BURLINGTON RESOURCES

SAN EBRANDI S. 1999 Sent Federal Express

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



Re:

Hubbell #6R

2660'FSL, 1420'FWL Section 17, T-29-N, R-10-W, San Juan County, New Mexico

30-045-29730

Dear Mr. Stogner:

Burlington Resources is applying for administrative approval of an unorthodox gas well location for the Aztec Pictured Cliffs pool.

This application for the referenced location is at the request of the Bureau of Land Management due to ledges and cliffs of the terrain as shown on the attached topographic map, which outlines the standard windows.

Production from the Aztec Pictured Cliffs pool is to be included in 160 acre gas spacing for the southwest quarter (SW/4) in Section 17. This well will be drilled as a replacement for the Hubbell #6 located at 990' FSL 1510' FWL Section 17, T-29-N, R-10-W (30-045-20792). The Pictured Cliffs in the Hubbell #6 was plugged and abandoned September 1990, and the well was recompleted to the Basin Fruitland Coal.

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 showing terrain features.

Three copies of this application are being submitted to Taurus Exploration USA 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.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

xc:

NMOCD - Aztec District Office

Sad fried

Bureau of Land Management - Farmington

WAIVER

Taurus Exploration USA hereby waives objection to Burlington Resources' application for a non-standard-location for the Hubbell #6R as proposed above.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

### Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 4. Location of Well 2660'FSL, 1420' FWL Latitude 36° 43.6 , Longitude 107° 54.7 **The Policy State of	
1b. Type of Well GAS 2. Operator BURLINGTON Oil & Gas Company 3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 4. Location of Well 2660'FSL, 1420' FWL Latitude 36° 43.6, Longitude 107° 54.7 Latitude 36° 43.6, Longitude 107° 54.7 Distance in Miles from Nearest Town 5 miles to Blanco 10. Field, Pool, Wildcat Aztec Pictur 11. Sec., Twn, Rge, Mer. Sec. 17, T-2 API # 30-045- 14. Distance in Miles from Nearest Town 5 miles to Blanco 15. Distance from Proposed Location to Nearest Property or Lease Line 1420' 16. Acres in Lease 17. Acres Assigned to W	
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1420' 16. Acres in Lease 17. Acres Assigned to W	NM
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18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1000'	
19. Proposed Depth 20. Rotary or Cable Tools	s
2250' Rotary	
21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work 5738' GR	will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	. 4
24. Authorized by: May had had //-6-95 Regulatory/Compliance Administrator Date	_
PERMIT NO APPROVAL DATE	
APPROVED BY 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.

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

District II PO Drawer DD. Antesia, 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-Revised February 21, 1 Instructions on t

Submit to Appropriate District Of-State Lease - 4 Cop Fee Lease - 3 Cop

AMENDED REPO

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Page 1 November 2, 1998

OPERATIONS PLAN

Well Name: Hubbell #6R

Location: 2660' FSL, 1420' FWL, Section 17, T-29-N, R-10-W

San Juan County, New Mexico

Latitude 36° 43.6', Longitude 107° 54.7'

Formation: Aztec Pictured Cliffs

Elevation: 5738'GR

Formation:	Top	Bottom	Contents
Surface	Nacimiento	9 10 ′	
Ojo Alamo	910'	980'	aquifer
Kirtland	980'	1779'	
Fruitland	1779'	2050'	gas
Pictured Cliffs	2050'		gas
Total Depth	י2250 י		

Logging Program: None

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2250'	Non-dispersed	8.4-9.5	30-60	no control

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

Hole Size	Depth Interval	<u>Csq.Size</u>	<u>Wt.</u>	<u>Grade</u>
8 3/4"	0 - 120'	7"	20.0#	J-55
6 1/4"	0 - 2250'	3 1/2"	9.3#	J-55

Tubing Program: - none

Float Equipment: 7" 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 @ 980'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 980'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 7" x 3 1/2" x 11" 2000 psi screw on independent wellhead.

Cementing:

7" surface casing - Cement with 46 sx Class "3" cement with 1/4# flocele/sx and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/204 sx Class "B" cement w/2% calcium chloride, and 1/4# flocele/sx. Tail w/90 sx Class "B" cement w/2% calcium chloride (724 cu.ft. of slurry, 120% excess to circulate to surface). WOC 3 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.

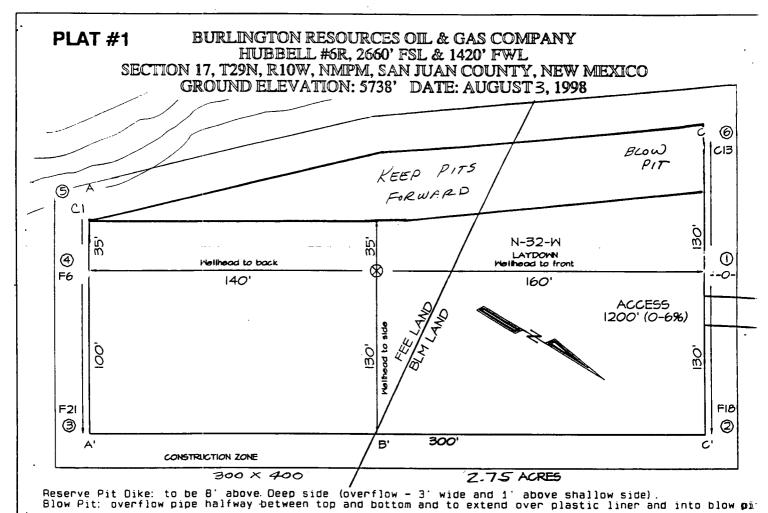
From surface to TD - choke manifold (Reference Figure #3).

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 Fruitland is 300 psi and 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



A-A'
5748'
5728'

B-B'
5738'
5728'

C-C'
5748'
5738'
5738'
5738'

Note: Contractor should call One—Call for location of any marked or unmarked buried pipelines or cab. on well pad and/or access road at least two (2) working days prior to construction

Re: Hubbell #6R

2660'FSL, 1420'FWL Section 17, T-29-N, R-10-W, San Juan County, New Mexico

30-045-29730

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.

Taurus Exploration USA 2198 Bloomfield Highway Farmington, NM 87401

Reggy Bradfield

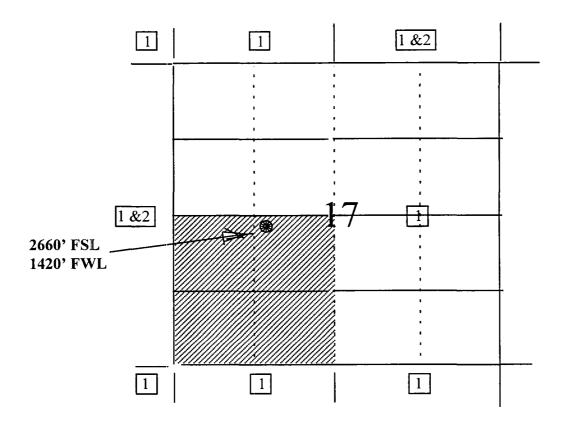
Regulatory/Compliance Administrator

BURLINGTON RESOURCES OIL AND GAS COMPANY

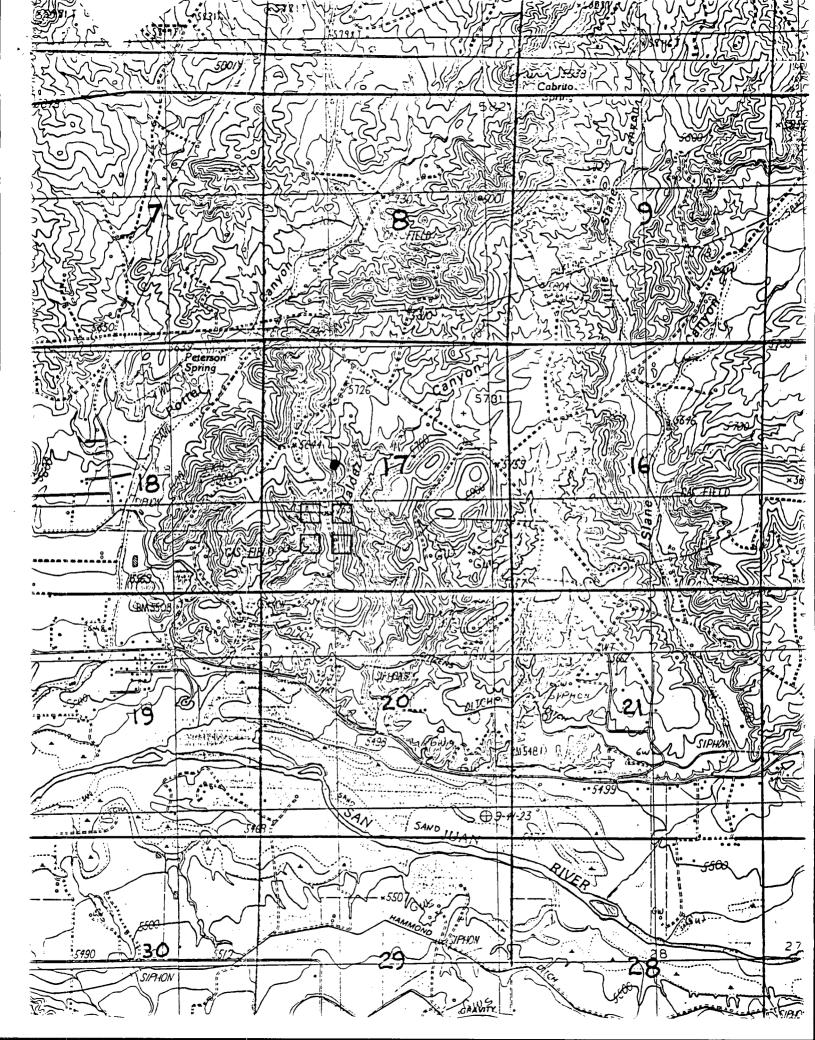
Hubbell #6R OFFSET OPERATOR \ OWNER PLAT Non Standard Location

Pictured Cliffs (SW 1/4) Formation Well

Township 29 North, Range 10 West



- 1) Burlington Resources
- 2) Taurus Exploration U.S.A.Attn: Rich Corcoran2198 Bloomfield Hwy.Farmington, NM 87401



ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -2040 South Pacheco, Santa Fe, NM 87505



		ADMINISTRATIVE APPLICATION COVERSHEET
THIS	COVERSHEET	S MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applic	[PC-Pc	/ms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] Ilified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	[A]	APPLICATION - Check Those Which Apply for [A] [S [B [S]] S E E E E E E E E E
	[B]	Commingling - Storage - Measurement DHC DCTB PLC PC DOLS DOLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD PIPI DEOR PPR
[2]	NOTIFICA [A]	ATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
•	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached
[3]		ATION / DATA SUBMITTED IS COMPLETE - Certification
Regula approv ORRI)	itions of the al is accurate is common.	It I, or personnel under my supervision, have read and complied with all applicable Rules and Oil Conservation Division. Further, I assert that the attached application for administrative and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI I understand that any omission of data (including API numbers, pool codes, etc.), pertinently required notification is cause to have the application package returned with no action taken
Print or	Not	e: Statement must-be completed by an individual with managerial and/or supervisory capacity. Signature Title

BURLINGTON RESOURCES

SAN BURN DIVISIONS Sent Federal Express

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

Re:

Hubbell #6R

2660'FSL, 1420'FWL Section 17, T-29-N, R-10-W, San Juan County, New Mexico

30-045-29730

Dear Mr. Stogner:

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Production from the Aztec Pictured Cliffs pool is to be included in 160 acre gas spacing for the southwest quarter (SW/4) in Section 17. This well will be drilled as a replacement for the Hubbell #6 located at 990' FSL 1510' FWL Section 17, T-29-N, R-10-W (30-045-20792). The Pictured Cliffs in the Hubbell #6 was plugged and abandoned September 1990, and the well was recompleted to the Basin Fruitland Coal.

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 showing terrain features.

Three copies of this application are being submitted to Taurus Exploration USA 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.

Sincerely, had build Peggy Bradfield Regulatory/Compliance Administrator xc:

NMOCD - Aztec District Office

Bureau of Land Management - Farmington

WAIVER

Taurus Exploration USA hereby waives objection to Burlington Resources' application for a nonstandard location for the Hubbell #6R as proposed above.

By: Date:	
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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. Type of Work 5. Lease Number SF-078716 DRILL Unit Reporting Number 1b. Type of Well 6. If Indian, All. or Tribe GAS 2. Operator 7. Unit Agreement Name BURLINGTON RESOURCES Oil & Gas Company 3. Address & Phone No. of Operator 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 **Hubbell** 9. Well Number (505) 326-9700 6R 4. Location of Well 10. Field, Pool, Wildcat 2660'FSL, 1420' FWL Aztec Pictured Cliffs 11. Sec., Twn, Rge, Mer. (NMPM) Latitude 36° 43.6 , Longitude 107° 54.7 Sec. 17, T-29-N, R-10-W API # 30-045-14. Distance in Miles from Nearest Town 12. County 13. State 5 miles to Blanco San Juan MM 15. Distance from Proposed Location to Nearest Property or Lease Line 1420' 16. Acres in Lease 17. Acres Assigned to Well 161.03 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1000' 19. **Proposed Depth** 20. Rotary or Cable Tools 22501 Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 5738' GR 23. **Proposed Casing and Cementing Program** See Operations Plan attached Authorized by: 24 tory/Compliance Administrator APPROVAL DATE PERMIT NO. APPROVED 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.

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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 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

ÆLL LOCATIO	DNA N	ACREAGE	DEDICATION	PLAT
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Page 1 November 2, 1998

OPERATIONS PLAN

Well Name: Hubbell #6R

Location: 2660' FSL, 1420' FWL, Section 17, T-29-N, R-10-W

San Juan County, New Mexico

Latitude 36^o 43.6', Longitude 107^o 54.7'

Formation: Aztec Pictured Cliffs

Elevation: 5738'GR

Formation:	Top	Bottom	Contents
Surface	Nacimiento	910′	
Ojo Alamo	910'	980'	aquifer
Kirtland	980'	1779'	
Fruitland	1779'	2050'	gas
Pictured Cliffs	2050'		gas
Total Depth	2250'		

Logging Program: None

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0- 120'	Spud	8.4-9.0	40-50	no control
120-2250'	Non-dispersed	8.4-9.5	30-60	no control

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

<u>Hole Size</u>	Depth Interval	<u>Csq.Size</u>	Wt.	<u>Grade</u>
8 3/4"	0 - 120'	7"	20.0#	J-55
5 1/4"	0 - 2250'	3 1/2"	9.3#	J-55

Tubing Program: - none

Float Equipment: 7" 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 @ 980'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 980'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: $7" \times 3 \cdot 1/2" \times 11" \cdot 2000$ psi screw on independent wellhead.

Cementing:

7" surface casing - Cement with 46 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (54 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

3 1/2" production casing - Lead w/204 sx Class "B" cement w/2% calcium chloride, and 1/4# flocele/sx. Tail w/90 sx Class "B" cement w/2% calcium chloride (724 cu.ft. of slurry, 120% excess to circulate to surface). WOC 3 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.

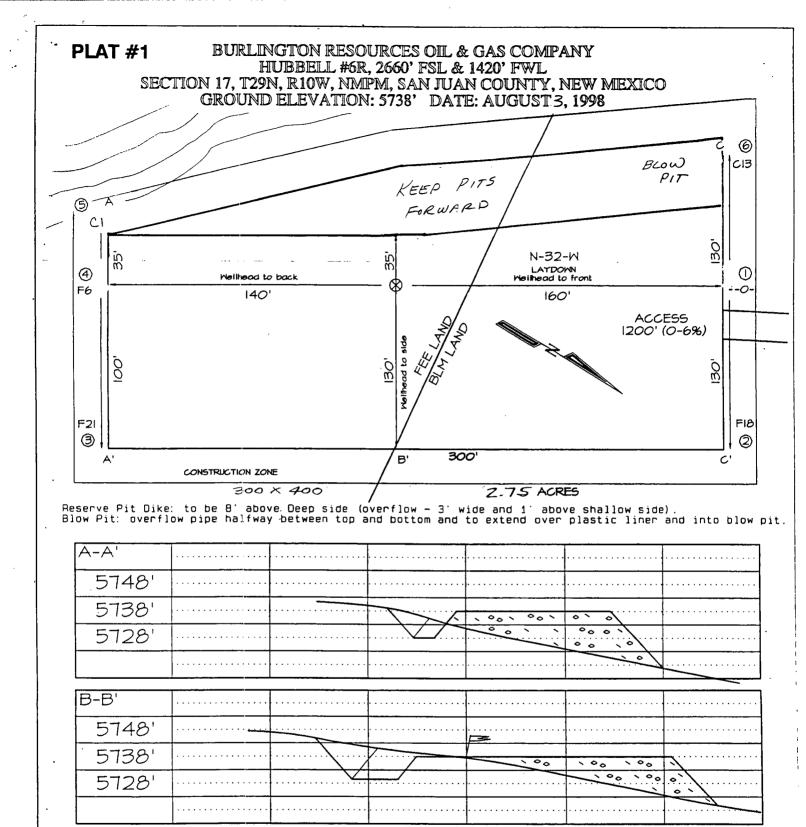
From surface to TD - choke manifold (Reference Figure #3).

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 Fruitland is 300 psi and 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



Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

C-C'

5748'

5738'

5728'

Re:

Hubbell #6R

 $2660'FSL,\,1420'FWL\,\,Section\,\,17,\,T-29-N,\,R-10-W,\,San\,\,Juan\,\,County,\,New\,\,Mexico$

30-045-29730

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.

Taurus Exploration USA 2198 Bloomfield Highway Farmington, NM 87401

Reggy Bradfield

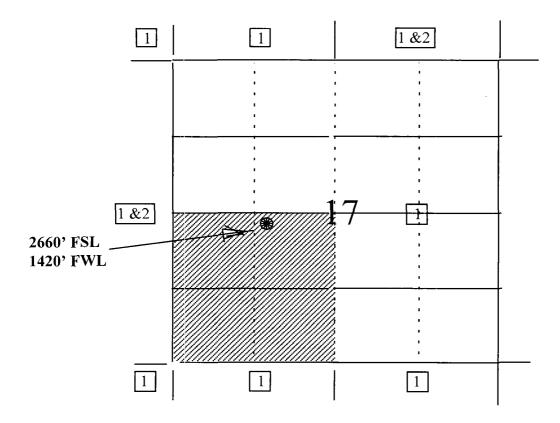
Regulatory/Compliance Administrator

BURLINGTON RESOURCES OIL AND GAS COMPANY

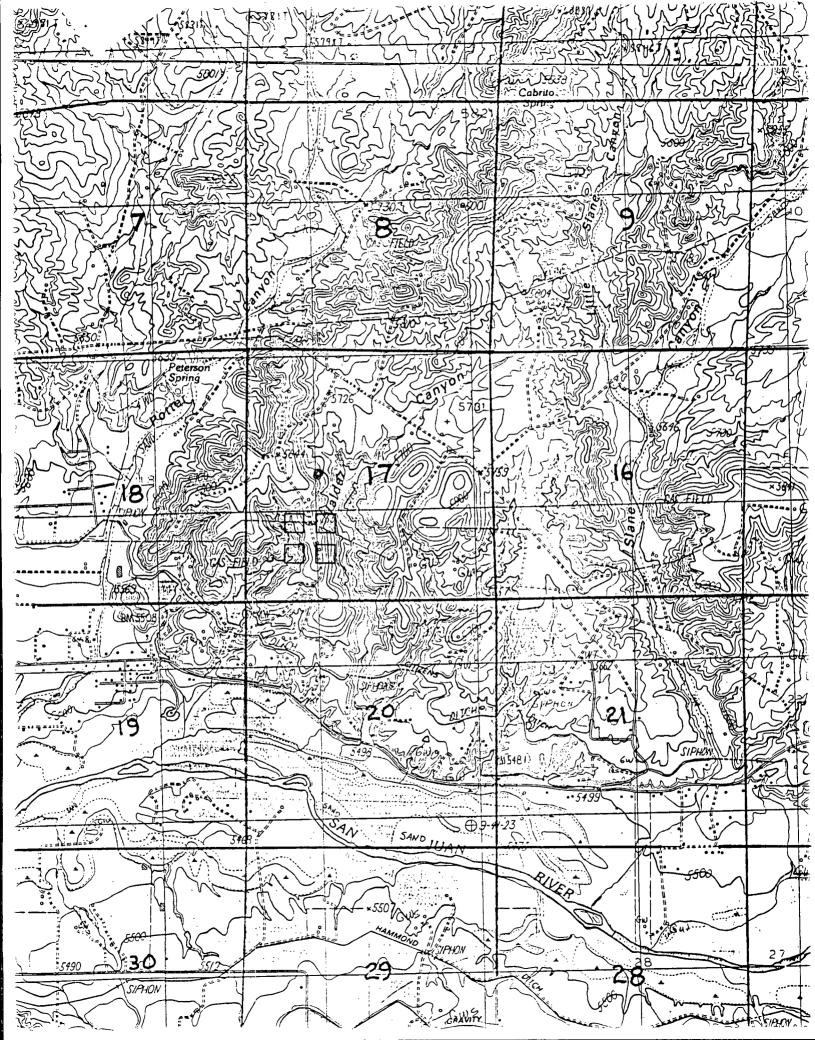
Hubbell #6R OFFSET OPERATOR \ OWNER PLAT Non Standard Location

Pictured Cliffs (SW 1/4) Formation Well

Township 29 North, Range 10 West



- 1) Burlington Resources
- Taurus Exploration U.S.A.Attn: Rich Corcoran2198 Bloomfield Hwy.Farmington, NM 87401



Page: 1 Document Name: untitled

CMD : ONGARD 02/10/99 16:30:42 OG5SECT INQUIRE LAND BY SECTION OGOMES -TPL7 PAGE NO: 1 Sec: 17 Twp: 29N Rng: 10W Section Type: NORMAL 4 3 2 1 38.75 38.82 37.25 37.10 Federal owned | Federal owned | Federal owned | Federal owned Α A Α 5 6 7 8 38.76 38.83 37.76 37.61 Federal owned Federal owned Federal owned Federal owned Ά Α Α PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 PF07 BKWD PF08 FWD

PF09 PRINT PF10 SDIV

PF11

PF12

Date: 2/10/99 Time: 04:33:08 PM

Page: 1 Document Name: untitled

CMD : OG5SECT	ONGARD INQUIRE LAND BY SECTION		02/10/99 16:30:47 OGOMES -TPL7 PAGE NO: 2
Sec : 17 Twp : 29N Rng : 10W Section Type : NORMAL			
11	K	10	9
40.45	40.00	38.82	38.31
Federal owned	 Federal owned A	 Federal owned 	 Federal owned
12	l ! N	 0	 13
40.58	40.00	40.00	38.83
Federal owned	 Federal owned	 Federal owned 	 Federal owned
	A. A	A	A
	 		·
PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11			PF06 PF12

Date: 2/10/99 Time: 04:33:13 PM

Page: 1 Document Name: untitled

CMD: 02/10/99 16:31:20

OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TPL7

OGRID Idn : 14538 API Well No: 30 45 29730 APD Status(A/C/P): A

Opr Name, Addr: BURLINGTON RESOURCES OIL & GAS C Aprvl/Cncl Date : 01-14-1999

801 CHERRY ST

FT WORTH, TX 76102

Prop Idn: 7133 HUBBELL Well No: 6 R

U/L Sec Township Range Lot Idn North/South East/West

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Surface Locn : K 17 29N 10W FTG 2660 F S FTG 1420 F W

OCD U/L : K API County : 45

Work typ (N/E/D/P/A) : N Well typ (O/G/M/I/S/W/C) : G Cable/Rotary (C/R) : F

Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation: 5738

State Lease No: Multiple Comp (Y/N) : N

Prpsd Depth : 2250 Prpsd Frmtn : AZTEC PICTURED CLIFFS

E0009: Enter data to modify record

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM

PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12

Date: 2/10/99 Time: 04:33:47 PM