered 1000' W.C. (Muddy) 4425'

Muddy Brackish Water with foul odor.

B.H.P.F.: 500-2386#; B.H.P.S.I.: 2610#; H.H. 4330#

8395 = 8396.7 by SIM

Samples by Driller's Depth

- 8395 - 8400 Cavings - shale, red; anhydrite, white; shale, black and gray
- 8405 Cavings, trace sandy anhydrite, buff, granular, firm, tight
- 8410 Shale, red; shale, gray, slightly silty, slightly gypsiferous with cavings
- 8415 As above
- 8420 As above, trace sandstone, anhydritic, buff, medium to fine, red, firm, tight
- 8425 Cavings, trace sandy anhydrite, buff, granular, firm, tight

Note: 8395 - 8425 Samples very poor. Geologist indicates probable drilling sandstone.

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- 8425 - 8435 Sandstone, anhydrite, buff, fine, sub-angular to sub-round, medium hard, slightly porous, NS; shale, brick red
8440 Shale, red and black, trace sandstone, anhydrite as above, also trace anhydrite, white, fine crystal, medium hard, dense
8445 Sandstone, buff to cream, anhydritic, fine, sub-angular, medium hard, slightly porous to porous.
8455 Cavings - drilling like sandstone as above

Core #2: 8458-8503 = 8454-8499 by Schlumberger Recovered 44'

- 31' Sandstone, gray to gray brown to clear, very fine to fine to medium, sub-angular to sub-round, much anhydritic cement, slightly friable, some scattered white anhydrite inclusion with occasional gray shaley parting, medium hard. Slightly porous and permeable - porous and permeable. Odor - none - slightly brackish, no fluorescence; trace oily taste. Becoming pinkish in bottom.
4' Sandstone, red to red brown to light brown to pink, very fine to fine to medium fine, rd to sub-round, frosted grains, anhydritic cement, hard, slightly porous to tight, no odor, no taste, no fluorescence. Grading into siltstone below
9' Siltstone, light brown to brick red, anhydritic, hard, no porosity, no permeability. No odor, no taste, no fluorescence

Cuttings

- 8505 - 8510 Sandstone, light red as in core and siltstone, some shaley as in bottom of core
8515 Siltstone as above and shale, dark red, silty, gypsiferous, firm
8521 Shale, red as above
30 Min. Circ. at 8521 As above
1 Hr. Circ. at 8521 As above

Ran Final Schlumberger
Schlumberger T.D. 8516 = 8521 by Driller

By: Thaddeus R. Carpen

Date: June 12, 1953

Approved by: Joseph H. Gath Jr.

Date: June 12, 1953

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Denver, Colorado
February 13, 1953

GEOLOGICAL SURVEY OF WYOMING

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COLO. GEOL. SURVEY

FINAL REPORT

CONTINENTAL OIL COMPANY
PERCY PERRY #1

LOCATION:

626 FSL; 608 FWL; NW¹/₄, Section 13, Township 9 North, Range 61 West,
Weld County, Colorado

ELEVATION:

4982.3 Ground Level
4991 D.F.

SPUDDED:

January 18, 1953. Set 10 3/4" surface casing to 265

COMPLETED:

February 12, 1953 at T. D. 7552 by Schlumberger,
7551 by driller

FORMATION TOPS: (Corrected to Schlumberger)

Niobrara	6425	(- 1434)
Timpas	6637	(- 1646)
Greenhorn	6905	(- 1914)
"D" Sand	7113	(- 2122)
"J" Sand	7190	(- 2199)
Skull Creek	7302	(- 2311)
"H" Sand	7460	(- 2469)
Morrison	7518	(- 2527)

CORES: (Descriptions included in Sample Description)

Core #1	7196 - 7200	Recovered 4 feet
Core #2	7203 - 7221	Recovered 16 feet
Core #3	7221 - 7244	Recovered 16 feet
Core #4	7248 - 7277	Recovered 29 feet
Core #5	7481 - 7500	Recovered 18 feet

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DRILL STEM TESTS: (Data included in Sample Description)

D.S.T. #1	7190 - 7200	Recovered 15 feet mud
D.S.T. #2	7191 - 7221	Recovered 240 feet mud; 12 feet slightly gas cut mud
D.S.T. #3	7214 - 7244	Recovered 230 feet slightly oil and gas cut muddy water

WELL HISTORY:

1-18-53: Spudded and drilled to 310'. Set 10 3/4" surface casing to 265'. Cemented and let set 48 hours; drilled ahead.
1-28-53: Changed to oil emulsion mud.
2-6-53: Lost circulation at 7277'.
2-11-53: Drilled to T.D. at 7551 in Morrison shale. Ran Schlumberger
2-12-53: Plugged with 15 sacks cement from 7550 - 7513; 20 sacks from 7200 - 7150; 10 sacks from 266 - 246; 5 sacks top of surface casing.
2-13-53: Abandoned location.

SAMPLE DESCRIPTION:

Samples are not corrected for lag but tops have been corrected to Schlumberger. Samples run by Arthur F. Brunton at well site.

6200 - 60 Shale, dark gray to black, fissil, micaceous
6260 - 80 As above. Trace gypsum
6280 - 6330 As above; no gypsum
6330 - 60 As above; trace bentonitic
6390 - 6430 As above; trace calcareous

Top of Niobrara 6425

6430 - 40 Shale as above; trace shale speckled with white, soft limestone; trace pyrite.
6440 - 60 As above; no pyrite
6460 - 80 As above; trace brown to buff limestone
6480 - 90 As above; trace marcasite
6490 - 6510 As above, no marcasite; trace bentonitic
6510 - 30 Limestone, tan to buff, soft, very shaley, speckled; trace bentonitic, waxy; some shale, black, fissil, calcareous
6530 - 40 As above; trace pyrite
6540 - 70 As above; no pyrite
6570 - 6600 Shale, gray to black, speckled with tan, white, soft, limestone; trace gypsum
6600 - 30 Shale, gray to black, soft, fissil, calcareous
6630 - 40 Shale as above; trace limestone, white to gray, soft, massive, dense, microcrystalline; trace gypsum

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Top of Timpas 6637

- 6640 - 50 Shale as above; some limestone as above; no gypsum
6650 - 60 Limestone, white to gray, soft, chalky, very fine crystalline, massive, dense; some shale, gray to black, fissil, calcareous
6660 - 70 As above
6670 - 80 As above; no gypsum
6700 - 10 Shale, gray to black, soft, calcareous, fissil, bentonitic; trace limestone as above; trace pyrite
6710 - 6800 Shale as above, non bentonitic; trace limestone as above; no pyrite
6800 - 30 Shale, gray to black, soft, fissil, slightly calcareous
6830 - 70 Shale as above; trace limestone, white to gray, massive, dense, fine crystalline; trace gypsum
6870 - 6900 As above; no gypsum

Top of Greenhorn 6905

- 6900 - 6960 As above; trace bentonite; some limestone as above
6960 - 70 As above with pyrite
6970 - 80 As above with gypsum
6980 - 7000 As above; no pyrite
7000 - 50 As above; no gypsum
7050 - 80 As above; trace pyrite
7080 - 7100 Shale, gray to black, fissil, soft, silty; trace bentonite and pyrite
7100 - 10 Shale as above; trace soft brown limestone
7110 - 20 Shale as above; some bentonite; trace sandstone, brown, hard, tight, fine grained.

Top of "D" Sand 7113

- 7120 - 30 Shale as above; trace bentonite; no sandstone
7130 - 40 As above; some pyrite
7140 - 80 Shale as above; some bentonite
7180 - 90 As above, very silty
7190 - 96 Circulated sample; shale as above with some sandstone, white to brown, fine to medium grained, sub-rounded to angular, porous, stained, fluorescent

Top of "J" Sand 7190

- Core #1: 7196 - 7200 Recovered 4 feet
7196-7200 Sandstone, white, brown to tan, intermixed with black shale; slight odor, tight

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Drill Stem Test #1: 7190 - 7200
Open 20 minutes, reset
Open 40 minutes
Shut in 15 minutes
Slight blow, dead in 10 minutes
Recovered 15 feet mud
FP - 0
SIP- 0
HH - 3950

Core #2: 7203 - 7221 Recovered 16 feet
7203-10 Sandstone, white, tan, yellowish, fine grained,
subangular to rounded, tight, trace stain
7210-15 Sandstone, white, tan to yellowish, fine
grained, soft, trace porous, trace odor and
stain
7215-21 Sandstone, white, brown to tan, fine grained,
hard, tight, subangular to rounded

Drill Stem Test #2: 7191 - 7221
Open 120 minutes
Shut in 30 minutes
Reset after 50 minutes
Slight blow throughout
Recovered 240' mud; 12' slightly gas cut mud
FP - 0
SIP- 1000
HH - 4000

Core #3: 7221 - 7244 Recovered 16 feet
7221-24 Sandstone, brownish, very fine grained, subrounded
to angular, vertical fracture; trace fluorescence,
wet
7224-25 Sandstone, white to buff, fine grained, subangular
to rounded, porous, wet, friable, vertical fracturing
7225-26 As above; vertical fractures
7226-29 As above; trace odor
7229-31 Sandstone, white to dark gray, black speckled, medium
to coarse grained, trace odor, friable, some fluor-
escence, vertical fracture, angular
7231-35 Sandstone, dark gray, black speckled; trace bluish,
coarse grained, angular, trace odor, fluorescence,
vertical fracture, hard, porous
7235-37 As above, fine grained tight

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Drill Stem Test #3: 7214 - 44

Open 60 minutes
Shut in 15 minutes
Faint weak blow throughout
Recovered 230' slightly oil and gas cut muddy water
FP - 50
SIP- 2050
HH - 3800

Core #1: 7218 - 7277 Recovered 29 feet

7218-56 Sandstone, white to light gray, very fine grained, hard, subangular to rounded, tight, slightly shaley
7256-60 Sandstone as above with black shale streaks; slightly wet
7260-62 Sandstone as above; vertical fractures
7262-67 Sandstone, light gray, very fine grained, trace porous, vertical fracture, shaley
7267-70 Sandstone, tan to buff, hard, dense, tight, very fine grained, vertical fracture, streaks of green gray waxy shale
7270-73 Sandstone, as above, silty, trace porous
7273-77 Sandstone, brecciated, light gray, brownish, shaley cement; very fine grained, silty
7280-7320 Shale, gray to black, fissil, some sand, white to buff, fine grained, subangular to rounded, friable

Top of Skull Creek 7302

7320 - 30 As above, silty
7330 - 60 As above, trace calcareous
7360 - 70 As above, trace bentonitic
7370 - 90 As above, no bentonitic
7390 - 7430 Shale, gray to black, very silty, fissil; trace sand as above
7430 - 50 As above; trace bentonitic

Top of "M" Sand 7460

7450 - 7460 As above, no bentonitic; trace pyrite
7460 - 80 As above, some sandstone, gray to buff, fine grained, friable

Core #5: 7481 - 7500 Recovered 18 feet

7481-85 Sandstone, very fine grained, light gray, quartzitic, hard, tight, adamantine luster, vertical fracture
7485-98 Shale, light to dark gray, hard, fissil, silty, slightly silicious, carbonaceous, pyritic
7498-7500 Sandstone, brown gray to dark gray, hard, tight, trace odor, shaley, silty, trace porous, vertical fracture

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7500 - 40 Shale, dark gray to black, fissil, some sandstone,
brown, very fine grained, shaley, subangular to
rounded, hard; trace siltstone, gray; trace pyrite

Top of Morrison 7518

7540 - 50 Shale, black, gray silicious, green silicious, fissil;
trace sand, white to brown, fine grained, shaley,
subangular

By: Arthur L. Brunton
Date: Feb. 17, 1953

Approved by: Joseph H. Galt Jr.
Date: Feb. 17, 1953