Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 200

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	/20 -d	3.	

SUNDRY NOTICES AND REPORTS ON WELLS		han 634-20-309				
Do not use this form for proposals to drill or to re-enter an			6. If Indian	, Allottee or Tribe Name		
abandoned w	ell. Use Form 3160 - 3 (A	APD) for such p	proposals.	+NOO	1-6-14-20-5006	
SUBMIT IN TR	IPLICATE- Other instr	ructions on rev	erse side.		r CA/Agreement, Name and/or No.	
1 Type of Well						
Oil Well Gas Well Other				8. Well Name and No.		
2. Name of Operator ENERGEN RESOURCES			PAH#1	9. API Well No.		
3a. Address		3b. Phone No. (include area code)			30-045-24252	
2198 Bloomfield HWY Farmington, NM 87401		505-325-6800	505-325-6800		10. Field and Pool, or Exploratory Area	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)			Duffer Point Gallup/Dakota 11. County or Parish, State			
1,020' FSL, 1,730' FWL Section 6, T25N,R8W, NMPM					·	
				i	an County, New Mexico	
	PPROPRIATE BOX(ES) TO			REPORT, OF	R OTHER DATA	
TYPE OF SUBMISSION		T	YPE OF ACTION			
✓ Notice of Intent	Acidize	Deepen _	Production (Start/Resume)	Water Shut-Off	
	Alter Casing Casing Repair	Fracture Treat New Constructio	Reclamation Recomplete		Well Integrity Other	
Subsequent Report	✓ Change Plans	Plug and Abandon	· ·	Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back	Water Dispos	al		
testing has been completed. Fi determined that the site is read On 9/27/2005 Energen sul to repair and we are subn	nal Abandonment Notices shall be y for final inspection.) comitted a Sundry to repair the hitting the attached plugging p	casing on the above rocedure and diagr	e listed well - followin ams. We will proceed	nmation, have bee	h analysis the well is un-economic	
14. Thereby certify that the fore Name (Printed/Typed)	egoing is true and correct					
Patricio W. San	chez	Title	District Engineer			
Signature	to Marie	Date	Nov. 3,	7000		
	THIS SPACE FOR	FEDERAL OR	-			
Approved by	al Signed: Stephen Mas		Title		Date NOV 1 6 2005	
Conditions of approval, if any, are certify that the applicant holds legs which would entitle the applicant t	al or equitable title to those rights in conduct operations thereon.	n the subject lease	Office			
Title 18 U.S.C. Section 1001 and Tit	te 43 U.S.C. Section 1212, make it a	a crime for any person	n knowingly and willful	ly to make to an	y department or agency of the United	

(Instructions on page 2)

PLUG AND ABANDONMENT PROCDURE

November 1, 2005

Pah #1

Basin Dakota 1020' FSL & 1730' FWL, SW, Section 6, T25N, R8W San Juan County, New Mexico, API #30-045-24252

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.

Cement will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield or Class B.

- Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, 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.
- 2. PU on tubing and release pump. Re-seat pump. Pressure test tubing to 1000#. Release pump and TOH with rods and pump. ND wellhead and NU BOP. Test BOP. TOH and tally 2.375" tubing, total 6501', SN at 6471'. If necessary, LD tubing and use a workstring.
- 3. Plug #1 (Dakota perforations and top, 6237' 6137'): TIH and set 4.5" CR at 6237'. Load casing with water and circulate well clean. Pressure test casing to 800#. *If casing does not test, then spot or tag subsequent plugs as appropriate*. Mix 11 sxs Type III and spot a balanced plug inside casing above CR to isolate the Dakota perforations. PUH to 5455'.
- 4. Plug #2 (Gallup top, 5455' 5355'): Mix 11 sxs cement and spot a balanced plug inside casing to cover the Gallup top. PUH with tubing to 3540'.

3510 3410

5. Plug #3 (Mesaverde top, 3540' - 3440'): Mix 11 sxs cement and spot a balanced plug inside casing to cover the Mesaverde top. TOH with tubing.

6. Plug #4 (Chacra top, 2800' – 2700'): Perforate 3 squeeze holes at 2800'. Attempt to establish rate into squeeze holes if the casing pressure tested prior to perforating. Set 4.5" cement retainer at 2750'. Establish rate into squeeze holes. Mix and pump 46 sxs cement, squeeze 35 sxs outside the casing and leave 11 sxs inside casing to cover Chacra top. PUH to 1950'.

Plug #5 (Pictured Cliffs and Fruitland tops, 1950' – 1660'): Mix-21 sxs cement and spot a
balanced plug inside casing to cover Pictured Cliffs and Fruitland tops. PUH with tubing to 1300'.

8. Plug #6 (Kirtland and Ojo Alamo tops, 1300' – 995'): Perforate 3 squeeze holes at 1300'. Attempt to establish rate into squeeze holes if the casing pressure tested prior to perforating. Set 4.5" cement retainer at 1250'. Establish rate into squeeze holes. Mix and pump 130 sxs cement, squeeze 106 sxs outside the casing and leave 24 sxs inside casing to cover through the Ojo Alamo top. TOH and LD tubing.

- 9. Plug #7 (8.625" Surface casing, 263' Surface): Perforate 3 squeeze holes at 263'. Establish circulation out the bradenhead valve with water. Mix and pump approximately 80 sxs cement down the 4.5" casing to circulate good cement out bradenhead valve. Shut well in and WOC.
- 10. 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.

Pah #1

Current

Basin Dakota

1020' FSL & 1730' FWL, Section 6, T-25-N, R-8-W San Juan County, NM / API #30-045-24252

Today's Date: 11/01/05 8.625" 24# K-55 Casing set @ 213' 165 cf cement, circulated to surface Spud: 11/23/80 Comp: 3/25/81 12.25" Hole Elevation: 6340' GL 6351' KB **Well History** Feb '98: Bradenhead test; 480# tubing and 520# casing. Good test, no problems. Ojo Alamo @ 1045' *est Oct '04: Change out 1 joint tubing; run rods and pump. Land 208 joints 2-3/8" tubing at 6501' with SN at 6471'. Kirtland @ 1250' *est Top of Cmt @ 1450' (TS) Fruitland @ 1710' *est Pictured Cliffs @ 1900' *est DV Tool @ 2332' Cemented with 597 cf 2.375" tubing at 6501' (208 joints, SN at 6471', rods and pump) Chacra @ 2750' *est Top of Cmt @ 3093' (Calc, 75%) Mesaverde @ 3490' *est DV Tool @ 4841' Cemented with 531 cf Top of Cmt @ 5318' (Calc, 75%) Gallup @ 5405' Dakota Perforations: Dakota @ 6358' 6287' - 6507' 7.875" Hole 4.5" 10.5#, K-55 Casing @ 6596' Cemented with 388 cf

> TD 7750' PBTD 6650'

Pah #1

Proposed P&A Basin Dakota

1020' FSL & 1730' FWL, Section 6, T-25-N, R-8-W San Juan County, NM / API #30-045-24252

Today's Date: 11/01/05 Spud: 11/23/80 Comp: 3/25/81 12.25" Hole Elevation: 6340' GL 6351' KB Ojo Alamo @ 1045' *est Kirtland @ 1250' *est Fruitland @ 1710' *est Pictured Cliffs @ 1900' *est Chacra @ 2750' *est Mesaverde @ 3490' *est Gallup @ 5405' Dakota @ 6358' 7.875" Hole

> TD 7750' PBTD 6650'

8.625" 24# K-55 Casing set @ 213' 165 cf cement, circulated to surface

Perforate @ 263'

Plug #7: 263' - 0' Type III Cement, 80 sxs

Cmt Retainer @ 1250'

Plug #6: 1300' - 995' Type III Cement, 130 sxs: 106 sxs outside casing And 24 sxs inside.

Perforate @ 1300'

Top of Cmt @ 1450' (TS)

Plug #5: 1950' - 1660' Type III Cement, 21 sxs

DV Tool @ 2332' Cemented with 597 cf

Cmt Retainer @ 2750'

Plug #4: 2800' - 2700'

Type III Cement, 46 sxs: 35 outside casing

and 11 inside.

Perforate @ 2800'

Top of Cmt @ 3093' (Calc, 75%)

Pług #3: 3540' – 3440'

Type III Cement, 11 sxs

DV Tool @ 4841' Cemented with 531 cf

TOC @ 5318' (Calc, 75%)

Plug #2: 5455' - 5355'

Type III Cement, 11 sxs

Plug #1: 6237' - 6137'

Set Cmt Retainer @ 6237'

Type III Cement, 11 sxs

Dakota Perforations: 6287' – 6507'

4.5" 10.5#, K-55 Casing @ 6596' Cemented with 388 cf