Form 3160-3 (July 1992)

# UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1999

-	February	
5. LEASE DESIGNAT	ION AND S	ERIAL NO.

							Jicarilla Contract 152	
	BUREAU OF I	6. IF INDIAN, ALLOTTEE OR TRIBE NAME						
APPL	ICATION FOR P	ERMIT TO	O DR	ILL OR	DEEPE		Jicarilla Apac	
le. TYPE OF WORK			7. UNIT AGREEMENT NAM	E				
DR		DEEPEN						2102-0
b. TYPE OF WELL					MATERIAL TOPIC		8. FARM OR LEASE NAME	<u> </u>
OIL U	GAS X OTHER			ZONE	MULTIPL ZONE		Jicarilla West	
2. NAME OF OPERATOR					سعوق	1		
ENERGEN RESOURCES	CORPORATION						9. API WELL NO.	7/9/
3. ADDRESS AND TELEPHONE		07404			al fire	31	30-039-0	26 306
	lighway, Farmington,			<del></del>	·	-3	10. FIELD AND POOL, OR V	
4. LOCATION OF WELL (Repo	ort location clearly and in accorda	nce with any State r	equiremen	its.*)		-3	Blanco MV/Basi	ח טג
790' FNL, 1850' F	wi .			<b>,</b>	V.	3	11. SEC., T., R., M., OR BL	<u> </u>
At proposed prod. zone	***		:	€-23 -	7 T 3		AND SURVEY OR AREA	ь.
				1	المارين	2	Sec. 6, T26N,	<u>R5W, N.M.P.M.</u>
	DIRECTION FROM NEAREST TOW:			The state of the s	ۍ.		12. COUNTY OR PARISH	13. STATE
	st of Lindrith, New	Mexico	·	(S.E.)	والمحادث		Rio Arriba	NM
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST	ED•		16. NO. 0	OF ACRES IN LA	المراد والمالية	17. NO. OF A	CRES ASSIGNED	<del>'220-</del> / .
PROPERTY OR LEASE LIN (Also to nearest drls, unit			255	7.76'	1:319.12			7.12 -1719.12
18. DISTANCE FROM PROPOS	ED LOCATION*		19. PROPOSED DEPTH 20. ROTAR			20. ROTARY	OR CABLE TOOLS	
TO NEAREST WELL, DRIL OR APPLIED FOR, ON THE			762	4'		Rota	`у	
21. ELEVATIONS (Show when						•	22. APPROX. DATE WOR	K WILL START*
6577' GL								<del></del>
23.	P	ROPOSED CASING	G AND CE	EMENTING PRO	OGRAM			
SIZE OF HOLE	GRADE_SIZE OF CASING	WEIGHT PER FOO	nr .	SETTING	DEPTH		QUANTITY OF CEN	MENT
12 1/4	9 5/8	36 <b>#</b>		20	0	130 cu	. ft. to circ.	
8 3/4 7 20 & 2			#	355	59	1070 c	070 cu. ft. to circ.	
6 1/4	4 1/2	10.5#		762	24	630 cu	. ft. to circ. t	o intermediate
	'		'		•			

An application with NMOCD is being submitted to downhole commingle. Selectively perforate and sand water fracture the Mesaverde and Dakota. This gas is dedicated.

NOTE: THIS IS A PIPELINE R.O.W. EXPEDITED APD.

to deepen, give data on present productive zone and proposed ed and true vertical depths. Give blowout preventer program, i	new productive zone. If proposal is to dri if any.
TITLE Production Superintendent	DATE 10/27 98
APPROVAL DATE	
itable title to those rights in the subject lease which would entitle the applicated.	unt to conduct operations thereon.
ITTLE A FOR	DATE 01/07/00
Instructions On Reverse Side	
	Production Superintendent  TITLE Production Superintendent  APPROVAL DATE  inable title to those rights in the subject lease which would entitle the application of the subject lease which we applied the subject lease w

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 57504-2088

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

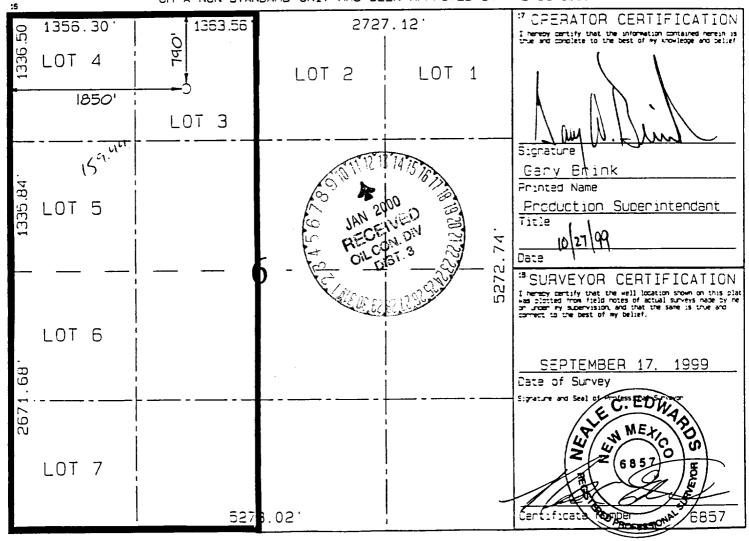
AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-26:30	72319-71599	Blanco Mesaverde-Basin Dakota	
Property Code	*p	reperty Name RILLA WEST	*Well Number
OSAID No. 162928		perator Name OURCES CORPORATION	*Elevation
	10 5 10 f	ace Location	

UL or lot no.	Section	Townsh:2	Range	Lot Ion	Sunface I	_OCATION North/South line	Feet from the	East/West line	County
С	6	26N	5W		790	NORTH	1550	WEST	RIO ARRIBA
	<u>,                                      </u>	11 =	ottom	Hole L	ocation If	Different	From Surf	ace	
Ut or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
2 Deducated Acres	719,12	S Joint or 5	fill 2 Core	splication Code	מא סרספר ש				

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 West #9M

LOCATION: 790' FNL, 1850' FWL, Section 6, T26N, R5W, Rio Arriba, New Mexico

FIELD: Blanco MV/Basin Dakota ELEVATION: 6577'

## **FORMATION TOPS:**

Surface	San Jose	Cliff House	4889
Ojo Alamo	2509	Menefee	4984
Kirtland	2739	Point Lookout	5399
Fruitland	3024	Gallup	6349
Pictured Cliff	s 3199	Greenhorn	7319
Lewis	3359	Graneros	7379
Huerfanito Be	enonite 3679	Dakota	7404
		Total Depth	7624

### **LOGGING PROGRAM**:

Open Hole Logs:

Surface to intermediate: HRI/SP/GR; CNT/LDT/MLT Inter TD to total depth: Temp/HRI/CNT, LDT/GR

Mud Logs:

200' above Ojo Alamo 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. Air/mist from intermediate casing point to total depth.

### **CASING PROGRAM:**

<b>HOLE SIZE</b>	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	36#	K-55
8 3/4"	3559'	7"	23#	K-55
6 1/4"	7624'	4 1/2"	11.6#	K-55

### **TUBING PROGRAM:**

7475' 2 3/8 4.7# J-55

<u>WELLHEAD:</u> 11" 3000 x 9 5/8" casing head. 11" 3000 x 11" 3000 spool. 11" 5000 x 7 1/16" 5000 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. 3 Canada lizares, 1 st 3 30 -45

7" intermediate casing – cement with 488 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. (1070 cu. ft. of slurry, 100% 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 130 sks 65/35 Class B Poz with 6% gel, 5 PPS gilsonite, and 1/4# flocele/sk. Tail with 300 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (630 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 Blanco Mesaverde and Basin Dakota will be completed and downhole commingled.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Mesa Verde is 1100 and the Dakota 1500 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.

