UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO	DRILL, DEEPEN, OR PLUG BACK
1a.	Type of Work DRILL RECEIVED 070 FARMENCE	
1b.	Type of Well GAS	6. If Indian, All. or Tribe
 2.	Operator BURLINGTON RESCURCES Oil & Gas Company	7. Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	Shiotani Federal 9. Well Number
	(505) 326-9700	#500S
4.	Location of Well Unit O (SWSE) 1070' FSL & 1555' FEI	10. Field, Pool, Wildcat Basin FC / Blance Folk
	Latitude 36° 44.2202'N Longitude 108° 07.0504'W	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 8, T29N, R12W API# 30-045- 3323/
14.	Distance in Miles from Nearest Town 3.2 miles	12. County 13. State San Juan NM
15.	Distance from Proposed Location to Nearest Pro	perty or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well FC - 322.86 E/2; PC - 162.86 SE/4
18.	Distance from Proposed Location to Nearest We	II, Drlg, Compl, or Applied for on this Lease
19.	52' Hudson #1E Proposed Depth 1872'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 5664′ GL	22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: falsy Cluster Special:	
PERM	MIT NO.	APPROVAL DATE 8/12/05
APPF	ROVED BY Robins TITLE	Heting AFM DATE 8/12/05

Archaeological Report attached

Threatened and Endangered Species Report attached 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.

This well is NOT in the HPA area.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised June 10, 2003

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe. NM 87505

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

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

☐ AMENDED REPORT

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

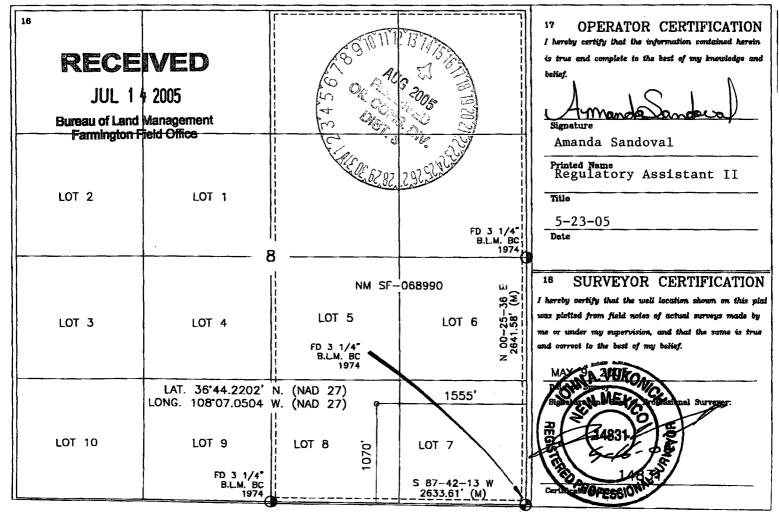
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-	71629/ 72359	Pool Name Basin Fruitland Coal/ Bl:	Fulcher Kut Z	
Property Code	⁸ Property Name			
13840	SHIOTAI	500\$		
OGRID No.	^в Орет	ator Name	⁸ Elevation	
14538	BURLINGTON RESOURCE	S OIL & GAS COMPANY LP	5664'	
14538	10	<u> </u>		

¹⁰ Surface Location

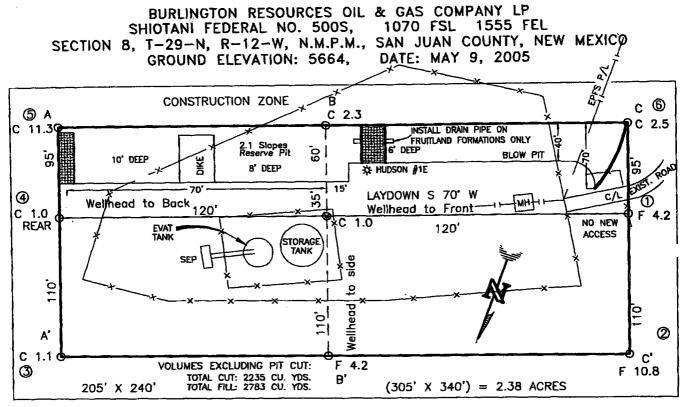
UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Leer ILour rue	East/sest une	County
O	8	29-N	12-W	8	1070	SOUTH	1555	EAST	SAN JUAN
			11 Botte	om Hole	Location I	f Different Fro	m Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹⁸ Dedicated Acre	s 162.8	 36 SE PC	18 Joint or	Infill	¹⁴ Consolidation C	Code	18 Order No.		
322.86 E2	FC					!			

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

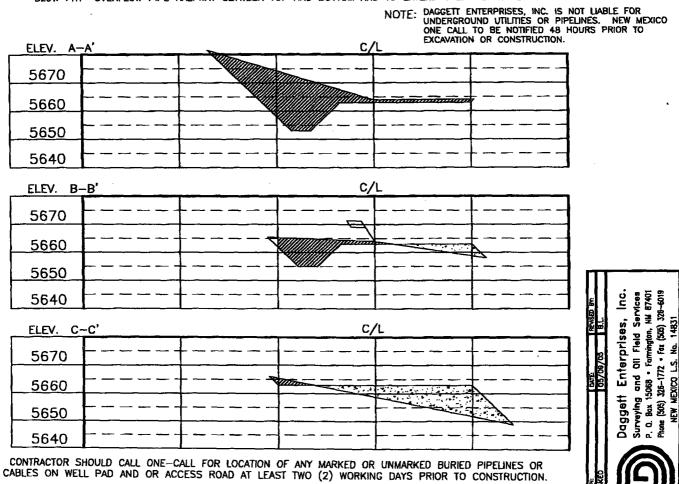


Submit 3 Copies To Appropriate District Office	State of New Mexico	J	Form C-103
District I	Energy, Minerals and Natural Resources	WELL API NO.	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease STATE FEE	
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr. Santa Fe, NM 87505	6. State Oil & Gas Lease No.	
District IV	·		
1220 S. St. Francis Dr., Santa Fe, NM 8750	DES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name	
	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	, seaso ramo or com regionalism ramo	
Type of Well: Oil Well	Other	8. Well Number Shiotani Federal #500S	
2. Name of Operator	ALIDOES ON R. CAS COMPANY I D	9. OGRID Number	
3. Address of Operator	URCES OIL & GAS COMPANY LP	10. Pool name or Wildcat	
3401 E. 30TH STR 4. Well Location	EET, FARMINGTON, NM 87402	Basin Fruitland Coal	
	1070 feet from the South line and Township 29N Range 12N		line In Juan
	Elevation (Show whether DR, RKB, RT, GR, etc.)		
Pit or Below-grade Tank Application	or Closure 5663' GL		
Pit type New Drill Depth to Groundw	ater <100 Distance from nearest fresh water well	>1000' Distance from nearest surface water	er >1000'
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume	bbls; Construction Material	
12. Check A	Appropriate Box to Indicate Nature of No	otice, Report or Other Data	
NOTICE OF IN	ITENTION TO:	SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	——————————————————————————————————————	AL WORK ALTERING NCE DRILLING OPNS. P AND A	CASING
PULL OR ALTER CASING	F-3 I	NCE DRILLING OPNS. P AND A CEMENT JOB	
OTHER: New D	orill Pit X OTHER:		
	ed operations. (Clearly state all pertinent details, and	give pertinent dates, including estimated da	L_ te
of starting any proposed work)	. SEE RULE 1103. For Multiple Completions: Atta		
or recompletion.			
New Drill, Lined:			
Burlington Resources proposes to co	nstruct a new drilling pit and an associated vent/flare	nit Based on Burlington's interpretation o	f the
	e new drilling pit will be a lined pit as detailed in Bur		
_	per 11, 2004 on file at the NMOCD office. A portion		_
	isk ranking criteria. Burlington Resources anticipate 2, 2004 on file at the NMOCD office.	es closing these pits according to the Drilling	g / Workover
The closure Trocedure dured Traguer	2, 2001 on the at the twilder office.		
	ove is true and complete to the best of my knowledge		
grade tank has been/will be constructed or clos	ed according to NMOCD guidelines, a general permit	X] or an (attached) alternative OCD-approved plan	· [].
SIGNATURE Tatsy (lught title sr. F	Regulatory Specialist DATE	6/14/2005
	Cluston E-mail address: <u>pclugstor</u>	m@br-inc.com Telephone No. 505-	-326-9518
For State Use Only	OFPITY ON A	gas inspector, dist. & A	11C 1 K 200E
APPPROVED BY	TITLE	DATE	NUG 1 5 2005
Conditions of Approval (if any):			
ℓ			

The state of the s



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE). BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.



NOTE:

OPERATIONS PLAN

Well Name:

Shiotani Federal #500S

Location:

Unit O (SWSE/4) 1070' FSL & 1555' FEL, Section 8, T29N, R12W

San Juan County, New Mexico

Latitude 36° 44.2202'N; Longitude 108° 07.0504'W

Formation:

Basin Fruitland Coal

Elevation:

5664' GR

Formation:	Тор	Bottom	Contents
Surface	San Jose		
Ojo Alamo	258'		
Kirtland	390'	1448'	gas
T/Fruitland	1448'		gas
B/Fruitland Coal	1670'		gas
Pictured Cliffs	1672'		
Total Depth	1872'		

Note: The Total Depth for this well is into the Pictured Cliffs interval, but currently only have plans to complete the Fruitland Coal interval. We could in the near future perforate/stimulate the Pictured Cliffs interval, but only would once Regulatory approval was asked for and received.

Logging Program: None

Mud Program:

Interval 0-120 41el	Type	<u>Weight</u>	Vis. Fluid Loss
0-120 Hel	Spud /Air/Air Mist	8.4-8.9	40-50 no control
120-1872'	Non-dispersed	8.4-9.5	30-60 no control

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
8 3 "	0 - 120' 41el	7"	20.0#	J-55
6 1 "	0 - 1872'	4 1/2"	10.5#	J/K-55

Tubing Program:

0 - 1872' 2 3/8" 4.7# J-55

Float Equipment: 7" surface casing - guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe and float collar on bottom. Centralizers run every third joint above shoe to the base of the Ojo Alamo @ 390'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 390'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: $7" \times 4 \frac{1}{2}" \times 2 \frac{3}{8}" \times 11"$ 2000 psi xmas tree assembly.

Page 2 Shiotani Federal #500S

Cementing:

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

7" surface casing - Cement with 42 sx Type III cement with 0.25 pps Celloflake, 3% CaCl. (54 cu ft of slurry @ 1.28 yield). 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. WOC until cement establishes 250 psi compressive strength prior to NU of BOPE.

4 1/2" production casing - Cement with 77 sx (164 cu ft of slurry @ 2.13 yield) Premium Lite with 3% calcium chloride, 5 pps LCM-1, and 1/4#/sack celloflake, 0.4% FL-52, & 0.4% SMS. Tail with 90 sacks (124 cu ft of slurry @ 1.38 yield) Type III cmt with 1% calcium chloride, 1/4#/sack Celloflake and 0.2% FL-52. Total of 288 cf - 50% excess to circulate to surface.

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 $\frac{1}{2}$ 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 1500 psi/30 min.

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

Pipe rams will be actuated at 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 Fruitland Coal formation will be completed.
- Anticipated pore pressure for the Fruitland is between 600 700 psi.
- * This gas is dedicated.
- * The east half of the section is dedicated to Fruitland Coal and SE/4 is dedicated to Pictured Cliffs for this well.
- * New casing will be utilized.
- Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



BURLINGTON RESOURCES

BURLINGTON RESOURCES

Completion/Norkover Rig BOP Configuration 2,000 psi System

Dritting Rig Choke Manifold Configuration

Burlington Resources

2000 psi System Origina Ria

FFELL UP LING

2000 psi System

Choice menitols installation from Surface Centra Point to Total Depth. 2,000ps! worlding preseura

Figure #3

C. HARRADEN/ July 18, 2005 🛱 🖰

BURLINGTON RESOURCES/ Shiotani Federal #500S APD

STIPULATION/CONDITION OF APPROVAL

aquifer. In order to protect the integrity of the Ojo Alamo fresh water aquifer, a minimum surface csg. depth of 461' is stipulated This well is located in a growing area where home development is occurring and water wells are being drilled into the Ojo Alamo as a condition of approval for this APD,

- Surface casing cumust yourur must be adjusted to ensure circulation to purface.

MO-POR

pressure double gate BOP to be equipped with bilind and ripe rame. A stripping head to be installed on the top of rreseure or greater excluding 500 pel stripping head. Operations. 7-1/16" bore, 2000 pei minimum workin he BOP. All BOP equipment is 2000 pal working Minimum BOP installation for eli Completion/V

Figure #2