Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0136 Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER						Lease Serial Jic Cont		
1a. Type of Work X DRILL REENTER						lf Indian, All		ribe Name
11 m exy #						<u>Jicarill</u>		
lb. Type of Well [Oil Well X Gas Well	Other X] Single Zone	Multiple Zon	e 7.1	Unit or CA A	Agreeme	nt Name and No.
2. Name of Operator		11 - 029			8. 1	Lease Name	and Wel	
Energen Resource	<u>es Corporation</u>	16292	()	e No. (include area co	4.5	<u>Jicarill</u>	a 98 3	3B
3a. Address 2198 Bloomfield	Highway, Farmington,	NM 87401	ı	e No. (include area co (505) <u>325</u> 6800	9. <i>i</i>	API Well No	29,	26915
4. Location of Well (Re	eport location clearly and in acco	rdance with any State			^_ 10 1	Field and Po		
At surface 1000	' FSL. 2350' FWL		F.	? •		Blanco M		
1900	13L, 2330 THE				11.	Sec., T., R.,	M., or E	3lk. and Survey or Are
At proposed prod. zon				FE.3 2002				, R3W, N.M.P.M
14. Distance in miles and	direction from nearest town or po					County or Pa		13. State
 	13 miles northw	est of Lindrit	F	1		<u>o Arriba</u>		NM
Distance from propo	sed*		16.No. of Ac	res in lease	17. Spacin	ng Unit dedic	ated to t	his well
location to nearest property or lease line	e, ft. 1980	ı	N					
(Also to nearest drg.			,	2560		320	S/2	
18. Distance from propo			19. Proposed	Depth	20.BLM/	BIA Bond	No. on fi	le
to nearest well, drilli								
applied for, on this le	ease, π. 1700'		6	6451',				
21.Elevations (Show who	1. Elevations (Show whether DF, KDB, RT, GL, etc.		22. Approximate date work will start*		rt*	23. Estimated duration		
7188' GL .			Mar 2002			10 Days		
 Well plat certified by A Drilling Plan A Surface Use Plan 	d in accordance with the requirent y a registered surveyor. (if the location is on National Forwith the appropriate Forest Servi	rest System Lands, the	4. Bo Item 20 5. Op 6. Su	No. 1, shall be attached and to cover the operator above). Determine the street of th	ions unless	covered by		
25.61		15.		т »			Date	
25. Signuature			Name (Printed/Typed)			Dun		1 (0 (00
Now Dr	ahun		Don Graham					1/8/02
Title								
Production S	uperintendent							
Approved by (Signautre)		N	Name (Printed/Typed)				Date	N 2 9 2002
5/84) (Indonsin)						J/	4N 5 8 1001	
Title Osst	Lild Mgr		Office				 	
Application approval de conduct operations there Conditions of approval,		e applicant holds lega	l or equitable	title to those rights in	the subject	t lease which	h would	entitle the applicant t
Title 18 U.S.C. Section States any false, fictitiou	1001 and Title 43 U.S.C. Section is or fraudulent statements or rep	1212, make it a crim resentations as to any	e for any perso matter within i	n knowlingly and willits jurisdiction.	ùlly to mak	ce to any dep	artment	or agency of the Unite
*(Instructions on Revers	se)							. 3

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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

PO Box 2088, Santa Fe, NM 87504-2088

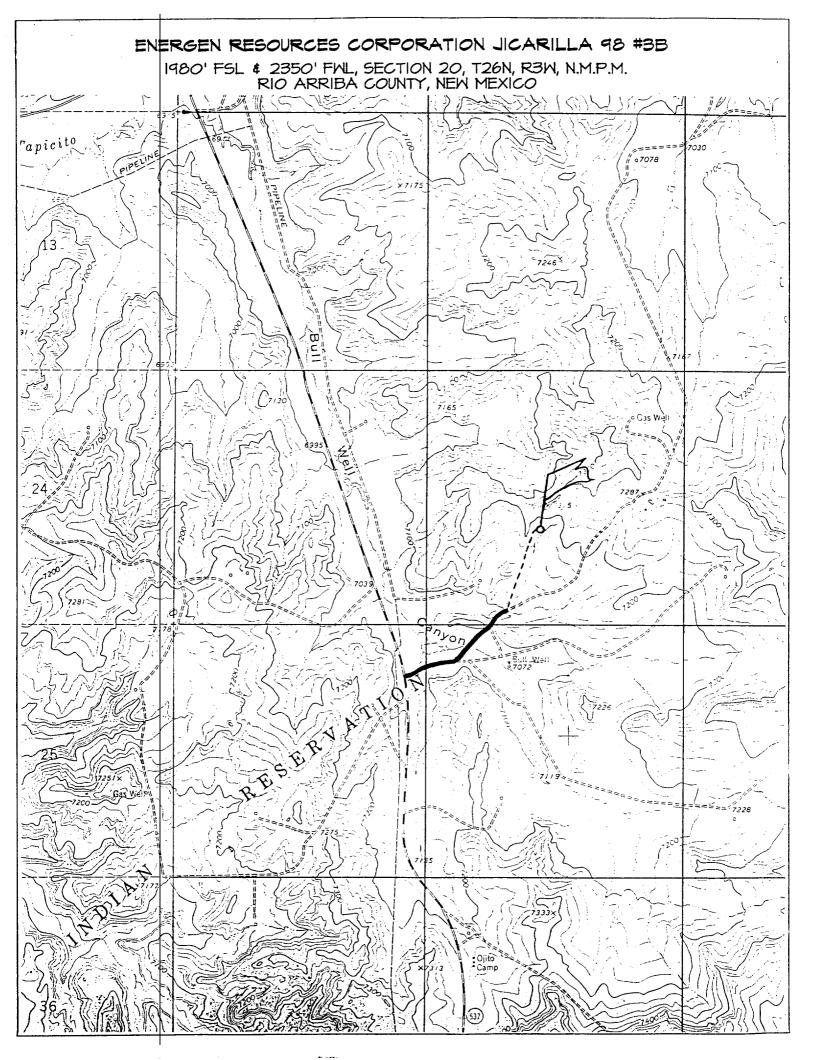
State of New Mexico Energy, Minerals & Natural Resources Depo. Lment

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back mit to Appropriate District Office

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 'Pool Name 'API Number *Pool Code 30-039-Z 72319 Blanco Mesaverde Property Code Property Name Well Number JICARILLA 98 3B OGRID No *Operator Name *Elevation 162928 ENERGEN RESOURCES CORPORATION 7188 ¹⁰ Surface Location UL or lot no Section Township Rance Lot Idn Feet from the North/South line Feet from the East/West line County RIO 20 2350 К 26N ЗW 1980 SOUTH WEST ARRIBA ¹¹Bottom Hole Location If From Surface Different UL or lot no. Section Feet from the North/South line Feet from the East/West line County Dedicated Acres 13 Joint or Infill 14 Consolidation Code [™] Order No. 320 Acres - (S/2) 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 5280.00 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Don Graham Printed Name Production Superintendant 5008 Title 1-8-01 Date 18 SURVEYOR CERTIFICATION 00 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. Θ Survey Date: SEPTEMBER 24, 2001 2350 Signature and Seal of Professional Surveyor SE CH MEXICO MEXICO ZEW 15269 1480. A OFESSIONAL 5280.00: Certificate Number 15269



OPERATIONS PLAN

WELL NAME: Jicarilla 98 #3B

LOCATION: 1980' FSL, 2350' FWL, Section 20, T26N, R3W, Rio Arriba, New Mexico

FIELD: Blanco Mesaverde

ELEVATION: 7188' GL

FORMATION TOPS:

Surface	San Jose	Huerfanito Benonite	4323
Nacimiento	2279	Cliff House	5555
Ojo Alamo	3211	Menefee	5642
Kirtland	3591	Point Lookout	6001
Fruitland	3699		
Pictured Clif	fs 3859		
Lewis	3972	Total Depth	6451

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None

Inter TD to total depth: Temp/HRI/CNT, LDT/GR

Mud Logs:

3600' to total depth

Coring:

None

Natural Gauges:

Every 500' from intermediate TD to total depth

MUD PROGRAM: Fresh water low solids mud from surface to intermediate TD. Air/mist from intermediate casing point to total depth.

CASING PROGRAM:

HOLE SIZE	DEPTH	CSG SIZE	$\underline{\mathrm{WT.}}$	<u>GRADE</u>
12-1/4"	200'	9-5/8"	32.3#	H-40
8-3/4"	4022'	7"	20#	J-55
6-1/4"	4022'-6451	4-1/2"	10.5#	J-55

TUBING PROGRAM:

6300'

2 3/8"

4.7#

J-55

WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 7 1/16" 3000 xmas tree.

BOP SPECIFICATIONS:

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used.

CEMENTING:

9 5/8 surface casing - Cement with 110 sks Class B Cement with 1/4" Flocele/sx and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom with centralizers on the first three joints...

7" intermediate casing - cement with 405 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and 1/4# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and 1/4# flocele/sk. (907 cu. Ft. of slurry, 50% excess to circulate to surface). WOC 12 hrs. If cement does not circulate, run temperature survey in 8 hrs. to determine TOC. Test casing to 1200 psi for 30 minutes.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 8 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

4 1/2 Production Liner

Cement with 300 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (374 cu. ft., 50% excess to circulate liner top). WOC 18 hrs prior to completion.

Cement nose guide shoe on bottom with float collar on top of shoe joint. Liner hanger will have a neopreme packoff on top.

OTHER INFORMATION:

- 1) The Blando Mesaverde completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Mesa Verde is 800, Pictured Cliffs is 600 and the Fruitland 500 psi.
- 4) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 5) This gas is dedicated.