

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

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 reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3a. Address

2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No. (include area code)

505.325.6800

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

790' FSL, 900' FWL SW/4

(M) S18, T32N, R4W

5. Lease Serial No.

NM 30015

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Carracas 18B #13

9. API Well No.

30-039-24282

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

Rio Arriba NM

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

TYPE OF SUBMISSION

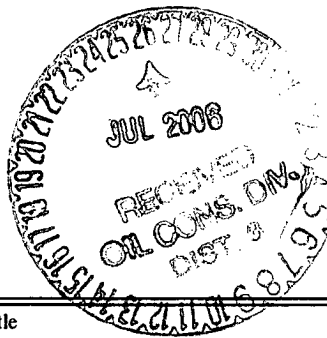
- ☒
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ 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 recompleate 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 recompleation 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 proposes a recompleation of the Carracas 18B #13 in the Basin Fruitland Coal by drilling a horizontal lateral off the existing vertical wellbore as indicated on the attached C-102 and directional wellplan. A whipstock will be set at 3886' +/- (TVD) and a window milled in the existing 5 1/2" casing. The lateral will be drilled to 5909' (MD), 4146' (TVD). This will be an open-hole completion. 2 3/8" tubing will be landed at 4177' (TVD) in the 5 1/2" casing.

HOLD C104 FOR directional surveyRECEIVED
JUL 11 36
FARMINGTON NM14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Nathan Smith

Title

Drilling Engineer

Date 5/5/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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.

NMOCB 8

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-102
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-24282	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 35658	⁵ Property Name Carracas 18B	⁶ Well Number #13
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 7420'

¹⁰ Surface Location

UL or lot no. M	Section 18	Township 32N	Range 4W	Lot. Idn	Feet from the 790	North/South line fsl	Feet from the 900	East/West line fwl	County Rio Arriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. K	Section 18	Township 32N	Range 4W	Lot. Idn	Feet from the 2530	North/South line fsl	Feet from the 1600	East/West line fwl	County Rio Arriba
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¹² Dedicated Acres W/2 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 W/2 1600' BHL 900' SHL 790' 2530' 18	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Nathan Smith</i> Signature Nathan Smith Printed Name Drilling Engineer Title and E-mail Address 4/26/06 Date ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. December 8, 1988 Date of Survey Signature and Seal of Professional Surveyor: Original survey with footages 790' fsl and 900' fwl conducted and recorded by Edgar L. Risenhoover on 12/8/88. NM Surveyor #5979 Certificate Number
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PATHFINDER

PATH-FINDER

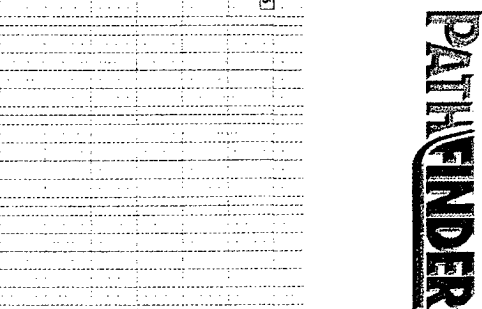
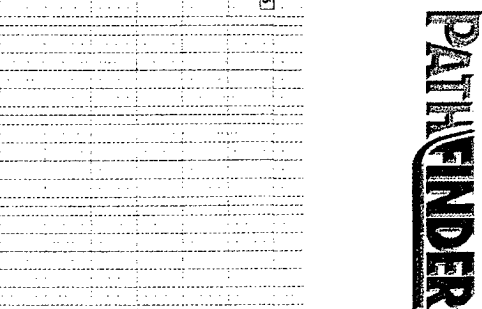
PATH-FINDER

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PATH-FINDER

Pathfinder Energy

Planning Report - Geographic

Company: Energen Resources Corporation Field: Carracas Canyon Site: Carracas 18-B 13 Well: Carracas 18 B #13 Wellpath: Original Hole	Date: 5/4/2006 Co-ordinate(NE) Reference: Well: Carracas 18 B #13, Grid North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,21.91Azi) Plan: Plan #1 5-4-06
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Field: Carracas Canyon
Rio Arriba County, NM

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Western Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Carracas 18-B 13
Rio Arriba County, New Mexico
790' FSL 900' FWL Sec. 18; T32N; R4W

Site Position:	Northing:	Latitude:
From: Lease Line	Easting:	Longitude:
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 7420.00 ft		Grid Convergence: 0.00 deg

Well: Carracas 18 B #13	Slot Name:
Well Position:	
+N/-S 0.00 ft	Latitude: 30 59 24.512 N
+E/-W 0.00 ft	Longitude: 109 25 44.094 W
Position Uncertainty: 0.00 ft	

Wellpath: Original Hole	Drilled From: Surface	
Current Datum: Mean Sea Level	Tie-on Depth: 0.00 ft	
Magnetic Data: 5/4/2006	Above System Datum: Mean Sea Level	
Field Strength: 0 nT	Declination: 0.00 deg	
Vertical Section: Depth From (TVD)	Mag Dip Angle: 0.00 deg	
ft	+N/-S	Direction
	ft	deg
0.00	0.00	21.91

Plan: Plan #1 5-4-06	Date Composed: 5/4/2006
Principal: Yes	Version: 1
	Tied-to: From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	21.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3885.56	0.00	21.91	3885.56	0.00	0.00	0.00	0.00	0.00	0.00	
4294.66	90.00	21.91	4146.00	241.62	97.20	22.00	22.00	0.00	21.91	
5909.75	90.00	21.91	4146.00	1740.00	700.00	0.00	0.00	0.00	0.00	PBHL

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	21.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	21.91	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	21.91
3885.56	0.00	21.91	3885.56	0.00	0.00	0.00	0.00	0.00	0.00	21.91

Section 2 : Start Build 22.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3886.00	0.10	21.91	3886.00	0.00	0.00	0.00	22.00	22.00	0.00	0.00
3900.00	3.18	21.91	3899.99	0.37	0.15	0.40	22.00	22.00	0.00	0.00
4100.00	47.18	21.91	4076.58	77.38	31.13	83.40	22.00	22.00	0.00	0.00
4294.66	90.00	21.91	4146.00	241.62	97.20	260.44	22.00	22.00	0.00	0.00

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4295.00	90.00	21.91	4146.00	241.94	97.33	260.78	0.00	0.00	0.00	0.00
4300.00	90.00	21.91	4146.00	246.57	99.20	265.78	0.00	0.00	0.00	0.00
4500.00	90.00	21.91	4146.00	432.12	173.84	465.78	0.00	0.00	0.00	0.00

Pathfinder Energy

Planning Report - Geographic

Company: Energen Resources Corporation
 Field: Carracas Canyon
 Site: Carracas 18-B 13
 Well: Carracas 18 B #13
 Wellpath: Original Hole

Date: 5/4/2006 Time: 15:04:00 Page: 2
 Co-ordinate(NE) Reference: Well: Carracas 18 B #13, Grid North
 Vertical (TVD) Reference: System: Mean Sea Level
 Section (VS) Reference: Well (0.00N,0.00E,21.91Azi)
 Plan: Plan #1 5-4-06

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4700.00	90.00	21.91	4146.00	617.67	248.49	665.78	0.00	0.00	0.00	0.00
4900.00	90.00	21.91	4146.00	803.22	323.13	865.78	0.00	0.00	0.00	0.00
5100.00	90.00	21.91	4146.00	988.77	397.78	1065.78	0.00	0.00	0.00	0.00
5300.00	90.00	21.91	4146.00	1174.31	472.43	1265.78	0.00	0.00	0.00	0.00
5500.00	90.00	21.91	4146.00	1359.86	547.07	1465.78	0.00	0.00	0.00	0.00
5700.00	90.00	21.91	4146.00	1545.41	621.72	1665.78	0.00	0.00	0.00	0.00
5900.00	90.00	21.91	4146.00	1730.96	696.36	1865.78	0.00	0.00	0.00	0.00
5909.75	90.00	21.91	4146.00	1740.00	700.00	1875.53	0.00	0.00	0.00	0.00

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
3700.00	0.00	21.91	3700.00	0.00	0.00	0.00	0.00	30	59	24.512 N	109	25	44.094 W
3885.56	0.00	21.91	3885.56	0.00	0.00	0.00	0.00	30	59	24.512 N	109	25	44.094 W
3886.00	0.10	21.91	3886.00	0.00	0.00	0.00	0.00	30	59	24.512 N	109	25	44.094 W
3900.00	3.18	21.91	3899.99	0.37	0.15	0.37	0.15	30	59	24.516 N	109	25	44.092 W
4100.00	47.18	21.91	4076.58	77.38	31.13	77.38	31.13	30	59	25.282 N	109	25	43.749 W
4294.66	90.00	21.91	4146.00	241.62	97.20	241.62	97.20	30	59	26.917 N	109	25	43.017 W
4295.00	90.00	21.91	4146.00	241.94	97.33	241.94	97.33	30	59	26.920 N	109	25	43.016 W
4300.00	90.00	21.91	4146.00	246.57	99.20	246.57	99.20	30	59	26.966 N	109	25	42.995 W
4500.00	90.00	21.91	4146.00	432.12	173.84	432.12	173.84	30	59	28.812 N	109	25	42.168 W
4700.00	90.00	21.91	4146.00	617.67	248.49	617.67	248.49	30	59	30.659 N	109	25	41.342 W
4900.00	90.00	21.91	4146.00	803.22	323.13	803.22	323.13	30	59	32.505 N	109	25	40.515 W
5100.00	90.00	21.91	4146.00	988.77	397.78	988.77	397.78	30	59	34.352 N	109	25	39.688 W
5300.00	90.00	21.91	4146.00	1174.31	472.43	1174.31	472.43	30	59	36.198 N	109	25	38.862 W
5500.00	90.00	21.91	4146.00	1359.86	547.07	1359.86	547.07	30	59	38.045 N	109	25	38.035 W
5700.00	90.00	21.91	4146.00	1545.41	621.72	1545.41	621.72	30	59	39.891 N	109	25	37.208 W
5900.00	90.00	21.91	4146.00	1730.96	696.36	1730.96	696.36	30	59	41.738 N	109	25	36.381 W
5909.75	90.00	21.91	4146.00	1740.00	700.00	1740.00	700.00	30	59	41.828 N	109	25	36.341 W

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
PBHL			4146.00	1740.00	700.00	1740.00	700.00	30	59	41.828 N	109	25	36.341 W

Annotation

MD ft	TVD ft	
3886.00	3886.00	KOP @ 3886' MD / TVD
3886.00	3886.00	Begin 22° / 100' Build
4295.00	4146.00	End Of Build @ 90° Inc
4295.00	4146.00	4295' MD 4146' TVD