

United States Department of the Interior

GEOLOGICAL SURVEY

Copy to
RECEIVED

P. O. Drawer 1157
Roswell, New Mexico 88201

AUG 20 1974

C. C. C.
ARTESIA, OFFICE

August 19, 1974

Mrs. Corinne Grace
Post Office Box 141
Carlsbad, New Mexico 88220

Dear Mrs. Grace:

Your Application for Permit to Drill well No. 1 Harlequin in the NW 1/4, sec. 30, T. 21 N., R. 31 E., S.M.P.M., Eddy County, New Mexico, lease New Mexico 0553906, to a depth of 4,550 feet to test the Delaware formation in the Potash Area, is hereby approved. This approval is rescinded if operations are not commenced within three months.

One copy of the Application is returned herewith. Please notify the District Engineer, Geological Survey, Post Office Drawer U, Artesia, New Mexico, 88210, in sufficient time for a representative to witness all cementing operations. The office phone number is Area Code 505-744-4041.

Sincerely yours,

(C. C. C.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

Attachment

cc:
Regional Manager, Denver
Mining Branch (2)
NMOCC-Artesia (w/2 cys Notice) ✓
Artesia (w/cy Notice)
Roswell (2) (w/cy Notice)
Chrono. File

(May 1963)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R14

30-015-21335

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK			
1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			
2. NAME OF OPERATOR Corinne Grace			
3. ADDRESS OF OPERATOR P.O. Box 1418, Carlsbad, New Mexico 88220			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1980 FSL & 660 FEL Section 30, T21S, R31E At proposed prod. zone Same as Above			
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* ARTESIA, OFFICE			
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		16. NO. OF ACRES IN LEASE 1116.14	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)		20. ROTARY OR CABLE TOOLS Cable Tool & Rotary	
23.		22. APPROX. DATE WORK WILL START* As soon as possible	

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	600'	Circulate
15"	11 3/4"	42 & 47	2800'	Circulate
9 1/2"	7 5/8"	26.4 & 29.7	4550'	

Propose to drill 20" hole, starting with cable tools, and continue until rotary rig is available or until 16" casing is set. Drill remainder of hole with rotary rig using natural mud.

If Delaware is productive, 7 5/8" casing will be set at TD and completion attempted.

BOP will be used below surface casing.

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Veronica L. Jones TITLE Agent DATE 7/19/74
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

CORINNE GRACE		Lease		Well No.	
I	Section 30	Range 21 South	Range 31 East	County EDDY	
Date of Well: 1980					
Distance from the South line and 660		Distance from the East line			
Producing Formation Deleware		Rock Wildcat		Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes ☐ No ☐ If answer is "yes," type of consolidation _____

If answer is "No," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of plat if necessary.) _____

If well will be assigned to the well until all interests have been consolidated by communitization, unitization, force-pooling, or otherwise (or until a non-standard unit), dedicating such interests, has been approved by the Commission. _____

CERTIFICATION

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

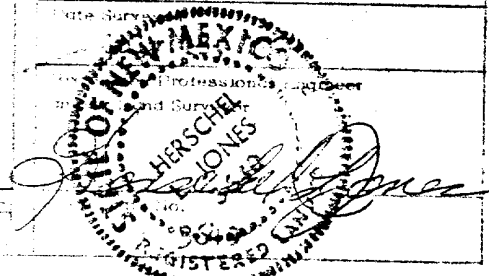
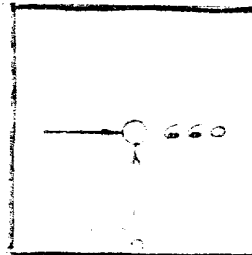
Name Quanta L. Jones
Position Agent

Company Corinne Grace

Date July 19, 1974

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Survey _____
Signature _____
Professional Engineer
and Surveyor
J. H. SCHERER
REGISTERED



DEVELOPMENT PLAN FOR GRACE WELL
SECTION 30, T21S, R31E
EDDY COUNTY, NEW MEXICO

DEVELOPMENT PLAN FOR GRACE WELL
SECTION 31, T21S, R31E
EDDY COUNTY, NEW MEXICO

1 Existing roads in the area consist of a ranch road which may need some improvement in local areas heading northeast for about 5 1/2 miles to a point about 3/4 of a mile south east of the proposed location

2 The only necessary access road will be 3/4 of a mile grading over hummocky sand dune terrain to the Harlequin #2 well and then 1 mile of grading over hummocky sand dune terrain directly north to the Harlequin #1 well The roads and pads will probably require Caliche

3 The well location survey plat is enclosed and was prepared by Herschel Jones, a registered professional engineer and land surveyor

4 N/A

5 Tank batteries and flow lines will be placed on location if necessary

6 It will be necessary to haul water to the location by truck

7 Sacks and other combustibles will be disposed of in the burn pit Other trash and waste will be buried in the mud pits upon well Completion

8 No camp will be used

9 No air strip will be used

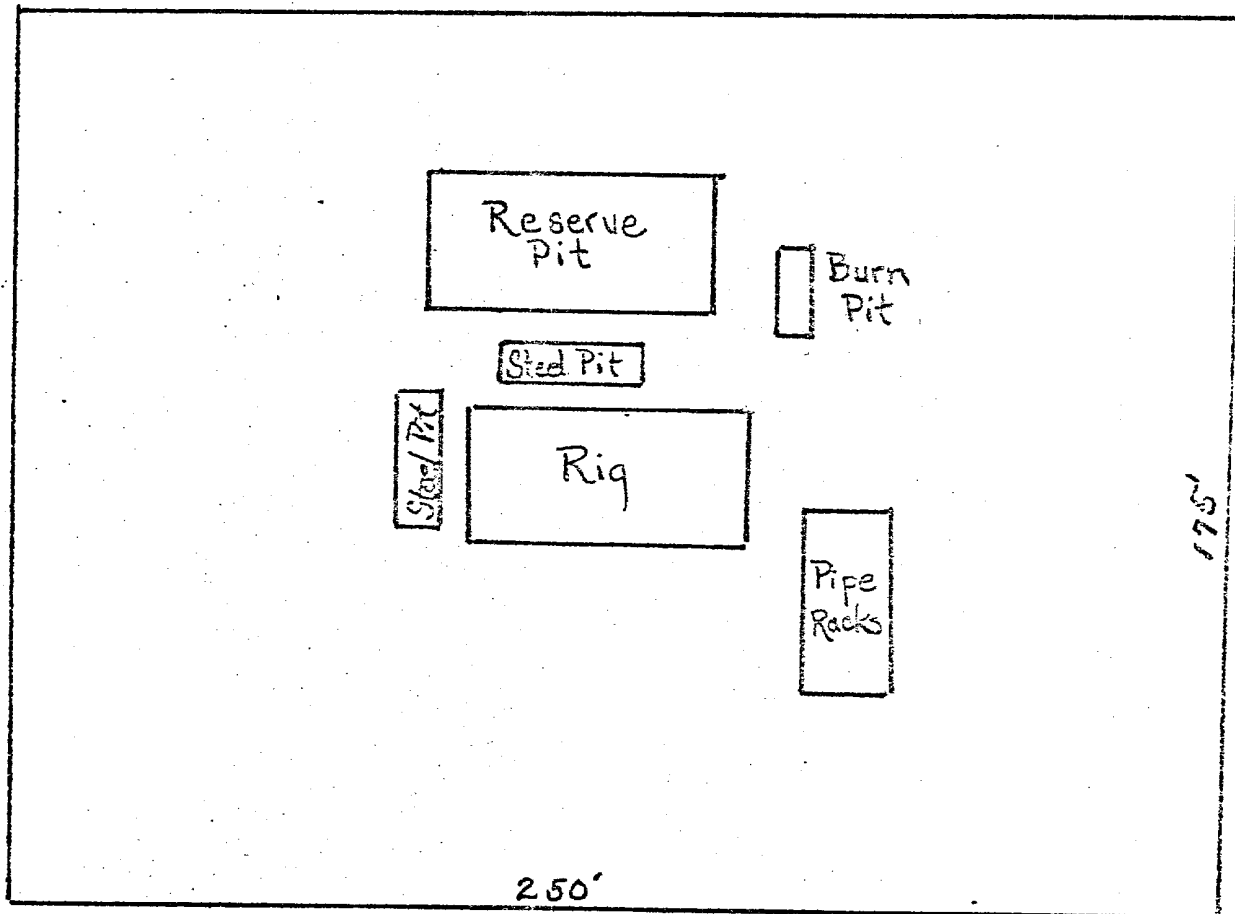
10 The accompanying layout plan shows rig location, mud pit, burn pit, and mud tanks

11 Pits will be filled and ground levelled and re-seeded according to U S G S Specifications

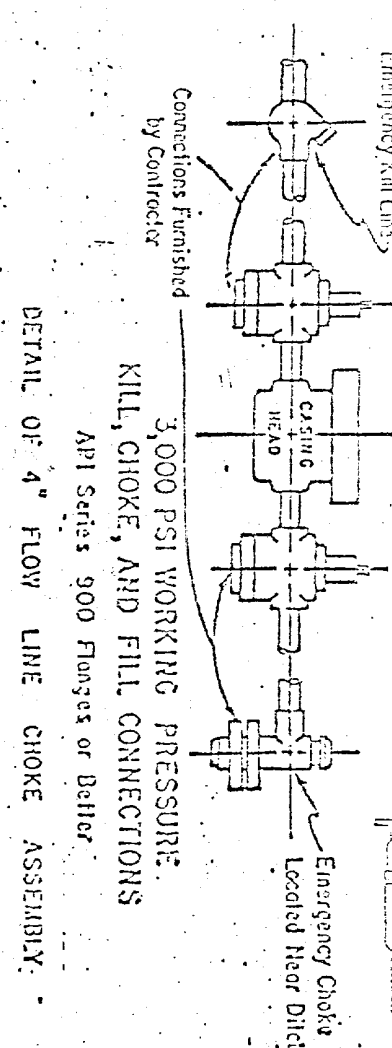
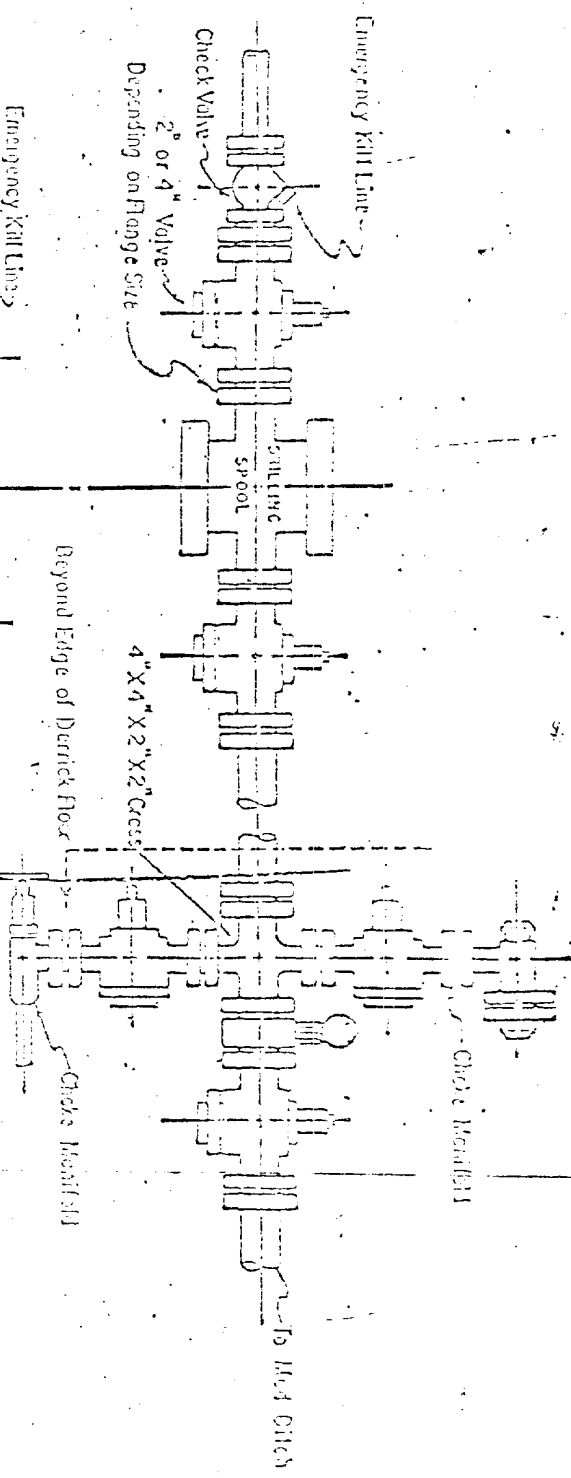
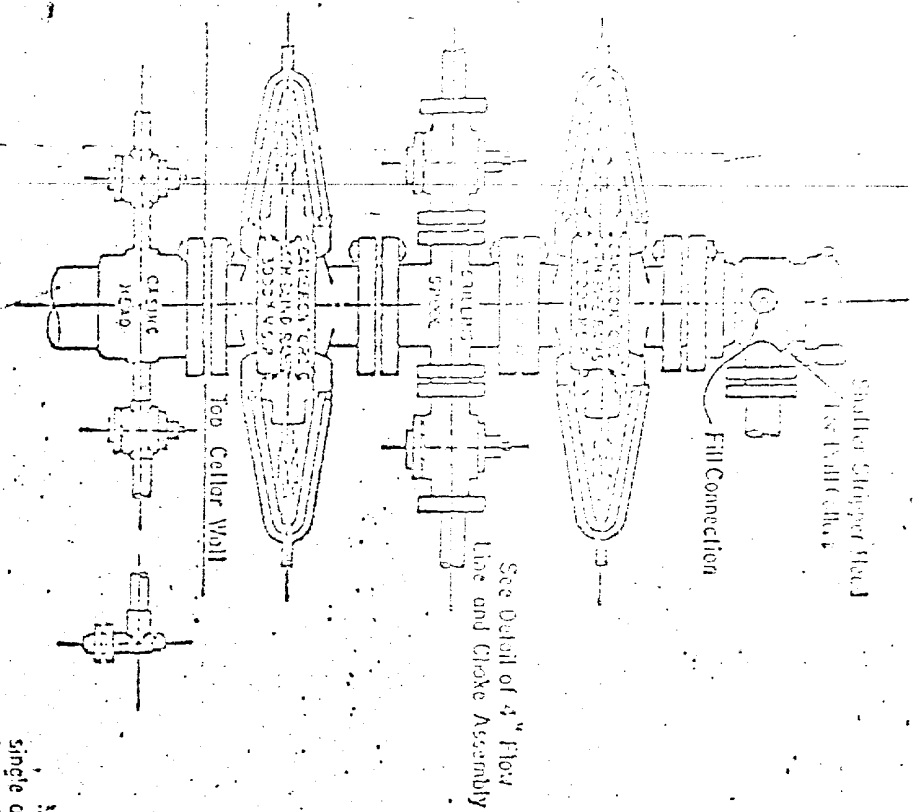
12 Access road will be levelled and re-seeded as required

13. Mud program will be mailed under seperate cover

14 Blowout preventer will be used below surface casing



Location Diagram
Michael P. Grace
Harlequin #1



Minimum assembly for 3000 PSI working pressure will consist of two preventers which may be Cameron GRC, Cameron Type F, single or double, Cameron Space-Sever or Shaffer Hydraulic, single or double. If double preventers are provided, the drilling spool shall be placed below the preventers and the blind rams placed in the upper preventer. With this arrangement it will not be necessary to provide a kill and choke line to Gull's casinghead housing. In lieu of the drilling spool, the flanged outlets of the double Shaffer, the Space-Sever or double F, if they are the correct size, and provided the preventers can be installed to meet Gull's requirements, may be used for the four-inch flow line and the two-inch kill line.

Size 12-inch preventers may be used for work down through 8-9/8-inch casing. Size 10-inch preventers may be used for work down through 7-3/8-inch casing. Size six-inch preventers are to be used for work through 7-inch and 5-1/2-inch casings.

Minimum operating equipment for the preventers will be: (1) An air operated pump and (2) An accumulator (s) with some means of detecting a fluid change. A closed fluid system is recommended. The closing manifold and remote closing manifold will have a separate key valve for each pressure operated device. Sufficient fluid capacity in the accumulator (s) shall be available to close all the pressure operated devices at the same time with 25 per cent reserve. Gull No. 551 Hydraulic oil shall be used as the operating fluid.

The four-inch flow line from the preventers shall be supported by a metal stand or reinforced concrete. All valves throughout the assembly shall be selected for operation in both gas and fluids. Sufficient substructure height is to be provided in the steel Gull shall request installation of a rotating type Bessol preventer. The preventers will be provided with stem extensions, universal joints, if needed, and operating wheels.

