

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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.***Carlsbad Field Office**  
**OCD Artesia**

Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 8. Well Name and No.

AVALON FEDERAL 1

## 2. Name of Operator

FASKEN OIL &amp; RANCH LIMITED

Contact: ADDISON LONG

E-Mail: addisonl@forl.com

## 9. API Well No.

30-015-21814-00-S1

## 3a. Address

6101 HOLIDAY HILL ROAD  
MIDLAND, TX 79707

## 3b. Phone No. (include area code)

Ph: 432-687-1777

## 10. Field and Pool, or Exploratory

BURTON FLAT

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 1 T21S R26E SESE 803FSL 350FEL

## 11. County or Parish, and State

EDDY COUNTY, NM

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

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |   |  |   |
|--|---|---|--|---|
| <input checked="" 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 type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <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 checked="" type="checkbox"/> Recomplete     | <input type="checkbox"/> Other          |
|  | <input type="checkbox"/> Change Plans         | <input 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 performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Fasken Oil and Ranch, Ltd. proposed to plug back and recompleate the Avalon Federal No. 1 from the Morrow zone to the Burton Flat; Strawn, West pool. Please see attached procedure and current and proposed wellbore diagrams.

A closed loop system will be used for the recompleation operations. A sundry notice has been submitted to the NMOCD for approval.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JAN 25 2016

RECEIVED  
SEE ATTACHED FOR  
CONDITIONS OF APPROVALSubmit C10Z  
accepted for record  
NMOCD  
JED 1/26/16

## 14. I hereby certify that the foregoing is true and correct.

Electronic Submission #320368 verified by the BLM Well Information System  
For FASKEN OIL & RANCH LIMITED, sent to the Carlsbad  
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/13/2015 (16JAS1136SE)

Name (Printed/Typed) ADDISON LONG

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/19/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Recommended Recompletion Procedure**  
**Avalon Federal No. 1**  
**350' FEL & 803' FSL**  
**Sec 1, T21S, R26E**  
**Eddy County, New Mexico**  
**AFE 3307**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
JAN 25 2016  
**RECEIVED**

**OBJECTIVE:** Treat Morrow and test. If Morrow uneconomic, recomplete to Strawn.

**API:** 30-15-21814

**Completed:** Rig released about 6-28-76. Completed 7-6-76.

**WELL DATA:**

|  |   |
|--|---|
| 13-3/8" 48#/ft H-40 casing:                                    | Set at 500' KB Cmt 230sx low density+150sx "C". Circ 35 sx to surf.   |
| 9-5/8" 32#H40, 36#K55 casing:                                  | Set at 2560' KB, Cmt 150sx. False set+250sx low density+200sx "C", 1" w/330sx "C". Circ 5 sx to surf.   |
| 5-1/2" 15.5#, 17#1.6# N-80&K55 casing (15.5# K55 1696'-5560'): | Set at 11,361' KB, Cmt 300 50/50 Poz 2% gel (14.2ppg)+350 sx "H" w/silica flour (15.7ppg). TOC 8750' by CBL.  |
| Perfs:   | Morrow (Active): 11046-52, 11028-32, 1006-42, 10988-98, 10976-86, 10842-76, 10724-30, 10715-22. Total +/-360 holes.<br>Morrow (Inactive, Sqzd 1/97): 11120-66, 10642-57, 1028-30, 10585-96, 10545-56.<br>Atoka (Inactive, Sqzd 1/97): 10416-25, total 36 holes. |
| Tubing:  | 2-7/8" SN (0.30'), +/-347 jts 2-7/8 EUE 8rd 6.5#/ft N-80 tbg (11,016'), EOT 11,027.3' KB.   |
| TD:  | 11,450'   |
| PBTD:  | 11,102' cmt retainer. (FC @ 11,279)   |
| Last Tubing Pull:  | 2-2-97  |
| Current status:  | Flowing 20 mcf/d from Morrow 10,715'-11,052'  |

1. Treat Morrow perfs 10,715'-11,052' via with Gas Plus surface tension reducer, 50/50 mixture of 7.5% HCL acid and methanol. Shut well in overnight.
2. Open well to sales. Flow and swab (if needed) back load and flow test.
3. If Morrow flow rate is uneconomic (less than 70 mcf/d), then proceed to recomplete to the Strawn.

**Recomplete to Strawn**

4. Test mast anchors.
5. Set test tank and lay flowline.
6. RUPU. Set matting board, pipe racks.
7. Blow down casing pressure.
8. RU pump truck and pump via tubing 35 bbls 3% KCL w/ clay stabilizer, corrosion inhibitor and oxygen scavenger.
9. NDWH, NU BOP.
10. POW with tubing with Scanalog inspection procedure, total +/-11016' 2-7/8" 6.5#/ft EUE 8rd N-80 tubing and SN.
11. RUWL lubricator and RIW w/ 4.75" gauge ring to 10,665' and set 5-1/2" 17# CIBP at +/-10,665' (maximum 50' above perfs). RDWL.
12. RIW with notched collar, SN, 2-7/8 EUE 8rd 6.5#/ft N-80 tubing to 10,665' and lightly tag CIBP.

13. RU pump truck and reverse circulate well with 3% Kcl water containing packer fluid and clay stabilizer. Test casing and plug to 500 psi.
14. RU cementers spotting 31 sx (250') class "H" cement (1.07 cuft/sk yield) above CIBP 10,665' in 5-1/2" 17#/ft csg (0.1305 cuft/ft) for a PBTD of 10,415'. WOC 2 hours and tag plug at 10,415'.
15. POW laying down 2-7/8" tubing.
16. Receive 10,000' 2-3/8" 4.7#/ft N80 EUE 8rd tubing with AB modified couplings (cost is \$4.72/ft less \$4.30/ft for all 2-7/8" yellow band determined with Scanalog).
17. Change out BOP rams to 2-3/8".
18. RIW with 2-3/8" wireline entry guide, 4' x2-3/8" EUE 8rd N-80 tubing sub, Arrowset IX 10k packer, TOSSD with 1.781" "F" profile nipple, picking up 2-3/8" EUE 8rd N-80 tubing to +/- 9870'.
19. RU pumping service and pickle tubing with 500 gal 15% HCL acid. Reverse load water to test tank.
20. ND BOP. NUWH for 2-3/8" tubing, setting packer in 12 points compression.
21. RU pump truck and conduct MIT test to the maximum casing treating pressure per BLM stipulations. Test casing to **1200 (NOTE: preliminary assumption of BLM stips)** psi (25% of 5-1/2" 15.50#/ft K55 burst 4810 psi) with chart recorder. Report results to BLM.
22. RUWL with 3000 psi lubricator and grease. Perforate Strawn limestone with 1-11/16" strip gun as follows:
  - 9,944' - 62' (17h, 1JSPF)
  - 10,012' - 18' ( 7h, 1JSPF)
  - 10,056' - 66' (11h, 1JSPF)
  - 10,122' - 46' (25h, 1JSPF)

60 total holes by Schlumberger Cement Bond Log dated 7-1-76 (Corrected collars are corrected to the Dresser Atlas Compensated Densilog/Compensated Neutron Log dated 6-26-76). POW, make sure all shots fired, and RDWL.

23. RU pumping service. Install tree saver. Trap 1200 psi on annulus. Acidize Strawn perms 9944'-10146' (56', 60 holes, 0.21" EHD) via 2-3/8" tubing with 2500 gal (45 gal/ft) 15% NEFE HCl containing 1 gpt Cl-22, 2 gpt NE-940, 2 gpt Inflo-150, 6 gpt F-270, 2 gpt FE-271 (recipe by formerly BJ Services). Flush with 40 bbls. 2% KCL water and drop 110 1.3 sp. gr. ball sealers for diversion (pump 5 bbls of acid and then drop 2 balls/bbl of acid thereafter). Rate 5-10 bpm at max pressure 5000 psi. RD stimulation company and tree saver.
24. Swab and flow back acid and load water to steel test tank and evaluate.
25. RDPU.
26. Return well to sales.

CWB

M:\Common\WELLFILE\Avalon 1 Federal No 1\Engineering\AvalonFed1 AFE 3307 pro Recompl Strwn 10-7-15.doc

SRF \_\_\_\_\_ CWB 10-15-15 \_\_\_\_\_ JWD \_\_\_\_\_

# Avalon Federal No. 1

Tops

**Current 2-2-97**

Operator **Fasken Oil and Ranch, Ltd.**

Location: 803' FSL and 350' FEL

Sec 1, T21S, R26E

Eddy County, NM

Compl.: 7/6/1976

API #: 30-015-21814

TD: 11,450'

PBTD: 11,242' (FC 11279')

Casing: **13-3/8" 48# H-40 @ 500'**

w/230sx low den cmt, 1/4#/sk celleflake, 5lb/sk Gilsonite,

2% CaCl<sub>2</sub>+150sx "C", Circ 35 sx, TOC surf.

Circ 35 sx, TOC surf.

**9-5/8" 32# H40,36# K55 @ 2560'**

w/150sx Folse w/2%CaCl<sub>2</sub>+250 sx low den cmt w/5 lb/sk Gilsonite,

1/4#/sk flocele+200 sx "C" 2% CaCl<sub>2</sub> w/no returns+1" 8 times

w/330 sx, TOC surf, circ 5sx **2nd Bone Spr sd 6866'**

**5-1/2" 15.5,17&20# K55&N-80 @ 11,361'**

w/300 sx 50/50 Pox, 2%gel, 0.59 D31, 0.69 D19, 2% R5 (14.2 ppg),

+350 sx "H" w/35% Silica flour,5% D31m0,6%D19,0.2%R5 (15.7ppg).

TOC 8750' by CBL.

Tubing: Asof 2-2-97

AJL: 2-7/8" SN 0.30

31.5' +/-347 jts 2-7/8" 6.5# EUE 8rd N-80 tbg 11016.00

11016.30

Below KB 11.00

EOT 11027.30

**3rd Bone Spr sd 8250'**

**Wolfcamp 8603'**

**Cisco 9,594'**

**Perfs: Atoka**

10/2/93 10416-25 (4spf) Sqzd 1/97

**Perfs: Morrow**

12/6/96 10545-56 Sqzd 1/97

12/6/96 10585-96 Sqzd 1/97

12/6/96 10628-30 Sqzd 1/97

12/6/96 10642-57 Sqzd 1/97

10715-22 Active

10/2/93 10724-30 (4spf) Active

9/6/77 10842-76 (reprf '78) Active

1/26/78 10976-86 (4spf) Active

1/26/78 10988-98 (4spf) Active

9/6/77 11006-42 (reprf '78) Active

7/6/76 11028-32 (8h) Active

7/6/76 11048-52 (12h)(reprf '78) Active

7/6/76 11120-66 (92h)(reprf '78) Sqzd 1/97

**Canyon 9,743'**

**Strawn 9,924'**

**Atoka 10,256'**

**Morrow Lime 10446'**

**Morrow B 10,896'**

**Barnett 10,874'**

Hole Sz 17-1/2" 346',12-1/4" 4260',7-7/8" 11,015'

Status: Oct 2015 Morrow producer

13-3/8" 48# H-40 @ 500'

Circ 35 sx, TOC surf.

95/8" 36# K55 Surf-860'

9-5/8" 32# H40 860'-2560'

9-5/8" 32# H40,36# K55 @ 2560'

Circ 5sx, TOC surf.

**Casing Detail:**

5-1/2" 17# N80 Surf-429'

5-1/2" 17# K55 429'-1696'

5-1/2" 15.5# K55 1696'-5560'

5-1/2" 17# K55 5560'-7603'

5-1/2" 17# N80 7603'-10737'

5-1/2" 20# N80 10737'-11361'

TOC 8750' by CBL.

**Sqzd Atoka & U. Morrow**

10416-10657'

**Active Morrow**

10715'-11052'

EOT 11027.3

Cmt Rel 11102' 6-28-93

11120-66 (92h)(reprf '78),Sqzd 1/97

PBTD: 11,242' (FC 11279')

5-1/2" 15.5,17&20# K55&N-80 @ 11,361'

TD: 11,450'

GL: 3211.79'

KB: 3228'

cwb

9-4-14

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# Avalon Federal No. 1

Operator **Fasken Oil and Ranch, Ltd.**

Location: 803' FSL and 350' FEL

Sec 1, T21S, R26E

Eddy County, NM

Compl.: 7/6/1976

API #: 30-015-21814

TD: 11,450'

PBTD: 11,242' (FC 11279')

Casing: **13-3/8" 48# H-40 @ 500'**

w/230sx low den cmt, 1/4#/sk celleflake, 5lb/sk Gilsonite,

2% CaCl<sub>2</sub>+150sx "C", Circ 35 sx, TOC surf.

Circ 35 sx, TOC surf.

**9-5/8" 32# H40,36# K55 @ 2560'**

w/150sx Folsie w/2%CaCl<sub>2</sub>+250 sx low den cmt w/5 lb/sk Gilsonite,

1/4#/sk flocele+200 sx "C" 2% CaCl<sub>2</sub> w/no returns+1" 8 times

w/330 sx, TOC surf, circ 5sx **2nd Bone Spr sd 6866'**

**5-1/2" 15.5,17&20# K55&N-80 @ 11,361'**

w/300 sx 50/50 Pox, 2%gel, 0.59 D31, 0.69 D19, 2% R5 (14.2 ppg),

+350 sx "H" w/35% Silica flour,5% D31m0,6%D19,0.2%R5 (15.7ppg).

TOC 8750' by CBL.

Prop Tbg WL entry guide on 4' 2-3/8" fbrgls sub 4.30

AJL: SS TOSSD w/1.781" X PN 0.70

31.5' 5-1/2" Arrowset 10K pkr w/TOSSD 1.781" I 6.50

+/-313jts 2-3/8" 4.7# EUE 8rd N-80 tbg 9859.50

Below KB 11.00

EOT 9870.50

**3rd Bone Spr sd 8250'**

## Proposed Strawn

9944'-62' 1jspf, 19h

10012'-18' 1jspf, 7h

10056'-66' 1jspf, 11h

10122'-46' 1jspf, 25

## Perfs: Atoka

10/2/93 10416-25 (4spf) Sqzd 1/97

## Perfs: Morrow

12/6/96 10545-56 Sqzd 1/97

12/6/96 10585-96 Sqzd 1/97

12/6/96 10628-30 Sqzd 1/97

12/6/96 10642-57 Sqzd 1/97

10715-22 Active

10/2/93 10724-30 (4spf) Active

9/6/77 10842-76 (reprf '78) Active

1/26/78 10976-86 (4spf) Active

1/26/78 10988-98 (4spf) Active

9/6/77 11006-42 (reprf '78) Active

7/6/76 11028-32 (8h) Active

7/6/76 11046-52 (12h)(reprf '78) Active

7/6/76 11120-66 (92h)(reprf '78) Sqzd 1/97

**Wolfcamp 8603'**

**Cisco 9,594'**

**Canyon 9,743'**

**Strawn 9,924'**

**Atoka 10,256'**

**Morrow Lime 10446'**

**Morrow Clas 10883'**

**Morrow B 10,896'**

**Barnett 10,874'**

Hole Sz 17-1/2" 500',12-1/4" 2560',8-3/4" 11,450'

Status: Oct 2015 Morrow producer

Proposed 10-6-15

GL: 3211.79'

KB: 3228'

13-3/8" 48# H-40 @ 500'

Circ 35 sx, TOC surf.

95/8" 36# K55 Surf-860'

9-5/8" 32# H40 860'-2560'

9-5/8" 32# H40,36# K55 @ 2560'

Circ 5sx, TOC surf.

## Casing Detail:

5-1/2" 17# N80 Surf-429'

5-1/2" 17# K55 429'-1696'

5-1/2" 15.5# K55 1696'-5560'

5-1/2" 17# K55 5560'-7603'

5-1/2" 17# N80 7603'-10737'

5-1/2" 20# N80 10737'-11361'

5-1/2" 15.5# K55 - yield 4810 psi

TOC 8750' by CBL.

EOT 9870.5

## Proposed Strawn

**9944'-10146'**

10416'-10657' Alk&U Mor Sqzd

CIBP 10665' w/250' cmt

10715'-11052' Morrow

Cmt Rel 11102' 6-28-93

11120-66 (92h)(reprf '78),Sqzd 1/97

PBTD: 11,242' (FC 11279')

5-1/2" 15.5,17&20# K55&N-80 @ 11,361'

TD: 11,450'

cwb

9-4-14

Avalon1Fed1\_WBD.xls

**Avalon Federal 1  
30-015-21814-00-S1  
Fasken Oil and Ranch, Ltd.  
January 15, 2016  
Conditions of Approval**

**Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.**

**Work to be completed by April 15, 2016.**

- 1. Operator shall set a CIBP at 10,665' (minimum of 50' above top most perforation) and place 250' Class H cement on top. Tag required.**
- 2. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**
- 3. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.**
- 4. Surface disturbance beyond the originally approved pad must have prior approval.**
- 5. Closed loop system required.**
- 6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.**
- 7. Operator to have H2S monitoring equipment on location.**
- 8. A minimum of a 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**
- 9. Subsequent sundry required detailing work done and completion report for the new formations. Operator to include well bore schematic of current well condition when work is complete.**

**10. See attached for general requirements.**

**TMAK 011516**

**BUREAU OF LAND MANAGEMENT**

**Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972**

**Permanent Abandonment of Production Zone Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from this approval.

**If you are unable to plug back the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**



7. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.