

Feb 2 1969

FILE NOTATIONS	
Entered in NID File	<input checked="" type="checkbox"/>
Entered on S R Sheet	<input type="checkbox"/>
Location Map Filled	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>
IWR for State or Fee Land	<input type="checkbox"/>
Checked by Chief	<input checked="" type="checkbox"/> <i>PMB</i>
Copy IWD to Field Office	<input checked="" type="checkbox"/>
Approval Letter	<input type="checkbox"/>
Disapproval Letter	<input type="checkbox"/>
COMPLETION DATA:	
Date Well Completed	5-15-64
DW	WW
SW	OR
DA	PA
Location Inspected	<input type="checkbox"/>
Bound released	<input type="checkbox"/>
State of Fee Land	<input type="checkbox"/>
LOGS FILED	
Driller's Log	6-8-64
Electric Logs (Nos. 1)	2
GR	IL
FEI	GR
GR/M	Micro
SP	WEL
Sonic	GE
Other	

I contacted Mr. C. M. Boles by telephone on February 11, 1964 and he confirmed the location on the Surveyor's Plat and stated that the location on the Notice was in error.

Lathy J. Warner

Draw up production & GOR curves on 3/19/65. The commercial problem is in all probability going to be taken care of by the wells depletion.

Effective Oct. 4, 1969  
 R. J. Bayless & L. J. Merriam  
 assumed operations of this well.

# DESIGNATION OF OPERATOR

## Navajo Indian Agency

The undersigned is, on the records of the Bureau of Land Management, holder of lease Agency

Survey-lease Office: Window Rock, Arizona  
SERIAL No.: Contract No. 14-20-603-712

and hereby designates

Name: Phillips Petroleum Company  
Address: 1300 Security Life Building  
Bever, Colorado

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

W1/4 Section 32, Township 42 South, Range 26 East  
San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

### HUMBLE OIL & REFINING COMPANY

By W.H. Edmond  
(Signature of lessee)  
Attorney-in-fact

O. K. as to transaction W.H.  
O. K. as to form W.H.

2-3-64  
(Date)

P. O. Box 120, Denver 1, Colorado  
(Address)

U. S. GOVERNMENT PRINTING OFFICE 16-50285-3

ATTEST:  
Thomas J. Penn  
Ass. Secretary

THE SUPERIOR OIL COMPANY  
By C. H. Kuhl  
Vice President

45

*George H. C.*

**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  
**Phillips Petroleum Company**

3. ADDRESS OF OPERATOR  
**P. O. Drawer 1150, Cortez, Colo. Telephone No. 565-3426**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
**1820' FNL, 1900' FEL, Sec. 32-42E-26E, S1M, San Juan County, Utah.**  
 At proposed prod. zone  
*NE-SW-NE ✓*

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. line, if any)      ---

16. NO. OF ACRES IN LEASE  
**2560**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**80**

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

19. PROPOSED DEPTH  
**6150' ✓**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**4740.0 ungraded ground ✓**

22. APPROX. DATE WORK WILL START\*  
**1 week**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	27.1#	150' ✓	Cement to surface ✓
11"	8-5/8"	24#	2000' ✓	Cement to surface ✓
7-7/8"	5-1/2"	14#	5500' ✓	Approximately 275 sacks ✓
7-7/8"	5-1/2"	15.5#	6150' ✓	

Complete in Desert Creek formation. ✓

Blow out Preventor to be used from approximate depths of 150' to 6150'. ✓

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 *C. N. Boles* TITLE Area Superintendent DATE 2-10-64

(This space for Federal or State office use)

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

45

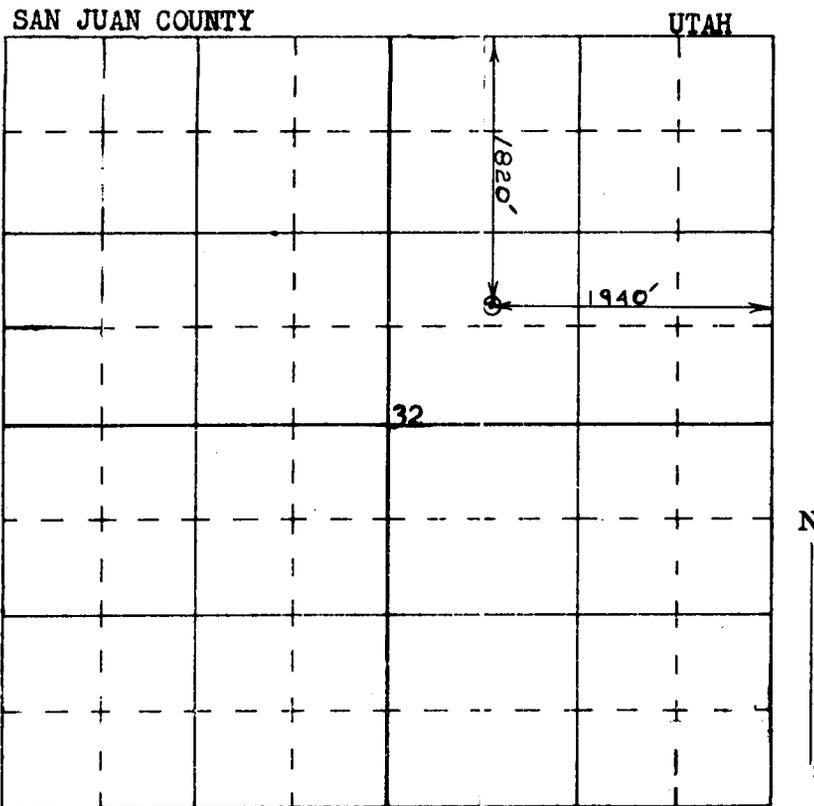
COMPANY PHILLIPS PETROLEUM COMPANY

LEASE NAVAJO K WELL NO. 1

SEC. 32 T. 42 S. R. 26 E. S.L.M.

LOCATION 1820' FROM THE NORTH LINE and 1940' FROM THE EAST LINE.

ELEVATION 4740.0 UNGRADED GROUND.



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

*James P. Leese*  
Registered Land Surveyor.

James P. Leese  
Utah Reg. No. 1472

SURVEYED 5 February 1942



February 13, 1955

Phillips Petroleum Company  
P. O. Box 1150  
Cortez, Colorado

Attention: Mr. G. M. Sales, Area Superintendent

Re: Notice of Intention to Drill Well No.  
MAYALO "K"-#1, 1820' DEEP & 1940' DEEP,  
1/4 SW 1/4 of Section 32, T. 42 S. R. 26  
E., SLM, San Juan County, Utah.

Gentlemen:

Insofar as this office is concerned, approval to drill Well No.  
Mayalo "K"-#1 is hereby granted.

As soon as you have determined that it will be necessary to plug and  
abandon the above mentioned well, you are hereby requested to immediately  
notify the following:

PAUL W. BIRCHALL, Chief Petroleum Engineer  
Office: DA 8-5771 or DA 8-5772  
Home: CR 7-2890  
Salt Lake City, Utah

This approval terminates within 90 days if this well has not been  
spudded within said period.

Enclosed please find Form OGOC-S-X, which is to be completed if  
water sands (aquifers) are encountered while drilling, particularly  
accessible near surface water sands. Your cooperation with respect to  
completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON S. FREIGHT  
EXECUTIVE DIRECTOR

CSF:kgw

cc: P. T. McGrath, District Engineer, U. S. Geological Survey, Farmington, New Mex.

H. L. Coonts, Petroleum Engineer, Oil & Gas Conservation Comm., Moab, Utah

42

Utah  
670

Copy H-2-C

Budget Bureau No. 42-R714  
Approval expires 12-31-60.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ALLOTTEE Navajo Tribe  
TRIBE 14-20-603-712  
LEASE NO. \_\_\_\_\_

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

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 February, 1964,

Agent's address P. O. Drawer 1150 Company PHILLIPS PETROLEUM COMPANY  
Cortez, Colorado Signed [Signature]

Phone 565-3426 Agent's title C. M. Boles, Area Supt.

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF G.S (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)
<b>NAVAJO "K" LEASE</b>										
SW NE 32	42S	26E	1							Drilling at 3961'.

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.

**PLUGGING PROGRAM FORM**

Name of Company Phillips Pet. Co. Verbal Approval Given To: Mr. Bales

Well Name: Navajo K#1 Sec. 32 T. 42S R. 26E County: San Juan

Verbal Approval was given to plug the above mentioned well in the following manner:

Geologic Tops:

- Chinle @ 1900
- De Chelly @ 2880
- Nemora @ 4722
- Top of Esmer @ 5650 → "tight on top"
- Lower Esmer @ 5751
- Interbed shale @ 5798
- Desert Creek @ 5852
- Brook " " @ 5952
- T. D. @ 5962

8 5/8" @ 1628 cement to surface  
 (\*) Water flow 1 cuft/sec began @ 675 (Top of Navajo)  
 (No water flow after setting 8 5/8")

Top has Porosity = 5762 - 5772  
 5774 - 5784  
 initial  
 (\*) DST - 5746 to 5832 = 15 min  
 flowing pressure was 485 psi

U.S.G.S. approved:

- 5700 - 5900 - Cover all porosity on Esmer & cover Desert Creek
- 4680 - 4780 - Nemora
- 2780 - 2980 - De Chelly
- 1575 - 1675 - 1/2 in 1/2 of 1628-8 5/8" cement

30 min SI - 2150 psi  
 90 min flowing - 538 to 1477 psi  
 90 min SI - 2086 psi  
 job surfaced in 7 min, and also at 90 min - test decreased to weak blow-out  
 1800 pt of 40° gravity oil & 1800 pt of salt water  
 117,150 PPM cloud

(\*) No plug at surface in event Navajo might want water

Date Verbally Approved: March 19, 1964 Signed: Paul W. Burchell

90

4.

*J. J. Jernick*  
*S. J. Jernick*  
 260 Glen Lake  
 Swille 4-17-64  
 th.



*File Navajo K II*  
 3 - *Shuttle* *Swamp*  
 2 - *Superior* *Farmington*  
 2 - *Freeman* *Denver*  
 1 - *Lawrence*  
 1 - *E. Griffin* *Swille*  
 1 - *File*

**CHEM LAB**

**WATER ANALYSIS EXCHANGE REPORT**

MEMBER Phillips Petroleum Company      LAB NO. 19656      REPORT NO. \_\_\_\_\_  
 OPERATOR Phillips Petroleum Company      LOCATION SW NE 32-42S-26E  
 WELL NO. 1 Navajo-K      FORMATION Lower Permian  
 FIELD Midcont.      INTERVAL 5746-5832  
 COUNTY San Juan      SAMPLE FROM District #1  
 STATE Utah      DATE March 27, 1964

REMARKS & CONCLUSIONS: Recovered 1,800' green oil & 1800' salt water. Sample from approximately 90' above tool.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	32,026	1,393.05	Sulfate	950	19.76
Potassium	326	8.35	Chloride	64,800	1,827.36
Lithium	10	1.44	Carbonate	-	-
Calcium	5,339	266.42	Bicarbonate	232	3.80
Magnesium	2,210	181.66	Hydroxide	-	-
Iron	present	-	Hydrogen sulfide	absent	-
Total Cations		1,850.92	Total Anions		1,850.92

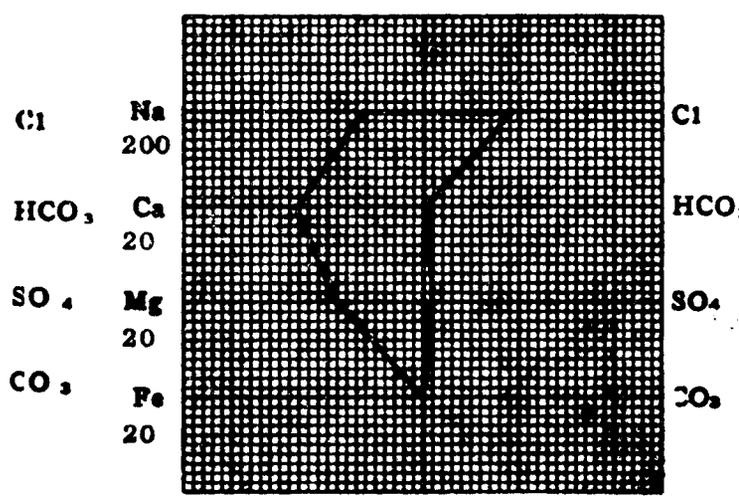
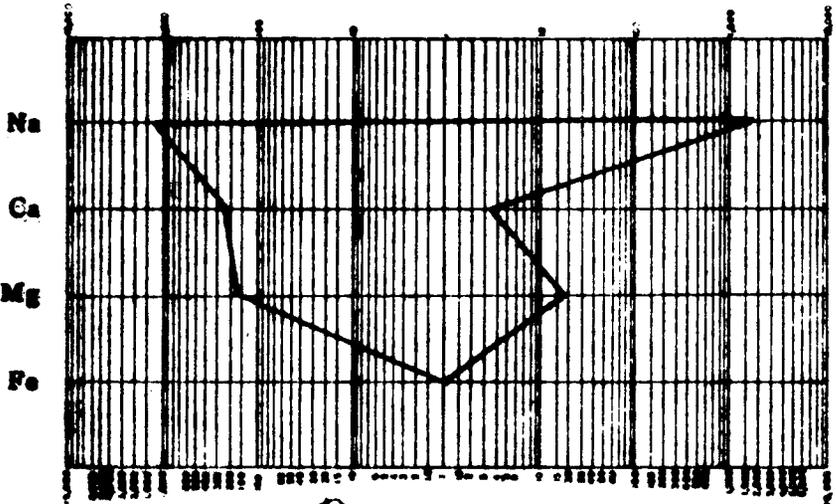
Total dissolved solids, mg/l . . . . . 105,775      Specific resistance @ 68°F.:  
 NaCl equivalent, mg/l . . . . . 107,192      Observed . . . . . 0.082 ohm-meters  
 Observed pH . . . . . 7.3      Calculated . . . . . 0.083 ohm-meters

**WATER ANALYSIS PATTERNS**

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter (ppm). Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

APR 1 1964 S.S.

*WV* *WV*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ALLOTTEE Tribal  
TRIBE Navajo  
LEASE NO. 14-20-603-712

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

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 March, 1964,

Agent's address P. O. Drawer 1150 Company PHILLIPS PETROLEUM COMPANY  
Cortez, Colorado

Phone 565-3426 Signed G. M. Boies Agent's title Area Superintendent

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)
<b>NAVAJO "K" LEASE</b>										
SW NE 32	42S	26E	1							Drilled to 5962', set and cemented 5-1/2" casing at 5960', perforated 5-1/2" casing 5764-66' (4 shot/ft). Acidized with 200 gals 15% HDA acid. Swab testing at end of month.

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.



*Dist - 3 Hundle* WATER ANALYSIS EXCHANGE REPORT

*2 Superior*  
*2 - Freeman*  
*1 - Freeman*  
*1 - Superior*  
*1 - Hill*

*1 - E D Parsons*  
*260 Chem Lab*  
*R.P.C.*  
*B.ville*

MEMBER Phillips Petroleum Company LAB NO. 19729 REPORT NO. \_\_\_\_\_  
 OPERATOR Phillips Petroleum Company LOCATION SW NE 32-42S-26E  
 WELL NO. 1 Navajo K FORMATION Lower Ismay  
 FIELD Wildcat INTERVAL 5764-5766  
 COUNTY San Juan SAMPLE FROM Stock Tank  
 STATE Utah DATE April 27, 1964

REMARKS & CONCLUSIONS: Light brown water; clear filtrate.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	35,718	1553.72	Sulfate	763	15.87
Potassium	300	7.68	Chloride	73,000	2058.60
Lithium	3	0.43	Carbonate	-	-
Calcium	5,901	294.46	Bicarbonate	329	5.40
Magnesium	2,720	223.58	Hydroxide	-	-
Iron	present	-	Hydrogen sulfide	absent	-
Total Cations		2079.87	Total Anions		2079.87

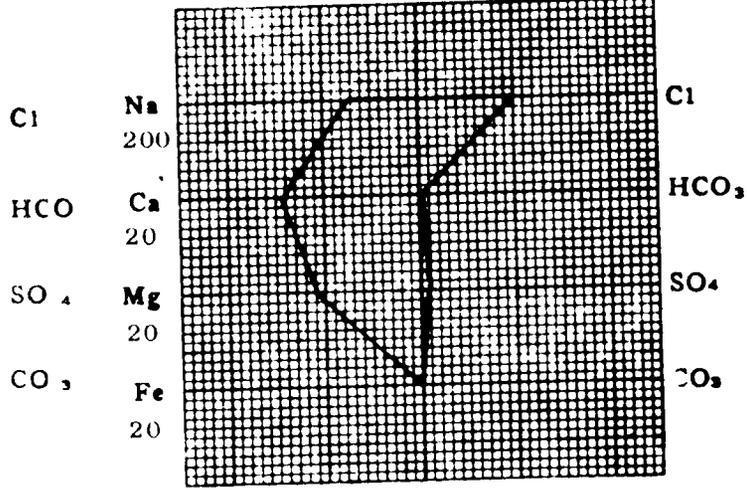
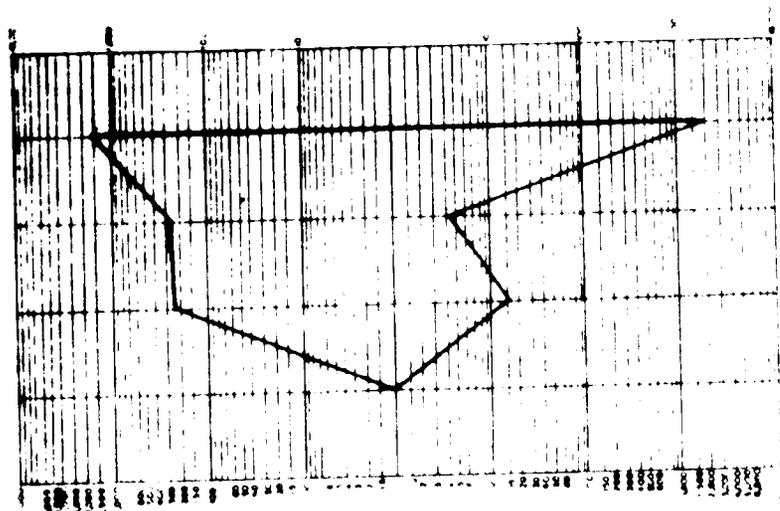
Total dissolved solids, mg/l 118,597 Specific resistance @ 68°F  
 NaCl equivalent, mg/l 120,537 Observed 0.079 ohm-meters  
 Observed pH 7.1 Calculated 0.077 ohm-meters

**WATER ANALYSIS PATTERNS**

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)  
 NOTE Mg/l Milligrams per liter (ppm) Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent by Dunlap & Pawthorne calculation from components

*34*

*Cart H. L. C.*

Budget Bureau No. 42-B714A  
Approval expires 12-31-60.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ALLOTTEE Phillips  
TRUCK 12-30-60  
LEASE NO. 12-30-60

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

WETA 6  
3267

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 April, 19 64

Agent's address P. O. Drawer 1150 Company Phillips Petroleum Co.  
Cortez, Colorado

Phone 565-3426 Signed [Signature]  
Agent's title Area Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousand)	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)
<b>NAVAJO "K" LEASE</b>										
1 NE 32	42S	26E	1							Shut down - waiting on production equipment to test well.

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 1  
(Other instructions  
reverse side)

FE\*  
re-

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

24-20-603-712

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

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

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR  
**Phillips Petroleum Company**

8. FARM OR LEASE NAME  
**Navajo "K"**

3. ADDRESS OF OPERATOR  
**P. O. Drawer 1150, Cortez, Colorado**

9. WELL NO.  
**1**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
**1820' FNL, 1940' FEL, Sec. 32-42S-26E, SLN, San Juan County,  
Utah.**

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**NE/4 Sec. 32-42S-26E, SLN**

14. PERMIT NO.  
**-**

15. ELEVATIONS (Show whether DF, RT, GI, etc.)  
**4749 DF**

12. COUNTY OR PARISH  
**San Juan Co.**

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)

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.)\*

Spudded at 9:30 P.M. 2/20/64. Drilled 12 1/2" hole to 175', reamed 12 1/2" hole to 17 1/2" hole to 175'. Set and cemented 6 jts. 160.47' of 13-3/8" OD 8rd thd ST&C, 48# H-40 SS Rg 2 Cond. 1 casing at 174' with 175 sks. common cement with 2% CC. Displaced cement to 150'. Job completed 4:30 P.M. 2/21/64. Waited on cement 12 1/2 hrs. Nippled up 12" BOP. Tested casing and rams with 500# for 30 mins. and held O.K.

Drilled 11" hole to 1639'. Had heavy flow of water 675' to 1639' - 10 min Shut In Pressure of water flow - 75#. Checked flow at rate of 1 cu.ft./sec. 15,400 BPD. Set 2 jts. (50.56') of 8-5/8" OD 8rd thd ST&C, 24#, J-55, SS, Rg 2, Cond. 1 casing and 49 jts (1562.10') of 8-5/8" OD, 8rd thd, ST&C, 28#, H-40, SS, Rg 2, Cond 1 casing, total 51 jts (1612.66') at 1628'. Mixed 100 bbls of 70 viscosity mud. Pumped mud in casing ahead of cement. Mixed 410 sks. regular cement, 150 sks. Diacel "D" (1000 cu.ft. of 20% Diacel "D"), with 640# CC, 800# Tuff Plug, 200# Floccle followed with 200 sks common cement. Pumped plug to approximately 1120' and S.D. due to excessive pressure of 2600#. Circulated estimated 250 cu.ft. of cement to surface. Water flow was dead. Used 20 sks. common cement with 2% CC to keep hole full at surface. Job complete at 10:40 AM 2/23/64. Waited on cement 12 hrs. Nippled up 10" braden head flange & BOP (RKB to ground 11.50').\* Tested casing & rams 1000# for 30 mins. & held OK. Drilled 7-7/8" hole to 2540'. Changed to 7-5/8" bit and drilled 7-5/8" hole to 5735'. Cored 5735' to 5762', out 27', recovered 24', 16' shale, 8' lime with spotty & weak fluorescence in bottom 3'. Cored 5762 to 5787', recovered 22' - 16' of lime, bleeding oil & gas, poor to good pore porosity, fair fluorescence, dead oil, 6' dense lime, no show. Cored 5787 to 5832, rec. 48' (3' from previous core) 9' dense lime, no shows, 39' shale. (Continued on reverse)

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

SIGNED C. M. Boles  
C. M. Boles

TITLE Area Superintendent

DATE 5-27-64

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*(RT to GR 10.30) (DF to CE 9.30)

\*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-686229

Reamed cored hole 5735 to 5832' to 7-5/8" hole. Drilled 7-5/8" hole to 5924'. Ran Halliburton DST #1 on 4 1/2" DP at 5745-5832' in Lower Ismay as follows: 5/8" Bottom Choke, 1" Top Choke, opened tool for 5 mins. initial flow. Had strong blow of air throughout. Closed tool for 30 mins. ISIP. Gas surfaced in 7 mins. from time tool originally opened. Opened tool for 90 mins final flow. Had strong blow of gas when tool opened. Decreased to very weak blow at end of flow period. Closed tool for 90 min. FSIP. Had weak blow of gas bleeding from drill pipe during entire 90 min. SI period. Pulled packers loose and pulled 17 stands of DP (approximately 4200' of pipe in hole above tool) and gas-cut rathole mud started kicking from DP. Opened circulating sub and reversed out test. Recovered gas-cut rathole mud followed by estimated 1800' of 40 gravity pipeline gravity oil; followed by estimated 1800' of salt water, chlorides 117,150 ppm. Estimated recovery was 25 1/2 BO and 25 1/2 BSW. Transition from pipeline oil to approximately 95% SW occurred in estimated 3 bbls. of flow. Bottom of Salt Water column was 100% SW. Pulled out of hole. Initial 5 min. flowing pressure 455 psi, 30 min. ISIP 2150 psi; 90 min. FFP 538 psi to 1477 psi; 90 min. FSIP 2086 psi; Hydrostatic mud pressure 3099 psi. Drilled 7-5/8" hole to 5960'. Reached TD 5:00 PM 3/18/64. Ran Schlumberger IES and Gamma Ray Sonic with Microcaliper logs. Schlumberger TD 5952'. Set and cemented 186 jts 5 1/2" casing as follows:

Bottom 16 jts 15.5# J-55 8rd thd Rg 2 Cond. 1	528.90
Middle 168 jts 14# J-55 8rd thd Rg 2 Cond. 1	5365.87
Top 2 jts. 15.5# J-55 8rd thd Rg 2 Cond. 1	66.67
	<hr/>
	5961.44
Baker differential float collar & guide shoe.	2.50
	<hr/>
	5963.94
Cut off	15.44
	<hr/>
	5948.50
Below RKB	11.50
Casing set RKB	<hr/>
	5960.00

with 220 cu.ft. 20% Diacel "D" with 2% CC (90 sks. regular cement, 1700# Diacel "D"; 180# CC). Pumped plug with water to 5892' with 1850# Maximum Pressure. Float did not hold when pressure released. Pressured up to 800# and left pressure on casing. Job completed at 4:00 P.M. 3-20-64.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN T. REVERSE SIDE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-712

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo "K"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NE/4 Sec. 32-42S-26E, S1M

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Drawer 1150, Cortez, Colorado

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

1820' FNL, 1940' FEL, Sec. 32-42S-26E, S1M, San Juan County, Utah

14. PERMIT NO.

-

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

4749 DF

12. COUNTY OR PARISH

San Juan Co.

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)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Supplementary Well History

(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.)\*

Moved in and rigged up R&R Well Service Co. 3-26-64. Installed Well Type E pumping and Shaffer BOP. Ran Lane Wells Gamma Ray Collar Locator Log 5866 to 5600'. Checked top cement inside 5 1/2" casing at 5866'. Perforated 5 1/2" casing with 4 Lane Wells NCF2 jet shots per foot at 5764-5766' BL & RL Measure (Top of Lower Ismay Section). Ran Baker BHJ Hookwall packer on 2" tubing. Set packer at 5697', bottom tubing at 5830' - swabbed dry in 4 hrs. No fluid recovery. Had slight show of gas, trace of oil. Shut in 14 hrs, TP 0#. Ran swab, had 500' SW in tubing with estimated 5 gallons oil; swabbed tubing dry. Acidized with 200 gals. Dowell 15% BDA acid as follows: Spotted acid on perforations. Pressured up to 1900# and formation broke to 0#. Pumped acid into formation on vacuum. Job complete at 10:05 AM 3/28/64. Left acid in formation 1 hr, 55 min. Swabbed load and acid water back in 1 hr, 20 mins. Swabbed 2 hrs, recovered 9 BO, 13 BSW. SI 15 mins TP 40#. 3/29/64. SI 14 hrs overnight TP 175# fluid at 400'. Swabbed 7 hrs to 480', recovered 19 BO, 70 BSW. 3/30/64. SI 14 hrs overnight TP 150#, fluid at 800'. Swabbed to bottom in 4 hrs. Swabbed 4 hrs from bottom, recovered 14 BO, 70 BSW. Swab tested to 4/2/64 & acidized perfs. 5764-66 with 2500 gals. Dowell 15% HCL acid as follows: 4/3/64: Spotted acid on formation, set packer, filled annulus w/5 BW. Pumped acid into formation in 2 hrs, 48 mins. at 0#. Job completed 10:23 AM 4/3/64. Swabbed 4 hrs, rec. 70 BL and AW. Fluid level at 2000' - show gas & trace of oil. 4/5/64: SI 15 hrs, TP 240#, FL at 1000'. Swabbed 9 hrs, rec. 168 BSW, 25 BO, Fluid level at 3000'. Swab tested through 4/8/64 and SI installing Tank Battery and placing on pump. Started pumping 12:00 Noon May 15, 1964.

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

SIGNED

G. M. Boles

TITLE

Area Superintendent

DATE

5-27-64

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Key

Copy of

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPROVED: W. H. ...  
TITLE: ...  
LEASE NO. 1-20-402-723

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

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 May, 1964,

Agent's address P. O. Drawer 1150 Company PHILLIPS PETROLEUM COMPANY  
Cortez, Colorado Signed C. M. ...

Phone 565-3426 Agent's title Area Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousand)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling depth; if shut down, cause; date and results of test for gasoline content of gas)
<u>NAVAJO "K" LEASE</u>										
<u>SW NE 32</u>	<u>42S</u>	<u>26E</u>	<u>1</u>	<u>16</u>	<u>3140</u>	<u>41</u>	<u>603*</u>		<u>4392</u>	Well completed and placed on pump 5-15-64.
							*Includes estimated 160 MCF gas used on lease			

NOTE.—There were 2747.80 runs or sales of oil; None M. cu. ft. of gas sold;

None 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.



PHILLIPS PETROLEUM COMPANY  
P. O. Drawer 1150  
Cortez, Colorado

June 25, 1964

Utah Oil & Gas Conservation Commission  
310 Newhouse Building  
Salt Lake City, Utah

Attention: Mr. Harvey L. Coonts

Gentlemen:

This is in answer to your letter dated June 10, 1964, concerning the recently completed Navajo "K" No. 1 Well, located in Section 32, T42S, R26E, San Juan County, Utah. Production from this well has continued to decline since completion, and at present is pumping 65 BOPD and 220 BWPD. At the present time we are disposing of the salt water by use of earthen pit.

It is anticipated that we will commence drilling a new well in the area within 45 days and sufficient surface pipe will be set to adequately protect fresh water zones. In the event this new well is completed as a producer, then the salt water production can be injected downhole between surface and production casing strings. In event the new well is dry, then it can be utilized as a salt water disposal well.

You noted in your subject letter that you would be in this area in the near future to inspect the well site. We will be happy to meet you at your convenience and discuss this matter further.

Very truly yours,  
PHILLIPS PETROLEUM COMPANY

C. M. Boles  
Area Superintendent

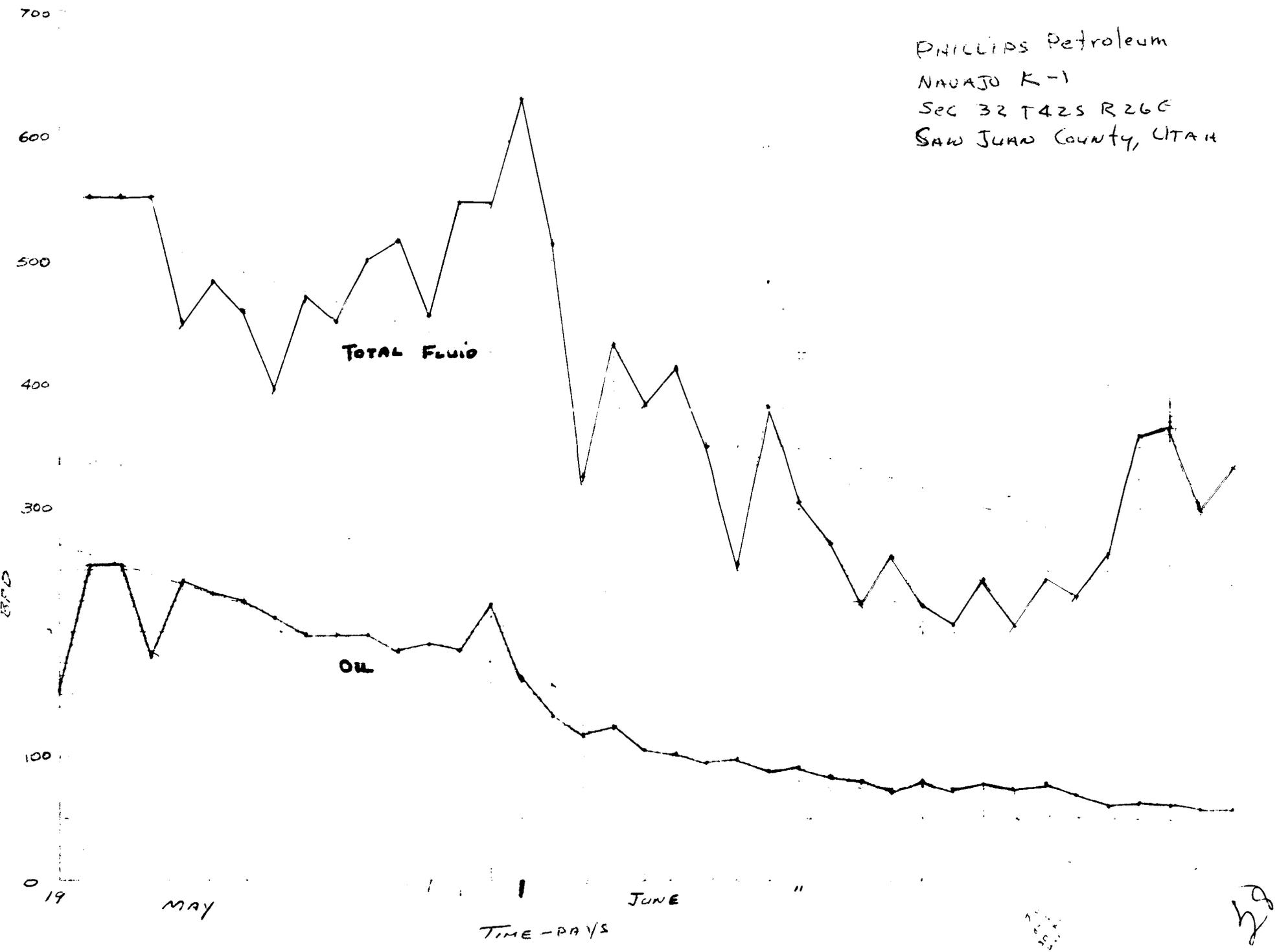
FRD:bh

55

12.



PHILLIPS Petroleum  
NAVAJO K-1  
SEC 32 T42S R26E  
SAW JUAN COUNTY, UTAH



82

2 copies of 8-11

PMU

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
310 NEWHOUSE BUILDING  
SALT LAKE CITY 11, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Navajo "K" No. 1

Operator Phillips Petroleum Co. Address Cortez, Colorado Phone 565-3426

Contractor Arapahoe Drilling Co. Address Denver, Colo. Phone -

Location: SW 1/4 NE 1/4 Sec. 32 T. 42 N R. 26 E San Juan County, Utah.  
S W

Water Sands:

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	675	1639	10 min SI 75 psi rate of flow 1 cu.ft./sec. 15,400 BPD	fresh
2.				
3.				
4.				
5.				

(Continued on reverse side if necessary)

Formation Tops:

Navajo top not discernable from samples, water flow encountered at 675' RKB.  
DeChelly top at 2880'. Did not flow against hydrostatic head of 10.4 to 10.6#/gal.  
drilling fluid.

Remarks:

No other water flows encountered.

APR 20 1964

**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)

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**MUDDING AND CEMENTING RECORD**

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	174	175 sx con, 25 cc	Circulated		
8-5/8	1622	410 sx con, 150 cc Dis. D. 640 cc, 800 Tuff. Plug 2317. Floccs followed x/200 sx con.	Circulated		
5-1/2	5960	90 sx con, 700/ DELUGS AND ADAPTERS			

Heaving plug - Material: \_\_\_\_\_ Length: \_\_\_\_\_ Depth set: \_\_\_\_\_  
 Adapters - Material: \_\_\_\_\_ Size: \_\_\_\_\_

**SHOOTING RECORD**

Shot	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

**TOOLS USED**

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

**DATES**

Put into production \_\_\_\_\_  
 The production for the first \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity: \_\_\_\_\_  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_

**EMPLOYEES**

\_\_\_\_\_  
 \_\_\_\_\_ Driller  
 \_\_\_\_\_ Driller  
 \_\_\_\_\_ Driller

**FORMATION RECORD**

FROM	TO	TOTAL FEET	FORMATION
1900	2880	980	Chinle
2880	3115	235	Bethelby
3115	4732	1617	Organ Rock
4732	5650	918	Marion
5650	5798	148	Isaac
5798	5852	54	Gothis
5852	5962	110	Desert Creek
5962			T.D.

Gamma Ray Microalifer logs. Schlumberger TD 5962'. Set and cemented 186 jts. 5-1/2" casing as follows:

Bottom 18 jts. 15.5' - 55' 1st and 2nd Bg 2 Cond. 1	528.90
Middle 168 jts. 15.5' - 55' 1st and 2nd Bg 2 Cond. 1	5365.87
Top 2 jts. 15.5' - 55' 1st and 2nd Bg 2 Cond. 1	66.67
	<u>5961.44</u>
Baker Differential float collar and guide shoe	2.50
	<u>5963.94</u>
	15.14
	<u>5948.80</u>
	11.50
	<u>5960.30</u>

**HISTORY OF OIL OR GAS WELL**

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was attached or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

with 220 cu. ft. 20% Diacel "D" with 27% (90 sacks regular cement, 1700# Diacel D, 180# Calcium Chloride). Pumped plug with water to 5892' with 1850# maximum pressure. Plug did not hole when pressure released. Pressured up to 800# and left pressure on casing. Job completed at 4:00 P.M. 3-20-64.

Moved in R&R Well Service Co. Unit and rigged up 3-26-64. Installed Wall Type E pumping head and Shaffer Blow Out Preventer. Ran Lane Wells Gamma Ray Collar Locator Log 5866 to 5600'. Checked top cement inside 5/2" casing at 5866'. Perforated 5/2" casing with 4 Lane Wells NCF2 jet shots per foot at 5764-5766' RL and RL measure. (Top of Lower Issay Section). Ran Baker EGS hookwall packer on 2" tubing. Set packer at 5697', bottom tubing at 5830' - swabbed dry in 4 hours. No fluid recovery. Had slight show of gas, trace of oil. Ran swab. Had 500' salt water in tubing with estimated 5 gallons oil. Swabbed tubing dry. Acidized with 200 gallons Dowell 15% BDA acid as follows: Spotted acid on perforations. Pressured up to 1900# and formation broke to top. Pumped acid into formation on vacuum. Job complete at 10:05 AM 3-28-64. Left acid in formation 1 hr - 55 minutes. Swabbed load and acid water back in 1 hour 20 minutes. Swabbed 2 hours, recovered 9 BO, 13 BSW. Shut in 45 minutes, TP 40#. 3/29/64: Shut in 14 hrs overnight, TP 175#, Fluid at 400', swabbed 7 hrs to 400', recovered 19 BO, 70 BSW. 3-30-64: Shut in 14 hrs, overnight, TP 150#, Fluid at 800'. Swabbed to bottom in 4 hours. Swabbed 6 hrs from bottom, recovered 14 BO, 70 BSW.

Swab tested to 4/2/64 and acidized perforations 5764-5766 with 2500 gallons Dowell 15% HCL acid as follows: 4/1/64 spotted acid on formation, set packer, filled annulus with 5 BW - pumped acid into formation in 2 hrs, 43 minutes at 0#. Job completed 10:23 A.M. 4/3/64. Swabbed 4 hrs, recovered 70 Bbls lead acid water. Fluid level at 2000'. Show gas and trace of oil. 4/5/64 Shut in 15 hrs, TP 240#. Fluid level at 1000'. Swabbed 9 hrs, recovered 168 BSW, 25 BO. Fluid level at 3000'. Swab tested through 4/8/64 and shut in installing tank battery and placing on pump. Started pumping 12:00 noon 5/15/64.


GEOLOGICAL SURVEY  
DEPARTMENT OF THE INTERIOR  
UNITED STATES

OFFICE OF THE DIRECTOR  
WASHINGTON, D. C.  
1964

FORMATION RECORD—Continued

10-13647-2

JUN 8 1964

FROM-	TO-	TOTAL FEET	FORMATION
<u>HISTORY OF OIL WELL</u>			
Spudded at 9:30 P.M. 2-20-64. Drilled 12" hole to 175'. Beamed 12" hole to 174" hole to 175'. Set and cemented 6 joints 160.47' of 13-3/8" OD 8rd thd ST&C 48# H-40 SS Rg 2 Condition 1 casing at 174' with 175 sacks common cement w/2% Calcium Chloride. Displaced cement to 150'. Job completed at 4:30 P.M. 2-21-64. Waited on cement 12 hours. Nipped up 12" Blow Out Preventer. Tested casing and rams with 500# for 30 minutes and held O.K.			
Drilled 11" hole to 1639'. Had heavy flow of water 675' to 1639' - 10 minute Shut In Pressure of Water Flow - 75#. Checked flow at rate of 1 cu.ft./second - 15,400 BPD. Set 2 jts (50.56') of 8-5/8" OD 8rd thd ST&C 24# J-55 SS Rg 2 Condition 1 Casing and 49 jts (1562.10') of 8-5/8" OD, 8rd thd, ST&C 24# H-40 SS Rg 2 Condition 1 Casing, Total 51 jts (1612.66') at 1628'. Mixed 100 barrels of 70 Viscosity mud. Pumped mud in casing ahead of cement. Mixed 420 sacks regular cement, 150 sacks Diacel D, (1000 cu.ft. of 20% Diacel D) with 640# Calcium Chloride, 800# Tuif Plug, 200# Flocele, followed with 200 sacks common cement. Pumped plug to approximately 1120' and shut down due to excessive pressure of 2600#. Circulated estimated 250 cu.ft. of cement to surface. Water flow was dead. Used 20 sacks common cement with 2% Calcium Chloride to keep hole full at surface. Job complete at 10:40 A.M. 2-23-64.			
Waited on cement 12 hrs. Nipped up 10" Braden head flange and BOP (RKB to ground 11.50'). (RT to ground 10.30') (DF to ground 9.30'). Tested casing and rams 1000# for 30 minutes and held O.K. Drilled 7-7/8" hole to 2540', changed to 7-5/8" bit and drilled 7-5/8" hole to 5735'. Cored 5735' to 5762', recovered 24' - 16" shale, 8' lime with spotty and weak fluorescence in bottom 3'. Cored 5762' to 5787' - recovered 22' - 16' lime, bleeding oil and gas, poor to good porosity, fair fluorescence, dead oil, 6' dense lime, no show. Cored 5787' to 5832', recovered 45' (3' from previous core) - 9' dense lime, no shows, 39' shale. Reamed cored hole 5735' to 5832' to 7-5/8" hole. Drilled 7-5/8" hole to 5924'. Ran Halliburton DST #1 on 4-1/2" Drill Pipe at 5746-5832 in lower Ismay as follows: 3/8" bottom choke, 1" top choke, opened tool for 5 minutes initial flow. Had strong blow of air throughout. Closed tool for 30 minutes Initial Shut-In Pressure. Gas surfaced in 87 minutes from time tool originally opened. Opened tool for 90 minutes final flow. Had strong blow of gas when tool opened. Decreased to very weak blow at end of flow period. Closed tool for 90 minutes Final Shut-In Pressure. Had weak blow of gas bleeding from drill pipe during entire 90 minute shut in period. Pulled packers loose and pulled 17 stands of Drill Pipe (approximately 4200') of pipe in hole above tool) and gas-cut rathole mud started bleeding from drill pipe. Opened circulating and reversed out test. Recovered gas-cut rathole mud followed by estimated 1800' of 40 gravity pipeline gravity oil, followed by estimated 1100' of salt water; chlorides 117,150 ppm. Estimated recovery was 25-1/2 BO and 25-1/2 BSW. Transition from pipeline oil to approximately 95% salt water occurred in estimated 3 bbls of flow. Bottom of salt water column was 100% SW. Pulled out of hole. Initial 5 minute flowing pressure 455 psi, 30 minute Initial Shut In Pressure 2150 psi, 90 minute Final Flow Pressure 538 psi to 1477 psi, 90 minute FSIP 2086 psi Hydrostatic mud pressure 3099 psi.			
Drilled 7-5/8" hole to 5960'. Ran Schlumberger L&S Cementing Ray Bonic with microcaliper logs. Schlumberger T# 5962'. Set and cemented 126 jts. 5-1/2" casing as follows:			
Bottom 1.6 jts.	15.5# J-55 8rd thd Rg 2 Cond. 1		528.90
Middle 1.68 jts.	14# J-55 8rd thd Rg 2 Cond. 1		5365.87
Top 2 jts.	15.5# J-55 8rd thd Rg 2 Cond. 1		66.67
			5961.44
Baker	Differential float collar and guide shoe		2.50
			5963.94
			13.44
			5948.50

LOG MARK

July 1, 1964

MEMO TO THE COMMISSIONERS:

Re: Phillips Petroleum Company  
Navajo "K"-#1  
Sec. 32, T. 42 S., R. 26 E.,  
San Juan County, Utah

On June 10, 1964, I wrote Phillips Petroleum Company asking them by what method they were disposing of the brine water from the above well. On June 30, 1964, I visited the location with Mr. C. M. Boles, Area Superintendent of Phillips Petroleum Company. The operator is producing oil and water at rates shown on the attached graph. The oil is declining, and the water has been slightly erratic.

The well and earthen pit sit near the San Juan River, (some 300-500 yards away). The water being produced is going into the large pit and is definitely seeping directly into the ground. Subsurface contamination and especially drainage into the San Juan River is definitely a possibility. According to the letter from Phillips Petroleum Company, which is attached, they are presently evaluating the economics and production picture of this well.

After going over the area thoroughly, I am of the opinion that no severe contamination is taking place. However, with operations and brine production continued at or near the present rate, the situation will definitely have to have a better provision for brine disposal. Considering that Phillips is making plans according to the attached letter for some means, I agreed with them that we would wait and see what further developments occur. Meanwhile, we would be in contact with them.

I took pictures of the area, which are part of this report. I have also included the production history and analysis of the produced water as part of this report.

HARVEY L. COONTS  
PETROLEUM ENGINEER

HLC:bc

Enclosures

cc: U. S. Geological Survey  
Box 959  
Farmington, New Mexico

*Handwritten mark*

*Handwritten mark*

*Handwritten mark*

December 3, 1954

Phillips Petroleum Company  
P. O. Box 1150  
Cortez, Colorado

Attention: Mr. Willis Phillips

Re: Navajo K-1  
Sec. 32, T. 42 S., R. 26 E.  
San Juan County, Utah

Dear Mr. Phillips:

In regard to our recent phone conversation, this Commission is concerned with the water disposal problem which has existed at the above well site since earlier this year.

Since your well is producing large quantities of salt water and because of its close proximity to the San Juan River, we feel there is a definite possibility for pollution. If this contamination is of sufficient magnitude to degrade the water quality, some preventive action must be taken in the near future.

We would appreciate any comments regarding proposals for clearing up this situation.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

HARVEY L. GOONTS  
PETROLEUM ENGINEER

HLC:pcp

cc: Water Pollution Control Board  
45 Fort Douglas Boulevard  
Salt Lake City, Utah  
Attn: Mr. Lynn M. Thatcher

July 28, 1964

Mr. Davis checked with the Aneth Operators, and they found out ~~that~~ that the De Chelley in the Aneth contains water with about 10,000 to 25,000 ppm. It gets much fresher as it goes into Arizona. Frank Davis is not going to go to the Water Pollution Board at this time.

Their water is running around 80,000 or more.

10,000 to 25,000 ppm NaCl--80,000 ppm in produced water that is put back into the DeChelley formation.

It might be fresher because it is closer to Arizona.

Phillips Petroleum has backed off. They are now in the process of setting up something else.

They ~~a~~ will convert their present well into <sup>an</sup> injection well. They don't want to go any deeper than the DeChelly for an injection well. That was a little deeper than they had planned to go.

Don't ask for anything for Phillips now. They have backed off until they decide something else. They don't want to go before the Water Pollution Board until they get a good case.

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PHILLIPS PETROLEUM COMPANY  
P. O. Drawer 1150  
Cortez, Colorado

December 14, 1964

Re: Phillips Petroleum Company  
Navajo K-1  
Sec. 32, T42S, R26E  
San Juan County, Utah

Mr. Harvey L. Coonts (3)  
The State of Utah  
Oil & Gas Conservation Commission  
Box 266  
Moab, Utah

Dear Mr. Coonts:

With regard to your letter of December 3, 1964, concerning water disposal at the subject Phillips' operated well, we offer the following comments:

The well was placed on pump May 15, 1964. Production averaged approximately 190 barrels oil and 270 barrels water during the May producing period. There has been a severe drop on production of both oil and water to an average daily production during October, 1964 of 28 barrels oil and 130 barrels water. The well is isolated from other Phillips' operations or operations of any other company, and there is no underground water disposal system available. To provide underground disposal that will meet State of Utah statute requirement that salinity of water disposed be no greater than water of the formation into which it is disposed, would in all probability require the drilling of a disposal well to essentially the same depth as the producing well. Cost to provide such a disposal well would approach the cost of the producer and would be prohibitive in this case.

We fully recognize the hazards of disposal into surface pits and are therefore making frequent inspections of the pit at the Navajo K Lease and of the ground surface between the pit and the San Juan River. The latest inspection was made December 11, 1964. To date we have found no evidence of pollution, and we therefore believe that none is occurring.

Because of the rapid production decline of the well, it can be expected to become uneconomical to operate in approximately one year. The alternative to disposal by present means, which we believe is not causing pollution, would be serious consideration of abandoning the well with resultant loss of revenue to both the Navajo Tribe and Phillips.

(Cont'd page #2)

Mr. Harvey L. Coonts  
Phillips Petroleum Co.  
Navajo K-1  
December 14, 1964

Page No. 2

For the foregoing reasons, we propose to continue the present operation, making frequent inspections for evidence of pollution, until such time as the well becomes uneconomical to operate or until such time as there is physical evidence of pollution such as to dictate the shutting in of the well.

Yours very truly,

PHILLIPS PETROLEUM COMPANY



C. M. Boles  
Area Superintendent

CMB:bh

*Handwritten initials*

December 29, 1964

STAFF MEMO:

Re: PHILLIPS PETROLEUM COMPANY  
Navajo 'K' - #1  
Sec. 32, T. 42 S., R. 26 E.  
San Juan County, Utah

The above well is located near the San Juan River in San Juan County. Earlier this year I inspected the area and noted that the water from this well was being placed in a pit; however, the pit was not retaining any of the water. All of the water was seeping directly into the ground. Since the pit is quite near the river (100-150 yards) the logical assumption would be that some or all of the water is going into the river. However, upon observation of the area there are no signs of this and any contamination would be difficult to prove or disprove.

As stated by Mr. C. M. Boles in the attached letter the well is presently at a very low production rate and should they have to dispose of the water in a different manner, the well would probably have to be abandoned. The only other method of satisfactorily disposing of the water in this area would necessitate the drilling of a disposal well below 2500'.

Considering that the Navajo K-1 well is on its way to depletion and also considering the fact that solid evidence of contamination of nearby waters is not available, it is recommended that the operator be allowed to produce the well until the well is depleted. In the event another well is drilled on the lease, the water could be disposed of in deeper formations through the annulus.

HARVEY L. COONTS  
PETROLEUM ENGINEER

HLC:pcp

2

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE DATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

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.

11-20-603-712

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo "B"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Yellow Spk

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

1/4 Sec. 32-42S-26S, 51N

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Drawer 1150, Cortez, Colorado 81321

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

1820' FEL, 1940' FEL  
Section 32-42S-26S, 51N, San Juan County, Utah

14. PERMIT NO.

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

4749' DF

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

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Add perforations and acidize

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) \_\_\_\_\_

(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.)\*

Add Isany perforations of 5766-71 and 5775-8) and treat well with 6000 gallons of acid.

Present Production: 6 BOPD, 122 BWPD and 6 HCPGPD

APPROVED BY UTAH OIL AND GAS  
CONSERVATION COMMISSION

DATE: April 19, 1966

CHIEF PETROLEUM ENGINEER

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

SIGNED

C. M. Balas

TITLE

District Superintendent

DATE

4-22-66

(This space for Federal or State office use)

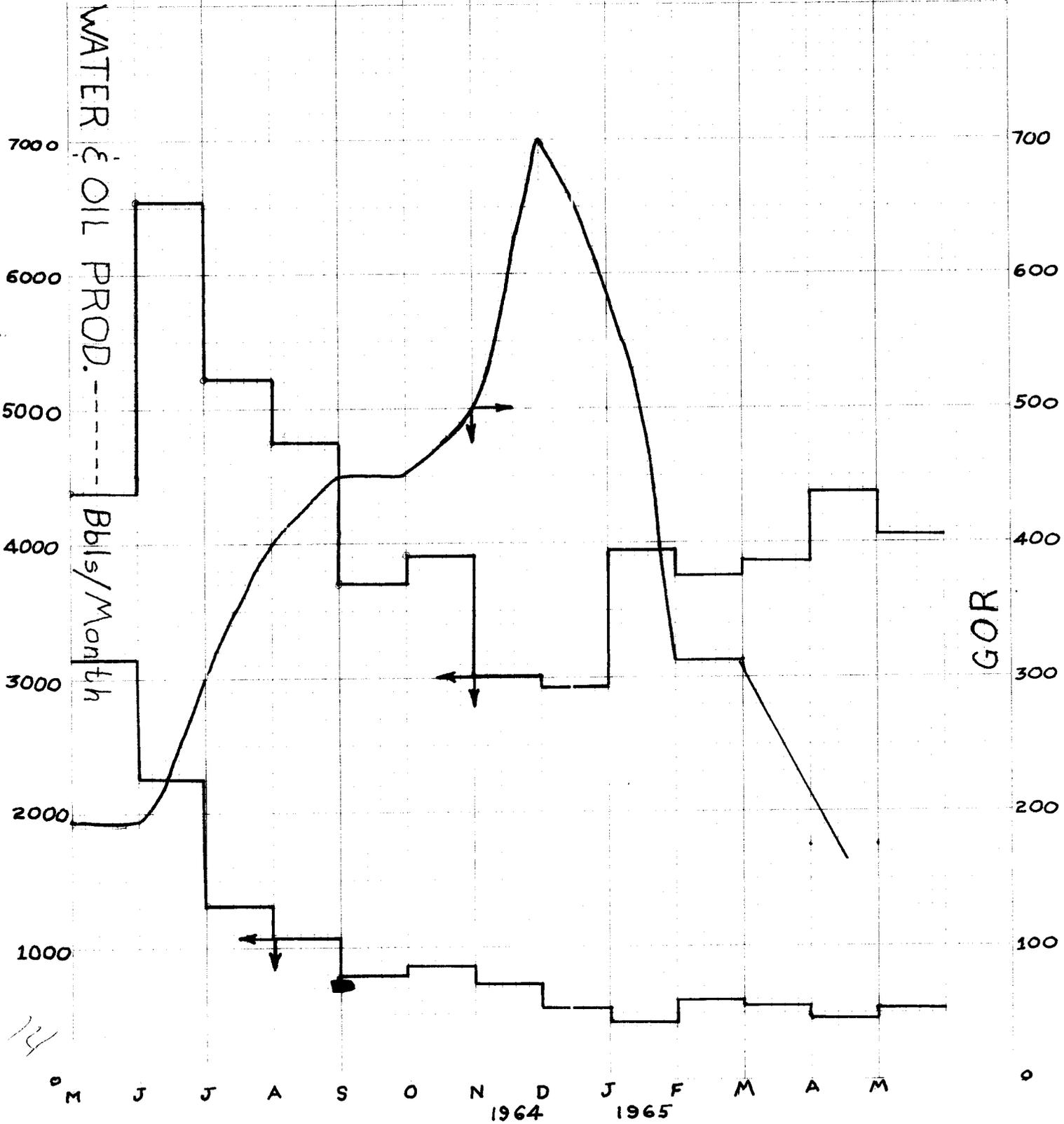
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

PHILLIPS PETROLEUM CORP.  
 Navajo "K"-1  
 Sec. 32, T42S R26E  
 San Juan County, Utah



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>14-30-400-012</b>
2. NAME OF OPERATOR <b>Phillips Petroleum Co.</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo Tribe</b>
3. ADDRESS OF OPERATOR <b>Denver 1150, Carter, Colorado 81321</b>		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1420' FWL, 1940' FSL Sec. 35-42-24, 21N, San Juan County, Utah</b>		8. FARM OR LEASE NAME <b>Navajo #1</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, CR, etc.) <b>4749' DF</b>	9. WELL NO. <b>1</b>
		10. FIELD AND POOL, OR WILDCAT <b>Yellow Rock</b>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 35-42-24, 21N</b>
		12. COUNTY <b>San Juan</b> 13. STATE <b>Utah</b>

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <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.)\*

(4-10-66 through 5-22-66):  
 Moved in well service unit, pulled rods and tubing. Perforated 3/4" casing 5766-971' and 5775-893' with 2 jet shots per foot. Ran tubing and packer, set at 5782'. Acidized all perforations with 3000 gallons 15% acid, 3000 gallons salt water and twenty 7/8" rubber covered nylon balls followed with 3000 gallons 15% regular acid and 6000 gallons salt water. Stabbed well. Pulled tubing and packer, reran tubing and rods. Started pumping.

PREVIOUS PRODUCTION (Isany Formation - Yellow Rock Field): 12 BOPD, 10 MCFD, 124 BHPD.

PRESSENT PRODUCTION (Isany Formation - Yellow Rock Field): 12 BOPD, 10 MCFD, 115 BHPD.

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

SIGNED G. H. Dolan TITLE District Superintendent DATE 5-9-66

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Shurt

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Tribal ALLOTTEE Navajo TRIBE 11-20-68-712 LEASE NO.

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Yellow Rock

The following is a correct report of operations and production (including drilling and producing wells) for the month of June 1969

Agent's address Drawer 1150 Cortez, Colorado 81321 Company Phillips Petroleum Company

Phone (303) 565-3426 Signed C. M. Boles Agent's title District Superintendent

Table with 10 columns: SEC. AND 1/4 OF 1/4, TWP., RANGE, WELL NO., DATE PRODUCED, BARRELS OF OIL, GRAVITY, CU. FT. OF GAS (In thousands), GALLONS OF GASOLINE RECOVERED, BARRELS OF WATER (If none, so state), REMARKS. Row 1: SW NE 32, 42S, 26E, 1, 6, 171, 39, 177\*, 729. Remarks: Well shut down at 7:00 AM on 6/7/69 to comply with USGS orders. Are currently in process of securing partner approval to plug and abandon well.

(\*Includes estimated 60 MCF Gas used on lease.)

Distribution:

- Orig. & 1 cc: USGS, Roswell, N.M.
2 cc: Utah O&GCC, Salt Lake City, Utah
1 cc: Denver
1 cc: Superior Oil Co., Cortez, Colo.
1 cc: File

NOTE.—There were 412 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 TRIP DATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-722

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo "K"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Yellow Rock

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

R1/4 Sec. 32-42S-26E, SIM

12. COUNTY

San Juan

13. STATE

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
Drawer 1150, Cortez, Colorado 81321

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

1820' FNL, 1940' FEL  
Section 32-42S-26E, SIM, San Juan County, Utah

14. PERMIT NO.

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

4749' DF

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 checked="" 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 OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input 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.)\*

Plug well and abandon lease. Plugging procedure to be as follows:

- Set cement retainer at approximately 5610', squeeze 45 sacks cement through retainer and dump 10 sacks above retainer to leave cement in 5 1/2" casing below retainer from 5610' to 5783' and above retainer from 5550' to 5610'; 2 1/2 sacks squeezed through perforations 5764-5771' and 5775-5783'.
- Load hole with 10.5#/gallon mud.
- Salvage 5 1/2" casing to stuck point (unknown depth).
- Spot approximately 50 sack cement plug to be 50' inside 5 1/2" casing below cut-off and 50' above 5 1/2" casing in open hole. (Calculated cement top in 5 1/2" casing drilled hole minus is 5050'. This would be the maximum conceivable salvage depth.)
- Spot cement plugs at each of the following depths which are above the 5 1/2" casing salvage depth:
  - 70 sack cement plug at 4800' to 4650'. (Top of Hercules, 4730')
  - 50 sack cement plug at 2980' to 2780'. (Top of DeChelly, 2880')
  - 50 sack cement plug at 1680' to 1565'. (1680' to 1628' in open hole and 1628' to 1565' in 8-5/8" casing which was cemented to surface.)
  - 15 sack cement plug at 50' to surface in 8-5/8" casing. Standard cement well marker to be imbedded in top of this cement plug.

DATE 7-18-69  
BY Paul W. Churchill

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

SIGNED C. M. Deane

TITLE District Superintendent

DATE 7-15-69

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

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

Orig. & 2 cc: USGS, Farmington, NM  
2 cc: Utah O&GCC, Salt Lake City  
1 cc: Denver  
1 cc: File

\*See Instructions on Reverse Side

Schmitt

PS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ALLOTTEE Tribal  
TRIBE Navajo  
LEASE NO. 14-20-603-712

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field Yellow Rock

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1969, Phillips Petroleum Company

Agent's address Drawer 1150 Company \_\_\_\_\_  
Cortez, Colorado 81321 Signed \_\_\_\_\_

Phone (303) 565-3426 Agent's title District Superintendent

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)
<b>NAVAJO "K" LEASE</b>										
SW NE 32	42S	26E	1	0	0		0		0	Preparing to plug well. Well shut down 7:00 A.M. 6-7-69.

Distribution  
Orig. & 1 cc: USGS, Ruswell, N.M.  
2 cc: Utah OGCC, Salt Lake City, Utah  
1 cc: Denver  
1 cc: Superior Oil Co., Cortez, Colo.  
1 cc: File

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

ALLOTTEE Tribal  
TRIBE Navajo  
LEASE NO. 14-20-603-712

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field Yellow Rock

The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1969,

Agent's address Drawer 1150 Company PHILLIPS PETROLEUM CO.  
Cortez, Colorado 81321 Signed C. M. Boles

Phone (303) 565-3426 Agent's title C. M. Boles  
District Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE 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)
<u>NAVAJO "K" LEASE</u>										
SW NE 32	42S	26E	1	0	0		0		0	Well shut down. Preparing to plug.

Distribution:  
Orig. & 1 cc: USGS, Roswell, N.M.  
2 cc: Utah O&GCC, Salt Lake City, Utah  
1 cc: Denver  
1 cc: Superior Oil, Cortez, Colo.  
1 cc: File

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.

October 23, 1969

Robert L. Bayless & Gregory J. Merrian  
P. O. Box 1541  
Farmington, New Mexico 87401

Re: Well No. Navajo "K"-#1,  
Sec. 32, T. 42 S., R. 26 E.,  
San Juan County, Utah

Gentlemen:

Upon checking our files, we note, that your company assumed operations for the above mentioned well effective October 4, 1969.

On July 19, 1969, we received a Notice of Intention to Plug and Abandon from the Phillips Petroleum Company. It would be appreciated if you could advise this office as to the exact status of this well so as to keep our files accurate and complete.

Thank you for your cooperation with respect to this request.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE  
SECRETARY

SD:ah

4

*Submitt*

**ROBERT L. BAYLESS**

PETROLEUM CLUB PLAZA BUILDING  
P. O. BOX 1541  
FARMINGTON, NEW MEXICO 87401

October 29, 1969

State of Utah  
Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Gentlemen:

In reply to your letter of October 23 regarding our Navajo "K" #1 well, we placed this well on production October 7, 1969, and our present plans are to continue producing it for the foreseeable future.

Very truly yours,

MERRION & BAYLESS

  
R. L. Bayless

RLB:mg

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ALLOTTEE Tribal  
TRIBE Navajo  
LEASE NO. U-20-603-712

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field Yellow Rock

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1969

Agent's address P. O. Drawer 1150 Company PHILLIPS PETROLEUM CO.  
Cortez, Colorado 81321 Signed C. M. Boles

Phone (303) 565-3426 Agent's title District Superintendent

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE 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)
<u>NAVAJO "K" LEASE</u>										
SW NE 32	42S	26E	1	0	0		0		0	Well shut down for first three days of October 1969. Lease sold and operations turned over to Robert L. Bayless and Gregory J. Merrian, P.O. Box 1541, Farmington, New Mexico 87401, effective 8:00 A.M. 10/4/69. <u>FINAL PHILLIPS PETROLEUM CO. REPORT.</u>
							<u>Distribution:</u> Orig. & 1 cc: USGS, Roswell, N.M. 2 cc: Utah O&GCC, Salt Lake City, Utah 1 cc: Denver 1 cc: Superior Oil Co., Cortez, Colo. 1 cc: File			

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.



CALVIN L. RAMPTON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE  
SALT LAKE CITY, UTAH 84116  
328-5771

OIL & GAS CONSERVATION BOARD

DELBERT M. DRAPER, JR.  
Chairman

CHARLES R. HENDERSON  
ROBERT R. NORMAN  
WALLACE D. YARDLEY  
WESLEY R. DICKERSON

June 8, 1970

Robert L. Bayless  
Petroleum Club Plaza Building  
P.O. Box 1541  
Farmington, New Mexico 87401

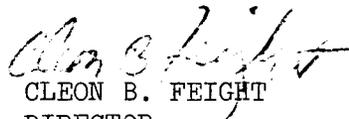
Re: Navajo C-1  
Sec. 20, T. 42 S., R. 26 E.,  
San Juan County, Utah

Dear Sir,

No objections having been received, approval is hereby granted in accordance with the provisions in Rule C-11 of the General Rules and Regulations, to utilize the above mentioned well as a salt water disposal well.

Respectfully yours,

DIVISION OF OIL & GAS CONSERVATION

  
CLEON B. FEIGHT  
DIRECTOR

CBF:jw

cc: W.C. McBride, Inc.

25 North Brentwood  
St. Louis, Missouri

Monsanto Company

Attn: William T. Orr  
Lincoln Tower Building  
Denver, Colorado

U.S. Geological Survey

Attn: Mr. Phillip T. McGrath  
Box 959  
Petroleum Club Plaza Building  
Farmington, New Mexico



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

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

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

April 14, 1982

Merrion Oil and Gas Corporation  
P.O. Box 1017  
Farmington, New Mexico

15762

RE: Navajo K Well  
SWNE Sec. 32, T42S, R26E  
San Juan County, Utah

Gentlemen:

An inspection was made April 13, 1982, of your Navajo K Well site. Produced brine water was being discharged into an unlined evaporation pond. There was evidence that this impoundment had recently breached and the contents spilled into the natural drainage system. This method of disposal is contrary to regulations recently adopted by the State Department of Health.

The Division recommends this well be shut-in until such time arrangements can be made for proper disposal. This water should be injected into a well approved by the Division of Oil, Gas and Mining, hauled to an approved site, or put into a disposal pond approved by the Health Department.

If you have any questions, please call.

Sincerely,

GILBERT L. HUNT  
UIC Geologist

cc: Calvin Sudweeks, Health Dept.  
GLH:SC

MERRION OIL & GAS CORPORATION  
P. O. BOX 1017  
FARMINGTON, NEW MEXICO 87401

May 28, 1982

State of Utah  
Natural Resources and Energy  
4241 State Office Building  
Salt Lake City, Utah 84114

Attention: Mr. Gilbert L. Hunt  
UIC Geologist

Re: Navajo K Well  
SW NE Section 32, T42S, R26E  
San Juan County, Utah

Gentlemen:

Pursuant to your letter of April 14, 1982, we shut this well in on April 18, 1982. It was determined that our problems were caused by a malfunctioning heater treater.

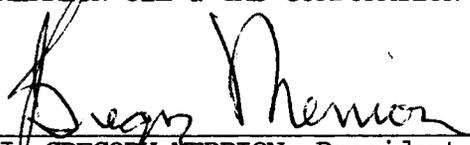
The heater treater has been replaced, a high level shut down switch installed on the salt water holding tank and the pit has been cleaned out.

Our water is being disposed of by injection into the Navajo C-1. Approval for that was given June 8, 1970, by the State of Utah.

Pursuant to your permission by telephone today, we are now again producing.

Yours very truly,

MERRION OIL & GAS CORPORATION

  
\_\_\_\_\_  
J. GREGORY MERRION, President

JGM/am

Enc.

**RECEIVED**  
JUN 01 1982

**DIVISION OF  
OIL, GAS & MINING**

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

**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.)

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Merrion Oil &amp; Gas Corporation</p> <p>3. ADDRESS OF OPERATOR P. O. Box 1017, Farmington, New Mexico 87499</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1820' FNL and 1940' FEL</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. 14-20-603 -712</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Navajo K</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Yellow Rock</p> <p>11. SEC., T., E., M., OR BLK. AND SURVEY OR ARRA Sec. 32, T42S, R26E</p> <p>12. COUNTY OR PARISH San Juan</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4749' DF</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input 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.)\*

- Plugged as follows:
1. Set plug from 5700' to PBID with 16 sx cement (19 cu. ft.).
  2. Set plug from 4682 to 4782' KB with 12 sx cement (14 cu. ft.).
  3. Shot off 5-1/2" casing @ 2113' KB. Placed cement plug 50 ft. inside and 50' on top of stub with 44 sx cement (51 cu. ft.).
  4. Set plug from 1850 to 1950' KB with 75 sx cement (89 cu. ft.).
  5. Set plug from 1578 to 1678' KB with 54 sx cement (63 cu. ft.).
  6. Set plug from 124' to 224' KB with 31 sx cement (37 cu. ft.).
  7. Set plug from surface to 50' KB with 16 sx cement (19 cu. ft.).
  8. Erected dry hole marker.

**ACCEPTED**  
**APPROVED BY THE STATE:**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**  
DATE: 4/26/83  
BY: [Signature]

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

SIGNED [Signature] TITLE Operations Manager DATE 4/26/83

(This space for Federal or State office use)

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