UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SEP MAR

la.	Type of Work	7	5. Lease Number	
	DRILL		NMSF-078049-	
			Unit Reporting Number	(i)
		And the second of the second o	* t · · · · · · ·	16
1b.	Type of Well	+ 1	6. If Indian, All. or Tribe	7.5
	GAS			
2.	Operator		7. Unit Agreement Name	
	BURLINGTON			
	RESOURCES Oil & Ga	s Company		
3.	Address & Phone No. of Opera		8. Farm or Lease Name	
	PO Box 4289, Farming	gton, NM 87499	Bolin-Hardie	
			9. Well Number	
	(505) 326- 970 0		#1 M	
1.	Location of Well		10. Field, Pool, Wildcat	. V
	Unit E (SWNW), 2130' 1	FNL, 670' FWL	Basin Dakota/ Blanc	o mesav
			- 11 Sec. Two Boe Mer	(NMPM)
	Latitude 360 41.0328'	N	E 11. Sec., Twn, Rge, Mer. Sec. 34, T29N, R8W	(
	Longitude 107° 40.1974		2, 2001 01, 12011, 11011	
	nongroude 10, 10.15,	- **	API# 30-045-3393	2
			A11# 30.043 J.J. 7	
14.	Distance in Miles from Nearest	Town	12. County	13. State
	24 miles to Bloomfield		•	NM
		_,		
15.	Distance from Proposed Locati	on to Nearest Property or Lea	se Line	
16.	Acres in Lease		17. Acres Assigned to W	'ell
	,		320 W2	
18.		on to Nearest Well, Drig, Con	pl, or Applied for on this Lease	
	1076'- Bolin A #1A		20 Determs on Coble Tools	_
19.	Proposed Depth 7551'		20. Rotary or Cable Tools	5
	7551		Rotary	
21.	Elevations (DF, FT, GR, Etc.)		22. Approx. Date Work	will Start
	6510'GL		22. Applox. Date Work	will Start
23.	Proposed Casing and Cementin	ng Program	· · · · · · · · · · · · · · · · · · ·	
	See Operations Plan			
		, 0		
24.	Authorized by: \ Aymac	nodo do anolho	2-79-01	•
	Regulatory	v Analyst	Date	
	regulator)	,	Date	
			The state of the s	
PERMI	T NO.	APPROV	AL DATE	
	4XIIII and	,		last.
APPRO	OVED BY SIMIL ONCE	eog TITLE H	M DATE 7	<u> [[][8</u>]
\ l	polarical Bosont Attack			
	eological Report attached ened and Endangered Species Re	aport attached		
	This format is issued in lieu of U.S.			
			willfully to make to any department or	r agency

This action is subject to technical and procedural review pursuant to 43 CFR 31FR 3 and appeal pursuant to 43 CFR 31FR 3

NWOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED COLORAGE PROGRESSY ANSAY DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 611 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 2040 South Pacheco Santa Fe, NM 87505

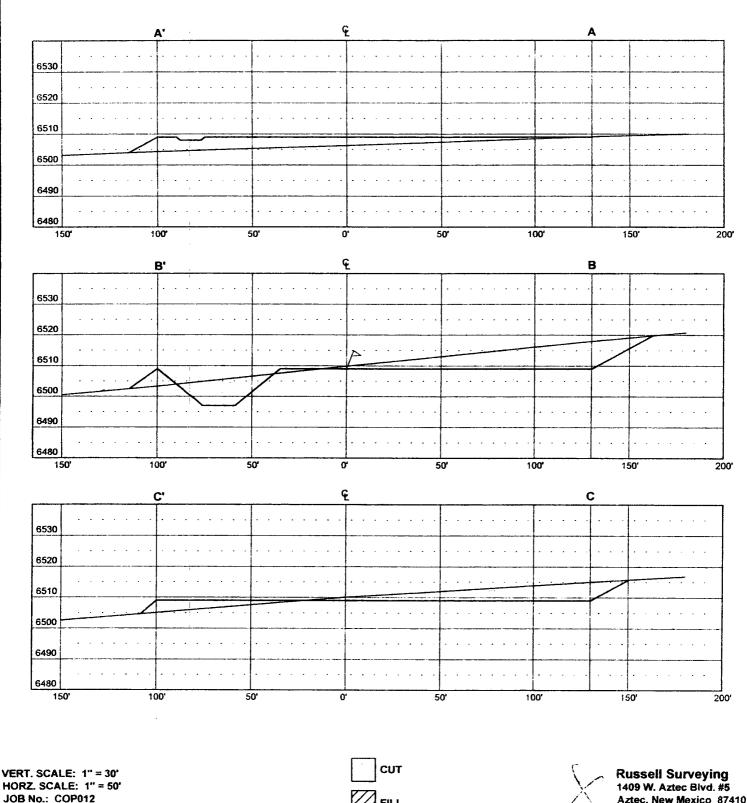
☐ AMENDED REPORT

		1	WELL I		N AND AC	REAGE DED			
° api 30045	Number 33	3922	7231	*Pool Code .9 / 715	99		Pool Nam MESA VERDI	-	
⁴ Property Code				⁶ Property	Name		• #	ell Number	
6839					BOLIN-H			1 M	
OGRID No				DUD! (N	*Operator	Name RCES O&G CO LI		* Elevation 6510'	
14538				BUKLIN		···			
			T	Lot idn	10 Surface	Location North/South line	Feet from the	East/West line	Ta
UL or lot no.	Section 34	Township 29N	Range 8W	TOP TOP	2130'	NORTH	670'	WEST	SAN JUAN
	<u> </u>	<u> </u>	11 Bott	om Hole	Location	If Different Fr	om Surface		- '
UL or lot no.	Section	Township	Range	Lot Ida	Peet from the	North/South line	Feet from the	East/West line	County
E		<u></u>	100 v · · · · · · · · · · · · · · · · · ·	I. All	14 Consolidation	6-1-	¹⁵ Order No.		<u> </u>
Dedicated Acre	2000	(w (a)	19 Joint or	initi	- Consolidation	Code	"Urder No.		
314.76			<u> </u>		<u> </u>				
NO ALLOW	ABLE W					ON UNTIL ALL EEN APPROVED			ONSOLIDATEI
	: 1: 1: 1:			-				······································	
ND 3-1/4" BC 6LM 1655		N 89 24 3			279.33' (M) 282.64' (R)	FND 3-1/4" 8LM 1955		OPERATOR C	
	· · · · · · · · · · · · · · · · · · ·							certify that the information of complete to the best	
					1				
					1		11 40	Tou Clu	c.X
9					1		Signatur	0	D'
38							Pats Printed	y Clugston Name	
4 3					ļ		Sr. Title	Regulatory S	Specialist
5254,34							liue		
670	LAT.	6.68391" N 107.67058	(NAD 83) W (NAD 83)		1		Date		
	LAT.	6 41.0328 N 107 40.1974	I (NAD 27)".	: <u>- </u>			11	URVEYOR CE	
								rtify that the well local from field notes of aci	
				34° l		<u> </u>	me or unde	r my supervision, and to the bost of my bette	that the same is tru J.
EAS	E #USA	SF-0780	49-A				-	UNE 23, 20	06
19.28 N 02.2						,	Date of S		
05							11 /	and Seel of Profession	• .
Z		1				l	11/3		BECK
						<u> </u>			terange Manager Sagar Angel Sagar
						1			
						1		The state of the s	
						1			
						1			
FND 2* 9*						1		AVID RUSSEI	
FND 2" 8C GLO 1916		1				L	Certificate	Kumber	10201

1				
Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103		
District 1	Energy, Minerals and Natural Resource			
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API NO. 30-045- 33922		
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	Indicate Type of Lease		
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr. Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.		
District IV	,			
1220 S. St. Francis Dr., Santa Fe, NM 87505 SUNDRY NOTICE	S AND REPORTS ON WELLS	NMSF-078049-A 7. Lease Name or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPOSALS T	O DRILL OR TO DEEPEN OR PLUG BACK TO A			
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.)	FOR PERMIT" (FORM C-101) FOR SUCH	Bolin-Hardie		
1. Type of Well:	Other	8. Well Number		
Oil Well Gas Well X 2. Name of Operator	Other	9. OGRID Number		
BURLINGTON RESOU	JRCES OIL & GAS COMPANY LP	14538		
3. Address of Operator 3401 E. 30TH STRE	ET, FARMINGTON, NM 87402	10. Pool name or Wildcat Mesaverde / Dakota		
4. Well Location		670' feet from the West line		
Unit Letter E : 21 Section 34		670' feet from the West line RW NMPM County San Juan		
ill Carlotte Park of San 11. E	levation (Show whether DR, RKB, RT, GR, etc.)			
Pit or Below-grade Tank Application	or Closure	科格里科斯科拉斯斯拉尔尼斯特的 中国的高级特别和阿尔斯特的特别的		
Pit type New Drill Depth to Groundwar	ter <pre><100</pre> Distance from nearest fresh water well	<1000 Distance from nearest surface water <1000		
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbls; Construction Material		
1	ppropriate Box to Indicate Nature of N	•		
NOTICE OF IN		SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK		DIAL WORK ALTERING CASING ALTERING CASING AND A		
TEMPORARILY ABANDON PULL OR ALTER CASING		ENCE DRILLING OPNS. P AND A G/CEMENT JOB		
OTHER: New I	orill X OTHER	<u> </u>		
	operations. (Clearly state all pertinent details, ar			
of starting any proposed work). or recompletion.	SEE RULE 1103. For Multiple Completions: A	ttach wellbore diagram of proposed completion		
or recompletion.				
New Drill. Unlined:				
Burlington Resources proposes to con-	struct a new drilling pit and an associated vent/fla	re pit. Based on Burlington's interpretation of the		
		ed pit as detailed in Burlington's Revised Drilling /		
		the NMOCD office. A portion of the vent/flare pit will be ria. Burlington Resources anticipates closing these pits		
	Pit Closure Procedure dated August 2, 2004 on file			
	\ \frac{1}{2}			
I hereby certify that the information above	e is true and complete to the best of my knowledg	and haliaf I fourth a consist that are not an halam		
SIGNATURE 1 AUM CONTO	TITLE	Regulatory Analyst DATE 7/19/2006		
		ez@br-inc.com Telephone No. 505-326-9700		
For State Use Only				
	-VI = 0000 mv nn	B GAS INSPECTOR, DUST. GO SEP 2 1 200E		
APPPROVED BY Conditions of Approval (if any):	TITLE TITLE	B GAS INSPECTION, DIST. DATE SEP 2 1 2006		

BURLINGTON RESOURCES O&G CO LP

BOLIN-HARDIE #1 M 2130' FNL & 670' FWL LOCATED IN THE SW/4 NW/4 OF SECTION 34, T29N, R8W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO **GROUND ELEVATION: 6510', NAVD 88** FINISHED PAD ELEVATION: 6509.0', NAVD 88



HORZ. SCALE: 1" = 50' JOB No.: COP012 DATE: 06/23/06

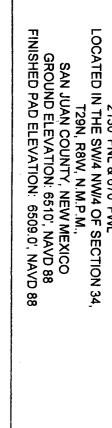


Aztec, New Mexico 87410 (505) 334-8637

LONGITUDE: 107.67058°W EATITUDE: 36.68391°N DATUM: NAD 83

BURLINGTON RESOURCES 0&G CO LP

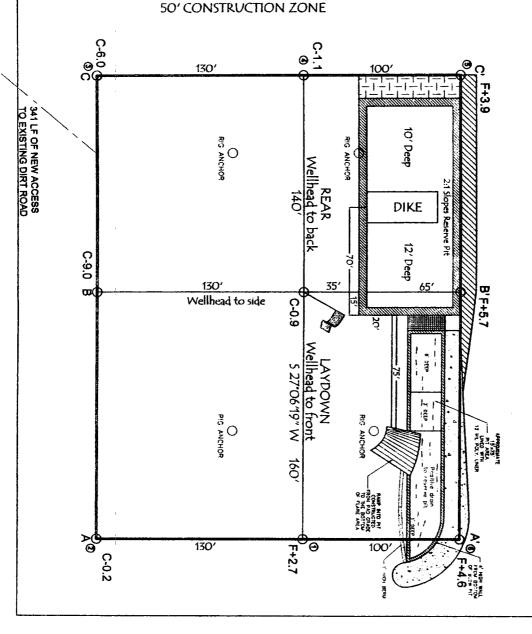
SAN JUAN COUNTY, NEW MEXICO 2130' FNL & 670' FWL T29N, R8W, N.M.P.M., **BOLIN-HARDIE #1 M**



3

9

SCALE = 60



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' MIDE AND 1' ABOVE SHALLOW SIDE).
RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

SCALE: 1" = 60" DATE: 06/22/06 JOB No.: COP012

1 FOOT CONTOUR INTERVAL SHOWN

NOTE:



Russell Surveying 1409 W. Aztec Bivd. #5 Aztec, New Mexico 87410 (505) 334-8637

OPERATIONS PLAN

Well Name:

BOLIN-HARDIE 1M

Location:

2130' FNL & 670' FWL, Section Sec 34 T29N R08W

San Juan County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation:

6510' GL

Formation Tops:	Top	Bottom	<u>Contents</u>
Surface	San Jose	2072'	
Ojo Alamo	2072'	2192'	aquifer
Kirtland	2192'	2877'	gas
Fruitland Coal	2877'	3022'	gas
Pictured Cliffs	3022'	3187'	gas
Lewis	3187'	3617'	
Huerfanito Bentonite	3617'		
Chacra	4002'	4654'	gas
Massive Cliff House	4654'	4819'	gas
Menefee	4819'	5254'	gas
Massive Point Lookout	5254'	5704'	gas
Mancos Shale	5704'	6479'	
Upper Gallup	6479'	7212'	gas
Greenhorn	7212'	7273'	gas
Graneros	7273'	7322'	gas
Two Wells	7322'	7414'	gas
Paguate	7414'	7453'	gas
Upper Cubero	7453'	7483'	gas
Lower Cubero	7483'	7536'	gas
Encinal	7536'	7551'	gas
Total Depth:	7551'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none

Coring - none

DST - none

Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'- 3287'	LSND	8.4 - 9.0	30 - 60	no control
3287' ~ 7551'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

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

<u> Hole Size</u>	Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3287'	7 "	20	J-55
6 1/4"	0' - 7551'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

Depth Interval	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7551'	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, BOPE 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, BOPE 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 4 ½" 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 drill crew.
- All BOP tests & 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 -

Pre-Set Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. 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 with 287 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss (124 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/17 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 270 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (735 cu ft - 50% 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 @ 2192'. Two turbolating centralizers at the base of the Ojo Alamo @ 2192'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Pump 279 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE (553 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.



BURLINGTON RESOURCES

Orilling Rig Choke Menifold Configuration 2000 pel System

2000 psi System Drilling Rig **Burlington Resources**

ROTATING HEAD: THIT APTIBLE Pedid : PLOW WITH BRANCOG UNIO

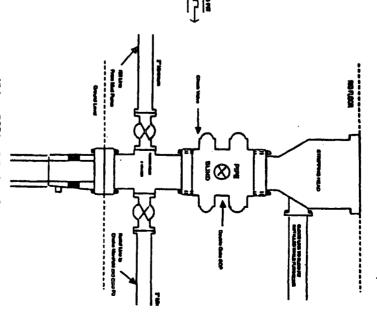
4-20-01

Figure #1

-

Choke manifold installation from Burince Cashig Point to Total Depth. 2,000pel working pressure prinent with two chokes.

Figure #3



finimum BOP installation for all Completion/Workover e zams. A stripping hased to be installed on the top of BCP. All BCP equipment to 2000 pel working erations. 7-1/16" bare, 2000 pel minimum worting eure double gate BOP to be equipped with blind and e or greater excluding 800 pel stripping head Figure #2

BURLINGTON RESOURCES

Completion/Workover Rig BOP Configuration 2,000 pai System

4-20-01

Cementing: Continued

Cement float collar stacked on top of float shoe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• 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 (Air/Mist Drilling):

The following equipment will be operational while air/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.
- 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:

- This will be a Mesaverde and Dakota well.
- 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	2000 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of Section 34 is dedicated to the Mesaverde and Dakota formation.
- This gas is dedicated.

