

Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

5. Lease Serial No. NMNM0155254D

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well  
☒ Oil Well    ☐ Gas Well    ☐ Other

2. Name of Operator Shell Oil Company (Western Division)

3a. Address P.O. Box 576, Houston, TX 77210    3b. Phone No. (include area code) (832) 337-2434

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) S04 T09S R30E Unit E 1980 FNL 660 FWL

7. If Unit of CA/Agreement, Name and/or No. Cato San Andres Unit

8. Well Name and No. Cato San Andres Unit #186

9. API Well No. 30-005-20217

10. Field and Pool or Exploratory Area Cato; San Andres

11. Country or Parish, State Chaves County, New Mexico, USA

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Please refer to attached Plug and Abandonment End of Well Report

Accepted for Record - contact Rick Flores at rflores@blm.gov for reclamation.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title SGWS Legacy Program Manager

Signature Samantha Baker

Date 06/19/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title Petroleum Engineer

Date 06/25/2024

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office RFO

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

**LANGAN****Technical  
Memorandum**

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**300 Union Boulevard, Suite 405 Lakewood, CO 80228 T: 303.262.2000 F: 303.262.2001**

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**To:** BLM

**From:** Langan

**Info:** Shell

**Date:** May 30, 2024

**Re:** Plug and Abandonment – End of Well Report  
Cato San Andres Unit #186 / API 30–005–20217  
Section 4, Township 9S, Range 30E  
Langan Project No.: 781014301

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**Work Summary:**

**4/20/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 187. Preformed LEL check. Performed rig inspection. Checked well pressures. Moved equipment to location. Spot in equipment and unit. R/U unit. R/U cementing services. Pressure tested lines to 1800 psi. Pumped 40 bbls down 4.5" casing. Well went on vacuum and 120 psi on BH. Waited 30 minutes. 80 psi on 4.5" casing and 80 psi on BH. While waiting to set the cement pit pressure released around the BH causing dirt and debris to go up in the air. Waited 30 minutes. Pumped 20 bbls down 4.5" casing. Waited 30 minutes and fluid started coming out at surface around the BH. Waited 30 minutes. Pumped 20 bbls down 4.5" casing. Waited 30 minutes. Again, fluid started coming out at surface around the BH. Wait on orders. Shut in and secured well. Drove to Langan field office for EOD meeting.

**4/21/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 187. Preformed LEL check. Performed rig inspection. Checked well pressures. Held safety meeting. R/U cementing services. Pumped 58 bbls of brine water down the 4.5" casing. R/D cementers. Well Went on a vacuum. 10 minutes later it started coming around the BH at surface and out the 4.5" casing. Monitored well. Well went from 10 psi to 120 psi flowing water and gas out of the 4.5" casing and around the BH at surface. R/D unit and moved away from the WH. Monitored well for the rest of the day. Drove to Langan field office for EOD meeting.

**4/22/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 187. Preformed LEL check. Performed rig inspection. Checked well pressures. Held safety meeting. Moved base beam away from wellhead. Cleared around the wellhead to make room for dump trucks. Spotted additional cement bin. Wait on orders. Secured Well. Drove to Langan field office for EOD meeting.

**4/23/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 187. Preformed LEL check. Performed rig inspection. Checked well pressures. Moved in gravel trucks and backhoe. Fixed cellar and location. Spotted base beam and rig. R/U unit. Wait on orders. Attempted to NU BOP but did not have the correct equipment. Shutdown. Left all valved on 4.5" and BH open to pits overnight. Night watch to monitor well overnight. Fixed cattle guard while leaving the field.

# Technical Memorandum

Plug and Abandonment – End of Well Report  
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Langan Project No.: 781014301  
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**4/24/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 187. Preformed LEL check. Performed rig inspection. Checked well pressures. Held additional safety meetings. NU BOP. P/U 4.5" packer. TIH to 15'. Attempted to pressure test BOP but was unsuccessful. Packer became stuck in hole. Released packer. Replaced collar. Tied back onto packer. Was able to release the packer. TOOH. Shutdown and wait on orders. Ran hard lines from 4.5" casing and the BH to an open pit. Secured location.

**4/25/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 186. Preformed LEL check. Performed rig inspection. Checked well pressures. Held additional safety meetings. TIH and tagged at 195'. TOOH. Wait for orders on how to proceed. Shutdown and secured well.

**4/26/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 186. Preformed LEL check. Performed rig inspection. Checked well pressures. R/U wireline services. R/U wireline camera services. RIH. Found multiple holes from 345' to 649'. POOH. R/D wireline services. TIH and tagged at 879'. Worked pipe to 960'. TOOH to 800'. Wait on orders. R/U cementing services. Pumped 15 bbls of fresh water, did not circulate. Mixed and pumped 20 bbl LCM pill. TOOH. Shutdown and secured well. Travel to field office for EOD meeting.

**4/27/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 186. Preformed LEL check. Performed rig inspection. Checked well pressures. Shutdown due to wind. Fixed cattle guard. Shutdown and secured well. Travel to field office for EOD meeting.

**4/28/24** - Arrived at Langan field office. Held safety meeting on goals and work to be completed for the day. Drove to CSA 186. Preformed LEL check. Performed rig inspection. Checked well pressures. TIH and tagged at 868'. R/U power swivel. Washed clean from 686' to 912'. Shut down do to saber sub. Installed new saber sub. L/D 4 joints. Shut in and secured well. Travel to field office for EOD meeting.

**4/29/24** - Arrived at Langan field office. Held safety meeting. Discussed near miss and ways to mitigate the incident. Travel to location. Held safety meeting on tripping pipe. TOOH. Continue safety standdown. Wait on orders from shell.

**4/30/24** - Arrived at Langan field office. Held safety meeting. Waited for the work string to be delivered. Performed spiral gas check. Transferred old work string to pipe yard. Unloaded new string. Spotted tubing trailer. Checked well pressures. TIH to 769'. Shutdown and secured well. Closed pipe rams. Left well open to pit. Traveled to field office for EOW meeting.

**5/1/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. P/U mill. TIH to 850'. R/U power swivel. Milled to 991'. R/U cementers. Pumped 20 bbl LCM slug. Let LCM set for 1 hr. Milled to 1294'. R/U cementers. Pumped 20 bbl LCM slug. TOOH. Shut down. Left well open to pits. Traveled to field office for EOW meeting.

# Technical Memorandum

Plug and Abandonment – End of Well Report  
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**5/2/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. TIH and tagged at 929'. Fell through bridge. Tagged again at 1022'. P/U power swivel. Began working through tight hole to 1427'. Hit a solid bridge. Could not mill any further. TOOH. Had to ream out from 1312' to 1076'. R/D swivel and TOOH. Traveled to field office for EOW meeting.

**5/3/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. R/U wireline services. RIH and tagged bridge at 792'. POOH. R/D wireline services. Wait on orders and procedure to move forward. Travel to next 4 locations to inspect well heads and discuss hot tapping. Traveled to field office for EOW meeting.

**5/4/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. Moved tubing trailer to a different location. Swapped out 2-3/8" tubing with 2-3/8" PH 6 tubing. Moved trailer back to location. Unloaded hot shot truck with BHA equipment. Prepped tallied BHA. R/U power swivel. Changed out saver sub. Shut down due to high winds. Traveled to field office for EOW meeting.

**5/5/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. Prepped and tallied 2-3/8" PH6 tubing and BHA. P/U 2-7/8" drill collars and BHA. TIH and tagged at 800'. R/U power swivel. Drilled from 800' to 1507'. Drilled through some tight spots. No returns at surface. R/D power swivel and TOOH. Secured well and equipment. Noticed well started to come around through the 5.5" casing. Made arrangements to get water to cement pit. Well flowed back approx. 150 bbls of produced water in 4 hours.

**5/6/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. Crew dug up cellar to replace BH with new valve. Waited for new orders. Travel to field office for EOD meeting.

**5/7/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. Spotted trailed with new 3" flow line. Replaced 2" line from well head to roll off boxes with 3" line. Held safety meeting on lifting, hoisting, and suspended loads. TIH and tagged at 911'. L/D collars due to amount of stands in the derrick. R/U swivel. Milled to 942'. Well began to partially circulate. Pumping 1 bpm returning 0.25 bpm. Pumped 40 bbls to circulate out gas. Milled to 1020'. Hit a solid bridge and lost circulation. TOOH. While tripping out of hole the casing below the BOP began to fail. Shut down operations. Travel to field office for EOD meeting.

**5/8/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. ND BOP. Break off bad collar. NU with new fittings. Prepped PH6 tubing. Secured well. Left open to pits. Travel to field office for EOD meeting.

**5/9/24 (Day)** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. P/U mill, collars, and PH6 tubing. TIH and tagged at 1041'. R/U power swivel. Milled to 1412'. Wait on Shell and BLM orders. TOOH. L/D work string. Switch from PH6 to EUE tubing. TIH to 1507'. Shutdown tower. Night shift to take over.

**LANGAN**



# Technical Memorandum

Plug and Abandonment – End of Well Report  
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**5/9/24 (Night)** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. R/U cementing services. Tested lines to 1800 psi. Pumped 5 bbls of fresh water. Pumped plug #1 from 1505' to 1182' with 25 sacks. R/D cementers. TOOH and L/D tubing. WOC 8 hours. TIH and tagged plug #1 at 1362'. R/U cementing services. Pumped 10 bbls of fresh water. Waited on orders. Shutdown tower. Held EOD safety meeting.

**5/10/24 (Day)** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. TIH to 1346'. R/U power swivel. Clean out to plug #1 at 1385'. Wait on orders. R/D swivel. R/U cementing services. Pumped plug #2 from 1385' to 743' with 50 sacks. R/D cementing services. TOOH. WOC. TIH and tagged at 1080'. R/U cementing services. Pumped plug #2 from 1080' to 736' with 25 sacks. TOOH. WOC. Held EOD safety meeting.

**5/10/24 (Night)** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. Tagged soft cement at 870'. Pushed through soft cement to 906' where hard cement was tagged. Attempted to circulate but tubing pressured up. TOOH to unclog tubing. TIH to 865' and circulated 14 bbls (full casing volume) with no returns. Discussed with BLM and received approval to pump 42 sack plug (49.5 cf) from 865' - 320'. Pumped plug #4 from 865' to 320'. TOOH. WOC. Shutdown. Held EOD safety meeting.

**5/11/24 (Day)** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. TIH tagged plug #4 at 800'. R/U cementing services. Pumped plug #5 from 800' to 323'. TOOH WOC. TIH and tagged plug #5 at 400'. R/U cementers. Circulated well. Shut 4.5" circulate attempted to circulate through BH but was unsuccessful. Shutdown and secured well. Wait on orders. Held EOD safety meeting.

**5/12/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Moved tubing trailer, lights, and prepped location for wireline pressure control equipment. R/U lubricator and wireline BOPs. R/U wireline services. RIG and tagged at 280'. POOH. R/D wireline services. Moved tubing trailer. TIH and tagged cement stringer at 323'. R/U power swivel. Cleaned out stringers to 400'. R/D swivel. TOOH. Shutdown and secured well. Held EOD safety meeting.

**5/13/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. P/U 3.25" mill. TIH to 400'. TOOH. Move tubing trailer and sport wireline pressure control equipment. R/U wireline services. RIH and perforated at 400'. Could not pull guns from hole. Pulled out of rope socket. Tied on the 4.5" casing. Pumped 2.5 bbls down the backside of the surface casing. Shutdown pump. TIH with tubing. Tagged at 333'. Wait on orders. Secured location. Held EOD safety meeting.

**5/14/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. TIH and tagged a 330'. R/U cementing services. Pumped plug 6 from 323' to 268'. TOOH WOC. TIH and tagged at 310'. Wait on shell to make decision on how to proceed. R/U cementing services. Continued pumping plug #6 from 310' to 258'. TOOH. Shutdown. Held EOD safety meeting.

**LANGAN**

# Technical Memorandum

Plug and Abandonment – End of Well Report  
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**5/15/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. TIH and tagged at 248' TOO. R/U cementing services. Attempted to pressure test well, test failed. Wait for orders. R/U wireline pressure control equipment. R/U wireline services. TIH and perforated at 248'. POOH. R/D wireline services. R/U cementing services. Shutdown due to lightning. Held EOD meeting.

**5/16/24** - Arrived at Langan field office. Held safety meeting. Traveled to location. Performed spiral gas check. Checked well pressures. Held safety meeting. R/U cementing services. Began pumping surface plug, pumped 0.5 bbl and circulated through the BH. Shutdown. Wait on orders. Pumped a sweep with green dye down 4.5". Circulation of the green dye required 10.5 bbls. Wait on orders. R/U cementing services. Pumped down 4.5" casing until cement circulated out the BH and annulus. N/D BOP. R/D equipment and unit. Travel to field office for EOD meeting.

**5/17/24** - Arrive at field office for meeting. Travel to location to begin removing all rig guidelines to have pull tested. Removed all hydraulic hoses showing wear to have replaced. Rig down derrick. Held EOD meeting.

Proposed Well Bore Diagram after Abandonment Operations

Well #: Cato San Andres Unit 186  
Status: Idle  
AP#: 30-005-20217

Date: 6/10/2024  
Field: Cato San Andres Unit  
Unit E, 1980 FNL, 660 FWL, Sec 04, T09S, R30E, Chaves County

Surface

Water Table Depth = 30'  
Pump cmt down 4.5" csg  
through perforations at 248'  
until cmt circulated out the  
BH & annulus

Left 15' of perforating  
equipmenting in well  
Tag at 330'

600 ft

Base of Red Beds = 943'  
Top of Rustler = 973'

1000 ft  
Bottom of Rustler = 1050'

Top of Yates = 1490'

2000 ft

2500 ft

3000 ft

A Zone = 3365'

3500 ft

8-5/8" csg set at 268'  
cmt w/200 sxs  
TOC = surface

Pump cmt plug F/310' -  
T/248 (tag)  
Perforated @400'  
Camera run found multiple  
holes in 4-1/2" csg  
F/345' - T/649'  
Pumped cement plug  
F/800' - T/400' (tag).

Pumped 42 sx cmt plug  
F/865' - T/800' (tag).

Pumped 25 sx cmt plug  
F/1080' - T/870' (tag).

Pumped 50 sx cmt plug  
F/1385' - T/1080' (tag).

Pumped 25 sx cmt plug  
F/1505' - T/1362' (tag). CO  
T/1385'.

Cleaned out well to 1505'.

ETOC = 1845' (Calculated)

Perforated F/3374' - T/3422'  
4-1/2" csg set at 3540'  
cmt w/400 sxs cmt  
ETOC = 1845'

PBD = 3436' (BP Set - 1/29/68)  
Original PBD = 3508'

3540'

Elevation	DF	above mat
	DF	4085'
	TD	3540'
Completion Date:	1/28/1968	
Directional Drilled:	Vertical	

Junk/Plugs		
Original drill well (1968)		
Drill 12-1/4" hole, 8-5/8" surface casing set at 268' cmt w/200 sxs, circulated cmt.		
Drilled 7-7/8" hole to 3540', 4-1/2" csg set at 3540', cmt w/400 sxs of cmt, ETOC = 1845'.		
Return well to production (1997)		
5/20/1997: Produced 2 bbl by using swab production method.		
Swab tested well (5/2009)		
5/21/2009: Swab 4 hrs, 1 bo, 8 bw		
5/22/2009: Swab 4 hrs, 1 bo, 6 bw		

Current Hole and Casing Information								
Hole	Casing	WPF	Top	Bottom	CF	Sacks	ETOC	Comments
12-1/4"	8-5/8"	24#	0'	268'		200	Surface	Calculated
7-7/8"	4-1/2"	9.5#/11.6#	0'	3540'		400	1845'	

Zones of Interest		
Formation	Top	Base
Water Table Depth	30'	
Base of Red Beds	243'	943'
Rustler	973'	1050'
Yates	1490'	1590'
Queen	2249	
Grayburg	2452	
Four mile Draw	2660	
San Andres	2662'	
SA Marker	3208	
A Zone (SA)*	3365'	
(SA)* = San Andres		

Perforations			
	Top	Bottom	Comments
San Andres	3374'	3422	Open



CSAU # 186

Shell

30-005-20217

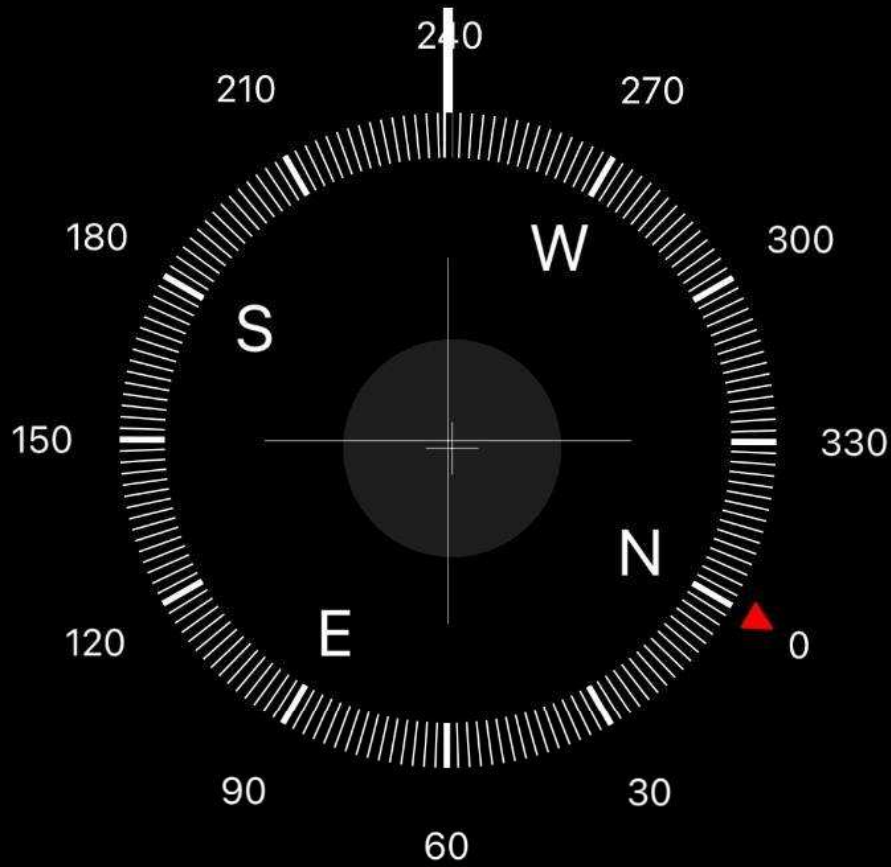
E-04-305

660 FWL



9:53

LTE



239° SW

33°33'50" N 103°53'33" W

4080 ft Elevation

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 364873

CONDITIONS

Operator: CANO PETRO OF NEW MEXICO, INC. 801 Cherry Street Fort Worth, TX 76102	OGRID: 248802
	Action Number: 364873
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
loren.diede	None	7/18/2024