

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
702 Woodlark Building, Portland 5, Oregon

RECEIVED
MAR 10 1952

STATE DEPT. OF GEOLOGY
Log and Core Record of Oil or Gas Well & MINERAL INDS.

(Submit in duplicate)

To comply with Chapter 365 O.L. 1949.

Operator OIL DEVELOPERS, INC. Field Coles Valley
UNION OIL CO. OF CALIFORNIA
Well No. Liles No. 1, Sec. 27, T. 25 S, R. 7 W M.B. & M.

FORMATIONS PENETRATED BY WELL

| Depth to | | Thickness | Drilled or cored | Recovery | Description |
|------------------|---------------------|-----------|------------------|----------|--|
| Top of formation | Bottom of formation | | | | |
| 0 | 198 | 198' | Drilled | | |
| 198 | 524 | 326' | Drilled | | |
| 524 | 972 | 448' | Drilled | | |
| 972 | 989 | 17' | Cored | 17' | Dark gray shale with a few thin streaks of siltstone. Shale is moderately cemented with calcareous material. Equigranular contains mica. Dip equals 30° (+ 4° hole drift) <u>HIGHLY</u> fractured and slickensided in random manner except fracture planes tend to be steep. |
| 989 | 1520 | 531' | Drilled | | |
| 1520 | 1550 | 30' | Cored | 30' | Dark gray shale with a few thin streaks of siltstone. Shale is moderately well cemented with calcareous cement. Equigranular has some thin lines through the shale resembling worm borings. Contains mica. This core is only slightly fractured and slickensided. Dip ranges from 26° to 35°. Average 30°. No cut or odor to the siltstones. |
| 1550 | 2317 | 767' | Drilled | | |
| 2317 | 2334 | 17' | Cored | 1' | Recovered approx. 1' badly broken formation. Composed chiefly of Dark gray shale with streaks of siltstone. Moderately cemented. No reliable dips, but some pieces show very steep dips. |
| 2334 | 2382 | 48' | Drilled | | |
| 2382 | 2414 | 32' | Cored | 30' | Shale with streaks of siltstone. Shale is equigranular dark gray, moderately cemented. Siltstone is med. gray, equigranular, moderately well cemented. Streaked with dark layers containing dark minerals. Dip - 72° average. No cut or odor. |
| 2414 | 2477 | 63' | Drilled | | |
| 2477 | 2900 | 423' | Drilled | | |
| 2900 | 2915 | 15' | Cored | 2-1/2' | Shale with a streak of siltstone. Top 2' is dark gray shale bottom 6" is very well cemented siltstone with a seam of calcite. Core is fractured in a couple places parallel to the bedding and slickensided and the cracks filled with calcite. Dip - 22°. The siltstone has one 1/4" calcite seam on top and one on bottom. |

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| Top of formation | Bottom of formation | | | | |
| 2915 | 3391 | 476' | Drilled | | |
| 3391 | 3414 | 23' | Cored | 10' | Gray shale with thin streaks of siltstone and two 8" beds of coarse grained well cemented sandstone. Shale is fractured and slickensided, equigranular moderately cemented. Siltstone is streaked. Dips average 6° to 10° (range from flat to 20°) Sands are poorly sorted contain some greenish minerals. Contains some large particles of shale. Sands have no odor but have faint oil cuts with chloroform. |
| 3414 | 3721 | 307' | Drilled | | |
| 3721 | 3727 | 6' | Cored | 6' | Shale with a couple thin streaks of siltstone about 1" thick. Shale is equigranular, moderately cemented. Siltstone is streaked with dark shale but reasonable well sorted. Average dip - 24°; shale breaks easily but apparently not slickensided badly. |
| 3727 | 4477 | 750' | Drilled | | |
| 4477 | 4492 | 15' | Cored | 13' | Top 3' is shale - dark gray, equigranular, moderately well cemented. Fractured and slickensided. Contains much mineralized "sea weed" material. Has some thin silty streaks. Then below the shale is 6" of siltstone with thin laminations of shale well cemented. Then 2' of shale as above. Then 3' of fine grained silty sandstone, poorly sorted particles average 0.4 mm in diameter. Sandstone is composed chiefly of basalt particles, quartz and some weathered feldspars. Sandstone is well cemented. Has many laminations of shale (slickensided). Has faint cut with carbon tet. No odor. Then 4-1/2' shale with streaks of siltstone, slickensided. Average Dip for core is 20°. |
| 4492 | 4945 | 453' | Drilled | | |

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|---------------------|------------------------|-------------|---------------------|----------|--|
| Top of formation | Bottom of formation | | | | |
| 4945 | 4969 | 24' | Cored | 2' | A hard piece of siltstone was wedged in core head apparently preventing more formation from entering core barrel. Pieces of formation in barrel were practically all dark gray shale with a few chips of siltstone. |
| 4969 5452 | 5452 5470 | 483' 18' | Drilled Cored | 6' | Dark gray shale, moderately poorly cemented. Has two 6" streaks of siltstone. Core is very badly fractured and slickensided. No reliable dips because of fracturing. Dip apparently 60°. Evidently core is from a faulted or disturbed zone. |
| 5470 6018 | 6018 6032 | 548' 14' | Drilled Cored | 14' | Core was all shale with only a few laminations of siltstone. Shale is well cemented and sorted. Contains markings resembling seaweed or small worm borings. Practically no slickensides. Dips average 50°. |
| 6032 6383 | 6383 6401 | 351' 18' | Drilled Cored | 7' | Fractured shale with streaks of siltstone. Top 6" of core is hard laminated siltstone, then below this is 1' of fractured and slickensided dark gray shale, then 6" of very hard, fine grained gray sandstone, then 4' of fractured and slickensided dark gray shale, moderately well cemented. Has some calcite seams or veinlets. Bottom 1' of core is hard siltstone. Dip is 40°. |
| 6401 6666 | 6666 6688 | 265' 22' | Drilled Cored | 18' | Dark gray shale with thin streaks and laminations of siltstone. Shale is moderately well cemented. Shale has many markings resembling seaweed impressions. Siltstone is well cemented and composes about 20% of core. Core has a few slickensides. Average dip is 18°. |

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| 6688 | 6709 | 21' | Cored | 5' | Dark gray shale with thin streaks and laminations of siltstone. Shale is moderately well cemented and has a few "seaweed" markings. Siltstone comprises about 30% of core and is well cemented. No slickensides. Average dip is 17°. |
| 6709 6986 | 6986 6994 | 277' 8' | Drilled Cored | 4' | Top 2' was broken shale and siltstone, probably not representative of cored interval. Bottom 2' was dark gray shale, very badly fractured and slickensided to point of being friable. No dips. |
| 6994 | 6999 | 5' | Cored | 2' | All dark gray shale very badly fractured and slickensided. No dips. |