

CMD : ONGARD 05/23/00 19:40:00
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TPEM

OGRID Idn : 14538 API Well No: 30 45 30067 APD Status(A/C/P): A
Opr Name, Addr: BURLINGTON RESOURCES OIL & GAS C Aprvl/Cncl Date : 02-23-2000
801 CHERRY ST
FT WORTH, TX 76102

Prop Idn: 7129 HOWELL J Well No: 5

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: D	11	30N	08W			FTG 540 F N	FTG 735 F W
OCD U/L	: D		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 : 6210

State Lease No: Multiple Comp (S/M/C) : N
Prpsd Depth : 7820 Prpsd Frmtn : BASIN DAKOTA

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

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

05/23/00 19:39:33
OGOMES -TPEM
PAGE NO: 1

Sec : 11 Twp : 30N Rng : 08W Section Type : NORMAL

D 40.00 Federal owned A A	C 40.00 Federal owned	B 40.00 Federal owned A	A 40.00 Federal owned A
E 40.00 Fee owned	F 40.00 Fee owned	G 40.00 Federal owned	H 40.00 Federal owned

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

05/23/00 19:39:38
OGOMES -TPEM
PAGE NO: 2

Sec : 11 Twp : 30N Rng : 08W Section Type : NORMAL

L 40.00 Federal owned A A A	K 40.00 Fee owned	J 40.00 Federal owned	I 40.00 Federal owned
M 40.00 Fee owned	N 40.00 Fee owned	O 40.00 Fee owned A	P 40.00 Fee owned

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

Stogner, Michael

From: Perrin, Charlie
Sent: Friday, May 26, 2000 7:30 AM
To: Stogner, Michael
Subject: Burlington Resources Howell J # 5 11-30N-08W Api 30-045-30067

Good Morning Mike:

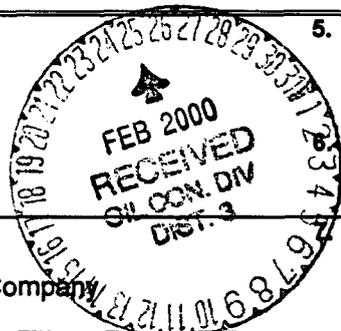
Bruce Martin looked at this location and recommends approval for the NSL.

Have a great weekend!
Charlie

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1999 DEC -6 PM 2:10
BURLINGTON, NM



1a. Type of Work DRILL	5. Lease Number NM-010468 Unit Reporting Number	
1b. Type of Well GAS	If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company	Unit Agreement Name	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Howell J 9. Well Number 5	
4. Location of Well 540' FNL, 735' FWL Latitude 36° 49.8, Longitude 107° 39.1	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) D Sec. 11, T-30-N, R-8-W API # 30-045-30067	
14. Distance in Miles from Nearest Town 10 miles from Navajo Dam Post Office	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 540'		
16. Acres in Lease	17. Acres Assigned to Well 320 N/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 75'		
19. Proposed Depth 7820'	This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.	
	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6210' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"	
24. Authorized by: <u><i>Jean Cole</i></u> Regulatory/Compliance Administrator	<u>12-1-99</u> Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY /s/ Charlie Beecham TITLE _____ DATE FEB 23 2000

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.

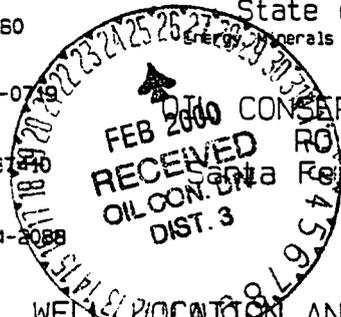
chsc HOLD COPY FOR MSL

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 87400

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



State of New Mexico
Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

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

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

FEB 2000 - 6 PM 2:10

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045 <i>30067</i>		Pool Code 71599	Pool Name Basin Dakota
Property Code 7129	Property Name HOWELL J		Well Number 5
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6210'

Surface Location

UL of lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
D	11	30N	8W		540	NORTH	735	WEST	SAN JUAN

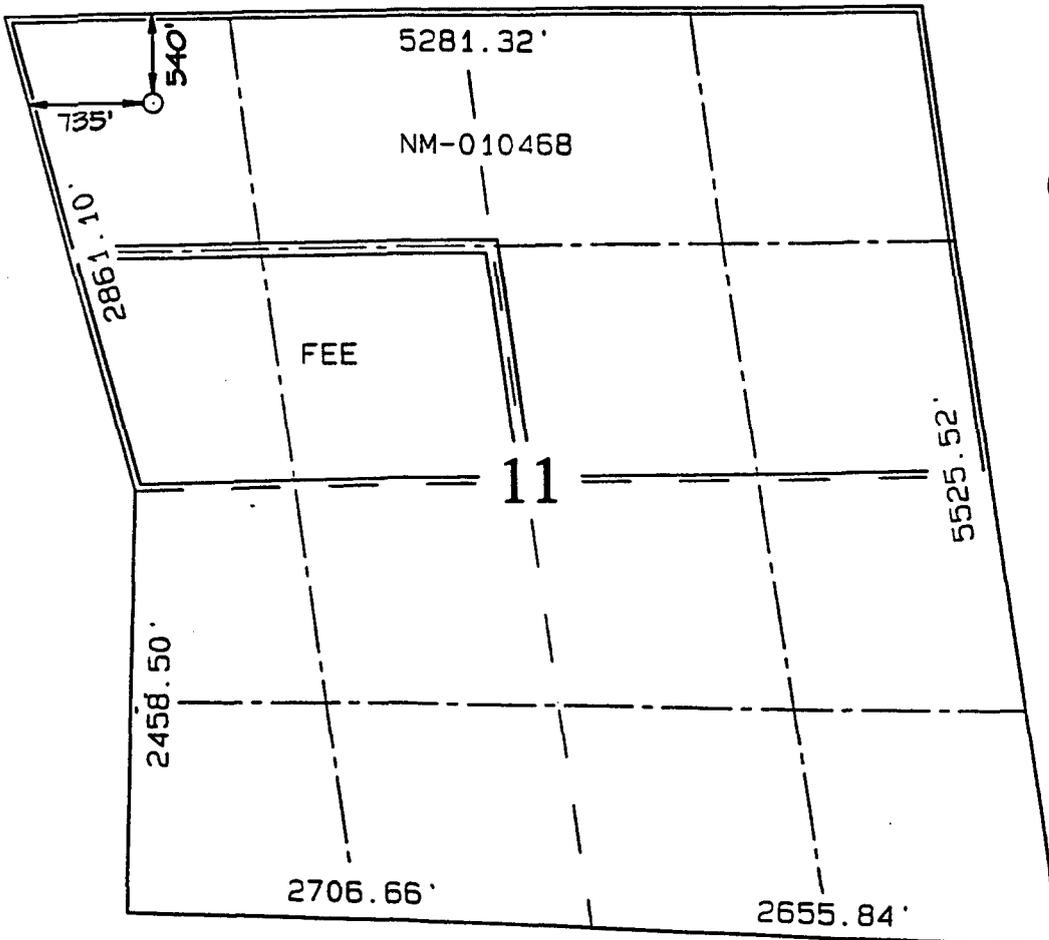
Bottom Hole Location If Different From Surface

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

Dedicated Acres N/320	Joint or Infill	Consolidation Code	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



OPERATOR CERTIFICATION

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

Peggy Cole
Signature

Peggy Cole
Printed Name
Regulatory Administrator
Title

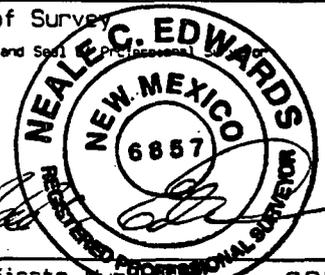
12-1-99
Date

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.

OCTOBER 15, 1999

Date of Survey
Signature and Seal



Certificate Number 6857

OPERATIONS PLAN

Well Name: Howell J #5
Location: 540' FNL, 735' FWL, Sec 11, T-30-N, R-8-W
San Juan County, NM
Latitude 36° 49.8, Longitude 107° 39.1
Formation: Basin Dakota
Elevation: 6210' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1923'	
Ojo Alamo	1923'	2109'	aquifer
Kirtland	2109'	2842'	gas
Fruitland	2842'	3202'	gas
Pictured Cliffs	3202'	3362'	gas
Lewis	3362'	3468'	gas
Intermediate TD	3462'		
Mesa Verde	3468'	4185'	gas
Chacra	4185'	4959'	gas
Massive Cliff House	4959'	5005'	gas
Menefee	5005'	5346'	gas
Massive Point Lookout	5346'	5705'	gas
Mancos	5705'	6628'	gas
Gallup	6628'	7364'	gas
Greenhorn	7364'	7422'	gas
Graneros	7422'	7505'	gas
Dakota	7505'		gas
TD (4 1/2" liner)	7820'		

Logging Program:

Open hole - IEL-GR, CNL-CDL, ML
Cased hole - CBL-CCL-GR - TD to surface
Cores - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3462'	LSND	8.4-9.0	30-60	no control
3462- 7820'	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>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3462'	7"	20.0#	J-55
6 1/4"	3362' - 7820'	4 1/2"	10.5#	K-55

Tubing Program:

0' - 7820' 2 3/8" 4.7# J-55

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.

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 Figure #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 3000 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 3% 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/314 sx Class "B" w/3% sodium metasilicate, 7# gilsonite/sx and 1/2# flocele/sx. Tail w/90 sx 50/50 Class "B" Poz w/2% calcium chloride, 2% gel (1041 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.

7" intermediate casing alternative two stage: Stage collar at 2742'. First stage: cement with w/153 sx Class "B" 50/50 poz w/2% gel, 2% calcium chloride, 0.5 pps Cellophane. Second stage: 283 sx Class "B" with 3% sodium metasilicate, 1/2 pps Cellophane, 10 pps Gilsonite (1041 cu.ft., 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 2752'. Two turbolating centralizers at the base of the Ojo Alamo at 2752'. 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" x 7" overlap. Lead with 504 sx 50/50 Class "H" Poz with 2% gel, 0.25# flocele/sx, 5# gilsonite/sx, 0.2% retardant and 0.4% fluid loss additive (641 cu.ft.), 40% excess to cement 4 1/2" x 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.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

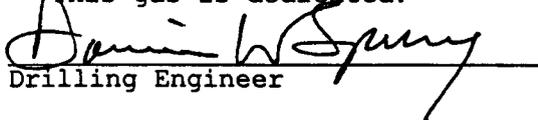
The following equipment will be operational while gas/mist drilling:

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

Fruitland Coal	300 psi
Pictured Cliffs	600 psi
Mesa Verde	700 psi
Dakota	2500 psi
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The north half of Section 11 is dedicated to the Dakota in this well.
- This gas is dedicated.


Drilling Engineer

12/3/99
Date

BURLINGTON RESOURCES OIL & GAS COMPANY HOWELL J #5

540' FNL & 735' FNL, SECTION II, T30N, R8W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

APD MAP #1

NO NEW CONSTRUCTION
NWNW SECTION II, T30N, R8W.

