

Form 6-54

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1069 State Office Building Portland 1, Oregon

HISTORY OF OIL OR GAS WELL

(Submit in duplicate)

In compliance with rules and regulations adopted pursuant to ORS 520.095 (Chapter 667 OL 1953)

Operator ORE-IDA FOODS, INC.

Field Malheur County

Well No. Ore-Ida No. 1

, Sec. 3

, T. 18S

R. 47E

W.B. & M.

Signed


W. N. Hathaway

Date January 10, 1980

Title Petroleum Engineer

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

1979

8-15

Moved in R. B. Montgomery Drilling Company, Rig No. 7. Rigged up.

8-19

Spudded in at 9:00 AM with 17½" bit. Installed EnergyLog mud logging service @ 54'.

Depth 230'. Survey: BE @ 220'.

Cracked swivel sub.

8-20

Repaired swivel.

Depth 356'.

8-21

Depth 925'. Survey: ¼" @ 480'. 3/4" @ 925'.

13-3/8" casing @ 925'. Ran 19 joints of 13-3/8" OD, 54½#, K-55, buttre R3, new, smls. USS casing including guide shoe, insert flexiflow fill at 880', 3 centralizers. Cemented shoe @ 925' with 395 sacks Class G cement premixed with 395 cf. expanded perlite, 130 sacks silica flour 8% gel. Had good cement returns.

Landed 13-3/8" casing. Tested weld with 1500 psig.

8-23

Installed 12" Series 900 Shaffer dual hydraulic control gate and Hydril GK. Tested each preventer, casing, kelly cock, kill and blow down lines with 1200 psig. Test witnessed and approved by W. N. Hathaway.

Drilled out firm cement 860'-925'. Ran 2 welded wing drilltols.

8-23

Drilled 12¼" hole to 2049'. Mud 71 pcf. Survey: BE @ 1807'.

8-24

Depth 2866'. Mud 71 pcf. Survey: 1:15 @ 2049'. 1:45 @ 2584'.

8-25

Depth 3333'. Mud 68 pcf. 1:45 @ 3131'.

8-26

Depth 3802'. Mud 74 pcf. Survey: 0:15 @ 3652'.

8-27

Depth 4088'. Mud 74 pcf. Broke drawworks main drive shaft. Welded shaft and pulled carefully to 1539' where weld broke. Circulated.

9-01

Repaired drawworks @ 9:00 AM. Pulled bit. Reamed from 1780' to 4088'.

9-02

Reamed. Drilled 12¼" hole to 4160'. Mud 76 pcf. Ran drilling jars.

9-03

Depth 4706'. Mud 76 pcf.

9-04

Depth 4981'. Mud 80 pcf. Survey: 1:30 @ 4722'.

9-05

Depth 5201'. Mud 79 pcf. Survey: 1:30 @ 5151'.

9-06

Depth 5264'. Mud 79 pcf.

9-07

Depth 5362'. Mud 79 pcf.

9-08

Depth 5608'. Mud 81 pcf.

9-09

Depth 5777'. Mud 81 pcf.

9-10

Depth 5953'. Mud 80 pcf. Survey: 1:30 @ 5834'. Ran shock sub.

9-11

Depth 6215'. Mud 80 pcf.

9-12

Depth 6288'. Mud 82 pcf. Survey: 1:00 @ 6261'.

9-13

Depth 6449'. Mud 83 pcf.

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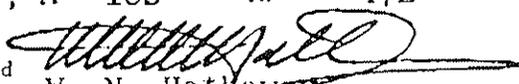
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Date

1979

9-14 Depth 6548'. Mud 81 pcf.
9-15 Depth 6681'. Mud 82 pcf.
9-16 Depth 6906'. Mud 82 pcf.
9-17 Depth 7156'. Mud 82 pcf.
9-18 Ran Welex DIG, Sonic, Density, Neutron, FracFinder and temperature logs.
9-20 Ran 12 $\frac{1}{4}$ " bit. Reamed from 7068'.
9-21 Depth 7230'. Mud 82 pcf. While drilling @ 7169' with 88 pcf. mud, lost circulation. Reduced mud weight and resumed drilling.
9-22 Depth 7320'. Mud 83 pcf. Survey: 0:30 @ 7320'.
9-23 Depth 7445'. Mud 83 pcf.
9-24 Depth 7565'. Mud 83 pcf.
9-25 Depth 7660'. Mud 82 pcf. Survey: 0:45 @ 7660'.
9-26 Depth 7722'. Mud 83 pcf.
9-27 Depth 7873'. Mud 82 pcf.
9-28 Depth 7960'. Mud 82 pcf. Drill pipe twisted off @ 7506', in first single above drill collars.
9-29 Ran fishing tools, Jarred fish loose.
9-30 Recovered fish. Conditioned hole for logs.
10-01 Ran Welex DIG, Sonic, Density, Neutron, FracFinder and temperature logs.
10-02 Ran bit. Circulated to cool hole for logs.
10-03 Depth 7998'. Mud 82 pcf.
10-04 Depth 8062'. Mud 83 pcf.
10-05 Depth 8188'. Mud 84 pcf.
10-06 Waited on and ran core barrel. Rock cutter head would not cut.
10-07 Ran diamond core head.
10-08 Cut 6 $\frac{1}{2}$ " core 8188'-8216'. Cut 28' and recovered 26' basalt.
10-11 9-5/8" casing @ 8183'. Ran 9-5/8" OD casing with DV collar @ 4045' and float collar and float shoe on shoe joint. Placed centralizers @ 4005', 4085' and 8 centralizers 7850'-8163'. Cemented shoe @ 8183' with 2000 cf. slurry volume Class G cement premixed with 1:1 expanded perlite, 2% gel, 1.2% R-11, 30% silica flour (Bottom 1000 cf. was 40% silica flour). Tested casing 2500 psig. Opened DV collar @ 4045'. Circulated out water ahead of cement. Cemented through DV collar with 3000 cf. slurry volume Class G cement premixed with 1:1 expanded perlite, 2% gel, 30% silica flour, 0.8% R-11. Closed DV with 2200 psi. Surface returns of 25 cf. of 100 cf. water pumped ahead of cement. Had full returns of flow line, both cement jobs.

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1979

9-5/8" OD casing detail

| | | |
|-------------|--------------------------------|----------|
| 1 jt. 43½# | ERW, buttress, N-80 | 45.58' |
| 74 jt. 40 # | smls buttress, K-55 | 2967.68 |
| 24 jt. 40 # | smls buttress, N-80 | 1036.59 |
| | Halliburton DV collar | 3.67 |
| 21 jt. 40 # | smls buttress, N-80 | 900.27 |
| 18 jt. 43½# | ERW buttress (bottom jt. LT&C) | 770.82 |
| 58 jt. 47 # | smls, LT&C, 8RT, N-80 | 2419.91 |
| | Halliburton float collar | 1.95 |
| 1 jt. 47 # | smls, LT&C, 8RT, N-80 | 39.75 |
| | Halliburton float shoe | 1.62 |
| | On hook | 8187.84' |
| | Above KB | 5.00 |
| | Landed at | 8182.84' |

- 10-12 Installed WDM geothermal expansion spool. Tested to 2000 psig. Re-installed blowout preventers. Tested each preventer, casing, kelly cock, kill and blow down lines with 2000 psig. Witnessed and approved by W. N. Hathaway.
- 10-13 Cleaned pits and filled with fresh water!!! Ran bit. Drilled 8½" hole to 8320'. Mud: water!!!
- 10-14 Depth 8400'. On trip @ 8400' had to ream from 8321'. Could not get below 8345'. Stuck and freed drill pipe twice. Pulled to 8100'.
- 10-15 "Mudded up" to 70 pcf. Reamed from 8273'. Stuck drill pipe for 3½ hours @ 8304'. Weighted mud to 83 pcf. and pipe came free.
- 10-17 Reamed to 8400'.
- 10-18 Repair rotary clutch.
- 10-19 Drilled 8½" hole to 8470'. Mud 83 pcf.
- 10-20 Depth 8541'. Mud 83 pcf.
- 10-21 Depth 8627'. Mud 85 pcf.
- 10-22 Depth 8757'. Mud 85 pcf.
- 10-23 Depth 8858'. Mud 84 pcf.
- 10-24 Depth 8956'. Mud 85 pcf.
- 10-25 Depth 9068'. Mud 85 pcf. Survey: 0:45 @ 9023'.
- 10-26 Depth 9176'. Mud 84 pcf.
- 10-27 Depth 9280'. Mud 84 pcf.

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11-24 Cogco shot 4 - 4" SSB jets per foot 5980'-6000', 6580'-6640', 6955'-7015'
(Cont) 7060'-7140', 7770'-7790', 7905'-7925' & 8320'-8340'.

Ran temperature survey.
11-25 Ran drill pipe to 8350'. Blew well with nitrogen down drill pipe.
Ran temperature survey. Pulled out of rope socket leaving temperature and pressure recorder in hole. Ran pressure survey.

11-26 Cogco shot 4 - 4" SSB jets per foot 6975'-7015', 7060'-7140',
7770'-7790' & 7905'-7925'.

11-27 Ran drill pipe to 7950'. Blew well with nitrogen down drill pipe.
Ran pressure survey to 7900'. Fluid rose from 6855' to 6091' in 3 hours
rate of influx = 13 gallons per minute. Ran drill pipe to 9919'.
Released rig to Contractor @ 12:00 Noon for rig out and tear out.

All piano wire temperature and pressure runs attached.