

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir  
Use "APPLICATION FOR PERMIT -" for such proposals

2005 SEP 23 PM 1 05

RECEIVED

070 FARMINGTON NM

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Synergy Operating, LLC

OGRID # 163458

3. Address and Telephone No.

PO Box 5513 (505) 325-5449  
Farmington, NM 87499

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

Unit H, 1770' FNL & 960' FEL Sec 12, T29N, R04W

5. Lease Designation and Serial No.

NMNM-10431

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

29-4 Carson 12 # 1

9. API Well No.

30-039-2479300

10. Field and Pool, or Exploratory

Basin Fruitland Coal

11. County or Parish, State

Rio Arriba County  
New Mexico

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

TYPE OF SUBMISSION

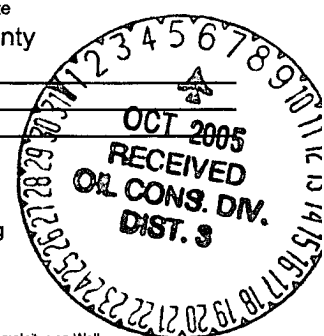
- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☒ Altering Casing  
☐ Other

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or recompletion Report and Log Form)



13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including, estimated date of starting work.  
If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones of pertinent to this work.

Synergy proposes to isolate the existing Fruitland Coal perforated interval with a CIBP at 3640'.

A retrievable whipstock will be installed at 3625', and the well sidetracked at this point with a 4-3/4" bit, and DCs.

The Fruitland Interval will be drilled from 3625' and completed with a Cavity completion to a depth of 3752'+/-.

Following the openhole cavity completion, the whipstock will be removed from the well and the 2-7/8" tubing relanded in the original cased wellbore.

A pumping unit and compressor may also be installed.

Attached is a current wellbore diagram. A new burn pit will be necessary along with a burn pit. These will be placed in the original locations, and no new surface disturbance occurs.

Adhere to previously issued stipulations.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Signed:

Thomas E. Mullins

Title:

Engineering Manager

Date:

09-22-2005

This space for federal or state office use

Approved by:

Conditions of approval if any

Title:

PETER ENG.

Date:

10/3/05

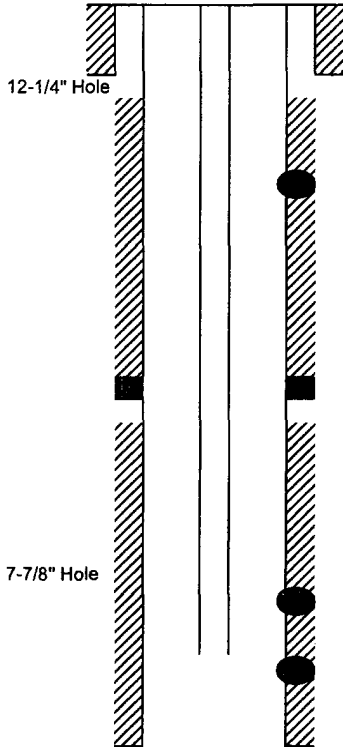
NMOCD

Carson 29-4 12 # 1  
Unit H, Section 12-T29N-R04W  
1770' FNL, 960' FEL  
7112' GL, 13' KB

Araphoe # 7

Spud: 07/12/90  
Completed: 11/7/90

API # 030-039-2479300



8-5/8" 24# K-55 Casing @ 264' w/ 175 sxs  
Circulated 15 bbls cement to surface

TOC from Temp Survey at 400' (No Copy Avail)

2-Sqz Holes at 1110' (See Cmt Data below)

2-7/8" 6.5# J-55 Tubing @ 3696' +/-, SN one jt up (122 jts)

DV Tool @ 2206' (See Cmt Detail Below)

4-Sqz Holes at 3645'

**Fruitland Coal Perforations**

3668' to 3752' (16 holes) Frac w/ 10K 40/70 & 98K# 20/40  
in a X-Linked 50Q Nitrogen Foam at 35 BPM 3300 ATP, ISIP 1565 (0.85 FG)

5-1/2" 17# N-80 LT&C Casing @ 4050', w/ 1st Stage w/ 200 sxs 50/50 Poz 2% gel 0.6% Halad 322  
tail with 200 sxs B w/ 0.4% Halad 344, 0.4% CFR-3 & 2% Super CBL, Good Circ  
Circulate 1.75 hrs, 2nd Stage w/ 500 sxs Howco Lite 0.6% Halad 322, 2% KCl and 1/4# Flocel,  
tail with 50 sxs B neat. Lost Circulation with 20 bbls remaining on final displacement.

Dev Surveys	
275	1/4
840	1/2
1318	3/4
1820	1
2048	1-1/4
2535	1-1/4
3035	1-1/4
3500	1-3/4
4050	1-1/2

PBD: 4003'  
TD: 4050'

**Formation Tops**

San Jose	
Nacimiento	
Ojo Alamo	3248'
Kirtland	3470'
Fruitland	3608'
Pict Cliffs	3753'
TD:	4044'

Formation Name: **Fruitland Coal**

10-10-90 MIRU Bayless Rig # 6 with equipment. NU 5000# Frac Head and BOP. PU six 3-1/8" DCs and GIH with 2-7/8" tubing and bit. Tag Cement at 2145'. Drill out to DV tool at 2202'. Pressure Test 1000#. Continue to Drill out DV tool and GIH to PBD of 4003'. COOH. Run Bit & Scraper 5-1/2" 17# to 4003'. COOH.

10-12-90 RU Basin Perforators. Run CBL # 1 (no pressure), 2nd Pass 1000# pressure, 3rd run 2000#.

10-13-90 Basin perforate four (4) squeeze holes at 3645' KB. GIH w/ Howco RTTS PKR. Set PKR at 2258' Establish rate 4.5 BPM 2365#, mix and pump 150 sxs neat w/ Halad 322. Displace to 3545', leaving approx 100' cement in casing. WOC.

10-14-90 Csg 100#, Tbg 200#. Release PKR. TOOH w/ PKR. GIH w/ bit, DCs, and 2-7/8" tubing. Tag cement at 3475'. Drill cement to 3658' (183') in 4 hrs. Circulate clean. Test Casing to 5000# for 5 mins. No leaks. COOH with tubing. RU Basin and Run CBL # 2 (2000# pressure) from 4003' to 2000'. RD Basin.

10-15-90 GIH w/ BHA & 2-7/8". Circulate hole clean w/ 3% KCl. COOH. RU Basin to perforate Fruitland Coal as follows: 3668', 3669', 3670', 3671', 3672', 3692', 3693', 3694', 3695', 3696', 3744', 3745', 3746', 3750', 3751', and 3752' (sixteen 16 holes).

GIH w/ HES PPI tool, locate collar at 3740, position over perf at 3752'. Treat 16 perfs with 400 gals 15% HCl acid (no detail ?). Move tool below perfs. RU HES to casing. Establish rate of 11.2 BPM at 1500#, ISIP 800#, 5 min 270, 10 min 260#. RU sand line. Fish HES downhole valve in PPI tool. RU to swab. Make 3 runs, recover 23 bbls.

10-16-90 Tbg 15#, make 7 runs, recover 29 bbls. Run # 8 and # 9 no fluid.

10-18-90 SICP = 800#. Blow down. COOH w/ PPI tool. Lay down DCs. NU Frac Head. Test lines to 5000#.

HES, Pump 8000 gals gel pre-pad, ISIP 650#, Fracture Stimulate Fruitland Coal 3668'-3672' (4'), 3692'-3696' (4'), & 3744'-3752' (8') with 50 Quality Nitrogen Foam 10,000# 40/70 sand & 98,000# 20/40 sand at 35 BPM Foam ATP = 3300#, Max = 3600#. ISIP 1565, 5 min = 1019, 10 min = 1009, 15 min = 1000#, Flush was gel water

Open on 1/4" choke, casing drop to 400# after 3.5 hrs.

10-19-05 ??? Pressure, remove choke from line. Blow well down. GIH w/ tubing and SN. Tag sand fill at 3954' which was below all perfs, RU HES Nitrogen truck. Clean out to 4003' PBD.

Set PKR inside casing at 30', with string float. Change out Tubing Head to 3000# head. Recover PKR and float. Landed Tbg at 3816'.

10-21-90 SICP = 1280#, Tbg 65#. Blow down to pit. NU BOP. COOH w/ tubing. RU Basin, Set RBP at 1200'. Load hole and test plug to 1000#. Perforate two (2) holes at 1110'. Establish rate, pump 5 BPM at 1500#.

Mix and pump 300 sxs Class B cement w/ Halad 322. Lost circulation on displacement. No cement to surface. Displace squeeze to 1000#. Hold pressure overnight.

10-22-90 RU Wilson Temp Survey. Run from 990' to surface. Estimate TOC at 400'. GIH w/ DCs and 2-7/8" Tag cement at 990'. Drill 120' cement 1 hr, and GIH to RBP at 1200'. Test Casing to 500# (Only 500#). No Leaks.

TOOH w/ BHA, LD DCs. GIH and circulate sand off of RBP. Release RBP, COOH.

10-23-90 Csg = 700#. Blow well down. GIH w/ 2-7/8" Tubing & SN. Tag sand fill at 3991' (Below all perfs).

Land 2-7/8" Production Tubing at 3816' KB, SN at 3787', total of 126 Jts.

RU to swab well. Swab 5 runs, recover 12 bbls. Rig Down Unit & Equipment.

**Specialty Logs, Misc**  
Mud Log (Raven Ridge)  
Desorption Cuttings (4)  
Desorption Sidewall Cores  
(14) cut, 13 recovered

**Open Hole Logs (Halliburton)**

GR-IES (275'-4044')  
Dens-Neu (2000'-4000')  
Microlog (2000'-4000')  
High Res Density

**Cased Hole Logs**

GR-CCL-CBL (10-12-90)  
GR-CCL-CBL (10-14-90)

Thomas E. Mullins  
Sept 21, 2005