Form 3160-5
(June 1990)

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**

2006 SEP 7 PM 2 16

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

RECEIVED
070 FARMINGTON NM

*SUBMIT IN TRIPLICATE*

5. Lease Designation and Serial No.
NMNM - 99720

6. If Indian, Allottee or Tribe Name

SEP 2006
RECEIVED
OIL CONS. DIV.
DIST. 3

7. If Unit or CA, Agreement Designation

1. Type of Well

[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Bois d-Arc Encino 15 #1

2. Name of Operator
Synergy Operating LLC

9. API Well No.
30-031-21008

3. Address and Telephone No.
PO Box 5513, Farmington, NM 87499 (505) 325-5449

10. Field and Pool, or Exploratory
WC20N05W15A (#97258)
Undesignated Mesaverde

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

Unit Letter A, 250' FNL, 920' FEL, Sec 15, T20N-R05W
BHL: Unit Letter A, 151' FNL, 736' FEL, Sec 15, T20N-R05W

11. County or Parish, State
McKinley Co., NM

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

| TYPE OF SUBMISSION | TYPE OF ACTION | |
|---|---|---|
| [X] Notice of Intent | [X] Abandonment | [ ] Change of Plans |
| [ ] Subsequent Report | [ ] Recompletion | [ ] New Construction |
| [ ] Final Abandonment Notice | [ ] Plugging Back | [ ] Non-Routine Fracturing |
| | [ ] Casing Repair | [ ] Water Shut-Off |
| | [ ] Altering Casing | [ ] Converion to Injection |
| | [ ] Other | [ ] Dispose Water |

(Note: Report results of multiple completon 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.

**See attached P & A procedure**

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

Signed: _____ Title: Operations Manager Date: Sept 1, 2006

This space for federal or state office use

Approved by: **Original Signed: Stephen Mason** Title: _____ Date: **SEP 12 2006**

Conditions of approval if any

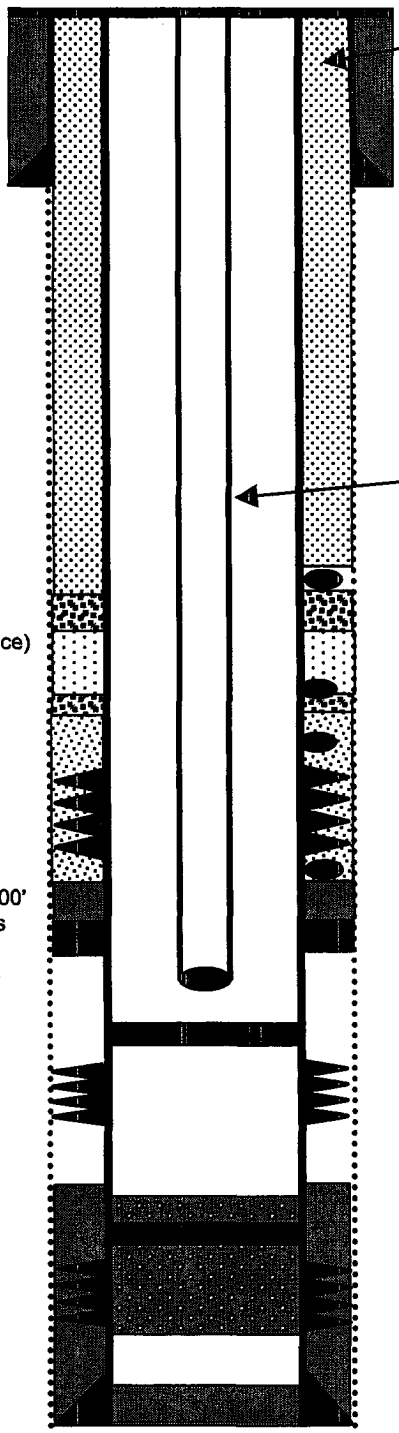
Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction

**NMOCD**

# *Bois d' Arc Encino 15 #1*
## *Current*
**Menefee Coal Well**

**250' FNL & 950' FEL, Section 15, T-20-N, R-5-W**
**(BHL: 151' FNL & 736' FSL, Section 15)**
**McKinley County, NM / API #30-031-21008**
**Lat: N _____/ Long: W _____**

Today's Date: **9/5/06**
Spud: 11/12/01
Completions:
Dakota 3/22/02
Mancos 3/25/02
Meneffe Coals 11/12/02
Elevation: 6725' GL
6736' KB



Circulate 11 bbls cement to surface from holes at 1225'

8.625" 24#, J-55 Casing set @ 230'
286 cf cement, Circulated to surface

12.25" Hole

Kirtland @ 245'

Fruitland @ 485'

Pictured Cliffs @ 590'

2.375" Tubing set at 3305'
(102 jts, SN 3273' with rods and pump)

La Ventana @ 1271'

Perforate @ 1225' (Sqz with 264 cf, cir. To surface) (2002)

Perforate @ 2216'
Sqz with 22 sxs (2002)

Perforate @ 2500'
Sqz with 50 sxs (2002)

Menefee @ 2851'

Menefee Coal Perforations:
2778' – 2826'

Perforate @ 2870' & 2500'
Suicide sqz with 129 sxs (2002)

TOC @ 2970' (CET)

DV Tool @ 3024'
Cemented with 617 cf

Set CR @ 3950' (2002)

Gallup @ 4028'

Mancos Perforations:
4030' – 4150'

TOC @ 4320' (CET)

P&A Dakota Zone 5126' – 5162'
With 85 cf cement (2002)

Dakota @ 4881'

Dakota Perforations:
5126' – 5162'

5.5" 15.5#, J-55 Casing @ 5289'
Cemented with 394 cf

7.875" Hole

**TD 5298'**
**PBTD 5287'**

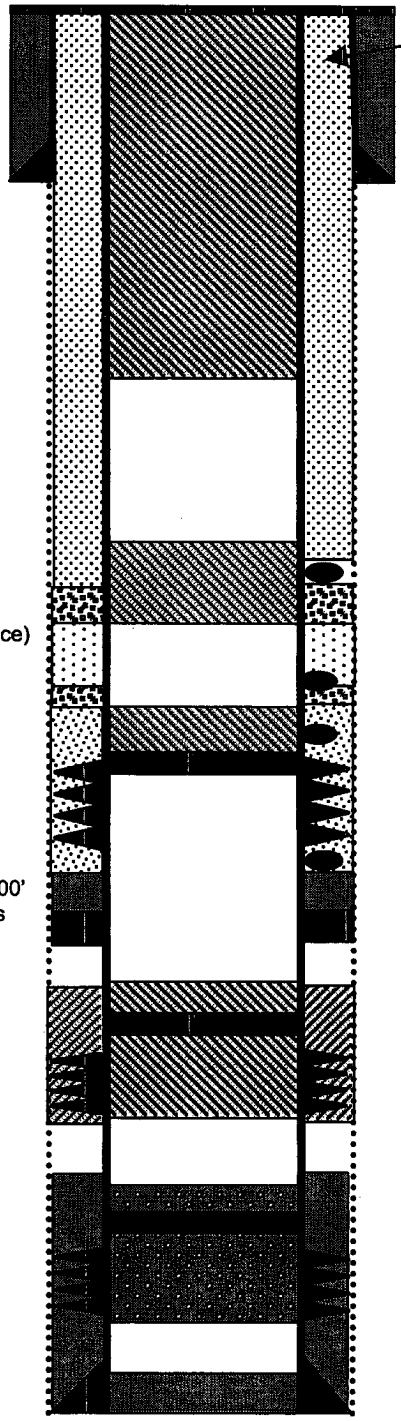
# *Bois d' Arc Encino 15 #1*

## *Proposed P&A*

**Menefee Coal Well**

**250' FNL & 950' FEL, Section 15, T-20-N, R-5-W**
**(BHL: 151' FNL & 736' FSL, Section 15)**
**McKinley County, NM / API #30-031-21008**
**Lat: N _____/ Long: W _____**

Today's Date: **9/5/06**
Spud: 11/12/01
Completions:
Dakota 3/22/02
Mancos 3/25/02
Menifee Coals 11/12/02
Elevation: 6725' GL
6736' KB



Circulate 11 bbls cement to surface from holes at 1225'

8.625" 24#, J-55 Casing set @ 230'
286 cf cement, Circulated to surface

12.25" Hole

Kirtland @ 245'

Fruitland @ 485'

Pictured Cliffs @ 590'

**Plug #4: 640' – 0'**
Type III cement, 70 sxs

La Ventana @ 1271'

Perforate @ 1225' (Sqz with 264 cf, cir. To surface) (2002)

Perforate @ 2216'
Sqz with 22 sxs (2002)

Perforate @ 2500'
Sqz with 50 sxs (2002)

Menefee @ 2851'

Perforate @ 2870' & 2500'
Suicide sqz with 129 sxs (2002)

**Plug #3: 1321' – 1175'**
Type III cement, 20 sxs

**Set Cement Ret @ 2728'**

**Plug #2: 2728' – 2628'**
Type III cement, 16 sxs

Menefee Coal Perforations:
2778' – 2826'

TOC @ 2970' (CET)

DV Tool @ 3024'
Cemented with 617 cf

Existing CR @ 3950' (2002)

Gallup @ 4028'

Mancos Perforations:
4030' – 4150'

**Plug #1: 4150' – 3900'**
Type III cement, 97 sxs:
66 sxs outside the casing and 31 sxs inside.

TOC @ 4320' (CET)

P&A Dakota Zone 5126' – 5162'
With 85 cf cement (2002)

Dakota @ 4881'

Dakota Perforations:
5126' – 5162'

5.5" 15.5#, J-55 Casing @ 5289'
Cemented with 394 cf

7.875" Hole

**TD 5298'**
**PBTD 5287'**

# PLUG AND ABANDONMENT PROCEDURE

## Bois d' Arc Encino 15 #1

Menefee Coal Completion
250' FNL and 920' FEL, Section 15, T-20-N, R-5-W
(BHL: 151' FNL & 736' FEL, Section 15)
McKinley County, New Mexico, API 30-031-21008

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield.

1. Install and test rig anchors. Prepare waste fluid holding pit. Comply with all NMOCD, BLM and Synergy safety rules and regulations. Conduct safety meeting for all personnel on location. MIRU daylight pulling unit. NU relief line and blow well down; kill with water as necessary. ND wellhead and NU BOP and stripping head; PT BOP.

2. PU on rods and unseat pump. Re-seat pump. PT 2-3/8" tubing to 1000#. POOH and LD ¾" rods and pump. TOOH and tally 102 joints, 2-3/8" tubing, SN at 3273' (total tally 3305'). If 2-3/8" tubing does NOT PT, use a workstring. Run a 5.5" gauge ring or casing scraper to 2730', before setting plug #2.

3. **Plug #1 (Gallup (Mancos) perforations and top, 3950' – ~~3850~~ 3621'):** TIH with CR stinger and tag Baker cement retainer at 3950' (set Nov 7, 2002). Sting into and establish rate into the Mancos perforations. Sting out and then pump 100 bbls water down the tubing to attempt to establish circulation to surface; circulate well clean. Mix and pump 97 sxs Type III cement, squeeze 66 sxs outside the casing and leave ~~31~~ sxs inside to fill the Mancos perforations. TOOH with tubing.

4. **Plug #2 (Menefee Coal perforations, 2728' - 2628'):** Set a 5.5" wireline or tubing CR at 2728'. Load the casing with water. Pressure test casing to 800#. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 16 sxs Type III cement and spot a balanced plug inside the casing to isolate the Menefee perforations. PUH to 1321'.

5. **Plug #3 (LaVentana top, 1321' – 1221'):** Mix 16 sxs cement and spot a balanced plug inside the casing to cover the LaVentana top. PUH to 640'.

6. **Plug #4 (Pictured Cliffs, Fruitland, Kirtland tops and 8.625" Surface casing shoe, 640' – Surface):** Connect the pump line to the bradenhead. Attempt to pressure test the BH annulus to 300#. Note the volumes it takes to load. If the BH annulus tests, then with tubing at 640', establish circulation out casing valve with water. Mix approximately 70 sxs cement and fill the inside of the 5.5" casing to surface, circulate good cement out casing valve. TOH and LD tubing. Shut in well and WOC. If the BH annulus does not test, then perforate at the appropriate depth and set a plug to cover the Pictured Cliffs, Fruitland, Kirtland and surface casing shoe and fill the BH annulus and casing annulus as necessary. TOH and LD tubing. Shut in well.

7. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.