Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MAR 04 2016
Farmington Field Office
Bureau of Land Management

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

5. Lease Serial No.
SF 080724-A

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
[ ] Oil Well [X] Gas Well [ ] Other

8. Well Name and No.
Zachry 34

2. Name of Operator
ENERGEN RESOURCES CORPORATION

9. API Well No.
30-045-25466

3a. Address
2010 Afton Place, Farmington, NM 87401

3b. Phone No. (*include area code*)
(505) 325-6800

10. Field and Pool, or Exploratory Area
Armenta-Gallup

4. Location of Well (*Footage, Sec., T., R., M., or Survey Description*)
1980' FSL 660' FEL, Sec. 34, T29N, R10W, N.M.P.M., (I) NE/SE

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	TYPE OF ACTION			
[x] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
[ ] Subsequent Report	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Final Abandonment Notice	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[ ] Other
	[ ] Change Plans	[x] Plug and Abandon	[ ] Temporarily Abandon	
	[ ] Convert to Injection	[ ] Plug Back	[ ] 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 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.)

Energen Resources intends to plug and abandon the Zachry #34 according to the attached downhole and reclamation procedures. This will be a closed loop operation. The NMOCD will be notified 24 hrs prior to beginning operations.

KP

NMC

COPY

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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

OIL CONS. DIV DIST. 3

MAR 11 2016

H_2S POTENTIAL EXIST

14. I hereby certify that the foregoing is true and correct
Name (*Printed/Typed*) Anna Stotts
Title Regulatory Analyst
Signature Anna Stotts
Date 3/4/16

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Jack Savage
Title PE
Date 3/10/16
Office FFO

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.

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.

NMOCD

OPERATOR

N

16

ENERGEN
RESOURCES

Energen Resources Corporation

Plug And Abandonment Procedure

Zachry #34

1980' FSL & 660' FEL, Section 34, T-29-N, R-10-W

San Juan County, NM / API 30-045-25466

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 data sheet pipe tally:
   - 2-3/8" 4.7# J-55 tubing 5870' (est 185 jts)
   - Tally and visually inspect tubing and replace bad joints as necessary.

6. P/U 4-3/4" bit or casing scraper on 2-3/8" workstring and round trip to top perforation at 5323'. **(TOL @ 4587')**

7. P/U 5 ½" CR, TIH and set CR at +/- 5273'. Pressure test tubing to 1000 psi. Sting 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): 5273'-5173', 12 Sacks Class G Cement**)

   Mix 12 sx Class G cement and spot a balanced plug inside casing to cover perforated interval and Gallup formation top.

10. Plug 2 (**Shoe, Mancos & Liner top): 4840-4487', 53 Sacks Class G Cement**)

    Mix 53 sx Class G cement and spot a balanced plug inside casing to cover intermediate casing shoe, Mancos formation top and liner top. PUH

11. Plug 3 (**Mesa Verde Formation top): 3445'-3295', 34 Sacks Class G Cement)**

    Mix 34 sx Class G cement and spot a balanced plug inside casing to cover Mesa Verde formation top. PUH

12. Plug 4 (**Chacra Formation top): 2477'-2327', 34 Sacks Class G Cement)**

    Mix 34 sx Class G cement and spot a balanced plug inside casing to cover Chacra formation top. PUH

13. Plug 5 (**Pictured Cliffs - Fruitland Formation top): 1882'-1490', 88 Sacks Class G Cement)**

    Mix 88 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): 882'-700', 41 Sacks Class G Cement)**

Mix 41 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): 331'-surface, 75 Sacks Class G Cement)**

    Establish circulation out casing valve with water. Mix approximately 75 sx cement and spot a balanced plug from 331' 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 #34

Current

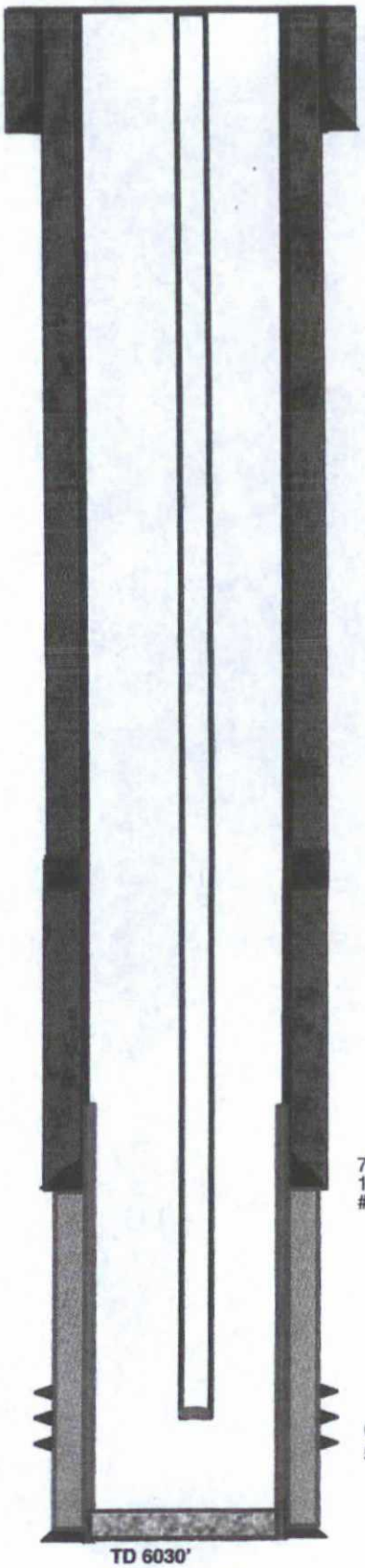
Today's Date: **2/19/16**

Armenta Gallup

1980 FSL & 660' FEL, Section 34, T-29-N, R-10-W, San Juan County, NM

Spud: 10/19/1982
Gallup Completed: 12/13/1982

Lat: N _____ / Long: W _____ / API #30-045-25466



Kirtland @ 176'

12-1/4" hole

10-3/4" 40.5# H-40 casing set @ 281'
Cemented w/ 320 cf; cement did not circ to surface. Spot additional 360 cf. cement. Cement circulated to surface.

Elevation: 5846' Gl
5858' KB

Ojo Alamo @ 800'

Kirtland @ 832'

2-3/8", 4.7#, J-55 tubing @ 5854'

Fruitland @ 1590'

Pictured Cliffs @ 1832'

Chacra @ 2427'

Mesaverde @ 3395'

DV Tool @ 2003'
Stage 2: cemented with 1359 cf 65/35 w/12% gel and tailed w/ 118 cf "B" Circulated 30 bbl. To surface

TOL @ 4587'

Gallup @ 5322'

7-5/8" 26.4#, J-55 casing set @ 4790'
1st stage cemented w/ 1000 cf Howco lite w/ 12 ¼ # Gilsonite and tailed with 118 cf "B"

7-7/8" hole

5-1/2" 15.5#, J-55 Liner set from 4587'– 6024'
Cement with 198 cf 50/50 POZ

Gallup Perforations:
5323' – 5904'

TD 6030'

Zachry # 34

Proposed

Today's Date: **2/22/16**

Armenta Gallup

1980 FSL & 660' FEL, Section 34, T-29-N, R-10-W, San Juan County, NM

Spud: 10/19/1982
Gallup Completed: 12/13/1982

Lat: N _____ / Long: W _____ / API #30-045-25466

Elevation: 5701' GI
5713' KB

10-3/4" 40.5# H-40 casing set @ 281'
Cemented w/ 320 cf; cement did not circ to surface. Spot additional 360 cf. cement. Cement circulated to surface.

Ojo Alamo @ 800'

Kirtland @ 832'

Fruitland @ 1590'

Pictured Cliffs @ 1832'

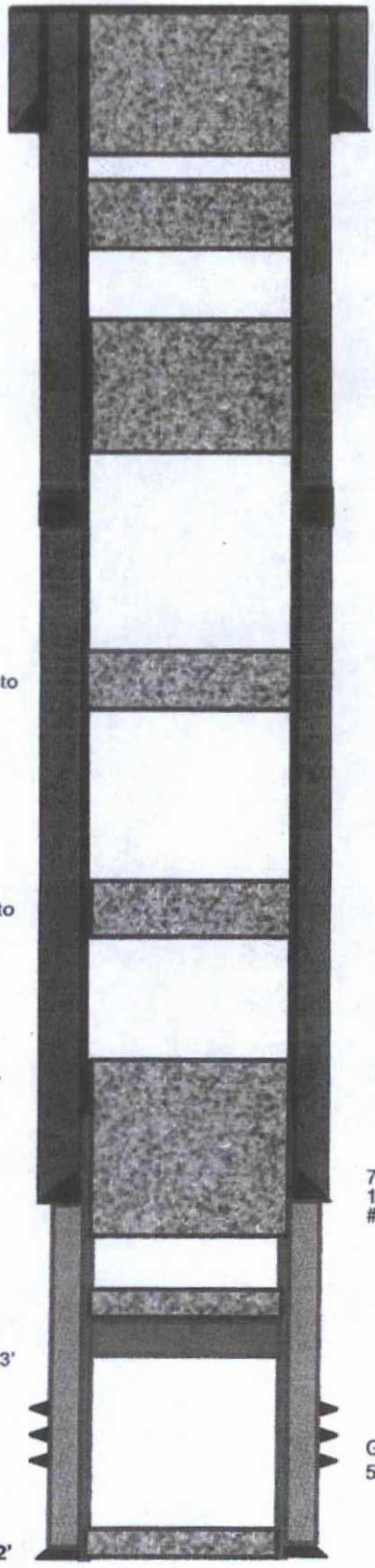
Chacra @ 2427'

Mesaverde @ 3395'

TOL @ 4587'

Mancos @ 4616'

Gallup @ 5322'



Plug #7 (Surface shoe and surface):
Spot cmt from +- 331' to surface

Plug # 6 (Ojo Alamo):
Spot cmt from +- 882' to 700'

Plug # 5 (Pictured Cliffs - Fruitland):
Spot cmt from +- 1882'' to 1490'

DV Tool @ 2003'
Stage 2: cemented with 1359 cf 65/35 w/12% gel and 12# gilsonite per sack. Tailed w/ 118 cf "B". Circulated 30 bbl. To surface

Plug #4 (Chacra):
Spot cmt from +- 2477' to 2327'

Note: All plugs include 50' of excess cement

Plug #3 (Mesaverde):
Spot cmt from +- 3445' to 3295'

Plug #2 (Shoe, Mancos & Liner top):
Spot plug from +- 4840' to 4487'

7-5/8" 26.4#, J-55 casing set @ 4790'
1st stage cemented w/ 1000 cf Howco lite w/ 12 ¼ # Gilsonite and tailed with 118 cf "B"

Plug #1 (Gallup):
Set BP @ +- 5273' and Cap w/ 100' cmt to 5173'

5-1/2" 15.5#, J-55 Liner set from 4587'– 6024'
Cement with 198 cf 50/50 POZ; Circulated 8 bbls off TOL.

Gallup Perforations:
5323' – 5904'

TD 6030'
PBTD @ 5962'

P&A RECLAMATION PLAN
Zachry #34

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 and associated equipment 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.
- Diversion will be rebuilt to compliment natural drainage.
- The well pad and surrounding area are relatively flat. The need for stormwater and erosion control BMPs other than reseeding is not anticipated.
- 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.

Access Road Reclamation:

- The entrance of location will be barricaded to prevent entry into the site.
- Approximately fifty-feet of road at entrance to location will be reclaimed in addition to location.

- The sides of the road will be pulled in using a backhoe to minimize the disturbance of existing vegetation.
- Natural drainage patterns will be established when possible and practical.
- Prior to seeding, the disturbed areas will be left with a rough surface to facilitate moisture and seed retention.

Revegetation:

The planned initial seed mixture and application rates for the Badland 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)*
Fourwing saltbrush	x	Pick two out of four	4.0
Shadscale	x		2.0
Winterfat			2.0
Mormon tea			2.0
Indian Ricegrass	x	Pick four out of seven	5.0
Alkalie sacaton	x		.25
Bottlebrush squirreltail			4.0
Sand dropseed	x		0.5
Blue grama	x		2.0
Galleta			4.0
Siberian wheatgrass			3.0
Small flower globemallow	x	Pick one out of two	0.25
Narrow Leaf Penstemon			0.25
TOTAL			14

* 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:

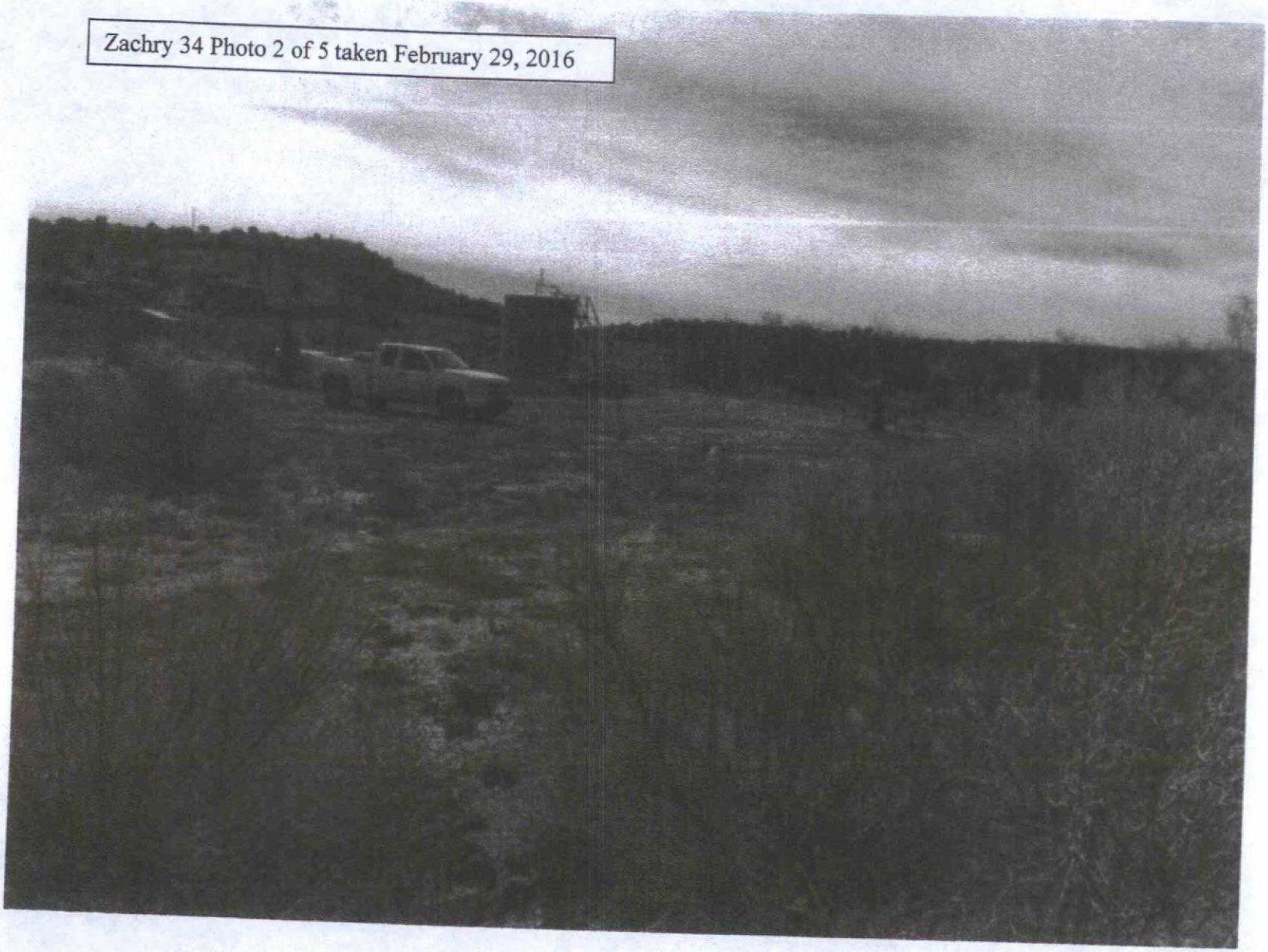
- Energen will submit a Sundry Notice informing the BLM the earthwork and seeding are completed and requesting a joint inspection of the site.
- After approval of the earthwork and seeding, the BLM in collaboration with Energen will establish a line point intercept transect.
- After establishment of 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:

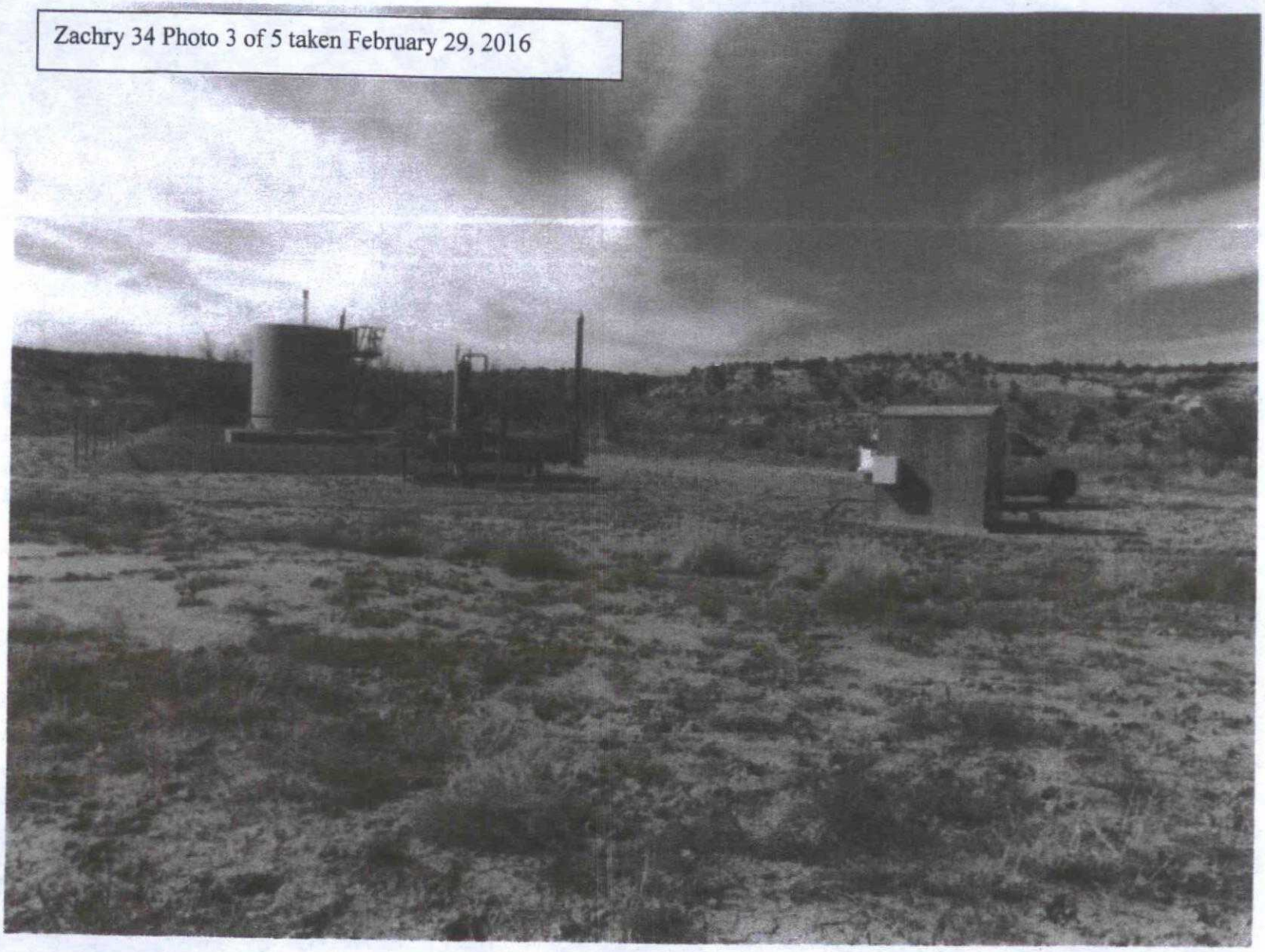
- Reference Photos of site, dated 2/29/2016
- Noxious Weed Form

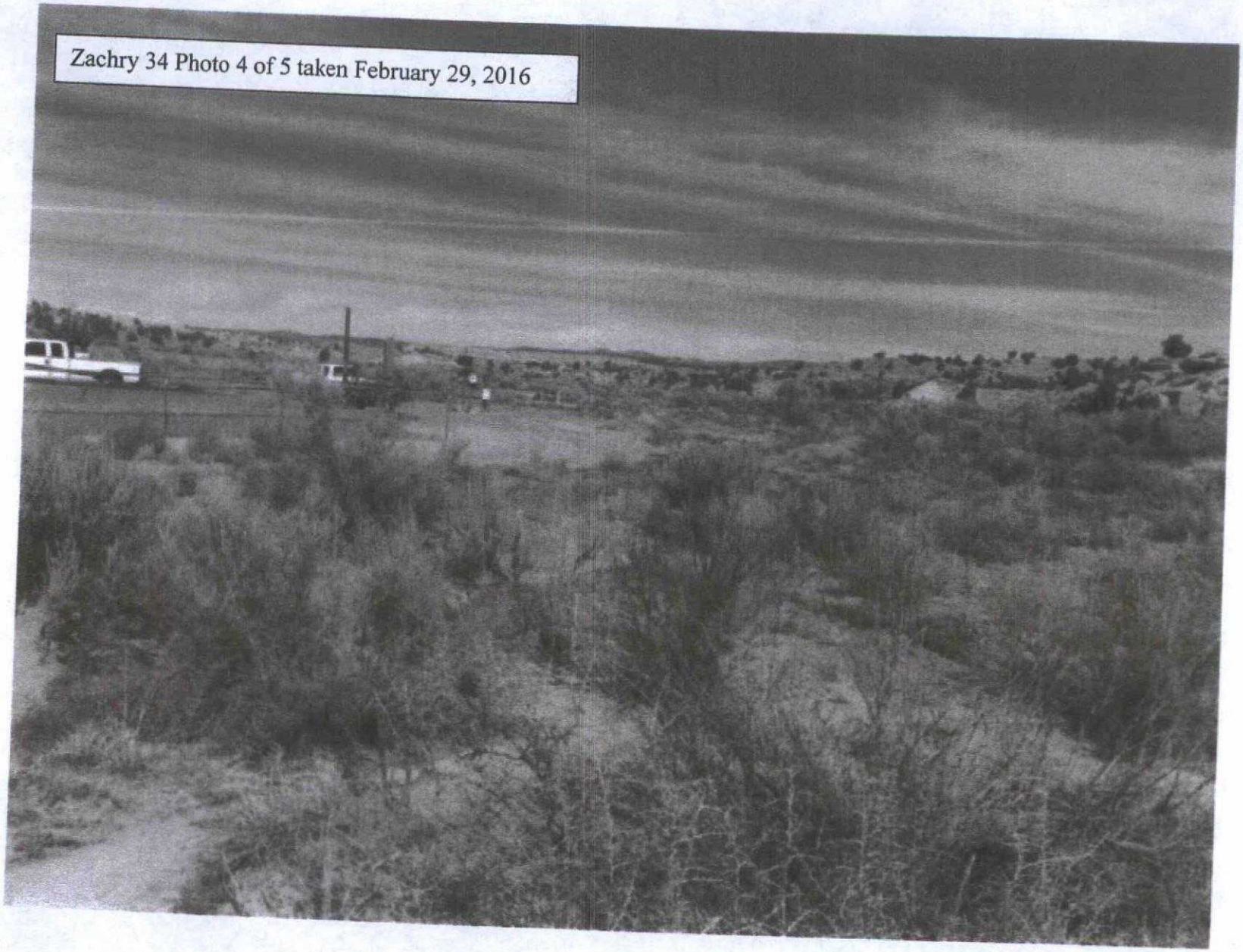

Zachry 34 Photo 1 of 5 taken February 29, 2016
ENERGEN
RESOURCES CORPORATION
ZACHRY #34. SF-080724-A
1980' FSL & 660' FEL. SEC. 34-T29N-R10W
SAN JUAN CO., NM ELEV. 5701' G.L.
DANGER
NO TRESPASSING
DANGER
NO SMOKING

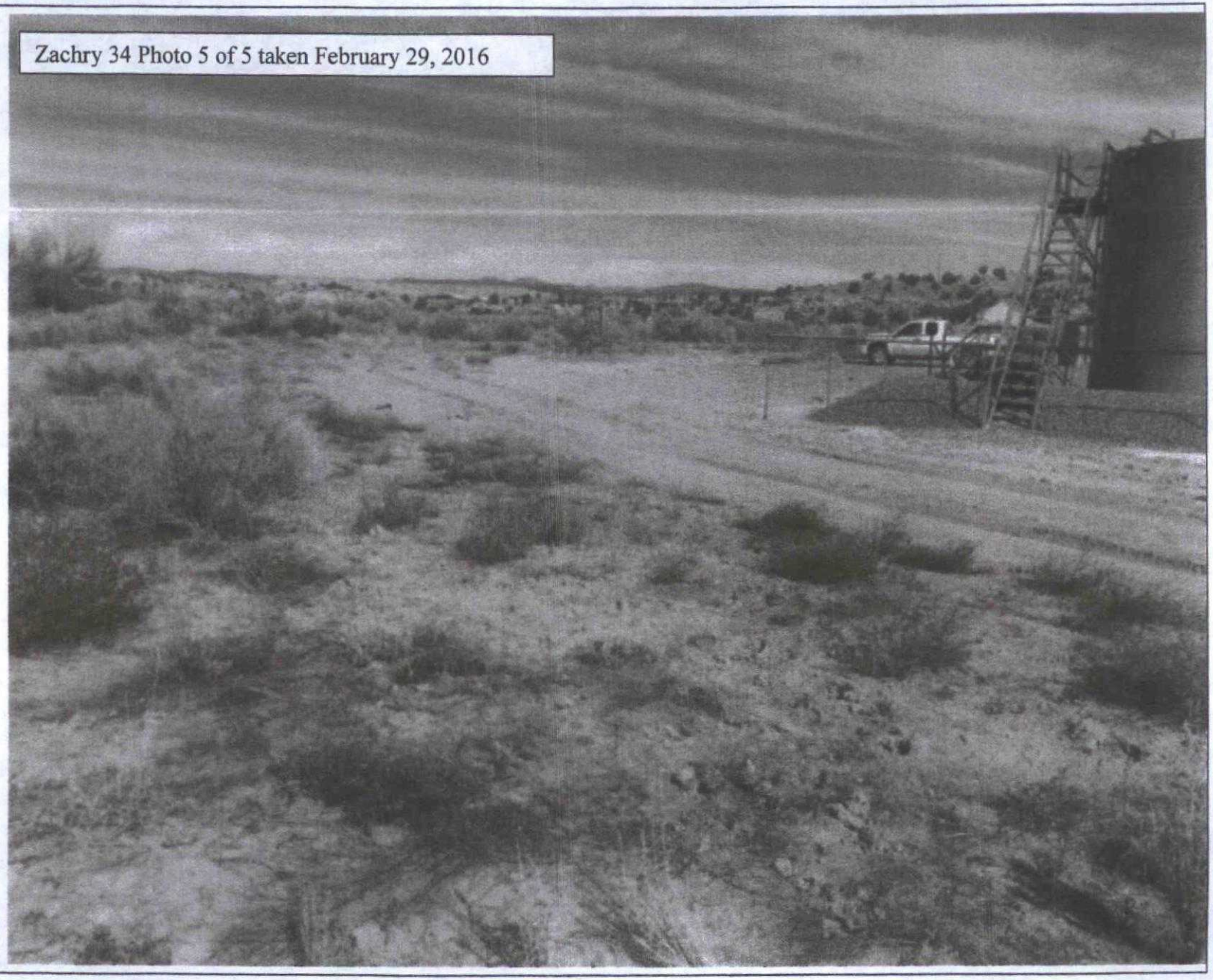
Zachry 34 Photo 2 of 5 taken February 29, 2016



Zachry 34 Photo 3 of 5 taken February 29, 2016




Zachry 34 Photo 4 of 5 taken February 29, 2016


Zachry 34 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 34 Date February 29, 2016
Location: Township, Range, Section 29N/10W Section 34
Location of Project NAD 83 Decimal Degrees Lat: 36.680839 Long: -107.865771

Class A Noxious Weed – Check Box if Found

	Alfombrilla		Diffuse knapweed		Hydrilla		Purple starthistle		Yellow toadflax
	Black henbane		Dyer's woad		Leafy spurge		Ravenna grass		
	Camelthorm		Eurasian watermilfoil		Oxeye daise		Scotch thistle		
	Canada thistle		Giant salvinia		Parrotfeather		Spotted knapweed		
	Dalmation toadflax		Hoary cress		Purple loosestrife		Yellow starthistle		

Class B Noxious Weed – Check Box if Found

	African rue		Perennial pepperweed		Russian knapweed		Tree of heaven
	Chicory		Musk thistle		Poison hemlock		
	Halogeton		Malta starthistle		Teasel		

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 34

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 #3 (3472-3372) ft. to cover the Mesaverde top. BLM picks top of Cliff House at 3422 ft.

b) Set Plug #4 (2842-2742) ft. to cover the Chacra top. BLM picks top of Chacra at 2792 ft.

c) Bring the top of Plug #5 to 1480 ft. to cover the Fruitland top. BLM picks top of Fruitland at 1530 ft. Adjust cement volume accordingly.

d) Bring the top of Plug #6 to 600 ft. to cover the Ojo Alamo top. BLM picks top of Ojo Alamo at 650 ft. Adjust cement volume accordingly.

H_2S has not been reported at this location, however, low concentrations of H_2S (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.