

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 1:06

5. Lease Designation and Serial No.
NMNM-18323

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

070 FARMINGTON NM

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 M, 840' FSL & 1065' FWL Sec 24, T29N, R04W

7. If Unit or CA, Agreement Designation

8. Well Name and No.

29-4 Carson 24 # 1

9. API Well No.

30-039-2482100

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

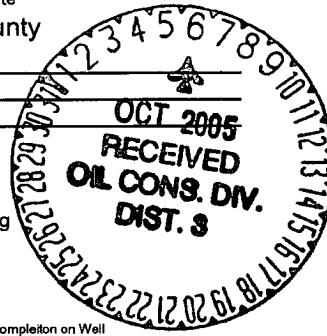
- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

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 3590'.

A retrievable whipstock will be installed at 3585', and the well sidetracked at this point with a 4-3/4" bit, and DCs.

The Fruitland Interval will be drilled from 3585' and completed with a Cavity completion to a depth of 3684'+/-.

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.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

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

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

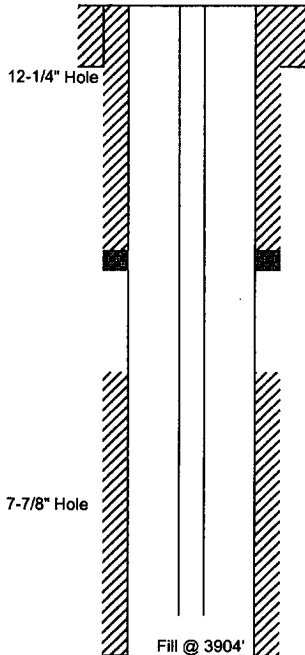
NMOC

NMOC

Carson 29-4 24 # 1
Unit M, Section 24-T29N-R04W
840' FSL, 1065' FWL
7010' GL, 13' KB

Araphoe # 7 Spud: 07/31/90
Bayless Rig # 6 Completed: 11/7/90

API # 030-039-2482100



8-5/8" 24# K-55 Casing @ 244' w/ 180 sxs
Circulated 5 bbls cement to surface

2-7/8" 6.5# J-55 Tubing @ 3880', SN one jt up (127 jts)
ROD STRING AND DH PUMP IN THE WELL

DV Tool @ 1600' (See Cmt Detail Below), Circulated to Surface

TOC @ 2000'

Capillary Suction Tube Tests Run on Samples for Fluid Testing
Result showed lower pH 3.9, Fluid 3% KCl water best

Fruitland Coal Perforations

3619' to 3681' (25 holes) Frac w/ 10K 40/70 & 47K# 20/40
in a X-Linked 70Q Nitrogen Foam at 33 BPM 3100 MTP, ISIP 4417 (Screened Out)

5-1/2" 17# N-80 Casing @ 3999', w/ 1st Stage w/ 200 sxs 50/50 Poz 2% gel 0.6% Halad 322
tail with 225 sxs B w/ 0.4% Halad 344, 0.4% CFR-3 & 2% Super CBL, Good Circ
Circulate 3 hrs, 2nd Stage w/ 300 sxs Howco Lite 0.6% Halad 322, 2% KCl and 1/4# Flocel,
tail with 50 sxs B neat. Circulate 7 bbls cement to surface.

FRAC GRADIENT FRUITLAND COAL (0.75)

Dev Surveys	
247'	1/4
759'	1/2
1500'	1-1/4
2060'	1-1/2
2230'	1
2740'	1-1/4
3245'	2
3453'	4
3711'	2-3/4
4000'	1-1/4

Fill @ 3904'
PBDT: 3955'
TD: 4000'

Formation Tops

San Jose	
Nacimiento	
Ojo Alamo	3250'
Kirtland	3404'
Fruitland	3530'
Pict Cliffs	3685'
Lewis	nde

Formation Name: Fruitland Coal

10-02-90- MIRU Bayless Rig # 6, Unload, Tally & PU DCs & 2-7/8" Tbg w/ bit. Drill out DV Tool, & Test Csg 1000 OK
GIH and Cleanout to 3955' with tubing. COOH, GIH w/ Csg Scraper to PBDT. COOH. Circulate hole w/ 3% KCl water
RU Petro Wireline. Run GR-CCL-CBL from PBDT to 1450'. Good bond from PBDT to 2000'. No Bond 2000' to DV Tool
shown top of DV at 1590'. 200 gals 7-1/2% HCl acid spotted through perfs. Perforate top down (19 Holes) as follows.
3619', 3621', 3635', 3643', 3644', 3645', 3646', 3647', 3657', 3658', 3660', 3664', 3665', 3667', 3673', 3675', 3678', 3679', & 3681'
Attempt to Breakdown Perforations. No chart available on individual BDs as indicated in file. BD perf at 3678', pump 1.1 BPM
at 1440 psi. Perfs referenced to GR-CCL-CBL. Daily report indicates that only 4 good breaks, 8 perfs not be pumped into.
Set SPIT tool above all perfs and Swab well dry in 7 runs, recover 28 bbls water. The next day attempt to BD perfs again
at 3664', 3657', 3643', 3635', 3621', & 3619' (6 holes). Unable to BD at 6000 psi. Pull tubing & tool. RU Petro Wireline
Perforate (2nd Time) 1 SPF @ 3664', 3657', 3643', 3635', 3621', & 3619' (6 additional holes, 25 total now). Prior times used
7.5 % HCl, this time use 15% HCl acid and SPIT tool. Successfully BD each perf, no specific data available.
RU to swab. Swabbed dry in 7 runs, recover 23 bbls water, indications of gas. Pull SPIT Tool
RU Halliburton to Nitrogen Foam Fracture Stimulate (3619' to 3681'). Pump 70 Quality foam treatment, pump 10K lbs 40/70
sand, then 47,500 lbs 20/40 sd. Boragel Frac Fluid, Pad, Initial treating pressure at 3100 psi, original design at 45 BPM
Pad at 33 BPM, drop to 10 BPM, screened out at 2 ppg sand. ISIP 4417, 15 min 3814 psi. Hardly any flush pumped.
Max treating pressure 4600 psi. Flowback well for 2 days. GIH w/ tubing, tag sand fill at 3915' (40' fill). Used N2 to CO.
X-O SK head for 3K head. Land 2-7/8" tubing at 3738' on 10-10-90. SICP 1500 psi on 10-16-90.
Construct surface facilities. Install base for Pump Jack and set separator. Lay lines, Install meter. NOTE THAT RODS
HAVE NOT BEEN RUN FOR THIS WELL.

Specialty Logs, Misc

Sidewall Cores (23 cut)
Mud Log 3000' to TD
Coal Desorption Tests
SEM Analysis
Capillary Suction Tube Tests

Open Hole Logs (Halliburton)

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

Cased Hole Logs

GR-CCL-CBL (10-03-90)

Thomas E. Mullins
Updated 09-23-05

10-14-90 SICP = 1480 psi
11-15-90 First Deliver well, 1425 psi casing, 610 psi tubing.
Note that Carson Forest Restrictions in place during winter
04-30-91 Install Plunger Lift System on the well. Problems with tight spot in the tubing at 670'
05-02-91 MIRU R&S well service. Pull tubing, replace it at tight spot. LD 3 jts of tubing. Land. RD & Release
Utilize Plunger Lift System to Produce well.
10-10-92 Removed 2-400 bbl tanks & Production Facilities
03-20-95 Returned well to production directly into pipeline, no separator, or facilities.
10-09-98 RU B&R Slickline. Csg 425 psi, Tbg zero. RIH w/ fishing tool, recover brush plunger in stop at 3618'. FL @ 1900'
11-19-99 Nitrogen Blow Around to remove water.
12-30-99 RU B&R Slickline. RIH w/ fishing tool, recover stuck plunger at 670', same spot. Ran 2.343" gauge ring, and tagged
up at the same 670' spot
08-22-2000 MIRU Key Rig # 30, Csg 400, Tbg 200. BD Tubing. RU BOPE. COOH Tallying out tubing 120 jts 3635.62', recover
two piston stops and a 2-7/8" piston from the SN landed up one jt. RIH with 2-7/8" tubing, standing valve in the SN up 1 jt.
All Tubing drifted okay. Test tubing to 500 psi. Good. Try and recover standing valve. No recovery due to tight spot located
at 760 feet. Pull Tubing string again. Remove jts listed as being tight. Replace 3 jts. Jt that will not drift is on brm.
Tubing landed at 3,648' KB, SN up one jt.
08-08-2001 MIRU Key Rig # 28 from Escrito Store. Very Long Move. Rode unit to location. Discuss Rig-Up of Unit.
Raise Derrick, NU Rig and Equipment. Blow Down casing and Tubing. Casing to Tank. ND WH, NU BOPE, Change Rams
and Elevators to 2-7/8". Test Operation of BOPE. PU 1 Jt of 2-7/8" Tubing. Unseat Tubing Hanger (Dounut), Pull up. Install
TIW Valve. Close tubing in.. Casing left open to tank overnight. SDFN.
08-09-2001 Crew arrive at 8:00 hrs. Blow down tubing. Start Unit. Pull 1 full stand of 2-7/8" tubing. Install Baker 5-1/2" 17# Lockset
Packer with x-o for 2-3/8" to 2-7/8" and a 2-3/8" TIW valve. Close TIVV, Run tubing and packer in the hole and set PKR at 35', in
compression, string wt of tubing below. Back off of Packer, leaving valve and PKR in the hole. Pull 2 jts of tubing.. RD floor and
ND BOPE. ND 11" x 7-1/16" 3000# tubing head with bad valves and 2" outlets. NU 11" x 7-1/16" 3000# Tubinghead with 3-1/16" 3000#
outlet and 3000# ball valve. Test tubing seal 500# would not test to 1000#. Need to plastic energize and test at a later date. NU BOPE.
GIH and screw into PKR. Release PKR and COOH tallying 2-7/8" 6.5# J-55 Tubing, total of 3,639.37'. SN was up one jt.
GIH with production tubing, rabbit and tally 10 additional jts to land pump deeper, as follows: 1 jt Mud Anchor OE (31.20'), Perf Sub
(6.00'), New SN (1.10), and 126 Jts 2-7/8" (Total of 127 Jts in hole). Tag Fill at 3904.68'. Lay down 2 jts of tubing, Tubing Landed
at 3,870.77' + 10' KB = 3,880.77', SN @ 3849.55'. Top Perf @ 3619', Btm Perf @ 3681' (intake 168" below btm perf).
Land Tubing, ND BOPE, NU Wellhead, Rattigan, and pumping Tee (Threads bad in pumping tee), RD Floor, RU to run rods.