UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work	5. Lease Number
	DRILL	
		SF-078511
1 L	Town CM II	Unit Reporting Number
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON	7. Unit Agreement Name
		as Company
		7407
3.	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmingtor	NM 87499 Quinn
	(505) 226 0700	9. Well Number
	(505) 326-9700	1C
4.	Location of Well	10. Field, Pool, Wildcat
	2245' FSL, 2280' FWL	Blanco Mesaverde
	Latitude 36° 52.9, Longit	11. Sec., Twn, Rge, Mer. (NMPM)
	Eactedde 30 32.9, hongit	/) 566. 20, 1 51 N, R-8-
·		APY# 30-045- ユリッチャ
14.	Distance in Miles from Nearest Tow	
	5 miles to Navajo Dam Pos	Office San Juan NM
15.	Distance from Proposed Location to 2245'	Nearest Property or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well
18.	1 171363	Nearest Well, Drig, Compl, or Applied for on this Lease
19.	Froposed Depth sand proposition	งกฎษณาและ กา 4. 3.7% 8165.3 ระเทษ
	6072'	Rotary
21.	Elevations (DF, FT, GR, Etc.)	22. Approx. Date Work will Start
	6513' GR	and the property of the state o
23.	Proposed Casing and Cementing Pro	ram
	See Operations Plan att	ched IFIL ANT HERMAN AU HERMED ARE
		SCENCE OF COMPLEXIVE WITH ATTACK
	(IV	"CELLERAL REQUIREMENTS"
	X = X	
24.	Authorized by:	Parcel 6-11-99
	kegulatory/Co	pliance Administrator Date
PERMI	TNO	
FUIVI		APPROVAL DATE
	OVED BY WAYNE TOWNSE!	

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 statements or presentations as to any matter within its jurisdiction.

NSL-4353 E



District I PO Box 1980, Hobbs, NM 88241-1980

District II PC Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico STATE OT NEW MEXICO
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

AMENDED REPORT

			WELL	LOCAT	ION AND A	ACREAGE DEI	: DICA	TION PL	_AT		
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UL or lot no.	Section	icwnship	Ottom Pange	Hole L	Ocation I	f Different		om Surf	ace East/Wes	st line	County
											Country
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Page 1

OPERATIONS PLAN

June 8, 1999

Well Name: Quinn #1C

Location: 2245' FSL, 2280' FWL, Sec. 20, T-31-N, R-8-W

San Juan County, NM

Latitude 36° 52.9 Longitude 107° 42.0

Formation: Blanco Mesa Verde

Elevation: 6513'GR

Formation Tops:	<u>Top</u>	Eottom	Contents
Surface	San Jose	2138'	_
Ojo Alamo	2138'	2248'	
Kirtland	2248'	2 877'	
Fruitland	2877'	33851	
Pictured Cliffs	3385'	35 02'	
Lewis	3502'	4135'	
Intermediate TD	3602'		
Mesa Verde	4135'	4508'	
Chacr a	4508'	5281'	
Massive Cliff House	5281'	5322'	
Menefee	5322'	5672'	
Massive Point Lookout	5672'		
TD	6072'		

Logging Program:

Cased hole - GR/CBL - surface to TD

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weiqht</u>	<u> Vis.</u>	Fluid Loss
0- 200'	Spu d	8.4-9.0	40-50	no control
200-3602'	LSND	8.4-9.0	30-60	no control
3602-6072'	Gas	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csq.Size	<u>Wt</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3602'	7"	20.0#	J-55
6 1/4"	3502' - 6072'	4 1/2"	10.5#	J-55

Tubing Program:

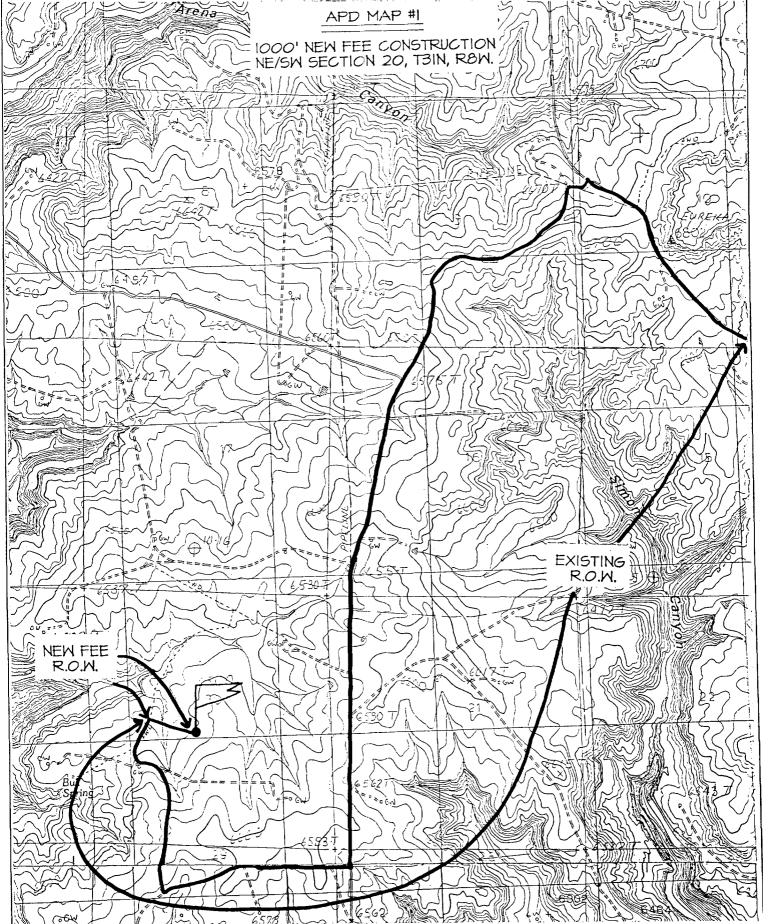
0' - 6072' 2 3/8" 4.70# EUE

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

BURLINGTON RESOURCES OIL & GAS COMPANY QUINN #IC 2245' FSL & 2280' FWL, SECTION 20, T3IN, R8W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO APD MAP #I 1000' NEW FEE CONSTRUCTION NE/SW SECTION 20, T3IN, R8W.

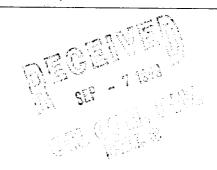




NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

September 1, 1999

Burlington Resources Oil & Gas Company P. O. Box 4289 Farmington, New Mexico 87499-4289 Attention: Peggy Bradfield



Administrative Order NSL-4353

Dear Ms. Bradfield:

Reference is made to the following: (i) your application submitted to the New Mexico Oil Conservation Division ("Division") on July 9, 1999; and (ii) the records of the Division in Santa Fe: all concerning Burlington Resources Oil & Gas Company's ("Burlington") request for an exception to the well location requirements provided within the "Special Rules for the Blanco-Mesaverde Pool," as promulgated by Division Order No. R-10987-A, for a non-standard Blanco-Mesaverde infill gas well location in an existing standard 320-acre stand-up gas spacing and proration unit ("GPU") for the Blanco-Mesaverde Pool comprising the W/2 of Section 20, Township 31 North, Range 8 West, NMPM, San Juan County, New Mexico. This GPU is currently dedicated to Burlington's: (i) Quinn Well No. 1 (API No. 30-045-10484), located at a standard gas well location 1650 feet from the South line and 990 feet from the West line (Unit L) of Section 20; and (ii) Quinn Well No. 1-A (API No. 30-045-26762), located at a standard gas well location 1850 feet from the North and West lines (Unit F) of Section 20.

The application has been duly filed under the provisions of Division Rules 104.F and 605.B.

The geologic interpretation submitted with this application indicates that the proposed unorthodox infill gas well location will be at a more favorable geologic position within the Blanco-Mesaverde Pool underlying the SW/4 of Section 20. Topographic conditions further restrict placement of the subject well. Further, all of Section 20 is included within a single Federal Lease (United States Government Lease No. SF-078511) in which Burlington is the leasehold operator; therefore, there are no effected offsets to the subject 320-acre GPU other then Burlington.

By the authority granted me under the provisions of Division Rule 104.F(2), the following described well to be drilled as the second infill well on this GPU at an unorthodox gas well location in Section 20 is hereby approved:

Quinn Well No. 1-C 2245' FSL & 2280' FWL (Unit K)

30-045-29944

Further, all three of the aforementioned Quinn Well Nos. 1, 1-A, and 1-C and existing GPU will be subject to all existing rules, regulations, policies, and procedures applicable to prorated gas pools in Northwest, New Mexico and to the Blanco-Mesaverde Pool.

Sincerely,

Lori Wrotenbery

Could be ferhow by Dec

Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec

U. S. Bureau of Land Management - Farmington

W. Thomas Kellahin, Legal Counsel for Burlington - Santa Fe

BURLINGTON RESOURCES

SAN JUAN DIVISION

Sent Federal Express July 8, 1999

Mr. Michael Stogner New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505



OIL CON. DIV.

Re:

Quinn #1C

2245'FSL, 2280'FWL Section 20, T-31-N, R-8-W, San Juan County

30-045-not assigned

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Mesa Verde pool. This application for the referenced location is for geological reasons as referenced in the attached geological explanation and maps. This location falls outside the windows established for the Mesa Verde by R-10987A.

Production from the Mesa Verde pool is to be included in a 320 acre gas spacing and proration unit for the west half (W/2) in Section 20 and is to be dedicated to the Quinn #1 (30-045-10484) located at 1650'FSL, 990'FWL in Section 20, the Quinn #1A (30-045-26762) located at 1850'FNL, 1850'FWL, and the Quinn #1B (30-045-not assigned) located at 660'FNL, 660'FWL in Section 20 which is proposed to be drilled this year.

The following attachments are for your review:

- Application for Permit to Drill.
- Completed C-102 at referenced location.
- Offset operators/owners plat
- 7.5 minute topographic map
- · Geologic explanation and maps

Three copies of this application are being submitted to offset operators by certified mail with a request that they furnish you with a Waiver of Objection, keep one copy for their files and return one copy to this office. We appreciate your earliest consideration of this application.

We appreciate your earliest consideration of this application.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

xc:

NMOCD - Aztec District Office Bureau of Land Management

WAIVER

_____hereby waives objection to Burlington Resources' application for a non-standard location for the Quinn #1C as proposed above.

By: ______ Date: _____

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	APPLICATION FOR PERMIT TO DRILL,	DEEPEN, OR PLUG BACK
1a.	Type of Work DRILL	5. Lease Number SF-078511 Unit Reporting Number
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Quinn
	(505) 326-9700	9. Well Number 1C
4.	Location of Well 2245' FSL, 2280' FWL	10. Field, Pool, Wildcat Blanco Mesaverde
	Latitude 36 ^o 52.9, Longitude 107 ^o 42.0	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 20, T-31-N, R-8-W API# 30-045-
14.	Distance in Miles from Nearest Town 5 miles to Navajo Dam Post Office	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Property or Le	ease Line
16.	Acres in Lease	17. Acres Assigned to Well 320.00
18.	Distance from Proposed Location to Nearest Well, Drlg, Co	ompl, or Applied for on this Lease
19.	Proposed Depth 6072'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 6513' GR	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Regulatory/Compliance Adminis	6-11-99 Strator Date
PERM	NIT NO. APPRO	DVAL DATE
APPR	OVED BY TITLE	DATE

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 statements or presentations as to any matter within its jurisdiction.

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD. Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec. NM 87410

District IV PD Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back t to Appropriate District Office

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Page 1 June 8, 1999

OPERATIONS PLAN

Well Name: Quinn #1C

Location: 2245' FSL, 2280' FWL, Sec. 20, T-31-N, R-8-W

San Juan County, NM

Latitude 36° 52.9 Longitude 107° 42.0

Formation: Blanco Mesa Verde

Elevation: 6513'GR

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2138'	
Ojo Alamo	2138'	2248'	
Kirtland	2248'	2877'	
Fruitland	2877'	33851	
Pictured Cliffs	3385'	3 502'	
Lewis	35 02'	4135'	
Intermediate TD	3602'		
Mesa Verd e	4135'	4508'	
Chacra	4508'	52 81'	
Massive Cliff House	5281'	5322'	
Menefee	5322'	5672'	
Massive Point Lookout	5672'		
TD	6072'		

Logging Program:

Cased hole - GR/CBL - surface to TD

Mud Program:

<u>Interval</u>	Type	Weight	<u>Vis.</u>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200-36021	LSND	8.4-9.0	30-60	no control
3602-6072'	Gas	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csq.Size	<u>Wt</u>	<u>Grade</u>
12 1/4"	0' ~ 200'	9 5/ 8"	32.3#	H-40
8 3/4"	0' - 3602'	7"	20.0#	J-55
6 1/4"	3502' - 6072'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 6072' 2 3/8" 4.70# EUE

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

BOP Specifications, Wellhead and Tests:

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Fig #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 2% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - Lead w/331 sx Class "B" w/3% sodium metasilicate, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 1/2# flocele/sx, 10# gilsonite/sx (1083 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

Alternate two-stage cement job. Stage tool @ 2777'. Cement 1st stage w/120 sx 50/50 Class "B" poz w/2% calcium chloride, ½# flocele/sx, 10# gilsonite/sx. Cement 2nd stage w/287 sx Class "B" cement w/3% sodium metasilicate, 10# gilsonite/sx, ½# flocele/sx (1081 cu.ft. of slurry, 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2248'. Two turbolating centralizers at the base of the Ojo Alamo at 2248'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner - Cement to cover minimum of 100' of 4 1/2" \times 7" overlap. Cement with 280 sx 50/50 Class "B" Poz with 2% gel, 1/4# flocele/sx, 5# gilsonite/sx, and 0.4% fluid loss additive (370 cu.ft., 40% excess to cement 4 1/2" \times 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

Special Drilling Operations (Gas/Mist Drilling):

- The following equipment will be operational while gas/mist drilling:
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- · Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 500 psi Mesa Verde 700 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half is dedicated to the Mesa Verde in this well.
- This gas is dedicated.

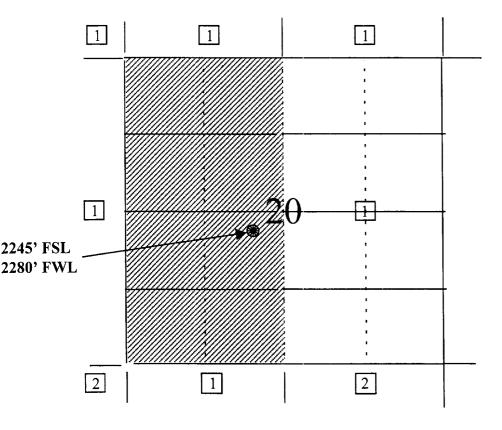
Drilling Engineer Date

BURLINGTON RESOURCES OIL AND GAS COMPANY

Quinn #1C OFFSET OPERATOR / OWNER PLAT Nonstandard Location

Mesaverde Formation Well

Township 31 North, Range 8 West



- 1) Burlington Resources
- Amoco Production Company Attn: Don Duhrkopf
 501West Lake Park Blvd. Houston, TX 77079-2696

Re: Quinn #1C

2245'FSL, 2280'FWL Section 20, T-31-N, R-8-W, San Juan County

30-045-not assigned

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Amoco Production Att: Don Duhrkopf

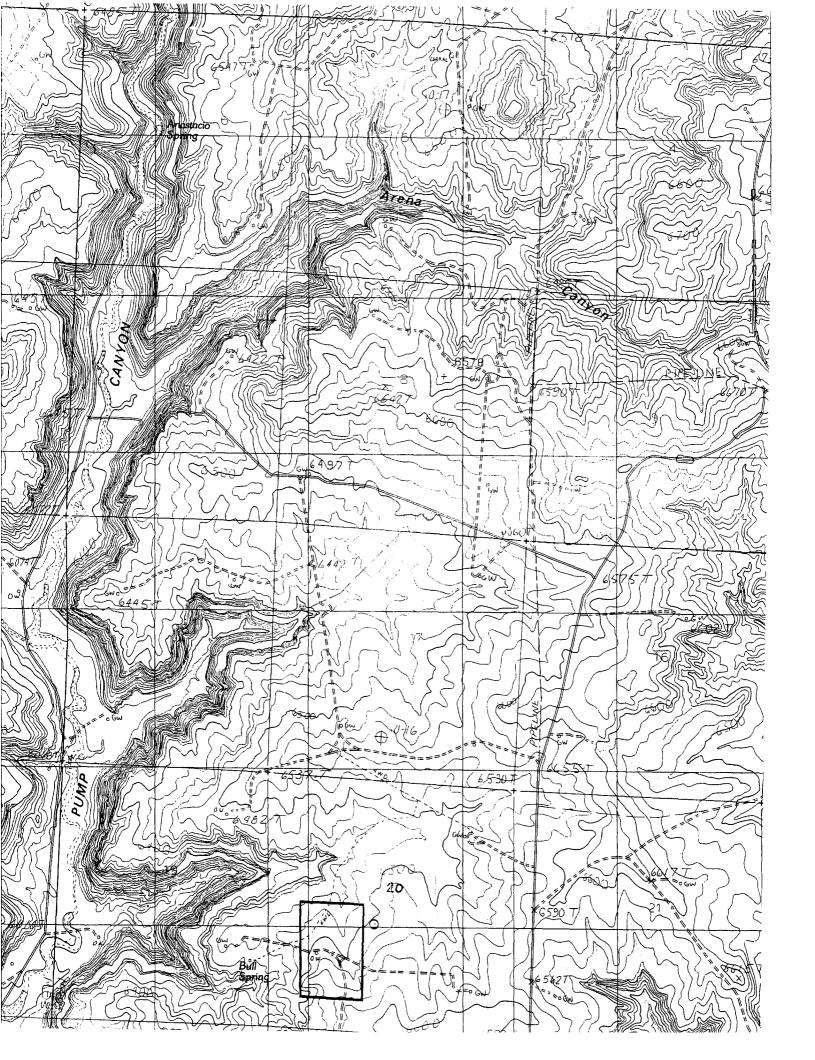
501 WestLake Park Boulevard Houston, TX 77079-2696

Peggy Bradfield

Burlington Resources

Regulatory/Compliance Administrator

Jagy Stadfield 1/8/99



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

a.	Type of Work	5. Lease Number				
	DRILL	SF-078511 Unit Reporting Number				
		One reporting Number				
b.	Type of Well GAS	6. If Indian, All. or Tribe				
2.	Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name				
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name Quinn				
	(505) 326-9700	9. Well Number 1C				
١.	Location of Well 2245' FSL, 2280' FWL	10. Field, Pool, Wildcat Blanco Mesaverde				
	Latitude 36° 52.9, Longitude 107° 42.	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 20, T-31-N, R-8-V API # 30-045-				
14.	Distance in Miles from Nearest Town 5 miles to Navajo Dam Post Office	12. County 13. State San Juan NM				
15.	Distance from Proposed Location to Nearest Property 2245'	or Lease Line				
16.	Acres in Lease	17. Acres Assigned to Well 320.00				
8.	Distance from Proposed Location to Nearest Well, Dr	lg, Compl, or Applied for on this Lease				
19.	Proposed Depth 6072'	20. Rotary or Cable Tools Rotary				
21.	Elevations (DF, FT, GR, Etc.) 6513' GR	22. Approx. Date Work will Start				
23.	Proposed Casing and Cementing Program See Operations Plan attached					
24.	Authorized by: Regulatory/Compliance Adm	6-11-99 ministrator Date				
PERN	1IT NO	APPROVAL DATE				

Archaeological Report to be submitted

Threatened and Endangered Species Report to be submitted

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 statements or presentations as to any matter within its jurisdiction.

District I PO Box 1980. Hobbs, NM 86241-1980

District II PO Drawer OD, Artesia, NM 86211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

District IV PC Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 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 'API Number 'Pool Code 30-045-72319 Blanco Mesaverde Property Code Property Name Well Number 7407 QUINN 1C 'OGRID No. *Operator Name *Elevation BURLINGTON RESOURCES OIL & GAS COMPANY 14538 6513 ¹⁰ Surface Location UL or lot no. Section TOWNSDAD Lot Idn Feet from the North/South line Feet from the East/West line County К 50 31N 8W 2245 SOUTH 2280 WEST SAN JUAN ¹¹Bottom Hole Location If Different From Surface UL or lot no. Section Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code Drover No. W/320NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 5235.12 " OPERATOR CERTIFICATION I hereby centify that the information contained herein is true and complete to the best of my knowledge and belie Signature Peggy Bradfield Printed Name Regulatory Administrato Title 5233.14 NMSF-078511 68 Date *SURVEYOR CERTIFICATION 2280' I hereby certify that the well location shown on this was plotted from field notes of actual surveys made b or under my supervision, and that the same is true an correct to the best of my belief. MAY 6, 1999 Date of Survey C. EBNA

5221 921

Page 1 June 8, 1999

OPERATIONS PLAN

Well Name: Quinn #1C

Location: 2245' FSL, 2280' FWL, Sec. 20, T-31-N, R-8-W

San Juan County, NM

Latitude 36° 52.9 Longitude 107° 42.0

Formation: Blanco Mesa Verde

Elevation: 6513'GR

Formation Tops:	<u>Top</u>	Bottom	Contents
Surface	San Jose	2138'	
Ojo Alamo	2138'	2248'	
Kirtland	2248'	2877'	
Fruitland	2877'	3385'	
Pictured Cliffs	3385'	3502'	
Lewis	3502'	4135'	
Intermediate TD	3602'		
Mesa Verd e	4135'	4508'	
Chacra	4508'	5281'	
Massive Cliff House	5281'	5322'	
Menef ee	5322'	5672'	
Massive Point Lookout	5672'		
TD	6072'		

Logging Program:

Cased hole - GR/CBL - surface to TD

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u> Vis.</u>	Fluid Loss	
0- 200'	Spud	8.4-9.0	40-50	no control	
200-3602'	LSND	8.4-9.0	30-60	no control	
3602-6072'	Gas	n/a	n/a	n/a	

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

<u> Hole Size</u>	<u>Depth Interval</u>	<u>Csq.Size</u>	<u>Wt</u>	<u>Grade</u>
12 1/4"	0' ~ 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3602'	'7 "	20.0#	J-55
6 1/4"	3502' - 6072'	4 1/2"	10.5#	J-55

Tubing Program:

2 3/8" - 4.70# EUE

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

BOP Specifications, Wellhead and Tests:

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Fig #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- . BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- · Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# flocele/sx and 2% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing - Lead w/331 sx Class "B" w/3% sodium metasilicate, 10# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 1/2# flocele/sx, 10# gilsonite/sx (1083 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

Alternate two-stage cement job. Stage tool @ 2777'. Cement 1st stage w/120 sx 50/50 Class "B" poz w/2% calcium chloride, ½# flocele/sx, 10# gilsonite/sx. Cement 2nd stage w/287 sx Class "B" cement w/3% sodium metasilicate, 10# gilsonite/sx, ½# flocele/sx (1081 cu.ft. of slurry, 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2248'. Two turbolating centralizers at the base of the Ojo Alamo at 2248'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner - Cement to cover minimum of 100' of 4 1/2" \times 7" overlap. Cement with 280 sx 50/50 Class "B" Poz with 2% gel, 1/4# flocele/sx, 5# gilsonite/sx, and 0.4% fluid loss additive (370 cu.ft., 40% excess to cement 4 1/2" \times 7" overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

Special Drilling Operations (Gas/Mist Drilling):

- The following equipment will be operational while gas/mist drilling:
- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Mesa Verde formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Fruitland Coal 300 psi Pictured Cliffs 500 psi Mesa Verde 700 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The west half is dedicated to the Mesa Verde in this well.
- This gas is dedicated.

Drilling Engineer

6-16-99

Date

Proposed Quinn Well Number 1C 2245' FSL & 2280' FWL Section 20, T31N, R8W San Juan County, New Mexico Blanco Mesaverde Pool Estimated TD 6072'

The location of the proposed test was selected to optimize recovery from the Mesaverde Group. The primary control on productivity in the Mesaverde is the density of natural fractures. Fracture orientation ranges from due north to north 30 degrees east. Gas drainage areas are elliptical in shape with the long axis parallel to the direction of fracture orientation. A drainage ellipse map of the project vicinity indicates that undeveloped gas reserves remain to be exploited in the E/2SW/4 of Section 20, T31N, R8W. The drainage ellipse map is based upon data derived from a larger study of the entire Blanco Mesaverde Pool (estimated ultimate recovery calculated for all wells in the Blanco Mesaverde Pool, original gas in place values calculated for entire Blanco Mesaverde Pool, etc.). Gross recoverable reserves of 1075 BCFG are projected from the Mesaverde producing interval for the proposed test. Due to topographic and archeological restrictions, it is not possible to exploit the remaining gas reserves in the Mesaverde in E/2SW/4 of Section 20, T31N, R8W from a standard surface location.

Quinn 1C NSL

Quinn #1C 31N-8W-20 Blanco Mesaverde

