

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Re-entry Copy to J.F.

LEASE DESIGNATION AND SERIAL NO.

N.M. 015673-B

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐DEEPEN ☒PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONEMULTIPLE
ZONE

2. NAME OF OPERATOR

Ernest A. Hanson

SEP 11 1968

3. ADDRESS OF OPERATOR

P. O. Box 1515, Roswell, New Mexico

O. G. C.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1980' FSL & 660' FWL

ARTESIA, OFFICE

At proposed prod. zone

Sec. 20, T-17-S, R-27-E, N.M.P.M.
Eddy County, New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

6 miles east of Artesia, New Mexico

16. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

330'

17. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

1350'

20. ROTARY OR CABLE TOOLS

Cable Tools

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3350' Grd.

22. APPROX. DATE WORK WILL START*

Sept. 20, 1968

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10-3/4"	24#	243'	100 sx. circ. to surf.
10"	8-5/8"	24#	800'	Mudded (to be pulled)
8"	7"	20#	1350'	Tied to 10-3/4" csg.

It is proposed to re-enter, with cable tools, the captioned well and drill from the old total depth of 460' to a new approximate total depth of 1350' in order to test the Grayburg Formation. It is anticipated that 8-5/8" casing will be run and mudded-in at an approximate depth of 800' in order to have a dry hole while drilling and testing the Grayburg Formation. Prior to running a 7" casing production string, the 8-5/8" casing will be pulled and the 7" casing cemented back to tie into the 10-3/4" casing set at 243'. The production casing will be perforated and the formation treated as may be indicated by testing and electric logs.

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.

SIGNED

Harry F. Schuman

TITLE Exploration Manager

DATE 9-5-68

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL IF ANY:

SEP 12 1968
R. L. DELLINMIAN
ACTING DISTRICT ENGINEERTHIS APPROVAL IS RECORDED IN OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS
EXPIRES
DEC 10 1968

*See Instructions On Reverse Side

RECEIVED

SEP 9 1968

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

DECLARED WATER BASIN

DATE
CANNED
CASINO MUST BE CIRCULATEDNOTIFY USGS IN SUFFICIENT TIME TO
WITNESS CEMENTING THE 7" CASING

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-64

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

Operator Ernest A. Hanson			Lease Flood-Federal		Well No. 1
Unit Letter L	Section 20	Township 17 South	Range 27 East	County Eddy	
Actual Footage Location of Well: 1980 feet from the South line and 660 feet from the West line					
Ground Level Elev. 3350	Producing Formation Seven Rivers		Pool Wildcat	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

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

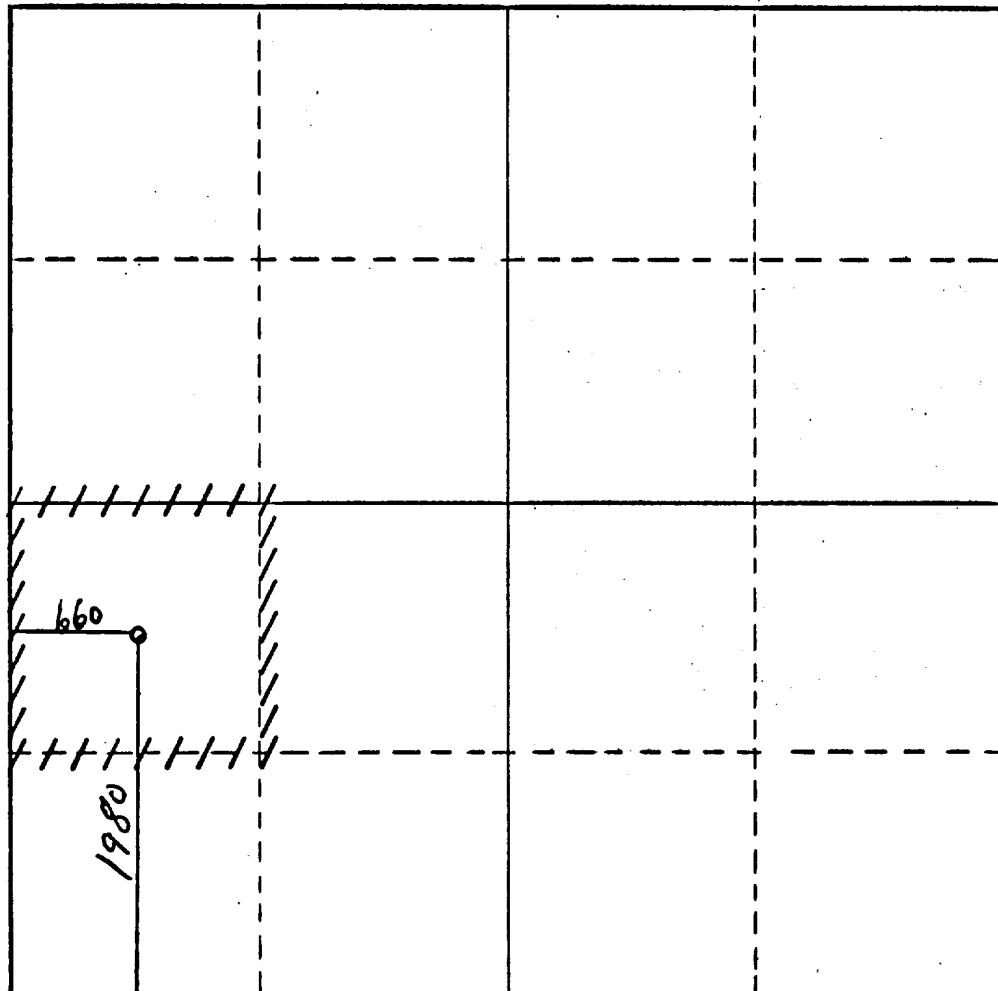
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *John A. Mott Jr.*
Position *Exploration Manager*
Company *Ernest A. Hanson*
Date *Sept. 20, 1966*

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.

September 20, 1966

Date Surveyed *Sept. 20, 1966*
John A. Mott Jr.
Registered Professional Engineer
and/or Land Surveyor
1502
Certificate No. **1502**



N. M. O. C. C. COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
SUBMIT IN TRIPlicate*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

N.M. 015673-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Copy to

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Flood Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 20, T-17-S, R-27-E

12. COUNTY OR PARISH 13. STATE

Eddy

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Dry Hole2. NAME OF OPERATOR
Ernest A. Hanson3. ADDRESS OF OPERATOR
P. O. Box 1515, Roswell, New Mexico4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface 1980' FSL & 660' FWL
Sec. 20, T-17-S, R-27-E, N.M.P.M.
Eddy County, New Mexico

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3350' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☒(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-8-66 Total Depth 460' anhydrite. The captioned well was plugged and abandoned in the following manner.

25 sx. cmt. plug set at total depth 460'.

50 sx. cmt. plug set in-and-out of 10 3/4" casing @ 243'.

25 sx. cmt. plug set @ surface and a regulation dry hole marker erected.

The location was then cleaned up and made ready for final inspection by the U.S.G.S.

RECEIVED

AUG 4 1967

O. C. C.
ARTESIA, OFFICERECEIVED
OCT 26 1966
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Explor. Manager

DATE Oct. 25, 1966

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED
AUG - 3 1967
R. L. BECKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

UNITED STATES

SUBMIT IN DUPLICATE*

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☐WORK OVER ☐DEEP-EN ☐PLUG BACK ☐DIFF. RESVR. ☐

Other _____

2. NAME OF OPERATOR

Ernest A. Hanson

3. ADDRESS OF OPERATOR

P. O. Box 1515, Roswell, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

1980' FSL & 660' FWL
Sec. 20, T-17-S, R-27-E, N.M.P.M.
Eddy County, New Mexico

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

9-30-66

16. DATE T.D. REACHED

10-7-66

17. DATE COMPL. (Ready to prod.)

10-8-66

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

3350' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

460' anhy.

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 - 460'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4"	24#	243'	15"	100 sx. circ.	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.*

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

DATE OF TEST

HOURS TESTED

CHOKE SIZE

PROD'N. FOR TEST PERIOD

OIL—BBL.

GAS—MCF

WATER—BBL.

GAS-OIL RATIO

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

Sample Description

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

Exploration Manager

DATE 10-25-66

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
	0	3	Top soil
	3	12	Red sand & gyp
	12	50	Gypsum
	50	85	Gypsum
	85	170	Gyp & red rock
	170	180	Gyp & red rock - 2 blrs. wtr. per hr.
	180	217	Gyp & anhydrite - s-i. inc. in water
	217	325	Anhydrite
	325	370	Anhy. & shale - water @ 350-360'
	370	395	Lime
	395	440	Anhy. - 6 blrs. WPH @ 420-425'
	440	445	Red rock - inc. wtr. @ 425'
	445	460	Anhydrite - inc. wtr. @ 450'
			<i>Tested 1 hr. @ 425' Rec 6 blrs water plus slight show oil</i>

NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Seven Rivers	180'	
Seven Rivers Day	412'	

N. M. O. G. COPY

EXAM. BY		DATE	COUNTY	STATE	COMPANY		WELL NO.										
Schram C. T.		10-7-66	Eddy	New Mexico	Ernest A. Hanson		1										
KIND OF SAMPLES		ELEV.	LOCATION	B	T	R	FARM										
		3352' D.E	1980' FSL. & 400' FWL	70	17.5	27-E	Flood Federal										
DEPTH	DOLOMITE		LIMESTONE		SHALE		SAND		CHERT		REMARKS AND ADDITIONAL LITHOLOGY		Fluor.	Rock	Por.		
	%	Description	%	Description	Anhy & Gyp	Poly	Salt	Red	Gry	Grn	Blk	Description				%	Description
243-255					100												
262					100												
270					100												
281	10	Bluish green			90											51. Dol	G
290					100												
300					100												
305					100												
315					100												
320					90			10									
342					90												
350					90												
360	40	Gry, warty			60												
370	50				50												
377	50	Brn.			70												
385	10	Gry, dense			90												
390					100												
400					50												
405	10	Gry, dense			30												
412					90												
425	40	Gry, dense			30												
435	10				90												
450	10	Gry, warty			80												
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ARTESIA, NEW MEXICO