

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, May 09, 2007 3:37 PM
To: Jimmy Carlile
Cc: Arrant, Bryan, EMNRD; Ezeanyim, Richard, EMNRD
Subject: SWD Application: Avalon State #1 API No. 30-015-20743

Hello Jimmy and Carl Brown:

I briefly reviewed your correspondence proposing to re-enter this well and inject via an open hole into the Bone Spring from 4000 to 8000 feet. It appears this is several miles from the Lake?

Since this will be into only one formation (although massive) and it is adequately deep and isolated from the Lake and the Reef (hopefully), it seems like you should fill out an application and send out the notice as required in Rule 701.B(2) - note this has changed from before - and send a copy to Bryan and to Santa Fe.

For the large open hole, we will likely put in a requirement that an injection survey be run initially and every 5 years. This will tell us all which intervals are taking fluid - and be good info for you also.

Regards,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

5/9/2007

FASKEN OIL AND RANCH, LTD.

303 WEST WALL AVENUE, SUITE 1800

MIDLAND, TEXAS 79701-5114
2007 MAY 2 PM 12:59

(432) 687-1777

jimmyc@forl.com

Jimmy D. Carlile
Regulatory Affairs Coordinator

April 30, 2007

Mr. Will Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Jones,

Re: Fasken Oil and Ranch, Ltd.
Potential Salt Water Disposal Application
Avalon State No. 1 – Dry Hole
API No. 30-015-20743

Fasken Oil and Ranch, Ltd. is reviewing the Avalon State No. 1 as a potential salt water disposal candidate. Please see the attached letter and data submitted to Bryan Arrant. Bryan referred us to you for these questions.

Do you see any potential problems with the proposed concept? I will be out of the office until Friday of this week. If you have any questions concerning this please call Carl Brown at (432) 687-1777.

Yours truly,



Jimmy D. Carlile
Regulatory Affairs Coordinator

FASKEN OIL AND RANCH, LTD.

303 WEST WALL AVENUE, SUITE 1800
MIDLAND, TEXAS 79701-5116

(432) 687-1777
jimmyc@forl.com

Jimmy D. Carlile
Regulatory Affairs Coordinator

April 25, 2007

Mr. Bryan Arrant
New Mexico Oil Conservation Division
1301 W. Grande Avenue
Artesia, NM 88210

Dear Mr. Arrant,

Re: Fasken Oil and Ranch, Ltd.
Potential Salt Water Disposal Application
Avalon State No. 1 Dry Hole
API No. 30-015-20743

Fasken Oil and Ranch, Ltd. is looking at the Avalon State No. 1 located at 1440' FSL and 1650' FWL of Section 7, T21S, R26E, Eddy County as a potential salt water disposal well. This dry hole was plugged and abandoned on October 24, 1972. We are proposing to re-enter this wellbore and drill out plugs to 8100'. We will set an additional plug to 8000'. Our plans are to run a string of injection casing into the top of the Bone Spring at 4000'. The Bone Spring interval from 4000' to 8000' would be open for injection.

As we prepare the injection application, do you see any problems with this concept? Please give me or Carl Brown (project engineer) a call at the letterhead number so we can discuss this. I will be out of the office Friday, April 27, and Tuesday through Thursday, May 1 - 3. Carl would be happy to visit with you on this.

Yours truly,



Jimmy D. Carlile
Regulatory Affairs Coordinator

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION RECEIVED

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

MAR 29 1973

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS ARTESIA, OFFICE

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Dry Hole	7. Unit Agreement Name
2. Name of Operator David Fasken ✓	8. Farm or Lease Name Avalon-State
3. Address of Operator 608 First National Bank Bldg., Midland, Texas 79701	9. Well No. 1
4. Location of Well UNIT LETTER K 1650 FEET FROM THE West LINE AND 1440 FEET FROM THE South LINE, SECTION 7 TOWNSHIP 21-S RANGE 26-E NMPM.	10. Field and Pool, or Wildcat Undesignated Morrow
15. Elevation (Show whether DF, RT, GR, etc.) 3305 GL, 3321 KB	12. County Eddy

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

1. Drilled to T.D. 10,800'.
2. Spotted cement plugs: 10,625'-10,725' w/42 sxs., 10,300'-10,400' w/42 sxs., 9,000'-8900' w/42 sxs., 8200'-8100' w/42 sxs., 3900'-4000' w/42 sxs., 2400'-2200' w/84 sxs., and 11 sxs. at surface.
3. Cut off casing.
4. Fill cellar.
5. Level location and pits.

Well plugged and abandoned October 24, 1972. Location is leveled and ready for inspection.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED James B. Henry TITLE Agent DATE Mar. 28, 1973

APPROVED BY [Signature] TITLE OIL AND GAS INSPECTOR DATE MAR 30 1973

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	6
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FILE	1
U.S.G.S.	2
LAND OFFICE	1
OPERATOR	

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG
RECEIVED

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.

K-6203

MAR 29 1973

1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> D.C.C.		7. Unit Agreement Name	
b. TYPE OF COMPLETION NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/> ARTESIA. OFFICE		8. Farm or Lease Name Avalon State	
2. Name of Operator David Fasken		9. Well No. 1	
3. Address of Operator 608 First National Bank Bldg., Midland, Texas 79701		10. Field and Pool, or Wildcat Undesignated Morrow	
4. Location of Well UNIT LETTER K LOCATED 1650 FEET FROM THE West LINE AND 1440 FEET FROM THE South LINE OF SEC. 7 TWP. 21S AGE. 26E NMPM		12. County Eddy	
15. Date Spudded 9-17-72	16. Date T.D. Reached 10-20-72	17. Date Compl. (Ready to Prod.) None F+A 10-24-72	18. Elevations (DF, RKB, RT, GR, etc.) 3305 GL, 3321 KB
19. Elev. Casinghead 3305	20. Total Depth 10,800'		
21. Plug Back T.D.		22. If Multiple Compl., How Many	23. Intervals Drilled By 0 - 10,800
24. Producing Interval(s), of this completion - Top, Bottom, Name None			25. Was Directional Survey Made No
26. Type Electric and Other Logs Run FDC/CNL/GR, Laterolog 9, Dip Meter			27. Was Well Cored No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE 9-5/8"	WEIGHT LB./FT. 40#	DEPTH SET 2327'	HOLE SIZE 17 1/2 & 11 1/2 1/4
CEMENTING RECORD 2350 sxs. + 698 cu. ft.		AMOUNT PULLED None	
29. LINER RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT
30. TUBING RECORD			
SIZE	DEPTH SET	PACKER SET	
31. Perforation Record (Interval, size and number) None		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 3-30-73	
33. PRODUCTION			
Date First Production None	Production Method (Flowing, gas lift, pumping - Size and type pump)		Well Status (Prod. or Shut-in) Permanently Abandoned
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.)
34. Disposition of Gas (Sold, used for fuel, vented, etc.)			Test Witnessed By
35. List of Attachments Summary of drill stem tests.			
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief. James B. Henry			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon <u>unidentified</u>	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>unidentified</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka <u>9763'</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss <u>10710'</u>	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand <u>2320</u>	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs <u>3940</u>	T. Wingate _____	T. _____
T. Wolfcamp <u>8100' Shale</u>	T. First B. Sprgs SS <u>5500'</u>	T. Chinle _____	T. _____
T. Penn. <u>8850'</u>	T. Third B. Sprgs. _____	T. Permian _____	T. _____
T. Cisco (Bough C) <u>unidentified</u>	T. SS-7598' _____	T. Penn. "A" _____	T. _____
	T/Morrow Clastics <u>10344'</u>		

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
2320'	3940'	1620	Sand and Shale				
3940'	5500'	1560	Lime				
5500'	5630'	130	Sand				
5630'	7550'	1920	Lime				
7550'	8100'	550	Sand				
8100'	8175'	75	Shale				
8175'	8250'	75	Lime				
8250'	8850'	600	Shale				
8850'	9763'	913	Lime w/Shale streaks				
9763'	10344'	581	Shale lime and chert				
10344'	10710'	366	Sand and shale				
10710'	10800'	90	Shale				

Avalon State No. 1

Operator: Fasken Oil and Ranch, Ltd.

Proposed SWD

GL: 3305'

KB: 3321'

Location: 1400' FSL and 1650' FWL
Sec 7, T21S, R26E
Eddy County, NM

Compl.: 10/24/1972 released rig
API #: 30-015-20743
PBD: 10300'
TD: 10,800'

Casing: 9-5/8" 40# J-55 @ 2327' KB
w/2350sx + 698 cuft concrete
TOC surf

Proposed 5-1/2" or 7" at 4000'

Proposed Injection Interval
Open Hole: 4000'-8000'

Proposed Tubing:
298- jt 2-3/8" EUE 8rd N-80 IPC tbg
Pkr set at 3950'

Proposed Plug:
42 sx 8000'-8100' proposed

Current plugs as fo 10-24-72:

42 sx 8100'-8200' existing
42 sx 8900'-9000' existing
42 sx 10300'-10400' existing
42 sx 10725'-10625' existing

Hole Sizes 17-1/2" 320'
12-1/4" 320'-2327"
8-3/4" 10,800'

Tops

Bone Spring 3940'

1st Bone Spr Sd 5500'

3rd Bone Spr Sd 7558'

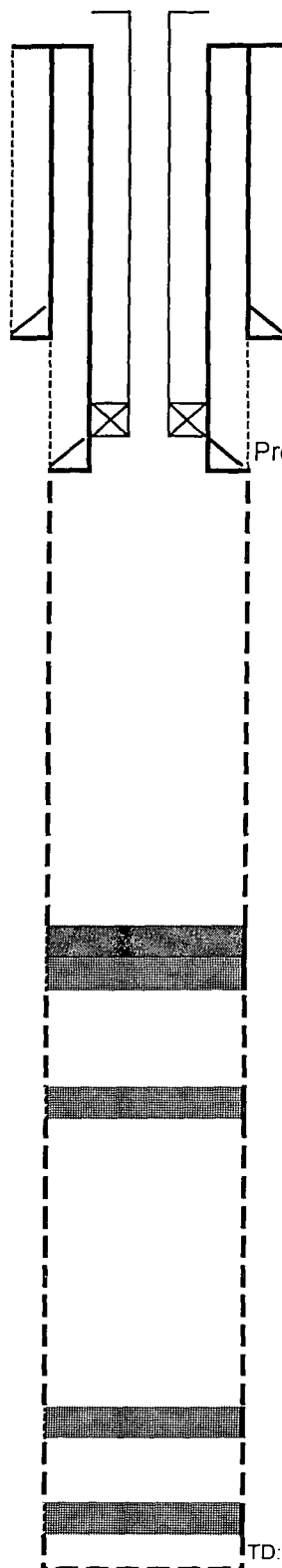
Wolfcamp 8020'

Penn Lime 8850'

Atoka 9765'

Morrow 10322'

Barnett 10708'



9-5/8" 40# J-55 @ 2327' KB
w/2350sx + 698 cuft concrete
TOC surf

Proposed 5-1/2" or 7" at 4000'

42 sx 8000'-8100' proposed
42 sx 8100'-8200' existing

42 sx 8900'-9000' existing

42 sx 10300'-10400' existing

42 sx 10725'-10625' existing

TD: 10,800'

cwb

4/23/2007

Avalon St wb diagram 4-23-07.xls