

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.

RECEIVED

JAN 19 2009

SUBMIT IN TRIPLICATE - Other instructions on page 2

Bureau of Land Management  
Farmington Field Office

## 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)

995' FSL and 965' FWL Sec. 3 T 23N R 3W  
25N

## 5. Lease Serial No.

NM 03779

## 6. Indian, Allottee or Tribe Name

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

## 8. Well Name and No.

McCroden B 3B

## 9. API Well No.

30-039-30502

## 10. Field and Pool, or Exploratory Area

Mesa Verde

## 11. County or Parish, State

Rio Arriba

## 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 checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       |   |
| <input type="checkbox"/> Convert to Injection    | <input checked="" 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 recompletable 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 recompletable 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.)

Due to hole problems the McCroden B 3B needs to be sidetracked. As approved by Troy Salvuers on 1/06/09, verbally, the wellbore will be abandoned as described on the attached sidetrack plan.

The well will then be drilled vertically in Sec. 3. The drilling, casing and cementing plans are on the attached sidetrack plan as well.

Before the McCroden will be produced one of the other Mesa Verde wells in the quarter-section will be plugged and the well will be renamed, that will come in future sundrys.

RCVD MAR 2 '09

OIL CONS. DIV.

DIST. 3

## CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

Hold C104

for Directional Survey  
and "As Drilled" plat

## 14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Devin Mills

Title Drilling Engineer

Signature

Date 01/07/09

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salvuers

Title PE

Date

2/27/2009

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

FFO

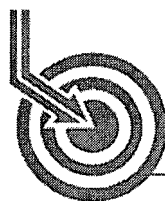
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

### **Sidetrack Plan for McCroden B 3B**

1/07/09

1. Complete abandonment procedures as covered below;
  - a. Set balanced plug from 5817' MD to 5300' (100' above Mesa Verde)
    - i. 162 sx of 50/50 poz/"G" with 0.3% Halad 344 (13.5 ppg 1.33 ft<sup>3</sup>/sx)
  - b. Wait 12 hrs and tag top of plug.
  - c. Pull up to 4100' MD and pump the
    - i. 161 sx of class "G" with 3% KCl. (16.4 ppg 1.04 ft<sup>3</sup>/sx)
2. Wait 12 hrs after setting kick off plug and dress off plug to 9 5/8" casing shoe (3824' MD)
3. Wait 24 hrs after dressing off plug and begin kick off.
4. Use a 8 3/4" tri-cone bit, pendulum assembly (stabilizers at 30' and 60') and Weatherford's small air package to drill out.
  - a. Keep weight to a minimum to ensure that new hole is drilled vertically.
  - b. Be prepared for a water flow at ±4100'. If water flow is encountered:
    - i. Drill to 4300' taking surveys every 250'.
      1. Differential sticking highly likely after water flow is encountered keep pipe moving at all times.
    - ii. Condition hole for casing.
    - iii. Run 700' of 7" 26# HCL-80. With a 30' shoe tract, centralization as necessary and a TIW 7" x 9 5/8" liner hanger.
    - iv. Hang liner with a 200' lap and establish circulation. Circulate 2 full casing volumes ~4500 scf.
    - v. Cement casing with 126 sx of 50/50 poz/"G" with 2.0% Bentonite, 0.8% Halad-9, 5.0 pps Gilsonite, 0.25 pps Flocele at 13.0 ppg and 1.3 ft<sup>3</sup>/sx (50% excess). Displace with freshwater ~ 21.6 bbls. 1.03 bbls should be circulated back to surface. Leave some cement above liner top.
    - vi. Wait 12 hrs before testing casing to 1500 psi.
5. Pick up air hammer package and drill to TD of 6055' taking surveys every 250'.
6. Prepare hole for logs and log hole with triple combo.
7. Clean out hole for casing
8. Run 5 1/2" 15.5# J-55 casing to 6355' with a 30' shoe tract, a swedge to 7" 26# HCL-80 hung off in a TIW 9 5/8" x 7" liner hanger with a stinger down into the 5 1/2" casing for the plugs. Hang off liner with a 200' lap.
  - a. If water flow was hit run 4 1/2" 11.6# J-55 to 6355' (first two joints to be 4 1/2" 15.1# J-55) with a 4 1/2" x 7" TIW liner hanger. Hang off liner with a 200' lap.
9. Cement casing with 50/50 poz/"G" with 2.0% Bentonite, 0.8% Halad-9, 5.0 pps Gilsonite, 0.25 pps Flocele at 13.0 ppg and 1.3 ft<sup>3</sup>/sx (50% excess). Volume of cement to be determined by caliper log. Displace cement with 2% KCL.
10. Install well head (from Big Red) and secure well.



# Scientific Drilling

## Gyroscopic Survey Report for ENERGEN

<b>Well Location</b>	
<b>Well Name</b>	MC CRODENB#3B
<b>Rig Name</b>	AZTEC#222
<b>Survey Date</b>	2009/01/06
<b>Latitude</b>	36.42 deg
<b>North Reference</b>	True North
<b>Grid Correction</b>	0.00 deg
<b>Depth Reference</b>	RKB12 FT
<b>Calculation Method</b>	Minimum Curvature
<b>Section (VS) Ref</b>	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
<b>Definitive Survey</b>	Computed from MC.BIN's HighSpeed: OutRun
<b>Operator</b>	MATLOCKSTANLEY

### Comments

SURVEYED FROM RKB TO 3750.00

RCVD MAR 2 '09  
OIL CONS. DIV.  
DIST. 3



## Survey Report

Well Name:		MC CRODENB#3B								
Survey:		Computed from MC.BIN's HighSpeed: OutRun								
Survey Date:		2009/01/06								
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00	
100.00	0.44	113.21	100.00	-0.15	-0.15	0.35	0.44	0.38	113.21	
200.00	0.22	82.90	200.00	-0.28	-0.28	0.90	0.27	0.94	107.18	
300.00	0.47	154.29	300.00	-0.62	-0.62	1.27	0.45	1.42	116.18	
400.00	0.58	131.09	399.99	-1.33	-1.33	1.83	0.23	2.26	125.96	
500.00	0.56	129.75	499.99	-1.97	-1.97	2.58	0.02	3.25	127.32	
600.00	0.42	152.34	599.98	-2.60	-2.60	3.13	0.24	4.07	129.77	
700.00	0.59	136.47	699.98	-3.30	-3.30	3.65	0.22	4.92	132.10	
800.00	0.27	144.97	799.98	-3.86	-3.86	4.14	0.32	5.66	133.02	
900.00	0.45	143.01	899.97	-4.37	-4.37	4.51	0.18	6.27	134.09	
1000.00	0.25	139.74	999.97	-4.84	-4.84	4.88	0.20	6.88	134.77	
1100.00	0.13	124.47	1099.97	-5.07	-5.07	5.12	0.13	7.20	134.76	
1200.00	0.12	221.74	1199.97	-5.21	-5.21	5.14	0.18	7.32	135.38	
1300.00	0.13	264.06	1299.97	-5.30	-5.30	4.96	0.09	7.26	136.89	
1400.00	0.23	282.86	1399.97	-5.27	-5.27	4.65	0.11	7.03	138.54	
1500.00	0.03	42.28	1499.97	-5.20	-5.20	4.47	0.25	6.86	139.29	
1600.00	0.09	264.01	1599.97	-5.19	-5.19	4.41	0.12	6.81	139.63	
1700.00	0.07	2.54	1699.97	-5.14	-5.14	4.33	0.12	6.72	139.87	
1800.00	0.14	13.39	1799.97	-4.97	-4.97	4.36	0.07	6.61	138.70	
1900.00	0.26	24.67	1899.97	-4.65	-4.65	4.48	0.13	6.46	136.02	
2000.00	0.33	19.58	1999.97	-4.17	-4.17	4.68	0.08	6.26	131.72	
2100.00	0.22	20.46	2099.97	-3.71	-3.71	4.84	0.11	6.10	127.48	
2200.00	0.11	146.85	2199.97	-3.61	-3.61	4.96	0.30	6.13	126.04	
2300.00	0.09	4.94	2299.97	-3.61	-3.61	5.02	0.19	6.18	125.71	
2400.00	0.10	302.60	2399.97	-3.48	-3.48	4.95	0.10	6.05	125.11	
2500.00	0.29	192.76	2499.97	-3.68	-3.68	4.82	0.33	6.06	127.33	
2600.00	0.44	181.95	2599.96	-4.30	-4.30	4.75	0.17	6.41	132.17	
2700.00	0.22	174.88	2699.96	-4.88	-4.88	4.76	0.22	6.82	135.75	
2800.00	0.06	162.98	2799.96	-5.12	-5.12	4.79	0.17	7.01	136.94	
2900.00	0.05	14.49	2899.96	-5.13	-5.13	4.81	0.10	7.03	136.79	
3000.00	0.03	76.65	2999.96	-5.07	-5.07	4.85	0.05	7.02	136.26	
3100.00	0.19	82.00	3099.96	-5.04	-5.04	5.04	0.15	7.13	135.01	
3200.00	0.20	43.55	3199.96	-4.90	-4.90	5.32	0.13	7.23	132.63	
3300.00	0.48	34.69	3299.96	-4.43	-4.43	5.68	0.29	7.20	127.97	
3400.00	0.14	61.90	3399.96	-4.03	-4.03	6.02	0.36	7.25	123.78	
3500.00	0.07	346.38	3499.96	-3.91	-3.91	6.12	0.14	7.26	122.59	
3600.00	0.13	244.34	3599.96	-3.90	-3.90	5.99	0.17	7.15	123.04	
3700.00	0.28	237.45	3699.96	-4.08	-4.08	5.68	0.15	7.00	125.71	
3750.00	0.77	243.12	3749.96	-4.30	-4.30	5.28	0.97	6.81	129.19	