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WELL REPORT

COLORADO OIL & GAS CONS. COMM.

CONOCO INC.
FEDERAL 21 #1

SW SW SECTION 21-TOWNSHIP 9 NORTH-RANGE 89 WEST
MOFFAT COUNTY, COLORADO

AFE NO. 12-20-1998: \$199,600

ELEVATIONS: 8,159' G.R.
8,169' K.B.

COMPANY GEOLOGIST: Michael Barrett

DRILLING CONTRACTOR: Kenai Drilling Company

MUD LOGGING COMPANY: Rocky Mountain Geo-Engineering Company

SPUD: November 8, 1979

CEASE DRILLING: November 20, 1979
Rig Released - December 1, 1979

CASING: 9 5/8-inch at 200'

DRILLSTEM TESTS: None

CORES: None

SAMPLES: Delivered to Amstrat, Denver, Colorado

LOGS: None

TOTAL DEPTH: 2,507' Driller

FORMATION AT T.D.: N/A

STATUS: Plugged and abandoned

GEOLOGICAL SUMMARY

The Conoco 21 #1 Federal was a test of Lewis sands of Late Cretaceous age which pinch out eastward and updip across the East Sand Wash Block. The well was located in the eastern untested portions of the block and was 1 1/2 miles east of Conoco's previous E. Sand Wash well (#1 E. Van Tassel) which was P&A'd on 8/9/79 after encountering gas shows in tight Lewis "A" and "B" sands. The 21 #1 Federal was junked and abandoned before penetrating the potential Lewis objective and thus did not condemn any portion of the E. Sand Wash Block; however, most of the leases in the wellsite area expire in 3/80 and a total of 9,653 acres (43%) of the 22,487 net acres block expire in 1980.

R. R. Standaert
Operations Supervisor - Geoscience

WELL HISTORY

- November 8, 1979 Spud at 11:00 a.m., drilled to 30 feet, shut down for pump repairs.
- November 9, 1979 Drilling rat hole, present depth 40'.
- November 10, 1979 Drilling at 72 feet (32'). Drilled rat and surface holes.
- November 11, 1979 Drilling at 129 feet (57'). Reamed 73 feet. Drilled to 103 feet. Cleaned out boulders above bit and reamed from 73-103 feet. Drilled and reamed ahead to 120 feet. Survey - 1/2 deg. at 103 feet.
- November 12, 1979 Mixing mud, present depth 151 feet. Drilled 22 feet. Reamed 30 feet from 70-100 feet. Mixed mud. Pulled out of hole for bit #2. Ran in hole, no fill. Drilled to 151 feet. Mud tanks got full of cuttings and rocks. Pulled out of hole. Mixing mud and cleaning mud tanks.
- November 13, 1979 Present depth 215 feet (64'). Picking up hole opener. Finished mixing mud. Drilled to 215 feet. Ran survey and conditioned hole. Pulled out hole. Attempted to run 9 5/8-inch casing, hit bridge at 150 feet. Laid down casing and repaired rig tongs. Survey - 1 1/4 deg at 215 feet.
- November 14, 1979 Present depth 215 feet. Opened hole to 13 3/4-inch at 210 feet, reamed 210'. Finished repairing tongs. Picked up 15-inch hole opener and opened hole to 70 feet.
- November 15, 1979 Present depth 215 feet. Nippling up BOPs. Reamed to 215 feet, conditioned hole, made short trip, pulled out of hole. Ran 9 5/8-inch (5 joints, 36#, K-55 ST&C) to 200 feet. Cemented with 50 sacks Class G, mixed at 15 ppb, followed by 180 sacks Class G, plus 2% CaCl, plus 1/4#/sack Cello-flake, mixed at 15.9 ppg. Plug in place at 4:40 p.m. 11/14/79. Waited on cement, cut off casing and welded wellhead.
- November 16, 1979 Present depth 215 feet. Shut down, no crew. Ran bottom hole assembly to 105 feet, hit cement stringers and picked up Kelly.
- November 17, 1979 Present depth 373 feet (158'). Waiting on water, ran out of water due to truck problems.
- November 18, 1979 Drilling at 1,480 feet (1,107') in sand and shale. Survey - 3/4 deg. at 711 feet and 1 deg. at 783 feet.
- November 19, 1979 Present depth 2,034 feet (554'), ran survey and pulling out of hole. Survey 1/2 deg. at 1,466 feet.
- November 20, 1979 Present depth 2,507 feet, mixing pill and lost circulation material, in sand and shale (473'). Reamed 30 feet, drilled to 2,034 feet, dropped survey tool. Pulled out of hole, ran in hole with bit #7, hit bridge at 380 feet. Reamed 30 feet. Finished running in hole to 1,964 feet, washed 70 feet to bottom, drilled to 2,253 feet. Repaired pump discharge valve and drilled to 2,507 feet. Repaired discharge valve, could not regain circulation. Stuck in hole. Survey - 3/4 deg. at 2,034 feet.
- November 21, 1979 Present depth 2,507 feet, working stuck pipe and waiting free-point. Finished mixing gel and lost circulation material. Pumped 100 barrels mud with no returns. Built mud volume and lost circulation material. Pumped 50 barrels mud and regained full returns. Worked stuck pipe while waiting on wireline for free-point.

- November 22, 1979 Present depth 2,507 feet, working stuck pipe. Rigged up wireline, ran free-point, free at 2,025 feet, partially free at 2,056 feet, 100% stuck at 2,091 feet. Mixed mud, diesel and mill-free and spotted same.
- November 23, 1979 Present depth 2,507 feet, picking up fishing tools. Worked stuck pipe. Rigged up wireline, ran free-point, found pipe stuck at 500 feet. Rigged down wireline. Hooked up Kelly hose and circulated and worked pipe free at 500 feet. Rigged up wireline, ran free-point. Found string free at 1,949 feet. Ran string shot and backed off at 1,928 feet on second attempt. Pulled out of hole.
- November 24, 1979 Present depth 2,507 feet, jarring on fish. Picked up fishing tools, ran in hole. Circulated and screwed into fish. Jarred on fish for 30 minutes and jars quit. Circulated through fish. Ran free-point and spotted 15 barrels of mill-free around fish. Jars started working again.
- November 25, 1979 Present depth 2,507 feet, pulling out of hole with fishing string. Jarred with no success. Circulated, rigged up and ran free-point, 80% free at 1,950 feet, ran 3 shots; first did not go off; second shot okay but no back-off; third larger (400 grams charge), backed off at 1,928 feet. Recovered all fishing tools and 1 joint drillpipe.
- November 26, 1979 Present depth 2,507 feet, circulating and washing down with wash pipe. Waited on wash pipe. Picked up wash pipe and tools, ran in hole to 291 feet, washed and reamed to 590 feet.
- November 27, 1979 Present depth 2,507 feet, washing and reaming with bit. Reamed and washed with wash pipe to 711 feet. Pulled out hole. Picked up bit #8 to 730 feet, washed and reamed 1,556 feet.
- November 28, 1979 Present depth 2,507 feet, continued washing and reaming to 1,925 feet. Circulated and conditioned hole. Short trip--20 stands. Pulled 30,000# above weight of string and ran to bottom. Circulated. Short trip, circulated and chaining out of hole.
- November 29, 1979 Present depth 2,507 feet, circulating to lay down pipe. Pulled out of hole after washing and conditioning to 1,925 feet. Ran in hole with wash pipe (6 joints), hit bridge at 279 feet. Pulled out of hole, stood back 2 joints wash pipe. Ran in hole to bridge at 290 feet, pulled out of hole. Stood back wash pipe and picked up 8 3/4-inch bit. Ran in hole, washed and reamed 511 feet to 711 feet.
- November 30, 1979 Present depth 2,507 feet, opening hole to 8 3/4-inch. Circulated at 711 feet, laid down drillpipe. Repaired lay-down line and finished laying down drillpipe. Picked up bottom hole assembly. Unloaded casing. Rigged up steam, blowing out lines. Reamed to 870 feet. Worked on freezing fuel problems and reamed to 1,173 feet. Temperature -20°.
- December 1, 1979 Present depth 2,507 feet, waiting on cement truck. Reamed to 1,248 feet. Repaired air line. Reamed to 1,384 feet. Pulled out of hole, laid down bottom hole assembly and tools. Loaded out equipment. Ran in hole open-ended, circulated while waiting to pull cement truck to location. Cement truck failed to operate. At present waiting on cement truck.
- December 2, 1979 Present depth 2,507 feet. Waited on second cement truck. Rigged up cement truck. Spotted cement plugs and laid down drillpipe. #1: 1,300-1,000' - 55 sacks Class G with 4% gel; #2: 300-100' - 45 sacks Class G with 4% gel, 15 sacks Class G Neat; #3: 33-10' - 10 sacks Class G neat. Cleaned pits. Rig released at 6:00 p.m. 12/1/79.

ROUTING SLIP

Date Permit Received

DVR	
FJP	✓
IIIIM	✓
JAM	✓
JJD	Plotter ✓
RLS	
CGM	✓

9/17/79

PERMIT NO. 79-982

BOND Blanket ✓

Date of Check 9/12/79

Check # 37546 Amt. \$ 75.00 ✓

Name of Company Conoco Inc.

Maker of Check Same

Bank Check Issued On Security Bank & Trust Co.
Ponca City, Oklahoma

Refund \$ Requested By

Date Refund Request Sent to Accounting

Remarks

File in perm file



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DEC 19 1979

COLO. OIL & GAS CONS. COMM.

Subsequent Report of Plugging

Difficulty was experienced in drilling as a result of the presence of boulders down hole, drill pipe became stuck and fishing was unsuccessful. Additional efforts to complete this well were determined to be uneconomical. The well was plugged as follows:

- Plug #1 - 1300'-1100' - 55 sx. Class "G" w/4% Gel
- Plug #2 - 300'-100' - 45 sx. Class "G" w/4% Gel
- Plug #3 - 30'-10' - 10 sx. Class "G" neat

Heavy mud placed between all plugs and regulation dry hole marker installed. No future work on this well is anticipated.