

UNITED STATES
DEPARTMENT OF THE INTERIOR
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

1. 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)

SHL: 1793°FNL 857°FEL Sec.24 T27N, R10W H

BHL: 2500°FNL 1900°FEL Sec.24 T27N R10W G

5. Lease Serial No.

SF 077952

6. If Indian Allottee or Tribe Name

RECEIVED

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

Bureau of Land Management

Farmington Field Office

8. Well Name and No.

Gordon A 2E

9. API Well No.

30-045-34811

10. Field and Pool, or Exploratory Area

Basin Dakota

11. County or Parish, State

San Juan N.M.

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

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other
☒ Change Plans ☐ 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 recompleat 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 recompleat 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 would like to change hole sizes for the Gordon A #2E. A tapered hole section will be drilled for the production casing.

Change the 6-1/4" hole size as follows:

8-3/4" hole from 400'-5500'MD (5328'TVD)

7-7/8" hole from 5500'-7550'MD (7305'TVD)

RCVD JAN 23 '09

OIL CONS. DIV.

Change of cement volumes as follows:

1st Stage: Change from 195sx to 460sx

2nd Stage: Change lead from 205sx to 615sx. Tail remains the same

3rd Stage: Change lead from 220sx to 700sx. Tail remains the same

DIST. 3

The production casing will remain unchanged.

A revised operations plan is attached

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

Jason Kincaid

Title Drilling Engineer

Signature

Date 1/20/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JAN 21 2009

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

1/20/2009

ENERGEN
R E S O U R C E S

OPERATIONS PLAN

WELL NAME.....Gordon A #2E
JOB TYPE.....Deviated Dakota
DEPT.....Drilling and Completions
PREPARED BY.....Jason Kincaid

GENERAL INFORMATION

Surface Location	1793 FNL 857 FEL
Bottom Hole Location	2500 FNL 1900 FEL
S-T-R	Sec.24, T27N, R10W
County, State	San Juan, New Mexico
Elevations	6543' GL
Total Depth	7550' +/- (MD); 7305' (TVD)
Formation Objective	Basin Dakota

FORMATION TOPS

Nacimiento	Surface	Point Lookout Ss	4785'
Ojo Alamo Ss	1460'	Mancos Shale	5115'
Kirtland Sh	1625'	Gallup Ss	5935'
Fruitland Fm	2155'	Greenhorn	6750'
Pictured Cliffs Ss	2430'	Graneros	6800'
Lewis Shale	2620'	Dakota "Twowells" Ss	6830' 7069'MD
Cliff House Ss	3965'	Dakota "Pagate" Ss	6920' 7160'MD
Menefee Fm	4060'	Dakota "Main Body" Ss	6985' 7226'MD
		Total Depth	7550' MD

DRILLING

The 12-1/4" wellbore will be drilled with a fresh water mud system.
The 8-3/4" wellbore will be drilled to approximately 5500' and a 7-7/8" wellbore will be drilled to TD. A polymer/water mud system will be used. Mud density is expected to range from 8.6ppg to 8.9ppg.

KOP is 3500' TVD. An "S" curve will be drilled initially building angle at 3°/100' and then dropping angle to 10° with a drop of 1.25°/100'. Anticipated bottom-hole pressure is 1200 psi (8.38 ppg).

Blowout Control Specifications:

A 3000 psi minimum double ram or annulus BOP stack will be used following nipple up of casing head. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle and drill string valve should be available to fit each drill string and be available on the rig floor during drilling operations. **Pressure test BOP to 250 psi for 15 min and 2000 psi for 15 min.**

Logging Program:

Open hole logs: 7-7/8" wellbore gamma/induction density logs.
Mudlogs: From 6500' TVD to total depth
Surveys: Every 500' for vertical hole section and 250' while directional drilling to TD.

1/20/2009



CASING, TUBING & CASING EQUIPMENT

String	Start Depth	End Depth	Wellbore	Size	Wt	Grade
Surface	0	400	12-1/4"	9-5/8"	32.3 lb/ft	H-40 ST&C
Production	0	7550	8-3/4", 7-7/8"	4-1/2"	11.6 lb/ft	J-55 LT&C
Tubing	0	7550		2 3/8"	4.7 lb/ft	J-55

Casing Equipment:

Surface Casing: Depending on wellbore conditions, a Texas Pattern Guide Shoe on first joint with and insert float valve on top. Run standard bow spring centralizers as follows: every other joint from TD to surface.

Production Casing: String will be cemented in multiple (3) stages. Cement float shoe on bottom with float collar on top of 1st shoe joint. Starting from bottom, centralizers will be placed on every 4th joint. Location of centralizers as follows: 12 below and 12 above hydraulic stage packer collar and 20 centralizers above third stage collar for a total of 44 centralizers.

WELLHEAD

11" 3000 x 9 5/8" weld/slip on casing head. 11" 3000 x 7 1/16" Christmas Tree.

CEMENTING

Surface Casing: 220 sks Type V with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 250 ft³ of slurry). WOC 12 hours. Pressure test surface casing to 750 psi for 30 min. Test BOP as outlined in the drilling section

Production Casing: Before cementing, circulate hole at least 1 ½ hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout.

First Stage: Depending on wellbore conditions, cement may consist of 460 sks 50/50 Class G with 0.60 % Halad-9, 0.10 % CFR-3, 5 #/sk Gilsonite, and ¼ #/sk Flocele (13.5 ppg, 1.30 ft³/sk). (600 ft³ of slurry, 30 % excess to circulate to surface). **Stage Collar at 5500'.**

Second Stage: Depending on wellbore conditions, cement may consist a lead of 615 sks 65/35 Type V with 2.0% CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele and a tail of 50 sks Type V with 1.0 % CaCl₂. (12.3 ppg, 1.93 ft³/sk and 15.6 ppg, 1.18 ft³/sk respectively). (1250 ft³ of slurry, 50% excess to circulate to surface). **Stage Collar at 2750'.** Circulate 4 hours starting at time of plug down.

Third Stage: Depending on wellbore conditions, cement may consist a lead of 700 sks 65/35 Type V with 2.0% CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele and a tail of 50 sks Type V with 1.0 % CaCl₂. (12.3 ppg, 1.93 ft³/sk and 15.6 ppg, 1.18 ft³/sk respectively). (1415 ft³ of slurry, 70% excess to circulate to surface).

Set slips with full string weight

If cement does not circulate, run temperature survey in 8 hrs. to determine TOC.

1/20/2009



OTHER INFORMATION

- 1) This well will be cased and the Basin Dakota fracture stimulated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The production string may need to be cemented in multiple stages with a slurry design deviated from that listed above.
- 3) If high reservoir pressures or water flows are encountered slurry design may need to be deviated to from those listed above to satisfy wellbore and formation conditions. Anticipated pressure is 1200 psi.
- 4) No abnormal temperatures or pressures are anticipated.
- 5) This gas is dedicated.

CONTACT INFORMATION

Contractor	Patterson	Office: 334-8361
Water	Dawn Trucking	486-4302-Jay Robinson
Mud	MI Swaco	215-9214
Cement	Halliburton	324-3500
Float Equipment	Big Red Tool	325-5045
	Halliburton	324-3500
Directional Serv.	Pathfinder	793-5375-Larry Hohle
Open Hole Logging	Schlumberger	324-5006
Casing	M & R	334-5541
Bits	Smith Bits	320-2129-Jacob Waitman
Wellhead	Big Red Tool	325-5045
Operator	Energen Resources	325-6800
Consultant	Jim Weatherford	320-1591
Drilling Engineer	Jason Kincaid	Cell: 330-0361
Drilling Superintendent	Doug Thomas	H: 334-3809, Cell: 330-1954

