

Form 3160-5
November 1983)
Formerly 9-331)

N.M. OIL CONS. COMMISSION
P.O. BOX 1980
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-0257272	
2. NAME OF OPERATOR Phillips Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 4001 Penbrook Street, Odessa, TX 79762		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 Tank Battery located at Hat Mesa Well No. 1 1980' FNL & 1979' FEL		8. FARM OR LEASE NAME Hat Mesa	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether SP, RT, GR, etc.)		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	

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"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	NTL2B	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
PCIL OR ALTER CASING	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
CHANGE PLANE	<input checked="" 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.)*

Pleased be advised that the produced water from the Hat Mesa No. 1 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 less than 1 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 NMOCD Order R-9500.

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

SIGNED L. M. Sanders TITLE Supv. Regulatory Affairs

DATE 12-28-93
(515) 368-1488

(This space for Federal or State office use)

APPROVED BY Orig. Signed by Shannon J. Shaw
CONDITIONS OF APPROVAL, IF ANY:

TITLE PETROLEUM ENGINEER

DATE 1/12/94

*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 #1
County: State:
Formation:
Depth:
Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	40	1
Iron (Fe) (total)	11.0	
Total hardness	50	
Calcium (Ca)	12	1
Magnesium (Mg)	4	0
Bicarbonates (HCO3)	134	2
Carbonates (CO3)	0	
Sulfates (SO4)	0	0
Hydrogen sulfide (H2S)	1	
Carbon dioxide (CO2)	320	
Sodium (Na)	54	2
Total dissolved solids	245	
Barium (Ba)	0.3	
Strontium (Sr)	0	
Specific Gravity	1.000	
Density (#/gal.)	8.334	
pH	6.960	
IONIC STRENGTH	0.00	

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

SI @ 86 F = -0.60
104 F = -0.38
122 F = -0.15
140 F = +0.09
158 F = +0.33

This water is 2413 mg/l (%-100.00%) under ITS CALCULATED
CaSO4 saturation value at 82 F.
SATURATION= 2413 mg/L PRESENT= 0 mg/L

REPORTED BY ROBERT C MIDDLETON *Rom*
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 (HCO3)	204	3
Carbonates (CO3)	0	
Sulfates (SO4)	10	0
Hydrogen sulfide (H2S)	2	
Carbon dioxide (CO2)	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 (HCO3)	40	1
Carbonates (CO3)	0	
Sulfates (SO4)	149	3
Hydrogen sulfide (H2S)	0	
Carbon dioxide (CO2)	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 *Ram*
TECHNICAL SERVICES REPRESENTATIVE



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

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

WATER ANALYSIS REPORT

Report for: Randall Smith	Date sampled: 12-14-93
cc: Scott Malone	Date reported: 12-20-93
cc: Pat Culpepper	Lease or well #: 10% Four Well Mix
cc:	County: State:
Company: Phillips	Formation: 90% Lost Tank H2O
Address:	Depth:
Service Engineer: K. Kearney	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