Page: 1 Document Name: untitled

CMD : ONGARD 11/10/03 15:51:49 OG5SECT OGOMES -TPNQ INQUIRE LAND BY SECTION PAGE NO: 1 Sec : 29 Twp : 32N Rng : 05W Section Type : NORMAL C D В Α 40.00 40.00 40.00 40.00 Federal owned Federal owned Federal owned Federal owned Α Е F Η G 40.00 40.00 40.00 40.00 Federal owned Federal owned Federal owned Federal owned Α PF01 HELP PF03 EXIT PF05 PF02 PF04 GoTo PF06

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PF08 FWD

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Sec : 29 Twp : 32N	Rng: 05W Section	Type : NORMAL	
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PF07 BKWD PF08 FW			PF12

Date: 11/10/2003 Time: 03:52:49 PM

UNITED STATES DEPARTMENT OF THE INTERIOR RUREAU OF LAND MANAGEMENT

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

# .	Е	UREAU OF LA	AND MANAGE	MENT.	-7 ⁵	ŀ	Expin	es: 140 v	ember 30, 2000
•	APPLICAT	ON FOR PER	MIT TO DRIL	L OR R	EENTER PECEIVI	ED:	5. Lease Serial N NM-4461	To.	
la. Type of Work	X	RILL	REEN	TER	203 JTH -3 AM	11:0	6. If Indian, Allo	tee or	Tribe Name
lb. Type of Well	Oil Well	X Gas Well	Other	X Sin	ngle Zone Multiple Zon	· · · ·		greeme	nt Name and No.
		M cas wen		<u>Μ</u> 311	igie Zone Windpie Zon	ة لمحد	1	Ţ	32567
2. Name of Operator						11, 14 1	Lease Name a	nd We	l No.
Energen Resour	rces Corpora	tion					Elk Horn	101	
a. Address					3b. Phone No. (include area co	de)	. API Well No.		
2198 Bloomfie	<u>ld Highway</u>	Farmington,	New Mexico	<u>87401</u>	0 (505) 325-6800		<u> 30 0</u>	39	27450
. Location of Well				State earli	rements)*	10	0. Field and Poo		
At surface 75	5 FNL, 2375	FEL - NW	NE	3	Allo	- h	Basin Fru		NG LOGI 31k. and Survey or At
At proposed prod.	70ne			14	2003		A		•
ra proposeu pro e.				1,3	On Charleson I	1	2Sec. 29,	T32N	, R05W, N.M.P
4. Distance in miles a	nd direction from	nearest town or p	ost office*	100	Dio Silv. 3	1:	2. County or Par	rish	13. State
		16 miles n	ortheast of	Goberr	nador State State	R	io Arriba		NM
. Distance from pro	pposed*				lo. of Acres in lease	17.Spac	ing Unit dedica	ted to t	his well
location to neares		775	•	1	(2)				
property or lease i (Also to nearest d	hne, ft. rg. unit line, if any	775 v)			326400 0		32	20/E2	
B. Distance from pro				19.1	Proposed Depth	20.BL	M/BIA Bond N	c. on fi	le
to nearest well, dr applied for, on thi				l					
applied for, on the	o lease, it	4500'		- [3625'				
. Elevations (Show v	whether DF, KDB	, RT, GL, etc.		22	Approximate date work will star	ri*	23. Estimate	d durat	ion
6815 GL	·				06/01/03			_	days
					achments				
the following, comple	eted m accordance	with the requirer	nents of Onshore (Jil and Ga	as Order No. 1, shall be attached	i to this t	orm:		
. Well plat certified	l by a registered s	urveyor.			4. Bond to cover the operat	ions unle:	ss covered by as	ı existir	ng bond on file (see
. A Drilling Plan	, ,	•			Item 20 above).				,
. A Surface Use Pl	•			, the	5. Operator certification.				
SUPO shall be file	ed with the approp	priate Forest Serv	ice Office).		6. Such other site specific in	uformation	n and/or plans a	s may b	e required by the
					authorized officer.				
5. Signuature				Name (Printed/Typed)		1	Date	
I low I	Traka	_		Don (Graham		1		5/30/03
itle									
Production	Superintend	ent							•
approved by (Signau				Name (Printed/Typed)			Dato	10 0 0 0000
	l Signed: Step	hen Mason		(Al	JG 0 8 2003
Title				Office	······································			_	
				1					
Application approval conduct operations the Conditions of approve	ereon.		e applicant holds	legal or e	quitable title to those rights in	the subje	ct lease which	would	entitle the applicant
ral terror c	1001 - 1005	10 Tt 0 C 5	1010						
Time 18 U.S.C. Section States any false, fictiti	on 1001 and Title ous or fraudulent	43 U.S.C. Section statements or repr	1212, make it a c resentations as to a	nime for a any matter	ny person knowlingly and willfi r within its jurisdiction.	ally to ma	ke to any depar	tment o	or agency of the Unit
(Instructions on Rev	erse)					11.		-	

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED *GENERAL REQUIREMENTS*.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

HOLD C184 FOR N SL

Oistrict 1 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

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

Certificate Number

1000 Rio Braz	os Ad., A	ztec. NM 87	7410	Sa	nta Fe, NN	1 87504-208	8				
District IV PO Box 2088,	Santa Fe.	NM 87504-	-2088							AMEND	ED REPORT
			WELL	LOCAT	ION AND A	CREAGE DED	ICAT	ION PL	.AT		
7	API Numbe	27/	2	*Pool Co	· ·		O.T	'Pool Nam			
30-03	59- 6	1145	<u>O</u>	7162			SIN	FRUITL <i>A</i>	AND CC		
Property 35	Lode				Propert ELK	•				"We	ell Number 101
OGRID I	φ 1	.,								 	
16292			*Operator Name *Elevation ENERGEN RESOURCES CORPORATION 6815								
L					¹⁰ Surface	Location				L	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line		from the	l	est line	County RIO
В	29	32N	5W		755	NORTH	2	375	EA	ST.	ARRIBA
UL or lot no.	Section	11 B	Range	Hole I	_ocation]	f Different		m Surf		est line	T 6====
de de sacro.	Section	10412	narge	COC 101	reet won the	NO CO SOUGH INE	ree	. HOW DIE	East/m	est line	County
12 Dedicated Acres		L	L		¹³ Joint or Infill	³⁴ Consolidation Code	5 Order	No.	L	 	
	320	0.0 Acre	s - (E	/2)							
NO ALLOW	ABLE W	ILL BE A	ASSIGNEI NON-ST	D TO TH	IIS COMPLETI	ON UNTIL ALL EEN APPROVED	INTE BY T	RESTS H	IAVE BE	EN CON	NSOL IDATED
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OPERATIONS PLAN

WELL NAME: Elk Horn #101

LOCATION: 755' FNL, 2375' FEL, Section 29, T32N, R5W, Rio Arriba County, NM ELEVATION: 6815' GL

Basin Fruitland Coal

FORMATION TOPS:

Surface	San Jose
Nacimiento	1510
Ojo Alamo	2835
Kirtland	2945
Fruitland	3360

Total Depth 3625

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None Inter TD to total depth: None

Mud Logs:

Intermediate to total depth

Coring:

Natural Gauges:

Every 500' from intermediate TD to total depth

MUD PROGRAM: Fresh water low solids mud from surface to intermediate TD (9.0 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 ¼"	200'	9 5/8"	32.3#	H-40- ST&C
8 ¾"	3435'	7"	20#	J-55 – ST&C
6 ¼"	3335'-3625'	5 ½"	15.5#	J-55 – LT&C

TUBING PROGRAM:

3550' 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 sks Class B Cement with ¼" flocele/sk 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 bow type centralizers spaced throughout the string.

7" intermediate casing – cement with 430 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ½# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ½# flocele/sk. (980 cu. ft. of slurry, 90% 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. 10 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

5 1/2" liner - NO CEMENT

OTHER INFORMATION:

- 1) The Basin Fruitland Coal will be completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) If lost circulation is encountered sufficient LCM will be added to the mud system to maintain well control.
- 4) This gas is dedicated.
- 5) Anticipated pore pressure for the Fruitland is 700 psi.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

	FORM APPROV OMB NO. 1004- Expires: November 3	0135
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	Expi	res: N	loven	nber	30,	
Kr/a	C	1 2	ı.			

	Ex	pires:	NO	embe
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n not use t	his form for	nrono	sals to drill d	r to i	roenfor an	

SUNDRY NOTICES	AND REPORTS (7000 50	9 29 8% V 5/16 gase S	Serial No. 51
Do not use this form for abandoned well. Use For	proposals to drill or m 3160-3 (APD) for	to re-enter an such proposals()7()	armingion, 6.16 India	n, Allottee or Tribe Name
SUBMIT IN TRIPLICATE -	Other instructions	on reverse side	7. If Unit	or CA/Agreement, Name and/or N
1. Type of Well Oil Well X Gas Well Other 2. Name of Operator ENERGEN RESOURCES CORPORATION			8. Well Na Elk Horr	
3a. Address 2198 Bloomfield Highway, Farmington 4. Location of Well (Footage, Sec., T., R., M., or Survey of Type 1865) 755' FNL, 2375' FEL, Sec. 29, T3 NW/NE	Description)	3b. Phone No. (include are (505) 325-6800	10. Field a Basin Fr	und Pool, or Exploratory Area Puitland Coal y or Parish, State
12. CHECK APPROPRIATE	BOX(ES) TO IND	ICATE NATURE OF N		
TYPE OF SUBMISSION		TYF	PE OF ACTION	
Notice of Intent X Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Operation (clearly of the proposal is to deepen directionally or recompattach the Bond under which the work will be perfollowing completion of the involved operations, testing has been completed. Final Abandonment determined that the final site is ready for final insperior of the involved operations. 13. Describe Proposed or Completed Operation (clearly of the proposed of th	plete horizontally, give surformed or provide the I If the operation results in Notices shall be filed on ction.)	ls, including estimated starting ubsurface locations and meas sond No. on file with BLM/1 a multiple completion or rely after all requirements, inc	ured and true vertical depths of BIA. Required subsequent recompletion in a new interval, luding reclamation, have been	Well Integrity X Other Spud and approximate duration thereof of all pertinent markers and zones ports shall be filed within 30 days a Form 3160-4 shall be filed once a completed, and the operator has
casing, set @ 251'. RU BJ Service Plug down @ 10:00 am on 09/24/03 casing & BOP to 600 psi- ok.	ces. Cement with Circulate 5 bl	125 sks Class C, 2	2% CaCl2, 1/4#/sk fl	ocele (176 cu.ft.).
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) V1ck1 Donaghey		Title Produc	tion Assistant	

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vicki Donaghey	Γitle	Production Assistant
Text Domahan	Date	09/25/03
THIS SPACE FOR FEDERAL	OR	R STATE OFFICE USE ACCEPTED FUR RECURL
Approved by		Title OCT 0 1 2003
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon.	or Of se	Office FARMINGTUN MELU OFFICE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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 representations as to any matter within its jurisdiction.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 39, 2000

7. If Unit or CA/Agreement, Name and/or No

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

6. If Indian, Allottee or Tribe Name

		070 Force	lington, N	in a	
1. Type of Well Oil Well X Gas Well Other			migion, n	8. Well Name and No.	1
2. Name of Operator				Elk Horn 101	ī
ENERGEN RESOURCES CORPORATION				9. API Well No.	
3a. Address		3b. Phone No. (include ar	ea code)	30-039-27450	
2198 Bloomfield Highway, Farmington	. NM 87401	(505) 325-680	0	10. Field and Pool, or Explorate	ory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey)	Description)			Basin Fruitland Coal	•
755' FNL, 2375' FEL, Sec. 29, T3	2N, R05W, N.M.P	.M.			····
NW/NE				11. County or Parish, State	
				Rio Arriba N	ł <u>M</u>
12. CHECK APPROPRIATE	BOX(ES) TO INT	DICATE NATURE OF	NOTICE, REI	PORT, OR OTHER DATA	
TYPE OF SUBMISSION		TYI	PE OF ACTION	١	
Notice of Intent	Acidize	Deepen	Production	on (Start/Resume) Water Shut-	Off
	Alter Casing	Fracture Treat	Reclamat	tion Well Integrit	y
X Subsequent Report	Casing Repair	New Construction	Recompl	=	t casing
Final Abandonment Notice	Change Plans	Plug and Abandon	Tempora	rily Abandon	
—	Convert to Injecti	on Plug Back	Water D	isposal	
12 Design Constant Operation (class)		7			

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

09/29/03 Ran 77 jts.7" 23# J-55 ST&C casing, set @ 3433'. RU BJ Services. Cement with 425 sks 65/35 Class C poz, 3% CaCl2, 1/4#/sk flocele, 10#/sk gilsonite, 8% bentonite, 0.4% sodium metasilicate followed by 100 sks Class C, 1/4#/sk flocele, 10#/sk gilsonite (1005 cu.ft.). Plug down @ 3:00 am on 09/30/03. Circulate 15 bbls cement to surface. RD BJ Services. WOC. NU BOP. Test casing & BOP to 1200 psi-ok.



14. I hereby certify that the foregoing is true and correct	Title	
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vicki Donaghey	Production Assis	stant
Vicki Tamagray	Date 10/01/03	ACCEPTED FOR RECORD
THIS SPACE FOR FEDERAL	L OR STATE OFFICE USE	
Approved by	Title	Q 停奪 ∩ 8 2003
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon.	or Office use	FARMINGTON FIELD OFFICE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, 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 representations as to any matter within its jurisdiction.

DEVIATION REPORT

Name of Company	Address /
ENERGEN RESOURCES CORPORATION	2198 BLOOMFIELD HWY, FARMINGTON, NM 87401

Lease Name & Number	Unit Letter	Section	Township	Range
ELK HORN #101`	В	29	32N	05W

Pool and Formation	API Number	County
Basin Fruitland Coal (71629)	30-039-27450	Rio Arriba

Depth (Ft.)	<u>Deviation</u> (Degrees)
260	.50
733	.50
1236	.75
1737	1.50
2266	1.75
2760	4.00
2916	4.75
3071	4.75
3220	4.50

I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer for Energen Resources Corporation, am authorized by said Company to make this report; and that this report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to before me this 29th day of October, 2003.

Notary Public in and for San Juan County, New Mexico. My commission expires: September 18th, 2004.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000 Lease Serial No. NMNM4461

6.	If Indian,	Allottee o	F Tribe	Name

abandoned wel	I. Use form 3160-3 (APD) for s	uch proposals.		b. If indian, Allottee or	Inde Name
SUBMIT IN TRII	PLICATE - Other instructions o	n reverse side.		7. If Unit or CA/Agreen	nent, Name and/or No.
I. Type of Well ☐ Oil Well ☑ Gas Well ☐ Oth	aer .			8. Well Name and No. ELK HORN 101	
2. Name of Operator ENERGEN RESOURCES CO	Contact: VICKI	ONAGHEY donaghe@energen.com		9. API Well No. 30-039-27450-00)-X1
3a. Address	•	one No. (include area code)		10. Field and Pool, or B	
2198 BLOOMFIELD HIGHWA FARMINGTON, NM 87401	Y Ph: 50 Fx: 50	05.325.6800 Ext: 238 5.326.6112		BASIN FRUITLA	ND COÁL
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish, a	nd State
Sec 29 T32N R5W NWNE 75	5FNL 2375FEL	·		RIO ARRIBA CO	UNTY, NM
12. CHECK APPE	ROPRIATE BOX(ES) TO INDIC	CATE NATURE OF N	NOTICE, RI	EPORT, OR OTHER	.DATA
TYPE OF SUBMISSION	FACTION				
☐ Notice of Intent		Deepen	□ Product	ion (Start/Resume)	☐ Water Shut-Off
_	_	Fracture Treat	□ Reclama		☐ Well Integrity
Subsequent Report	_	New Construction	☐ Recomp		Other Drilling Operations
Final Abandonment Notice		Plug and Abandon	_	namy Abandon	
	Convert to Injection	Plug Back	□ Water D	Disposal	
10/20/03 TD: 3605' PBTD: 3 3285'. No cement. Release r	3605' Ran 7 jts. 5-1/2" 15.5# J-5 ig.10/21/03.	5 ST&C casing, set @	2 3605'. TO	£6789m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14. Thereby certify that the foregoing is	true and correct. Electronic Submission #24612 v. For ENERGEN RESOURCES nitted to AFMSS for processing by	CORPORATION. sent t	o the Farmir	aton	<i>y</i>
Name (Printed/Typed) VICKI DO			ICTION ASS	•	•
Signature (Electronic S	Submission)	Date 10/29/20	003		
	THIS SPACE FOR FED			SE .	
Approved By ACCEPT	ED	ADRIENNI TitlePETROLE		EER	Date 12/08/2003
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conductive con	uitable title to those rights in the subject luct operations thereon.	ant or lease Office Farming	ton		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a crime for statements or representations as to any m	r any person knowingly and atter within its jurisdiction.	l willfully to m	ake to any department or	agency of the United

COME	PLETION OR RECOMPLETION REI		3G003 =	5. Lease Serial No.
	BUREAU OF LAND MANAGEMENT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	النه الله الله الله الله الله الله الله	Expires: November 30, 200
	DEPARTMENT OF THE INTERIOR	(2) V		OMB No. 1004-0137
	UNITED STATES	//\ ^\/	//%	TOKMATROVED

	WELL C	OMPL	ETION O	R REC	OMPLE	TION	REPO	XT A	ND, F	66.03	V 15		ase Serial N MNM4461	lo.	
la. Type of	Well	Oil Well	☑ Gas V			Othe			TOP	On	55	6. If	Indian, Allo	ttee or	Tribe Name
b. Type of	Completion	Other		□ Work (Over [Deepe	n 1	Plug B	ack s	Diff.	Resy	7. Ui	nit or CA A	greeme	nt Name and No.
2. Name of	Operator			1011	Contac	t: VICK	DONAG	HEY	£ 15.	2.22/2	N. S. C.		ase Name a		li No.
3. Address	EN RESOL 2198 BLO		HIGHWA			E-Ma	il: vdonag 3a. Phone	_	-		e) ,		LK HORN PI Well No.	101	
	FARMING	TON, NA	87401			Falan	Ph: 505.	.325.6				- TA - T	*************		9-27450-00-S1
		T32N R	5W Mer NN	in accord	iance with	1 Federa	requireme	ents)+					ield and Po ASIN FRU		
At surfa	ce NWNE. rod interval r		2375FEL									11. S	ec., T., R., Area Sec	M., or 29 T3	Block and Survey 32N R5W Mer NMP
At total		сропса в	.10**									12. C	County or Pa	rish A	13. State NM
14. Date Sp 09/23/2	oudded			te T.D. Re 20/2003	ached			Date Co 0 & A 0/21/2	omplete	d Ready to	Prod.	17. E	levations (I 681	OF, KE 5 GL	, RT, GL)*
18. Total D	epth:	MD TVD	3605	719	9. Plug B	ack T.D.		5	360	05	20. Dep	th Bri	dge Plug Se		MD TVD
	ectric & Oth		ical Logs R	un (Submi	t copy of	ach)					well core	1?	No [¬ Yes	(Submit analysis)
NONE											DST run? ctional Su	rvey?	RTNo ñ	च Yes	(Submit analysis) (Submit analysis)
23. Casing at	nd Liner Reco	ord (Repo	rt all strings	set in wel	0				1						
Hole Size	Size/G	rade	Wt. (#/ft.)	Top (MD)	Bott (M	,	age Cemer Depth	nter		f Sks. & f Cement	Slurry (BB	-	Cement T	op*	Amount Pulled
12.250		25 H-40	32.0		0	251				12				0	
8.750	ļ	00 J-55	23.0	220	0	3433		-		52					
6.250	5.8	500 J-55	16.0	328	20	3605					0				
					-			$\neg +$							
24. Tubing	Depth Set (M	(D) P:	cker Depth	(MD) I	Size	Denth S	et (MD)	Pac	ker Den	th (MD)	Size	T De	pth Set (MI	<u>n I i</u>	Packer Depth (MD)
2.375		3578	one sopu.	(2)	-				<u></u>	(1.12)	0.20	+=	par out (t dente. Depth (MD)
25. Produci	ng Intervals					26. Pe	rforation I	Record							
	ormation	2041	Тор	3439	Bottom 3564	<u>. </u>	Perforated Interval 3439 TO 3564			0.2564			No. Holes Perf. Status		Perf. Status
A) FR	RUITLAND	JUAL		3439	330	<u> </u>		-	7439 IV	0 3304	0.0	30	140	4 331	<u> </u>
C)						1									
D)															
	racture, Treat Depth Interva		nent Squeeze	e, Etc.				Amo	unt and	Time of	Material				
	Depen interva	-						Alik	unt and	1 ype of	Wiawiiai				
28. Product	ion - Interval	Α										-			
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Wate BBL		Dil Gravit Corr. AP		Gas Grav	ity	Product	on Method		
10/21/2003	10/28/2003	168	<u>-></u>	0.0	39.0		0.0						GAS	PUMPI	NG UNIT
Choke Size	Tbg. Press. Flwg. SI 90	Csg. Press. 1020.0	24 Hr. Rate	Oil BBL Oil	Gas MCF 935	Wate BBL		Gas:Oil Cario		Well	Status GSI				
28a. Produc	tion - Interva												CCEDTE	n P	In proc-
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Wate BBL		Oil Gravi		Gas Grav	ity	Product	on Method	∪ 	OR RECORL
								_			•		1151		2000
Choke Size	Tog. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Wate BBL		Jas:Oil Catio		Well	Status			v c	.2003
(See Instruct	ions and spa	ces for a	ditional date	OF PARTIE	a pida)			<u>·</u>					Farmingi ay	UN F	ELU UFFICE
(nee mon act	ions unu spu	ces jur uu	umonut adid	on revers	e sw <i>ej</i>										l

ELECTRONIC SUBMISSION #24614 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

*** BLM REVISED *** BLM REVISED *** BLM REVISED *** BLM REVISED ***

							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	uction - Inter	<u> - </u>	-	Tai:		1	In a			In it is a second	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Grav		Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well	Status		J
28c. Prod	uction - Inter	val D		<u></u>	-	ш					
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Grav		Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well	Status	<u> </u>	
29. Dispo	sition of Gas	(Sold, used	for fuel, ven	ted, etc.)	·	<u> </u>	- L			· · · · · · · · · · · · · · · · · · ·	
Show tests,	nary of Porou all important including dep ecoveries.	zones of p	orosity and c	ontents ther	eof: Cored ne tool open	intervals an	d all drill-stem nd shut-in pressu	es	31. For	mation (Log) Markers	
	Formation		Тор	Bottom		Descript	ions, Contents, et	c.		Name	Top Meas. Depth
SAN JOSE 0 NACIMIENTO 1551 OJO ALAMO 2842				1551 2842 2956					PIC	CTURED CLIFFS	3567
			·								
									į		
32. Addii NO F	tional remark REMARK PF	s (include p ROVIDED	lugging proc	edure):							
				· · · -			·				
1. EI	e enclosed att lectrical/Mecl indry Notice	nanical Log			1	2. Geolog 6. Core A			3. DST Re 7 Other:	eport 4. Direc	tional Survey
34. I here	by certify the	at the forego								e records (see attached instru	ections):
Name	e(please prin		Fo ommitted to	r ENERGE	N RESOU	RCES CO	ed by the BLM V RPORATION, S IENNE GARCL	sent to the A on 12/08	Farming 8/2003 (04	ton	
	-				<u></u>		- Inte	NODUC	TION AS	OIOTAINT	·
Signa	ature	(Electror	ic Submiss	ion)		 :	Date	10/29/200)3		
										y to make to any department	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

					RHAF		<u> </u>		··	
	APPLICAT	ION FOR PER	MIT TO DRILL	OR REENTI	R	V 5	Lease Serial NM-4461	No.		
a. Type of Work	X	RILL	REENTE	R	2003 HAR -7	AM 16.	Indian, All	otee or Tribe N	lame	
o. Type of Well	Oil Well	X Gas Well	Other	X Single Zone	O Multiple Zon		Unit or CA	Agreement Nan	ne and No.	
Name of Operato					VI CALL CALL IN A	,		and Well No.	2501	
<u>Energen Resou</u>	irces Corpora	ation		Total Discourse	- No. Grahida area co	4-5	Elk Horn	100		
n. Address 2100 Plaamfii	old Highway	Earmington	New Mexico 8	i	e No. (include area co (505)325-6800	9.	API Well No	392	733	
Location of Well	(Report location	clearly and in acco	ordance with any Sta	te equirements)'		<u> </u>		ol, or Explorate		
At surface 72	5 FSL. 800	FWL - SWSI	N		(1) 13 A	0/0	Basin Fr	uitland C	oál	
At proposed prod	-			8	JUL 2003		M	M., or Blk. and T32N, R0		
4. Distance in miles	and direction from	nearest town or p	ost office*	— ©	OIL CONVED	10	County or Pa			
		16 miles n	ortheast of G	obernader	DIA CONS. DI	∠ ÎŘÍ	o Arriba			
5. Distance from pr	•			16. No. of 40	res in lease . 3	17. Speci	ng Unit dedic	ated to this we	1) -	
location to neare property or lease		725		4	(C) 00 - 00	103		00.00		
(Also to nearest	drg. unit line, if an	y)			29303. EDE 85	P. P.		320/W2		
8. Distance from pr				19. Proposed	Depth	20.BLM	/BIA Bond l	No. on file		
to nearest well, o applied for, on th	irilling, completed, his lease, ft.	75'		3	522 '					
I. Elevations (Show	whether DF, KDE	RT, GL, etc.		22. Approxin	rate date work will sta	rt*	23. Estimat	ed duration		
6682' GL					06/01/03			5 days		
			2	4. Attachment	s					
he following, comp	leted in accordance	e with the requiren	nents of Onshore Oil	and Gas Order	No. 1, shall be attache	d to this fo	rm:			
. Well plat certifie	ed by a registered s	urvevor.		4. Bo	nd to cover the operat	ions unless	covered by	n existing bon	d on file (see	
. A Drilling Plan					above).				(
			est System Lands, the	-	erator certification.					
SUPO shall be f	iled with the appro	priate Forest Servi	ce Office).	ľ	ch other site specific in horized officer.	nformation	and/or plans	as may be requ	ired by the	
5. Signuature	~	\		Name (Printed/)				Date		
1,)	هر به	Lanna 1		Doug Thoma	s			12	2/30/02	
Title		-								
0	Lompletion	roreman		NI (D : . 16	7 8			.		
Drilling 8				Name (Printed/I	ypea)			Date JUL	1 4 200	
Approved by (Signar	utre)	iowicz	•							
Approved by (Signat		iewicz							1 4 200	
Approved by (Signat	utre)	iewicz		Office						
Approved by (Signal /a/ Day	utre) vid J. Mank Il does not warranthereon.	t or certify that th			itle to those rights in	the subjec	t lease which	would entitle		
Approved by (Signal Application approva conduct operations of approva	utre) vid J. Mank I does not warran thereon. val, if any, are attach	t or certify that the	e applicant holds leg	zal or equitable t	itle to those rights in				the applican	

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



District I 190 Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Antesia, 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 Form C-102

Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office

State Lease - 4 Cooper

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT											
30-0	Number 39-	2733	3-7	³ Pool Coo 71529	!	Pool Name Basin Fruitland Coal						
Property 3256	Code						Name IORN			•We	11 Number 100	
'0GRID 1 16292			Ε	ENERGE	Name ES CORPORA	TION	_		1649 journal 1945 j			
					¹⁰ Surfa	ice	Location					
UL or lat no.	Section 29	32N	Range 5W	Lot Idn	Feet from 725		North/South line SOUTH	ST	County RIO ARRIBA			
		11 E	Bottom	Hole L	ocation	n <u>I</u>	f Different	From Surf	ace			
Ut. or lot no.	Section	Township	Range	Lot Ion	Feet from	the	North/South line	Feet from the	est line	County		
12 Dedicated Acres	320	.0 Acre	s - (W	/2)	13 Joint or In	nfill	¹⁴ Consolidation Code	¹⁵ Order No.				
NO ALLOW	IABLE W	ILL BE A	ASSIGNEI NON-ST	O TO TH	IS COMPL UNIT HA	ETI S BE	ON UNTIL ALL EN APPROVED	INTERESTS H BY THE DIVI	AVE BE SION	EN CON	SOLIDATED	
16			52	77.36		7151	677	I hereby contains to the last of the last	d certify d herein sest of my ee	that the list the and knowledge	complete and belief	
				Ē	A331	91/187	Produ	ction	Superi	ntendant		

Title 12-13-02 Date *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. 5280. Survey Date: NOVEMBER 5, 2002 Signature and Seal of Professional Surveyor SECH MEXICO SEN MEXIC MM , no logimis + 070 PROFESSIONAL PROFESSIONAL THE :II WY L- BYN EDIZ 800 5278.68 Certificate Number 15269

UNITED STATES DEPARTMENT OF THE INTERIOR

och ito	FORM APPROVED OMB NO. 1004-0135	
CEIVED		_
1 5. La	ease Serial No.	

(August 1999)		OF THE INTERIOR ND MANAGEMEN	=	RECEIV		NO. 1004-0135 November 30, 2000
	SUNDRY NOTICES Do not use this form for abandoned well. Use Form	proposals to drill or	to re-enter an	D3 JUN 10 A	NM-4461 d. If Indian, Allo	no. ttee or Tribe Name
	SUBMIT IN TRIPLICATE - (Other instructions				Agreement, Name and/or No
. Name of Operator	Gas Well Other				8. Well Name and Elk Horn	d No. 100
a. Address	RCES CORPORATION eld Highway, Farmington	. NM 87401	3b. Phone No. (included) (505) 325-	-	9. API Well No.	ol, or Exploratory Area
Location of Well (F	ootage, Sec., T., R., M., or Survey I)'FWL, Sec. 29, T32N, I	Description)			Basin Fruit 11. County or P Rio Arriba	land Coal
12.	CHECK APPROPRIATE	BOX(ES) TO INC	ICATE NATURE	OF NOTICE, REI		ER DATA
TYPE	OF SUBMISSION			TYPE OF ACTION	4	
	ice of Intent sequent Report	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Construction	Reclamat	~	Water Shut-Off Well Integrity Other
Fina	l Abandonment Notice	Convert to Injection	Plug and Abando	Tempora Water Di	rily Abandon isposal	
If the proposal in Attach the Bond following completesting has been determined that	sed or Completed Operation (clearly is to deepen directionally or recomp d under which the work will be per letion of the involved operations. It is completed. Final Abandonment is the final site is ready for final inspec	lete horizontally, give so formed or provide the lefthe operation results in lotices shall be filed on tion.)	ubsurface locations and Bond No. on file with E n a multiple completion ly after all requirements	measured and true v LM/BIA. Required or recompletion in a s, including reclamat	ertical depths of all j subsequent reports new interval, a Fortion, have been cons	pertinent markers and zones. shall be filed within 30 days m 3160-4 shall be filed once pleted, and the operator has

from 3465'at the base of the coal to 3522' in order to provide rat hole to efficiently pump this well. A mud log over the section will be furnished at time of drill out. All other data is consistant with the previously Submitted APD.



 I hereby certify that the foregoing is true and correct Name (Printed/Typed) 	Title					
Vicki Donaghey	Production Assistant					
Vicki Tonaghay	Date 6/6/03					
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
Approved by /a/ David J. Mankiewicz		te JUL 1 4 2003				
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject I which would entitle the applicant to conduct operations thereon.	nt or Office ease					

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

E		Expires: November 30, 2000							
SUNDRY Do not use th		5. Lease Serial No. NMNM4461	v deile Ne						
abandoned we	III. Use form 3160-3 (AP	D) for such p	oposals.		6. If Indian, Allottee of	T ITIDE Nam	e		
SUBMIT IN TR	IPLICATE - Other Instruc	ctions on reve	rse side.		7. If Unit or CA/Agreement, Name and/or No.				
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ O	her				8. Well Name and No. ELK HORN 100				
2. Name of Operator ENERGEN RESOURCES CO	Contact: DRPORATION	•	ne@energen.com		9. API Well No. 30-039-27337-00-X1				
3a. Address 2198 BLOOMFIELD HIGHW FARMINGTON, NM 87401	AY		(include area code 5.6800 Ext: 238 6112		10. Field and Pool, or BASIN FRUITL				
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description	n) .			11. County or Parish,	and State			
Sec 29 T32N R5W SWSW 7	25FSL 800FWL				RIO ARRIBA C	OUNTY, N	M		
12. CHECK APP	ROPRIATE BOX(ES) TO	O INDICATE	NATURE OF	NOTICE, RI	EPORT, OR OTHE	R DATA			<u> </u>
TYPE OF SUBMISSION			TYPE O	F ACTION					
Notice of Intent	☐ Acidize	□ Deep	en	Product	ion (Start/Resume)	□ Wate	r Shut	-Off	
_	Alter Casing	□ Fract	ure Treat	□ Reclam	ation	□ Well	Integr	rity	
☐ Subsequent Report	☐ Casing Repair		ew Construction	_	Recomplete		Other Change to Original	.1 A	
Final Abandonment Notice	Change Plans		and Abandon	_	arily Abandon	PD PD	to Or	igina	1 A
	Convert to Injection	□ Plug	Back	□ Water I	Disposal				
Attach the Bond under which the w following completion of the involve testing has been completed. Final A determined that the site is ready for At the request of Chip Harrar same in the operations plan.	d operations. If the operation re bandonment Notices shall be fil final inspection.) dan, BLM, the TD has bee	sults in a multiple led only after all r	e completion or rec equirements, inclu	completion in a diding reclamation	new interval, a Form 31 n, have been completed	60-4 shall be	filed o	once	
	Electronic Submission For ENERGEN RESOmmitted to AFMSS for proc	URCES CORP	OŘATION, sent	to the Farmir	ngton				
Name (Printed/Typed) VICKI DO	•	essing by Adii		UCTION AS					
Signature (Electronic	Submission)		Date 03/12/2	2003					
	THIS SPACE FO	OR FEDERA			SE				
In I Day id 1	Menkiowicz						=	-	_
Approved By /s/ David J.			Title			취	Į 1	4	200
Conditions of approval, if any, are attact ertify that the applicant holds legal or exhibit would entitle the applicant to con-	quitable title to those rights in th	s not warrant or subject lease	Office						

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

OPERATIONS PLAN

WELL NAME: Elk Horn #100

LOCATION: 725' FSL, 800' FWL, Section 29, T32N, R5W, Rio Arriba County, NM ELEVATION: 6682' GL

FIELD: **Basin Fruitland Coal**

FORMATION TOPS:

Surface	San Jose
Nacimiento	1427
Ojo Alamo	2717
Kirtland	2832
Fruitland	3252

Total Depth

3522

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None Inter TD to total depth: None

Mud Logs:

Intermediate 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 (9.0 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"	32.3#	J-55 - ST&C
8 3/4"	3332'	7"	20#	J-55 – ST&C
6 1/4"	3232'-3522'	5 1/2"	15.5#	J-55 – LT&C

TUBING PROGRAM:

3450' 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 sks Class B Cement with 1/4" flocele/sk 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 bow type centralizers spaced throughout the string.

7" intermediate casing – cement with 325 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ¼# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ¼# flocele/sk. (751 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. 10 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

5 1/2" liner - NO CEMENT

OTHER INFORMATION:

- 1) The Basin Fruitland Coal will be completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) If lost circulation is encountered sufficient LCM will be added to the mud system to maintain well control.
- 4) This gas is dedicated.
- 5) Anticipated pore pressure for the Fruitland is 700 psi.

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

		E.	xpır	es	:	No	vem	ber	3
7					٠.				

 440	•

SUNDRY NOTICES	AND REPORTS ON WE	as RECEI	VÉD	5. Lease Serial No. NM-4461
Po not ase this form for abandoned well. Use For	nronosals to drill or to ro-o	ntar an	PM 1: 4	6. If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE -	Other instructions on rev	rerse side 070 Farming	gton, NM	7. If Unit or CA/Agreement, Name and/or N
1. Type of Well Oil Well X Gas Well Other				8. Well Name and No. Elk Horn 100
2. Name of Operator ENERGEN RESOURCES CORPORATION				
3a. Address	3b. Ph	one No. (include area	code)	9. APLIVEII No. 039 - 9733
2198 Bloomfield Highway, Farmington		505) 325-6800		10. Field and Pool, or Exploratory Area
 Location of Well (Footage, Sec., T., R., M., or Survey I 725' FSL, 800' FWL, Sec. 29, T32N, 	- ·			Basin Fruitland Coal
725 FSL, 800 FWL, Sec. 29, 132N,	KJW, N.M.P.M.			11. County or Parish, State
				Rio Arriba NM
12. CHECK APPROPRIATE	BOX(ES) TO INDICATE	NATURE OF NO	TICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE	OF ACTION	
Notice of Intent	Acidize	Deepen	Production	(Start/Resume) Water Shut-Off
X Subsequent Report	Alter Casing	Fracture Treat	Reclamation	on Well Integrity
V oncedent report	Casing Repair	New Construction	Recomple	te X Other <u>Spud</u>
Final Abandonment Notice	Change Plans	Plug and Abandon	Temporari	ly Abandon
	Convert to Injection	Plug Back	Water Dis	posal
Attach the Bond under which the work will be perfollowing completion of the involved operations. I testing has been completed. Final Abandonment I determined that the final site is ready for final inspection of the state of th	If the operation results in a multi Notices shall be filed only after a ction.) 1/03. Drill 12-1/4" h ees. Cement with 125 s	ple completion or reconstitution of reconstitution of the constitution of the constitu	mpletion in a ling reclamation of the color	new interval, a Form 3160-4 shall be filed once on, have been completed, and the operator has 9-5/8" 32.3# H-40 ST&C /4#/sk flocele (176 cu.ft.).
		SEP 200	72 13 N. 33	
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vick1 Donaghey	Ti	itle Producti	on Assist	ant
Vicki Tomankin	D	ate 08/27/03		
SAT O	6 SPACE FOR FEDERAL	OR STATE OFFIC	CE USE	ACCEPTED FOR RECORL
Approved by		Title		Date
Conditions of approval, if any, are attached. Approval				SEP 0 5 2003
certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations to		4		ARMINGTUN FIELD OFFICE

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

	Expires: November 30, 2000				
5.	Lease Serial No.	_			
ш	AACT				

-	SUNDRY	NOTICES	AND	REPORTS	ON	WELLS
---	--------	---------	-----	---------	----	-------

Do not use this form for proposals to drill or to re-enter any abandoned well. Use Form 3160-3 (APD) for such proposals. 6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

			L		
1. Type of Well Oil Well X Gas Well Other			8. Well Name a		100
2. Name of Operator			Elk Horn		100
ENERGEN RESOURCES CORPORATION			9. API Well No		422
3a. Address	3b. Phone No. (include ar	•	30-03		155
2198 Bloomfield Highway, Farmington, NM 87401 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	(505) 325-680	0	10. Field and Po Basin Fruit		
725' FSL, 800' FWL, Sec. 29, T32N, R5W, N.M.P.M.			11. County or I	Parish, State	
			Rio Arriba	·	NM .
12. CHECK APPROPRIATE BOX(ES) TO IND	PICATE NATURE OF	NOTICE, REP	ORT, OR OTH	ER DATA	
TYPE OF SUBMISSION	TY	PE OF ACTION			
Notice of Intent	Deepen	Production	(Start/Resume)	Water S	hut-Off
X Subsequent Report	Fracture Treat	Reclamatio	on [Well Into	grity
Casing Repair	New Construction	Recomplet	te ·	X Other _	<u>set casing</u>
Final Abandonment Notice Change Plans	Plug and Abandon	Temporari	ly Abandon		
Convert to Injectic	on Plug Back	Water Disp	posal		
following completion of the involved operations. If the operation results in testing has been completed. Final Abandonment Notices shall be filed on determined that the final site is ready for final inspection.) 08/26/03 Ran 75 jts. 7" 23# J-55 ST&C casing, so Class C poz, 3% CaCl2, 8% gel, 1/4#/sk flocele, CaCl2, 1/4#/sk flocele, 10#/sk gilsonite (984 cu	et @ 3332'. RU BJ 0.4% sodium metasi .ft.). Plug down	ecompletion in a reclamation of the complete complete. Services. licate following or the complete complete.	new interval, a Foon, have been con Cement with bwed by 100 1 08/26/03.	rm 3160-4 sinpleted, and 415 sks sks Clas	hall be filed once the operator has 65/35 s C, 2%
following completion of the involved operations. If the operation results it testing has been completed. Final Abandonment Notices shall be filed on determined that the final site is ready for final inspection.) 08/26/03 Ran 75 jts. 7" 23# J-55 ST&C casing, so Class C poz, 3% CaCl2, 8% gel, 1/4#/sk flocele, CaCl2, 1/4#/sk flocele, 10#/sk gilsonite (984 cu bbls to surface. WOC. RD BJ Services. Nu BOP.	n a multiple completion or rely after all requirements, in et @ 3332'. RU BJ 0.4% sodium metasi.ft.). Plug down Test casing & BO	ecompletion in a reclamation of the complete complete. Services. licate following or the complete complete.	new interval, a Foon, have been con Cement with bwed by 100 1 08/26/03.	m 3160-4 simpleted, and 415 sks sks Class Circula 29 PN	hall be filed once the operator has 65/35 s C, 2%
following completion of the involved operations. If the operation results it testing has been completed. Final Abandonment Notices shall be filed on determined that the final site is ready for final inspection.) 08/26/03 Ran 75 jts. 7" 23# J-55 ST&C casing, so Class C poz, 3% CaCl2, 8% gel, 1/4#/sk flocele, CaCl2, 1/4#/sk flocele, 10#/sk gilsonite (984 cu bbls to surface. WOC. RD BJ Services. Nu BOP. 14. I hereby certify that the foregoing is true and correct Name (Printed Typed) Vick1 Donaghey	na multiple completion or rely after all requirements, in et @ 3332'. RU BJ 0.4% sodium metasi.ft.). Plug down Test casing & BO	Services. licate follo 1:00 pm or p to 1200 ps	Cement with owed by 100 n 08/26/03. Si - ok.	m 3160-4 simpleted, and 415 sks sks Class Circula 29 PN	hall be filed once the operator has 65/35 s C, 2% te 6
following completion of the involved operations. If the operation results it testing has been completed. Final Abandonment Notices shall be filed on determined that the final site is ready for final inspection.) 08/26/03 Ran 75 jts. 7" 23# J-55 ST&C casing, so Class C poz, 3% CaCl2, 8% gel, 1/4#/sk flocele, CaCl2, 1/4#/sk flocele, 10#/sk gilsonite (984 cu bbls to surface. WOC. RD BJ Services. Nu BOP. 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vicki Donaghey	na multiple completion or rely after all requirements, in et @ 3332'. RU BJ 0.4% sodium metasi.ft.). Plug down Test casing & BO SE 2003 Title Product Date 08/27/0	completion in a reluding reclamation Services. licate followard f	Cement with owed by 100 n 08/26/03. si - ok.	m 3160-4 simpleted, and 415 sks sks Class Circula 29 PN 1: 41	hall be filed once the operator has 65/35 s C, 2% te 6
following completion of the involved operations. If the operation results it testing has been completed. Final Abandonment Notices shall be filed on determined that the final site is ready for final inspection.) 08/26/03 Ran 75 jts. 7" 23# J-55 ST&C casing, so Class C poz, 3% CaCl2, 8% gel, 1/4#/sk flocele, CaCl2, 1/4#/sk flocele, 10#/sk gilsonite (984 cu bbls to surface. WOC. RD BJ Services. Nu BOP. 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vick1 Donaghey HIS SPACE FOR FED.	Title Product Date 08/27/0 Parall reguirements, in set @ 3332'. RU BJ 0.4% sodium metasi .ft.). Plug down Test casing & BO Title Product Date 08/27/0 DERAL OR STATE OF	completion in a reluding reclamation Services. licate followard f	Cement with owed by 100 n 08/26/03. si - ok. 070 Farmington, NM	m 3160-4 simpleted, and 415 sks sks Class Circula 29 PN 1:41	hall be filed once the operator has 65/35 s C, 2% te 6
following completion of the involved operations. If the operation results it testing has been completed. Final Abandonment Notices shall be filed on determined that the final site is ready for final inspection.) 08/26/03 Ran 75 jts. 7" 23# J-55 ST&C casing, so Class C poz, 3% CaCl2, 8% gel, 1/4#/sk flocele, CaCl2, 1/4#/sk flocele, 10#/sk gilsonite (984 cu bbls to surface. WOC. RD BJ Services. Nu BOP. 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vicki Donaghey	na multiple completion or rily after all requirements, in et @ 3332'. RU BJ 0.4% sodium metasi.ft.). Plug down Test casing & BO SE 2003 Title Product Date 08/27/0 DERAL OR STATE OF	completion in a reluding reclamation Services. licate followard f	Cement with owed by 100 n 08/26/03. si - ok.	m 3160-4 simpleted, and 415 sks sks Class Circula 29 PN 1: 41	hall be filed once the operator has 65/35 s C, 2% te 6

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210 District III

District IV
2040 South Pacheco, Santa Fe, NM 87505

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources

Form C-104 Revised March 25, 1999

Submit to Appropriate District Office 5 Copies

☐ AMENDED REPORT

. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT													
		tor name and			² OGRID Number								
Energen Res			1			3 p.					162928 ason for Filing Code		
2198 Blooms Farmington,	7							NW					
	Pl Number	1				5 Pool Na	mė				6 Pool Code		
30-0 30	0-039-273	337					and Coal					71629	
	perty Code		8	Property 1	lame				9 W	ell Number			
10	32567					E1k Ho	rn	/				100	
UL or lot no.	Surface Section	Location Township	Range	Lot. Idn	Feet fr	om the	North/Sou	th Line	Feet from th	e East/	West line	County	
M	29	32N	05W	200. 14.1	1	725	Sou		800	- 1	est	Rio Arriba	
		Hole Loc		<u> </u>					,		1110-111-179		
UL or lot no.	Section	Township	Range	Lot. Idn	Feet fi	t from the North/South Line		th Line	Feet from th	nc East/	West line	County	
					1	15 C-129 Permit N		1 16	C-129 Effe	ntina Data	1 17 6 1	29 Expiration Date	
12 Lse Code	13 Produci	ng Method Cod	c '* Gas C	onnection Date	' ''	C-129 Per	mit Number	"	- С-129 вне	ctive Date	"(-)	129 Expusion Date	
III. Oil and	Gas Tr	ancnorter	l e					_ L					
18 Transporter	10113 11	19 Tran	sporter Name	;		20 POD	,	21 O/G	2	2 POD ULS		n	
OGRÍD			Address							and De	scription		
9018		nt Industr U.S. Hig			2	836	0/0	0	M-29-1	32N-R05W			
		nington.		<u>. </u>									
25244		liams Fiel	d Service	es Company	ع	2836) //	G	M-29-t	:32N-R05W			
		. Box 645 sa. OK 7	4102			e de de la como La companya de la como La companya de la como		1.					
a in the control of t						e kan a kan dan semenjenje se 290 kilo		on the stage of the				2	
						100 W 2003				(3)			
or passing concentration of the second	1211 ACC 201					Sen To					, 🕷 🐴		
));56 1.13	E 0 000					2003		
IV Produc	ed Wat	or			400	Property and the second		ACTOR CONTRACTOR	<u> </u>	1,22	<u> </u>		
23 POD)			, -	24	POD UL	STR Location	n and Des	cription	7.7	- 0	* 3	
2836	012									```\\\.	٤٥., .	The Superior	
V. Well Co				1					1		<u>دري</u>	مستعتب	
²⁵ Spud Da 08/22/03	· .	²⁶ Read	5/03	i	TD 8 537 '		28 PBTD		²⁹ Perforations 3374' - 346		30	DHC, MC	
	ole Size	09/1		g & Tubing Size		3537 ' 33 Depth Set					34 Sacks C	Cement	
12	2-1/4"			9-5/8"			2	15'	125 sks-176 cu.ft ci			ı.ft circ.	
8	-3/4"			7"				332'	515 sks - 984 cu.ft circ.				
6	-1/4*			5-1/2"			3535 '	TOL 3	3216'	none			
				2-3/8"				209,		none			
	est Data												
35 Date New	Oil	36 Gas Deliver	y Date	37 Test Da	ite	38	Test Length		39 Tbg. Pt	ressure	40	Csg. Pressure	
41 Choke Siz		⁴² Oil		09/22/ 43 Water			7 day		62 45 AO		46	1340	
CHORC DIZ		Oii		Water				.	~ AO	Г		Test Method	
⁴⁷ I hereby certify	y that the rule	s of the Oil Co	nservation Di	ivision have bee	n [1 1	400 mcf/		CEDIZA	W (20 1 D)		~	
complied with and best of my knowle	that the info	ormation given a ef.	above is true	and complete to	ı t	A	_	700N	ISERVA'	ום אפונו	VISIO	N	
Signature:	<u>cli</u>	wal	CHI			Approved l		han	171				
Printed name: Vicki Dona	ahev		O	\mathcal{O}		TitlOEPU	TY OIL &	GAS INS	PECTOR, D	IST. /39			
Title:						Approval I		SE	P 2 4	20 03			
Production Date: 00/23		nc	Phone: Ent	225 6000									
09/23 48 If this is a ch		ator fill in the O		- 325 - 6800 er and name of	the previ	ious operate	yr .						
						vpman							
	Des-	vious Operator	Signatur-				4-d 37						
	rie	ous Operator	- Rigital City			Pri	ited Name			Ti	tle	Date	

DEVIATION REPORT

Name of Company	Address
ENERGEN RESOURCES CORPORATION	2198 BLOOMFIELD HWY, FARMINGTON, NM 87401

Lease Name & Number	Unit Letter	Section	Township	Range
ELK HORN #100	М	29	32N	05W

Pool and Formation	API Number	County
Basin Fruitland Coal (71629)	30-039-27337	San Juan

Depth (Ft.)	<u>Deviation</u> (Degrees)
200	.25
740	.50
1200	.75
1701	1.00
2200	1.00
2692	1.00
3200	1.25
3537	1.00

I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer for Energen Resources Corporation, am authorized by said Company to make this report; and that this report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to before me this 23rd day of September, 2003.

Notary Public in and for San Juan County, New Mexico. My commission expires: September 18th, 2004.



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

5.	Lease	Serial	No.
----	-------	--------	-----

NM-4461

Do not use this form for abandoned well. Use Fon			6. If Indian	n, Allottee or Tribe Name
SUBMIT IN TRIPLICATE -	Other instructions	on reverse side	7. If Unit o	or CA/Agreement, Name and/or N
Type of Well Oil Well		3b. Phone No. (include a	9. API We 30-039-2	ell No. 27337
2198 Bloomfield Highway, Farmington 4. Location of Well (Footage, Sec., T., R., M., or Survey I 725' FSL, 800' FWL, Sec. 29, T32N,	Description)	(505) 325-680	Basin Fr	und Pool, or Exploratory Area ruitland Coal y or Parish, State
12. CHECK APPROPRIATE	BOX(ES) TO IND	ICATE NATURE OF	NOTICE, REPORT, OR (OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION	
Notice of Intent X Subsequent Report	Acidize Alter Casing Casing Repair Change Plans	Deepen Practure Treat New Construction Plug and Abandon	Production (Start/Resume Reclamation Recomplete Temporarily Abandon	Water Shut-Off Well Integrity X Other set casing
Final Ahandonment Notice	Convert to Injection		Water Disposal	
No cement. Released rig.	Notices shall be filed on ction.) Ran 7 jts. 5-1/2	ly after all requirements, in 2° 15.5# J-55 ST&C	completion in a new interval, ichiding reclamation, have been casing, set @ 3535'	n completed, and the operator has
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vicki Donaghey		Title	ction Assistant	
Vicki Draghay		Date 09/24		
O TH	SPACE FOR FED	ERAL OR STATE OF	FICE USE	
Approved by		Title		Date
Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations to	those rights in the sub	arrant or Office ject lease		
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section States any false, fictitious or fraudulent statements or rep			and willfully to make to any de	epartment or agency of the United

Form 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires January 31, 2004

	WELL	COMPL	ETION OR	RECOMPLE	TION REP	ORT /	AND LOC	3 PF	=CF		5. Lease Serial - NMNM 446			
la. Type	of Well	Oil Well	X Gas We	li Dry	Other			 f b.b.		**	6. If Indian, Al		r Tribe Name	
b. Type	of Completion:	_	New Well Work Over Deepen Plug Back To Oth Resyr,							· Al	71 Unit brCA	Agreen	nent Name and	No.
									8. Lease, Name	and W	ell No.			
The gett resources corporation							ETK Hor		0					
2198 Bloomfield Highway, Farmington, NM_87401 505-325-6800								9. API Well No 30 - 039 - 1		,				
							0. Field and Po	ol, or I	Exploratory					
At surface 725' FSL, 800' FWL SW/SW						Basin Fi		and Coal						
At top prod. interval reported below							Survey or A Sec.29,	rea		PM .				
							3 h	2. County or P		13. State				
At total						<u> </u>	O _C		3		Rio Arriba		NM	
14. Date S	pudded	15. Date	e T.D. Reached	l	16. Date	Comp	leted .	1. Ready	y to Prod	3 l	7. Elevations	(DF, R	KB, RT, GL)	,
08/2	2/03	09/	15/03		"	- M]	10	1	6682	GL		
	Depth: MD	353		Plug Back T.D.:		353		_ 20.	Depth Bi	idge Pl				
21 71	TVD	Machania	al I aga Buy (S		TVD			المراول ا		· · ·	TV			
21. Type I	Electric & Other	Mechanic	ai Logs Run (3	ouomit copy of e	acn)			,	as well con as DST ru		X № [] X № []		ubmit analysis) ubmit report	
none	_		_						rectional S	-	X _N o	<u> </u>	es (Submit copy	0
23. Casing	and Liner Reco	ord (Repor	t all strings set	in well)										
Hole Size	Size/Grade	Wt.(#ft.)	Top (MD)	Bottom (MD)	Stage Cemer Depth	nter	No.of Sk Type of C		Slurry (BE		Cement To	p*	Amount Po	alled
12-1/4"	6-1/4"	32.3#	0	215'			125 s				0			lated
8-3/4"	7"	23#	0	3332'	 		<u>515 s</u>				<u> </u>		circu	lated
6-1/4"	5-1/2"	15.5#	3216'	3535			none	9	├—		 		 _	
			+				<u> </u>	·····			+			
24. Tubin	g Record		_ 	·	<u> </u>	<u>_</u>	**		<u> </u>		 			
Size	Depth Set (MD) Pa	cker Depth (MD) Size	Depth Set ((MD)	Packer De	pth (MI) S	ize	Depth Set (MD)	Packer Dept	h (MD)
2-3/8"	3509						<u> </u>						<u>!</u>	
25. Produ	Formation	- I	Тор	Bottom	26. Perfora	tion Reforated I			Size	Т.	No. Holes		Perf. Status	
A) F	ruitland C	oal l	3374'	3465'		74		_	0.45	+	152		4 JSP	F
B)	14.014.4			0.00	340		3404		<u> </u>		202			
C)					1		3465							
D)				<u> </u>										
27. Acid,	Fracture, Treatr	nent, Cem	ent Squeeze, E	tc.										
	Depth Interval				·········	_	Amount and	Type of	Maternal					·
														
												, ,		
28. Produc	tion - Interval A													
Date First Produced	Test Date 09/22/03	Hours Tested /Gy	Test Production	Oil Gas BBL MCF	Water BBL 0	Oil Gravit	у	Gas Gravity		Producti	on Method	pump [*]	ing	_
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil Gas BBL MCF 0 140	Water BBL	Gas: C Ratio)d	Well Status	Shut	In				
28a. Produ	ction-Interval B			<u> </u>	<u> </u>	<u> </u>			SHUL .		CCEPTER	EUE	RECOR	
Date First Produced	Test Date	Hours Tested	Test Production	Oil Gas BBL MCF	Water	Oil		Gas			on Method	بالبت	LUCLUKE	
			Production		BBL	Gravit		Gravity			SED	2 9	2002	
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr.	Oil Gas BBL MCF	Water BBL	Gas: C Ratio	भ्रा	Well Status					2003	1
(See Instruction	SI ns and spaces for add	litional data o	n reverse side)			L					FARMINGTO	in the	LD UFFICE	 :
						VMO	CD				.——			

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						<u>R</u>	Wasa 32 \ 20 22						
28b.Product	ion - Interv	al C				×	and a factor of the						
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method	•.			
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status					
28c. Produc	tion-Interva	d D - Co						····					
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity					
Choke Size Flwg. SI Tog. Press. Csg. 24 Hr. Oil BBL Gas Water BBL Gas: Oil Ratio Well Status													
29. Disposit	tion of Gas (S	Sold, used fo	r fuel, vented, e	tc.)		to be	sold			<u> </u>			
30. Summe	ary of Porou	ıs Zones (In	clude Aquifers)	•				31. Fo	rmation (Log) Markers				
tests,	all importar including d res and reco	lepth interv	porosity and coal tested, cush	ontents thion used	nereof: Co	ored interv ol open,	als and all drill- flowing and sh	stem ut-in					
Forma	ation	Тор	Bottom		Descr	riptions, Co	ontents, etc.		Name	Top Meas.Depth			
								Nacin	niento	1427 est			
•								Ojo A	N3 amo	2717 est			
								Kirt1	and	2832 est			
								Fruit	: 1 and	3252 est			
	1			1				Top (Coal	3374			
								Base	Coal	3465			
		•						Picti	ured Cliffs	3468			
				İ									
	Ì		Ì							}			
	ļ												
	Ī												
								İ	•				
32. Additio	onal remark	s (include p	ugging procedu	ге):									
33. Circle	enclosed att	achments:											
			(1 full set req'd)	. 2	. Geologic	Report	3. DST Repo	rt 4. Direct	ional Survey				
5. Sund	lry Notice fo	or plugging	and cement veri	fication	6. Core A	analysis	7. Other		_				
34. I hereb	y certify tha	at the forego	ing and attache	d informa	ition is con	nplete and	correct as deter	mined from all a	vailable records (see attached	instructions)*			
Name (p	olease print)	Vicki	Donaghey					Title Prod	uction Assistant				
Signatur	us 16,	xi	Dona	dx	W			Date <u>09/2</u>	3/03				
					~								

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED /
OMB NO. 1004-013/
Expires: November 30/2000

5. Lease Serial No.

SUNDRY NOTICES A		,		FD	NM-4461 6. If Indian, Allot	tee or Tribe Name	
Do not use this form for pr abandoned well. Use Form			als.	X 10: 4			
SUBMIT IN TRIPLICATE - Of	ther Instructions				7. If Unit or CA/A	Agreement, Name	and/or N
1. Type of Well Oil Well X Gas Well Other		_		,	8. Well Name and Elk Horn	I No. 100	
2. Name of Operator ENERGEN RESOURCES CORPORATION					9. API Well No.		
3a. Address			(include area cod	e)	30-039-27337		· ———
2198 Bloomfield Highway. Farmington. 4. Location of Well (Footage, Sec., T., R., M., or Survey De.		(505)	325-6800		10. Field and Poo Basin Fruitl		\rea
725' FSL, 800' FWL, Sec. 29, T32N, R5	- '						
					11. County or Pa	-	
12. CHECK APPROPRIATE E	POY/ES) TO IND	NOATE MAT	UDE OF NOTI	DE DED	Rio Arriba	NM NM	
	SOX(ES) TO IND	ICATE NATI			OKI, OKOTHE	KUAIA	
TYPE OF SUBMISSION			TYPE OF	ACTION		-	
Notice of Intent	Acidize	Deepen		Production	(Start/Resume)	Water Shut-Off	
X Subsequent Report	Alter Casing	Fracture	Treat	Reclamatio	n [_	Well Integrity	
X Smoodern report	Casing Repair	=	onstruction	Recomplet	_	Other set c	<u>asing</u>
Final Abandonment Notice	Change Plans		d Abandon		ly Abandon		
	Convert to Injection	on Plug Ba	ck	Water Disp	osal		
testing has been completed. Final Abandonment No determined that the final site is ready for final inspection of the state	onices shall be filed on ion.) an 7 jts. 5-1/2						rator has
					COT 2003		
I hereby certify that the foregoing is true and correct Name (Printed/Typed) Vicki Donaghey		Title	Production	Assist	ant		
Vicki Domokay		Date	09/24/03		ACCEPTED F	OR RECORK	
C) THIS	SPACE FOR FED	ERAL OR S	TATE OFFICE	USE			!
Approved by		Title			SF. H Dete	9 2003	
Conditions of approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to t which would entitle the applicant to conduct operations the	those rights in the sub	varrant or Offici	ie .		FARMINUI UN I	,	1
which would entitle the applicant to conduct operations the	a coll.	1				<u> </u>	

Fr m 3 60-3 (agust 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	LOK REENTER OVEL	5. Lease Seria NM- 4461	
a Type of Work X DRILL REENT	TER 2003 JUN - 3 TAM !!:	6. If Indian, A	llotee or Tribe Name
b. Type of Well Oil Well X Gas Well Other	X Single Zone Multiple Zon	e 7. Unit or CA	Agreement Name and No.
Name of Operator	070 raimington, 1	8. Lease Nam	e and Well No.
Energen Resources Corporation	3b. Phone No. (include area co	Elk Hor	
. Address 2198 Bloomfield Highway Farmington, New Mexico		y API Well N	
Location of Well (Report location clearly and in accordance with any St			039 27449 ool, or Exploratory
At surface 1400' FNL, 685' FWL - SWNW			ruitland Coal
•	The walk of the same of	11. Sec., T., R	., M., or Blk. and Survey or A
At proposed prod. zone	C C C CO3	Sec. 29	, T32N, R05W, N.M.P
Distance in miles and direction from nearest town or post office*		12. County or	
16 miles northeast of	Goberhador	Rio Arrib	a NM
5. Distance from proposed*	16. No of Acres in lease	17. Spacing Unit ded	icated to this well
location to nearest property or lease line, ft. 685'	207000000000000000000000000000000000000	ľ	
(Also to nearest drg. unit line, if any)	640.0		320/W2
3. Distance from proposed location*	19. Proposed Depth	20.BLM/BIA Bond	No. on file
to nearest well, drilling, completed,			
applied for, on this lease, ft. 2500'	3696		
A Planeting (Charmanhathan DE VDD DT CI ata	22. Approximate date work will star	1 22 Ration	ated duration
1. Elevations (Show whether DF, KDB, RT, GL, etc.	,	n. 23. Estun	-
6876'GL	August 2003	L	5 days
	24. Attachments		
he following, completed in accordance with the requirements of Onshore O	il and Gas Order No. 1, shall be attached	to this form:	
. Well plat certified by a registered surveyor.	4. Bond to cover the operat	ions unless covered by	an existing bond on file (see
. A Drilling Plan	Item 20 above).	•	,
. A Surface Use Plan (if the location is on National Forest System Lands,			
SUPO shall be filed with the appropriate Forest Service Office).	6. Such other site specific in authorized officer.	formation and/or plan	s as may be required by the
6 5'			Date
5. Signuature	Name (Printed/Typed)		
Now Blokan	Don Graham		5/30/03
Fitle Fitle			
Production Superintendent			
pproved by (Signautre) Original Signed: Stephen Mason	Name (Printed/Typed)		Date AUG 0 8 200
Title Title	Office	· · · · · · · · · · · · · · · · · · ·	
application approval does not warrant or certify that the applicant holds keen the onduct operations thereon. Conditions of approval, if any, are attached.	egal or equitable title to those rights in	the subject lease which	ch would entitle the applicant
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr tates any false, fictitious or fraudulent statements or representations as to a	ime for any person knowlingly and willfi	ally to make to any de	partment or agency of the Uni

DESILING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

*(Instructions on Reverse)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

District 1 PO 80x 1980, Hobbs, NM 88241-1980

Po Drawer DD, Artesia, NM 68211-0719

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	LOCAT:	ION AND A	CREAGE DEDI	CATION PL	_AT		
	API Number			Pool Coc	le		Pool Nam	-		
30-03	39-2	7449	7	71629)	BA	SIN FRUITL	AND CO	DAL	
⁴ Property	Code		1		*Property	Name			*We	11 Number
3256	07				ELK F	IORN			:	100S
'OGRID	No.				*Operator	Name			•E	levation
16292	28		E	ENERGE	N RESOURC	ES CORPORAT	TION			5876 '
					¹⁰ Surface	Location			· /////////// /////////////////////////	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Me	st line	County
Ε	29	32N	5W		1400	NORTH 685 WEST RIO ARRIB				
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Me	șt line	County
¹² Dedicated Acres		.0 Acre	s - (W	/2)	²³ Joint or Infill	³⁴ Consolidation Code	²⁵ Order No.	-		
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				277.36		 	I hereby contains	certify decein :	that the i	FICATION of complete and belief
	<u>}</u>			E	•			' . A	6	

Signature Don Graham Printed Name Production Superintendant 685 Title Date SURVEYOR CERTIFICATION 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. 8 5280. Survey Date: APRIL 17, 2003 Signature and Seal of Professional Surveyor SON C. EDWARD SEN MEXIC PESSION ANTESSION MN ,notpnirms 070 203 JUN -3 MI 11: 10 5278.68 Certificate Number

OPERATIONS PLAN

ELEVATION: 6876' GL

WELL NAME: Elk Horn 100S

LOCATION: 1400' FNL, 685' FWL, Section 29, T32N, R5W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal

FORMATION TOPS:

Surface San Jose
Nacimiento 1596
Ojo Alamo 2886
Kirtland 3011
Fruitland 3431

Total Depth

3696

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None Inter TD to total depth: None

Mud Logs:

Intermediate 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 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 ¼"	200'	9 5/8"	32.3#	H-40 - ST&C
8 3/4"	3506	7"	20#	J-55 - ST&C
6 ¼"	3406'-3696'	5 ½"	15.5#	J-55 – LT&C

TUBING PROGRAM:

3500' 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 sks Class B Cement with ¼" flocele/sk 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 bow type centralizers spaced throughout the string.

7" intermediate casing – cement with 445 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ¼# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ¼# flocele/sk. (1001 cu. ft. of slurry, 90% 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. 10 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

5 1/2" Liner - NO CEMENT

OTHER INFORMATION:

- 1) The Basin Fruitland Coal will be completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) If lost circulation is encountered sufficient LCM will be added to the mud system to maintain well control.
- 4) This gas is dedicated.
- 5) Anticipated pore pressure for the Fruitland is 700 psi.

Name of Company	\nearrow	Address
ENERGEN RESOURCES CORPORATION		2198 BLOOMFIELD HWY, FARMINGTON, NM 87401

Lease Name & Number	Unit Letter	Section	Township	Range
ELK HORN #100S	E	29	32N	05W

Pool and Formation	API Number	County
Basin Fruitland Coal (71629)	30-039-27449	Rio Arriba

Depth (Ft.)	<u>Deviation</u> (Degrees)
205	.75
701	.75
1201	1.50
1700	1.25
2196	1.25
2692	1.00
3220	1.25



I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer for Energen Resources Corporation, am authorized by said Company to make this report; and that this report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to before me this 3rd day of December, 2003.

Notary Public in and for San Juan County, New Mexico. My commission expires: September 18th, 2004.

District I 1625 N. French Dr., H. bbs, NM 88240 District II 811 South First, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

District III

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-104 Revised March 25, 1999

Submit to Appropriate District Office 5 Copies

AMENDED REPORT

District IV 2040 South Pacheco, Santa Fe, NM, 87505 REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT ² OGRID Number Operator name and Address **Energen Resources Corporation** 162928 3 Reason for Filing Code 2198 Bloomfield Highway Farmington, NM 87401 4 API Number 5 Pool Name 6 Pool Code 30-039-27449 Basin Fruitland Coal 71629 30-0 8 Property Name Well Number Property Code 32567 Elk Horn 100S II. Surface Location UL or lot no. Township Lot. Idn Feet from the North/South Line Feet from the East/West line County Range Section 1400 North Rio Arriba **Bottom Hole Location** North/South Line East/West line Lot. Idn Feet from the Feet from the UL or lot no. Section Township 12 Lse Code 13 Producing Method Code 14 Gas Connection Date 15 C-129 Permit Number 16 C-129 Effective Date 17 C-129 Expiration Date III. Oil and Gas Transporters 20 POD 21 O/G 22 POD ULSTR Location 18 Transporter OGRID 19 Transporter Name and Address and Description Giant Industries 9018 n E-29-T32N-R05W 5764 U.S. Highway 64 Farmington, NM 87401 Williams Field Services Company 25244 G E-29-T32N-R05% P.O. Box 645 Tulsa, OK 74102 DEC 2003 RECEIVED IV. Produced Water 24 POD ULSTR Location and Description Well Completion Data 25 Spud Date 26 Ready Date 27 TD 28 PBTD 29 Perforations DHC, MC 11/20/03 3680' 10/22/03 3680 31 Hole Size 32 Casing & Tubing Size 33 Depth Set 34 Sacks Cement 12-1/4" 9-5/8* 234 250 sks - 352 cu.ft. - circ 8-3/4" 33341 575_sks - 1106 cu.ft. - circ 6-1/4" 5-1/2* 3680' TOL 3225' 2-3/8" 36561 VI. Well Test Data 35 Date New Oil 36 Gas Delivery Date 37 Test Date 38 Test Length Tbg. Pressure Csg. Pressure 12/02/03 12 day 1250 44 Gas 41 Choke Size 42 Oil 45 AOF 43 Water 46 Test Method 362 mcf/d ⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. /2-8-030IL CONSERVATION DIVISION Approved by: Signature: DEPUTY OIL & GAS INSPECTOR, DIST. 199 Printed name Title: Vicki Donaghey Approval Date: DEC - 8 2003 Production Assistant Date: Phone: 505-325-6800 12/03/03 48 If this is a change of operator fill in the OGRID number and name of the previous operator Previous Operator Signature Printed Name Title Date

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT				vember 30, 2000
SUNDRY Do not use thi	NOTICES AND REPO	RTS ON WELLS drill or to re-enter a	in /	5. Lease Serial No. NMNM4461 6. If Indian, Allottee o	- Taka Nama
abandoned we	II. Use form 3160-3 (AP	'D) for such proposa	ls.	o. Il indian, Anotice o	i Tribe Name
SUBMIT IN TRI	PLICATE - Other instruc	ctions on reverse sid	de.	7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well ☐ Oil Well Gas Well ☐ Oth	ner			8. Well Name and No. ELK HORN 100S	· · · · · · · · · · · · · · · · · · ·
Name of Operator ENERGEN RESOURCES CO	Contact:	VICKI DONAGHEY E-Mail: vdonaghe@ene	ergen.com	9. API Well No. 30-039-27449-0	00-X1
3a. Address 2198 BLOOMFIELD HIGHWA FARMINGTON, NM 87401	Y	3b. Phone No. (include Ph: 505.325.6800 Fx: 505.326.6112		10. Field and Pool, or BASIN FRUITL	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Descriptio	n)		11. County or Parish,	and State
Sec 29 T32N R5W SWNW 14	100FNL 685FWL			RIO ARRIBA CO	OUNTY, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE NATU	RE OF NOTICE, I	REPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
Notice of Intent	☐ Acidize	□ Deepen	□ Produ	ction (Start/Resume)	☐ Water Shut-Off
. —	☐ Alter Casing	Fracture Tre	at 🔲 Recla	mation	☐ Well Integrity
Subsequent Report	☐ Casing Repair	□ New Constru	iction Recor	nplete	DO Other Well Spud
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Ab	andon 🔲 Temp	orarily Abandon	Well Spud
	Convert to Injection	☐ Plug Back	□ Water	Disposal	
Attach the Bond under which the wo following completion of the involved testing has been completed. Final Aldetermined that the site is ready for 10/22/03 Spud @ 12:30 am of ST&C casing, set @ 234'. Rt (352 cu.ft.). Plug down @ 5:4 Services. NU BOP. Test cas	operations. If the operation robandonment Notices shall be final inspection.) on 10/22/03. Drill 12-1/4' J BJ Services. Cement v 5 pm on 10/22/03. Circu	esults in a multiple comple iled only after all requirement ' hole to 245'. Ran 5 j vith 250 sks Class C, ulate 8 bbls cement to	tion or recompletion in ents, including reclamat jts. 9-5/8" 32.3# H- 2% CaCl2. 1/4#/sk	a new interval, a Form 316 iton, have been completed,	60-4 shall be filed once
					12 22 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
14. Thereby certify that the foregoing is	Electronic Submission	DURCES CORPORATIO	N. sent to the Farm	ington	
Name (Printed/Typed) VICKI DO		Title	PRODUCTION AS		
Signature (Electronic	Submission)	Date	10/29/2003		
	THIS SPACE F	OR FEDERAL OR	STATE OFFICE	JSE	
Approved By ACCEPT	ED	TitlePi	DRIENNE GARCIA ETROLEUM ENGII		Date 12/08/2003
Conditions of approval, if any, are attache ertify that the applicant holds legal or eq which would entitle the applicant to cond	uitable title to those rights in th	ne subject lease	Farmington		

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

-3.	Lease Serial No.
	NMNM4461

Do not use thi	NOTICES AND REPO			5. Lease Serial No. NMNM4461 6. If Indian, Allottee or	Tribe Name
		20,	7.7		
	PLICATE - Other instruc	ctions on reverse side.) Ja. 19	7. If Unit or CA/Agree	ment, Name and/or No.
I. Type of Well ☐ Oil Well ☐ Gas Well ☐ Oth	ner	View in the second		8. Well Name and No. ELK HORN 100S	
Name of Operator ENERGEN RESOURCES CO	RPORATION Contact:	VICKI DONAGHEY/ Chicom. E-Mail: vdonaghe@energen.com.	(California)	9. API Well No. 30-039-27449-0	0-X1
3a. Address 2198 BLOOMFIELD HIGHWA FARMINGTON, NM 87401	Υ	3b. Phone No. (include area code) Ph: 505.325.6800 Ext: 238 Fx: 505.326.6112		10. Field and Pool, or BASIN FRUITLA	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Descriptio	n)		11. County or Parish, a	and State
Sec 29 T32N R5W SWNW 14	100FNL 685FWL			RIO ARRIBA CO	DUNTY, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE NATURE OF N	IOTICE, RE	PORT, OR OTHER	R DATA
TYPE OF SUBMISSION		TYPE OF	ACTION		
Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for 10/29/03 Ran 76 jts. 7" 23# J premium lite, 3% CaCl2, 1/4# followed by 100 sks Type III.	ally or recomplete horizontally, it will be performed or provide to operations. If the operation is bandonment Notices shall be final inspection.) I-55 LT&C casing, set 33: I/sk celloflake, 10#/sk LC 1% CaCl2, 1/4#/sk cellofleulated 10 bbls cement to		Reclama Recomp Recomp Water D Gate of any pred and true vet. Required sumpletion in a ring reclamation with 475 skim metasilicat.). Plug dov	lete arily Abandon isposal roposed work and approviction and approviction depths of all pertinosequent reports shall be not interval, a Form 316 n, have been completed, S ate	ent markers and zones. filed within 30 days 0-4 shall be filed once
14. I hereby certify that the foregoing is Com Name (Printed/Typed) VICKI DO	Electronic Submission : For ENERGEN RESC mitted to AFMSS for proce	#24648 verified by the BLM Well DURCES CORPORATION, sent to ssing by ADR ENNE GARCIA on Title PRODU	o the Farmin	gton 04AXG1833SE)	
Signature (Electronic	Submission)	Date 10/30/20	202		
Organization (Electronic		Date 10/30/20 OR FEDERAL OR STATE (SE .	
Approved By ACCEPT	ED	ADRIENNE TitlePETROLE		ER	Date 12/08/2003
Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to condition	uitable title to those rights in th		ton		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

Office Farmington

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals. FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

Expires: November 30, 2000	
5. Lease Serial No. NMNM4461	•

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIF	PLICATE - Other instruc	tions on reve	erse side.		7. If Unit or CA/Agreen	nent, Name and/or No.		
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Oth	er			8. Well Name and No. ELK HORN 100S				
2. Name of Operator ENERGEN RESOURCES CO		SHEY ne@energen.com	<u> </u>	9. API Well No. 30-039-27449-00	-X1			
		_	•					
3a. Address 2198 BLOOMFIELD HIGHWA FARMINGTON, NM 87401	Y	3b. Phone No. Ph: 505.325 Fx: 505.326	(include area code 5.6800 Ext: 238 .6112) i	10. Field and Pool, or Exploratory BASIN FRUITLAND COAL			
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description)			11. County or Parish, as	nd State		
Sec 29 T32N R5W SWNW 14	00FNL 685FWL				RIO ARRIBA COUNTY, NM			
12. CHECK APPR	COPRIATE BOX(ES) TO	INDICATE	NATURE OF	NOTICE, R	EPORT, OR OTHER	DATA		
TYPE OF SUBMISSION			TYPE O	F ACTION				
Notice of Intent	□ Acidize	□ Deep	en	Product	ion (Start/Resume)	☐ Water Shut-Off		
_	Alter Casing	□ Fract	ure Treat	Reclam	ation	☐ Well Integrity		
Subsequent Report	Casing Repair	□ New	Construction	Recomp	olete	Other Drilling Operations		
☐ Final Abandonment Notice	Change Plans	Plug	and Abandon	Tempor	rarily Abandon Drilling Operation			
	Convert to Injection	□ Plug	Back	□ Water I	Disposal			
following completion of the involved testing has been completed. Final Ab determined that the site is ready for fit 11/20/03 TD:3680' PBTD:36 TOL:3225'. No coment. Release	andonment Notices shall be file inal inspection.) 680' Ran 10 jts. 5-1/2" 15 ased rig.	ed only after all r	equirements, inclu	ding reclamation				
	Electronic Submission # For ENERGEN RESOInitted to AFMSS for proces	URCES CORP	OŘATION, sent	to the Farmir	ngton			
Name (Printed/Typed) VICKI DOI	<u>.</u>			JCTION AS	•			
					· · · · · · · · · · · · · · · · · · ·			
Signature (Electronic S	Submission)		Date 12/03/2	2003				
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	SE			
Approved By ACCEPT	ED		ADRIENN TitlePETROLE	IE GARCIA UM ENGINI	EER	Date 12/10/2003		
Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to condu-	uitable title to those rights in the uct operations thereon.	subject lease	Office Farming					
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a statements or representations as	crime for any pe	rson knowingly an thin its jurisdiction	d willfully to n	nake to any department or	agency of the United		

Form 34 60-4 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR RURFALLOF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137

WELL COMPLETION OR RECOMPLETION REPORT AND LOG									5. Lease Serial No. NMNM4461							
la. Type of	Well 🗖	Oil Well	Gas \	Well	☐ Dry		ther						Indian, Allo	ttee or	Tribe Nan	ne
	Completion	⊠ N		□ Worl				□ Plug	Back	Q 10 1	Resvr.	7. Ui	nit or CA A	greeme	nt Name a	nd No.
2. Name of ENERG	Operator SEN RESOL	· · ·			Con	tact: VI E-	CKI DON Mail: vdo	NAGHE onaghe	generge	n-com	A SP		ase Name a LK HORN		l No.	
3. Address	2198 BLO FARMING	OMFIELI	HIGHWA	Υ			3a. P	hone No	(includ 6800 E	e area co	(e) _{7,9}	9. VA	PI Well No.	30-03	9-27449-(00-S1
4. Location	of Well (Rep	ort location	on clearly an	d in acco	ordance	vith Fed				AL. 200		10:11	ield and Po	ol. or E	xploratory	
/ At surfac			5W Mer NM IL 685FWL	IP					- Ü				ASIN FRU			Survey
At top p	rod interval r	eported be	elow					1			~ ()	₩ 0	r Area Sec	: 29 T 3	32N R5W	Mer NMF
At total	depth									2/232			County or Pa NO ARRIBA		NM	1
14. Date Sp 10/22/2				ate T.D. /20/200	Reached 3		1	6. Date D & 11/20	Complet A D/2003	ed Ready to	Prod.	17. I	Elevations (1 687	OF, KB '6 GL	RT, GL)	*
18. Total D	epth:	MD TVD	3680		19. Piu	Back 1	T.D.:	MD TVD		80	20. De	pth Bri	dge Plug Se	1	MD CVD	
21. Type El NONE	ectric & Oth	er Mechai	nical Logs R	un (Subi	mit copy	of each)	ı			Wa	is well core is DST run? ectional Su	d? ? rvey?	No No No	Yes	(Submit at (Submit at (Submit at	nalysis)
23. Casing ar	nd Liner Reco	ord <i>(Repo</i>	rt all strings	set in w												
Hole Size	Size/G	rade	Wt. (#/ft.)	/t. (#/ft.) Top (MD)		1 -		ementer pth			, ,		i Cement ione		Amoun	t Pulled
12.250	ļ	25 H-40	32.0		0	234			250							
8.750 6.250		000 J-55 500 J-55	23.0 16.0	3	0 225	3334 3680			<u> </u>		0		<u> </u>			
				<u> </u>			1									
													j I			
24. Tubing	Record			L			j				<u> </u>		<u> </u>			
	Depth Set (M	(D) P	acker Depth	(MD)	Size	Dep	th Set (MI	D) P	acker De	pth (MD) Size	De	pth Set (Ml	D) 1	Packer De	pth (MD)
2.375 25. Produci		3656				1 26	. Perforati	ion Reco	rd							
	ormation		Тор		Botton			rforated			Size	<u> </u>	No. Holes		Perf. Sta	tus
	RUITLAND (COAL				335			3548 TO 363		5 0.340		180 4 JSI			
B)																
C)												-				
	racture, Treat	ment, Cer	nent Squeez	e, Etc.							<u>. </u>					
1	Depth Interva	al		•				Aı	mount an	d Type o	f Material					
												,				
28. Product	ion - Interval	Α														
Date First	Test	Hours	Test	Oil	Gas		Water	Oil Gr		Ga		Product	ion Method		· · · · · · · · · · · · · · · · · · ·	
Produced 11/20/2003	Date 12/02/2003	Tested 288	Production	BBL 0.0	MCF 3	52.0	BBL 0.0	Corr.	API	Gn	wity		FLOV	/S FRC	M WELL	
Choke Size	Tbg. Press. Flwg. SI 90	Csg. Press. 1250.0	24 Hr. Rate	Oil BBL O	Gas MCF	362	Water BBL 0	Gas:O Ratio	il	We	Il Status GSI			•		
28a. Produc	tion - Interva	al B		L	. — I								· · · · · · · · · · · · · · · · · · ·			
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Water BBL	Oil Gr Corr.		Ga Gr	vity	ACC	EPTED	FOR	RECOR	L
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF		Water BBL	Gas: O Ratio	il	We	ll Status		טבט וו	6 21	003	
(See Instruction ELECTRON	NIC SUBMI	SSION #2	ditional data 25688 VERI VISED **	FIED B	YTHE	BLM W	ELL INF	ORMA EVISI	TION S	YSTEM BLM R	EVISED	FAR	lakaran		UFFICE	<u>.</u>

•*													
28b. Prod	luction - Interv	al C											
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gra	vity	Production Method			
Choke, Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Wei	ll Status	Status			
28c. Prod	uction - Interv	al D	<u> </u>	1									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gra	s avity	Production Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Wei	Well Status				
29. Dispo	osition of Gas(Sold, used j	or fuel, ven	ted, etc.)									
30. Summ Show tests,	nary of Porous	zones of po	rosity and c	ontents then	eof: Cored ne tool open	intervals an , flowing ar	d all drill-stem nd shut-in pressur	res	31. For	mation (Log) Markers			
-	Formation		Тор	Bottom		Descripti	ions, Contents, et	tc.		Name Top Meas. Dep			
SAN JOSE 0 NACIMIENTO 1602 OJO ALAMO 2893				1602 2893 2007					FRUITLAND 3343 PICTURED CLIFFS 3638				
19 Additi	tional remarks	(include p	Ugging avec	edure).									
NO F	e enclosed atta	OVIDED	ugging proc	edure).									
1. El 5. St	lectrical/Mecha undry Notice fo	nnical Logs or plugging	and cement	verification		Geologi Core A	nalysis		3. DST Re 7 Other:		tional Survey		
	eby certify that	Co	Elect Fo ommitted to	ronic Subn r ENERGE	nission #25 N RESOU	688 Verifie RCES CO	ed by the BLM V RPORATION, S IENNE GARCI	Well Infor sent to the A on 12/1	rmation Sy e Farming	ton AXG1919SE)	ctions):		
Signa	ature	(Electron	ic Submiss	ion)			Date	12/03/200	03				
Title 18 U	U.S.C. Section nited States any	1001 and false, ficti	Title 43 U.S tious or frac	.C. Section Julent staten	1212, make nents or rep	it a crime i	or any person kn s as to any matter	owingly a	nd willfully s jurisdictio	y to make to any department on.	or agency		