

GOVERNOR
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State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. DRAWER DD
ARTESIA

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

January 6, 1969

N. M. Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Attention: Mr. Dan Nutter

Re: Application for SWD Permit

Dear Dan:

We are herewith forwarding two copies of Form C-108, which were sent to this office by Mr. George D. Riggs. One copy of the application has been retained by this office.

It might be well to point out that even though the produced water is to be put back in the producing formation, it will be going into a non-productive horizon below the pay. It is noted that the royalty owner, the U.S.G.S., has approved the proposal. Further, even though the application shows the water to be fit for stock, the volumes and quality would appear to necessitate its disposal underground.

Mr. Riggs is the only operator in the area and as the lease involved is producing less than 10 barrels of oil daily, I'm sure that he would appreciate it if the application could be approved without the necessity for a hearing.

Very truly yours,

OIL CONSERVATION COMMISSION

R. L. Stamets
Geologist

RLS/jw

Enclosure

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Dool. D. Riggs		ADDRESS Box 141, Carlsbad, New Mex. 88220			
WELL NAME Holtz-Potter-1		WELL NO. 5	FIELD Holtz-Potter-1		COUNTY Nddy
LOCATION UNIT LETTER <u>1</u> , WELL IS LOCATED <u>1650</u> FEET FROM THE <u>South</u> LINE AND <u>1650</u> FEET FROM THE <u>LINE</u> LINE, SECTION <u>5</u> TOWNSHIP <u>21 N</u> RANGE <u>27 E</u> NMPM.					
CASING AND TUBING DATA					
CASING	SIZE	DEPTH	PACKER	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING					
INTERMEDIATE					
LONG STRING	5 1/2"	513	10		
TUBING	3"	525	NAME, MODEL AND DEPTH OF TUBING PACKER Holtz Dodge Reg. 2 in 1 Packer #5486		
NAME OF PROPOSED INJECTION FORMATION Irron below oil pay			TOP OF FORMATION 537		BOTTOM OF FORMATION est. 570
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? tubing			PERFORATIONS OR OPEN HOLES? PROPOSED INTERVAL(S) OF INJECTION open hole 525 - 550		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? no		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? oil		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? no	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 550		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 525		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA none	
ANTICIPATED DAILY INJECTION VOLUME (BBL/DAY)	MINIMUM 500	MAXIMUM ?	OPEN OR CLOSED TYPE SYSTEM closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? gravity	APPROX. PRESSURE (PSI)
DO YOU OR NO WHETHER THE FOLLOWING WATERS ARE MINORLY USED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE?			WATER TO BE DISPOSED OF oil for stock		
			NATURAL WATER IN DISPOSAL ZONE poor		ARE WATER ANALYSES ATTACHED? yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Gerald Moore Box 696, Carlsbad, N.M. 88220 (grazing lease, Federal land)					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL none					
RECEIVED					
JAN 6 1969					
O. C. C. ARTESIA, OFFICE					
DOES ANY OF THIS APPLICATION DEPEND UPON ANY OF THE FOLLOWING?		SURFACE OWNER yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL none	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?		PLAT OF AREA yes		ELECTRICAL LOG not available	
				THE NEW MEXICO STATE ENGINEER not required	
				DIAGRAMMATIC SKETCH OF WELL yes	

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

(Signature)

(Title)

01-03-69

(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Drawer V
Artesia, New Mexico 88210

December 26, 1968

George D. Higgs
P.O. Drawer Box 116
Artesia, New Mexico 88210

Dear Sir:

Your Notice of Intention to convert and operate as a water disposal well your No. 5 Welch, on oil and gas lease New Mexico Oil 19, and located 1650/W and 1650/E Sec. 3, T. 21 S., R. 27 E., N.M.P.M., Lady County, New Mexico, by injecting the produced waters from wells on the above lease in the Cedar Hills pool, into the next porous zone below the producing zone, is hereby approved, subject to approval of the New Mexico Oil Conservation Commission and subject to the following:

1. If off-lease waters are to be included in this disposal system, a special land-use permit to operate this well as such must be secured from the Bureau of Land Management prior to disposing of any such waters. Inasmuch as the produced waters from the Cedar Hills pool are of low chloride content, disposal of waters into this well is restricted to waters that have no higher chloride content than the produced waters of the Cedar Hills pool.
2. Where applicable or required, right-of-way permits for pipe lines from other leases must be secured from the Bureau of Land Management prior to laying of any such gathering lines.
3. The usual Boundary Notice (Form 9-331 in quadruplicate) must be filed with this office prior to commencing any further workover, treatment, suspension of operation, or change of status of this well.
4. A monthly injection report (N.M.C.C.C. Form 6-120-A acceptable) must be submitted to this office in duplicate.

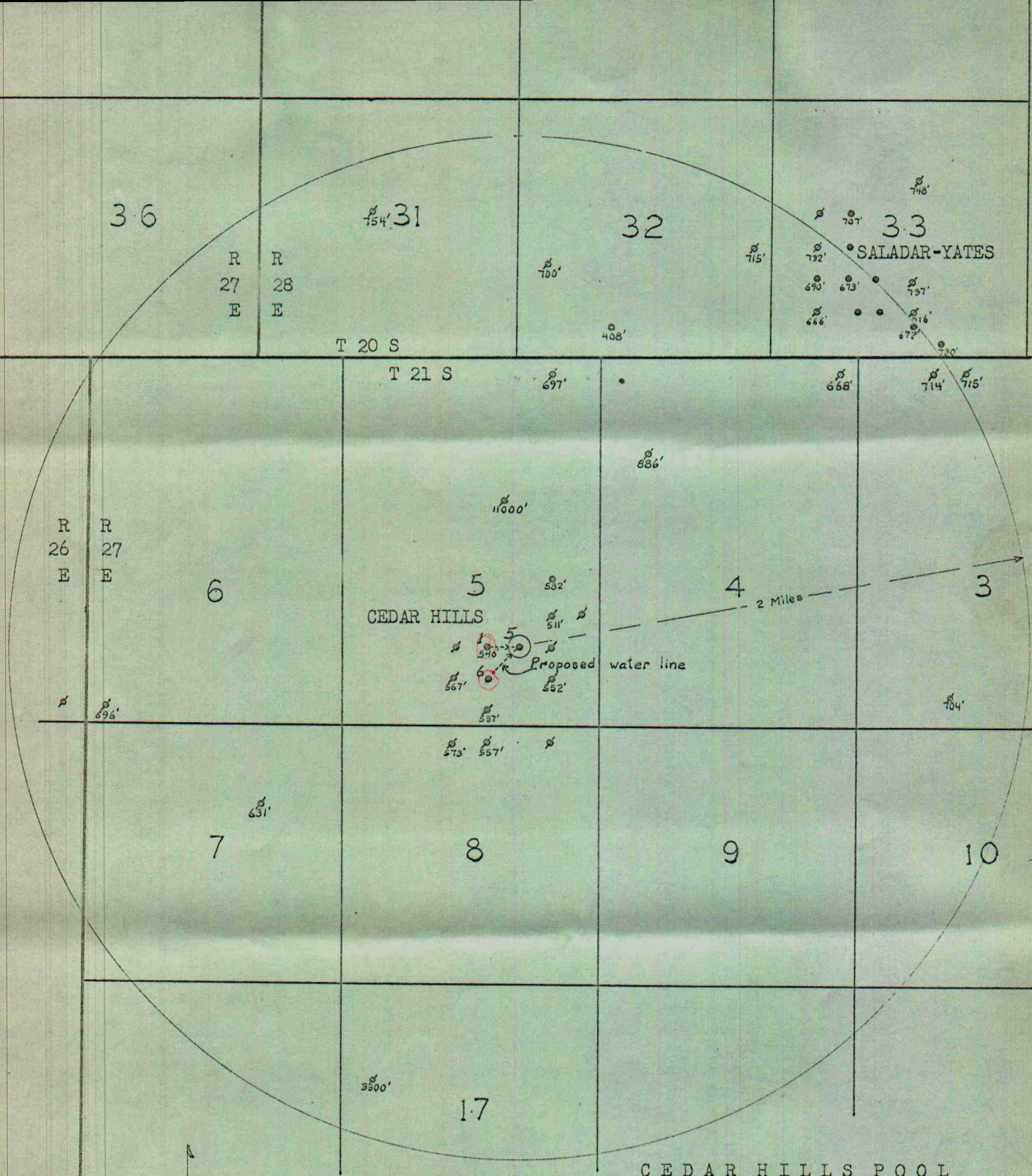
Sincerely yours,

Robert L. Deelman
Robert L. Deelman
Acting District Engineer

Enclosure

cc: Roswell
N.M.C.C.C. Artesia, Santa Fe

WHD:m



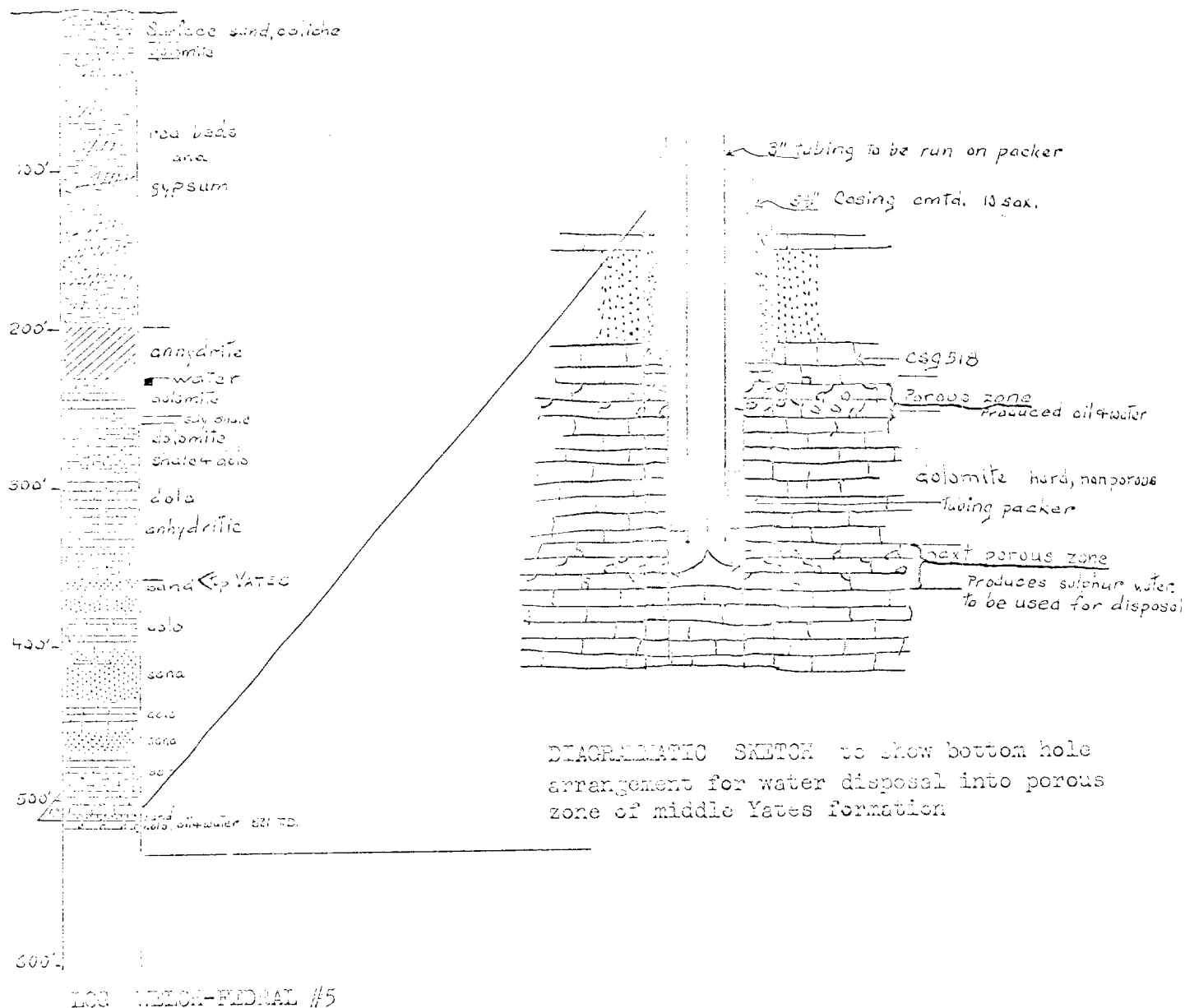
CEDAR HILLS POOL

Eddy Co. N.Mex.

Scale 2" = 1 mile

Ø Dry hole Ø Abandoned well

Geo. D. Riggs 19 Dec. 1968



The fluid to be disposed of is water produced with the oil from Welsh-Federal #1 and #6. It contains less than 1% of chlorides and slightly more than 1% of sulphates. It is not injurious to cattle, and birds and other wild life in the area drink it.



Figure 1 consists of nine line drawings arranged in a 3x3 grid, labeled (a) through (i). Each drawing represents a child's drawing of a person at a specific age. The drawings show a progression from simple, basic shapes to more detailed and expressive figures. (a) shows a simple stick figure with a circular head. (b) shows a more defined head and torso. (c) shows the addition of hair. (d) shows the addition of clothing. (e) shows the addition of facial features like eyes and a mouth. (f) shows a more complete figure with limbs. (g) shows a figure with a more expressive face. (h) shows a figure with more detailed clothing and features. (i) shows a highly detailed and expressive drawing of a person.

(continued)



Figure 1 consists of nine line drawings arranged in a 3x3 grid, labeled (a) through (i). Each drawing represents a child's drawing of a person at a specific age. The drawings show a progression from simple, basic shapes to more detailed and expressive figures. (a) shows a simple stick figure with a circular head. (b) shows a more defined head and torso. (c) shows the addition of hair. (d) shows the addition of clothing. (e) shows the addition of facial features like eyes and a mouth. (f) shows a more complete figure with limbs. (g) shows a figure with a more expressive face. (h) shows a figure with more detailed clothing and features. (i) shows a highly detailed and expressive drawing of a person.

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U.S. GOVERNMENT
PRINTING OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MINERAL INVESTIGATION
FORM INSTRUCTIONS ON REVERSE SIDE

Form approved.
Budget Bureau No. 42-11424.
5. LEASE DESIGNATION AND SERIAL NO.

SURVEY NOTICES AND REPORT ON WELLS

Use and use all form for the well or wells of _____, or for the back to a different reservoir.
OR "APPLICATION FOR PERMIT" and "PROPOSAL"

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FUEL AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

12. COUNTY OR PARISH 13. STATE

1. NAME OF WELL _____
2. DATE OF COMPLETION _____
3. NAME OF OPERATOR _____
4. NAME OF CONTRACTOR _____
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100. NAME OF WELL _____

16. Check appropriate box to indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
DRILL WATER METERING	PLUG OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREATMENT	MULTIPLE COMPLETION	FRACTURE TREATMENT	ALTERING CASING
SHUT-IN ON ACCIDENT	ABANDON*	SHUTTING OR RE-OPENING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	

(Note: Report results of multiple completion or Well Completion or Decompletion Report and Log form.)

17. Describe character of completion operations. Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any operations. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.*

This is a true and correct copy of the original as filed with the Bureau of Land Management (Bureau of Land Management)

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ILLEGIBLE

FILED
RECORDED
U.S. GEOLOGICAL SURVEY
BUREAU OF LAND MANAGEMENT

18. Through copy into the foregoing is true and correct

PRINTED BY _____ DATE _____

(Leave space for use of State office use)

APPROVED BY _____ DATE _____

CONTINUOUS OF APPROVAL, IF ANY: