

OIL AND GAS
OF THE STATE



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File in triplicate for patented and Federal lands.
File in quadruplicate for State lands.

COLO. OIL & GAS COM. COMM.

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 PLEG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
ARROWHEAD EXPLORATION COMPANY

3. ADDRESS OF OPERATOR
1200 Mile High Center, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface C NE SE, Sec. 13, T5S-R54W, - 660' FEL & 2000' FSL -
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Daughty

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
C NE SE, Sec. 13, T5S-R54W

14. PERMIT NO. #68 546 ✓ DATE ISSUED Dec. 20, 68

12. COUNTY OR PARISH Washington 13. STATE Colorado

15. DATE SPUNDED Jan. 1, 69 16. DATE T.D. REACHED Jan. 4, 69 17. DATE COMPL. (Ready to prod.) Jan. 4, 69

18. ELEVATIONS (DF, REB, RT, OR, ETC.) 5132' GL, 5136' KB 19. ELEV. CASINGHEAD 5131'

20. TOTAL DEPTH, MD & TVD 4739' 21. PLUG, BACK T.D., MD & TVD --- 22. IF MULTIPLE COMPL., HOW MANY --- 23. INTERVALS DRILLED BY --- ROTARY TOOLS XX CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)
--- None - Dry Hole

25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger; Ind.-Elec. and Microlog 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
8 5/8"	--	128'	--	with 90 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Dry Hole - WELL STATUS (Producing or shut-in) P&A

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

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

SIGNED Ted Koble TITLE Prod. Supt. DATE Feb. 19, 69

See Spaces for Additional Data on Reverse Side

14

✓

37. SUMMARY OF POROUS ZONES:
 SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, IN-
 CLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Niobrara Ft. Hays Carlile Greenhorn Bentonite "D" Sand "J" Sand TD - TD Drlr.		3645' 4163' 4213' 4278' 4506' 4601' 4662' 4739' 4740'



APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

D. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

ARROWHEAD EXPLORATION COMPANY

3. ADDRESS OF OPERATOR

1200 Mile High Center, Denver, Colorado 80202

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

At surface

C NE SE, Sec. 13, T5S-R54W

At proposed prod. zone
same

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

9 miles South of Linden, Colorado

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

660'

16. NO. OF ACRES IN LEASE

160

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.

19. PROPOSED DEPTH

4900'

20. ROTARY OR CABLE TOOLS

rotary

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

5132' GR

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	100'	100 sacks
7 7/8"	5 1/2"	15.5#	4800'	150 sacks

To test the "D" or "J" Sands for possible oil and/or gas production.

Blanket

DVR	<i>see att.</i>
FJP	
HHM	
JAM	<input checked="" type="checkbox"/>
JJD	<i>12/20/68</i>

 344 3910

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 *Ted Kottis* TITLE Prod. Supt. DATE December 18, 1968

(This space for Federal or State office use)

PERMIT NO. 38 526 APPROVAL DATE _____

APPROVED BY *W. Rogers* TITLE DIRECTOR DATE DEC 20 1968

CONDITIONS OF APPROVAL, IF ANY:

546
 05 121 8193

INSTRUCTIONS

Before any person shall commence operations for the drilling of any well, such person shall file with the Director an application on Form-2 for a permit to drill, along with a filing and service fee of seventy-five dollars (\$75), and must secure the Director's approval before proceeding with such operation.

Before any person shall commence recompletion operations by deepening or plugging back to any source of supply other than the existing producing horizon, such person shall file an application on Form-2 and secure approval of the Director.

Form-2 shall be filed in duplicate for wells on all Patented and Federal lands, and in triplicate for wells on all State lands. An accurate plat or map showing the location of the well and showing measurements necessary for the determination thereof shall be filed with the Director. Unless operations are commenced within one hundred twenty (120) days after the date of approval, the permit will become null and void; however, for good cause shown, the Director may grant an extension not to exceed an additional one hundred twenty (120) days.

Fill in all applicable spaces.