

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
reverse side)

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

N. M. OIL & GAS
COMMISSION
P. O. BOX 4980

3. LEASE DESIGNATION AND SERIAL NO.

LC 600126

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

HOBBBS, NEW MEXICO 88240

(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

2. NAME OF OPERATOR
Burk Royalty Co.

3. ADDRESS OF OPERATOR
P.O. Box BRC, Wichita Falls, Texas 76307

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
E. 2310/W of 467/10

5. UNIT AGREEMENT NAME
--

8. FARM OR LEASE NAME
Hanson Federal "B"

9. WELL NO.
N/A

10. FIELD AND POOL, OR WILDCAT
Lynch Yates

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
N/2, Sec. 23, T20S, R34E

12. COUNTY OR PARISH
Lea

13. STATE
New Mexico

14. PERMIT NO.

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

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) <u>water production information</u>	

(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.)*

As per BLM's request. The requested information on water production for the Hanson lease is submitted on the attached paperwork.

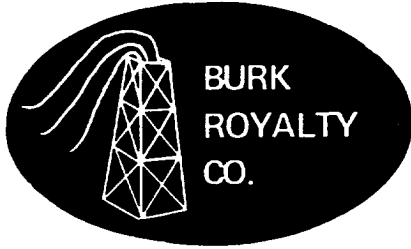
RECEIVED
JUN 3 10 50 AM '93

18. I hereby certify that the foregoing is true and correct
SIGNED David R. Glass TITLE Petroleum Engineer DATE May 25, 1993

(This space for Federal or State office use)
APPROVED BY ORIG. SGD DAVID R. GLASS TITLE Petroleum Engineer DATE JUN 30 1993
CONDITIONS OF APPROVAL, IF ANY:

SEE ATTACHED

*See Instructions on Reverse Side



RECEIVED

MAY 28 3 26 PM '93

BUREAU OF LAND MGMT.
HOBSB, N.M.

May 24, 1993

United States Department of the Interior
Bureau of Land Management
P. O. Box 1157
Hobbs, New Mexico 88240-1157

Attention: Vicente R. Balderaz

Dear Mr. Balderaz:

As per your request, listed below are the answers to the questions about our Hanson water production.

- (a) Water is produced from the Yates sandstone.
- (b) Water production is 8 barrels per day from the Hanson lease.
- (c) A current water analysis is attached.
- (d) Water is stored on the lease in a 200 barrel closed top steel tank.
- (e) Water is moved to a disposal facility by independent vacuum truck contractors.
- (f) The disposal facility is operated by Burk Royalty Co. The well name is the Neal SWD #3A. It's location is NW/NW Section 35-T20S-R34E.
- (g) #3A was approved by Order #R4283 with the NMOCD.

If you have any additional requests for information, please do not hesitate to contact me at your convenience.

Sincerely yours,

BURK ROYALTY CO.

Charles Gibson
Petroleum Engineer

CG/tl
Enc.

PETROLITE

Chemicals and Services

FF PETROLITE

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company	: BURK ROYALTY	Date	: 05/18/93
Address	: ARTESIA, NEW MEXICO	Date Sampled	: 05/10/93
Lease	: HANSON B	Analysis No.	: 476
Well	: #1		
Sample Pt.	: WATER TANK		

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	8.5			
2. H2S	290 PPM			
3. Specific Gravity	1.050			
4. Total Dissolved Solids		74046.1		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		0 PPM		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)		1300.0		
11. Bicarbonate	HCO3	1586.0	HCO3	26.0
12. Chloride	Cl	42740.1	Cl	1205.6
13. Sulfate	SO4	2100.0	SO4	43.7
14. Calcium	Ca	2108.2	Ca	105.2
15. Magnesium	Mg	1560.7	Mg	128.4
16. Sodium (calculated)	Na	23950.4	Na	1041.8
17. Iron	Fe	0.7		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		11690.5		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
-----					-----
105	*Ca <----- *HCO3	Ca (HCO3) 2	81.0	26.0	2107
	/----->	CaSO4	68.1	43.7	2976
128	*Mg -----> *SO4	CaCl2	55.5	35.5	1968
	<-----/	Mg (HCO3) 2	73.2		
1042	*Na -----> *Cl	MgSO4	60.2		
		MgCl2	47.6	128.4	6112
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
	CaCO3 13 mg/L	Na2SO4	71.0		
	CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	1041.8	60881
	BaSO4 2.4 mg/L				

REMARKS:

----- D. CANADA / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON



SCALE TENDENCY REPORT

Company : BURK ROYALTY Date : 05/18/93
Address : ARTESIA, NEW MEXICO Date Sampled : 05/10/93
Lease : HANSON B Analysis No. : 476
Well : #1 Analyst : ROZANNE JOHNSON
Sample Pt. : WATER TANK

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO3 Scaling Tendency

S.I. = 2.6 at 60 deg. F or 16 deg. C
S.I. = 2.7 at 80 deg. F or 27 deg. C
S.I. = 2.8 at 100 deg. F or 38 deg. C
S.I. = 2.9 at 120 deg. F or 49 deg. C
S.I. = 3.0 at 140 deg. F or 60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

S = 4536 at 60 deg. F or 16 deg C
S = 4837 at 80 deg. F or 27 deg C
S = 5013 at 100 deg. F or 38 deg C
S = 5080 at 120 deg. F or 49 deg C
S = 5120 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON

Disposal of Produced Water From Federal Wells
Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

1. That this agency be notified of any change in your method or location of disposal.
2. Compliance with all provisions of NTL-2B.
3. This agency shall be notified of any spill or discharge as required by NTL-3A.
4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
6. Any on lease open top storage tanks shall be covered with a wire screen to prevent entry by birds and other wildlife.
7. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
8. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.