



Oil Conservation Division

COLL #001 Plug and Abandonment

660' FNL & 1980' FEL, Section 29, 25S, 37E

Lea County, NM / API 30-025-11832

9/6/24 - 9/29/24

Table of Contents

Executive Summary3

Original Plugging Procedure.....4

Modified Plugging Procedure6

Detailed Daily Work Summary.....8

Wellbore Schematics14

Images16

Glossary23

Executive Summary

On September 5, 2024, the OCD received a phone call from a property owner in Jal New Mexico indicating that the Coll #001 well was leaking in his back yard. On September 6, 2024, OCD Inspection Supervisor arrived on location and detected H2S gas approximately at 100ppm. Through various OCD staff and supervisors OCD was able to divert one of the OCD's plugging rigs used for plugging orphan wells to be in route to the Coll #001. Drake Well Service ("Drake") rig #35 made it to location shortly after being contacted. While waiting on "one call" OCD and Drake traveled around the neighborhood informing the residents of the pending rig work and furnished them with contact information.

OCD P&A Engineer performed a history review of the well and drafted a plugging procedure while Drake Well Service employees underwent additional training/refresher courses on H2S and confined space work in order to work on the Coll #001. It was discovered the well was drilled in 1952 and plugged in 1953 with a total of 20 sacks of cement.

Drake and OCD encountered various technical issues while working on the well but as a team were able to overcome the challenges and gain well control. Once well control was obtained OCD and Drake properly plugged the well in twenty-four days with a total of 544 sacks of cement to ensure the well is properly isolated. The well was plugged and abandoned on September 29, 2024, for more detailed descriptions of events please see below.

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Original Plugging Procedure

OCD
Plugging Procedure
COLL # 1
API # 30-025-11832
660' FNL and 1980' FEL
Unit B, Sec 29, T25S, R37E
Lea, NM
GL: 3032'

Well Information

Surface Casing: 10 3/4" 32#, set @ 269', cement to surface
Production Casing: 7" 20# set @ 3127' TOC = Unknown (DV tool @ 1250')
PBTD: 3170'? May have OH from 3127' to 3170' Record shows TD at 3936'
Production Tubing: None.
Rod String and Pump: None.

This well was drilled January 1952. Records indicate that the well was plugged August 31, 1953, as follows:

A 10 sacks plug was placed at 1900' and another 10 sacks plug was placed at the surface of the well and a 1/2" steel plate welded on the surface casing. A 6' x 4" nipple protruding upward welded on the plate. (The P&A NOI indicated that the plate was to have a vent hole in it.) The NOI also indicated that the 7" casing was to be cut, however the subsequent report does not indicate whether it was cut off.

The well is currently venting H2S gas out of the open-topped 4" marker.

OCD is planning to mitigate the H2S and properly plug this well.

Drake Well Services H2S monitoring, and safety measures are to be followed throughout all of the work on this well.

- I. **H2S mitigation and control in preparation for MIRU plugging rig. (Suggested general plan.)**
 1. Assess the location, measure H2S emission.
 2. Establish communication with landowner.
 3. Notify City of Jal of the planned work.
 4. Evaluate the area for required equipment access and placement.
 - a. Roads
 - b. Fences
 - c. Building adjacent to well
 - d. Power lines.
 - e. Rig requirements, base beam, etc.
 5. MIRU generator with fan to dissipate the H2S
 6. Set up H2S monitoring stations as per Drake safety protocol.
 7. Generate Hot Work Permit Procedure.
 8. MIRU N2 equipment to blanket area around WH.
 9. Excavate around WH to expose the marker plate and surface casing.
 10. Using band saw type equipment cut off the surface casing.

11. Determine if 7" casing is still in the well or whether it was cut off during the plugging.
12. Tag top plug.
13. Revise plugging procedure based on information learned after marker removal.

II. MIRU plugging rig and equipment.

1. MIRU plugging rig and required equipment.
2. Install WH and BOP as determined by I. above.
3. Set up to monitor 10 $\frac{3}{4}$ " surface casing.

III. Plug well.

1. MU and drill out upper cement plug. (7" 20# capacity = 0.2273 cu ft/ft, 10 $\frac{3}{4}$ " capacity = 0.5665 cu ft/ft) Records indicate that 10 sacks cement of unknown yield was placed at the surface.
2. TIH, tag plug at 1900'.
3. PT casing, monitor surface casing.
4. Drill out plug at 1900'.
5. Tag PBTD, confirm 7" casing depth and if there is OH below the 7" casing.
6. If OH is encountered, place a blind cement plug to cover OH and bottom of 7" casing.
7. PT casing.
8. Run CBL.
9. Place cement as determined by CBL.
10. Plug well to meet OCD requirements. Formation tops of record:
 - a. Anhy 970'
 - b. T Salt 1110'
 - c. B Salt 2340'
 - d. Yates 2540'
 - e. 7 Rivers 2650'
 - f. Queen 2950'
11. Set proper P&A marker.
12. RDMO location.

This procedure will be modified as well conditions dictate.

9-06-2024

Modified Plugging Procedure

OCD
Plugging Procedure
COLL # 1
API # 30-025-11832
660' FNL and 1980' FEL
Unit B, Sec 29, T25S, R37E Lea, NM
GL: 3032'
REVISED 9-23-24

Well Information

Surface Casing:	10 3/4" 32#, set @ 269', cement to surface
Production Casing:	7" 20# set @ 3127' TOC = Unknown (DV tool @ 1250')
PBTD:	3170'? May have OH from 3127' to 3170' Record shows TD at <u>3936'</u>
Production Tubing:	None.
Rod String and Pump:	None.

This well was drilled January 1952. Records indicate that the well was plugged August 31, 1953, as follows:

A 10 sacks plug was placed at 1900' and another 10 sacks plug was placed at the surface of the well and a 1/2" steel plate welded on the surface casing. A 6' x 4" nipple protruding upward welded on the plate. (The P&A NOI indicated that the plate was to have a vent hole in it.) The NOI also indicated that the 7" casing was to be cut, however the subsequent report does not indicate whether it was cut off.

The well is currently venting H2S gas out of the open-topped 4" marker.

OCD is planning to mitigate the H2S and properly plug this well.

Drake Well Services H2S monitoring, and safety measures are to be followed throughout all of the work on this well.

IV. H2S mitigation and control in preparation for MIRU plugging rig. (Suggested general plan.)

14. Assess the location, measure H2S emission.
15. Establish communication with landowner.
16. Notify City of Jal of the planned work.
17. Evaluate the area for required equipment access and placement.
 - a. Roads
 - b. Fences
 - c. Building adjacent to well
 - d. Power lines.
 - e. Rig requirements, base beam, etc.
18. MIRU generator with fan to dissipate the H2S
19. Set up H2S monitoring stations as per Drake safety protocol.
20. Generate Hot Work Permit Procedure.
21. MIRU N2 equipment to blanket area around WH.
22. Excavate around WH to expose the marker plate and surface casing.

23. Using band saw type equipment cut off the surface casing.
24. Determine if 7" casing is still in the well or whether it was cut off during the plugging.
25. Tag top plug.
26. Revise plugging procedure based on information learned after marker removal.

V. MIRU plugging rig and equipment.

4. MIRU plugging rig and required equipment.
5. Install WH and BOP as determined by I. above.
6. Set up to monitor 10 3/4" surface casing.

VI. Plug well.

13. MU and drill out upper cement plug. (7" 20# capacity = 0.2273 cu ft/ft, 10 3/4" capacity = 0.5665 cu ft/ft) Records indicate that 10 sacks cement of unknown yield was placed at the surface.
14. TIH, tag plug at 1900'.
15. PT casing, monitor surface casing.
16. Drill out plug at 1900'.

Revised 9-23-24:

1. Tag PBTD, as previously determined at 3114'.
2. Plug 1: Spot a cement plug from 3114' to 2800'.
3. Pull up hole. WOC.
4. Tag top of Plug 1. Spot cement from TOC to 2300'. Pull up hole, WOC.
5. Tag Plug 2. PT casing. TOOH.
6. RIH, set CIBP @ +/- 2220'.
7. Perforate at +/- 2200'.
8. If possible, TIH with packer and establish injection into holes at 2200'.
9. Plug 3. Mix and pump a minimum of 25 sacks through holes and into 7" x 8 3/4" annulus. Leave a minimum of 100' cement inside casing. TOOH. WOC.
10. TIH, tag Plug 3. PT casing.
11. Plug 4. Spot a balanced plug from 1300' to 900'. WOC.
12. Tag Plug 4. PT casing.
13. Perforate at 550'.
14. Attempt to establish circulation out surface casing.
15. Mix and circulate cement from 550' out surface casing.
16. Plug well to meet OCD requirements. Formation tops of record:
 - a. Anhy 970'
 - b. T Salt 1110'
 - c. B Salt 2340'
 - d. Yates 2540'
 - e. 7 Rivers 2650'
 - f. Queen 2950'
17. Set proper P&A marker.
18. RDMO location.

This procedure will be modified as well conditions dictate.

9-23-2024

Detailed Daily Work Summary

- 9/6/24** OCD was notified that the COLL # 1 well within the city limits of Jal, NM had begun to vent H2S gas. The gas was coming out of the P&A marker. OCD representative was dispatched to situation. Upon arrival and meeting with the landowner the gas venting from the old P&A marker was tested and a reading 100 ppm H2S was noted. Drake Well Service had just finished a P&A and had a rig available. The rig and crew were mobilized to Jal.
- OCD P&A engineer began working on P&A procedure, SE NM OCD personnel organizing wellsite coverage and supervision. Drake worked on a comprehensive operations safety plan.
- 9/7/24** Drake moved rig # 35 to the Coll #001. Arrived on location held safety meeting. Completed spiral gas check for H2S and other gas. H2S on location. Removed fence and prepped location. Dug out cellar. RU P&A unit. Shut down for the day. Made arrangements for night dry watch once operations begin.
- 9/8/24** OCD and Drake traveled around the neighborhood informing the residents of the pending rig work and furnished contact information. The 4 gas monitor readings were 100 ppm H2S and 56 LEL. Drake tried to kill well with nitrogen but was unsuccessful. The decision was made to hot tap the exposed casing to gain access into the well casing.
- 9/9/24** Arrangements made for all crew and other personnel working near well to be trained and suited up for H2S work. Set up H2S monitoring around the well site and SCBA equipment from Legacy Safety. Drake crew dug out trench near WH to allow Wild Well room to rig up the hot tap the 10-3/4" casing. Hot tapped the 10 3/4" casing and installed a ball valve. The 4 Gas monitor readings were 135 ppm H2S and some LEL from the casing.
- 9/10/24** Checked 4-gas levels and well pressures (casing 20 psi). Dug cellar with backhoe. Cut off old P&A marker. Make up 6" hose to 4.5" casing marker. RU 2" line from cement pump to the new valve on the 10 3/4" casing. Held additional JSA with all personnel on location. Pumped 2.5 bbls of H2S scavenger (30 psi at 0.45 bbls/min). H2S started flowing out of 4.5" marker into pit. Shutdown operations. Secured well.
- 9/11/24** Checked 4-gas levels and well pressures (casing 23 psi). RU BOP. Plans made to install a temporary BOP on the 4 1/2" P&A marker to allow the well to be shut in. Installed flange and fully opened valve. Function test BOP. Installed a rental BOP upside down on 4.5" marker. Close 4.5" rams. RU a 2" line to blow down tank. RU a gauge to monitor well pressures. Monitor the well for the rest of the day. 23 psi. Secured (anchored) the BOP to 10-3/4" casing. All work around BOP was completed with H2S safety equipment.
- 9/12/24** Checked 4-gas levels and well pressures (casing 21 psi). Monitored well, 21 psi. Bled down well. Returns had H2S over 100 ppm. Shut in well. The well would build

pressure to 21 psi in 30 minutes. Secured well for the day. Rig crew members attended a 4-hour class for confined space authorization.

- 9/13/24** Checked 4-gas levels and well pressures (casing 21 psi). Monitored well. Bled down well. Returns had H2S over 100 ppm. Connected nitrogen to hot tap tool. Injected into the 10-3/4" casing. Monitored well. H2S readings still over 100 ppm. Discussions were had to explore a number of different options to install a WH and BOP on the 10-3/4" casing. Decision was made to use a slip-over adapter, with internal seals and slips that would slip over the 10 3/4" casing and be clamped onto the 10 3/4" casing. This would then be used to mount the BOPs so that the well could be accessed and controlled. Prior to installing the BOP, a plug would be set inside the 4 1/2" marker pipe right above the plate that was on top of the 10 3/4" casing, the 4 1/2" marker could then be cut off close to the plate and allowing the BOP to be installed onto the adapter.
- 9/14/24** Checked 4-gas levels and well pressures (casing 21 psi). Monitor well. Attempted to install a new wellhead. Noticed bottom seal will not cover the hole made by hot tap. Shut down operations for the day. Sent wellhead to the machine shop. Crew members stayed on location until night watch arrived.
- 9/15/24** Checked 4-gas levels and well pressures (casing 21 psi). Monitor well. Waiting for WH. Stay on location until night watch arrives.
- 9/16/24** Checked 4-gas levels and well pressures (casing 21 psi). Bled down well. Removed upside down rental BOP from 4.5" marker. Set a plug inside the 4 1/2" marker. Install new well head around 10-3/4" casing (sorelock 5K, test to 1000 psi for 30 minutes). Cut 4.5" marker level with wellhead. Install 10K BOP with blind shear rams and 2-3/8" pipe rams. All installation and NU work was completed with an H2S mask. Function test BOP. Backfill cellar with backhoe. Set base beam. Positioned rig. Shut in and secured well for the day.
- 9/17/24** Checked 4-gas levels and well pressures (casing 21 psi). RU floor and equipment. Had to modify the floor to fit over BOP stack. RU 2" lines from wellhead to flowback. Spot in 2-3/8" work string trailer. N/U crossover spool and Washington head. Spot and RU power swivel. Make up and torque Kelly valve and crossovers on swivel. Secured well for the day.
- 9/18/24** Checked 4-gas levels and well pressures (casing 21 psi). Cut a hole in the rig floor and welded on a collar. Made up BHA, 6-1/8" mill, conehead sub, and a cross over to 2-3/8" and power swivel. RU cementing services. Held additional JSA with all personnel on location. Open and bled down well. Monitored well, H2S 20 ppm, LEL 0. Established circulation with 0.5 bbl. Monitored well while circulating, H2S – 0 ppm. Milled 16 inches from 11am to 2 pm. R/D swivel for maintenance. Secured well for the day.
- 9/19/24** Checked 4-gas levels and well pressures (casing 10 psi). Worked on swivel. Moved cementing services and moved in rig pump. RU mud pump and pit. RU 2" lines and

hoses. Milled 4" and tagged 10-3/4" casing and plate. Milled and additional 1/2". Pulled out of hole and installed new mill. Secured well for the day.

- 9/20/24** Checked 4-gas levels and well pressures (casing 20 psi). Swapped 2" lines to reverse circulate. Milled on top of plate, milled plate out. Washed and reamed from 17' to 128'. Did not encounter the expected surface cement plug. Hung back swivel. RU tongs on floor. L/D 3 joints. Swapped concave mill for a 6-1/4" bit. P/U 11 joints. Established circulation at 384' with 10 bbls of fresh water. TIH to 608'. Circulated well with 11 bbls of fresh water. Well started flowing. Shut in well and monitored for 30 minutes, 21 psi. TIH to 1441' while circulating every 200' with 20 bbls of fresh water. Stop operations. Well started flowing and H2S alarms went off. 20 ppm on pit, 50 ppm on floor. Shut in and secured well. Shut in for an hour, pressure at 25 psi. Pumped 40 bbls with 2 gallons of H2S scavenger. Secured well for the day.
- 9/21/24** Checked 4-gas levels and well pressures (casing 25 psi, tubing 25 psi). Pumped 100 bbls of 10 ppg brine water into well. TIH from 1441' to 2592'. Established circulation with brine water. TIH and tagged at 3112'. Circulated well. The recorded cement plug at 1900' was not found, only a slight resistance to the BHA. While circulating noticed well was taking fluid. Stopped circulating. Well went on vacuum. TOOH with 97 joints. L/D bit and bit sub. TIH to 1573'. Shut in and secured well.
- 9/22/24** Checked 4-gas levels and well pressures (casing 25 psi, tubing 25 psi). Pumped 16 bbl of fresh water and established circulation. Shut in well and monitored pressure. After 5 minutes the well went on vacuum. Pumped 2 more bbl of fresh water and circulated. Shut in and secured well for the day.
- 9/23/24** Checked 4-gas levels and well pressures (all 0 psi). Pumped 16 bbls of fresh water to fill hole. TOOH with 49 joints. RU wireline services. RIH and ran CBL from 3100' to surface. R/D wireline services. Filled hole with 12 bbls of fresh water. TIH to 3106'. RU cementing services. Pumped plug #1 from 3106' to 2800'. R/D cementers. TOOH. WOC 4 hours. TIH and tagged TOC at 2801'. RU cementing services. Continued pumping plug #1 from 2801' to 2300'. L/D 15 joints and TOOH. WOC overnight. Secured well.
- 9/24/24** Checked 4-gas levels and well pressures (all 0 psi). P/U cement tag sub. TIH and tagged plug #1 at 2293'. RU cementing services. Attempted to pressure test casing but was unsuccessful. TOOH with tubing. P/U 7" CR. TIH and set CR at 2220'. L/D 7 joints. RU cementing services. Attempted to pressure test casing but was unsuccessful. TOOH. RU wireline services. RIH and perforated at 2200'. POOH. R/D wireline services. P/U 7" packer. RIH and set packer at 1982' with EOT at 2014'. RU cementing services. Attempted to inject through packer and into perforations but was unsuccessful. Attempted to test casing above packer to surface but was unsuccessful. Unset packer. TOOH. L/D packer. TIH with tubing to CR at 2200'. RU cementing services. Pumped plug #2 from 2220' to 2100'. TOOH. Shut in and secured well.

- 9/25/24** Checked 4-gas levels and well pressures (all 0 psi). P/U cement tag sub. TIH and tagged plug #2 at 2105'. L/D tubing to 1300'. Secured well and shut down. Waiting on cementers.
- 9/26/24** Checked 4-gas levels and well pressures (all 0 psi). RU cementing services. Pumped plug #3 from 1313' to 900' to cover the T salt and Anhydrite formation tops. L/D tubing. WOC 4 hours. P/U tag sub. TIH and tagged at 928'. RU cementing services. Attempted to pressure test casing but was unsuccessful. TOOH. RU wireline services. RIH and perforated at 700'. POOH. R/D wireline services. P/U 7" packer. RIH and set packer at 480'. With EOT at 544'. RU cementing services. Attempted to inject through packer and into perforation but casing pressured up. Unset packer. TOOH. L/D packer. TIH with tubing at 750' RU cementing services. Pumped plug #4 from 750' to 500'. TOOH. Put pressure on casing and shut in. WOC overnight. Secured well and equipment.
- 9/27/24** Checked 4-gas levels and well pressures (all 0 psi). P/U cement tag sub. TIH and tagged plug #4 at 570'. TOOH with tubing. P/U 7" packer. TIH and set at 480'. RU cementing services. Attempted to pressure test casing above the packer but was unsuccessful. Unset packer. Reset packer at 320'. Attempted to pressure test casing above packer but was unsuccessful. Unset packer. Reset packer at 160'. Attempted to pressure test casing above packer but was unsuccessful. TOOH. L/D packer. TIH to 570'. RU cementing services. Continued pumping plug #4 from 570' to 470'. TOOH. WOC 4 hours. TIH and tagged cement at 448'. RU cementing services. Attempted to pressure test casing but was unsuccessful. Continued pumping plug #4 from 448' to 398'. L/D 3 joints. TOOH. WOC overnight. Secured and shut in well for the day.
- 9/28/24** Checked 4-gas levels and well pressures (all 0 psi). P/U cement tag sub. TIH and tagged plug #4 at 380'. RU cementing services. Continued pumping plug #4 from 380' to 280'. L/D tubing to 280'. RU cementing services. Reverse circulated at 280'. R/D cementers. TOOH. WOC 4 hours. P/U tag sub. TIH and tagged cement at 308'. TOOH with tubing. RU wireline services. RIH and perforated at 300'. R/D wireline services. TIH with tubing to the top of cement at 308'. RU cementing services. Continued pumping plug #4 from 308' to 204'. TOOH. Put pressure on casing and shut in well. Secured well and shutdown.
- 9/29/24** Checked 4-gas levels and well pressures (all 0 psi). P/U cement tag sub. TIH and tagged plug #4 at 218'. L/D tubing. RU wireline services. RIH and perforated at 214'. POOH. R/D wireline services. Monitor well for gas and H2S. R/D floor, tongs, slips. ND BOP. Removed tubing head and adaptor spool. Weld on 7" bell nipple. Installed 7" WH and drill flange. P/U tubing. RU cementing services. Continued pumping plug #4 from 218' to surface. L/D tubing. Installed B-1 adaptor. RU cementing services. Continued pumping cement down casing and into perforations at 214' and out 10-3/4" casing at surface. Removed WH. Cut off Wellhead. Ran weighted tally down 7" casing and tagged at 28'. 10-3/4" casing at

surface. Top off 7" casing. Installed P&A marker per all regulations. Prepare to MOL.

Plug Summary:

Plug #1: (Queen, 7 Rivers, Yates, and B Salt Formation Tops, 3,106'-2,293', 150 Sacks Type I/II Cement)

TIH to 3106'. RU cementing services. Pumped plug #1 from 3106' to 2800'. R/D cementers. TOOH. WOC 4 hours. TIH and tagged TOC at 2801'. RU cementing services. Continued pumping plug #1 from 2801' to 2300'. L/D 15 joints and TOOH. WOC overnight. P/U cement tag sub. TIH and tagged plug #1 at 2293'.

Plug #2: (2,220'-2,105', 24 Sacks Type I/II Cement)

P/U 7" CR. TIH and set CR at 2220'. L/D 7 joints. RU cementing services. Attempted to pressure test casing but was unsuccessful. TOOH. RU wireline services. RIH and perforated at 2200'. POOH. R/D wireline services. TIH with tubing to CR at 2200'. RU cementing services. Pumped plug #2 from 2220' to 2100'. WOC overnight. TIH and tagged plug #2 at 2105'.

Plug #3: (DV Tool, T Salt and Anhy Formation Tops, 1,313'-928', 80 Sacks Type I/II Cement)

RU cementing services. Pumped plug #3 from 1313' to 900' to cover the T salt and Anhy formation tops. L/D tubing. WOC 4 hours. P/U tag sub. TIH and tagged at 928'.

Plug #4: (Surface Casing Shoe, 750'-Surface, 290 Sacks Type I/II Cement) (64 sacks for top off)

RU wireline services. RIH and perforated at 700'. POOH. R/D wireline services. TIH with tubing at 750' RU cementing services. Pumped plug #4 from 750' to 500'. TOOH. Put pressure on casing and shut in. WOC overnight. TIH and tagged plug #4 at 570'. Attempted to find hole with 7" packer. TIH to 570'. RU cementing services. Continued pumping plug #4 from 570' to 470'. TOOH. WOC 4 hours. TIH and tagged cement at 448'. RU cementing services. Attempted to pressure test casing but was unsuccessful. Continued pumping plug #4 from 448' to 398'. L/D 3 joints. TOOH. WOC overnight. TIH and tagged plug #4 at 380'. RU cementing services. Continued pumping plug #4 from 380' to 280'. L/D tubing to 280'. RU cementing services. Reverse circulated at 280'. R/D cementers. TOOH. WOC 4 hours. P/U tag sub. TIH and tagged cement at 308'. TOOH with tubing. RU wireline services. RIH and perforated at 300'. R/D wireline services. TIH with tubing to the top of cement at 308'. RU cementing services. Continued pumping plug #4 from 308' to 204'. TOOH. Put pressure on casing and shut in well. TIH and tagged plug #4 at 218'. L/D tubing. RU wireline services. RIH and perforated at 214'. POOH. R/D wireline services. Monitor well for any gas or H2S. R/D floor, tongs, slips. ND BOP.

Removed tubing head and adaptor spool. Weld on 7" bell nipple. Installed 7" WH and drill flange. P/U tubing. RU cementing services. Continued pumping plug #4 from 218' to surface. L/D tubing. Installed B-1 adaptor. RU cementing services. Continued pumping cement down casing and into perforations at 214' and out 10-3/4" casing at surface. Removed WH. Cut off Wellhead. Ran weighted tally down 7" casing and tagged at 28'. Cement was a surface in 10-3/4" casing. Top off 7" casing. Installed P&A marker per all regulations.

Compiled by: Drake
Edited by: OCD

Wellbore Schematics

Estimated Pre P&A Wellbore Diagram

NMOCD Jal Well

COLL # 1

API # 30-025-11832

SW, NE Unit B, Sec 29, T25S, R37E

Lea County, NM

GL 3032'

Spud Date 12/14/1951

Plug Date 8-31-1953? (Records are contradictory)

SURF CSG

Hole size ?

Csg Size: 10.75"

Wt: 32#

Grade: N/A

Depth 269'

cap cft/ft: 0.5665

TOC: Surf ?

FORMATION TOPS

Anhydrite

T Salt

B Salt

Yates

7 Rvrs

Queen

970'

1110'

2340'

2540'

2650'

2950'

4 1/2" pipe marker open b

1/2" steel plate welded on

10 sx Plug placed at surf

PROD CSG

Hole size ?

Csg Size: 7"

Wt: 20#

Grade: ?

DV Tool 1250'

Depth 3127'

cap cft/ft: 0.2273

Csg/Csg Ann, cft/ft: 0.2993

Csg/OH Ann, cft/ft: ?

TOC ?

DV Tool

10 sx Plug placed at 1900' ?

TOC ?

TD 3170'

As Plugged Wellbore Diagram NMOCD Jal Well

COLL # 1
API # 30-025-11832
SW, NE Unit B, Sec 29, T25S, R37E
Lea County, NM

GL 3032'

Spud Date 12/14/1951

SURF CSG



Hole size 12.75"
Csg Size: 10.75"
Wt: 32#
Grade: N/A
Depth 269'
cap cft: 0.5665
TOC: Surf ?

FORMATION TOPS

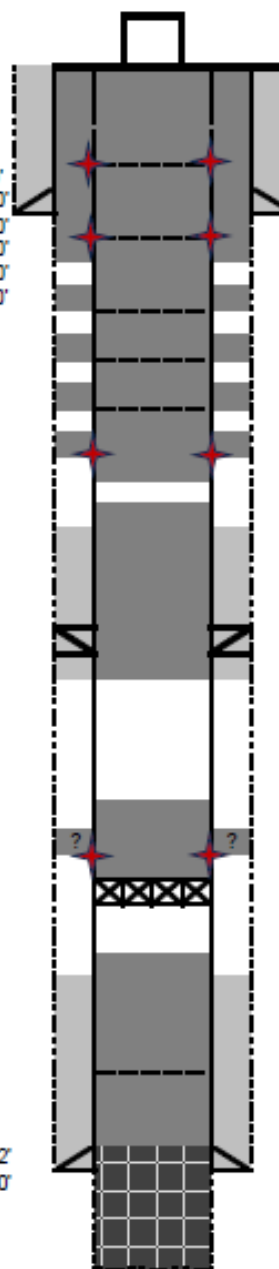
Anhydrite 970'
T Salt 1110'
B Salt 2340'
Yates 2540'
7 Rvrs 2650'
Queen 2950'

PROD CSG

Hole size 8.75"
Csg Size: 7"
Wt: 20#
Grade: ?
DV Tool 1250'
Depth 3127'
cap cft: 0.2273
Csg/Csg Ann, cft: 0.2993
Csg/OH Ann, cft:

 = Existing cement
 = Plug cement

PBTD, (Fill) 3112'
TD 3170'



Cut off WH, install P&A marker. The well is PLUGGED.

7" casing had holes at 100'

9-26-24 to 9-29-24: Plug 4: Perf at 700', could not inject. Mix and spot balanced plug from 750', WOC, tagged at 570'. Mixed and pumped balanced plug from 570', WOC, tagged at 448'. Mix and pump balanced plug from 448', WOC, tagged at 380'. Mix and pump balanced plug from 380', WOC, tagged at 308'. Perf at 300', Mix and pump plug from 308', WOC, tagged at 218'. Perf at 214', R/D BOP and 10 3/4" adapter, install bell nipple on 7" casing. TIH to 214', Mix and pump cement from 214' to surface, Pull tbg and then continue pumping cement down 7" casing until cement circulated out the 10 3/4" surface casing. Total of 290 sx.

Attempt to PT casing from 928' to surface, casing has numerous holes.

TOC = 940' CBL

9-26-24: Plug 3: Mix and spot a balanced plug of 80 sx from 1313'. WOC, tagged at 928'.

DV Tool 1250'

9-24-24: Plug 2: Set CR at 2220', PT casing, failed, Perf at 2200'. Could not inject into perfs. Mix and pump balanced plug of 24 sx from 2220'. WOC, tagged at 2105'.

TOC 2360' CBL

9-23-24: Plug 1: Part 1 & 2: Total 150 sx, Type I/II from 3106'. WOC, tagged at 2801'. Plug 1, Part 2: 2801', WOC, tagged @ 2293'.

9-23-24: Ran CBL from 3100' to surface

9-21-24: Tagged fill at 3112'. 9-23-24:

All cement used was Type I/II cement mixed at 15.6 ppg and a yield of 1.18 cu ft/sx.

Images



Figure 1: 9/6/24 OCD arrived on site to the Coll #1. Picture of the dry hole marker venting H₂S gas



Figure 2: 9/16/24 Wellhead and BOP installation achieved



Figure 3: BOP & top half of slip-on adapter removed from the 10.75" casing. The 10.75" and 7" casings are exposed.



Figure 4: 9/29/24 Pumping cement down the 7" casing



Figure 5: 9/29/24 Both the 7" and 10.75" casings filled with cement



Figure 6: 9/29/24 Dry hole marker installed, well is plugged and abandoned

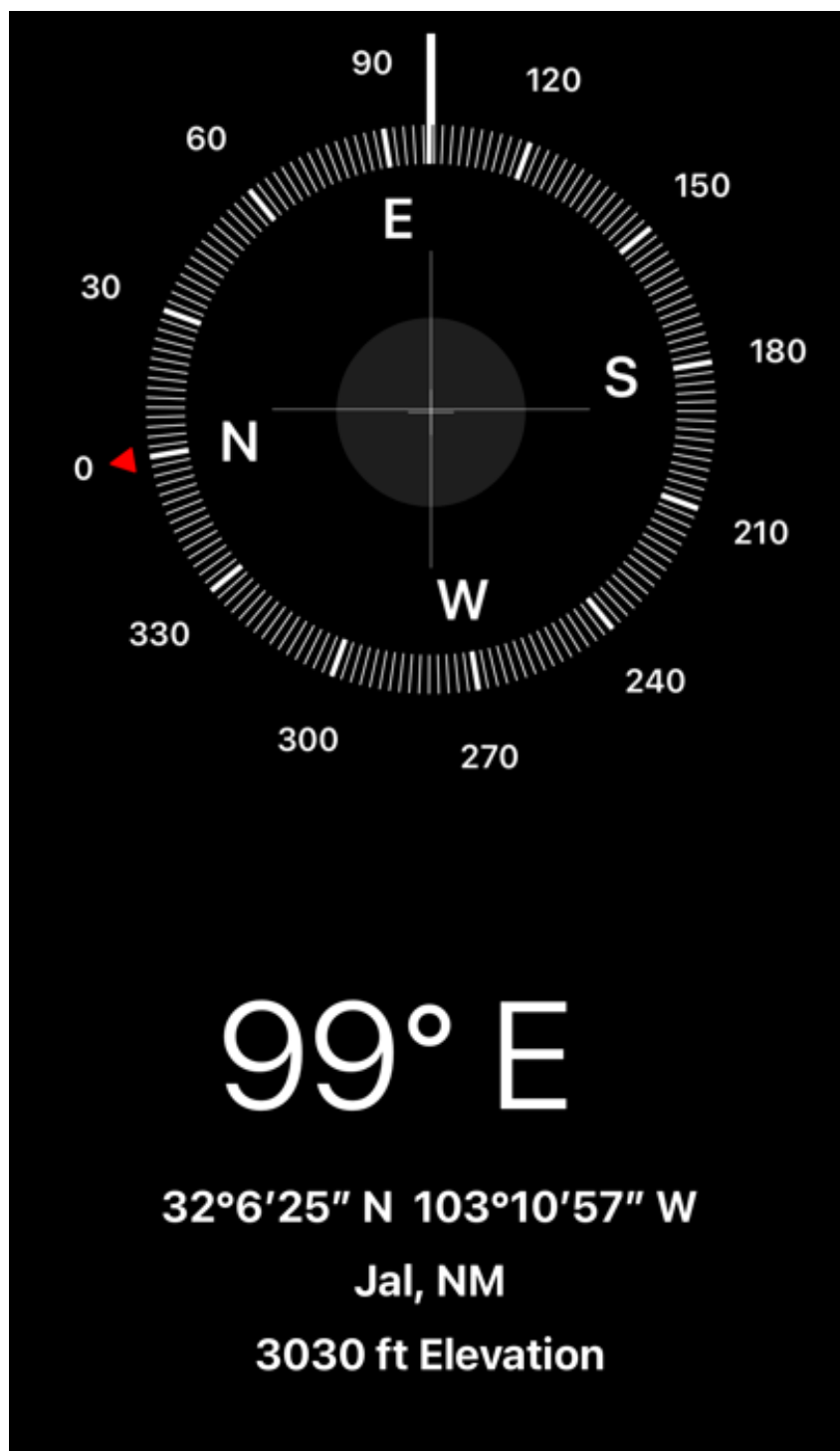


Figure 7: Location information of the Coll #1 well

Glossary

4-gas: a gas detection device that can simultaneously measure and identify the concentrations of four specific gases, typically including oxygen (O₂), carbon monoxide (CO), hydrogen sulfide (H₂S), and a combustible gas (like methane, measured as LEL - lower explosive limit)

Anhy: Anhydrite

B Salt: Bottom of the salt formation

BHA: Bottom hole assembly

BOP: Blow out preventor

CBL: Cement bond log

Cellar: the dug out area near a wellhead

CIBP: Cast iron bridge plug

CR: Cement retainer

Dry watch / Night Watch: A watch where personal do not preform working tasks but stay on sight to monitor conditions of the well, while also ensuring no one comes on site.

DV tool: Diverting valve

EOT: End of tubing

GL: Ground level

H₂S: Hydrogen sulfide

L/D: Lay down

LEL: Lower explosive limit

MIRU: Move in rig up

MOL: Move of location

MU: Make up

N₂: Nitrogen

ND: Nipple down

NU: Nipple up

OH: Open hole

P/U: Pick up

PBTD: Plug back total depth

POOH: Pull out of hole with wireline

PT: Pressure test

R/D: Rig down

RDMO: Rig down move out

RIH: Run in hole with wireline

RU: Rig up

SCBA: Self-contained breathing apparatus

sx: sacks

T Salt: Top of the salt formation

TD: total depth

TIH: Trip in hole with pipe

TOC: Top of cement

TOOH: Trip out of hole with pipe

WH: Wellhead

WL: Wireline

WOC: Wait on cement to cure

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 489827

CONDITIONS

Operator: PRE-ONGARD WELL OPERATOR 1220 S St Francis Santa Fe, NM BADADDR	OGRID: 214263
	Action Number: 489827
	Action Type: [IM-SD] Well File Support Doc (ENG) (IM-AWF)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	7/29/2025