**Dwyer**

**Effective date of information:** 1-1-61

**Producing formation:** Madison-Mississippian

**Location:** T 32 N, R 59 E, Sheridan County, Mont.

**Discovery well**

- **Completion date:** January 1960
- **Location:** CSESE sec 20, T 32 N, R 59 E
- **Producing interval (depths):** 8,011-8,012 feet
- **Surface elevation (MSL):** +2,082 DF
- **Total depth:** 12,033 feet
- **Deepest formation penetrated:** Red River-Ordovician
- **Initial production:**
  - Barrels of oil per day: 51
  - Barrels of water per day: 49
  - Pump

**General field information:**

- **Number of producing wells:** 4
- **Pumping:** NR
- **Flowing:** NR
- **Current spacing pattern:** acres 160
- **Areal extent:** do 640
- **Average surface elevation (MSL):** feet +2,000
- **Datum (MSL):** NR

**Reservoir data:**

- **Average top of producing interval (MSL):** feet -5,750
- **Average bottom of producing interval (MSL):** do -5,850
- **Average effective thickness:** do 30
- **Closure:** do 200+
- **Type of trap:** Reef-stratigraphic
- **Type of drive mechanism:** Water
- **Average porosity:** percent 12
- **Average permeability:** millidarcys 5
- **Average water saturation:** percent 55
- **Average reservoir temperature:** °F 193
- **Reservoir pressure at datum:**
  - Initial: psig 3,750
  - Current: NR
- **Oil column height:** feet 200
- **Operating gas-oil ratio:**
  - Initial: scf/bbl 360
  - Current: scf/bbl 403
- **Formation volume factor:** 1.3
- **Recovery factor:** percent 12 to 30
- **Average residual oil saturation:** do 50

**Oil characteristics:**

- **Gravity:** °API 33
- **Saturation pressure:** NR
- **Pour point:** °F 15
- **Color:** Black

**Gas characteristics:**

- **Gravity:** 0.94
- **Hydrogen sulfide content:** None
- **Liquid content:** gal/Mcf 2 to 5

**Completion data:**

- **Casing size:** inch 4 ½ and 5 ½
- **Tubing size:** do 2 ½ and 2 ¾
- **Liner:** No
- **Packer:** No
- **Open hole:** No
- **Set through:** Yes
- **Acid:** Yes
- **Fracture:** Yes

**Cumulative oil production to 1-1-61:** bbl 91,890

Oilfields in the Williston Basin in Montana, North Dakota, and South Dakota (1966)

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