MEYER A-29 NO. 2
PLUG AND ABANDON

Location: 660' FSL & 660' FWL, Sec. 29, T-22S, R-36E
Lea County, NM

Elevation: 3523' DF (10' AGL)

Completion: Seven Rivers
TD: 3824'
Perfs: 3600'-3824' (6-1/4" open hole)

Casing/Tubing Specifications:

O.D. (in)	Weight (lbs/ft)	Grade	Depth (ft)	Drift (in)	Collapse (psi)	Burst (psi)	Capacity (bbl/ft)	Capacity (ft^3/ft)
9-5/8	32.3	H-40	363	8.845	1,400	2,270	.0787	.4418
9-5/8	36.0	H-40	1518	8.765	1,740	2,560	.0773	.4340
7	23.0	J-55	3600	6.241	3,270	4,360	.0393	.2210
2-7/8	6.5	N-80		2.347	11,160	10,570	.00579	.03250

9-5/8" casing set @ 1518' with 450 sx cement.
7" casing set @ 3600' with 425 sx cement. No record of TOC.
Use safety factor of 70% for collapse and burst pressures.
Assume 2-7/8" workstring will be used.

Notes:
1. All cement slurry used in this procedure shall be Class "C" with 2% CaCl mixed @ 14.8 ppg.
2. All mud shall be 9.5 ppg with 25 lbs gel/bbl brine.
3. Call Kandy Lawson to notify BLM prior to commencing any work.

Recommended Procedure:

1. Prepare well for P&A:

   A. MIRU. Bleed well pressure down. Kill well with 10 ppg brine if needed. ND wellhead and NU BOP.
   B. PU and TIH w/6-1/8" bit, 7" casing scraper, and 2-7/8" workstring to 3570'. POOH.

2. Pump bottom cement plugs:

   A. MIRU cement services.
   B. GIH w/7" cement retainer, setting tool, and 2-7/8" WS. Set cement retainer @ 3550'.

      1. Test tubing to 1000 psi.
      2. Sting out of retainer and circulate hole with 135 bbls mud. Test casing to 500 psi.
      3. Sting back into retainer and pressure annulus to 500 psi. Establish pump-in rate.

   C. Pump 60 sx cement to fill up 7" casing and open hole from 3550' to 3824'. Maximum surface pressure 1000 psi.

   D. Sting out of retainer and spot 25 sx cement on top from 3550' to 3401'. Displace cement with 19 bbls mud.
   E. POOH laying down WS to 3250'. Load hole with 1 bbl mud.
   F. Pump 25 sx cement and displace with 18 bbls mud to spot plug across base of salt from 3250' to 3101'.
   G. POOH laying down WS to 1660'. Load hole with 3 bbls mud.
   H. Pump 15 sx cement and displace with 9 bbls mud to spot plug across top of salt from 1660' to 1570'.
   I. POOH with WS.

3. Spot cement plug across surface casing shoe:

   A. MIRU wireline services.
   B. RIH with a 4" casing gun loaded 4 JSPF (120° phase, .4" EHD) and CCL.
   C. Perforate 7" production casing @ 1568'. POOH. GIH w/WS to 1568'.
   D. Close BOP. Pump 50 bbls mud to load hole and establish circulation up 9-5/8" x 7" annulus.
   E. Pump 35 sx cement and displace with 8 bbls mud to spot a cement plug across 9-5/8" casing shoe from 1570' to 1451' both in and out of 7" casing.

      Note: If circulation cannot be achieved due to cement already behind 7" casing, pump 20 sx cement to spot a plug inside 7" casing from 1570' to 1451'. Do not exceed 1000 psi surface pressure.

   F. POOH laying down WS.

4. Set surface plug:

   A. RIH with a hollow steel carrier with circulation jets loaded 2 JSPF (0° phase, .4" EHD, decentralized) and CCL.
   B. Perforate 7" production casing @ 150'. POOH.
   C. GIH w/1 joint 2-7/8" tubing. Close BOP. Pump 10 bbls mud to load hole and establish circulation up 9-5/8" x 7" annulus.
   D. Pump 55 sx cement (10 sx excess) to fill up 9-5/8" annulus and set surface plug in 7" casing.

      Note: If cement does not circulate to surface, pump 25 sx down 9-5/8" x 7" annulus.

   E. POOH with tubing.
   F. RD wireline and cement services.

5. Prepare surface location for abandonment:

   A. ND BOP and cut off all casing strings at the base of the cellar or 3' below the final restored ground level (whichever is deeper). RDMO pulling unit.

B. Fill the casing strings (it necessary) from the cement plug to surface with cement.
C. Cover the wellbore with a metal plate at least 1/4" thick, welded in place, or a cement cap extending radially at least 12" beyond the 9-5/8" casing and at least 4" thick.
D. Erect an abandonment marker according to the following specifications:

1. Marker must be at least 4" diameter pipe, 10' long with 4' above restored ground level, and embedded in cement.
2. Marker must be capped and inscribed with the following well information:

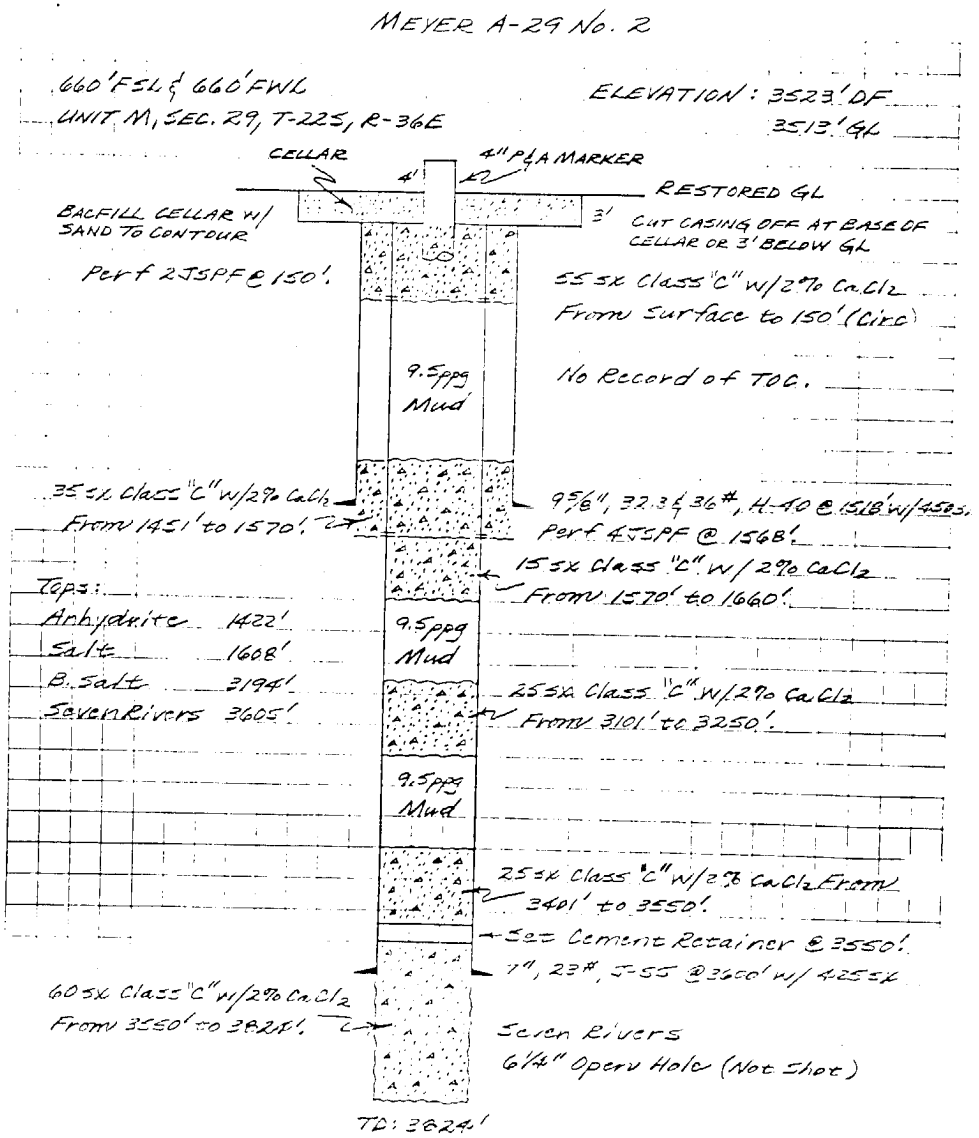
Meyer A-29 No. 2
Unit M, Sec. 29, T-22S, R-36E
Lea County, NM
Date

Note: 1/4" metal plate can be welded to marker and then to the casing after the marker is set in cement.

E. Cut off dead-man anchors below ground level and remove markers. Fill in cellar and workover pit.
F. Remove all equipment, concrete bases, and pipe not in use.
G. Clean and restore location to its natural state. Reseed according to BLM requirements.

6. Send a copy of the well service report and final P&A schematic to Kandy Lawson in the Hobbs Office so the proper forms can be filed.

Approved:

Tom C. Cadenhead Engineering Technician	1-22-90 Date
Joe A. Mell Engineer	1-25-90 Date
D.E. Petty Supervising Production Engineer	2/25/90 Date
Richard L. Manning Division Engineering Manager	3-12-90 Date
D.M. Ham Production Superintendent	3/13/90 Date

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