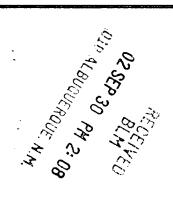
Form 3160-3 (August 1999)						FORM APPROVED OMB NO. 1004-0136 Expires: November 30, 2000		
•	APPLICATION FOR PERMIT TO DRI	LL OR I	REENTER		Lease Serial No.	Control 117		
					J1Car111a If Indian, Allotee	Contract 117		
la. Type of Work	☐ DRILL ☐ REEN	ITER		0.	•			
1b. Type of Well	Oil Well Gas Well Other	X s	ingle Zone Multiple Zone	7.	Jicarilla A Unit or CA Agree	ment Name and No		
2. Name of Operato	or			8.	Lease Name and	Well No.		
Energen Resou	urces Corporation				Jicarilla 1	17E 2B		
3a. Address 2198 Bloomfi	eld Highway, Farmington, NM 87401		3b. Phone No. (include area coo 505-325-6800	ie) 9.	APLWell No. 3	9-27414		
	Report location clearly and in accordance with any 770' FNL, 1620' FEL	irements)*		10. Field and Pool, or Exploratory Blanco Mesaverde 11. Sec., T., R., M., or Blk. and Survey or Area				
At proposed prod	7000			10		•		
				<u></u>	Sec.33, T26	N, RO3W - N.M.P.M.		
14. Distance in miles	and direction from nearest town or post office*			12.	County or Parish	13.State		
	9 miles northwest of Lind	<u>ritḥ, l</u>	New Mexico		<u>o Arriba</u>	NM		
15. Distance from pr location to neare	est	16.	No. of Acres in lease	17. Spacin	ng Unit dedicated	to this well		
property or lease (Also to nearest	e line, ft. 770 'drg. unit line, if any)		2560	E 1/2				
18. Distance from pr		19.	19. Proposed Depth 20.1		BLM/BIA Bond No. on file			
to nearest well, of	drilling, completed,							
applied for, on a	1100'		6691'					
21. Elevations (Show	whether DF, KDB, RT, GL, etc.	22	. Approximate date work will star	t*	23. Estimated di	ıration		
7489 GL		- 1	April 2003		10 days			
		24. At	tachments		· · · · · · · · · · · · · · · · · · ·	To days		
The following, comp	leted in accordance with the requirements of Onshore			to this for	rm;			
<ol> <li>A Drilling Plan</li> <li>A Surface Use P</li> </ol>	ed by a registered surveyor.  Plan (if the location is on National Forest System Landilled with the appropriate Forest Service Office).	s, the	4. Bond to cover the operation lem 20 above). 5. Operator certification. 6. Such other site specific integration authorized officer.			· · · · · · · · · · · · · · · · · · ·		
25. Signuature	_	Name	(Printed/Typed)		Date			
Vicki	Vicki Bracker		Vicki Donaghey			09/27/02		
Title Production	$igcup_{eta}$ Assistant							
Approved by (Signautre)/s/ Steven W. Anderson			Name (Printed/Typed)		Dat	Date MAR 2 1 2003		
Title	Assistant Field Manager	Office						
conduct operations the	I does not warrant or certify that the applicant holds hereon. val, if any, are attached.	legal or	equitable title to those rights in t	the subject	lease which wou	ld entitle the applicant to		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on Reverse)





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

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

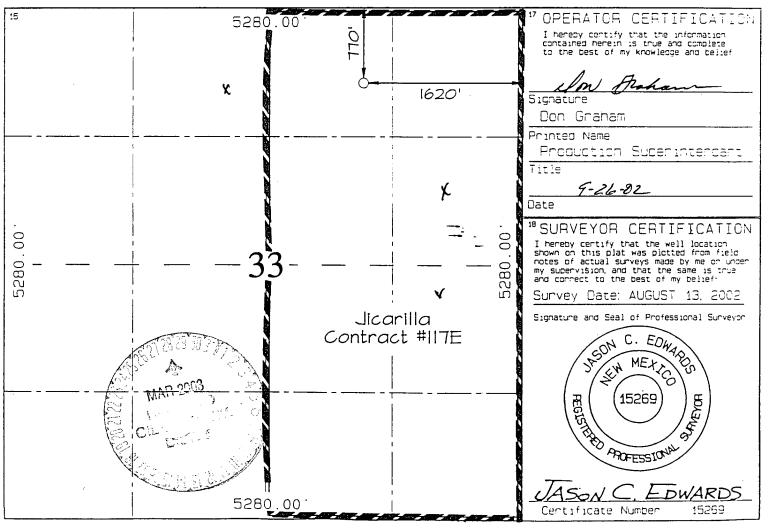
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number				*Pool Cod	e	, Loo1 V			ue		
30-03	3 <i>9-</i> Z	7414	!	72319		BLANCO MESAVERDE					
Property Code				Property Name			"Well Numper				
2194	3		JICARILLA 117E					2B			
'OGRID	٧o.				*Operator	Operator Name					
16292	28		8	ENERGEN RESOURCES CORPORATION 74					7489		
					<sup>10</sup> Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Hes	t line	County	
В	33	26N	ЗМ	·	770	NORTH	1620	EAS	ST.	RIO ARRIBA	
		11 B	ottom	Hole L	ocation I	f Different	From Surf	ace			
UL or lot no.	Section .	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/wes	t line	County	
12 Dedicated Acres					13 Joint or Infill	14 Consolidation Code	S Onder No.	<u> </u>			
Dedicated Acres		).O Acres	s - (E	/2)	Jame of Intil	i i	0.35				
NO N. O.			CCTCVE	D 70 TU		551 1 (51 T T)		====		551 -50 - 7-50	

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



### **OPERATIONS PLAN**

WELL NAME: Jicarilla 117E #2B

<u>LOCATION:</u> 770' FNL, 1620' FEL, Section 33, T26N, R3W, Rio Arriba, New Mexico FIELD: Blanco Mesaverde ELEVATION: 7489' GL

# **FORMATION TOPS:**

Surface	San Jose	Huerfanito Benonite	4536
Nacimiento	2631	Cliff House	5766
Ojo Alamo	3771	Menefee	5871
Kirtland	3831	Point Lookout	6241
Fruitland	3901	Mancos Shale	6531
Pictured Cliffs	4051		
Lewis	4226	Total Depth	6691

# **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

<u>MUD PROGRAM</u>: Fresh water low solids mud from surface to intermediate TD (9.0 - 9.2 PPG). Air/mist from intermediate casing point to total depth.

### **CASING PROGRAM:**

<b>HOLE SIZE</b>	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	GRADE
12-1/4"	200'	9-5/8"	36#	J-55
8-3/4"	4426'	7" <u>-</u>	20 & 23#	J-55
6-1/4"	4276'-6691'	4-1/2"	10.5#	J-55

# **TUBING PROGRAM:**

6600' 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 sxs 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 455 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. (998 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 295 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk ( 372 cu. Ft., 50% excess to intermediate casing). 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 Blanco 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.