



Copy to

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Drawer 1837
Roswell, New Mexico 88201

IN REPLY REFER TO: ✓

January 29, 1963

Mr. G. W. Strake
3300 Gulf Building
Houston, Texas

Re: Hackberry Deep Unit

Dear Mr. Strake:

Your Notice of Intention to Drill well No. 1 Hackberry Deep Unit (copy attached) in the SW1/4 sec. 31, T. 19 S., R. 31 E., N.M.P.M., Eddy County, New Mexico, lease New Mexico 06815-A, to a depth of 11,500' to test the Strawn formation, has been forwarded to this office for approval.

Pursuant to authority delegated to the Regional Oil and Gas Supervisor on May 10, 1962, 27 F.R. 4814, I hereby approve the Notice of Intention to Drill described in the foregoing.

Please notify the District Engineer, Geological Survey, Drawer U, Artesia, New Mexico, in sufficient time for a representative to witness all cementing operations.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

John A. Anderson
Regional Oil and Gas Supervisor

Attachment

cc:
Washington
Mining Branch (2)
NMDCC-Artesia (2) (w/2 cys Notice) ✓
Artesia
Roswell (2)

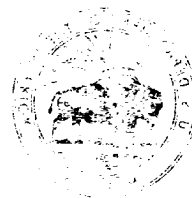
JAKnauf/hb

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FEB 9 1965

D. C. C.
ARTESIA, OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



TO THE DIRECTOR, GEOLOGICAL SURVEY,
WASHINGTON, D. C.

FROM THE CHIEF OF THE DISTRICT OF COLUMBIA,
WASHINGTON, D. C.

SUBJECT: [Illegible]

[Illegible text follows, appearing to be a letter or report.]

RECEIVED

1967

1967

X			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____
Lease No. NM-06815A
Unit "E"

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

_____ January 21 _____, 1965
Hackberry Deep Unit
Well No. 1 is located 1650 ft. from [N] line and 390 ft. from [W] line of sec. 31
SW/4 NW/4 of Sec. 31 19S 31E N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated Body New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation ~~of the derrick floor~~ above sea level is 5327 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

(See Attached Sheet)

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O. C. C.
ARTESIA, OFFICE

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JAN 22 1965
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company G. N. Strake
Address 3300 Gulf Building
Houston, Texas

By [Signature]
Title Gen. Supt.

DETAILS OF WORK

It is proposed to drill a well to test the Strawn Line formation at a maximum depth of 11,500 feet. The drilling will be done with cable tool and rotary tool equipment.

Surface casing will be set to the top of the Massive Salt at approximately 600 feet. This casing will be 13-3/8" O.D., H-40 or equivalent. The surface casing will be cemented with a volume sufficient to circulate the annular space to the surface of the ground.

Intermediate casing will be set to case off the expected loss of circulation zones and will be set at approximately 4200 feet. This casing will be 8-5/8" O.D., J-55 or equivalent. The intermediate casing will be cemented with a volume equivalent to 150% of the annular space from the bottom of the casing to the base of the last loss of circulation zone, and with a volume equivalent to 150% of the annular space from the top of the loss of circulation zones, or the base of the Yates Sand formation, to the top of the Massive Salt.

Provided commercial oil and/or gas production is obtained, production casing will be set to total depth, plug back total depth, or top of Pay Zone. The production casing will be 4-1/2" O.D., 13.5# or 5-1/2" O.D., 17#, N80 grade or equivalent. Production casing will be cemented with a volume equivalent to 150% of the annular space from the bottom of the casing to 200 feet above the top of the Pay Zone, or a minimum of 150 sacks, and preceded with mud-laden fluid.

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FEB 9 1965

O. C. C.
ARTESIA, OFFICE

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1. *Phragmites australis* (Cav.) Trin. ex Steud.

1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator who is responsible for the study. The investigator must first identify the problem and then determine the scope of the study. The next step is to design the study. This involves determining the methods to be used and the data to be collected. The third step is to collect the data. This is done by the investigator who is responsible for the study. The fourth step is to analyze the data. This is done by the investigator who is responsible for the study. The fifth step is to interpret the results. This is done by the investigator who is responsible for the study. The sixth step is to write the report. This is done by the investigator who is responsible for the study. The seventh step is to present the results. This is done by the investigator who is responsible for the study. The eighth step is to discuss the results. This is done by the investigator who is responsible for the study. The ninth step is to conclude the study. This is done by the investigator who is responsible for the study. The tenth step is to publish the results. This is done by the investigator who is responsible for the study.

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the situation.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what is to be achieved and provides a clear direction for the team.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable tasks and determining the resources needed to complete them.

4. The fourth step is to implement the plan. This involves putting the strategy into action and monitoring progress to ensure that the project is on track.

5. The final step is to evaluate the results of the project. This involves assessing the outcomes against the objectives and goals and identifying any lessons learned for future projects.

**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.

Operator G.W. Strake			Lease Hackberry Deep Unit		Well No. 1
Unit Letter E	Section 31	Township 19 South	Range 31 East	County Eddy	
Actual Footage Location of Well: 1650 feet from the North line and 990 feet from the West line					
Ground Level Elev. 3397	Producing Formation Strawn		Pool Undersaturated	Dedicated Acreage: 40 Acres	

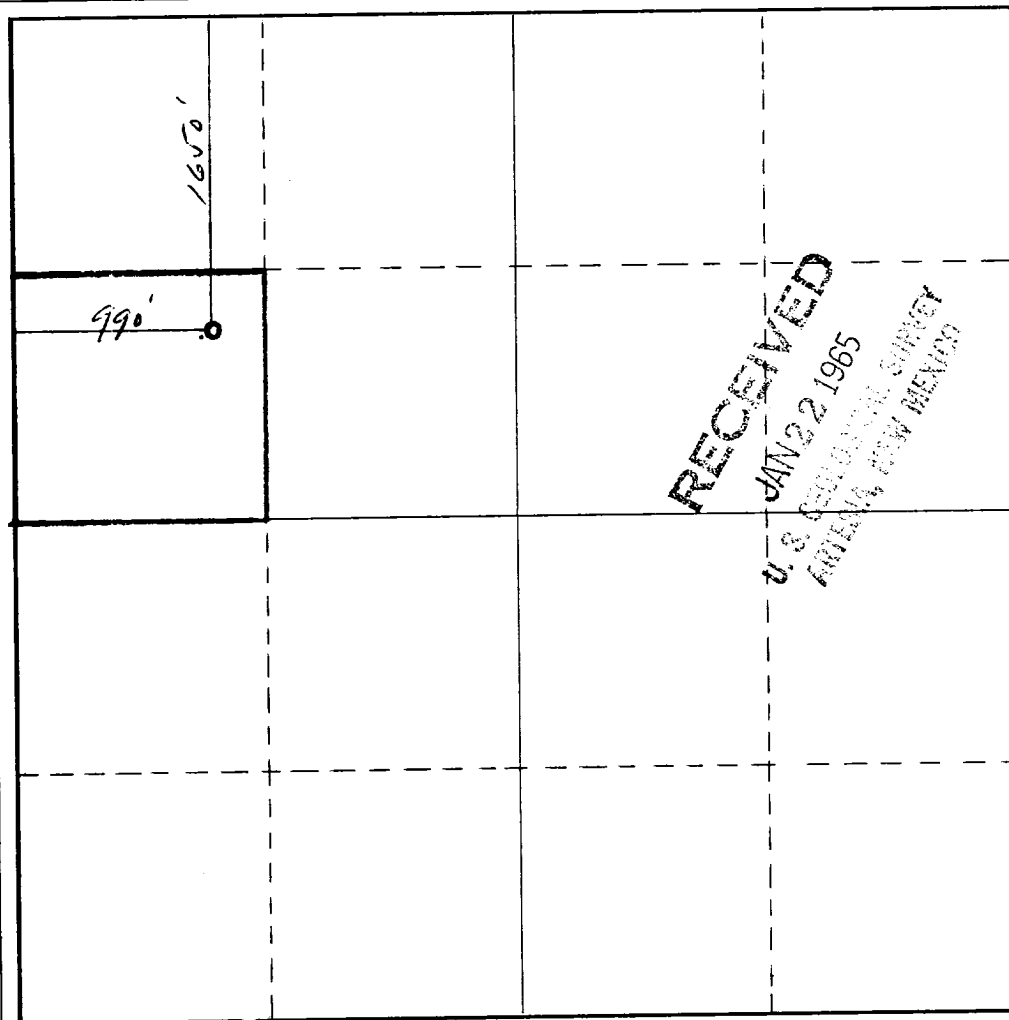
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is 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 _____ **FEB 9 1965**

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____ **O.E.C.**

ARTESIA, OFFICE

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating 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 _____
Position _____
Company _____
Date _____

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 Surveyed
January 21, 1965
Registered Professional Engineer
and/or Land Surveyor

Certificate No.

1502

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0