

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions 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 OWDD

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other Temp. Abnd.

2. NAME OF OPERATOR

Ernest A. Hanson

3. ADDRESS OF OPERATOR

P. O. Box 1515, Roswell, New Mexico, 88201

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

At surface

1980' FSL & 660' FWL

At top prod. interval reported below

Sec. 20, T-17-S, R-27-E, N.M.P.M.

At total depth

Eddy County, New Mexico

14. PERMIT NO.

DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

N.M. 015673-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 BLOCK AND SURVEY OR AREA

Sec. 20-17S-27E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

15. DATE STUDDED

9-23-68

16. DATE T.D. REACHED

10-25-68

17. DATE COMPL. (Ready to prod.)

11-6-68

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

3352' DF

19. ELEV. CASINGHEAD

3350'

20. TOTAL DEPTH, MD & TVD

1290'

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

1280'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 - 1290'

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

None

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

None

27. WAS WELL CORED

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
8- 5/8"	24#	916'	10"	Mudded	916'
7"	20#	1280'	8"	575 sx. circ.	None

29. LINER RECORD

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

31. PERFORATION RECORD (Interval, size, and number)

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PRODUCTION

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

DEPTH INTERVAL (MD)

MATERIAL AND KIND OF MATERIAL USED

33.*

DATE FIRST PRODUCTION

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

WELL STATUS (Producing or shut-in)

Temp. Abnd.

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 and daily drilling report

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

11-11-68

*(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:			38. GEOLOGIC MARKERS		
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			NAME	TOP	
FORMATION	TOP	BOTTOM		MEAS. DEPTH	TRUE VERT. DEPTH
			Seven Rivers Queen San Andres	180' 665' 1275'	

DAILY DRILLING REPORT

Ernest A. Hanson - #1 Flood Federal
1980' FSL & 660' FWL
Sec. 20, T-17-S, R-27-E, N.M.P.M.
Eddy County, New Mexico

Date	Depth	Lithology	Remarks
9-22-68			Cortez Drilg. Co. moved in cable tool rig. Rigging up.
9-23-68	460 475 480	Old total depth Gray lime Shale	Cleaned out old hole to 460'
9-24-68	495 530 535	Lime Anhy. & red rock Anhydrite	
9-25-68	560 575	Anhy. & gyp Anhydrite	
9-26-68	575 600 620	Red rock & gyp Red shale & gyp Anhydrite	
9-27-68	650 665	Anhy. & gyp Anhydrite	
9-28-68	680 695 710	Anhydrite Anhy. & sand Anhydrite	
9-29-68	725 740 755	Anhy. & red beds Anhy., shale & sand Anhy. & red beds	
9-30-68	765 770 785 800	Brown lime Anhy. & gyp Sand & lime Anhy. & red beds	
10-1-68	810 825 840	Anhy. & shale Red rock & shells Red rock & shale	
10-2-68	855 885	Red beds & gyp Red beds & shells	
10-3-68	900 910 916	Blue sand & shale Sand & anhy. Lime	
10-4-68	916 940	Sandy lime	Ran 8 5/8" @ 916'
10-5-68	955 970 980	Sandy shale Red sand Red beds	
10-6-68	1005 1030 1055	Red sand Red sand & gyp Sandy red rock	Test 1/2 blr. wtr. per hour HFW @ 1005-1030'.
10-7-68	1070 1075	Red rock & sand Lime	
10-8-68	1080 1095	Red shale Lime	

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Date	Depth	Lithology	Remarks
10-09-68	1110 1130 1150	Lime, red rock & gyp Red rock & gyp Shale	Worked pipe - would not go. Water did not shut-off.
10-10-68	1160 1165	Anhy & sandy shale Gray lime	Prep. to underream 7" casing.
10-11-68	1165		Underreaming hole.
10-12-68	1165		Underreaming and lowered 7" to 1098'.
10-13-68	1165		Underreaming & lowered 7" to 1153.
10-14-68	1165 1180 1195	Anhydrite Lime	Underreaming & lowered 7" to 1159'.
10-15-68	1205 1215 1233	Anhy. & lime Sand & anhy. Anhydrite	Bailed hole dry. Rainbow on water. Tested 2 1/2 hrs., hole dry.
10-16-68	1233		Shut down for repairs
10-17-68	1240 1245	Lime Sand	Sulphur water @ 1240-1245'.
10-18-65	1257 1273 1279	Sand & lime Sand Lime	800' water in hole.
10-19-68	1279		Fishing for tools.
10-20-68	1279		Fishing for tools.
10-21-68	1279		Fishing for tools.
10-22-68	1279		Fished out tools. Shut down for repairs.
10-23-68	1279		Shut down for repairs
10-24-68	1279 1283	Lime	Finished repairs to clutch.
10-25-68	1290	Lime	Total Depth. Prep. to underream.
10-26-68	1290		Underreaming at 1185'.
10-27-68	1290		Underreaming to 1210'. Fishing for underreamer lug.
10-28-68	1290		Fishing.
10-29-68	1290		Fishing.
10-30-68	1290		Underreaming.
10-31-68	1290		Underreaming. Lowered 7" to 1219'.
11-01-68	1290		Underreaming. Lowered 7" to 1252'.
11-02-68	1290		Underreaming. Lowered 7" to 1298'. Pulled 7" up & set on spider.
11-03-68	1290		Had 7" jt. cut & threaded. Pipe went 4'. Cannot pull or get it to go down. Got HOWCO to pressure up on 7". Haven't done any good.

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Date	Depth	Lithology	Remarks
11-04-68	1290		Pulling on 7" casing & circ. pipe w/HOWCO. Couldn't move pipe. Pull 916' of 8 5/8" casing.
11-05-68	1290		Cemented 7" @ 1280 w/475 sx.
11-06-68	1290		Cement did not circulate. Ran 1" along side of 7" and circ. w/100 sx.
11-08-68			Moving off rig.

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EXAM. BY <i>Schram</i>		DATE <i>Oct. 1968</i>		COUNTY <i>Eddy</i>		STATE <i>New Mexico</i>		COMPANY <i>Ernest A. Hanson</i>		WELL NO. <i>1</i>										
KIND OF SAMPLE <i>Core Tool</i>		ELEV. <i>3352' DF</i>		LOCATION <i>1980' FSL & 660' FNL</i>		FARM <i>Flood Federal</i>														
DOLOMITE		LIMESTONE		EVAPORITES		SHALE		SAND		CHERT										
DEPTH	%	Description	%	Description	Any & Gyp	Poly	Salt	Red	Gry	Gm	Blk	Description	%	Description	%	Description	REMARKS AND ADDITIONAL LITHOLOGY	Floor.	Rock	Por.
<i>445-450</i>	<i>100</i>	<i>Wht. sdy</i>							<i>10</i>								<i>Dolg. w/HENL; smpl. very poor</i>			
<i>455</i>	<i>30</i>																<i>Red sand caving</i>			
<i>465</i>																				
<i>475</i>																				
<i>485</i>																				
<i>495</i>																				
<i>495-505</i>																				
<i>515</i>																				
<i>525</i>									<i>10</i>											
<i>536</i>																				
<i>534</i>	<i>10</i>	<i>Wht-gry</i>																		
<i>539</i>	<i>20</i>																			
<i>546</i>	<i>40</i>																			
<i>555</i>	<i>20</i>																			
<i>566</i>	<i>10</i>																			
<i>572</i>	<i>10</i>								<i>10</i>											
<i>584</i>	<i>75</i>																			
<i>598</i>																				
<i>598-600</i>																				
<i>612</i>	<i>10</i>	<i>Gr</i>																		
<i>615</i>	<i>10</i>																			
<i>620</i>	<i>20</i>																			
<i>629</i>	<i>10</i>																			
<i>636</i>	<i>30</i>	<i>lt. gry, shly, flite</i>																		
<i>642</i>	<i>30</i>																			
<i>656</i>	<i>20</i>																			
<i>661</i>	<i>10</i>																			
<i>665</i>	<i>10</i>																			
<i>675</i>	<i>10</i>																			
<i>683</i>																				

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Fluorescence — S=Slight — F=Fair — G=Good — M=Mineral
Fracture — F=Fracture — I=Interstitial — V=Vascular — G=Good — F=Fair — S=Slight

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for the exclusive use of

Fluorescence — S=Slight — F=Fair — G=Good — M=Mineral
C=Coal — V=Vascular — I=Interstitial — F=Fracture

EXAM. BY		DATE		COUNTY		STATE		COMPANY		WELL NO.						
KIND OF SAMPLES		ELEV.		LOCATION		S		T		N						
DEPTH	DOLOMITE		LIMESTONE		EVAPORITES		SHALE		BAND		CHERT		REMARKS AND ADDITIONAL LITHOLOGY	Fluor.	Rock	Per.
	%	Description	%	Description	Any & Gyp	Pol	Salt	Red	Gry	Gn	Blk	Description				
Page #2																
685-693	10	64y, shly								10	64y. - 20% sand					
700	10	TI								50	50					
705	10									30	20					
710	10									30	10					
718	10									10	TI					
724	10									30	10					
729	10									10	50					
738	10									10	10					
747	10									10	10					
755	10									TI	10					
761	10									10	20					
765	30									TI	10					
768	80									TI	10					
778	80									10	Rd. f-m gr.					
776	80									TI	10					
782	40									10						
789	20									10						
796	10									20						
796-802	10									20	TI					
805	10									20	TI					
810	10									20						
817	10									60						
825	10									70						
828	10									40						
834	10									40						
840	10									20						
848	10									30						
847	10									30						
852	10									20	10% grg					
859	10									50	10					
859	10									50						

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1- FQ4

EXAM. BY		DATE		COUNTY		STATE		COMPANY		WELL NO.							
KIND OF SAMPLES		ELEV.		LOCATION		S		T		R							
DEPTH	DOLOMITE		LIMESTONE		EVAPORITES		SHALE		SAND		CHERT		REMARKS AND ADDITIONAL LITHOLOGY	FLOOR.	ROCK	PER.	
	%	Description	%	Description	Anhy & Gyp	Poly	Salt	Red	Gry	Gm	Blk	Description					%
1061-1067	50	Tan-pink; EXL			40								30	Rd; f. gr			
1071	20				10								70				
1075	50				10			10					50				
1080													100	Rd; unconsol.			
1085	50	Tan-pink; EXL											50				
1097	70				10								20	Gry. f. gr, fite			
1097-1105	10				60			10					20	Rd; f. gr			
1111	10				60			10					20				
1120	20				50			Tr					20	10% gry			
1129	10				30			20					20	20%			
1139	10				60			10					10	10%			
1152	90				10												
1159	70				30								20	Rd 10% gry			
1165	50				20								100				
1170	Tr												10				
1178	20				70												
1188	40	Pnk; EXL			50			10									
1194	100	Pnk-tan; EXL						Tr									
1194-1201	100				Tr			Tr									
1205	90	Gry-pink; EXL			10			Tr									
1215	Tr																
1224	10	Gry; EXL, sdy			60								10	Dk gry; f. gr, fite, f. stn, f. cut; 20% rd.			
1233	Tr	Gry; EXL			40			Tr					20	Gry; f. gr, fite			
1240	100	50% gry, sdy w/lt, p. fite; 50 tan, EXL			Tr								50	Clr, m. gr, many EOG's			
1245	50	whf, EXL											100	Clr, m. gr, sulf. stn, uncon			
1252													100				
1257													100				
1265													90				
1269	10	whf, EXL															
1275	20												80				

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many EOG's

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Fluorescence — S=Slight — F=Fair — G=Good — M=Mineral
 Porosity — S=Slight — F=Fair — G=Good — V=Vugular — I=Interstitial — F=Fracture

