



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 17, 1997

Burlington Resources
3535 East 30th Street
Farmington, New Mexico 87499-4289
Attention: Peggy Bradfield

Administrative Order TX-265

Dear Mr. Prichard:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107 (j) for the below-named wells.

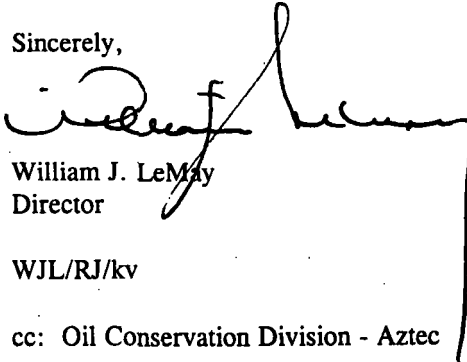
Pursuant to the authority granted me by Rule 107 (d) (4), you are hereby authorized to make tubingless completions in the following wells:

Well Name and Number:

Angel Peak B #14R	Fulcher Kutz Pictured Cliffs	NE 13-28-11	30-045-not assigned
Brookhaven Com C #4R	S. Blanco Pictured Cliffs	SW 36-27-08	30-045-29430
Feasel #1R	Fulcher Kutz Pictured Cliffs	SW 02-27-10	30-045-not assigned
Frost #1R	Fulcher Kutz Pictured Cliffs	NE 26-27-10	30-045-not assigned
Huerfanito Unit #45R	S. Blanco Pictured Cliffs	SW 24-27-09	30-045-not assigned
Huerfanito Unit #70R	Ballard Pictured Cliffs	NE 10-26-09	30-045-29436
Huerfanito Unit #6R	Fulcher Pictured Cliffs	SW 31-27-10	30-045-not assigned
McManus #4R	Ballard Pictured Cliffs	SE 19-26-08	30-045-not assigned

The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Sincerely,


William J. LeMay
Director

WJL/RJ/kv

cc: Oil Conservation Division - Aztec

PVZV2005729816

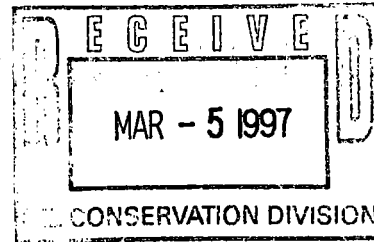
BURLINGTON RESOURCES

SAN JUAN DIVISION

*per E. Bush -
OK w/ esq cement
jobs completed*

March 3, 1997

New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Att: Mr. Roy Johnson

Dear Roy:

As we discussed February 27 by phone, this letter serves as application for variance to Rule 107 Sections J. We intend to drill and complete the following eight new wells in the Pictured Cliffs formation utilizing 3 1/2" casing and cement, and no tubing.

Angel Peak B #14R	Fulcher Kutz Pictured Cliffs	NE 13-28-11	30-045-not assigned
Brookhaven Com C #4R	S.Blanco Pictured Cliffs	SW 36-27-08	30-045-29430
Feasel #1R	Fulcher Kutz Pictured Cliffs	SW 02-27-10	30-045-not assigned
Frost #1R	Fulcher Kutz Pictured Cliffs	NE 26-27-10	30-045-not assigned
Huerfanito Unit #45R	S.Blanco Pictured Cliffs	SW 24-27-09	30-045-not assigned
Huerfanito Unit #70R	Ballard Pictured Cliffs	NE 10-26-09	30-045-29436
Huerfano Unit #6R	Fulcher Kutz Pictured Cliffs	SW 31-27-10	30-045-not assigned
McManus #4R	Ballard Pictured Cliffs	SE 19-26-08	30-045-not assigned

These tubingless completions are desirable as they allow Burlington to economically produce reserves from the tight, low pressure Pictured Cliffs formation. Significant cost savings are realized in both drilling and completion using this method. The 3 1/2" casing string will allow the wells to produce at a higher rate than can be realized through smaller tubulars, and also carry less risk during any subsequent workover operations.

All the listed wells meet the following criteria:

- are in proven fields
- are less than 5000' total depth
- do not have corrosive or pressure problems
- are not dual completions
- will not produce any liquids or condensate (dry gas only)

Attached is a copy of the C102 well location plat, operations plan, and wellbore schematic for each well. Please let me know if you require any further information for these wells.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peggy Bradfield".

Peggy Bradfield
Regulatory/Compliance Administrator

xc: NMOCD Aztec District Office

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer 00, 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
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
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Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-	Pool Code 77200	Pool Name Fulcher Kutz Pictured Cliffs
Property Code 6788	Property Name Angel Peak B	Well Number 14R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 5818'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
G	13	28-N	11-W		1850	North	1830	East	S.J.

11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres: 13 Joint or Infill: 14 Consolidation Code: 15 Order No.

160

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	5281.98'	17 OPERATOR CERTIFICATION
	1850'	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
	1830'	Signature Peggy Bradfield
	SF-047017-B	Printed Name Regulatory Administrator
5280.00'	13	Title
		Date
		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.
		11/25/96
		Date of Survey
		Signature and Seal of Professional Surveyor
	5282.64'	NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR
		6857 Certificate Number

January 15, 1997

OPERATIONS PLAN

Well Name: Angel Peak B #14R
Location: 1850' FNL, 1830' FEL Section 13, T-28-N, R-11-W
 San Juan County, New Mexico
 Latitude 36° 39.87, Longitude 107° 51.7
Formation: Fulcher Kutz Pictured Cliffs
Elevation: 5818' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	754'	
Ojo Alamo	754'	885'	aquifer
Kirtland	885'	1570'	
Fruitland	1570'	1868'	gas
Fruitland Coal	1711'	1877'	gas
Pictured Cliffs	1868'		gas
Total Depth	2200'		

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0-120'	Spud	8.4-9.0	40-50	no control
120-2200'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2200'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 885'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 885'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/244 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (549 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

Angel Peak B #14R

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

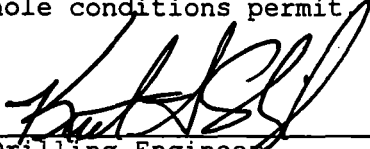
Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The northeast quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit



Drilling Engineer

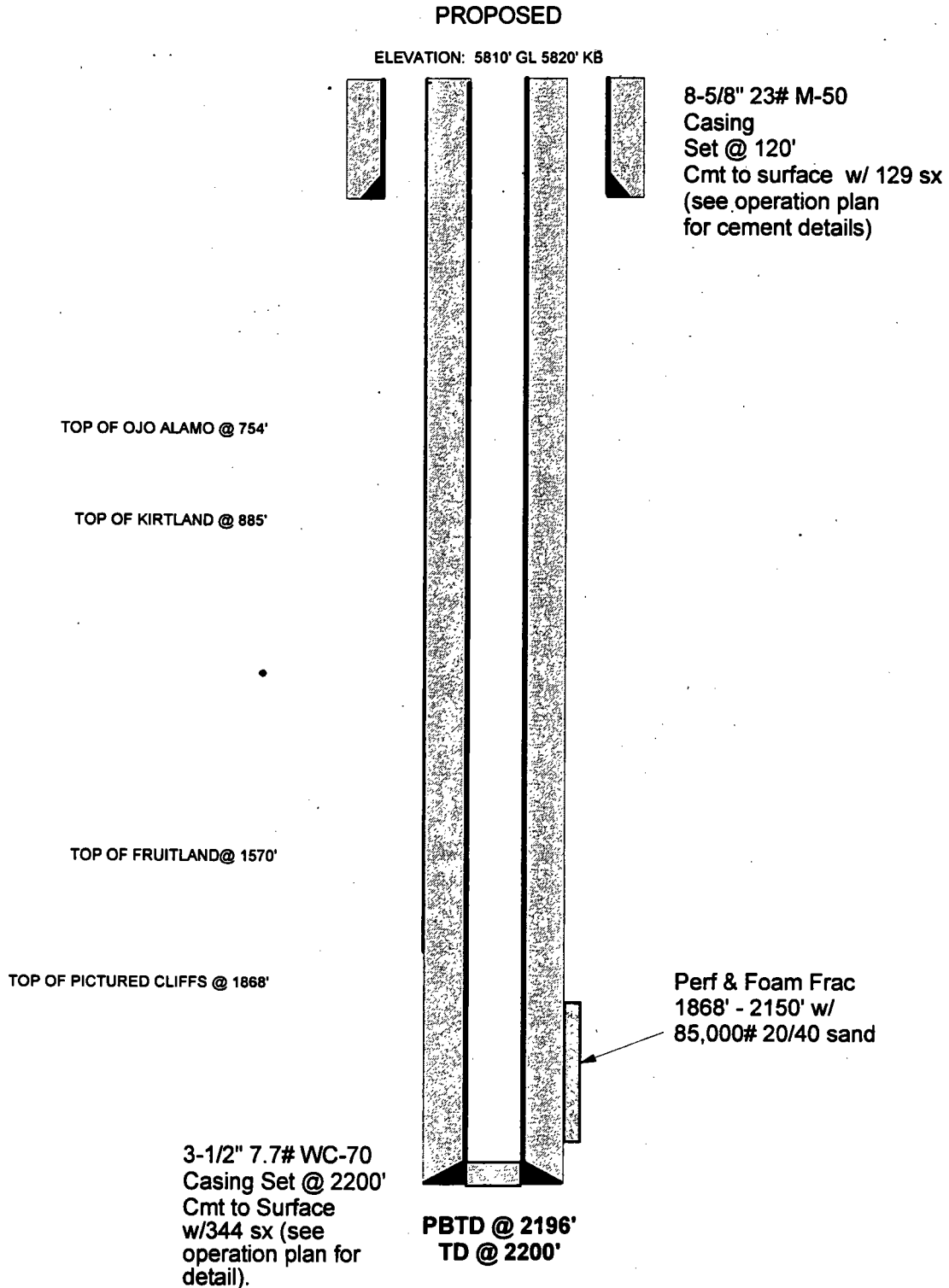
1/17/97

Date

Angel Peak B #14R

Section 13G, T-28-N, R-11-W
San Juan County, NM

FULCHER KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC



1980, Hobbs, NM 88241-1980
II
Drawer DD, Artesia, NM 88211-0719
District III
100 Rio Brazos Rd., Aztec, NM 87410
District IV
PO 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

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045- <u>29430</u>	Pool Code 72439	Pool Name South Blanco Pictured Cliffs
Property Code <u>20142</u>	Property Name Brookhaven Com C	Well Number 4R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6229'

¹⁰ Surface Location

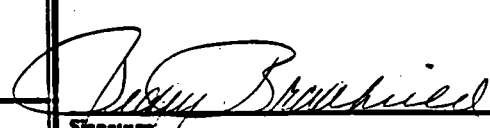
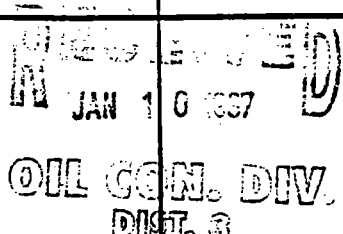
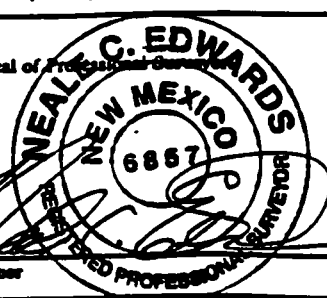
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
L	36	27-N	8-W		1650	South	910	West	S.J.

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 1.60	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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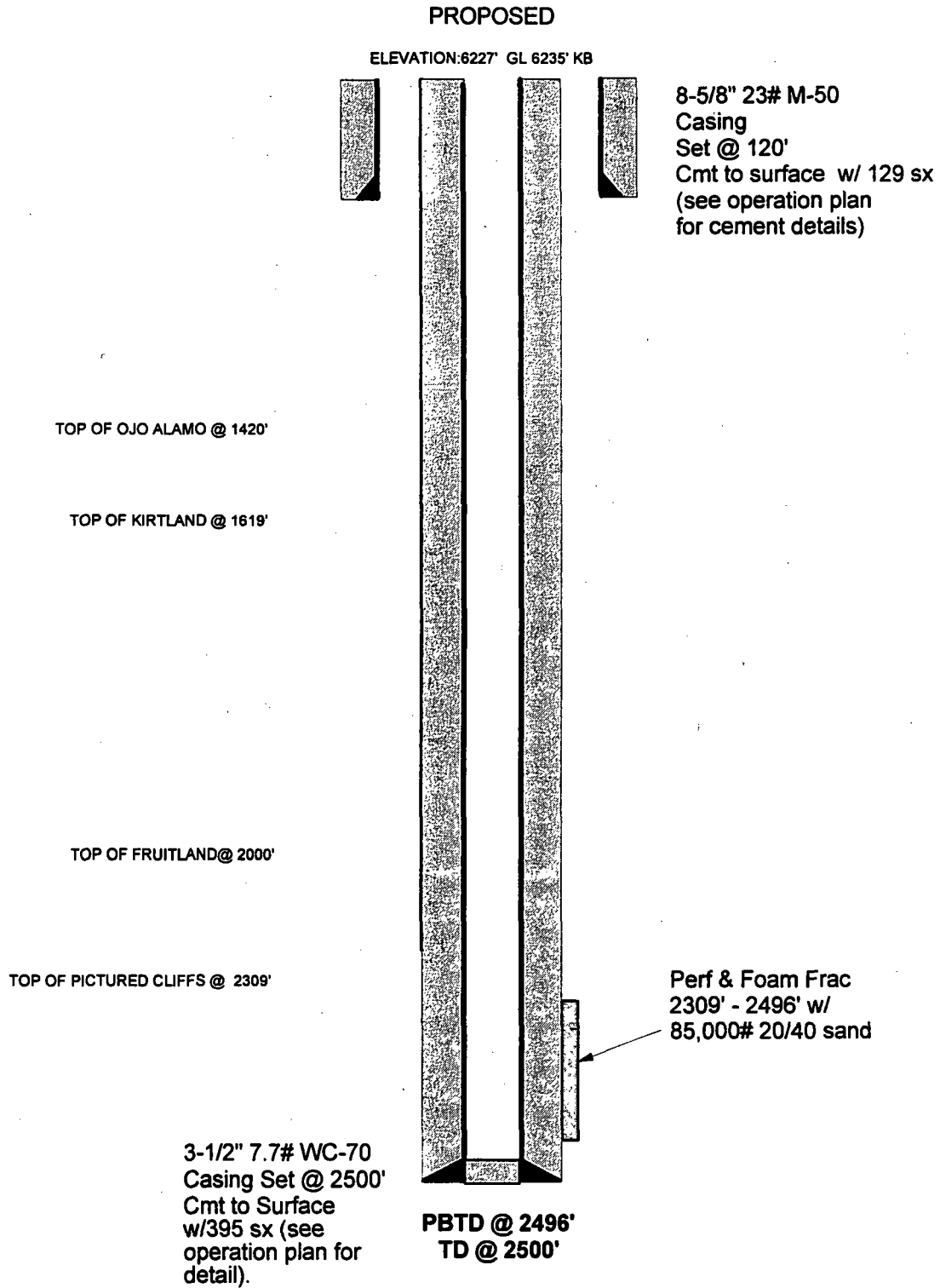
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	2581.92'	2750.88'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Peggy Bradfield Printed Name Regulatory Administrator Title 1-9-97 Date
5368.44'	B-111 25-50	36	
910'			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. 12/16/96 Date of Survey Signature and Seal of Professional Surveyor  6857 Certificate Number
E-1199-8	1650'	E-3148-20	2777.94'
			2619.54'

Brookhaven Com C #4R

Section 36L, T-27-N, R-08-W
San Juan County, NM

SOUTH BLANCO PICTURED CLIFFS WELLBORE SCHEMATIC



OPERATIONS PLAN

Well Name: Brookhaven Com C #4R
Location: 1650' FSL, 910' FWL Section 36, T-27-N, R-8-W
 San Juan County, New Mexico
 Latitude 36° 36' 02", Longitude 107° 52' 12"
Formation: South Blanco Pictured Cliffs
Elevation: 6229' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1420'	
Ojo Alamo	1420'	1619'	aquifer
Kirtland	1619'	2000'	
Fruitland	2000'	2309'	gas
Fruitland Coal	2150'	2285'	gas
Pictured Cliffs	2309'		gas
Total Depth	2500'		

Logging Program: Mud log 2000-to TD
 Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Coring Program: none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-9.0	40-50	no control
120-2500'	LSND	8.4-9.0	40-60	no control

Casing Program (as-listed, 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 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2500'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1619'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1619'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Brookhaven Com C #4R

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/295 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (640 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The southwest quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.


Drilling Engineer

3/4/97
Date

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
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
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Santa Fe, NM 87504-2088

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-		Pool Code 77200	Pool Name Fulcher Kutz Pictured Cliffs
Property Code 6997	Property Name Feasel		Well Number 1R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6150'

¹⁰ Surface Location

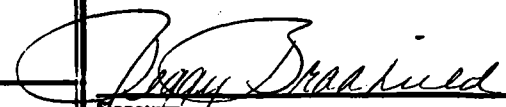
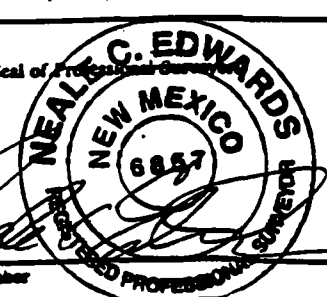
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
M	2	27-N	10-W		1160	South	1180	West	S.J.

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;">4</div> <div style="border: 1px solid black; padding: 5px;">3</div> <div style="border: 1px solid black; padding: 5px;">2</div> <div style="border: 1px solid black; padding: 5px;">1</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px;">5303.76'</div> <div style="border: 1px solid black; padding: 5px;">SF- 046563</div> <div style="border: 1px solid black; padding: 5px;">5274.06'</div> <div style="border: 1px solid black; padding: 5px;">5299.80'</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px;">1180'</div> <div style="border: 1px solid black; padding: 5px;">1160'</div> </div>				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <div style="text-align: right; margin-top: 20px;">  Signature Peggy Bradfield Printed Name Regulatory Administrator Title 2-17-97 Date </div>	
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. <div style="text-align: right; margin-top: 10px;">2/04/97</div>				<div style="text-align: right; margin-top: 20px;"> Date of Survey Signature and Seal of Professional Surveyor  Certificate Number </div>	

OPERATIONS PLAN

Well Name: Feasel #1R
Location: 1160' FSL, 1180' FWL Section 2, T-27-N, R-10-W
 San Juan County, New Mexico
 Latitude 36° 36' 02", Longitude 107° 52' 12"
Formation: Fulcher Kutz Pictured Cliffs
Elevation: 6150' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1120'	
Ojo Alamo	1120'	1246'	aquifer
Kirtland	1246'	1846'	
Fruitland	1846'	2073'	gas
Fruitland Coal	1935'	2070'	gas
Pictured Cliffs	2073'		gas
Total Depth	2300'		

Logging Program: Mud log 1850-to TD
 Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Coring Program: three (3) 30' cores 2073-2163' in Pictured Cliffs

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2300'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2300'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1246'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1246'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/266 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (589 cu.ft. of slurry, 75% excess to circulate to

surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

Feasel #1R

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The southwest quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



Drilling Engineer

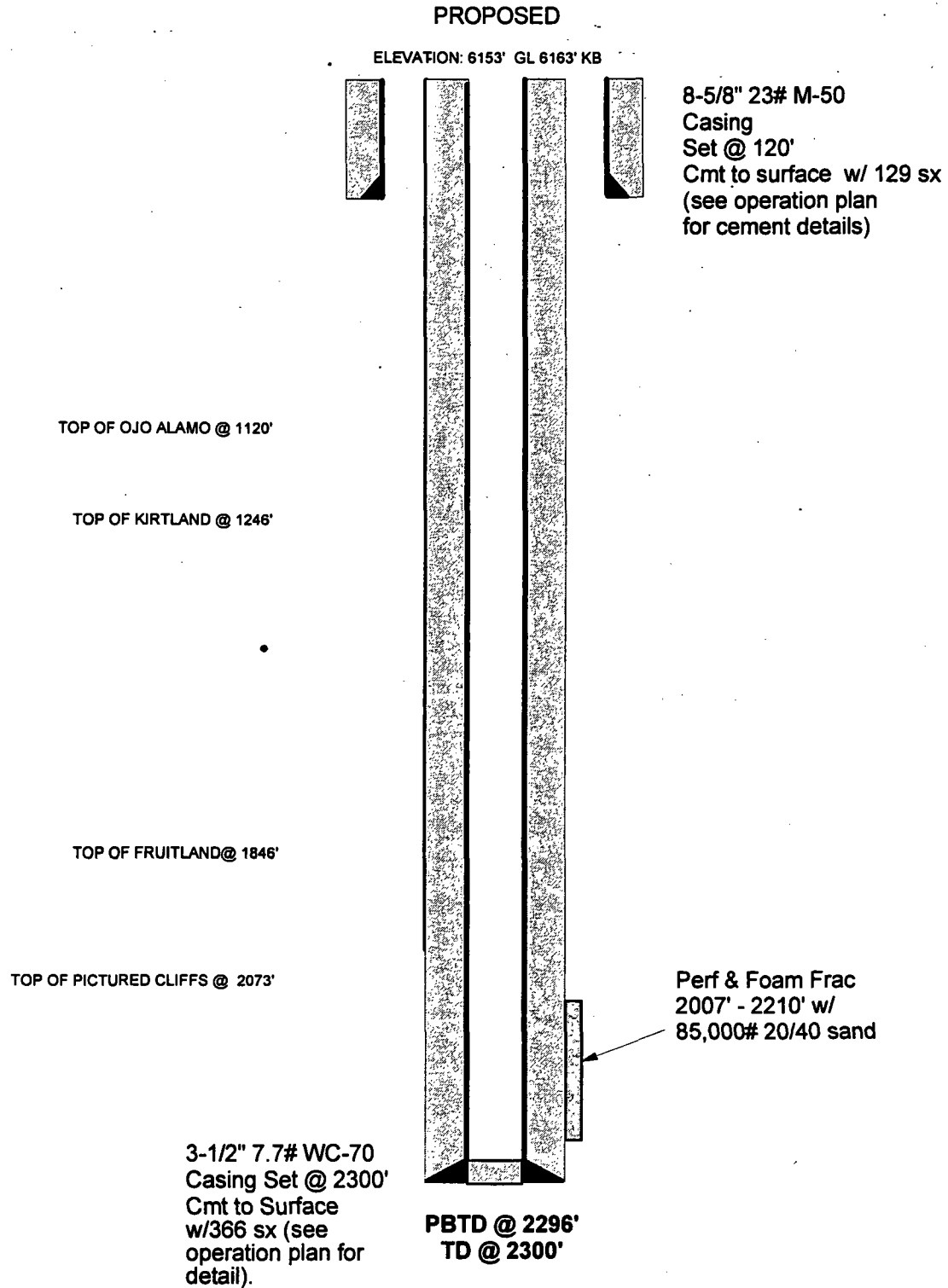


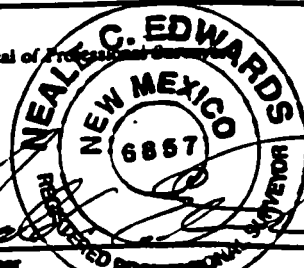
Date

Feasel #1R

Section 2M, T-27-N, R-10-W
San Juan County, NM

FULCHER KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC



16	5284.62'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
5280.00'	SF-077951	Signature Peggy Bradfield Printed Name Regulatory Administrator Title
26	1510' 255' 5280.00'	Date
5280.00'	5280.00'	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plan 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. 11/25/96 Date of Survey Signature and Seal of Professional Surveyor  6857 Certificate Number

OPERATIONS PLAN

Well Name: Frost #1R
Location: 1510' FNL, 255' FEL Section 26, T-27-N, R-10-W
 San Juan County, New Mexico
 Latitude 36° 32.97, Longitude 107° 51.37
Formation: Fulcher Kutz Pictured Cliffs
Elevation: 6661' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1485'	
Ojo Alamo	1485'	1650'	aquifer
Kirtland	1650'	2150'	
Fruitland	2150'	2463'	gas
Fruitland Coal	2325'	2461'	gas
Pictured Cliffs	2463'		gas
Total Depth	2700'		

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2700'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csq. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2700'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1650'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1650'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/324 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (691 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

Frost #1R

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The northeast quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

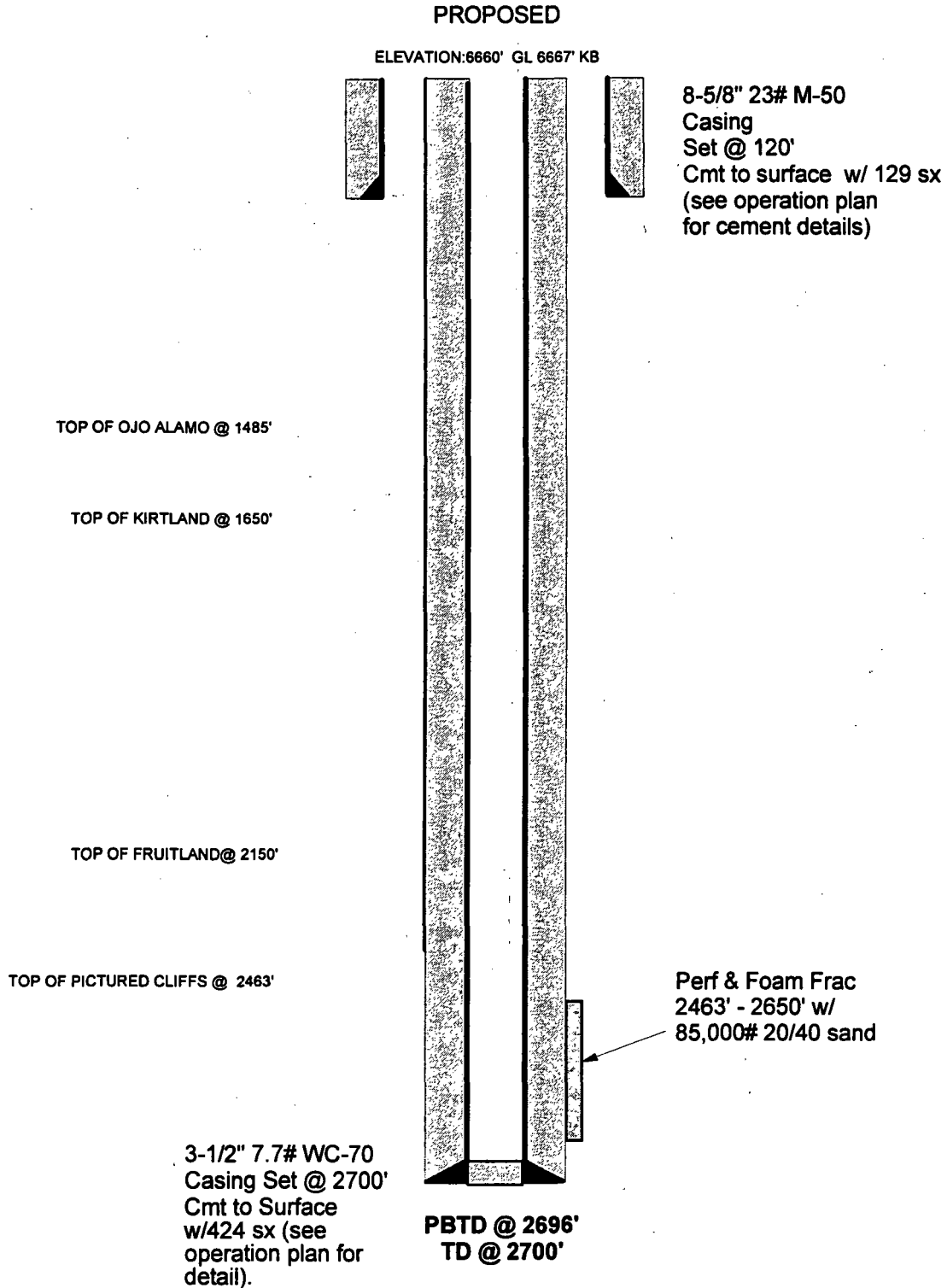
Drilling Engineer

Date

Frost #1R

Section 26H, T-27-N, R-10-W
San Juan County, NM

FULCHER KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC



District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer 00, 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
Energy, Minerals & Natural Resources Department

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

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-		Pool Code 72439	Pool Name So. Blanco Pictured Cliffs
Property Code 7138	Property Name Huerfanito Unit		Well Number 45R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6159'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
M	24	27-N	9-W		1140	South	1180	West	S.J.

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedication Acres 1.60	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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

<p>16</p> <p>2567.40'</p> <p>2652.54'</p> <p>24</p> <p>NAV-G065211</p> <p>1180'</p> <p>1140'</p> <p>5261.52'</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p>Signature Perry Bradfield</p> <p>Printed Name Regulatory Administrator</p> <p>Title</p> <p>Date</p>

OPERATIONS PLAN

Well Name: Huerfanito Unit #45R
Location: 1140' FSL, 1180' FWL Section 24, T-27-N, R-9-W
 San Juan County, New Mexico
 Latitude 36° 33.38, Longitude 107° 44.67
Formation: So. Blanco Pictured Cliffs
Elevation: 6159' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1239'	
Ojo Alamo	1239'	1370'	aquifer
Kirtland	1370'	1870'	
Fruitland	1870'	2110'	gas
Fruitland Coal	2060'	2102'	gas
Pictured Cliffs	2110'		gas
Total Depth	2400'		

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2400'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csq. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2400'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1370'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1370'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/280 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (614 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

Huerfanito Unit #45R

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2)). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The southwest quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

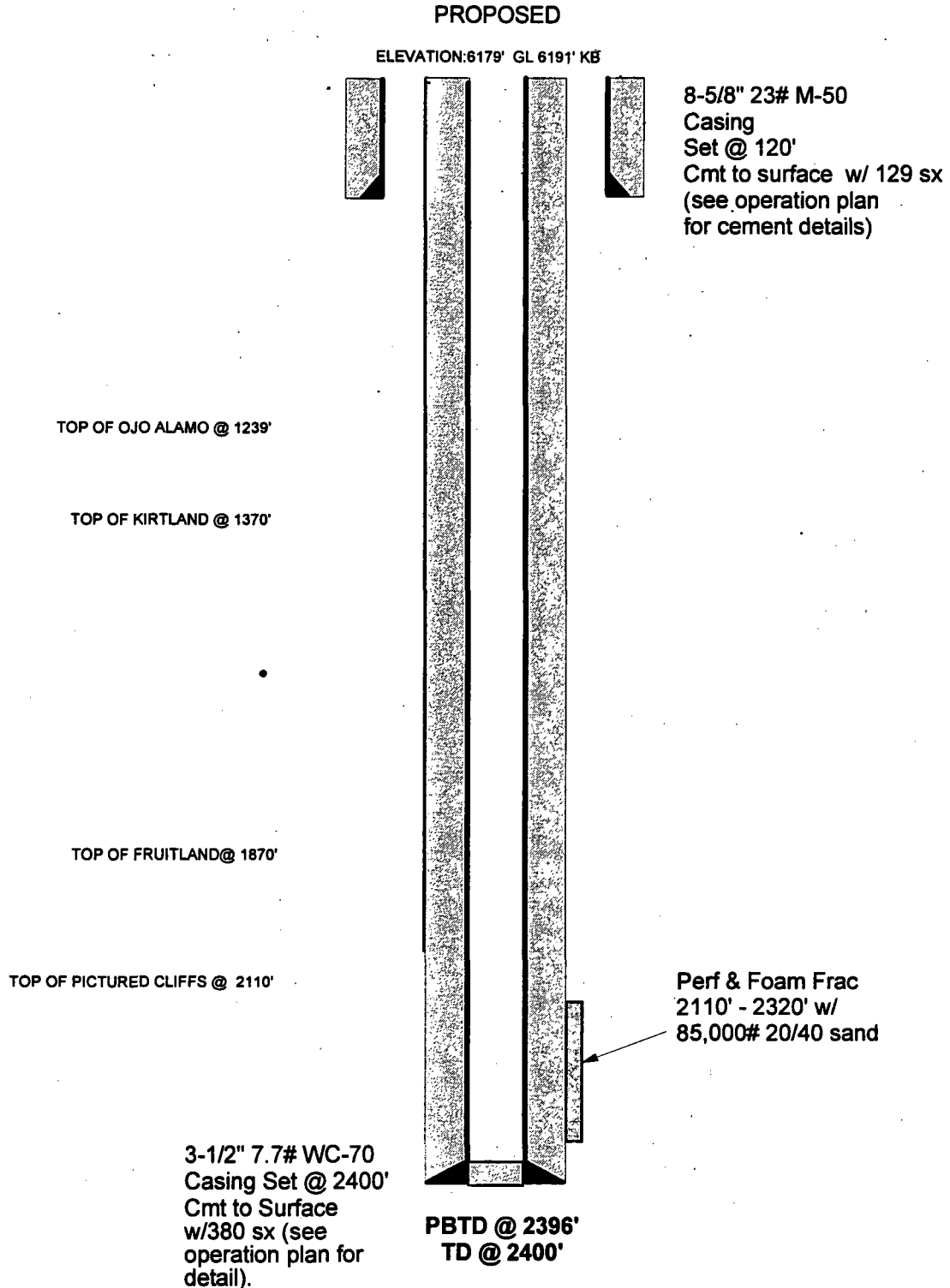
Drilling Engineer

Date

Huerfanito Unit #45R

Section 24M, T-27-N, R-9-W
San Juan County, NM

SOUTH BLANCO PICTURED CLIFFS WELLBORE SCHEMATIC



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
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-	Pool Code 71439	Pool Name Ballard Pictured Cliffs
Property Code 7138	Property Name Huerfanito Unit	Well Number 70R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6293'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	10	26-N	9-W		1610	North	1645	East	S.J.

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 Dedication Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.

160

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	5198.16'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
	1610'	
	1645'	
	SF-078135	
5280.66'	10	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of direct surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 11/27/96 Date of Survey Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 6857 6857 Certificate Number
5204.76'		

January 13, 1997

OPERATIONS PLAN

Well Name: Huerfanito Unit #70R
Location: 1610'FNL, 1645'FEL Section 10, T-26-N, R-9-W
 San Juan County, New Mexico
 Latitude 36° 30.33, Longitude 107° 46.30
Formation: Ballard Pictured Cliffs
Elevation: 6293'GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1170'	
Ojo Alamo	1170'	1279'	aquifer
Kirtland	1279'	1727'	
Fruitland	1727'	2007'	gas
Fruitland Coal	1934'	1997'	gas
Pictured Cliffs	2007'		gas
Total Depth	2250'		

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0-120'	Spud	8.4-9.0	40-50	no control
120-2250'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2250'	3 1/2"	7.7#	WC-70

Tubing Program: -none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1279'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1279'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/259 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (576 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

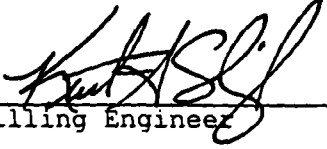
Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The northeast quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



Drilling Engineer

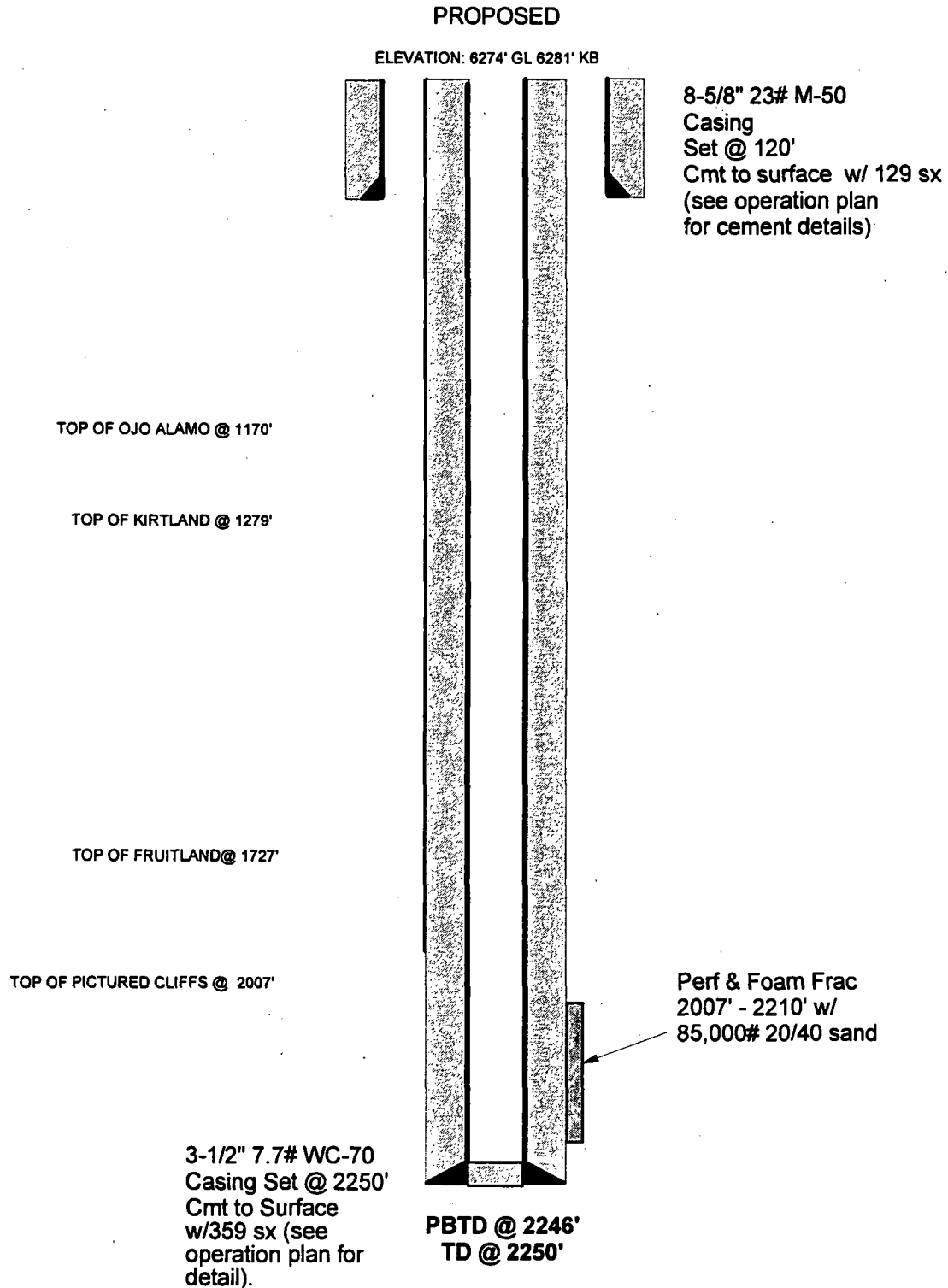
1/17/97

Date

Huerfanito unit #70R

Section 10G, T-26-N, R-9-W
San Juan County, NM

BALLARD PICTURED CLIFFS WELLBORE SCHEMATIC



District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer 00, 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
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
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Santa Fe, NM 87504-2088

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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-	Pool Code 77200	Pool Name Fulcher Kutz Pictured Cliffs
Property Code 7139	Property Name Huerfano Unit	Well Number 6R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6519'

¹⁰ Surface Location

UL or lot no. M	Section 31	Township 27-N	Range 10-W	Lot Ids	Feet from the 790	North/South line South	Feet from the 1290	East/West line West	County S.J.
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¹¹ Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 168.18	¹³ Joints or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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	5408.04'	17 OPERATOR CERTIFICATION
1		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
2		Signature Peggy Bradfield
		Printed Name Regulatory Administrator
		Title
		Date
3	31	18 SURVEYOR CERTIFICATION
SF-078422		I hereby certify that the well location shown on this plat was placed 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.
		11/25/96
1290'		Date of Survey
4	790'	Signature and Seal of Professional Surveyor
5417.28'		NEALE C. EDWARDS NEW MEXICO 6857 6857 Certification Number

OPERATIONS PLAN

Well Name: Huerfano Unit #6R
Location: 790' FSL, 1290' FWL Section 31, T-27-N, R-10-W
 San Juan County, New Mexico
 Latitude 36° 31.62, Longitude 107° 56.47
Formation: Fulcher Kutz Pictured Cliffs
Elevation: 6519' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1052'	
Ojo Alamo	1052'	1185'	aquifer
Kirtland	1185'	1857'	
Fruitland	1857'	2080'	gas
Fruitland Coal	1890'	2073'	gas
Pictured Cliffs	2080'		gas
Total Depth	2400'		

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2400'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csq. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2400'	3 1/2"	7.7#	WC-70

Tubing Program: -none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1185'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1185'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/280 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (614 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

Huerfano Unit #6R

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2)). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2)). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The southwest quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

Drilling Engineer

Date

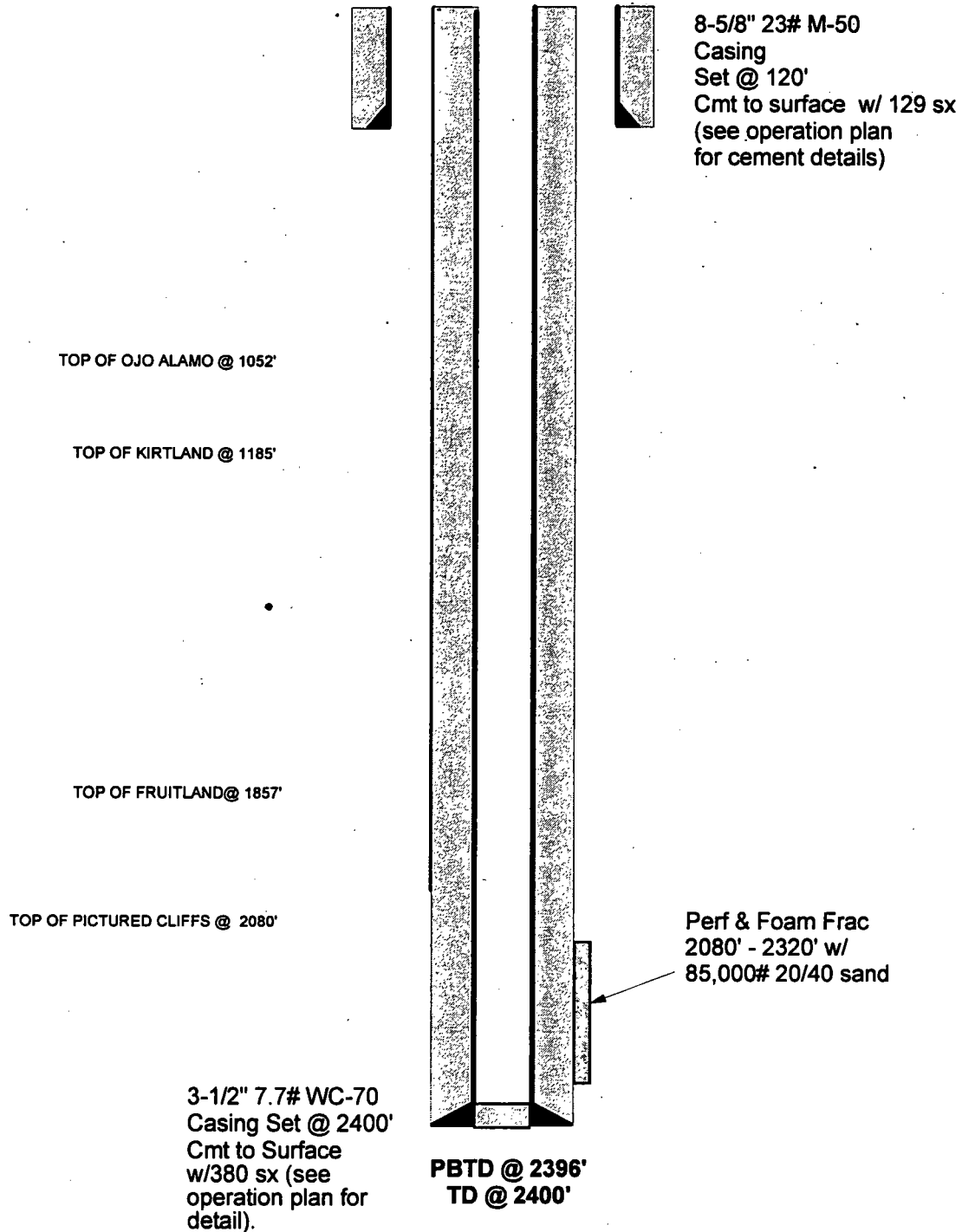
Huerfano #6R

Section 31K, T-27-N, R-10-W
San Juan County, NM

WEST KUTZ PICTURED CLIFFS WELLBORE SCHEMATIC

PROPOSED

ELEVATION: 6506' GL 6516' KB



OPERATIONS PLAN

Well Name: McManus #4R
Location: 1130' FSL, 1530' FEL Section 19, T-26-N, R-8-W
 San Juan County, New Mexico
 Latitude 36° 28.16, Longitude 107° 43.12
Formation: Ballard Pictured Cliffs
Elevation: 6359' GL

Formation:	Top	Bottom	Contents
Surface	Nacimiento	1291'	
Ojo Alamo	1291'	1397'	aquifer
Kirtland	1397'	1782'	
Fruitland	1782'	2059'	gas
Fruitland Coal	1928'	2058'	gas
Pictured Cliffs	2059'		gas
Total Depth	2300'		

Logging Program: Hi Res Ind, Den/Neut, MRL/GR to Total Depth.

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0-120'	Spud	8.4-9.0	40-50	no control
120-2300'	LSND	8.4-9.0	40-60	no control

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

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 1/4"	0 - 120'	8 5/8"	23.0#	M-50
6 1/4"	0 - 2300'	3 1/2"	7.7#	WC-70

Tubing Program: - none

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.
 Centralizers will be run in accordance with Onshore Order #2.

3 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 1397'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1397'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/266 sx of 65/35 Class "B" Poz w/6% gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (589 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

McManus #4R

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2)). Prior to drilling out surface casing, test rams to 600 psi/30 min.


Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

- * The Pictured Cliffs formation will be completed.
- * Anticipated pore pressure for the Pictured Cliffs is 300 psi.
- * This gas is dedicated.
- * The southeast quarter of the section is dedicated to the Pictured Cliffs.
- * New casing will be utilized.
- * Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



Drilling Engineer

2/19/97

Date

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
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-	Pool Code 71439	Pool Name Ballard Pictured Cliffs
Property Code 7309	Property Name McManus	Well Number 4R
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6359'

¹⁰ Surface Location

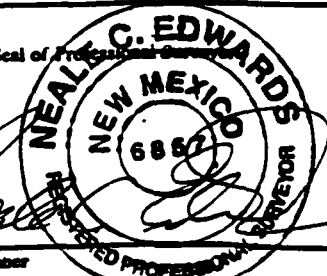
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	19	26-N	8-W		1130	South	1530	East	S.J.

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 Dedication Acres 160	¹³ Joints or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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 1294.26'	1300.86'	2601.06'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date 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. 11/26/96 Date of Survey Signature and Seal of Registered Surveyor  Certificate Number 6857
1			
2			
3			
5256.90'	19		
		NM-04226	
		1530'	
4		1130'	
1414.38'	1406.46'	2628.12'	

McManus #4R

Section 19O, T-26-N, R-8-W
San Juan County, NM

BALLARD PICTURED CLIFFS WELLBORE SCHEMATIC

PROPOSED

ELEVATION: 6359' GL 6366' KB

