

Plug and Abandon Report

Operator: Benson & Montin
Well Name and Number: Gallegos Canyon Unit #2
Date Drilled: September 1951
Total Depth: 1448'

07-12-90 Moved Arroyo Service Company equipment from Llaves yard to L & M Venture yard in Farmington, New Mexico to plug Gallegos Canyon Unit #2 well.

Chip Suskey and Virgil L. Stoabs visited location and discussed moving in rig and equipment to plug well with Mr. Earl Hickam, surface land owner. Made arrangements with Mr. Hickam to level location and dig reserve pit using his backhoe.

07-12-90
to

07-23-90 Waited on location dirtwork to be completed.

07-24-90 Moved rig and equipment including dog house, butane tank, tongs, and mixing pit from L & M Venture yard to location.

RU rig and hauled 2 3/8" EUE tubing to location to use as plugging string.

07-25-90 Hauled power swivel bit sub and bit to location.

7:30 AM CP 140 psig TP 160 psig

Vented wellhead pressure to atmosphere--RU tubing tongs-- ND wellhead.

POH with 1" plastic tubing(\pm 400').

Removed 8 5/8" x 2 3/8" swedge from 8 5/8" collar looking up. NU wellhead companion flange and stripper head using 8 5/8" x 5 1/2" swedge purchased for clean out wellhead hookup.

Ran in hole with 4 1/2" bit, bit sub and 28 joints 2 3/8" EUE tubing. Top of fill at 844'.

Mixed mud, RU swivel, established circulation. Started clean out operation. Cleaned out from 844' to 859'.

New Mexico Oil Conservation Division field engineer advised drilling crew that a blow out preventor was required.

POH with 8 joints tubing (\pm 250') ND stripper head NU BOP SWIN. SDON.

Truck #154 hauled 75 barrels of water to location.
Truck #156 hauled 30 sacks of gel to location.

07-26-90 Truck #153 hauled anchors and material to build floor from Llaves yard to location.

Installed dead men anchors .

RIH with 8 joints of 2 3/8" EUE tubing. Tagged fill at 851'. RU swivel and established circulation.

07-26-90 (continued)

Commenced to clean out and cleaned out to 859'.
Circulated at 859' with continuous shale cavings to surface. Unable to make connection with volume of shale circulating to surface.

Circulated until 3:30 PM. Shut down pump. POH with 12 joints of 2 3/8" EUE tubing. Shut well in. SDON.

07-27-90 CP 0 psig TP 0 psig

Mixed 14 sacks bentonite gel with mud viscosity 43 seconds/quart viscosity.

RIH with 10 joints of 2 3/8" EUE tubing. Tag fill at 800' (59' of fill up during overnight shut down).

Commenced circulating and cleaning out.

Pump rate: 4 BPM

Viscosity mud: 43

POH 30' and shut down pump for 5 minutes. RIH found 5' fill.

Plugged bit RU and reverse circulated to unplug.

Resumed circulating hole to clean out and make connection. Found bridge from 800' to 810', then free hole for 30', then shale from 840' to 859'.

Circulated hole and worked pipe trying to clean up hole. Mud viscosity 35, pump rate 4 BPM. Volume of shale cavings in returns remained too heavy to make connection.

Shut down pump. POH with 28 joints of 2 3/8" EUE tubing bit sub and 4 1/2" bit. SWIN. Shut down until Monday.

NOTE: Denny Foust, Field Engineer for New Mexico Oil Conservation Division, and Virgil L. Stoabs, Benson-Montin-Greer, met at location and after observing problem decided to shut down clean out efforts until Monday. During weekend Virgil L. Stoabs to arrange for steel mud pit and better mud mixing equipment to be moved to location and resume clean out efforts with higher viscosity mud.

07-28-90
to

07-29-90 Shut down for weekend.

07-30-90 Rearranged equipment on location to make room for rental steel mud tank--moved butane tank and mixing tank.

Truck #156 hauled 150 barrel rental mud mixing tank (24' x 7' x 5') from Homco International Inc. yard to location. RU rental mud tank and mixed 17 sacks gel.

RIH 4 1/2" bit, bit sub and 28 joints 2 3/8" EUE tubing. Tagged fill at 859'. RU swivel and established circulation.

Pump Rate: 45 BPM

Mud Viscosity: 52

07-30-90 (continued)

Circulated shale cavings to surface. Circulated hole and worked pipe. Mixed mud to increase viscosity to 55. Circulated larger (approximately 1/2" in diameter) shale particles to surface.

4:15 PM Shut down pump. POH with 10 joints of 2 3/8" EUE tubing. SWIN. SDON

07-31-90 Mixed mud to 50 viscosity. RIH with 10 joints of 2 3/8" EUE tubing.

Tagged fill at 859' (no fill overnight). RU swivel and established circulation. Circulated and cleaned hole.

9:30 AM Cleaned out to 886'. Circulated hole and worked pipe. Shale cavings and brownish-gray clay circulated to surface.

1:40 PM Made connection and cleaned out to 917'. Circulated hole. Pump packing leaking. POH 30'. SD pump and installed new packing.

3:15 PM Resumed circulating hole. Circulated bottoms up.

3:30 PM Made connection and cleaned out to 948'. Circulated hole and worked pipe until 6:00 PM.

6:00 PM POH with 12 joints 2 3/8" EUE tubing.

SWIN. SDON.

08-1-90 Mixed mud to 60 viscosity. RIH with 12 joints of 2 3/8" EUE tubing

8:00 AM Tagged fill at 933' (15' fill overnight). RU swivel and established circulation.

Pump rate: 43 BPM
Pump pressure: 250 psig
Mud viscosity: 53

Circulated cavings and worked pipe. Hole not in condition to make connection.

10:15 AM Made connection and resumed cleaning out hole.

10:55 AM Cleaned out to 979'. Circulated large shale cavings and some coal.

2:15 PM POH 30'. Mixed gel and increased viscosity to 80.

3:25 PM Resumed circulating--RIH 7" fill. Cleaned out to 979'. Large shale cavings and some coal.

Still unable to clean hole to make a connection. Continued to circulate and work pipe, but quantity of circulated cavings did not decrease.

4:30 PM SD pumping. POH with 12 joints 2 7/8" EUE tubing. SWIN. SDON.

08-2-90 Pumped 75 barrels mud from steel tank into earthen pit. Cleaned up steel tank--RD tank. Truck #156 moved tank to Homco's yard.

POH with 20 joints 2 3/8" EUE tubing, bit sub and 4 1/2" bit.

Truck #158 moved 55 joints of 2 7/8" EUE tubing to the Aztec yard.

ND--BOP--RD floor and tongs. NU WH. SWIN.

RD pump. RD rig. Truck #141 and Truck #156 moved rig and butane tank to L & M yard

Truck #158 hauled mixing pit, BOP, cleaning unit, dog house and power swivel to Llaves yard. Truck #156 hauled mud pump to Llaves yard. Unit #141 moved power tongs to Llaves yard.

Moved Truck #154 to Llaves yard. SDON.

08-3-90 Unloaded equipment in Llaves yard and RU pump.

Truck #154 hauled 35 barrels of water from lower Gallegos water hole to Llaves yard and flushed mud out of pump and lines.

Cleaned mud off handling tools, BOP and tongs.

SD operation.