

COMPANY DAMON PETROLEUM CO., INC.
 WELL Stauffer Farms #35-1
 AREA Hubbard Prospect
 LOCATION NW 1/4 Sec 35, T 4S, R 1W
 ELEVATION 170 Ft Ground

DAMON PETROLEUM CO., INC.
 1359 N. PACIFIC HWY., BLDG 1
 SUITE G, P.O. BOX 283
 WOODBURN, OR 97147
 (503) 981-7447

DATE October-November-December 1986
 COUNTY Marion STATE Oregon
 GEOLOGIST Vernon C. Newton Jr

DEPTH 0 TO 550'
 HOLE SIZE 6 3/4" CASING 8 5/8" @ 350'

MUD TYPE GEL PUMP SIZE 5 X 10 PIT CAPACITY 100 BBls

PAGE 1

Drilling Rate Bit Data	Depth	Cuttings Lithology	Combustible Gas	Descriptions
100 50	0			Silt and Sandy Silt; bun- gry, fine sandy, feldspathic composition. Mud Wt 8.7# Vis 45
	100			Sand; gry-dk gry, consists of med. - coarse grains of basalt, silty, some volc. tuff frags. Clay: dk grn gry, very sticky.
	200			Sand; dk gry, basaltic, argillaceous. Gravel; dk gry - blk, con- sists of basalt pebbles. Prob water zone, gravel contains Mud Wt 9.0# Vis 45
	300			Gravel; dk gray, consists of subangl. - angl. frags of basalt. Prob. water zone.
	400			Clay: dk grn gry, heavy, sticky.
	500			Sand; dk gry, basaltic, some med. gry. tuff frags. Clay: dk grn gry, soft, sticky. Partial circ.
				Mudstone and Shale; dk grn gry, firm, some brittle shal particles. Partial circ.

COMPANY DAMON PETROLEUM CO., INC.
 WELL Stauffer Farms #35-1
 AREA HUBBARD PROSPECT
 LOCATION Fm NW Cor Sec 35, 1100' S
 and 625' E
 ELEVATION 170' Gr

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DATE December 1986
 COUNTY Marion STATE Oregon
 GEOLOGIST Vernon C. Newton Jr

DEPTH 550' TO 1050'
 HOLE SIZE 6 3/4" CASING 8 5/8" @ 350'

MUD TYPE Gel PUMP SIZE 5 X 10 PIT CAPACITY 100 BBls

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Drilling Rate Bit Data	Depth	Cuttings Lithology	Combustible Gas	Descriptions
100 50	600			Mudstone and Shale; med - dk grn gry, soft-firm, some gray-brn shale, argill. Mud Wt 8.9# Vis 48
	700			Mudstone and Shale; med - dk gray, brittle. Mud Wt 9.0# Vis 48
	800			Mudstone and Siltstone; med - dk grn gry, argillac. slightly tuffac., some coal.
	900			Mudstone; med - dk gry, slightly tuffac, frags of carbonaceous material.
	1000			Siltstone; med gry, tuffac. tiny black inclusions of black organic material. Mud Wt 8.9# Vis 48
				Sandstone; med gry, fn-med grained, tuffac., some coal.
				Siltstone; med - dk gry, firm, firm, argillaceous, some coal.
				Mudstone; dk grn gry, firm, argillac.

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DATE December 1986
 COUNTY Marion STATE Oregon
 GEOLOGIST Vernon C. Newton Jr

DEPTH 1050' TO 1550'
 HOLE SIZE 6 3/4" CASING 8 5/8" @ 350'

MUD TYPE Gel PUMP SIZE 5 X 10 PIT CAPACITY 100 BBls

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Drilling Rate Bit Data	Depth	Cuttings Lithology	Combustible Gas	Descriptions
100 50	1100			Mudstone; dk grn gry, soft-firm, argillac., some coal, probably stringers. Siltstone; med - dk gry, firm-soft.
	1200			Mudstone; dk grn gry, firm, argillac., some lignite in lower section. Mud Wt 8.9# Vis 48
	1300			Mudstone; as above Mudstone; as above, with some coal.
	1400			Basalt; black, hard, slight alteration, also basaltic tuff, sample shows zeolite and calcite veinlets. Some med gry, tuffac., sandstone Mud Wt 9.2# Vis 45
	1500			Tuff; basaltic as above and volc. ash. Some shale. Basalt; dk gry-blk, hard, partly altered. Some med-dk gry shale. Tuff; dk gry brn, v. firm, and volc. ash. Basalt & Basaltic Tuff; dk gry - blk, hard, partly altered. Tuff; med gry white, with minute black fragments.

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DATE December 1986
 COUNTY Marion STATE Oregon
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DEPTH 1550' TO 2050'
 HOLE SIZE 6 3/4" CASING 8 5/8" @ 350'

MUD TYPE Gel PUMP SIZE 5 X 10 PIT CAPACITY 100 BBls

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Drilling Rate Bit Data	Depth	Cuttings Lithology	Combustible Gas	Descriptions
100 50	1600			Basalt; dk gry-blk, silty altered, hard, with veinlets of quartz, calcite & zeolite. Volcanic Ash; med-dk gry, firm, with minute black fragments. Mud Wt 9.4# Vis 48
	1700			Basalt, Tuff and Volcanic Ash. Mud Wt 9.6# Vis 37
	1800			Shale; med gry, firm, silty, slightly tuffaceous. Volcanic Ash; med, whitish gray, firm with minute black fragments. Basalt; dk gry-blk, hard slightly altered, micro- crystalline, some basaltic tuff. Volcanic Ash and Siltstone; ash as above and med gry, faint firm siltstone. Some shale. Mud Wt 9.2# Vis 45
	2000			Altered Basalt and Basaltic Tuff; veinlets of quartz, calcite and zeolite.

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DATE December 1986
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DEPTH 2050' TO 2550'
 HOLE SIZE 6 3/4" CASING 8 5/8" @ 350'

MUD TYPE Gel PUMP SIZE 5 X 10 PIT CAPACITY 100 BBls

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Drilling Rate Bit Data	Depth	Cuttings Lithology	Combustible Gas	Descriptions
100 50	2100			Altered Basalt and Basaltic Tuff; as above, also some volcanic ash, some med gry, soft tuffaceous shale. Mud Wt 9.4# Vis 45
	2200			Sandstone; med-lt gry, v. fn feldspathic, silty, no fluorescence. Siltstone; med gry, fn sandy firm-soft. Sandstone; med gry, fn gr, quartz and feldspar grains, subround. Sand; loose grains of felds- par and quartz, fn-med gr Shale; dull black, firm, some calc. streaks, interbeds of shale and siltstone. Sand; loose grains as above. Shale; as above, micro-mica, some glauconite. Mud Wt 9.3# Vis 48
	2500			Sandstone; loose grains, fn- med gr., quartz and felds- par, some coal. No fluor- escence, some coal, some calc. streaks, interbeds of shale and siltstone. Sandstone; lt gry, fn, silty angl. grains of feldspar

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DEPTH 2550' TO 2752' TO
 HOLE SIZE 6 3/4" CASING 8 5/8" @ 350'

MUD TYPE Gel PUMP SIZE 5 X 10 PIT CAPACITY 100 BBls

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Drilling Rate Bit Data	Depth	Cuttings Lithology	Combustible Gas	Descriptions
100 50	2600			Sandstone; whitish gray, fn - med gr, silty, angular grains of feldspar and quartz. Fair amount of coal frags, calcareous matrix. Some dull gold fluorescence, some very faint pale blue fluorescence. Shale; dull black, firm, with occas. shell frags. Shale; as above, faint pale blue fluorescence, rare frag glauconite. Mud Wt 9.4# Vis 48
	2700			Shale; dull black and med. gray, v. firm, argillac. Some coal frags.
	2752'			Mud Wt 9.4# Vis 48