# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

la.	Type of Work	2005 NOV 21	5. Lease Number	
	DRILL		NMSF-078	
		REC	EIVED Unit Reporting N	umber
lb.	Type of Well GAS		6. If Indian, All. or	8372 B- <i>D&amp; N®</i> Tribe
2.	Operator BURLINGTON		7. Unit Agreement	Name
	RESOURCES OIL&	Gas Company, LP	Allison Un	it
3.	Address & Phone No. of Op PO Box 4289, Farmi		8. Farm or Lease N	ame
			9. Well Number	
	(505) 326-9700		#16M	
1.	Location of Well		10. Field, Pool, Wil	dcat
	Unit E (SWNW), 2280	FNL & 775' FWL	Basin DK / Bla	
	- 50 010		11. Sec., Twn, Rge Sec. 15, T32N,	, Mer. (NMPM)
	Latitude 360 59.0108		Esec. 15, T32N,	R07W
	Longitude 107° 33.61	Liter w Lot.	4 API # 30-045- 3	4077
14.	Distance in Miles from Near		12. County	13. State
			San Juan	NM
15.	Distance from Proposed Loc	ation to Nearest Property or Le	ase Line	
16.	Acres in Lease		17. Acres Assigned MV & DK - 335. 330	
18.	Distance from Proposed Loc	ation to Nearest Well, Drlg, Co		
19.	Proposed Depth		20. Rotary or Cable	Toole
13.	8140'		Rotary	10018
21.	Elevations (DF, FT, GR, Etc. 6583' GL	)	22. Approx. Date	Work will Start
23.	Proposed Casing and Cemer	nting Program		
	See Operations Pla			
24	Authorized by:	1. Prost	11/20	106
24.	Sr. Reco	latory Specialist		
		Theory Specialist		
PERM	IT NO.	APPRO	/AL DATE	
APPR	OVED BY ###	leeder TITLE A	EM DATE	12/4/80
	eological Report attached		. /	

United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

allows simultaneous dedication of Allison 16,16A, The N

• 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 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

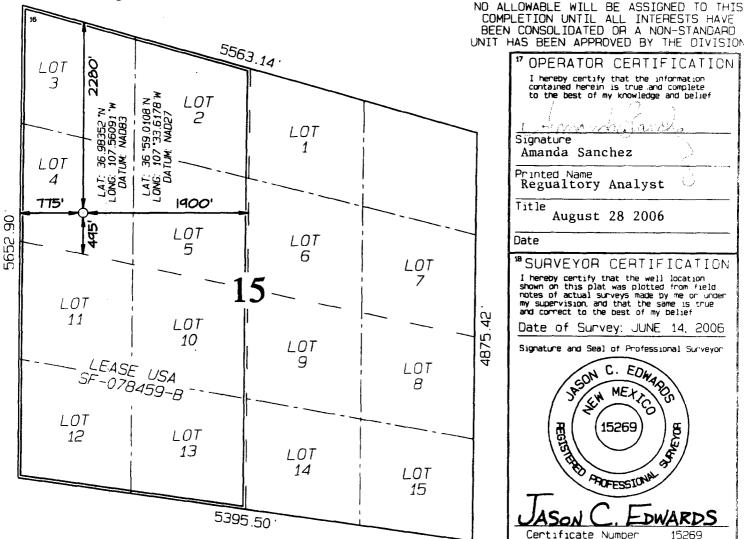
RCVD DEC5'06

AMENDE DILECTOR DIV. DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT?

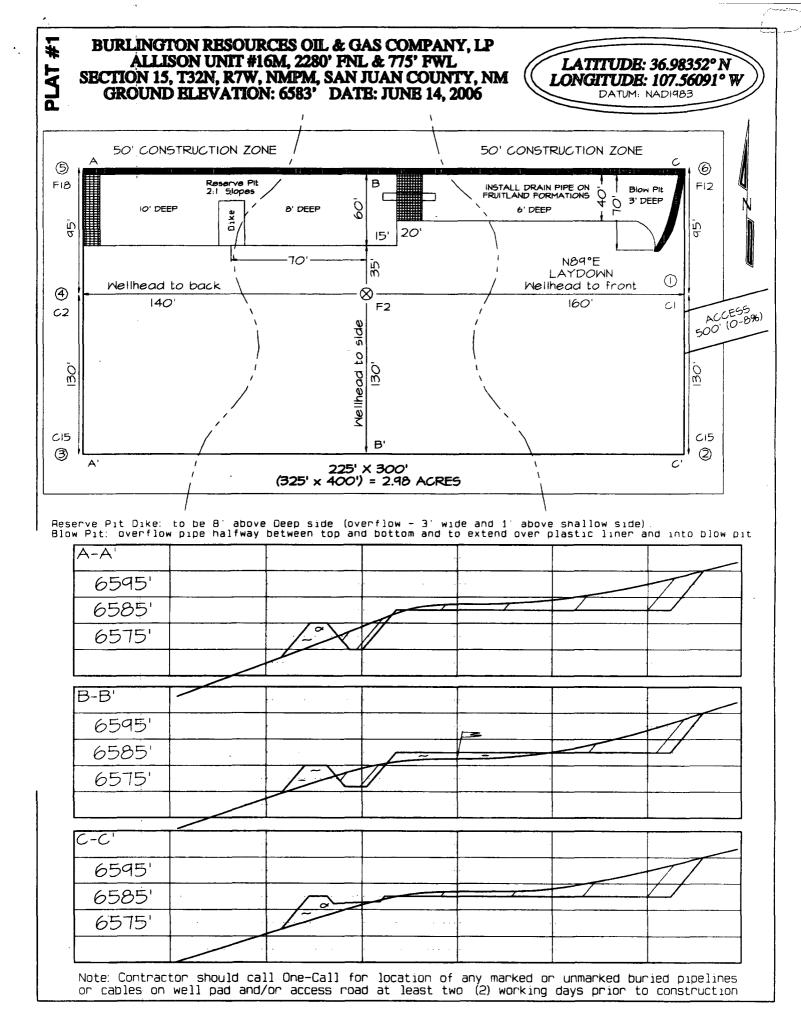
14PI Number 30-045- <b>ЭЦОТТ</b>		'Pool Code 72319/71599	RECEIROPINAME BLANCO MESAVERDE / BASIN DAKO	ΓΑ
'Property Code			operty Name ISON UNIT	°Well Number 15M
6784 'OGAID No.	* Ope		erator Name	°Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY, LP			6583

<sup>10</sup> Surface Location UL or lot no Sect ion Township Lot Idn Feet from the North/South line East/West line County Feet from the 775 Ε 15 32N 7W 2280 NORTH WEST SAN JUAN 11 Bottom Hole Location Ιf Different From Surface UL or lot no Section North/South line Feet from the East/West line County Ε 12 Dedicated Acres 3 Joint or Infill <sup>54</sup> Consolidation Code <sup>25</sup> Order No. 335:360-W2 MV/DK 330.37



COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION " OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Amanda Sanchez Printed Name Regualtory Analyst August 28 2006 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 Date of Survey: JUNE 14, 2006 Signature and Seal of Professional Surveyor SEON C. EDWARD MEXICO ZEW PESTSTAND PROFESSIONAL Certificate Number

Office	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Resources	
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 8821	0 OIL CONSERVATION DIVISION	
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410		6. State Oil & Gas Lease No.
District IV	·	Federal Lease - SF-078459-B
1220 S. St. Francis Dr., Santa Fe, NM 8 SUNDRY NOT	TICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSA	ALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	The state of the second st
DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)	TION FOR PERMIT" (FORM C-101) FOR SUCH	Allison Unit
1. Type of Well:		8. Well Number
Oil Well Gas Well	X Other	#16M
2. Name of Operator		9. OGRID Number
3. Address of Operator	SOURCES OIL & GAS COMPANY LP	14538
· ·	TREET, FARMINGTON, NM 87402	Basin Dakota / Blanco MV
4. Well Location		
Unit Letter E : Section 15	2280' feet from the North line and Township 32N Rng 70	775' feet from the West line NMPM County San Juan
	1. Elevation (Show whether DR, RKB, RT, GR, etc.)	THAT IN COUNTY Sail stail
	6482' GL	
Pit or Below-grade Tank Application	or Closure	
Pit type New Drill Depth to Groun	· · · · · · · · · · · · · · · · · · ·	>1000 Distance from nearest surface water <200'
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material
	CHANGE PLANS COMME	SUBSEQUENT REPORT OF:  AL WORK  NCE DRILLING OPNS.  CEMENT JOB  ALTERING CASING  P AND A
	w Drill Pit X OTHER:	
OTHER: Net  13. Describe proposed or comp	w Drill Pit    Iteled operations. (Clearly state all pertinent details, and rk). SEE RULE 1103. For Multiple Completions: Att	give pertinent dates, including estimated date
OTHER: New  13. Describe proposed or comp of starting any proposed wo	leted operations. (Clearly state all pertinent details, and	give pertinent dates, including estimated date
OTHER:  New Drill, Lined:  Burlington Resources proposes to Burlington's interpretation of the Burlington's Revised Drilling / W portion of the vent/flare pit will b	leted operations. (Clearly state all pertinent details, and rk). SEE RULE 1103. For Multiple Completions: Att construct a new drilling pit, an associated vent/flare pit Ecosphere's risk ranking criteria, the new drilling pit an orkover Pit Construction / Operation Procedures dated	give pertinent dates, including estimated date ach wellbore diagram of proposed completion  and a pre-set mud pit (if required). Based on and pre-set mud pit will be lined pits as detailed in November 11, 2004 on file at the NMOCD office. A ed as per the risk ranking criteria. Burlington Resources
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# OPERATIONS PLAN

<u>Well Name:</u>

ALLISON UNIT 16M

Location:

2280' FNL & 775' FWL, Section Sec 15-T32N-R07W

San Juan County, New Mexico

Formation:

Blanco Mesaverde/Basin Dakota

Elevation: 6583' GL

Formation Tops:	Top	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	2312'	
Ojo Alamo	2312'	2390'	aquifer
Kirtland	2390'	3125'	gas
Fruitland Coal	3125'	3447'	gas
Pictured Cliffs Main	3447'	3565'	gas
Lewis	3565'	4290'	
Huerfanito Bentonite	4290'		
Chacra	4735'	5452'	gas
Massive Cliff House	5452'	5530'	gas
Menefee	5530'	י 5757	gas
Massive Point Lookout	5757'	6215'	gas
Mancos Shale	6215'	7130'	
Upper Gallup	7130'	7851'	gas
Greenhorn	7851'	7902 '	gas
Graneros	7902'	8013'	gas
Paguate	8013'	8018'	gas
Upper Cubero	8018'	8069'	gas
Lower Cubero	8069'	8140'	gas
Encinal	8140'	8140'	gas
Total Depth:	8140'		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:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120'~ 3665'	LSND	8.4 - 9.0	30 - 60	no control
3665' - 8140'	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' - 3665'	7"	20/23#	J-55
6 1/4"	0' - 8140'	4 1/2"	10.5#/11.6#	J-55

#### Tubing Program:

Depth Interval	<u>Csg.Size</u>	Wt.	<u> Grade</u>
0' - 8140'	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 327 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/31 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: 296 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate (820 cu ft - 50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Six bowspring centralizers spaced every other joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo @ 2390'. Once centralizers in the base of the surface casing.

# 4 1/2" Production Casing -

Pump 293 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 (581 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

## 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 Dakota / Mesaverde producing 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

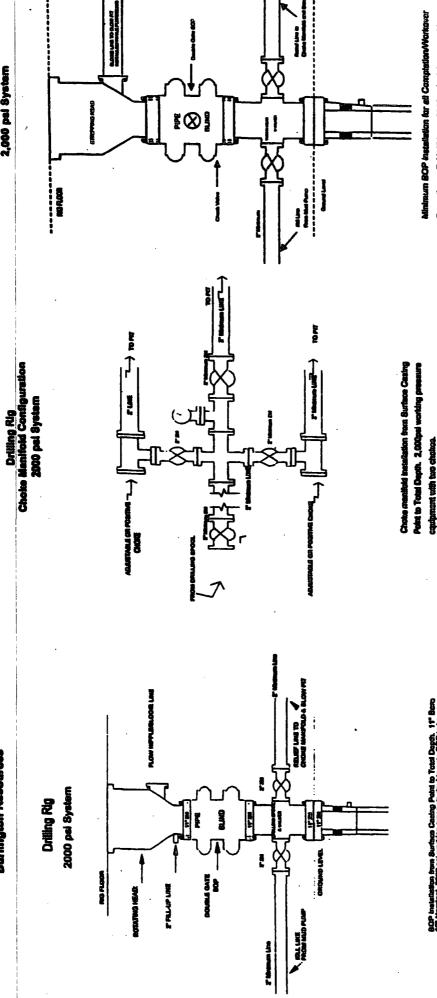
Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.

The West half of Section 15 is dedicated to the Dakota & Mesaverde formations.

This gas is dedicated.

Drilling Engineer Date

**Burlington Resources** 



Minimum BOP installation for et ComptetionWorkover Operations. 7-1/16\* bore, 2000 pei minimum working preseure double gate BOP to be equipped with blind and pipe rams. A strupting head to be installed on the top of the BOP. At BOP equipment is 2000 pai working pressure or greater excluding 500 pol artipping head.

Figure #3.

Figure #3

4-20-01

Figure #1

4-20-01