

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.

5. Lease Serial No.
NMNM13624

6. Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. AVALON FEDERAL 1
2. Name of Operator FASKEN OIL & RANCH LIMITED		9. API Well No. 30-015-21814-00-S1
3a. Address 6101 HOLIDAY HILL ROAD MIDLAND, TX 79707		10. Field and Pool or Exploratory Area BURTON FLAT
3b. Phone No. (include area code) Ph: 432-687-1777		11. County or Parish, State EDDY COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T21S R26E SESE 803FSL 350FEL		

12. CHECK THE 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"/> 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 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 recomplate 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 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 determined that the site is ready for final inspection.

Fasken Oil and Ranch, Ltd. plans to recomplate the above well to the Strawn. Attached is the procedure, current and proposed wellbore diagrams.

RECEIVED

MAY 23 2018

GC 5-24-18
Accepted for record - NMOCD

DISTRICT II-ARTESIA O.C.D.

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

**Electronic Submission #413159 verified by the BLM Well Information System
For FASKEN OIL & RANCH LIMITED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/04/2018 (18PP1588SE)**

Name (Printed/Typed) ADDISON GUELKER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/02/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Jonathon Shepard</u>	Title PETROLEUM ENGINEER	Date <u>05/16/2018</u>
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 <u>CFO</u>	

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

**Fasken Oil and Ranch, Ltd
Avalon Federal No. 1
350' FEL & 803' FSL
Sec 1, T21S, R26E
Eddy County, New Mexico
AFE 3307**

OBJECTIVE: Strawn Recompletion	
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 (16.5# 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 CBI.
Perfs:	Morrow (Active) 11046-52, 11028-32, 1098-42, 10988-98, 10978-86, 10842-78, 10724-30, 10715-22. Total +/- 360 holes. Morrow (Inactive, Sqzd 1/97) 11120-66, 10642-57, 1028-30, 10585- 96, 10545-56. Atoka (Inactive, Sqzd 1/97) 10416-25, total 36 holes.
Tubing:	2-7/8" SN (0.30) +/- 347' js 2-7/8" EUE 8rd 6.5#/ft N-80 (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:	SI AGO

1. Test mast anchors.
2. Set test tank and lay flowline.
3. RUPU. Set matting board, pipe racks.
4. Receive 10,000' 2-3/8" 4.7#/ft N80 EUE 8rd tubing with AB modified couplings.
5. Blow down casing pressure.
6. RU pump truck and pump via tubing 35 bbls 3% KCL w/ clay stabilizer, corrosion inhibitor and oxygen scavenger.
7. NDWH, NU BOP.
8. POW with +/-11016' 2-7/8" 6.5#/ft EUE 8rd N-80 tubing and SN.
9. 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.
10. RIW with notched collar, SN, 2-7/8 EUE 8rd 6.5#/ft N-80 tubing to 10,665' and lightly tag CIBP.
11. RU pump truck and reverse circulate well with 3% Kcl water containing packer fluid and clay stabilizer. Test casing and plug to 500 psi.
12. 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'.
13. POW laying down 2-7/8" tubing.
14. Change out BOP rams to 2-3/8".
15. 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'.

16. RU pumping service and pickle tubing with 500 gal 15% HCL acid. Reverse load water to test tank.
17. ND BOP. NUWH for 2-3/8" tubing, setting packer in 12 points compression.
18. RU pump truck and test casing to 1200 psi (25% of 5-1/2" 15.50#/ft K55 burst 4810 psi) with chart recorder. Report results to BLM.
19. 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.

20. 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. Flush with 40 bbls 2% KCL water and dropping ball sealers for diversion. Rate 5-10 bpm at max pressure 5000 psi. RD stimulation company and tree saver.
21. Swab and flow back acid and load water to steel test tank and evaluate.
22. RDPU.
23. Return well to sales.

Avalon Federal No. 1

Current 2-2-97

GL: 3211.79'

KB: 3228'

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% Cacl₂+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%Cacl₂+250 sx low den cmt w/5 lb/sk Gilsonite,

1/4#/sk flocele+200 sx "C" 2% CaCl₂ 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

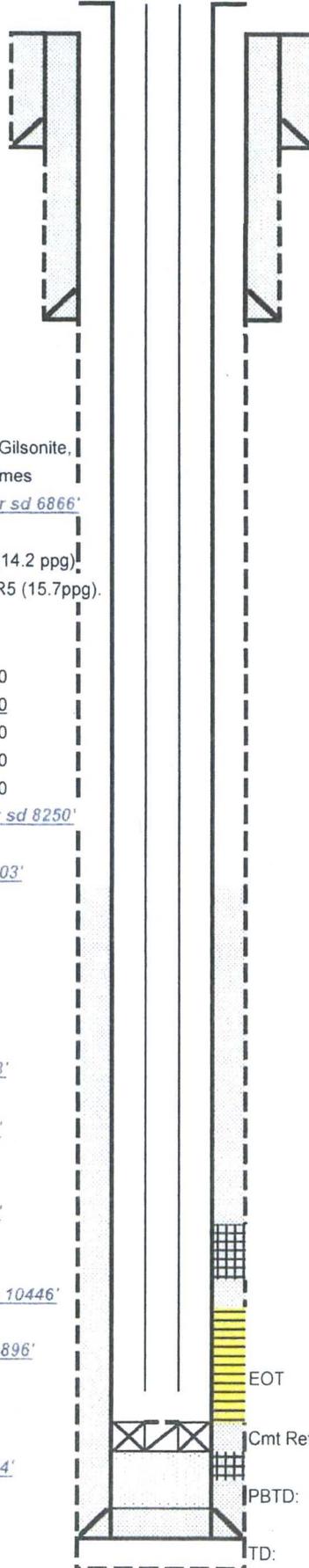
7/6/76 11046-52 (12h)(reprf '78) Active

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

Barnett 10,874'

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

Status: SI May 2016



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

Circ 35 sx, TOC surf.

9-5/8" 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 Rei 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

5-1-18

Avalon1Fed1_WBD.xls

Avalon Federal No. 1

Proposed 5-1-18

Operator **Fasken Oil and Ranch, Ltd.**
 Location: 803' FSL and 350' FEL
 Sec 1, T21S, R26E
 Eddy County, NM

GL: 3211 79'
 KB: 3228'

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% CaCl₂+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%CaCl₂+250 sx low den cmt w/5 lb/sk Gilsonite,
 1/4#/sk flocele+200 sx "C" 2% CaCl₂ 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" fbrgts 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	<u>9859.50</u>
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

Wolfcamp 8603'

Cisco 9,594'

TOC 8750' by CBL.

Perfs: Atoka

10/2/93 10416-25 (4spf) Sqzd 1/97 Canyon 9,743'

Perfs: Morrow

12/6/96 10545-56 Sqzd 1/97 Strawn 9,924'

12/6/96 10585-96 Sqzd 1/97 Atoka 10,256'

12/6/96 10628-30 Sqzd 1/97 Morrow Lime 10446'

12/6/96 10642-57 Sqzd 1/97 Morrow Clas 10883'

10715-22 Active Morrow B 10,896'

10/2/93 10724-30 (4spf) Active Barnett 10,874'

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

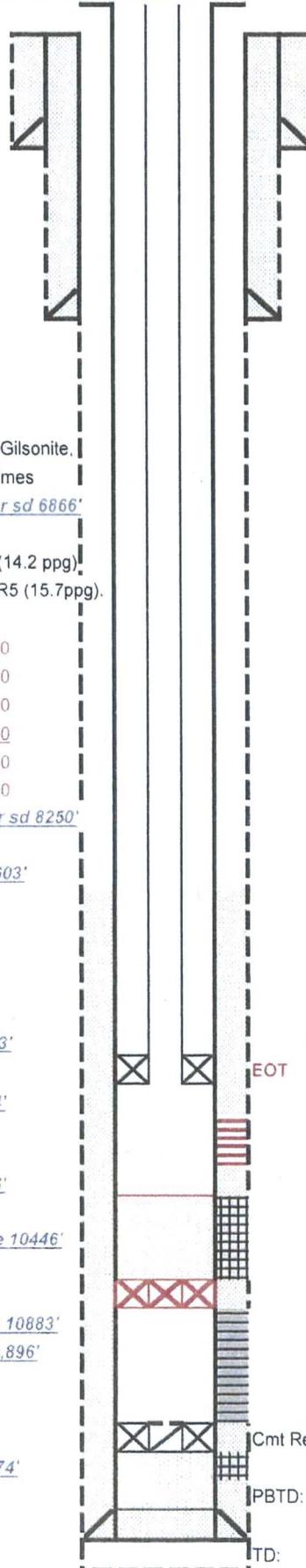
7/6/76 11028-32 (8h) Active

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

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

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

Status: SI May 2016



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

EOT 9870.5

Proposed Strawn
9944'-10146'

10416'-10657' Atk&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'

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. Plug back operations shall commence within ninety (90) days from this approval. **If you are unable to plug back the well by the 90th day provide this office, prior to the 90th 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. **Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.** 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.** If plugging back to a new zone submit a Completion Report, form 3160-4 with the Subsequent Report.**
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.**
8. **If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken: From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted**