

NOTATIONS

Entered in NID File ✓

Entered On S R Sheet ✓

Location Map Pinned ✓

Card Indexed ✓

IWR for State or Fee Land \_\_\_\_\_

Checked by Chief PWB

Copy NID to Field Office \_\_\_\_\_

Approval Letter 9-29-67

Disapproval Letter \_\_\_\_\_

COMPLETION DATA:

Date Well Completed 11-14-67

Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

Bond released \_\_\_\_\_

SI ✓ OS \_\_\_\_\_ PA \_\_\_\_\_

State of Fee Land \_\_\_\_\_

LOGS FILED

Driller's Log 12-11-67

Electronic Logs (No. ) 4

E \_\_\_\_\_ I \_\_\_\_\_ E-I ✓ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic ✓ Others \_\_\_\_\_

Cement Bond Log

Neutron Porosity Log

8-27-91  
PWB

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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 ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**Sinclair Oil & Gas Company**

3. ADDRESS OF OPERATOR  
**501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface **SE NE - 1980' f/North and 660' f/East line Sec. 19-43S-22E**  
 At proposed prod. zone **Same**

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

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **660'**

16. NO. OF ACRES IN LEASE  
**638.20**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 -

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **1st well**

19. PROPOSED DEPTH  
**5500'**

20. ROTARY OR CABLE TOOLS  
**Rotary tools**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5005'**

22. APPROX. DATE WORK WILL START\*  
**When approvals rec'd.**

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#	400' ✓	350 sx (Cmt bottom to top) ✓
7-7/8"	4 1/2" or 5 1/2"	-	Total depth	300 sx

Propose to drill well to depth sufficient to test the Akah formation. Anticipated formation tops are: Coconino 1900', Akah 4975'.

Well will be drilled with rotary tools, setting 8-5/8" OD casing at approx 400', cemented bottom to top, 7-7/8" hole will be drilled to TD, all shows to be tested. ✓ If commercial production encountered, 4 1/2" or 5 1/2" casing will be set with sufficient cement to protect all zones, productive zone(s) will be perforated, treated if necessary, and well completed. ✓

Certified location plat attached. ✓

C&E - U.S.G.S., Farmington  
 cc - Navajo Tribe, Minerals Div., Farmington  
 - Utah O & G Cons. Comm.  
 File

*45-037-20071*

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 M. E. Brown TITLE Chief Office Clerk DATE 9/26/67  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

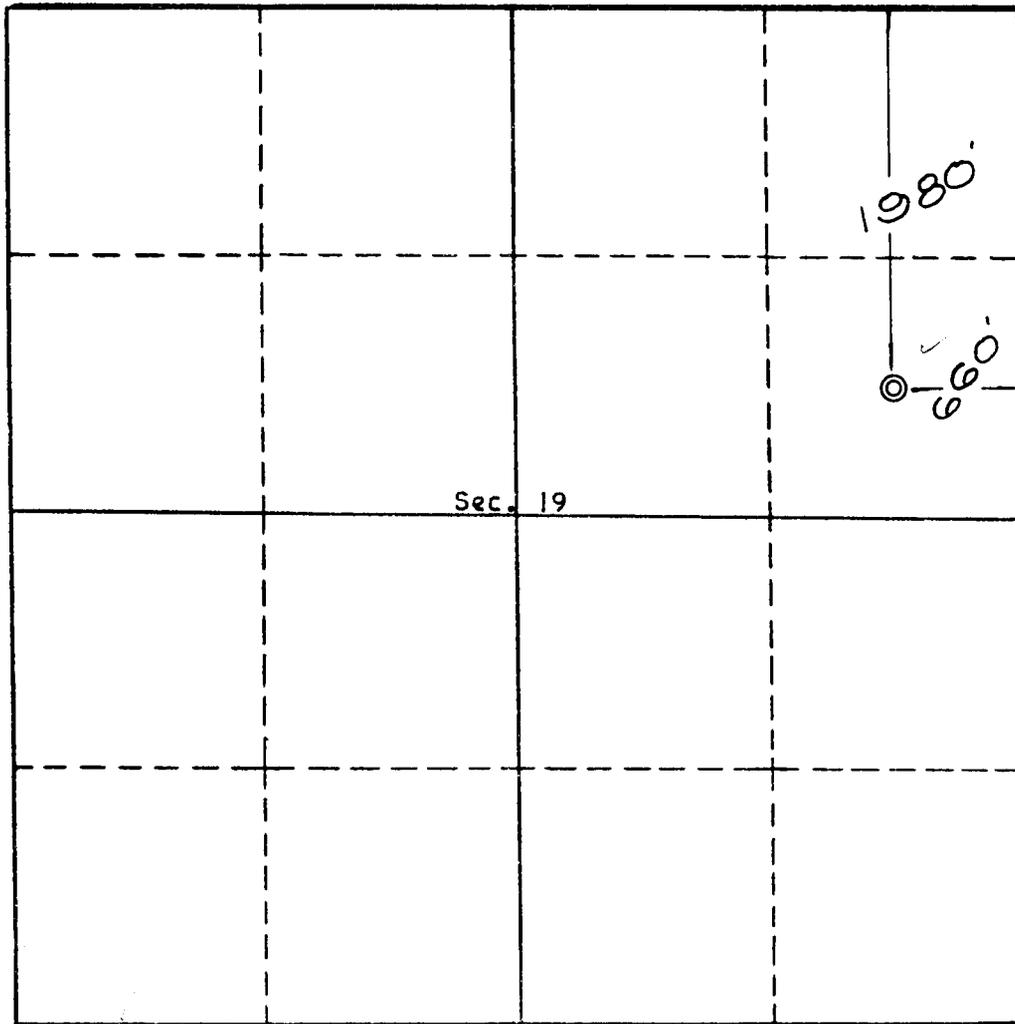
Company SINCLAIR OIL & GAS COMPANY

Well Name & No. Navajo Tribal Well #1

Location 1980 feet from the North line and 660 feet from the East line.

Sec. 19, T. 43 S., R. 22 E., S. L. M., County San Juan, Utah

Ground Elevation 5005, estimated.



Scale, 1 inch = 1,000 feet

Surveyed September 9, 19 67

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

*E. V. Echohawk*

Ernest V. Echohawk  
Registered Land Surveyor  
Utah Registration No. 2611

44

September 27, 1967

Sinclair Oil & Gas Company  
501 Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

Re: Well No. Navajo Tribal #1,  
Sec. 19, T. 43 S., R. 22 E.,  
San Juan County, Utah.  
API number 43-037-20291

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer  
HOME: 277-2890 - Salt Lake City, Utah  
OFFICE: 328-5771

This approval terminates within 90 days if the well has not been spudded-in within said period.

20

September 27, 1967

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered while drilling. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sc

cc: P. T. McGrath, District Engineer  
Box 959  
Farmington, New Mexico

14

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE REVERSE SIDE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Cont. No. 14-20-0603-756

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Tribal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 19-438-22E, SIM

14. PERMIT NO.

Mr. J. L. Ward, 9/27/67

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

5005' GL

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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) Setting surface casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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.)\*

Spudded 12-1/4" hole 3:30 a.m., 10/10/67. Drld to 496'. Set 15 jts 8-5/8" OD 2 1/2 J-55 H Casing @ 494', ground meas., with 300 sx Class "A" Cement, 3/4 Coll, cement circulated, FD 4 p.m. 10/10/67. Head locked. Cemented outside casing w/ additional 20 sacks. WCC. Hipped up. Tested casing at 1000' FOR 30 minutes, held O.K.. Drld out 10:00 a.m. 10/11/67

10/12/67 Drlg ahead @ 1,718'.

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

SIGNED

M. E. Brown  
M. E. Brown

TITLE

Chief Office Clerk

DATE

Oct.

Nov. 13, 1967

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

16

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Contract **11-20-0603-756**

LEASE NUMBER \_\_\_\_\_

UNIT \_\_\_\_\_

LESSEE'S MONTHLY REPORT OF OPERATIONS

Navajo Tribal  
SE NE Sec. 19-43S-22E

State Utah County San Juan Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1967

Agent's address 501 Lincoln Tower Bldg. Company Sinclair Oil & Gas Company

1860 Lincoln St.-Denver, Colorado 80203

Signed M. E. Brown

Phone 266-2460

Agent's title Chief Office Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline/content of gas)
										Spudded 12 1/4" hole 3:30 a.m., 10/10/67. Drld to 496'. Set 15 jts 8-5/8"OD 2 1/2" J-55 N Casing @ 494', ground meas., with 300 sx Class "A" Cement, 3% CaCl, cement circulated, PD 4 p.m/ 10/10/67. Head leaked. Cemented outside casing w/additional 20 sacks. WOC. Nipped up. Tested casing at 1000# for 30 minutes, held O.K. Drld out 10:00 a.m. 10/11/67.
										10/12/67 DST No. 1 1859-67, Coconino, open 1 hr w/vy gd blow. Rec'd 1400' fresh water. 30" ISIP 775#, BHFP 334-628#, 30" FSIP 788#, Hyd 975#.
										10/29/67 DST 5134-59', Akah, open 5" w/wk blow, SI 30", open 1 hr w/fair blow thru test. Rec'd 450' mud, Sli Gas Out, vy sli tr oil cut. 30" ISIP 748#, BHFP pressure 27-40#, 30" FSIP 775#, Hyd 2451#.
										11/1/67 TD 5500' - Circ to run logs. ✓

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN **DUPLICATE**  
(Other instr on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Cont. No. 14-20-0603-756

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Tribal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 19-43S-22E, SLM

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Sinclair Oil & Gas Company

3. ADDRESS OF OPERATOR

501 Lincoln Tower Bldg.-1860 Lincoln St.-Denver, Colo. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)

At surface

SE NE - 1980' F/North & 660' f/East lines Sec. 19-43S-22E

14. PERMIT NO.

Mr. J. L. Ward, 9/27/67

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

5005' 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\*

Setting oil string

(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.)\*

10/12/67 DST No. 1 1859-67, Coconino, open 1 hr w/vy gd blow. Rec'd 1400' fresh water. 30" ISIP 775#, BHFP 334-628#, 30" FSIP 788#, Hyd 975#.

10/29/67 DST 5134-59', Akah, open 5" w/wk blow, SI 30", open 1 hr w/fair blow thru test. Rec'd 450' mud, sli Gas Cut, vy sli tr oil cut. 30" ISIP 748#, BHFP pressure 27-40#, 30" FSIP 775#, Hyd 2451#.

11/1/67 5500' TD - Ran logs.

11/2/67 DST 4847-62, Ismay, Open 10", GTS 10", SI 45", Open 3-3/4 hrs. O,W,G to surf in 8", in 30" 2300 MCF, 300# SFP, 3/4" ch, heading wtr & oil. 45" dec to 2100 MCFPD, 280# SFP, 3/4" ch, some wtr & oil; 3 1/4 hrs inc to 2300 MCFPD, 280#SFP, 3/4" choke, est 5 BFP, 15% oil. Reduced ch to 1/4" f/30", 1250 MCFPD, 600#SFP. Rec 1692' Fld, 470' oil, 42° gty, 1222' Black salty wtr w/sul odor. 45" ISIP-1583#, BHFP 646-1236 #, 30" FSIP 1583#, Hyd 2416#.

11/3/67 Set 161 jts 5-1/2"OD 14# J-55 N csg @ 5254' GM w/200 sx Class "C" cmt. Plug to 5218', Plug down 11:55 a.m. 11/3/67. Prep perforate & complete.

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

SIGNED

M. E. Brown

TITLE

Chief Office Clerk

DATE November 3, 1967

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

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\*

5. LEASE DESIGNATION AND SERIAL NO.  
**Cont. No. 14-20-0603-756**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo**

7. UNIT AGREEMENT NAME  
**Navajo Tribal**

8. FARM OR LEASE NAME  
**Navajo Tribal**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Section 19-43S-22E, SIM**

12. COUNTY OR PARISH  
**San Juan**

13. STATE  
**Utah**

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  
**Sinclair Oil & Gas Company**

3. ADDRESS OF OPERATOR  
**501 Lincoln Tower Bldg.-1860 Lincoln St.-Denver, Colo. 80203**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **SE NE - 1980' f/North & 660' f/East lines Sec. 19-43S-22E**  
At top prod. interval reported below  
**same**  
At total depth  
**same**

14. PERMIT NO. **Mr. J. L. Ward** DATE ISSUED **9/27/67**

15. DATE SPUDDED **10/10/67** 16. DATE T.D. REACHED **11/1/67** 17. DATE COMPL. (Ready to prod.) **11/14/67**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5005' GL** 19. ELEV. CASINGHEAD **5005'**

20. TOTAL DEPTH, MD & TVD **5500'** 21. PLUG, BACK T.D., MD & TVD **5218'** 22. IF MULTIPLE COMPL., HOW MANY\* **-** 23. INTERVALS DRILLED BY **0-5500'** ROTARY TOOLS **none** CABLE TOOLS **none**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**Ismay-4849½-4855½'**

25. WAS DIRECTIONAL SURVEY MADE  
**no**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Induction Electric; Sonic GR w/ caliper; Sidewall Neutron; Cmt. bond log.**

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"OD	24½	494'	12-1/4"	300 sx. Class "A" w/ 3½ CaCl.	none
5-1/2"OD	14½	5254'	7-7/8"	200 sx. Class "C"	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
none				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-1/2"OD	4910' w/ SN	4876'

31. PERFORATION RECORD (Interval, size and number)

**Ismay - 4849½-4855½' w/ ¼ jet holes per ft.**

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4849½-4855½'	250 gal. 15% HCL

33.\* PRODUCTION

DATE FIRST PRODUCTION **Shut-in** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **Flowing** WELL STATUS (Producing or shut-in) **Shut-in**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/14/67	12	1/2"	→	322 BPD	4260 MCFPD	350 BPD	13229:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
775#	1150#	→	322 BPD	4260 MCFPD	350 BPD	41°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Awaiting market.** TEST WITNESSED BY **J. E. Taylor**

35. LIST OF ATTACHMENTS  
**Two each of #26.**

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

SIGNED M.E. Brown TITLE Chief Office Clerk DATE November 16, 1967

\*(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		DESCRIPTION, CONTENTS, ETC.	BOTTOM		NAME	TOP	
	Surface	718'		718'	Bottom		MEAS. DEPTH	TRUE VERT. DEPTH
Navajo-Mingate	Surface	718'	Sand stone massive, red, fl gr. Some red-brown sandy shales.	718'		Chinle	718'	
Chinle	718'	1483'	Siltstone & shale, red-orange to brown. Some lwy green, purple shales near base.	1483'		Shinarump	1483'	
Shinarump	1483'	1607'	Shale, sandy w/ some chert pebbles.	1607'		Moenkopi	1607'	
Moenkopi	1607'	1826'	Shale, orange-red, gray-green near base.	1826'		Coconino	1826'	
Coconino	1826'	2225'	Sandstone, fl-red gr, bl in top grading into very porous sand.	2225'		Organ Rock	2225'	
Organ Rock	2225'	3000'	Siltstone & shale, red to brown.	3000'		Hernosa	3940'	
Organ Rock	3000'	3940'	Siltstone, red to brn & gray streaks of anhydrite & gray limestones.	3940'		Imay	4747'	
Hernosa	3940'	4747'	Limestone, shale ± anhy, limestone is gray to vly lt gray cherty. Shales are red to gray-green.	4747'		Desert Creek	4892'	
Imay	4747'	4892'	Limestone, buff to gray, numerous fossils, vuggy porosity in lwr zone, strks dk gray shale present.	4892'		Akah	5069'	
Desert Creek	4892'	5069'	Limestone as above but with vly few & thin strks of vuggy porosity, few thin gray-black shales.	5069'		Barker Creek	5234'	
Akah	5069'	5234'	Limestone, vly Dolomite w/ thick strks gray-black shale, fossiliferous w/ few low porosity vuggy zones.	5234'				
Barker Creek	5234'	5500'	Limestone, gray, generally dense w/ sev shly strks throat. Much lt clrd chert and vly little bl point porosity noted.	5500'				

FORM OGCC-8-X

FILE IN QUADRUPLICATE

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING  
-----  
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Well Name & Number RABBIT EARS NAVAJO WELL NO. 19-1  
Operator Sinclair Oil & Gas Company Address Denver, Colo Phone 266-2460  
Contractor Arapahoe Drlg. Co. Address Farmington N. M. Phone \_\_\_\_\_  
Location SE 1/4 NE 1/4 Sec. 19 T. 43S N R. 22E E San Juan County, Utah.  
<sub>S W</sub>

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. <u>4849 1/2</u>	<u>4855 1/2</u>	<u>(perforations)</u>	<u>350 BPD</u>
			<u>Fresh</u> ✓
2.			
3.			
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops:

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform the Commission.
  - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).
  - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

6

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**Cont. No. 14-20-0603-756**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**Navajo**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

**Navajo Tribal**

9. WELL NO.

**1**

10. FIELD AND POOL, OR WILDCAT

**Wildcat**

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

**Section 19-43S-22E, S1M**

14. PERMIT NO.

**Mr. J. L. Ward, 9/27/67**

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

**5005' GL**

12. COUNTY OR PARISH

**San Juan**

13. STATE

**Utah**

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)

**Completion**

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.)\*

**11/6/67 WI & RU Signal Oil field Service.**

**11/7/67 Ran cat bond log, top cat 4350', rd bond, ran CR-Correl log, perf lower Ismay 4849 1/2-4855 1/2' (CR Meas.) w/u holes/ft. Set 158 jts 2-1/2" tag @ 4910' SN @ 4876'. Removed BOP, installed tree, SI overnight.**

**11/8/67 Swabbed 118 B1W in 6 hrs, FL 3650', swbd 26 bbls salt water, all show gas in 2 hrs SI over night.**

**11/9/67 1 1/2 hr SICP 250#, TP 0#, FL 3000', 1st pull, 5 gal oil on top w/all show gas. Swabbed 11 HF in 3 hrs (15% oil, 85% SW). Swbd 11 HF next 3 hrs (40% oil, 60% SW) Swbd 6 HF next 2 hrs (65% oil, 35% SW). CP 100-200# while swbg, varied. Gd show gas following each pull, FL f/500-800' in hole. SD overnight.**

**11/10/67 1 1/2 hr SICP 850#, TP 35#, FL 1200', 1st pull rec'd 1 BOP 6 BSW. Spd 250 gal 15% NGL, vac., waited 1 hr. Pld swab 3 times & kicked off. Flw to pit 1 hr, conn sepr. Tested 5 hr on 1/2" choke, Vol f/2800 to 3700 NCFPD, TP f/635-750#, CP f/600-1150#, Sepr pr f/150-225#, last 1/2 hrs BPPH f/49-32, cut 95% wtr, 5% oil. SI overnight.**

Continued on page 2.

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

SIGNED

**M. E. Brown**

TITLE

**Chief Office Clerk**

DATE

**Nov. 20, 1967**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Navajo Tribal well #1, Cont. No. 14-20-0603-756, San Juan Co., Utah.  
SE NE Section 19-43S-22E.

11/11/67 15 hr SICP 1350#, TP 1125#. Tested 1 hr on 2 1/4" choke, 2420 MCFPD, 19 BF, 95% wtr. Tested 5 hrs on 1/2" choke, 3880-4260 MCFPD, TP 750-775#, CP 1175#, 36-27 BFPH, cut f /75 to 60% wtr, Sepr pr f /150-250#. MO compl unit.

11/12/67 Moving out compl tools

11/13/67 MO compl unit. Opened well for test.

11/14/67 12 hr test Ismay perms 4849 1/2 - 4855 1/2', max flow rate on 1/2" choke, 775# TP, 1150# CP, 225# Sepr pr, rate of 4260 MCFPD, 322 bbl, 41 gty oil, 350 BW, 30,000 ppm chlorides, estimated AOF 15,000 MCFPD. 42 hr SITP 1150#, SICP 1350#. Completed shut in gas well.

13, 230 ccip/100'

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.  
**Cent. No. 14-20-0603-756**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**Navajo**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

**Rabbit Ears Navajo**

9. WELL NO.

**19-1**

10. FIELD AND POOL, OR WILDCAT

**Wildcat**

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

**Section 19-435-22E**

12. COUNTY OR PARISH | 13. STATE

**San Juan**

**Utah**

14. PERMIT NO.

**Mr. J.L. Ward, 9/27/67**

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

**5005' OL**

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\*

**Change of lease name**

(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.)\*

**Lease & well name originally designated as Navajo Tribal Well #1, has been changed to Rabbit Ears Navajo Well #19-1**

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

SIGNED

**M. E. Brown / LG E**

TITLE

**Chief Office Clerk**

DATE

**Dec. 9, 1967**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5  
LAND OFFICE Navajo  
LEASE NUMBER 14-20-0603-756  
UNIT \_\_\_\_\_

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field \_\_\_\_\_  
 The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1968, Rabbit Ears Navajo 19-1  
 Agent's address 501 Lincoln Tower Building Company Sinclair Oil & Gas Company  
Denver, Colorado 80203 Signed ME Brown / JGB  
 Phone 266-2460 Agent's title Chief Office Clerk

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SE NE Sec. 19	43S	22E	19-1	0	—	—	—	—	—	Shut in

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;  
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE CATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

PI

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.)

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-756

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Rabbit Wars Navajo

9. WELL NO.

19-1

10. FIELD AND POOL, OR WILDCAT

Rabbit Wars - Ismay

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

12. COUNTY OR PARISH

13. STATE

San Juan

Utah

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P.O. Box 2197 Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1980' ENL & 660' ENL (SE NE/4) Sec. 19

14. PERMIT NO.

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

GR 5005'

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) Squeeze & reperforate

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.)\*

This well is perforated 4849 1/2' - 4855 1/2' with 24 holes in 5 1/2" casing. Production is about 25 BOPD and 400 MCFD. We propose to squeeze present perforations with cement and reperforate approximately 4848' - 4853' in an attempt to reduce water production. A small acid treatment may be necessary after re perforating.

APPROVED BY DIVISION OF  
OIL & GAS CONSERVATION

DATE 6-2-70

BY Paul W. Benschel

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

SIGNED B. J. Swartz

TITLE Drilling & Prod. Supv.

DATE 5/18/70

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.  
14-20-0603-756

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Rabbit Ears Navajo

9. WELL NO. 19-1  
1

10. FIELD AND POOL, OR WILDCAT  
Rabbit Ears - Ismay

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 19, T43S, R22E

12. COUNTY OR PARISH 13. STATE  
San Juan Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Atlantic Richfield Company

3. ADDRESS OF OPERATOR  
P. O. Box 2197, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1980' FNL & 660' FEL (SE NE/4) Sec. 19

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
Gr 5005'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING & ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(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.)\*

Rigged up workover rig on 5/18/70. Squeezed perms. 4849½ - 4855½ w/100 sacks (35 in formation and reversed out 65 sx.) on 5/20/70. Final press.- 4500 psi. W.O.C. until 5/22/70 and drilled out. Tested squeeze 2500 psi o.k. Reperforated 4848' - 4853' w/4 jets/ft. Ran tbg. and swabbed dry on 5/24/70. On 5/25 acidized w/250 gal. 15% HCl. Ran tubing and swabbed in. Reran rods and pump & resumed pumping 5/27/70. Well now prod. 18 BO & 300 BWPD.

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

SIGNED

*B. J. Santora*

TITLE

Drilling & Prod. Supv.

DATE

2/26/71

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

February 11, 1971

Atlantic Richfield Company  
Box 2197  
Farmington, New Mexico

Re: WELL No. Navajo 19-1  
Rabbit Ears Field  
Sec. 19, T. 43 S, R. 22 E,  
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Subsequent Report of Squeezing, Reperforating and Repairing the above referred to well has not yet been filed with this office as required by our Rules and Regulations and Rules of Practice and Procedure.

Thank you for your cooperation with respect to the above.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE  
SUPERVISING STENOGRAPHER

:sd

North American Producing Division  
New Mexico, Arizona District  
Post Office Box 2197  
Farmington, New Mexico 87401  
Telephone 505 825 7527



April 27, 1973

State of Utah  
Department of Natural Resources  
Division of Oil & Gas Conservation  
ATTN: Mr. Cleon B. Feight  
1588 West North Temple  
Salt Lake City, Utah 84116

Re: Atlantic Richfield Company  
Rabbit Ears Navajo 19-1  
Sec. 19, T 43S, R 22E  
San Juan County, Utah

Dear Mr. Feight:

In reply to your letter concerning handling of the water produced by this lease, we are still considering that it will be possible to dispose of this water in our Boundary Butte (English Lease) system. Compatibility checks of the produced waters from the English and Rabbit Ears leases indicate that mixing for disposal is "feasible" and no major problem is predicted.

The status of proposed water disposal at Boundary Butte is: Preliminary design of disposal system is complete; design and cost estimates have been sent to co-owners for approval--we lack approval by one co-owner. When approval for this expenditure is received we will have to make application to the Commission to dispose of the water.

The economics of transferring water from the Rabbit Ears lease to the English lease seems acceptable at this time because of an existing unused pipeline between them. We request permission to continue producing the Rabbit Ears Navajo #19-1 until our disposal plans are finalized and the system completed.

Yours very truly,

*B. J. Sartain*  
B. J. Sartain

BJS/kp

cc: U.S.G.S. - Farmington  
W. A. Walther, Jr. - Denver

May 3, 1973

Atlantic Richfield Company  
P.O. Box 2197  
Farmington, New Mexico 87401

Re: Well No:  
Rabbit Ears Navajo #19-1  
Sec. 19, T. 43 S, R. 22 E,  
San Juan County, Utah

Gentlemen:

In reference to your letter of April 27, 1973, please be advised that you have this Division's permission to continue producing the above referred to well.

However, it is requested that you notify us immediately upon finalization of your disposal plans.

Thank you for your cooperation with regard to the above.

Respectfully yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sd



# United States Department of the Interior

OFFICE OF THE SECRETARY  
MINERALS MANAGEMENT SERVICE  
SOUTH CENTRAL REGION  
Drawer 600  
Farmington, New Mexico 87401

February 10, 1982

Atlantic Richfield Company  
P. O. Box 2197  
Farmington, New Mexico 87401

Gentlemen:

It has come to our attention that your well No. 1 Rabbit Ears located in sec. 19, T. 43 S., R. 22 E., San Juan County, Utah on Navajo Tribal lease No. 14-20-0603-756, in its extended term, has not produced in paying quantities since September, 1977. In order to hold a Navajo Tribal lease in its extended term the lease must produce oil and/or gas in paying quantities. This office has recommended that lease No. 14-20-0603-756, in its extended term, be terminated effective September 30, 1977, by virtue of not producing oil and gas in paying quantities after September, 1977.

Pursuant to Title 30 CFR 221.34, the lessee shall promptly plug and abandon any well on the leased land that is not used or useful for purposes of the lease. Please submit your Sundry Notice for approval to plug and abandon well No. 1 Rabbit Ears within 30 days from the date of this letter. Failure to comply will result in the assessment of liquidated damages pursuant to Title 30 CFR 221.54.

Sincerely yours,

For James F. Sims  
District Oil and Gas Supervisor

**RECEIVED**

FEB 12 1982

FARMINGTON

OFFICE OF THE SECRETARY  
MINERALS MANAGEMENT SERVICE  
DRAWER 600  
FARMINGTON NM 87401

March 1, 1982

Memorandum

To: Area Director, Bureau of Indian Affairs, Window Rock, Arizona  
From: District Oil and Gas Supervisor, Farmington, New Mexico  
Subject: Disposition of well No. 1 Rabbit Ears located on terminated Navajo Tribal lease No. 14-20-0603-756 (see Deputy Minerals Manager letter of February 19, 1982)

On September 30, 1977 when production ceased from No. 1 Rabbit Ears located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 19, T. 43 S., R. 22 E., San Juan County, Utah, on the subject lease, the well was producing 10 bbls of oil, 66 MCF of gas, and 314 bbls of salt water per day. The operator was unable to satisfactorily dispose of the produced salt water to comply with NTL-2B requirements and consequently had to shut-in the well.

Please advise this office by letter whether the Navajo Tribe wants to plug and abandon the subject well or leave the well unplugged and attempt to release with the well intact or arrange for the operation of the well under a Navajo operating agreement. This office will take no further action concerning the disposition of the well until we receive your reply.



For James F. Sims

cc: ARCO  
P.O. Box 2197  
Farmington, NM 87401

RECEIVED

MAR 3 1982

FARMINGTON

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR ARCO Oil and Gas Co., Div. of Atlantic Richfield Company

3. ADDRESS OF OPERATOR 80217 717-17th St., P.O. Box 5540, Denver, Co.

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
 AT SURFACE: 1980' FNL & 660' FEL (SE NE/4)  
 AT TOP PROD. INTERVAL: Appx. same Sec. 19  
 AT TOTAL DEPTH: Appx. same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(other)		

5. LEASE 14-20-0603-756

6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo

7. UNIT AGREEMENT NAME ----

8. FARM OR LEASE NAME Rabbit Ears Navajo 19-1

9. WELL NO. 1

10. FIELD OR WILDCAT NAME Rabbit Ears - Ismay

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19-43S-22E

12. COUNTY OR PARISH San Juan 13. STATE Utah

14. API NO. Not Assigned

15. ELEVATIONS (SHOW DF, KDB, AND WD) 5005' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

ARCO desires to plug and abandon this well in accordance with U.S. Dept. of the Interior, Minerals Management Service's letter of February 10, 1982 (copy attached). (ARCO was given a waiver of the 30-day deadline indicated in the letter pending a reply to Minerals Management Service's letter to the Bureau of Indian Affairs dated March 1, 1982 (copy also attached). The waiver was given verbally by Mr. Richard Bell, USGS-Farmington, in a telephone conversation with our Mr. P.J. Tibbitts on March 10, 1982.)

This well was completed in November, 1967, and produced from the Lower Ismay perforations (4848-4853'). The well was shut-in in October, 1977 since we were unable to satisfactorily dispose of the produced salt water (which was soaking into surface rocks) to comply with NTL-2B requirements. The cost to provide for injection of the salt water from the well is prohibitive. ((Cont'd. on reverse side))  
 Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Stephen Rose TITLE Dist. Prod. Supt. DATE March 11, 1982  
S. C. ROSE

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING**

DATE: 3/22/82  
 BY: [Signature]

PLUGGING PROCEDURE

Rabbit Ears #19-1, Sec. 19-43S-22E

March 11, 1982

1. MI RU pulling unit.
2. POH with rods & pump.
3. Fill hole with fresh water & circulate.
4. ND tree.
5. Screw into 2 7/8" tubing hanger and rotate tubing six to eight turns to the right to release the Baker tubing anchor catcher.
6. POH with 2 7/8" tubing and anchor.
7. RIH with tubing open ended to 4903'.
8. Pump 26 sx. class "G" cmt w/2% CaCl<sub>2</sub>. Displace tubing leaving 230' of cmt in tubing (26 sx = 222' column in 5 1/2" casing).
9. POH with tubing.
10. RIH with retrievable packer to 3840' and set packer.
11. RU wireline co. and RIH with wireline perf. gun.
12. Perforate casing at 3990'.
13. POH with wireline.
14. Pump 30 sx Class "G" cmt with 2% CaCl<sub>2</sub>. Displace tubing plus 1 bbl with fresh water (30 sx = 7 7/8" x 5 1/2" annulus, 100' + 25% excess plus 5 1/2" casing capacity, 100'). One bbl overdisplacement puts top of cmt 40 ft. below the packer.
15. Watch for returns up 5 1/2" x 8 5/8" annulus and watch for a vacuum on tubing.
16. Release packer and pull up to 1735'. Set packer.
17. RIH with wireline and perf. casing at 1876'.
18. POH with wireline.
19. Pump 30 sx class "G" cmt with 2% CaCl<sub>2</sub>. Displace tubing plus one bbl with fresh water.

Rabbit Ears Plugging Procedures

Page 2

March 11, 1982

20. Watch for returns up 8 5/8" x 5 1/2" annulus and watch for a vacuum on the tubing.
21. Release packer and pull up to 400'. Set packer.
22. RIH with wireline and perf. casing at 544'.
23. Pump 30 sx Class "G" cmt with 2% CaCl<sub>2</sub>. Displace tubing plus one bbl with fresh water.
24. Watch for returns up 8 5/8" x 5 1/2" annulus and watch for a vacuum on the tubing.
25. POH with tubing and packer.
26. RIH with tubing openended to 50'.
27. Pump six sacks class "G" cmt with 2% CaCl<sub>2</sub>. Do not displace.
28. POH.
29. Top off with cement any settling of the cement in the 5 1/2" casing.
30. RD and move off.



P.J. Tibbitts

PJT/glc

Endorsed by



---

District Drilling Supervisor

LEASE NAME & WELL NO. Rabbit Ears #19-1

LOCATION: SE NE Sec 19-435-22E

San Juan Co Utah

Elev. 5005 GL

WELL COMPLETED: Nov. 1967

HOLE SIZE: 7 7/8"

TOP OF: Esmay @ 4747'  
Hermosa @ 3940'  
Dechelly @ 1826'

SURFACE CASING: 8-5/8" 24# @ 494' w/300 sx

Production Csg: 5-1/2" 14# J-55 @ 5254' w/200 sx

CEMENT TOP: 4350' by cement bond log

cement plugs at: 0-50', 444'-544', 1776'-1876',  
to be set 3890'-3990', 4697'-4903'  
cut on inside and outside of 5-1/2"

2 7/8" OD EUE

Tubing set at 4835'

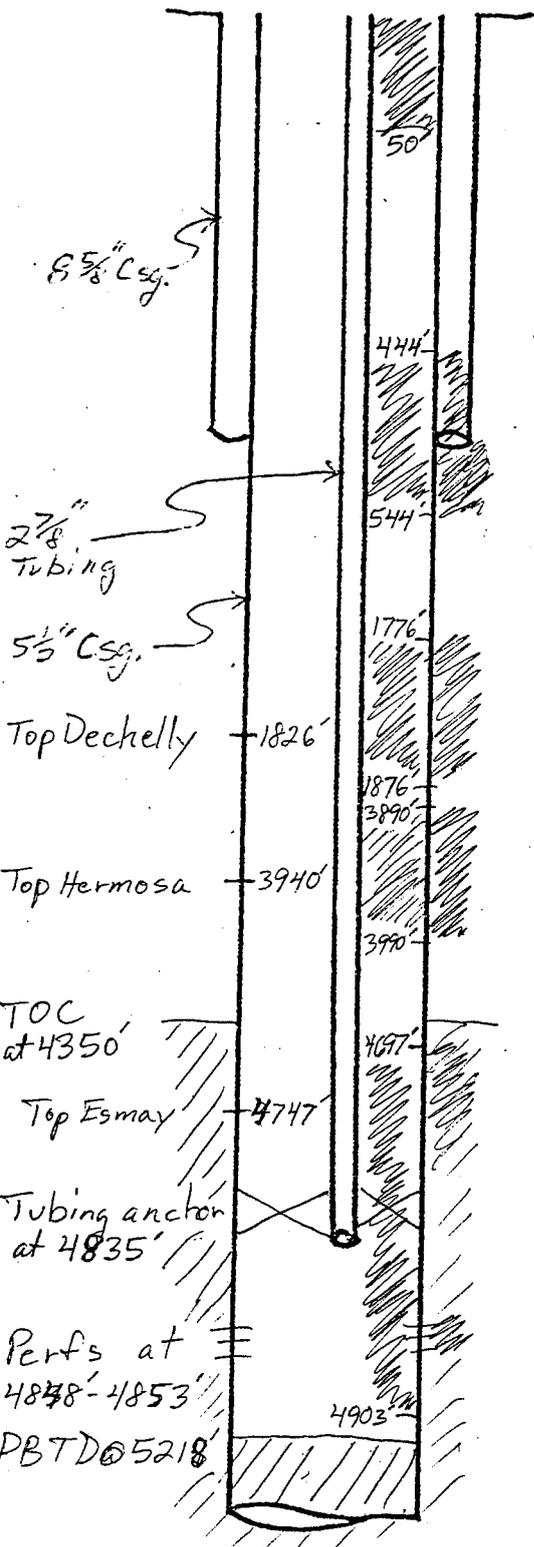
4848-4853 Perforations: 20 shots

PBTD: 5218'

14# 5-1/2" OD casing set at 5254' KB with 200 sacks

TOTAL DEPTH:

5500'



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-0 for such proposals.

1. oil well  gas well  other P & A

2. NAME OF OPERATOR ARCO Oil and Gas Company  
Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR  
P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1980' FNL & 660' FEL (SENE)  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH: Approx the same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(other)	<input type="checkbox"/>	<input type="checkbox"/>

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.)\*

MI & RU pulling unit 11-9-82. Pull rods, pump and tubing. RIH with csg scraper. Circl with water. Set tubing @ 4912' and pump 26 sx (5.5 bbls) cement. Top of plug @ 4790 & bottom of plug @ 4912'. Perf'd 1-0.32" hole @ 3990'. Set packer @ 3840'. Circl 2 bbls water out casing and pump 30 sx (6.0 bbls) Class "G" cement. Pump 13 bbls of displacement, closed circl sleeve and pump'd 10.5 bbls displacement for total of 23.5 bbls displacement. Top of plug # 3890' & bottom of plug @ 3990'. Set packer @ 1730'. Perf'd 1-0.28" hole @ 1876'. Pumped 2 bbls water and mix 30 sx (6.0 bbls) Class "G" cement and displace with 11 bbls fresh water. Top of plug @ 1776' & bottom of plug @ 1876'. Perf'd 2-0.32" holes @ 544'. Set packer @ 408'. Mixed 30 sx (6.0 bbls) Class "G" cement, pumped 3.5 bbls fresh water displacement. Top of plug @ 444' & bottom of plug @ 544'. Mix and pump 6 sx (1.5 bbls) Class "G" cement and set in casing 0' - 50'. Release unit 11-12-82. Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Stephen Rose TITLE District Production Superintendent DATE 11-30-82  
S. C. Rose

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

5. LEASE 14-20-0603-756  
14-0603-756

6. INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME  
---

8. FARM OR LEASE NAME  
Rabbit Ears Navajo 19-1

9. WELL NO.  
1

10. FIELD OR WILDCAT NAME  
Rabbit Ears - Ismay

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
19-43S-22E

12. COUNTY OR PARISH San Juan 13. STATE Utah

14. API NO.  
Not Assigned

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5005' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

\*See Instructions on Reverse Side

3 copies - State of Utah, Div. of Oil, Gas & Mining



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 25, 1983

ARCO Oil & Gas Company  
717 17th Street  
P. O. Box 5540  
Denver, Colorado 80217

Re: Well No. Rabbit Ears Navajo # 19-1  
Sec. 19, T. 43S, R. 22E.  
San Juan County, Utah

Gentlemen:

Review of the file for the above referenced well indicates that the well has been reported as temporarily abandoned since March 1, 1982. The Division staff issued approval on March 11, 1982, for the Sundry Notices and Reports of Wells, Notice of Intention to Abandon the Well for this well.

Please immediately advise this office as to the status of this well and if the approved abandonment has been completed; promptly submit the required Subsequent Report of Abandonment.

Thank you for your prompt cooperation with the above matter.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Well Records Specialist

CF/cf  
Enclosure



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
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*Cari Furse*

Cari Furse  
Well Records Specialist

RECEIVED  
MAY 18 1983

DIVISION OF  
OIL, GAS & MINING

CF/cf  
Enclosure

*Note: 3 Copies attached -  
5/9/83.*

Board / Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck  
Robert R. Norman • Margaret R. Bird • Herm Olsen

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*Rec'd. O.F.G.  
5/16/83  
BPL*