Form 3160-3 • (August 1999)

*(Instructions on Reverse)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRIL	LOR REENTER ECEIVED	Jicari	lla Contract 94
a. Type of Work X DRILL REEN	TER BLM		Allotee or Tribe Name
b. Type of Well Grow Well	02 SEP 22 . Bu		11a Apache A Agreement Name and No.
Oil Well Gas Well Other	Single Zone X Multiple You	127 I	A Agreement Name and No.
Name of Operator	OlD ALBUQUERQUE. N.	8. Lease Na	me and Well No.
Energen Resources Corporation	3b. Phone No. (include area coo	101	11a 94 <u>3</u> B
Address 2198 Bloomfield Highway Farmington, NM 87401	(505) 325 6800		No. 39-2748
Location of Well (Report location clearly and in accordance with any S			Pool, or Exploratory
At surface 660' FSL. 1980' FWL			Mesaverde
,	GO AUD 3	11. Sec., T.,	R., M., or Blk. and Survey or A
At proposed prod. zone	\$ 000 POO	₩Sec. 2	22, T27N, R03W, N.M.P
.Distance in miles and direction from nearest town or post office*		2.County o	
18 miles northwest of Linds	rith, New Mexico	Rio Arri	ba NM
Distance from proposed*	16.No. of Acres in lease	17 Spacing Unit de	edicated to this well
location to nearest property or lease line, ft. 660 '	1 1 1 1 1 1 1 1 1 1		
(Also to nearest drg. unit line, if any)	25607777	320Ac	W 1/2
Distance from proposed location*	19. Proposed Depth	20.BLM/BIA Box	nd No. on file
to nearest well, drilling, completed,			
applied for, on this lease, ft. 800'	6547'		
. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will star	t* 23.Esti	mated duration
7210' GL	September 2003		14 Days
	24. Attachments		
he following, completed in accordance with the requirements of Onshore C	Dil and Gas Order No. 1, shall be attached	to this form:	
. Well plat certified by a registered surveyor.	4 Bond to cover the operati	ons unless covered	by an existing bond on file (see
A Drilling Plan	Item 20 above).	ons unless covered	by an existing bond on the (see
A Surface Use Plan (if the location is on National Forest System Lands	• •		
SUPO shall be filed with the appropriate Forest Service Office).	Such other site specific in authorized officer.	formation and/or pla	ans as may be required by the
5. Signuature	Name (Printed/Typed)		Date
Vicke Donaghay	Vicki Donaghey		09/18/02
itle O			-
Production Assistant			
pproved by (Signautre)	Name (Printed/Typed)		Date 110 1 1 2002
Skrian A Sleyd			AUG 1 1 2003
itle	Office		
Ading Assistant Field Manager			
pplication approval does not warrant or certify that the applicant holds	legal or equitable title to those rights in	the subject lease wh	nich would entitle the applicant
onduct operations thereon.			
onditions of approval, if any, are attached.			
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c	rime for any person knowlingly and willfu	lly to make to any o	lepartment or agency of the Uni
ates any false, fictitious or fraudulent statements or representations as to a	any matter within its jurisdiction.	•	

District i PO Box 1980, Hopps, NM 88241-1980

State or New Mexico Energy, Manerals & Natural Resources Department Revised February 21, 1994 Instructions on back

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

District II PO Drawer DD, Artesia, NM 88211-0719 OIL CONSERVATION DIVISION PO Box 2088 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87504-2088

AMENDED REPORT

District IV PO Box 2088, Santa Fe, NM 87504-2088

Pool Name Pool	WELL LOCATION AND ACREAGE DEDICATION PLAT										
SUPPRINCE Section Se	30-0	S/-	2748	2		ľ				RDE	
162928 ENERGEN RESOURCES CORPORATION 10 Surface Location 10 Surface Location 11 Section Feet from the Section Feet from the Surface Interest Int	Property 2193	Code 7							,—,	⁶ ₩∈	
U. cr. Not no. Section formation from the North South live feet from the North South live feet from the North South Inc. Section formation for feet from the North South Live feet from the East-Nest live County. 11 Bottom Hole Location If Different From Surface 12 U. cr. Not no. Section formation for feet from the North South Live feet from the East-Nest live County. 13 Bottom Hole Location If Different From Surface 14 County feet from the East-Nest live County. 15 Bottom Hole Location If Different From Surface 16 North South Live feet from the East-Nest live County. 17 Cornellation Coor feet from the East-Nest live County. 18 South County feet from the East-Nest live County. 19 Deficient From Surface 19 County feet from the East-Nest live County. 19 Deficient From Surface 10 County feet from the East-Nest live County. 19 Deficient From Surface 10 County feet from the East-Nest live County. 19 Deficient From Surface 10 County feet from the East-Nest live County. 10 County feet from the East-Nest live East-Nest live County. 10 County feet from the East-Nest live East-Nest live County. 10 County feet from the East-Nest live East-Nest live County. 10 County feet from the East-Nest live East-Nest live County. 10 County feet from the East-Nest live East-Nest live County. 11 Larray certify that the veel location of the East-Nest live County feet from the East-Nest live County. 12 County feet from the South live feet from the East-Nest live County. 13 County feet from the East-Nest live East-Nest live County. 14 County feet from the South live feet from the East-Nest live County. 15 County feet from the South live feet from the East-Nest live County. 16 County feet from the East-Nest live East-Nest live County feet from the East-Nest live County					ENERGE			TION			
N 22 27N 3W 660 SOUTH 1980 WEST ARRIBA 11 Bottom Hole Location If Different From Surface U. or list fe. Section fowenis Rarge List for Feet from the North/South line Feet from the East/Nest live County 2 deducates Area 320.0 Acres - (W/2) NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED ON A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 15 5282.64 17 OPERATOR CERTIFICATION Interest in the Interest in Interest Interest in Interest						¹⁰ Sunface	Location				
11 Bottom Hole Location If Different From Surface U. or lot no. Section Township Range Lot for Feet from the Normalization Code Section Township Range Lot for Feet from the East/Nest line County Bodicated Acres 320.0 Acres - (W/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 15 5282.64 17 OPERATOR CERTIFICATION Interest of the production Superintendent Title Signature Don Graham Printed Name Production Superintendant Title 18 SURVEYOR CERTIFICATION Thereby certify that the well location shown on this plat was plotted from field once of each of the certify that the same by more or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and that the same by the or under my supervision and the first of the best of any obtain. C. E. D. A. D. S. C. E. D. S. C. E. D. S. C. E. D. S. C. E. D. S. C. E		}	'		Lot Idn						RIO
Designates Acres 320.0 Acres - (W/2) Substitute for Infall Consultation Code Somethia Somet		!	11 B	ottom	Hole L	ocation I	f Different	From S	Surface		T ATTITEDA
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 15 17 OPERATOR CERTIFICATION In the production is true and complete to the best of my knowledge and belief 18 Signature Don Graham Printed Name Production Superintendant Title 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from Isald Shown on the plat was plat	UL or lot no.	Section			Lat Ion	Feet from the					County
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 5282.64 17 OPERATOR CERTIFICATION I herepy 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 Title 58 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was political from field motes of actual surveys made by me or under and correct to the best of my belief ruse and correct to the best of my belief ruse and correct to the best of my belief. Oate of Survey: JUNE 19. 2002 Signature and Seal of Professional Surveyor C. EDWARD Signature and Seal of Professional Surveyor	12 Dedicated Acres	320	.O Acres	; – (W,	/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Onder No.			
5282.64 10 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the cest of my knowledge and belief Signature Don Graham Printed Name Production Superintendant Title 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from fishe notes of actual surveys made by me or under and correct to the best of my belief. Date of Survey: JUNE 19, 2002 Signature and Seal of Professional Surveyor Signature and Seal of Professional Surveyor	NO ALLOW	ABLE W	ILL BE A OR A	SSIGNEI NON-ST	TO TH	IS COMPLETION UNIT HAS BE	ON UNTIL ALL EEN APPROVED	INTERES BY THE	TS HAVE DIVISION	BEEN CON	NSOLIDATED
1980' JASON C. EDWARDS	5280.00	180'		52	22		TO SON TO	Sig Dati	hereby certification of the best of the be	am Superior R CERTI y that the we plat was plotted surveys made and that the the best of multiple surveys and consumptions of the best of the	FICATION Intendent FICATION Il location ed from field by me or under same is true y belief. E 19, 2002

OPERATIONS PLAN

MAR

WELL NAME: Jicarilla 94 #3B

LOCATION: 660' FSL, 1980' FWL, Section 22, T27N, R3W, Rio Arriba, New Mexico

FIELD: Blanco Mesaverde ELEVATION: 7210'

FORMATION TOPS:

Surface	San Jose	Huerfanito Benonite	4497
Nacimiento Fm	San Jose 2387 - November 1990	Cliff House	5727
Ojo Alamo	3447	Menefee	5802
Kirtland	3622	Point Lookout	6097
Fruitland	3727	Mancos Sh	6282
Pictured Cliffs	3957		
Lewis	4162	Total Depth	6547

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:

HOLE SIZE	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12-1/4"	200'	9-5/8"	36#	J-55
8-3/4"	4362'	7"	20 & 23#	J-55
6-1/4"	4212'-6547'	4-1/2"	10.5#	J-55

TUBING PROGRAM:

6500' 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. An upper Kelly Cock valve with handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

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 445 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. (984 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 290 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (363 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 and Gallup Dakota will be completed and downhole commingled.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Gallup is 900, Mesa Verde is 800, Pictured Cliffs is 500 and the Fruitland 400 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.