

PMESD-467873777  
Susp: 3/30/04

## BURLINGTON RESOURCES

SAN JUAN DIVISION

Sent Federal Express

March 9, 2004

Mr. Michael Stogner  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87504

RECEIVED

MAR 10 2004

Re: Stanolind Gas Com #300S  
365' FSL, 560' FEL, Section 16, T-30-N, R-8-W, San Juan County  
API #30-045-31328

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Basin Fruitland Coal formation.

The subject well was staked previously at a location that was under the jurisdiction of the Bureau of Reclamation for Quality Waters of Navajo Reservoir within the state park. Due to public utilization/safety issues, the location was moved across the river to the above referenced location. Also, as a result of the Fruitland Coal process of cavitation, the migration of coal fines onto the surface would not be compatible with public usage in the State Park. Large archaeological sites, steep cliffs and rugged terrain encompass a majority at this area within the legal spacing window for the formation at this new location as shown on the attached topographic maps. Additionally, I have included geological information that shows the well better positioned for Fruitland Coal reservoir high productivity area.

Consequently, this location was staked non-standard for the Basin Fruitland Coal formation, in order to best fit the existing steep terrain and maintain footage away from the edge of the cliff to avoid any adverse impact to the San Juan River Quality Waters during drilling and completion operations.

The following attachments are for your review:

- Approved application for Permit to Drill and C-102 at previous location
- Approved Intent Sundry C-103 and new C-102 of new location
- Offset operators / owners plat
- 9 Section Plat
- Topographic map of Section 16
- Aerial Photography and Drilling Window Plat
- Geology Logs – Other Area Wells
- Geology Map of Twp. 30-8 and Explanation

Three copies of this application are being submitted to offset operators by certified mail.

Sincerely,

  
Joni Clark  
Regulatory Specialist

Re: Stanolind Gas Com #300S  
365' FSL, 560' FEL, Section 16, T30N, R8W, San Juan County  
API #30-045-31328

I hereby certify that the following offset owners/operators have been notified by certified mail of our application for administrative approval for non-standard well location of the above well.

BP America  
Attn: Bryan Anderson  
San Juan B U  
Westlake 1, Room 19-114  
501 Westlake Park Blvd.  
Houston, TX 77079

Submittal To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised May 08, 2003

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-045-31328
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-10938-55
7. Lease Name or Unit Agreement Name Stanolind Gas Com
8. Well Number 300S
9. OGRID Number 14538
10. Pool name or Wildcat Basin Fruitland Coal
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6427'

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" (FORM C-101) FOR SUCH  
PROPOSALS.)

1. Type of Well:  
Oil Well ☐ Gas Well ☐ Other CBM

2. Name of Operator  
Burlington Resources Oil & Gas Company LP

3. Address of Operator  
PO Box 4289, Farmington, NM 87499

4. Well Location

Unit Letter P : 365 feet from the South line and 560 feet from the East line

Section 16 Township 30N Range 8W NMPM San Juan County

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☒

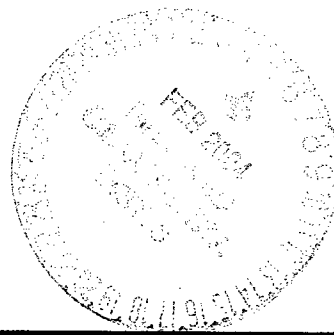
SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The location for the subject well has been moved from 1770'FSL, 1755'FEL. Attached is the revised C-102 plat.



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

SIGNATURE Tammy Wimsatt TITLE Regulatory Specialist DATE 2/4/2004

Type or print name Tammy Wimsatt

Telephone No. (505) 326-9700

(This space for State use)

APPROVED BY STEVEN N. HAYDEN DEPUTY OIL & GAS INSPECTOR, DIST. #1  
TITLE

DATE FEB 5 2004

Conditions of approval, if any:

HOLD C104 FOR NSL

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-31328	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 7530	<sup>5</sup> Property Name STANOLIND GAS COM	<sup>6</sup> Well Number 300S
<sup>7</sup> OGRD No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	<sup>9</sup> Elevation 6427

<sup>10</sup> Surface Location

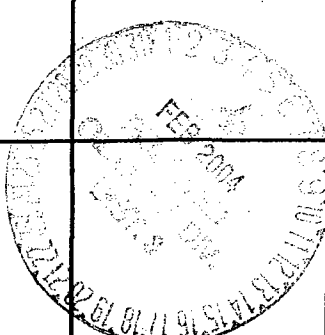
UL or lot no. P	Section 16	Township 30-N	Range 8-W	Lot Idn	Feet from the 365	North/South line SOUTH	Feet from the 560	East/West line EAST	County SAN JUAN
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<sup>11</sup> Bottom Hole Location If Different From Surface

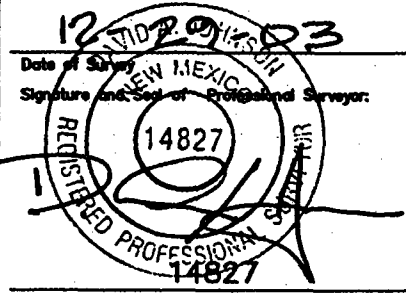
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres E/320		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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

16

		FD 3 1/4" BLM 1956 B.C.  E-3555-2	
		ST NM B-10938-30	
LAT: 36°48.31227' N. (NAD 27) LONG: 107°40.38857' W. (NAD 27)		NEW MEXICO, ST OF B-10938-54	
NEW MEXICO, ST OF B-10938-55		FD 3 1/4" BLM 1956 B.C.  S 89°30'32" W 2720.61' (M)	
		FD 3 1/4" BLM 1956 B.C.  560' 365'	

17 OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  
  
Signature Tammy Wimsatt  
Printed Name Tammy Wimsatt  
Title Regulatory Specialist  
Date 2-4-04

18 SURVEYOR CERTIFICATION  
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.  
  
Date of Survey 12-10-03  
Signature and Seal of Registered Surveyor:   
Certificate Number 14827

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Ave., Artesia, NM 88210

## District III

1000 Rio Brazos Rd., Aztec, NM 87410

## District IV

1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

Form C-101

**APPLICATION FOR PERMIT TO DRILL**

Operator Name and Address Burlington Resources Oil and Gas Company LP PO Box 4289 Farmington, NM 87499		OGRID Number 14538
		API Number 30-45-31328
Property Code 7530	Property Name STANOLIND GAS COM	Well No. 300S

**Surface Location**

UL or Lot J	Section 16	Township 30N	Range 08W	Lot Idn	Feet From 1770	N/S Line S	Feet From 1755	E/W Line E	County San Juan
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**Proposed Pools**

BASIN FRUITLAND COAL (GAS) 71629
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Work Type New Well	Well Type Gas	Cable/Rotary	Lease Type State	Ground Level Elevation 5686
Multiple N	Proposed Depth 2516	Formation Fruitland Coal	Contractor	Spud Date

**Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.675	32.3	120	38	0
Int1	8.75	7	20	2224	663	0
Liner1	6.25	5.5	15.5	2516	0	0

**Casing/Cement Program: Additional Comments**

Liner will not be cemented.
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**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Electronically Signed By: Peggy Cole		Electronically Approved By: Charlie Perrin	
Title: Manager		Title: Manager	
Date: 1/9/2003		Approval Date: 1/10/2003	Expiration Date: 1/10/2004
Phone: 505-320-5919		Conditions of Approval: No Conditions	

**District I**

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1301 W. Grand Ave., Artesia, NM 88210

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-102

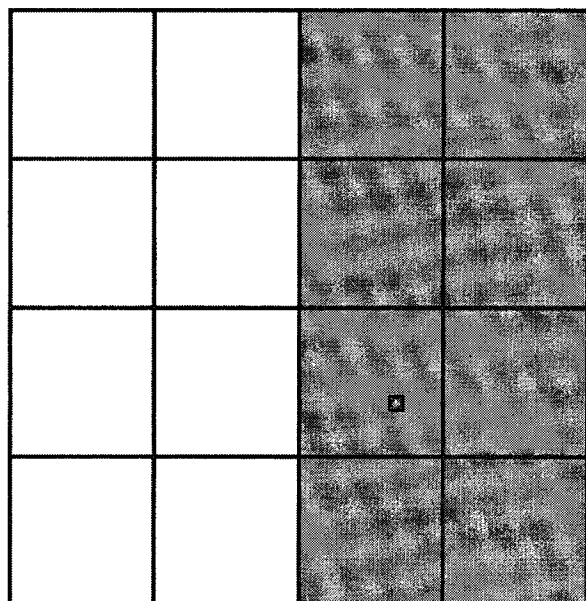
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-45-31328	Pool Name BASIN FRUITLAND COAL (GAS)	Pool Code 71629
Property Code 7530	Property Name STANOLIND GAS COM	Well No. 300S
OGRID No. 14538	Operator Name Burlington Resources Oil and Gas Company LP	Elevation 5686

### Surface And Bottom Hole Location

UL or Lot J	Section 16	Township 30N	Range 08W	Lot Idn	Feet From 1770	N/S Line S	Feet From 1755	E/W Line E	County San Juan
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						



#### OPERATOR CERTIFICATION

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

Electronically Signed By: Peggy Cole

Title: Manager

Date: 1/9/2003

#### SURVEYOR CERTIFICATION

*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.*

Electronically Signed By: David A Johnson

Date of Survey: 10/29/2002

Certificate Number: 14827

## **APD Comments**

**Operator: 14538 Burlington Resources Oil and Gas Company LP**

**Well: STANOLIND GAS COM 300S**

**There Are No Comments**



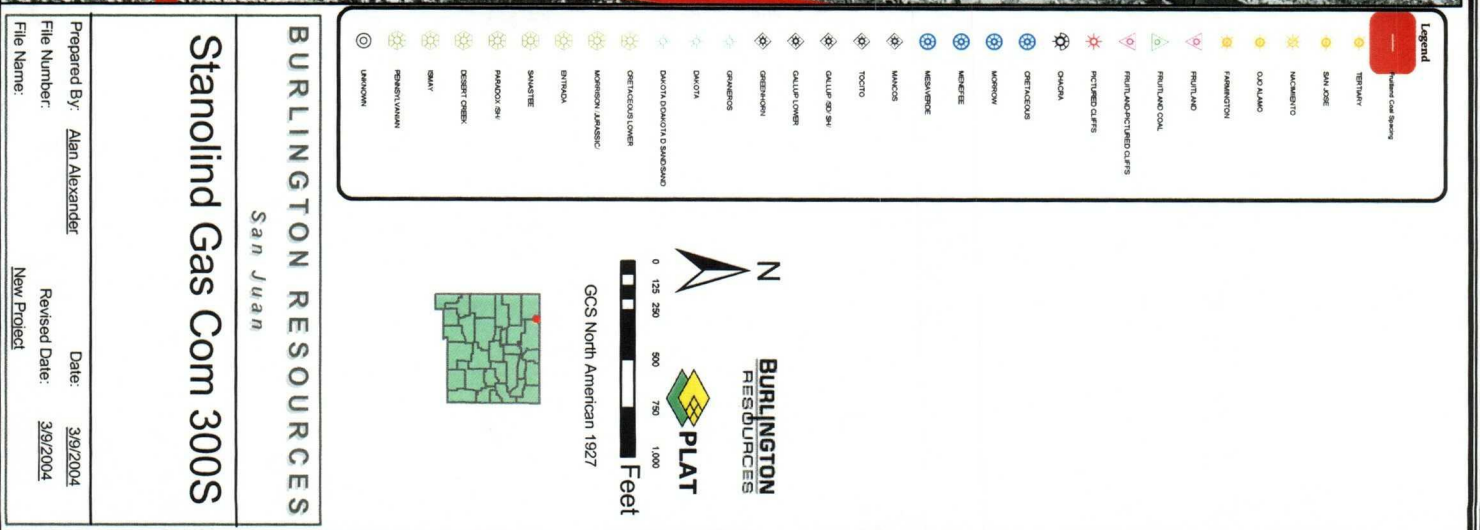
## **APD Conditions Of Approval**

**Operator: 14538 Burlington Resources Oil and Gas Company LP**

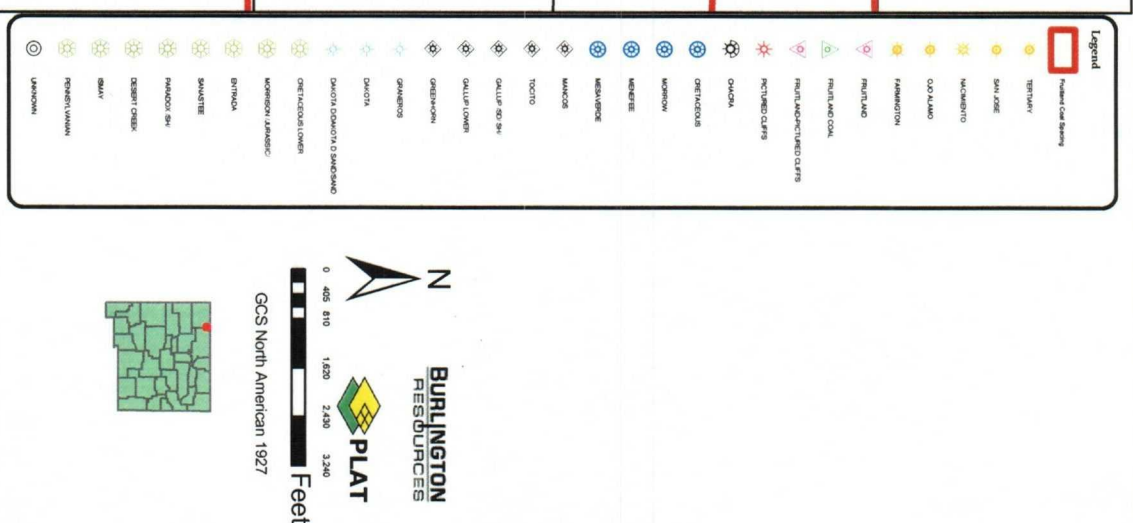
**Well: STANOLIND GAS COM 300S**

**There Are No Conditions Of Approval**

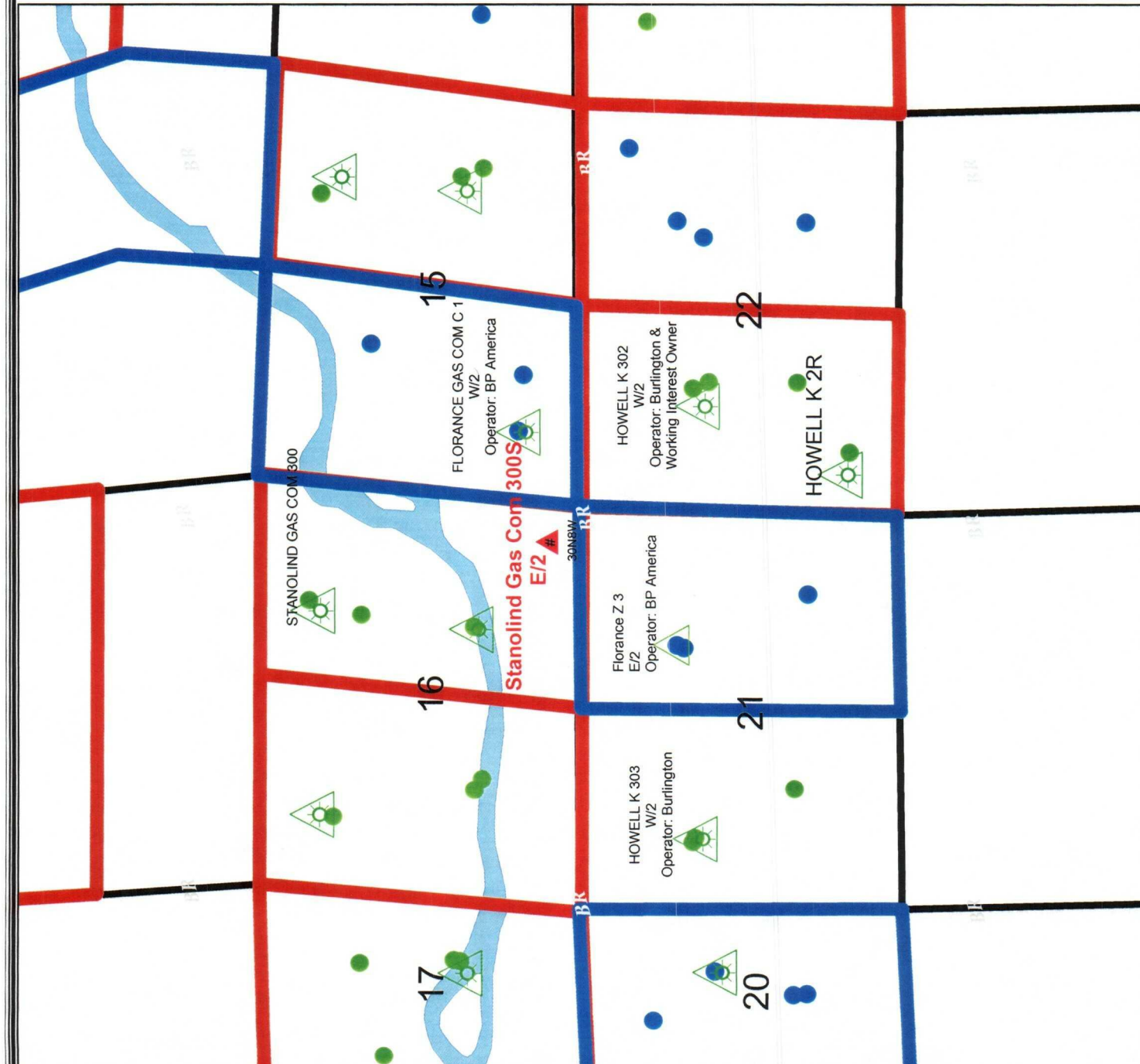








Prepared By:	Alan Alexander	Date:	3/9/2004
File Number:		Revised Date:	3/9/2004
File Name:		New Project	



**Legend**

**FRUITLAND COAL**

**Current Operator**

- BP America Production Co
- Burlington Resource
- BP Fruitland Coal Spacing Unit
- BR Fruitland Coal Spacing Unit
- Sections
- Townships
- County Lines
- San Juan Federal Units Outlines
- U.S. Water Bodies

**BURLINGTON RESOURCES**

**PLAT**

**Scale:**

0 650 1,300 2,600 3,900 5,200 Feet

1:71,167,736 - 1" equals 5,930,645'

GCS North American 1927

**BURLINGTON RESOURCES**

*San Juan*

**Stanolind Gas Com 300S**

**NSL Notification**

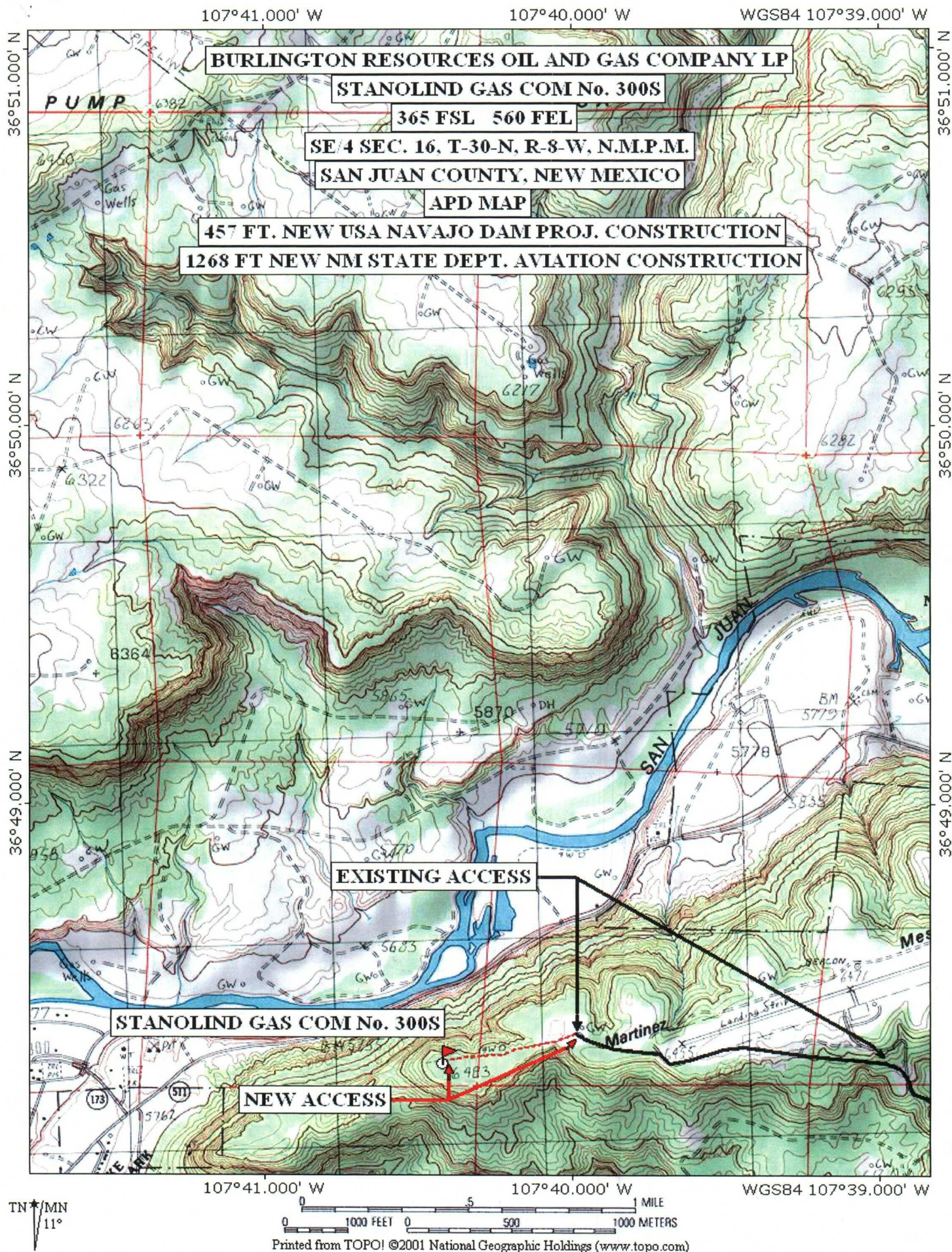
E/2 Sec 16, T30N, R8W, San Juan County, NM

Prepared By: *mib* Date: *2/27/2004*

File Number: *2/27/2004*

File Path: *\\NatePublic\Projects\1 San Juan Basin Users\1 San Juan Basin Users.mxd*



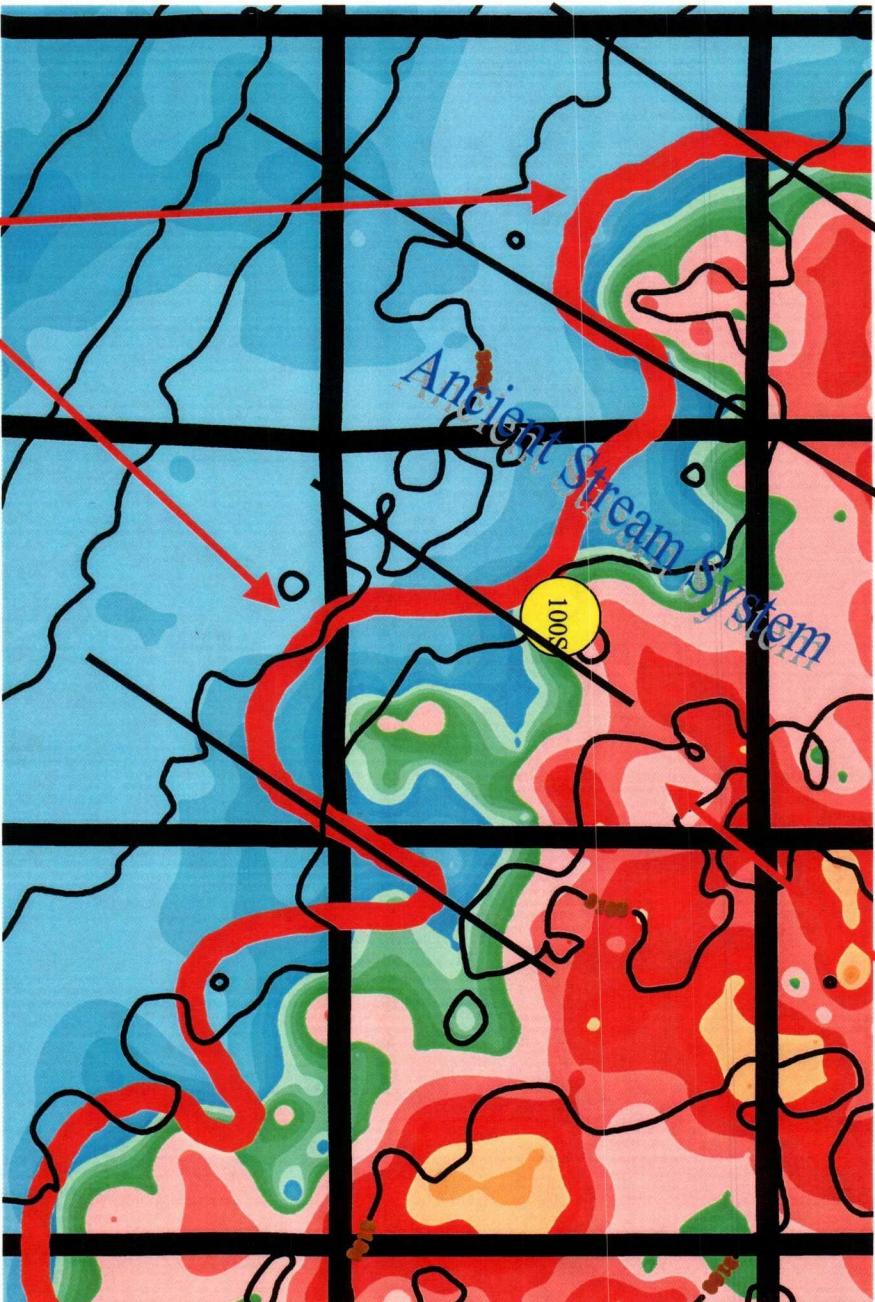




## Stanolind Gas Com #300S NSL geological justification

Geology believes the best chance of success in drilling the Stanolind Gas Com #300S is to position it as far south and east in the section as reasonably possible for two reasons that may actually be related. It is believed that the position of the defining line between the better producing fairway and the remainder of the Fruitland pool is in part due to the original over-pressuring of the coals. Please refer to the attached daily rate production map (where the warmer colors represent higher production while the cooler colors are lesser production and structure lines are overlain). Those areas where the line tends to bulge out to the southwest are points where the pressure overcame the formation's ability to contain it and the pressure broke out creating enhanced fracture trends (or cleating). Although not a perfect fit, these enhanced trends often correspond with better production. Additionally, there is evidence of the presence of a perennial fluvial system during the depositional time of the target coals trending southwest to northeast just northwest of the desired location. Such a system tends to prevent the deposition of coal forming peat swamps and/or it also degrades the quality of what is deposited by the influx of clastic matter from over-bank deposits and channel shifting. This section degradation may also be the reason certain areas were able to withstand the pressure better than other areas. Attached is a simple two well cross section where the left-hand well (Stanolind Gas Com #1A) is close to a traditional staking spot while the right hand well (Florance Z #3) is depositionally inline with the spot we desire to stake the well. Coal thickness is roughly the same (57' vs. 53') but the overall coal-bearing interval is 65' greater in the #1A. This is interpreted as being proximal to the edge of the fluvial system allowing the coal deposition, but also allowing additional clastic matter to be laid down. Allowing a non-standard location will move the well away from the additional clastic material (which would surely dampen production) and nearer some enhanced cleat permeability (maximizing production).

30-8 Township



Pressure Breakout