UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR P	ERMIT TO	DRILL, DEEPE	N, OR PLUG BACK
1a.	Type of Work DRILL	013AA 0144	-3 611 10: 59	5. Lease Number Jicarilla Contract 150 Unit Reporting Number
1b.	Type of Well GAS —	345	MAR 2001	If Indian, All. or Tribe Jicarilla Apache
2.	Operator BURLINGTON RESOURCES Oil & Ga	s Control	ON COOK DW	Unit Agreement Name
3.	Address & Phone No. of Operator PO Box 4289, Farmington, (505) 326-9700	NM 8749	\$\@ <u>@@</u>	8. Farm or Lease Name Jicarilla 150 9. Well Number 5B
4.	Location of Well 1225' FNL, 1120' FWL Latitude 36° 30.3, Longitude	de 107º	18.9	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) D Sec. 12, T-26-N, R-5-W API # 30-039- 2670/
14.	Distance in Miles from Nearest Town 89 miles to Blanco	i		12. County 13. State Rio Arriba NM
15.	Distance from Proposed Location to 1120'	Nearest P	roperty or Lease	Line
16.	Acres in Lease			17. Acres Assigned to Well 320 W/2
18.	Distance from Proposed Location to 984'	Nearest W	/ell, Drlg, Compl,	or Applied for on this Lease
19.	Proposed Depth			20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 7194' GR			22. Approx. Date Work will Start
23.	Proposed Casing and Cementing Proposed Casing and Cementing Proposed See Operations Plan atta			
24.	Authorized by: Pagulatory/Con	<i>ale</i> npliance	: Supervisor	/2·21-00 Date
	NIT NO. ROVED BY S. W. anderson	 _ TITI	APPROVAL E SAIT Field	

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.

DISTRICT 1 P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 instructions on back

☐ AMENDED REPORT

Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

Certificate Number

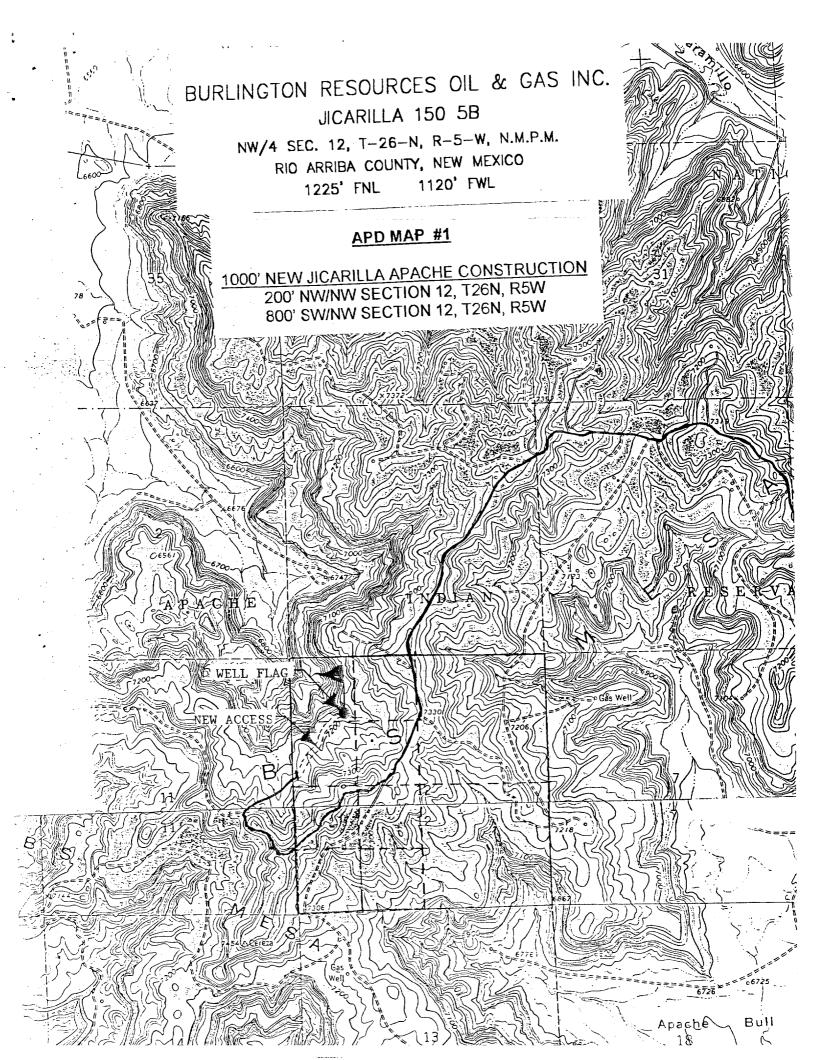
DISTRICT II P.O. Drower DD, Arlesia, N.M. 88211-0719

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

FD STONE PILE

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

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	lumber 26	701		Pool Code		n1	Manazzand		,			
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OPERATIONS PLAN

Well Name: Jicarilla 150 #5B

Location: 1225'FNL, 1120'FWL, Section 12, T-26-N, R-5-W

Rio Arriba County, New Mexico

Latitude 36° 30.3, Longitude 107° 18.9

Formation: Blanco Mesa Verde

Elevation: 7194'GL

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	3286′	to Nacimento 1780' nocosto be
Ojo Alamo	3286'	3496' 3571'	aguifer isolotal comment to
Kirtland Fruitland	3496 ' 3571 '	3876 '	gas gas
Pictured Cliffs	3876 '	3941'	qas
Lewis	3941'	4341'	gas
Intermediate TD	4191'		
Huerfanito Bentonite	4341'	4801'	gas
Chacra	4801'	5511 '	gas
Massive Cliff House	5511 ′	5641 '	gas
Menefee	5641'	6026 '	gas
Point Lookout	6026'		gas
Total Depth	6426 -		

Logging Program:

Mud Logs/Coring/DST -

Mud logs - none Coring - none

DST - none

Cased hole - Gamma Ray, Cement bond - surface to TD

Mud Program:

Interval- MD	Туре	Weight	<u>Vis.</u>	Fluid Loss
0- 200'	Spud	8.4-9.0	40-50	no control
200- 4191'	LSND	8.4-9.0	30-60	no control
4191- 6426'	Air/Mist/N2*	n/a	n/a	n/a

Pit levels will be visually monitored to detect gain or loss of fluid control.

*Nitrogen might be used in conjunction with or instead of air to prevent a down hole fire.

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

	Measured			
Hole Size	Depth	Csg Size	Weight	Grade
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 4191'	7"	20.0#	J-55
6 1/4" 40	091' - 6426'-	4 1/2"	10.5#	J-55

Tubing Program: 0' -6426' 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 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
- 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 - cement with 159 sx Class "H" 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/444 sx 50/50 Class "G"/Trinity Light w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx—and 0.5# metasilicate, 2% calcium chloride, 10# gilsonite/sx and 0.5# flocele/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 5# gilsonite/sx, 0.1% antifoam and 0.25# flocele/sx (1261 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 to determine TOC. casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 3471'. First stage: cement with 169 sx Class "G" 50/50 poz w/2% gel, 5 pps Gilsonite, 2% calcium chloride, 0.25 pps Flocele, 0.1% antifoam. Second stage: 405 sx Class "G"/Trinity Light with 2.5% sodium metasilicate, 2% calcium chloride, 1/2 pps Flocele, 10 pps Gilsonite (1261 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 3496'. Two turbolating centralizers at the base of the Ojo Alamo at 3496'. 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 circulate liner top. Pump 233 sx 50/50 Class "G" Poz w/1/4# flocele/sx, 4.5% gel, 0.1% retardant, 5# gilsonite/sx, 0.25% fluid loss additive (336 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

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

2000 psi System Drilling Rig

Ä. NO PLOOR DOUBLE CATE · SHIT ANTING S . . RETATING HEAD:

Charle Webs

Figure #1

BURLINGTON RESOURCES

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Drilling Rig Choke Manifold Configuration 2000 psi System

Completion/Workover Rig BOP Configuration 2,000 psi System F 🚫 🖁

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ADJUSTABLE OR POSITIVE CHOICE

Choke manifold installation from Surface Casing Point to Total Depth. 2,000pel working pressure equipment with two chokes.

Figure #3

Figure #2

pressure double gate BOP to be equipped with blind and pipe rame. A stripping head to be installed on the top of the BOP. All equipment is 2000 pet working pressure or

Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 2000 pel minimum working