

NMDC - ARTESIA
NMDC - H
BLM - SANTA FEUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)

RECEIVED

JUN 10 1965

Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION
N.M. 0540591
ARTESIA, OFFICE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal-Haystack

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

20, 6-S, 27-E, NMPM

12. COUNTY OR
PARISH
Chaves13. STATE
N.M.

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

Forest Oil Corporation

3. ADDRESS OF OPERATOR

P. O. Box 4106, Odessa, Texas

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

At surface 660' from South & West lines, Sec.20,T-6-S, R-27-E

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

3-16-65

16. DATE T.D. REACHED

4-12-65

17. DATE COMPL. (Ready to prod.)

Dry hole

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

3915 DF; 3921 RKB; 3906 GR

19. ELEV. CASINGHEAD

Removed

20. TOTAL DEPTH, MD & TVD

6,315'

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

Plugged at surface

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-6,315' T.D.

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

Dry Hole

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GE-Sonic, LL, & MLL

27. WAS WELL CORED

1642-96' (San Andres)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8" OD	48# H-40	221.12'	17"	225 ax circulated	none
8-5/8" OD	20# H-40	1,074.74'	11"	225 sc TUC 339'	none
4-1/2" OD	9.5# J-55	6,143.75'	6-3/4"	174 sc TUC 5200'	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					None		

31. PERFORATION RECORD (Interval, size and number)

6086-91' - 10 holes - Dry
5772-80' - 16 holes
5730-35' - 10 holes
5722-24' - 4 holes
5752' - 2 holes
5709-11' - 4 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6086-6091'	500 gal 15% HCL
5772-5780'	3770 gal 15% HCL
5730-5735'	Squeeze w/ 275 ax
5722-5724'	Squeeze w/ 125 ax
5752'	Squeeze w/ 75 ax
5709-5711'	750 gal 15% SG w/ 50 ax

33.*

PRODUCTION

DATE FIRST PRODUCTION

None

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

WELL STATUS (Producing or
shut-in) Dry

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

Well Data Sheets, Deviation tabulation, and 2 copies each of Sonic-Gamma Ray, MLL & LL Logs

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

SIGNED

J. R. Wright

TITLE

Division Production Sup't.

DATE

June 4, 1965

*(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.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Pennsylvanian	5,708'	5,780'	Gas and Salt Water See attached summary of operations for cored interval and drill stem tests.	San Andres Glorieta Clearfork Tubb Yesso Abo Wolfcamp Perm. Miss. Pre-Miss. Pre-Cambrian	1058 2237 2373 3660 3937 4330 5042 5660 6123 6270 6312	1046 2225 2361 3648 3945 4318 5030 5648 6111 6258 6300

WELL DATA
(Attachment to Form 9-330)

FOREST OIL CORPORATION

Federal-Haystack No. 1, N.M. 0390091
Section 20, T-6-S, R-27-E, N.M.P.M.
660 feet from South and West lines.
Chaves County, New Mexico

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O. C. C.
ARTEBIA, OFFICE

Drilled 17-1/4" hole to 226' and set 208' of 13-3/8" O.D., 48#/ft., H-40 casing at 221'. Cemented casing with 225 sacks of regular cement back to surface of ground. Tested casing after 16 hours with 800#. Held pressure for 30 minutes with no bleed off.

Drilled 11" hole to 1,075' and set 1,061' of 8-5/8" O.D. South-western 20#/ft., SP40 casing at 1,075' and cemented with 125 sacks of regular and 100 sacks of 50/50 Posmix with 4% gel. Tested casing after 20 hours with 800#. Held pressure for 30 minutes with no bleed off.

Cut Core #1 from 1,642' to 1,696' and recovered 54' of core, 1,642-46', show-bleeding oil and gas, 1,649-55' show, 1662-79' bleeding salt water, oil and gas, 1,679-82' bleeding oil, 1,686-88' shale 1,688-96' anhydrite.

Drill stem test #1 - San Andres - 1,630-96'. Tool open 45 minutes, recovered 20' of slightly oil and gas cut mud (Est. 2% oil). Bottom hole pressures, initial shut in 83#, initial flow 50#, final 58#, final shut in (one hour) 91#.

Drill stem test #2 - 5,719' to 5,755'. (Reef section in Penn.) Tool open one hour with 3/4" choke on bottom and 1/2" choke at top. Flowing gas and salt water. Maximum surface pressure 940#. Recovered 90' of distillate and 690' of salt water. Bottom hole pressures, initial shut in 2361#, initial flow 435#, final flow 1480#, final shut in 2361#.

Found top of granite wash at 6,306' and top of granite at 6,310'. Drilled 6-3/4" hole to total depth of 6,315'.

Drill stem test #3 - 6,260' to 6,315'. Tool open two hours. Recovered 50' of mud with no show. Bottom hole pressures, initial shut in pressure 772#, initial flow 34#, final flow 57#, final shut in 63#.

Ran Schlumberger gamma ray sonic, laterolog, and microlaterolog.

Ran 6,132' of 4 1/2" O.D. 9.5#/ft. J-55 casing and set at 6,144'. Cemented with 175 sacks of Incor regular neat cement. Top of cement back of 4 1/2" casing is at 5,200'. Tested casing with 1500# and held for 30 minutes without bleed off. Plug back T.D. 6,100'.

Page 2
WELL DATA
(Attachment to Form 9-330)

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Perforated with Lane-Wells, 2 "E" bullets per foot, 6,086 to 6,091'. (Morrow Sand)

Acidized perforations with 500 gallons of 15% HCL. Swabbed well dry. No fluid or gas entry.

Set cast iron bridge plug at 5,900' and dumped 1/2 sack of cement on top of plug.

Lane-Wells perforated with 2-E bullets per foot, 5,772-80' (Cisco), and acidized with 1,500 gallons of 15% HCL. Well flowed gas and salt water. Perforated 5,730-35'. Set bridge plug at 5,753'. Well flowed gas and salt water. Tested and found communication between two sets of perforations back of casing. Squeezed perforations with 175 sacks of cement. Drilled out cement and perforated 5,722-24'. Acidized with 500 gallons of 15% HCL. Well flowed gas and salt water. Gas volume 1,082 MCF per day, salt water 19 bbls. per hour. Squeezed perforation with 100 sacks of cement. Perforated 5,772 to 80'. Acidized with 2,250 gallons of 15% HCL. Acid channeled between perforations back of casing. Tested gas and salt water. Acidized both sets of perforations with 3,000 gallons of 15% HCL. Well flowed gas at 680 MCF per day and salt water at 19 to 25 bbls. per hour. Squeezed perforations with 100 sacks of cement. Reversed out to 5,756'. Perforated 5,709-11'. Acidized with 500 gallons of 15% HCL. Well flowed gas and salt water. Squeezed perforations with 50 sacks of cement and reversed out to 5,745'. Perforated with two holes at 5,732' and squeezed with 50 sacks of cement.

Perforated 5,709-11' and acidized with 250 gallons of 15% HCL. Well flowed gas and salt water, 272 MCF per day and 4 bbls. of salt water per hour. Gas volume decline to 121 MCF per day and salt water increased to 8 bbls. per hour. Squeezed perforations 5,709-11' with 50 sacks of cement. Maximum pressure 4000 psi, held 4000 psi. Left cement plug inside 4 $\frac{1}{2}$ " casing from 5,608' to 5,711' and pulled tubing out of hole. Removed tree from well and put 20' of cement in top of 4 $\frac{1}{2}$ " casing. Welded steel plate in top of 13-3/8" casing and welded 4 $\frac{1}{2}$ " O.D. marker on top of 13-3/8" casing extending 4' above mean ground level. Company name, lease name and number, location, were welded on side of marker above ground level. Location was cleared and leveled with pits filled with soil.

Forest Oil Corporation

Federal-Haystack #1

INCLINATION SURVEYS

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D. C. C.
ARTERIA, OFFICE

<u>Depth</u>	<u>Inclination</u>
222	1/4°
1070	3/4°
1550	1/4°
1643	3/4°
1920	3/4°
2220	1/2°
2895	1-1/2°
3330	1-1/4°
3650	1°
3943	1°
4290	1°
4487	1/2°
4580	1/2°
4733	1-3/4°
4934	2-1/2°
5140	2-1/4°
5379	1-3/4°
5671	2°
5756	1-3/4°
5908	2-1/2°
6115	2°
6209	2-3/4°

