

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN THE MANNER INDICATED*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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.

NM-0257272

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

N.M. OIL CONS. COMMISSION
P.O. BOX 1980

HOBBS, NEW MEXICO 88240

9. FARM OR LEASE NAME

Hat Mesa "Com"

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Hat Mesa Morrow

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

Sec. 11, T-21-S, R-32-E

12. COUNTY OR PARISH

Lea

13. STATE

NM

1. OIL WELL ☒ GAS WELL ☒ OTHER ☒
2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
4001 Penbrook Street, Odessa, Texas 79762

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

Tank Battery located at Hat Mesa "Com" Well No. 2
660' FSL & 1980' FWL

14. PERMIT NO.

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

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) NTL2B

PLUG OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

X

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.)*

Pleased be advised that the produced water from the Hat Mesa "Com" Well No. 2 will be disposed of as follows:

The name of the produced water is Morrow. The amount of produced water from this well is expected to be 5 BWPD.

A water analysis of the produced water is attached.

Water is stored in a 210-barrel steel tank.

Water will be moved to the disposal facility by trucks.

The Operator of the facility is Phillips Petroleum Company. The facility is the James A St. No. 12W located in the SE 1/4 SE 1/4 of Sec. 2, T-22-S, R-30-E, Eddy Co., NM. The James A 12W water injection well is part of Phillips Petroleum Company's James A State Pressure Maintenance Project. The purpose of the project is to maintain reservoir pressure in the Delaware formation in the pilot area (SE 1/4 SE 1/4 of Sec. 2) in the Cabin Lake (Delaware) Field. Phillips received authorization for the project via NMOC Order R-9500.

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

SIGNED

L. M. Sanders
L. M. Sanders

TITLE

Supv. Regulatory Affairs

DATE

12-28-93

(915) 368-1488

(This space for Federal or State office use)

APPROVED BY

Orig. Signed by Shannon J. Shaw

TITLE

PETROLEUM ENGINEER

DATE

1/12/94

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



GP.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

W A T E R A N A L Y S I S R E P O R T

Report for: Randall Smith
cc: Scott Mallone
cc: Pat Culpepper
cc:
Company: Phillips
Address:
Service Engineer: K. Kearney

Date sampled: 12-14-93
Date reported: 12-20-93
Lease or well # : Hat Mesa #2
County: State:
Formation:
Depth:
Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	200	6
Iron (Fe) (total)	39.0	
Total hardness	330	
Calcium (Ca)	40	2
Magnesium (Mg)	55	4
Bicarbonates (HCO ₃)	134	2
Carbonates (CO ₃)	0	
Sulfates (SO ₄)	40	1
Hydrogen sulfide (H ₂ S)	7	
Carbon dioxide (CO ₂)	733	
Sodium (Na)	50	2
Total dissolved solids	520	
Barium (Ba)	0.3	
Strontium (Sr)	1	
Specific Gravity	1.000	
Density (#/gal.)	8.334	
pH	7.060	
IONIC STRENGTH	0.01	

Stiff-Davis (CaCO₃) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = -0.31
104 F = -0.09
122 F = +0.14
140 F = +0.38
158 F = +0.62

This water is 2414 mg/l (%-100.00%) under ITS CALCULATED
CaSO₄ saturation value at 82 F.
SATURATION= 2414 mg/L PRESENT= 0 mg/L

REPORTED BY ROBERT C MIDDLETON *Rcm*
TECHNICAL SERVICES REPRESENTATIVE



GP.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: Randall Smith
cc: Scott Mallone
cc: Pat Culpepper
cc:
Company: Phillips
Address:
Service Engineer: K. Kearney

Date sampled: 12-14-93
Date reported: 12-20-93
Lease or well #: Four Well Mix
County: State:
Formation:
Depth:
Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	8328	235
Iron (Fe) (total)	22.0	
Total hardness	1425	
Calcium (Ca)	251	13
Magnesium (Mg)	194	16
Bicarbonates (HCO ₃)	204	3
Carbonates (CO ₃)	0	
Sulfates (SO ₄)	10	0
Hydrogen sulfide (H ₂ S)	2	
Carbon dioxide (CO ₂)	588	
Sodium (Na)	4838	210
Total dissolved solids	13825	
Barium (Ba)	8.6	
Strontium (Sr)	33	
Specific Gravity	1.009	
Density (#/gal.)	8.409	
pH	6.983	
IONIC STRENGTH	0.25	

Stiff-Davis (CaCO₃) Stability Index :
SI = pH - pCa - pAlk - K

SI @ 86 F = -0.53
104 F = -0.31
122 F = -0.06
140 F = +0.21
158 F = +0.49

This water is 3427 mg/l (-99.59%) under ITS CALCULATED
CaSO₄ saturation value at 82 F.
SATURATION= 3441 mg/L PRESENT= 14 mg/L

REPORTED BY ROBERT C MIDDLETON *Ram*
TECHNICAL SERVICES REPRESENTATIVE



James 'A' water

GP.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: Randall Smith
cc: Scott Mallone
cc: Pat Culpepper
cc:
Company: Phillips
Address:
Service Engineer: K. Kearney

Date sampled: 12-14-93
Date reported: 12-20-93
Lease or well # : Lost Tank H2O Sta.
County: State:
Formation:
Depth:
Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	175000	4937
Iron (Fe) (total)	4.0	
Total hardness	103000	
Calcium (Ca)	32080	1601
Magnesium (Mg)	5589	449
Bicarbonates (HCO ₃)	40	1
Carbonates (CO ₃)	0	
Sulfates (SO ₄)	149	3
Hydrogen sulfide (H ₂ S)	0	
Carbon dioxide (CO ₂)	1097	
Sodium (Na)	66488	2891
Total dissolved solids	279347	
Barium (Ba)	2.8	
Strontium (Sr)	857	

Specific Gravity 1.199
Density (#/gal.) 9.992
pH 5.900
IONIC STRENGTH 5.97

Stiff-Davis (CaCO₃) Stability Index :

SI = pH - pCa - pAlk - K

SI @ 86 F = +1.08
104 F = +1.31
122 F = +1.57
140 F = +1.86
158 F = +2.18

This water is 608 mg/l (-74.15%) under ITS CALCULATED
CaSO₄ saturation value at 82 F.
SATURATION= 820 mg/L PRESENT= 212 mg/L

REPORTED BY ROBERT C MIDDLETON *Rem*
TECHNICAL SERVICES REPRESENTATIVE



Compatibility - Hat mesa
 Hat mesa A
 Hat mesa 2
 Bilibrey 34-1
 w/ James Wader
 PHONE: (505) 393-7726

GP.O.BOX 2187
 HOBBS, N.M. 88240

W A T E R A N A L Y S I S R E P O R T

Report for: Randall Smith
 cc: Scott Malone
 cc: Pat Culpepper
 cc:
 Company: Phillips
 Address:
 Service Engineer: K. Kearney

Date sampled: 12-14-93
 Date reported: 12-20-93
 Lease or well # : 10% Four Well Mix
 County: State:
 Formation: 90% Lost Tank H2O
 Depth:
 Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	158333	4466
Iron (Fe) (total)	5.0	
Total hardness	93024	
Calcium (Ca)	28897	1442
Magnesium (Mg)	5050	405
Bicarbonates (HCO3)	56	1
Carbonates (CO3)	0	
Sulfates (SO4)	135	3
Hydrogen sulfide (H2S)	0	
Carbon dioxide (CO2)	1046	
Sodium (Na)	60322	2623
Total dissolved solids	252793	
Barium (Ba)	3.4	
Strontium (Sr)	775	
Specific Gravity	1.180	
Density (#/gal.)	9.834	
pH	6.256	
IONIC STRENGTH	5.40	

Stiff-Davis (CaCO3) Stability Index :
 $SI = pH - pCa - pAlk - K$

SI @ 86 F = +1.19
 104 F = +1.42
 122 F = +1.68
 140 F = +1.97
 158 F = +2.29

This water is 540 mg/l (~73.87%) under ITS CALCULATED
 CaSO4 saturation value at 82 F.
 SATURATION= 731 mg/L PRESENT= 191 mg/L

REPORTED BY ROBERT C MIDDLETON *Rem*
 TECHNICAL SERVICES REPRESENTATIVE