

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

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 page 2

Farmington Field Office
Bureau of Land Management1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ENERGEN RESOURCES CORPORATION

3a. Address

2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

(505) 325-6800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

495' FSL 495' FWL, Sec. 34, T29N, R10W, N.M.P.M., (M) SW/SW

5. Lease Serial No.

SF 080724-A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Zachry 47

9. API Well No.

30-045-25609

10. Field and Pool, or Exploratory Area

Armenta-Gallup

11. County or Parish, State

San Juan NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|--|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans | <input checked="" type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

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 recomple 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 recomple 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.)

Energgen Resources intends to plug and abandon the Zachry #47 according to the attached downhole and reclamation procedures. This will be a closed loop operation. The NMCD will be notified 24 hrs prior to beginning operations.

OIL CONS. DIV DIST. 3

MAR 11 2016

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

SEE ATTACHED FOR
CONDITIONS OF APPROVALH₂S POTENTIAL EXIST

COPY

I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Anna Stotts

Title Regulatory Analyst

Signature

Date 3/4/16

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

PE

Date

3/10/16

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

FFO

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.

NMCD

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Energen Resources Corporation

Plug And Abandonment Procedure

Zachry #47

495' FSL & 495' FWL, Section 34, T-29-N, R-10-W

San Juan County, NM / API 30-045-25609

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rig to base beam. **All cement will be Class "G" with a yield of 1.15 cu ft/sk., 15.8 ppg slurry weight, mixed at 5.0 gal/sk.**
2. Check casing, tubing, and bradenhead pressures. Report Bradenhead pressure information to Energen Engineer.
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP. Test tubing to 1000#.
5. TOH 2-3/8" tubing string per pertinent pipe tally:
 - 2-3/8" 4.7# J-55 tubing 5905' (est 186 jts)
 - Tally and visually inspect tubing and replace bad joints as necessary.
6. P/U 4-1/2" bit or casing scraper on 2-3/8" workstring and round trip to top perforation at 5466'. **(TOL @ 5189')**

7. P/U 4 ½" CR, TIH and set CR at +/- 5416'. Pressure test tubing to 1000 psi. String out of CR, load hole and pressure test casing to 550 psi. **If casing does not test, then spot or tag subsequent plugs as appropriate.**

8. Rig up to pump cement down tubing. Establish circulation down tubing.

9. **Plug 1 (Gallup Formation, Shoe and Liner top): 5416'-5089', 37 Sacks Class G Cement)**

Mix 37 sx Class G cement and spot a balanced plug inside casing to cover Gallup formation top.

10. **Plug 2 (Mancos Formation top): 4770' - 4620', 29 Sacks Class G Cement)**

Mix 29 sx Class G cement and spot a balanced plug inside casing to cover Mancos formation top. PUH

11. **Plug 3 (Mesaverde Formation top): 2970'-2820', 29 Sacks Class G Cement)**

Mix 29 sx Class G cement and spot a balanced plug inside casing to cover Mesaverde formation top. PUH

12. **Plug 4 (Chacra top): 2580'-2430', 29 Sacks Class G Cement)**

Mix 29 sx Class G cement and spot a balanced plug inside casing to cover Chacra formation top. PUH

13. **Plug 5 (Pictured Cliffs-Fruitland tops): 2000'-1560', 85 Sacks Class G Cement)**

Mix 85 sx Class G cement and spot a balanced plug inside casing to cover Pictured Cliffs-Fruitland formation tops. PUH

14. **Plug 6 (Ojo Alamo top): 1000'-630', 72 Sacks Class G Cement)**

Mix 72 sx Class G cement and spot a balanced plug inside casing to cover Ojo Alamo formation top. PUH

15. Plug 7 (Surface Shoe and Surface): 377'-surface, 73 Sacks Class G Cement

Establish circulation out casing valve with water. Mix approximately 73 sx cement and spot a balanced plug from 377' to surface, circulate cement out of casing valve. TOH and LD tubing. Cut off well head and top off casing inside and outside with cement as necessary. Shut in well and WOC.

16. ND cementing valves and cut off wellhead. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.

Zachry # 47

Current

Armenta Gallup

Today's Date: 2/22/16

495' FSL & 495' FWL, Section 34, T-29-N, R-10-W, San Juan County, NM

Elevation: 5742' GI
5756' KB

Spud: 4/5/1983

Gallup Completed:
6/2/1983

Lat: N _____ / Long: W _____ / API #30-045-25609

9 5/8" 36# K-55 casing set @ 327'
Cemented w/ 307 cf; CI "B"
Cement circulated to surface.

Ojo Alamo @ 730'

Kirtland @ 950'

Fruitland @ 1660'

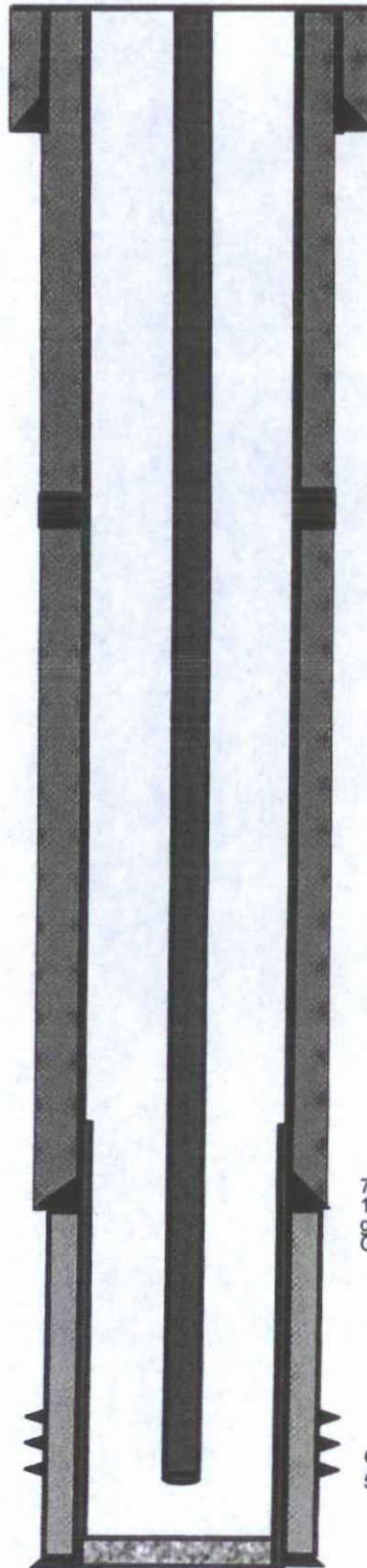
Pictured Cliffs @ 1950'

Chacra @ 2530'

Mesaverde @ 2920'

Mancos @ 4720'

Gallup @ 5466'



DV Tool @ 2020'

Stage 2: cemented with 1232 cf 65/35 w/12%
gel and 12# gilsonite per sack. Tailed w/ 118 cf
"B". Circulated 80 bbl. cmt To surface

TOL @ 5189'

7" 23#, K-55 casing set @ 5370'
1st stage cemented w/ 1100 cf 65/35 POZ w/ 12%
gel and 12# Gilsonite and tailed with 118 cf "B"
Circulated 70 bbls cmt off DV tool

4-1/2" 11.6#, K-55 Liner set from 5189' - 6100'
Cement with 179 cf 50/50 POZ

Gallup Perforations:
5466' - 6045'

TD 6100'

PBTD @ 6055'

Zachry # 47

Proposed

Armenta Gallup

Today's Date: 2/22/16

495' FSL & 495' FWL, Section 34, T-29-N, R-10-W, San Juan County, NM

Elevation: 5742' GI
5756' KB

Spud: 4/5/1983

Gallup Completed:
6/2/1983

Lat: N _____ / Long: W _____ / API #30-045-25609

9 5/8" 36# K-55 casing set @ 327'
Cemented w/ 307 cf, CI "B"
Cement circulated to surface.

Ojo Alamo @ 730'

Kirtland @ 950'

Fruitland @ 1660'

Pictured Cliffs @ 1950'

Chacra @ 2530'

Plug #4 (Chacra):
Spot cmt from +- 2580' to
2430'

Mesaverde @ 2920'

Plug #3 (Mesaverde):
Spot cmt from +- 2970' to
2820'

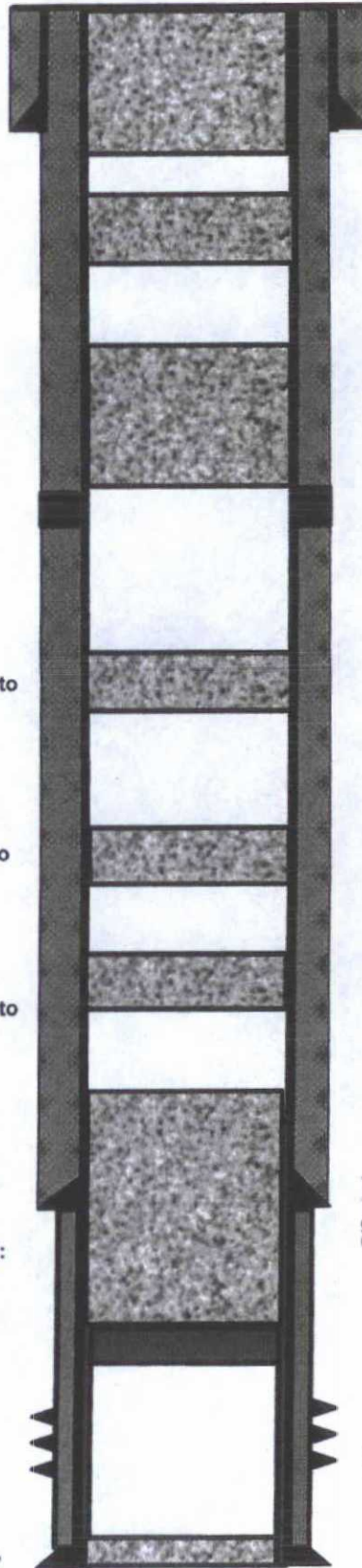
Mancos @ 4720'

Plug #2 (Mancos):
Spot cmt from +- 4770' to
4620'

Plug #1 (Gallup, shoe and liner top):
Set BP @ +- 5416' and cmt to 5089'

Gallup @ 5466'

TD 6100'
PBTD @ 6055'



Plug #7 (Surface shoe and surface):
Spot cmt from +- 377' to surface

Plug #6 (Ojo Alamo):
Spot cmt from +- 1000' to 630'

Plug #5 (Pictured Cliffs - Fruitland):
Spot cmt from +- 2000' to 1560''

DV Tool @ 2020'
Stage 2: cemented with 1232 cf 65/35 w/12%
gel and 12# gilsonite per sack. Tailed w/ 118 cf
"B". Circulated 80 bbl. cmt To surface

Note: All plugs include 50' of excess cement

TOL @ 5189'

7" 23#, K-55 casing set @ 5370'
1st stage cemented w/ 1100 cf 65/35 POZ w/ 12%
gel and 12# Gilsonite and tailed with 118 cf "B"
Circulated 70 bbls cmt off DV tool

4-1/2" 11.6#, K-55 Liner set from 5189' - 6100'
Cement with 179 cf 50/50 POZ

Gallup Perforations:
5466' - 6045'

P&A RECLAMATION PLAN
Zachry #47

General Notes:

- Energen will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.
- Energen will notify the BLM at least 48 hours prior to commencing reclamation earthwork.
- Energen will notify the BLM at least 48 hours prior to commencing with seeding application.
- Underground production piping on the well site will be removed or abandoned-in-place.
- If present, all Energen power poles, rectifiers, solar panels, and radio equipment will be removed. Cathodic ground beds will be left in place as they service ConocoPhillips wells.
- Rig anchors found on site will be removed.
- Disturbance will be limited to the well site footprint and access road boundaries.
- Surface equipment and trash, if any, will be removed.
- If present, gravel will be removed from the well pad surface. Gravel may be used as fill material at the base of the cut slope or on a nearby lease road as road-base.
- The P&A marker will be permanent and comply with NMOCD regulations.

Well Site Reclamation:

- Mature healthy vegetation on the site will be left to the extent practical.
- The top 6" of topsoil will be stripped and utilized during re-vegetation.
- The fill soils will be pulled onto location using a track-hoe to minimize the disturbance of existing vegetation.
- Location will be contoured to a two-step gradual slope.
- Existing drainage patterns will not be changed.
- The need for stormwater and erosion control BMPs other than reseeding is not anticipated. Natural drainage patterns will be established when possible and practical.
- All disturbed areas will be seeded in accordance with the FFO Bare Soil Reclamation Procedure C.
- The pad will be disked/scarred to a depth adequate for establishing a suitable root zone.
- Prior to seeding, the disturbed areas will be left with a rough surface to facilitate moisture and seed retention.
- Cathodic ground beds and associated equipment will be left in place as they service ConocoPhillips wells.
- The entrance of location will be modified to tear drop access to cathodic well.
- ConocoPhillips will remove pipeline to other side of access road below location.

Access Road Reclamation:

- The access road will remain for access to ConocoPhillips' cathodic facilities.

Revegetation:

The planned initial seed mixture and application rates for the Pinon/Juniper Community identified during the site visit will be as follows. The seed application rates may be adjusted according to various methods of application.

Species	Select		Lbs/acre (PLS)*
Mountain mahogany		Pick one out of two	2.0
Antelope Bitterbrush	X		2.0
Indian Ricegrass	X	Pick three out of five	3.5
Blue Grama	X		2.0
Prairie Junegrass			2.0
Sand Dropseed			0.5
Muttongrass	X		2.0
Bottlebrush Squartail	X	Pick two out of three	3.0
Needleandthread			3.0
Western Wheatgrass	X		2.0
Scarlet globemallow		Pick one out of two	0.25
Utah sweetvetch	X		0.25
TOTAL			14.75

* Minimum if drill seeded. Double this rate if broadcast or hydroseeded.

- Seeding will be broadcast so the rates will be doubled and a rake or harrow will be used to incorporate the seed into the soil.
- Seed mixtures will be certified weed-free and the seeding records (bag labels) or other official documentation will be available to the BLM prior to seeding, upon request.
- Seeding will occur as soon as reasonably possible following completion of earthwork activities and timed for successful germination.
- The need for soil amendments is not expected or proposed.

Weed Management:

- Energen's objective is to implement an integrated weed management program to control weed populations and establish desirable vegetation.
- No noxious weeds were noted during the onsite visit.
- If needed, weed management and control will be performed in an environmental conscious manner by a properly licensed contractor and within compliance of federal and state laws and regulations.

Monitoring:

- Energen will submit a Sundry Notice informing the BLM the earthwork and seeding are completed and requesting a joint inspection of the site.
- After approval of the earthwork and seeding, the BLM in collaboration with Energen will establish a line point intercept transect.
- After establishment of adequate vegetation, Energen will read the line point intercept transect and take photos of the site. This information will be submitted with a Sundry Notice (FAN) requesting approval of the reclaimed location.
- Any fencing installed to assist with re-vegetation will be removed once there is an agreement from the BLM that the vegetation percent cover standard has been obtained.

Attachments:

- Reference Photos of site, dated 2/29/16
- Noxious Weed Form

Zachry 47 Photo 1 of 5 taken February 29, 2016



ZACHRY #47

Zachry 47 Photo 2 of 5 taken February 29, 2016



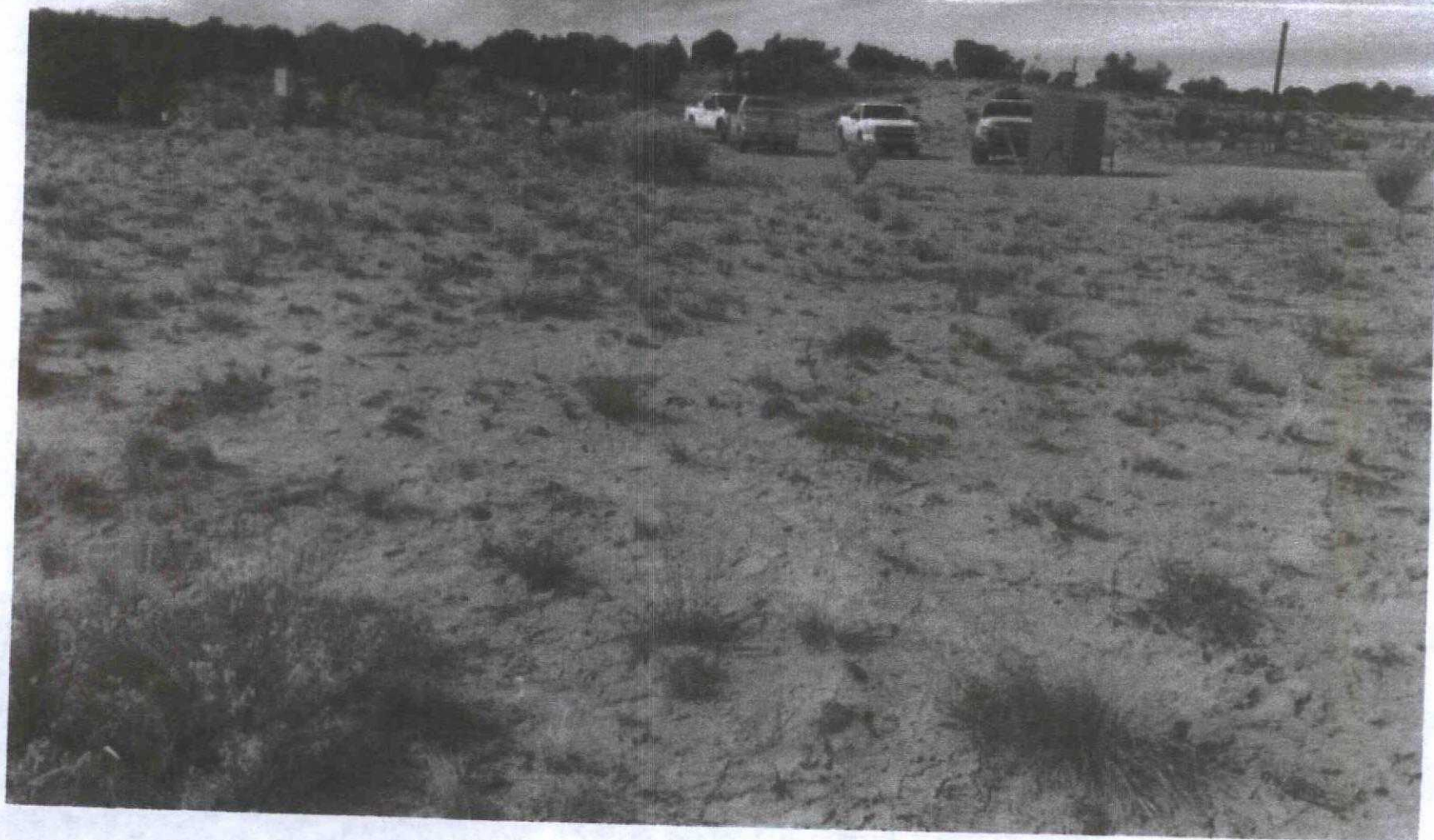
Zachry 47 Photo 3 of 5 taken February 29, 2016



Zachry 47 Photo 4 of 5 taken February 29, 2016



Zachry 47 Photo 5 of 5 taken February 29, 2016



Onsite Noxious Weed Form

If noxious weeds are found during the onsite, fill out form and submit to FFO weed coordinator
 Operator Energen Resources Surveyor(s) Bob Switzer, BLM/Kellie Campbell, Energen
 Well Name and Number Zachry 47 Date February 29, 2016
 Location: Township, Range, Section 29N/10W Section 34
 Location of Project NAD 83 Decimal Degrees Lat: 36.676726 Long: -107.879658

Class A Noxious Weed – Check Box if Found

<input type="checkbox"/>	Alfombrilla	<input type="checkbox"/>	Diffuse knapweed	<input type="checkbox"/>	Hydrilla	<input type="checkbox"/>	Purple starthistle	<input type="checkbox"/>	Yellow toadflax
<input type="checkbox"/>	Black henbane	<input type="checkbox"/>	Dyer's woad	<input type="checkbox"/>	Leafy spurge	<input type="checkbox"/>	Ravena grass	<input type="checkbox"/>	
<input type="checkbox"/>	Camelthorn	<input type="checkbox"/>	Eurasian watermilfoil	<input type="checkbox"/>	Oxeye daisy	<input type="checkbox"/>	Scotch thistle	<input type="checkbox"/>	
<input type="checkbox"/>	Canada thistle	<input type="checkbox"/>	Giant salvinia	<input type="checkbox"/>	Parrotfeather	<input type="checkbox"/>	Spotted knapweed	<input type="checkbox"/>	
<input type="checkbox"/>	Dalmation toadflax	<input type="checkbox"/>	Hoary cress	<input type="checkbox"/>	Purple loosestrife	<input type="checkbox"/>	Yellow starthistle	<input type="checkbox"/>	

Class B Noxious Weed – Check Box if Found

<input type="checkbox"/>	African rue	<input type="checkbox"/>	Perennial pepperweed	<input type="checkbox"/>	Russian knapweed	<input type="checkbox"/>	Tree of heaven
<input type="checkbox"/>	Chicory	<input type="checkbox"/>	Musk thistle	<input type="checkbox"/>	Poison hemlock	<input type="checkbox"/>	
<input type="checkbox"/>	Halogeton	<input type="checkbox"/>	Malta starthistle	<input type="checkbox"/>	Teasel	<input type="checkbox"/>	

Comments: No noxious weeds identified.

FFO Representative: _____

sign and date

Operator Representative _____

sign and date



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: Zachry 47

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) 564-7750.

3. The following modifications to your plugging program are to be made:

- a) Set Plug #2 (4815-4715) ft. to cover the Mancos top. BLM picks top of Mancos at 4765 ft.
- b) Set Plug #3 (3560-3460) ft. to cover the Mesaverde top. BLM picks top of Cliff House at 3510 ft.
- c) Set Plug #4 (2962-2862) ft. to cover the Chacra top. BLM picks top of Chacra at 2912 ft.

H₂S has not been reported at this location, however, low concentrations of H₂S (10 ppm – 32 ppm GSV) have been reported in wells within a 1 mile radius of this location.

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.