

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

November 30, 1995

Devon Energy Corporation
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Attn: Mr. E.L. Buttross, Jr.

Re: Recent Application for Authorization to Inject - East Shugart Wells

Dear Mr. Buttross:

Reference is made to your recent application to convert two wells to injection in your East Shugart Unit Waterflood Project. My staff has reviewed the application and we regret that approval, with the data submitted, cannot be granted at this time.

My staff identified several deficiencies in the Area of Review data as follows:

The list of wells within the Area of Review of both proposed injection wells totals 55, however, the tabulation of construction data covers 43 wells.

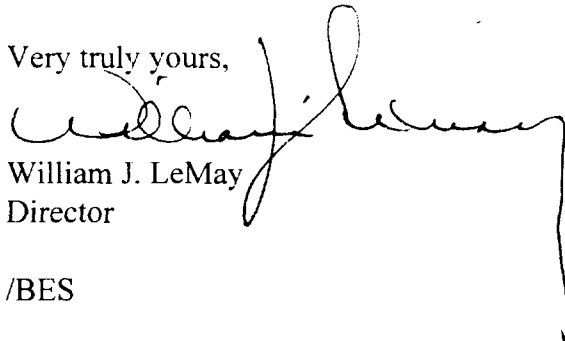
Of the wells tabulated, a random group was tabulated by my staff (copy enclosed). One well had no casing or cement information. One well had no record of a liner installed yet indicated perforations depths infer that there probably is a liner. Several wells indicated unacceptable tops of cement. In all cases, however, my staff used assumed hole sizes, so additional data may prove TOC's to be sufficient.

One well identified as the Keohane Federal No.1 on the tabulation, is shown on the Area of Review map to be the Boyd Federal No.1. The map shows the Keohane well to be in section 33 which does not fall within the area of review.

If these deficiencies can be addressed and remedied, your application can then be reconsidered.

If we may be of assistance, please feel free to contact Mr. Ben Stone at (505) 827-8186.

Very truly yours,



William J. LeMay
Director

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CALCULATED CEMENT TOPS for AREA OF REVIEW RANDOM GROUP

Proposed Injection Well:
Proposed Injection Zone:
Minimum Required TOC:

East Shugart No. 9
3404 to 3895
2904 Feet

Formation: Queen
Yield: 70%

Well Name	No.	Type	T.D.	Casing	Depth	Borehole	Cement	TOC	Remarks
Keohane Federal	#1	PROD	3960	8.625 7 4.5	955 2911 3925	12.25 10.5 6.25	50 sx 200 35	855 2,416 3,643	Top of 4.5" Liner @ 2900'
East Shugart Unit	#6	PROD	4292				sx	ERR ERR ERR	NO CASING OR CEMENT RECORD FILED
East Shugart Unit	#8	PROD	3935	8.625 7	850 3935	12.25 10.5	50 sx 100	750 3,688 ERR	
East Shugart Unit	#10	PROD	3933	8.625 7 4.5	925 3640 3925	12.25 10.5 6.25	100 sx 100 0	725 3,393 3,925	Top of 4.5" Liner @ 3590'

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CALCULATED CEMENT TOPS for AREA OF REVIEW RANDOM GROUP

Proposed Injection Well:
Proposed Injection Zone:
Minimum Required TOC:

East Shugart No. 24
3355 to 3897
* 2855 Feet

Formation: Queen
Yield: 70%

Well Name	No.	Type	T.D.	Casing	Depth	Borehole	Cement	TOC	Remarks
East Shugart Unit	#20	PROD	4088	10 6.625 5.5	903 3000 3327	12.25 8.75 8.75	25 sx 100 100	827 2,536 3,000	ASSUMED CEMENT VOLS. Top of 5.5" Liner @ 2900'
East Shugart Unit	#21	TAD	3982 PBTD	8.625 7	915 4000	12.25 10.5	50 sx 100	815 3,753 ERR	
McFadden Federal	#1	PROD	3850	8.625 7 LINER ?	900 2635	12.25 10.5	50 sx 100	800 2,388 ERR	No record of liner but perfs are indicated to a depth of 3806'



