

Additional Information

Received: 4/24/2026

From: [Goetze, Phillip, EMNRD](#)
To: [Doug, Delilah, EMNRD](#)
Subject: 1 of 5 Forwarded Blackbuck - Supplemental C-108 Information Submittal
Date: Tuesday, July 14, 2026 2:07:23 PM
Attachments: [Ballard SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Allegiance Federal SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Justice SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Resolve State SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Independence SWD #1 - OCD Follow-up Submittal Package.pdf](#)
[Republic SWD #1 - OCD Follow-up Submittal Package.pdf](#)

Multiple attachments. He has provided the application info below. PRG

From: Nate Alleman <nate.alleman@aceadvisors.com>
Sent: Friday, April 24, 2026 3:47 PM
To: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Sandoval, Stacy, EMNRD <Stacy.Sandoval@emnrd.nm.gov>
Subject: [EXTERNAL] Blackbuck - Supplemental C-108 Information Submittal

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Tony,

Based on OCD's comments in recent Administrative Completeness Checklists, Blackbuck submits the attached supplemental information for the six (6) applications listed below. Each package includes a cover letter that describes what supplemental information is being submitted for each application and why.

- **Ballard SWD #1** (pSYS2605432926; SWD-2688)
- **Resolve State SWD #1** (pSYS2605434916; SWD-2689)
- **Allegiance Federal SWD #1** (pEG2528351636; SWD-2677)
- **Independence SWD #1** (pEG2528350873; SWD-2676)
- **Justice SWD #1** (pEG2528350098; SWD-2675)
- **Republic SWD #1** (pEG2528352412; SWD-2678)

Please let me know if you have any questions or need any additional information.

Thank You!

Nate Alleman
Regulatory Advisor
Ace Energy Advisors
C. 918.237.0559
E. nate.alleman@aceadvisors.com



April 24, 2026

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Subject: Blackbuck Resources, LLC; Allegiance Federal SWD #1 (SWD-2677; pEG2528351636)
C-108 Supplemental Submittal

OCD Director,

The purpose of this letter is to submit supplemental information associated with Blackbuck Resources, LLC's (Blackbuck) C-108 application for the proposed Allegiance Federal SWD #1 (SWD-2677; pEG2528351636). This information is being provided to address OCD's comments in a recent Administrative Completeness Checklist. A list of the updates to the application is included below.

- **Revise from Open-Hole to Cased-Hole:** Revised completion from Open-Hole to Cased-Hole and updated the liner depth and cement volumes in the Tabulated Casing Data and Wellbore Diagram (WBD) accordingly.
 - see **Attachment A** for Updated Tabulated Casing Data (p. 3) and Updated WBD (p. 5)
- **No Underlying USDW Statement:** Added a Statement to the Geology Data clarifying that "No USDWs were identified underlying the proposed injection interval."
 - See **Attachment A** for the Underlying USDW Statement (p.4)
- **Distance to Nearest Completed Horizontal Wellbore:** Evaluated the distance to the nearest Completed Horizontal Wellbore based on data from Enverus and created a map to confirm and demonstrate that the nearest Completed Horizontal Wellbore is greater than 330' from the Surface Hole Location of the proposed SWD.
 - See **Attachment B** for Horizontal Wellbore Proximity Map (p. 7)
- **Plugged Wellbore Diagram:** Prepared a Wellbore Diagram for API # 30-015-01137 (along with supporting documentation), which was identified as a well within the AOR that penetrated the injection interval.
 - See **Attachment C** for Plugged WBD (p. 9) and Supporting Documentation (p. 10-19)

Questions regarding the included materials can be directed to Nate Alleman (Blackbuck Regulator Advisor Contractor) via telephone at 918-237-0559 or via email at nate.alleman@aceadvisors.com.

Sincerely,

A handwritten signature in black ink that reads "Nathan Alleman".

Nate Alleman
Chief Regulatory Advisor
Ace Energy Advisors

Attachment A

Proposed SWD Data and Wellbore Diagram

Well Data**Operator** - Blackbuck New Mexico LLC**Lease/Well Name & Number** - Allegiance Federal SWD #1**Legal Location** - 394' FNL & 151' FWL - Unit Lot 4 – Section 5 R25S T27E – Eddy County**Coordinates** - 32.165286, -104.220793**Casing Data**

Casing String	Hole Size (in)	Casing Size (in)	Casing Depth (ft)	Sacks Cement (sx)	Top of Cement (ft)	Method Determined
Surface	26"	20"	250'	438	Surface	Circulation
1 st Intermediate	17-1/2"	13-3/8"	2,170'	1,210	Surface	Circulation
2 nd Intermediate	12-1/4"	9-5/8"	10,684'	2,675	Surface	Circulation
Liner	8-3/4"	7-5/8"	9,680' - 14,360'	344	9,680'	Calculation - circulate to top of liner

Tubing: 7" x 5-1/2" fiberglass-coated tubing set at 13,103'**Packer:** Baker SC-2 or equivalent set at 13,103'**Geology Data****Injection Formation Name** - Devonian-Silurian**Pool Name** - SWD; Devonian-Silurian**Pool Code** – 97869**Injection Interval** - Cased-hole injection between 13,123' - 14,360'**Drilling Purpose** - New drill for injection**Other Perforated Intervals:** No other perforated intervals exist.**Overlying Oil and Gas Zones:**

- Delaware (2,197')
- Bone Spring (5,709')
- Wolfcamp (8,852')

Overlying Oil and Gas Zones:

- None

Geologic Description of Injection Interval:**Proposed Injection Interval**

The proposed injection interval, at depths of 13,123 ft – 14,360 ft bgs, includes the Devonian and Silurian formations and is a package of carbonates consisting of predominantly of dolomite with limestone and interbedded cherts. Dolomitic and limestone porosities are expected to range from 0% to 7% with higher skeletal cherts ranging greater than 7% due to secondary porosity in the form of vugs and fractures from weathering effects and compaction. Permeabilities in the 2-7% porosity dolomitic grainstones intervals are estimated to be in the 2-20 millidarcy range, with higher porosity intervals estimated to be in the 40-100 millidarcy range. The cased hole injection interval is expected to be within the majority of the higher permeability intervals.

Overlying Confinement

Overlying Confinement is provided by approximately 179 cumulative feet of low-permeability limestone and shale of the Mississippian Limestone and Woodford Shale that will act as barrier to fluid flow and prevent upward migration of injectate into overlying formations. With the top of the proposed injection interval at 13,123 ft, there is expected to be approximately 12,899 ft of vertical separation between the injected fluids and the base of the lowermost USDW, including the 179 ft thick permeability barrier immediately overlying the injection interval. In addition to the geologic isolation, the freshwater resources will be further isolated and protected by surface casing that will be set at approximately 250 ft (25 ft below the base of the lowermost USDW) and cemented to surface.

Underlying Confinement

Underlying Confinement is provided by approximately 335 cumulative feet of low-permeability carbonates of the Silurian-aged Montoya formation. The proposed well will TD approximately 47 ft above the top of the Ordovician Montoya and will not inject fluids into the Montoya itself in order to provide sufficient barrier to avoid injection into the Middle Ordovician Simpson, the Lower Ordovician Ellenburger, or the Cambrian and the Precambrian below. The Precambrian structure contours show the basement to be at a depth of approximately 16,004 ft in this area. Therefore, the injection zone lies approximately 1,644 ft above the Precambrian basement.

Groundwater

Although a true Underground Source of Drinking Water (USDW) isn't known to exist in the area of the proposed SWD, domestic and livestock water well data indicate the deepest fresh water-bearing strata in the area occurs at depths of less than 200 ft. With the top of the proposed injection interval at 13,123 ft, there is expected to be approximately 12,923 ft of vertical separation between the injected fluid and the deepest fresh water-bearing strata, including the 179 ft thick permeability barrier immediately overlying the injection interval. In addition to the geologic isolation, the fresh water resources will be further isolated and protected by surface casing that will be set at approximately 250 ft (approximately 50 ft below the deepest known fresh water-bearing strata) and cemented to surface.

No USDWs were identified underlying the proposed injection interval.

Operational Data

Proposed Maximum Injection Rate: 40,000 BWPd

Proposed Average Injection Rate: 30,000 BWPd

Proposed Maximum Injection Pressure: 2,624 psi (surface)

Proposed Average Injection Pressure: 2,000 psi (surface)

Prepared By:



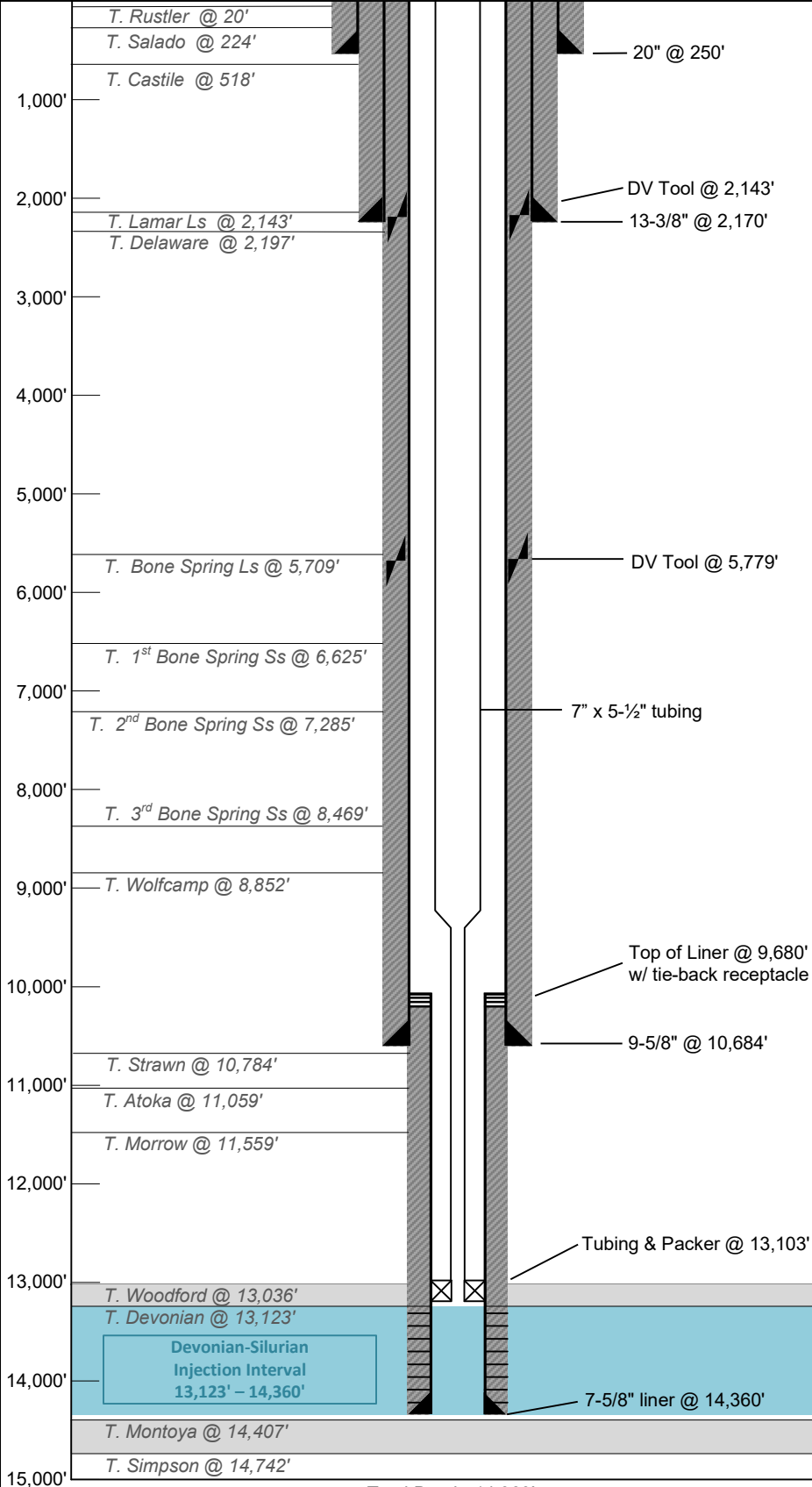
Allegiance Federal SWD #1

Proposed Wellbore Diagram

Prepared For:



Estimated Formation Depth Picks

**Surface Casing**

Casing Size: 20 in
 Casing Type: 94 lb/ft J-55
 Casing Depth: 250 ft
 Hole Size: 26 in
 Top of Cement: Surface
 Sks Cement: 438 sx
 Cement Type: Class C

1st Intermediate Casing

Casing Size: 13-3/8 in
 Casing Type: 61 lb/ft J-55 BTC
 Casing Depth: 2,170 ft
 Hole Size: 17-1/2 in
 Top of Cement: Surface
 Sks Cement: 1,210 sx
 Cement Type: Class C

2nd Intermediate Casing

Casing Size: 9-5/8 in
 Casing Type: 53.5 lb/ft P110
 Casing Depth: 10,684 ft
 Hole Size: 12-1/4 in
 Top of Cement: Surface
 Sks Cement: 2,675 in 3 stages
 Cement Type: Class C

Liner

Casing Size: 7-5/8 in
 Casing Type: 29.7 lb/ft HCL-80
 Casing Depth: 9,680 ft – 14,360 ft
 Hole Size: 8-3/4 in
 Top of Cement: 9,680 ft
 Sks Cement: 344 sx
 Cement Type: Class C

Injection Tubing & Packer

Tubing Size: 7" x 5 1/2 in
 Tubing Type: 29# x 15.5# fiberglass lined
 Tubing Depth: 13,103 ft
 Packer Type: Baker SC-2 or equivalent
 Packer Depth: 13,103 ft

Injection Interval

Formation(s): Devonian-Silurian
 Top: 13,123 ft
 Bottom: 14,360 ft
 Hole size: 7-5/8 in
 Cased or Open-Hole: Cased-Hole

Total Depth: 14,360'
 PBD: 14,360'

Notes:

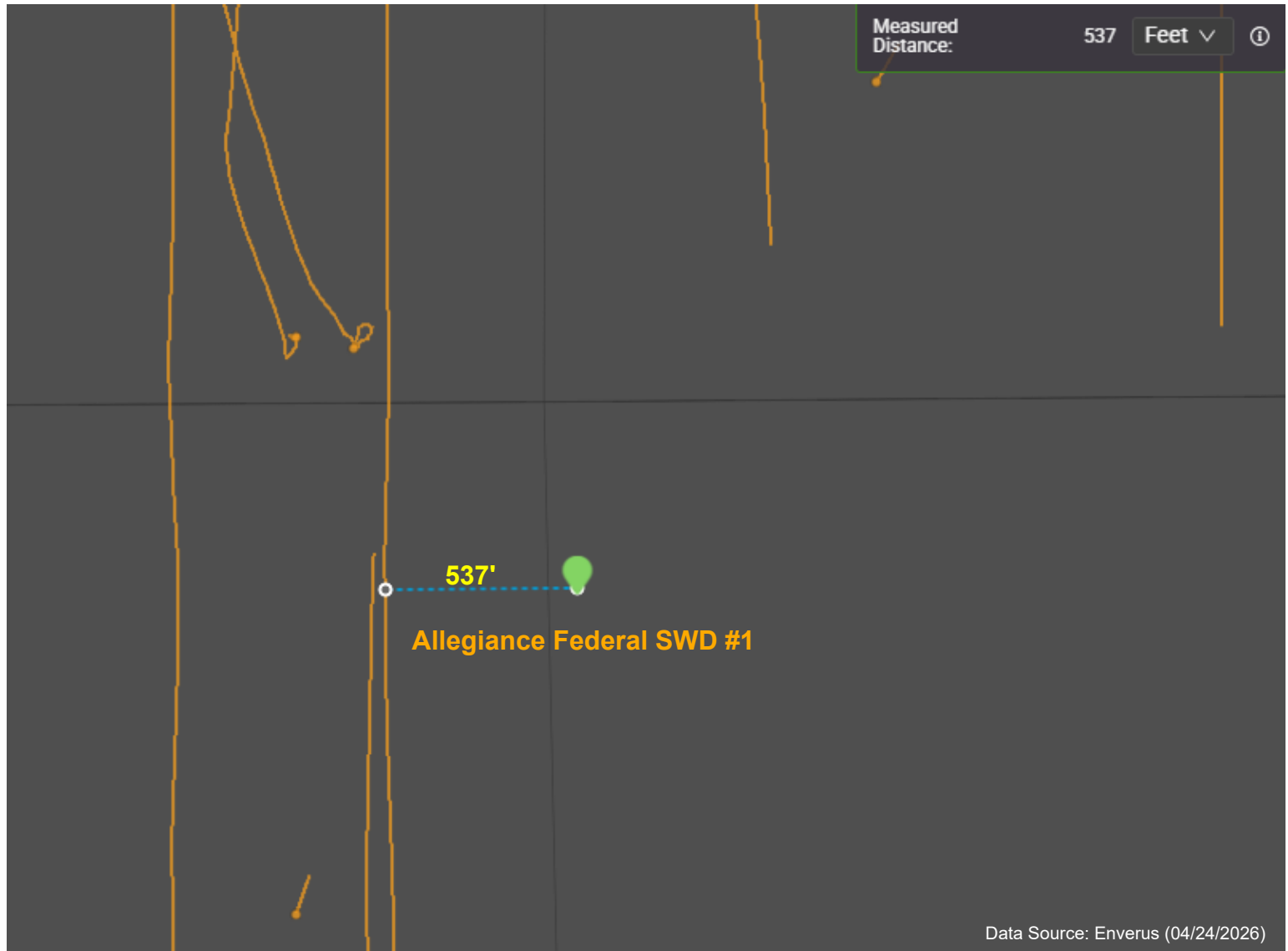
- Listed depths are measured from ground surface.
- Depths and cement volumes are estimates based on evaluation of the available information.

NOT TO SCALE

Attachment B

Horizontal Wellbore Proximity Evaluation

Allegiance Federal SWD #1 - Distance to Adjacent Horizontal Wellbores



Attachment C

Plugged WBD & Supporting Documentation

Prepared By:



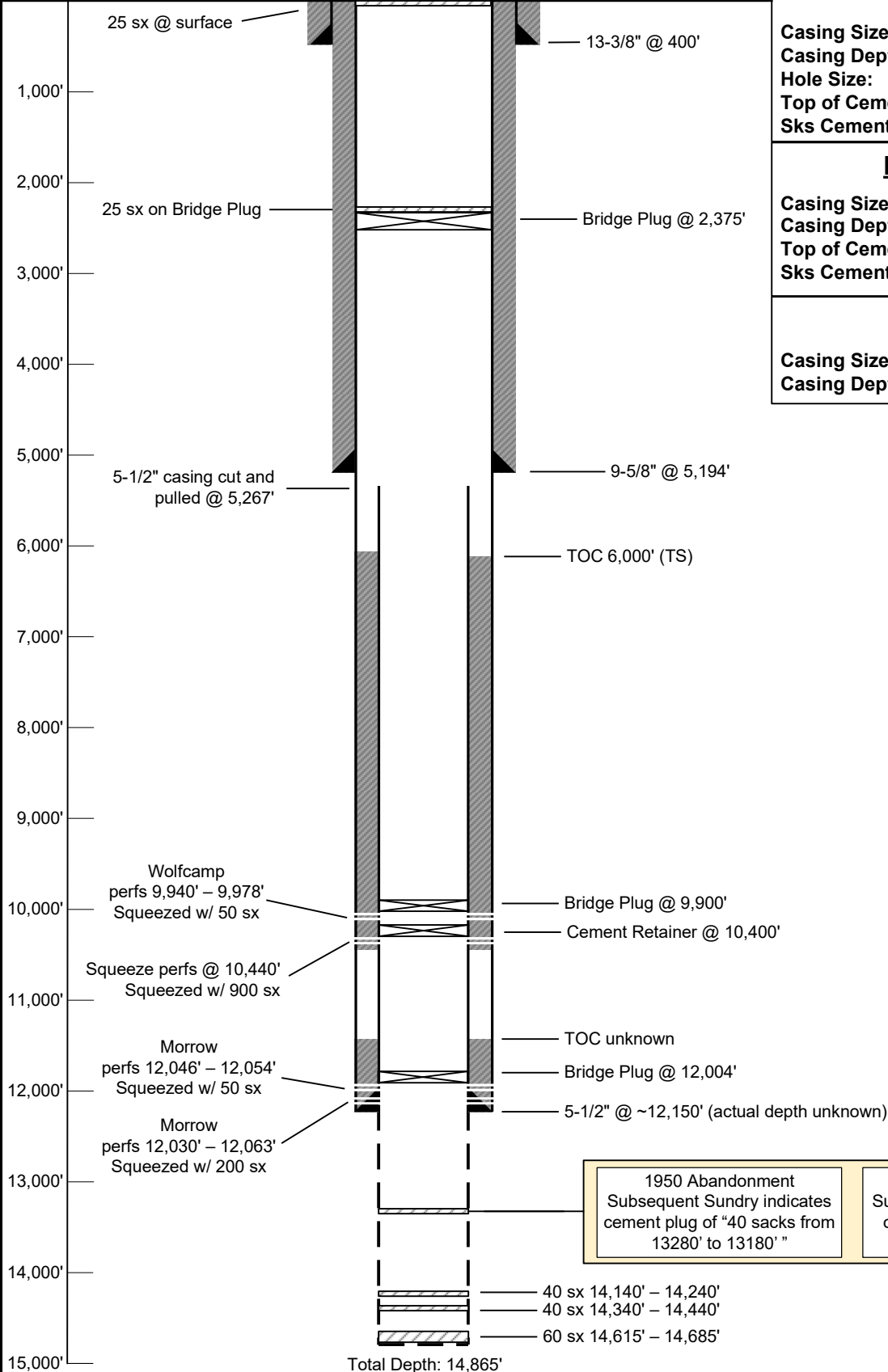
30-015-01137

Wellbore Diagram

Prepared For:



Estimated Formation Depth Picks

**Surface Casing**

Casing Size: 13-3/8 in
Casing Depth: 400 ft
Hole Size: 12-1/4 in
Top of Cement: Surface
Sks Cement: 425 sx

Intermediate Casing

Casing Size: 9-5/8 in
Casing Depth: 5,194 ft
Top of Cement: Surface
Sks Cement: 1,000

Production Casing

Casing Size: 5-1/2 in
Casing Depth: ~12,150 ft

Notes:

- Listed depths are measured from ground surface.
- Depths and cement volumes are estimates based on evaluation of the available information.

NOT TO SCALE

Form 4-4414
(March 1942)

APPROVED

MAY 3 1949

Frank B. Stahl
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPlicate)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYBudget Bureau No. 41-214.1
Approval expires 11-30-49.Land Office Las Cruces, N.M.Lease No. 1-C-067412

Unit _____

Federal Wiggs

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	SUBSEQUENT REPORT OF WATER SHUT-OFF _____
NOTICE OF INTENTION TO CHANGE PLANS _____	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING _____
NOTICE OF INTENTION TO TEST WATER SHUT-OFF _____	SUBSEQUENT REPORT OF ALTERING CASING _____
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL _____	SUBSEQUENT REPORT OF REDRILLING OR REPAIR _____
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____	SUBSEQUENT REPORT OF ABANDONMENT _____
NOTICE OF INTENTION TO PULL OR ALTER CASING _____	SUPPLEMENTARY WELL HISTORY _____
NOTICE OF INTENTION TO ABANDON WELL _____	
Notice of Spudding _____	

(Indicate above by check mark nature of report, notice, or other data)

Midland, Texas April 28, 1949Well No. 1 is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 31

SW/4 of NE/4 of S. 31 T-24-S 27-E
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Black River Wildcat Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3460 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show logs, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 12-1/4" hole at 11:00 A.M., April 27, 1949

GEOLOGICAL SURVEY
MAY 2 1949
ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining CompanyAddress Box 1600Midland, TexasBy [Signature]Title Division Chief Clerk

Form 9-881a
(March 1942)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYLand Office Las Cruces, N.M.
Lease No. 067214
Unit _____

FEDERAL WIGGS

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	☒	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Midland, Texas May 4, 1949Well No. 1 is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 31

SW/4 of NE/4 of Sec. 31 24-S 27-E _____
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Black River Wildcat Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3460 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set 13-3/8 inch casing as follows:

Size	Amount	Weight	Set At	Formation	Total Depth of Well	No. Sacks Make Cement	Plug on Bottom
13-3/8"	383'	46#	400'	Anhy.	1027'	425 Sacks El Toro	8:00 AM 5-4-49

Halliburton method used.
 Circulated out approx. 50 sacks cement.
 Will test casing with 750# at 8:00 AM, 5-5-49.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining CompanyAddress Box 1600Midland, TexasBy [Signature]
Title Asst. Division Superintendent

Form 4-881a
(March 1942)

APPROVED

Frank B. Stahl
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYBudget Bureau No. 42-848.1
Approval expires 11-30-49Land Office Las Cruces, N.M.Lease No. L.C. 067214

Unit _____

FEDERAL WIGGS

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ABANDONING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	X	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Midland, Texas, June 13, 1949

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 31
SW/4 of NE/4 of Sec. 31 24-S 27-E
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Black River Wildcat Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3460 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.)

Set 9-5/8" casing as follows:

Size	Amount	Weight	Set At	Formation	Total Depth of Well	No. Sacks Make Cement	Plug on Bottom
9-5/8"	5179.20'	36# 40#	5194'	Line	5195'	1000 sacks El Toro	3:50 PM 6-12-49

U. S. GEOLOGICAL SURVEY
 3300 sacks
 Trinity
 RECEIVED 6/13/49

Halliburton Method used.
 Circulated out approx. 500 sacks excess cement.
 Will test casing with 1000# at 2:15 AM, 6/15/49

JUN 17 1949

ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining CompanyAddress Box 1600Midland, TexasBy W. S. DeweyTitle Div. Petroleum Engineer

Form 9-331a
(March 1942)

(SUBMIT IN TRIPLICATE)

Land Office Las Cruces, N.M.
Lease No. L.C. 067214
Unit _____UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Federal signs

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Midland, Texas February 6, 1950Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 31

SW/4 of NE/4 of Sec. 31 24-S 27-E _____
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Black River W/C Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3460 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

To plug and abandon well by placing cement plug as follows: 60 sacks cement from TD 14865 to 14615 (Ellenberger), 40 sacks from 14440 to 14340 (Montoya), 40 sacks from 14240 to 14140 (bottom Devonian), 40 sacks from 13280 to 13180 (top Devonian), 115 sacks from 11850 to 11550 (Pennsylvanian), 150 sacks from 10100 to 9800 (Wolfcamp), 80 sacks from 5294 to 5094 (Bottom 9-5/8" Csg.) and 40 sacks from 100 to surface. Interval between plugs to be filled with mud laden fluid. No casing will be recovered. Regulation marker to be installed.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company HUMBLE OIL & REFINING COMPANYAddress Box 1600
Midland, TexasBy [Signature]
Title Division Superintendent

Form 9-551a
(March 1942)Budget Bureau No. 42-2244
Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYLand Office Las Cruces, N.M.Lease No. L.C. 067214

Unit _____

Federal Wiggs

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Midland, Texas February 22, 19 50Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 31

SW/4 of NE/4 Sec 31 24-S 27-E _____
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Black River W/C Eddy County New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3460 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Plugged and abandoned well by placing cement plug of 60 sacks from TD of 14865' to 14615', 40 sacks from 14440' to 14340', 40 sacks from 14240' to 14140', 40 sacks from 13280' to 13180', 115 sacks from 11850' to 11550', 150 sacks from 10100' to 9800', 80 sacks from 5294 to 5094' and 40 sacks from 100' to surface. Interval between plugs filled with mud laden fluid. No casing was recovered. Installed regulation marker.

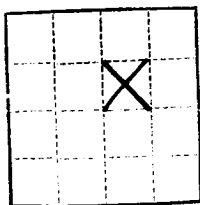
U. S. GEOLOGICAL SURVEY
 RECEIVED
 FEB 27 1950
 ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Humble Oil & Refining CompanyAddress Box 1600Midland, TexasBy J. P. Hutton

Title Assistant Division Superintendent

EEI

Form 9-231a
(Feb. 1951)Budget Bureau 42-R358.3.
Approval expires 12-31-55.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office

Lease No. **W-07339**

Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

Notice of Intention To Re-Enter & X

Re-Complete (INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 18, 1950

Federal Wiggs

Well No. **1-31** is located **1900** ft. from **[N]** line and **1900** ft. from **[E]** line of sec. **31**

NE/4 **Sec. 31** **24-S** **27-E** **N.M.P.M.**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wilcox **Elk** **New Mexico**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **Unknown at present** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The above well was drilled by **Shutle Oil Company** and abandoned in 1950 at a total depth of **14,865** feet.

It is proposed to drill out cement plugs, condition hole, cement **5-1/2"** casing at approximately **12,170** feet, perforate, treat and test the **Pennsylvanian** and **Murree** formations for commercial production.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Union Oil Company of California**Address **619 West Texas Avenue****Midland, Texas**

By

Title **Asst. Drilling Supt.**

FEDERAL-WIGGS NO. 1-31
DETAILED ACCOUNT OF WORK PERFORMED
DURING JUNE, 1958

Ran delta temperature logs, set Baker FBC at 11,969' and squeezed perforations 12,030-62' with 200 sacks cement (1666 gallons). Drilled cement 11,968 to 12,063' with 4-3/4" bit.

Lane-Wells perforated 12,046-54' with 4 jet shots per foot. Ran and landed 2" EUE tubing 11,974' and acidized perforations 12,046-54' with 2000 gallons of Dowell breakdown acid. Swabbed load water (spent acid water by analysis).

Ran radio-active survey through perforations at 12,046-54'.

Set 5-1/2" Model K bridge plug at 12,004' and squeezed perforations 12,046-54' with 50 sacks cement. Waited on cement and then perforated 5-1/2" casing at 10,440' with 4 holes.

Ran and landed 2" EUE tubing with packer at 10,155'. Broke circulation through perforations 10,440' at 2200# and circulated free at 1400#. Pulled out with tubing.

Set 5-1/2" Baker Model K magnesium retainer at 10,400' and cemented 5-1/2" casing through perforations at 10,440' with 900 sacks Diamix cement.

Laid down 2" EUE tubing. Ran temperature survey and found top of cement at 6000'.

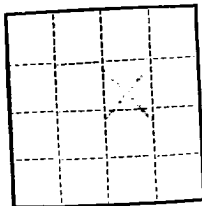
Well shut in as of June 18, 1958.

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

Land Office

Lease No.


 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

JAN 11 1961

JAN 11 1961

 SUNDRY NOTICES AND REPORTS ON WELLS
 ARTESIA, OFFICE

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 4, 1960

 Federal Riggs
 Well No. 1-31 is located 1980 ft. from N line and 1980 ft. from E line of sec. 31

1/4 Sec. and Sec. No.

 24-S
 (Twp.)

 27-E
 (Range)

 T.4N.R.4E
 (Meridian)

 Well No. 1-31
 (Field)

 Eddy County
 (County or Subdivision)

 New Mexico
 (State or Territory)

The elevation of the derrick floor above sea level is 3460 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well was temporarily abandoned June 23, 1958. Rigged up double drum unit on December 1, 1960. Conditioned mud from surface to 10,400', which is effective depth in the 5-1/2" casing above cement retainer. Perforated Wolfcamp zone 9940-78' with 4 jets/ft. Acidized perforations 9940-78' with 500 gallons mud acid then with 3000 gallons mud acid. Have slight gas show, T.S.T.M. Well now shut-in. SIFP (72 hrs) 400'. Now evaluating for further treatment.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Union Oil Company of California

Address 619 West Texas Avenue

Midland, Texas

By

R. W. Yarbrough

Title: Drilling Supt.

GPO 862040

RECEIVED

Federal Wiggs No. 1-31 - Treatment History

JUN 23 1961

O. C. C.

ARTESIA, OFFICE

Perforations 12,030 - 12,062': Treated with 27,500 gallons mud acid; 2000 gallons breakdown acid and 23,060 gallons of acid frac. No commercial production. Squeezed perfs. with 200 sacks cement.

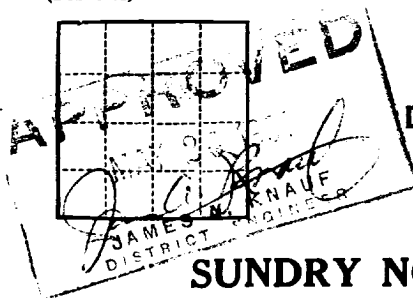
Perforations 12,046 - 54': Treated with 2000 gallons of Dowell breakdown acid. Swabbed spent acid water with no commercial production. Squeezed perfs. with 50 sacks cement.

Perforations 9940-78': Treated with 3500 gallons of mud acid, 500 gallons LST and NE acid and sand-fraced with 10,000 gallons of slick water with 3750# sand. No commercial production.

Details of perforations and treatments previously filed on Form 9-331-a.

Form 9-381a
(Feb. 1951)

N. M. O. C. C. COPY

Budget Bureau No. 42-R368.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-01137

Land Office _____

Lease No. _____

Unit _____

RECEIVED

JUN 23 1961

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Supplementary History (See attached sheet)	X

ARTESIAN OFFICE

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 21

1961

Federal W-885-1-51
Well No. _____ is located _____ ft. from {N} line and _____ ft. from {E} line of sec. 31.
NE/4, Sec. 31 26-S 27-E T1N-P1W
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3460 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well plugged and abandoned as follows on April 21, 1961.

Succumbed perfor 5240-70' with 50 ex. regular cmt. under cast iron bridge plug set at 5230'.

Cmt. and recovered 351 lbs. (5287') of 5-1/2" O.D. 17 1/2 lb. 1-8% casing.

With 9-5/8" cast iron bridge plug set at 5275' spotted 50 ex. cmt. plug 5260-5225', 35 ex. plug 5237'-5215' and 20 ex. cmt. plug in top of 9-5/8" casing.

Well capped with a steel plate and location identified by a 4" O.D. pipe marker.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Union Oil Company of California

Address 119 Cal. Texas Avenue

Midland, Texas

By _____

Title Production Clerk

RECEIVED

APR 24 1961

GEOLOGICAL SURVEY
ARTESIAN, NEW MEXICO

GPO 862040

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 605726

CONDITIONS

Operator: NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID: 264235
	Action Number: 605726
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
delilah.dougi	None	7/17/2026