Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUNDRY NOTICES AND REPORTS ON WELLS

BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 200

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	If Indi	an, Al	lottee o	r Tribe	Name

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE -	Other instruction	s on reverse side	'ED	7. If Unit or CA/A	Agreement, Name and/or No		
1. Type of Well Oil Well X Gas Well Other		DEC 21200)7	8. Well Name and	No. 7		
Name of Operator ENERGEN RESOURCES CORPORATION		Bureau of Land Man	agement				
3a Address		T	3b. Phone No. (include area code)		9. API Well No. 30-039-23555		
2010 Afton Place, Farmington, NM	87401	505.325.6800		10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey				Basin Fruitl			
1650' FNL, 790' FWL, Sec. 12, T25N, (E0 SW/NW	, R3W, N.M.P.M.			11. County or Pa	ŕ		
12. CHECK APPROPRIATE	BOX(ES) TO INI	DICATE NATURE OF	NOTICE, REP	<u> Rio Arriba</u> ORT, OR OTHE	ER DATA		
TYPE OF SUBMISSION		TY	PE OF ACTION				
X Notice of Intent	Acidize Alter Casing	Deepen Fracture Treat	Production	n (Start/Resume)	Water Shut-Off Well Integrity		
Subsequent Report	Casing Repair	New Construction	Recomplet	-	Other		
	Change Plans	X Plug and Abandon		ily Abandon			
Final Abandonment Notice	Convert to Injects		Water Dis	_			
Energen Resources intends to plug	g and abandon th	ne McCroden #7 acox	ording to the		ocedure.) JAN 9'08		
				oil (ONS. DIV.		
				D	IST. 3		
14. I hereby certify that the foregoing is true and correct Name (Printed Typed)		Title					
Vicki Donaghey			ulatory Anal	yst			
Ticki temporary		Date 12/19					
	S SPACE FOR FEI	DERAL OR STATE OF	FICE USE				
Approved by Original Signed: Stepher	n Mason	Title		Date	JAN 0-7-2028		
Conditions of approval, if any, are attached. Approval certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations to	those rights in the sub	varrant or Office oject lease			See 14.1 Y		

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.

PLUG AND ABANDONMENT PROCDURE

November 30, 2007

McCroden #7

Basin Fruitland Coal 1650' FNL & 790' FEL, Section 12, T25N, R3W Rio Arriba County, New Mexico, API #30-039-23555

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

All cement will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield.

- 1. Project will require a Pit Permit (C103) from the NMOCD.
- Install and test location rig anchors. Prepare and line a waste fluid pit. Comply with all BLM, NMOCD, and Energen safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary.
- 3. PU on tubing and release pump. Reseat pump. Pressure test tubing to 1000 PSI. TOH and LD rods and pump. TOH and tally 2.375" tubing, total 3854'. LD tubing and PU a workstring. NOTE: per discussion with Steve Mason, BLM, on 12/11/07 and 12/12/07, drill out CIBP set at 3870' (2004) but leave CIBP set at 4000' (1999) and spot cement across top of CIBP. This will issue proper control over the Mesaverde zone. PU drill bit, collars and TIH. Tag existing CIBP (set 2004) at 3870'. Drill out CIBP. Continue to TIH with tubing and tag existing CIBP (set 1999) at 4000'. Circulate well clean.
- 4. Plug #1 (Mesaverde interval, Pictured Cliffs perforations, top, Fruitland Coal perforations and top, Kirtland and Ojo Alamo tops, 4000' 3525'): Tag existing CIBP at 4000 (1999)'. Mix and pump 65 sxs Type III cement, cover the CIBP at 4000' to further isolate the Mesaverde interval and fill the Pictured Cliffs and Fruitland Coal perforations through the Ojo Alamo top. PUH and WOC. TiH and tag cement. Cement should be at 3525' or higher. If necessary re-spot Plug #1. PUH.

2192' 2092'

- 5. **Plug #2 (Nacimiento top, 1795' 1695'):** Mix 11 sxs Type III cement and spot a plug inside the casing to cover the Nacimiento top. PUH to 363'.
- 6. Plug #3 (8.625" Surface Casing, 363' Surface): Attempt to pressure test the bradenhead annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 30 sxs Type III cement and spot a balanced plug from 363' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing and the bradenhead annulus.
- 7. ND BOP and cut off casing below surface casing flange. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

McCroden #7

Current

Basin Fruitland Coal

1650' FNL & 790' FEL, Section 12, T-25-N, R-3-W Rio Arriba County, NM / API #30-039-23555

Today's Date: 11/30/07

Spud: 11/11/84 DK Comp: 2/9/85 PC Comp: 10/18/99 FtC Comp: 11/28/04 Elevation: 7345' GI

12.25" Hole

Nacımiento @ 1745'

Ojo Alamo @ 3575'

Kirtland @ 3630'

Fruitland @ 3650'

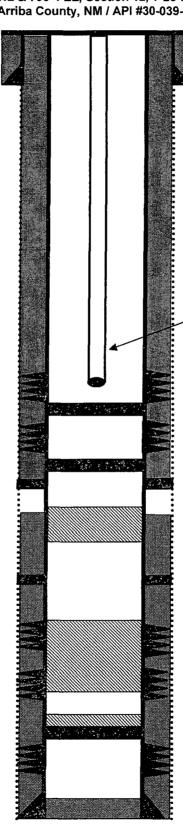
Pictured Cliffs @ 3842'

Mesaverde @ 5520'

Gallup @ 6770'

Dakota @ 8085'

7.875" Hole



Top of Cmt @ Surface, circulated

8.625" 24# K-55 Casing set @ 313' 295 cf cement, circulated to surface

Well History

Aug '99: Plug back well to 4000'.

Oct '99: Re-complete as a PC well.

Nov '04: Plug back to 3870' and re-

complete as a FtC well.

2.375" tubing at 3854' (rods and pump)

Fruitland Coal Perforations. 3752' – 3840'

Set CIBP @ 3870' (2004)

Pictured Cliffs Perforations: 3878' – 3898'

Set CIBP @ 4000' (1999)

DV Tool @ 4007' Stage 3. Cemented with 1697 cf

Top of Cmt unknown, lost circ.

Spot 8 sxs (1999)

DV Tool @ 6350' Stage 2: Cemented with 1517 cf (lost circulation at 75 bbls)

Top of Cmt @ 6100' (CBL)

Spot 33 sxs (1999)

Gallup Perforations 7103' – 7696'

Greenhorn Perforations: 7992' – 8044'

Set CIBP @ 7900' and capped with 8 sxs (1999)

Dakota Perforations: 8100' – 8264'

4.5" 11.6#, K-55 Casing @ 8413' Stage #1: Cemented with 1122 cf

TD 8413

McCroden #7 Proposed P&A

Basin Fruitland Coal

1650' FNL & 790' FEL, Section 12, T-25-N, R-3-W Rio Arriba County, NM / API #30-039-23555

Today's Date: 11/30/07

Spud: 11/11/84 DK Comp: 2/9/85 PC Comp: 10/18/99 FtC Comp: 11/28/04 Elevation: 7345' GI

12.25" Hole

Nacimiento @ 1745'

Ojo Alamo @ 3575'

Kirtland @ 3630'

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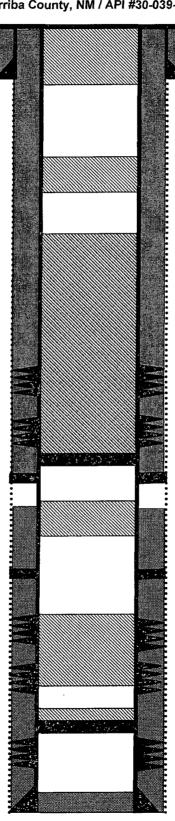
Pictured Cliffs @ 3842'

Mesaverde @ 5520'

Gallup @ 6770'

Dakota @ 8085'

7.875" Hole



Top of Cmt @ Surface, circulated

8.625" 24# K-55 Casing set @ 313' 295 cf cement, circulated to surface

Plug #3: 363' - 0' Type III cement, 30 sxs

Plug #2: 1795' - 1695' Type III cement, 11 sxs

Plug #1: 4000' - 3525' Type III cement, 65 sxs

Fruitland Coal Perforations. 3752' – 3840'

Pictured Cliffs Perforations: 3878' – 3898'

Set CIBP @ 4000' (1999)

DV Tool @ 4007' Stage 3' Cemented with 1697 cf

Top of Cmt unknown, lost circ.

Spot 8 sxs (1999)

DV Tool @ 6350' Stage 2: Cemented with 1517 cf (lost circulation at 75 bbls)

Top of Cmt @ 6100' (CBL)

Spot 33 sxs (1999)

Gallup Perforations: 7103' ~ 7696'

Greenhorn Perforations: 7992' ~ 8044'

Set CIBP @ 7900' and capped with 8 sxs (1999)

Dakota Perforations: 8100' ~ 8264'

4.5" 11.6#, K-55 Casing @ 8413' Stage #1: Cemented with 1122 cf

TD 8413'

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

1235 LA PLATA HIGHWAY FARMINGTON, NEW MEXICO 87401

Attachment to notice of Intention to Abandon:

Re: Permanent Abandonment

Well: 7 McCroden

CONDITIONS OF APPROVAL

- 1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
- 2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
- 3. The following modifications to your plugging program are to be made:
- a) Bring the top of the Pictured Cliffs/Fruitland/Kirtland/Ojo Alamo plug to 3382'.
- b) Place the Nacimiento plug to 2192' 2092'.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.