

DHC

12/26/97

RECEIVED

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

DISTRICT III

1000 N. Grand Ave., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

DEC 5 1997

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-8429

Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company P.O. Box 51810 Midland, Texas 79710-1810

OWNER: Pitchfork '4' Federal No. 2 K. 4, 25S, 34E Lea

LESSOR: Pitchfork '4' Federal No. 2 K. 4, 25S, 34E Lea

OGRID NO. 26485 Property Code 014332 API NO. 30-025-30331

Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Pitchfork Ranch Wolfcamp 82950		Pitchfork Ranch Strawn 50374
2. Top and Bottom of Pay Section (Perforations)	Pro. 13,470'-13,525'		Pro. 13,675, 13,806'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	b. (Original) Est. 7035 psi	b.	b. Est. 9350 psi
6. Oil Gravity (°API) or Gas BTU Content	Est. 1083		Est. 1059
7. Producing or Shut-In?	To be completed		To be completed
Production Marginal? (yes or no)			
* If Shut-In, give date and oil/gas/water rates of last production	Date: See Attached Rates:	Date: Rates:	Date: See Attached Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 0 % Gas: 65 %	Oil: % Gas: %	Oil: 0 % Gas: 35 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No

11. Will cross-flow occur? Yes ☒ No ☐ If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOC Reference Cases for Rule 303(C) Exceptions: ORDER NO(S):

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Maria Perez TITLE Regulatory Compliance DATE 12/1/97

TYPE OR PRINT NAME Maria Perez TELEPHONE NO. (915) 688-6906

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 S. 1st Street, Artesia, NM 88210-2834
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-03331	² Pool Code 82950	³ Pool Name Pitchfork Ranch Wolfcamp
⁴ Property Code 014332	⁵ Property Name Pitchfork '4' Federal	⁶ Well Number
⁷ OGRID No. 26485	⁸ Operator Name Burlington Resources Oil & Gas Company	⁹ Elevation 3361'


¹⁰ Surface Location


UL or lot no. K	Section 4	Township 25S	Range 34E	Lot. Idn	Feet from the 1830'	North/South Line South	Feet from the 1980'	East/West line West	County Lea
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Maria Perez Printed Name Regulatory Compliance Title 12/1/97 Date
				¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Date of Survey Signature and Seal of Professional Surveyer: Certificate Number



* GAS

PITCHFORK 4 FEDERAL 1 2 1 3044B-1

Prop Z1 *

☒ * GAS Mcf/d

☐

 RateTime
Semi Log

EUR 376,568

Cum Rem 0
376,568
Rem% 100.0%
Yrs 10.92

Date 3/1/1998

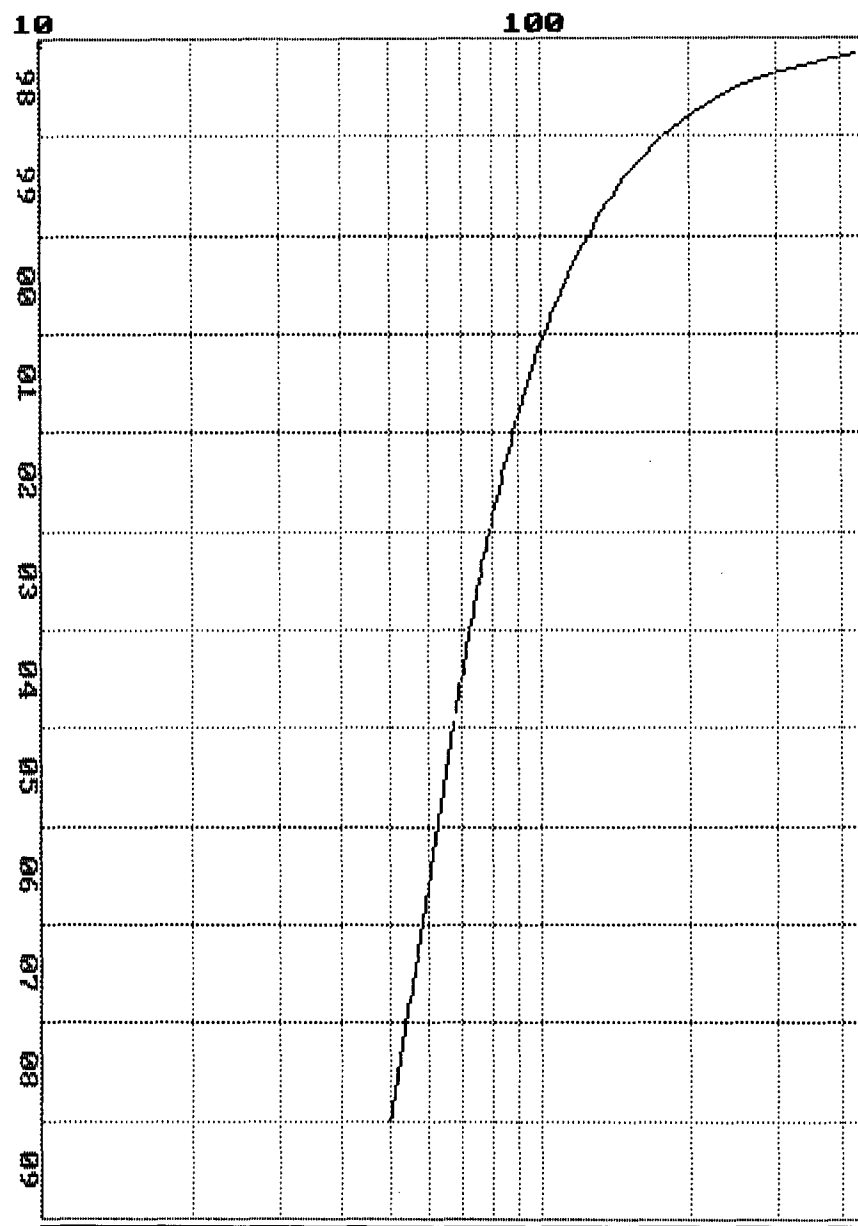
Act 0
Qmo 12,103

Q 435
n 2
De 95

Qab 50

GetQual WOLF CAMP

Major = GAS



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Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-03331	² Pool Code 50374	³ Pool Name Pitchfork Ranch Strawn
⁴ Property Code 014332	⁵ Property Name Pitchfork '4' Federal	⁶ Well Number
⁷ OGRID No. 26485	⁸ Operator Name Burlington Resources Oil & Gas Company	⁹ Elevation 3361'


¹⁰ Surface Location

UL or lot no. K	Section 4	Township 25S	Range 34E	Lot. Idn	Feet from the 1830'	North/South Line South	Feet from the 1980'	East/West line West	County Lea
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* GAS

PITCHFORK 4 FEDERAL 1 2 1 3044B-1

Prop 21 *

☒ * GAS Mcf/d

☐

☐

☐

 Rate Time
Semi Log

EUR 105,936

Cum 0

Rem 105,936

Rem% 100.0%

Yrs 3.59

Date 3/1/1998

Act 0

Qmo 6,538

Q 235

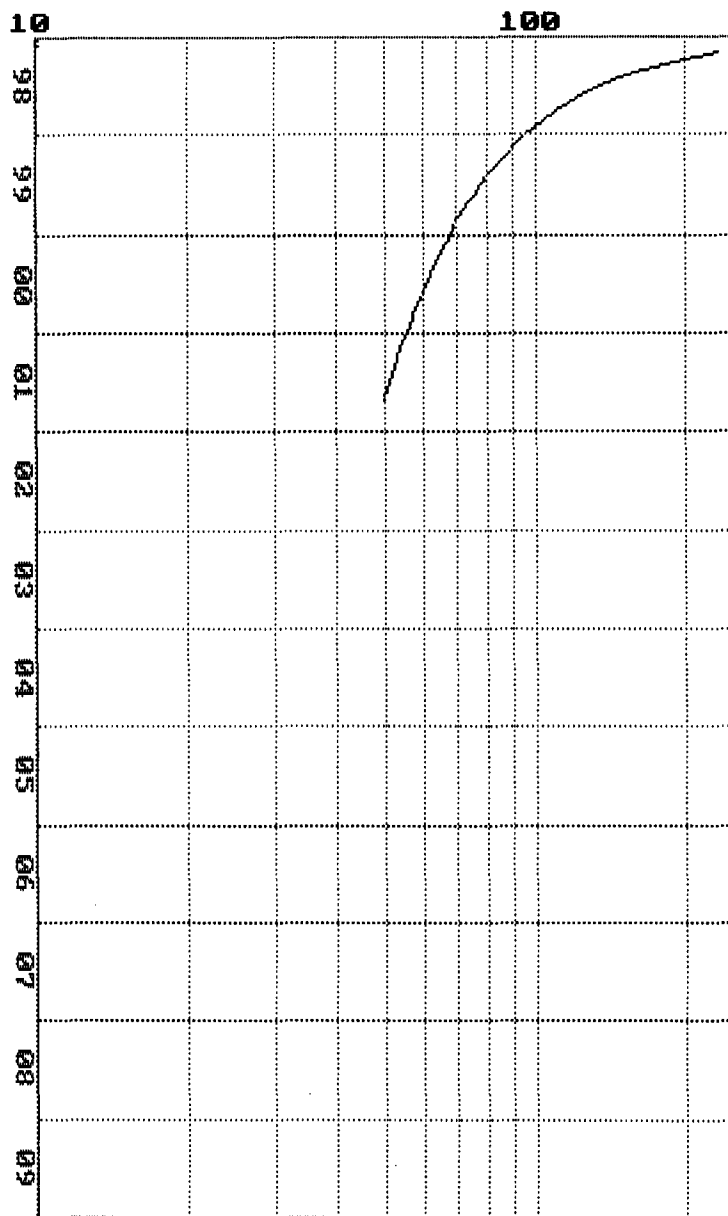
n 2

De 95

Qab 50

GetQual STRAIN

Major = GAS



**ADMINISTRATIVE APPLICATION
DOWNHOLE COMMINGLING
PITCHFORK '4' FEDERAL WELL NO. 2
LEA COUNTY, NEW MEXICO**

ADDITIONAL SUPPORTING INFORMATION

The allocation method of 65% to the Wolfcamp and 35% to the Strawn was calculated based on production information obtained from an offset well located 1.8 mile northwest of this well. The offset was completed in the Wolfcamp in 1984, and subsequently recompleted to the Strawn in mid 1990. Bottomhole pressures and Gas BTU content was based on an average of wells producing from the perspective zones in and around the area including wells across the Texas state line. Due to the nature of the zones being discontinuous, an average of production, bottomhole pressures, and Gas BTU was utilized.

**BURLINGTON RESOURCES OIL & GAS COMPANY (OGRID #26485)
APPLICATION FOR ADMINISTRATIVE APPROVAL
PITCHFORK '4' FEDERAL WELL NO. 2 (PROPERTY # 014332)
PITCHFORK RANCH STRAWN (50374)
PITCHFORK RANCH WOLFCAMP (82950)
LEA COUNTY, NEW MEXICO**

OFFSET OPERATOR NOTIFICATION

**Enron Oil & Gas Company
P.O. Box 2267
Midland, Texas 79702-2267**

**BTA Oil Producers
104 South Pecos
Midland, Texas 79701**

**Malcolm R. Madera
P.O. Box 1986
Carlsbad, New Mexico 88220**

**Roy C. Allen
Maxie T. Allen
John Patrick Allen
Louis Charles Weaver
c/o Roy C. Allen
P.O. Box 4054
Benson, AZ 85602**

**Paul Page Jr.
214 West Texas, Ste. 407
Midland, Texas 79701**

**Ruth & Duer Wagner, Jr.
1400 Continental Plaza
777 Main Street
Ft. Worth, Texas 76102**

**Robert E. Landreth
505 N. Big Spring, Ste. 507
Midland, Texas 79701**

**Amerada Hess Corp.
P.O. Box 2040
Houston, Texas 77252-2040
ATTN: Land Department**

**Bobby Greg Cohea
Lindy J. Cohea
312 Elwood Drive
Edmond, Oklahoma 73013**

**Iris E. Brinninstool, Life Estate
Ferinez Phelps, Remainderman
1523 Hilton Avenue
Columbus, GA 31906**

**Lee W. & Patricia Horton
1225 S. Park
San Angelo, Texas 76901**

**Virginia K. Smith, individually &
as Executrix of Estate of Hugh
B. Smith
1400 Continental Plaza
777 Main Street
Ft. Worth, Texas 76102**

**Alonzo Monk Bryan
P.O. Box 758
Lake Janaluska, NC 28745**

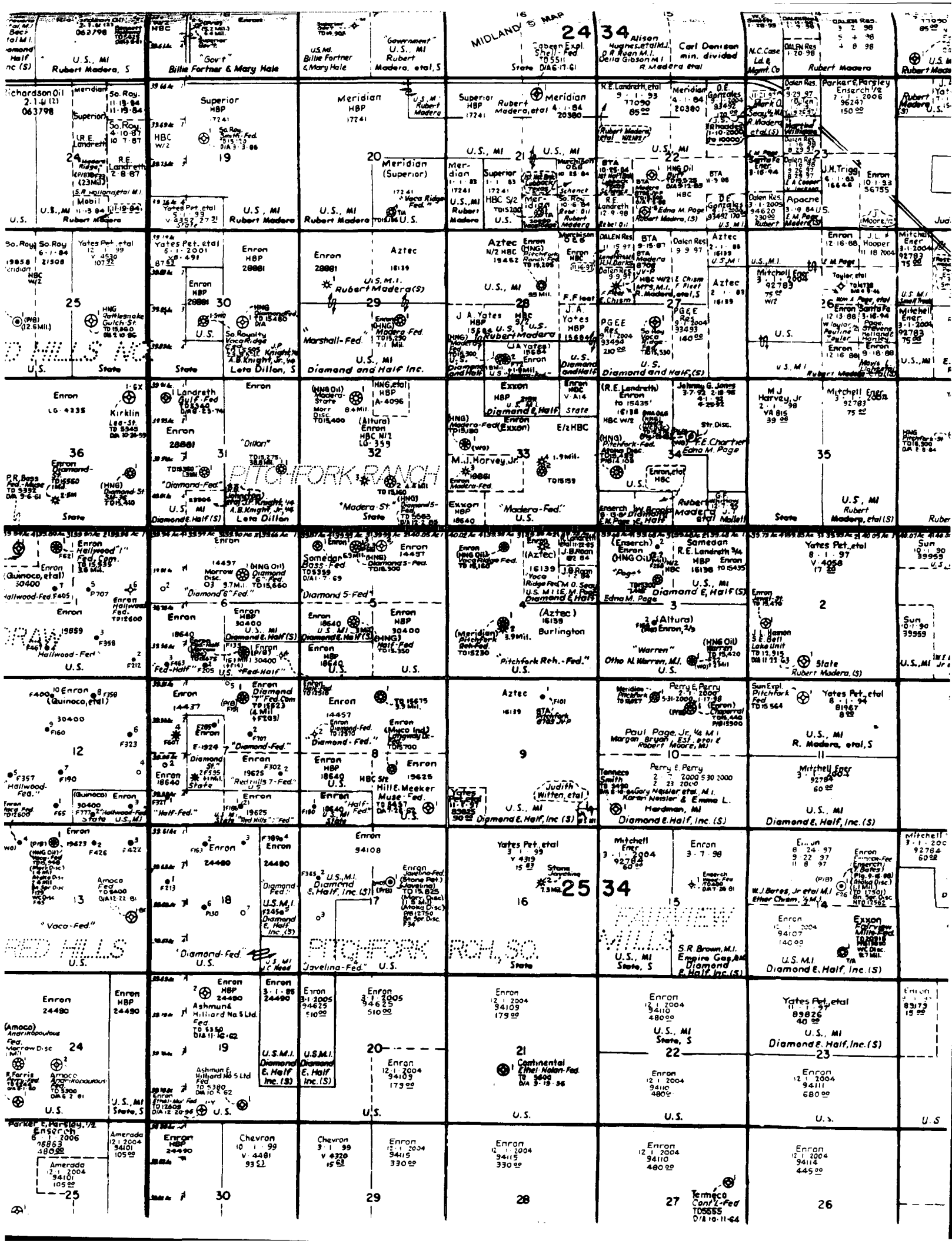
**Ruth Daggett
1400 Continental Plaza
777 Main Street
Ft. Worth, Texas 76102**

**Charles B. Harris, Trustee
3100 Continental Plaza
Ft. Worth, Texas 76102**

**Billie Johns
15548 Vista Vincente
Ramona, CA 92065**

**Daniel M. Galbreath
Executor of the Estate of
Dorothy Bryan Galbreath,
Deceased
180 E. Broad Street
Columbus, Ohio 43215**

**Alan Jackinsen
2402 Cimmaron
Midland, Texas 79705**





STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

3/11/98

GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	_____X_____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Burlington Res O&G Co Pitchfork 4 Fed #2-K-4-25s-34e
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

None

Yours very truly,

Chris Williams

Chris Williams
Supervisor, District 1

/ed

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons
P.O. Box 1980
Hobbs, NM 88241

FORM APPROVED
Budget Bureau No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

BURLINGTON RESOURCES OIL AND GAS COMPANY

3a. Address

P. O. Box 51810, Midland, TX 79710-1810

3b. Phone No. (include area code)

915-688-6906

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

K, 1830' FSL & 1980' FWL,
SEC. 4, T25S, R34E

5. Lease Serial No.

NM 16139

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Pitchfork "4" Federal #2

9. API Well No.

30-025-30331

10. Field and Pool, or Exploratory Area

Undesignated Fairview Mills
Wolfcamp Gas &
Wildcat Strawn Gas

11. County or Parish, State

Lea Co., NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | Sidetrack/Directional |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | & Downhole Commingle |
| | | | amend field names |

13. Described Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletes horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

This sundry is to correct the field names on Notice of Intent Sundry previously submitted dated 1-5-98 to sidetrack a directional hole from the existing vertical well. As per Mike Stogner with the OCD in Santa Fe, the field names have been changed to the Undesignated Fairview Mills Wolfcamp Gas Field and a Wildcat Strawn Gas Pool. We will be setting a cmt retainer @12,850' & squeezing perfs 13,956'-13,964' and 4-1/2" Liner with 100 sxs H cmt on vertical section of hole prior to sidetracking.

Also correct field names on Notice of Intent Sundry previously submitted dated 12-11-97 to downhole commingle.

The fields previously submitted were the Pitchfork Ranch Wolfcamp and Pitchfork Ranch Strawn, which are incorrect.

All of the attachments previously submitted with these sundries remain the same.

SUBJECT TO
LIKE APPROVAL
BY STATE

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

Name (Printed/Typed) Maria L. Perez

Title Regulatory Representative

Signature

Date 1-13-98

Approved by

(ORIG. SGD.) LES BABYAK

Title

PETROLEUM ENGINEER

Date

FEB 05 1998

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

(Instructions on reverse)