

033-06025



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PLUG AND ABANDONMENT PROCEDURE

October 8, 2003

Federal 8-40-17 #1
 Doe Canyon Field
 3179' FEL & 1699' FNL,
 Section 8, T-40-N, R-17-W / API #05-033-06025
 Lat: N / Long: W
 Dolores County, Colorado

Note: All cement volumes use 10% per 1000' of depth, both inside and outside; or use 100% excess outside casing, 50' excess inside casing and 50' excess for a casing annulus, whichever is greater. The stabilizing wellbore fluid will be at least 8.3 ppg, sufficient to balance all exposed formation pressures. All cement is ASTM Type II, mixed at 15.6ppg with a 1.18 cf/sx yield.

1. Install and test location rig anchors. Prepare blow pit. Comply with all CO&GC, BLM, and Kinder Morgan safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line. Blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.
2. PU, tally and TIH with 2-3/8" workstring and tag existing bridge plug at 8400'. Load well with fresh water and establish circulation. Do not circulate well clean unless there is evidence of a casing leak. Casing is currently filled with corrosion inhibited water which will be left between plugs. Test casing to 1000#. If casing does not test, then spot or tag subsequent plugs as appropriate. Note: Install a nipple profile above the first joint of tubing. After loading well, drop tubing plug and pressure test tubing to 1000#. Retrieve tubing plug.
3. **Plug #1 (Leadville top, 8400' - 8300')**: Mix 35 sxs cement and spot a balanced plug inside casing above the existing CIBP to isolate the Leadville top. LD tubing to 5872'.
4. **Plug #2 (Paradox Salt and Desert Creek tops, 5872' - 5714')**: Mix 47 sxs cement and spot a balanced plug inside casing to cover the Paradox Salt and Desert Creek tops. LD tubing to 3990'.
5. **Plug #3 (Hermosa top, 3990' - 3890')**: Mix 29 sxs cement and spot a balanced plug inside casing to cover the Hermosa top. LD tubing to 2370'.
6. **Plug #4 (Shinarump top, 2370' - 2270')**: Mix 29 sxs cement and spot a balanced plug inside casing to cover the Shinarump top. LD tubing to 1630'.
7. **Plug #5 (9-5/8" shoe and Chinle top, 1630' - 1448')**: Mix 44 sxs cement and spot a balanced plug inside casing to cover the 9-5/8" shoe and Chinle top. LD tubing to 90'.
8. **Plug #6 (Surface, 90' - Surface')**: RU on bradenhead annulus and test to 300#. RU on intermediate annulus and test to 300#. If both annuli test, mix 27 sxs cement and spot a balanced plug inside casing to cover the 13-3/8" shoe and surface. LD all tubing. If both annuli do not test perforate and squeeze as appropriate.
9. ND BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, and cut off anchors.

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Current

Doe Canyon Field
3179' FEL, 1699' FNL, Section 8, T-40-N, R-17-W
Dolores County, CO
API # 05-033-06025

Today's Date: 10/08/03
Spud: 06/08/77
Comp: 12/10/77
Elevation: 7684' KB

17-1/2" hole to 40'

13-3/8" 48# Casing set @ 40'
Redmix Cement to surface

WELL HISTORY

July 87: TA'd well with CIBP at 8400'

Reported Tops:

Chinle @ 1488'

12-1/4" hole to 1580'

9-5/8" 36# Casing set @ 1580'
Cemented with 625 sxs Lite and
class B (min. 735 CF). Calculated
cement to surface (70% eff).

Shinarump Congl. @ 2320'

Hermosa @ 3940'

Desert Creek @ 5764'

Paradox Salt @ 5822'

Bridge Plug set @ 8400'

Leadville @ 8887'

Leadville Perforations:
8921' - 9080'

8-3/4" hole to 9295'

7" 32, 26, & 23# Casing Set @ 9295'
Cemented with 2000 sxs lite and class
B (min. 2360 CF). Calculated
cement to surface (70% eff)

TD 9295'
PBD 8400'

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Proposed P&A

Doe Canyon Field

3179' FEL, 1699' FNL, Section 8, T-40-N, R-17-W

Dolores County, CO

API # 05-033-06025

Today's Date: 10/08/03
Spud: 06/08/77
Comp: 12/10/77
Elevation: 7684' KB

17-1/2" hole to 40'

Reported Tops:

Chinle @ 1498'

12-1/4" hole to 1580'

Shinarump Congl. @ 2320'

Hermosa @ 3940'

Desert Creek @ 5764'

Paradox Salt @ 5822'

Leadville @ 8887'

8-3/4" hole to 9295'

TD 9295'
PBD 8400'

13-3/8" 48# Casing set @ 40'
Redimb. Cement to surface

Plug #6: 90' - Surface
Cement with 27 sxs

Plug #5: 1630' - 1448'
Cement with 44 sxs

9-5/8" 36# Casing set @ 1580'
Cemented with 625 sxs Lite and
class B (min. 735 CF). Calculated
cement to surface (70% eff).

Plug #4: 2370' - 2270'
Cement with 29 sxs

Plug #3: 3990' - 3890'
Cement with 29 sxs

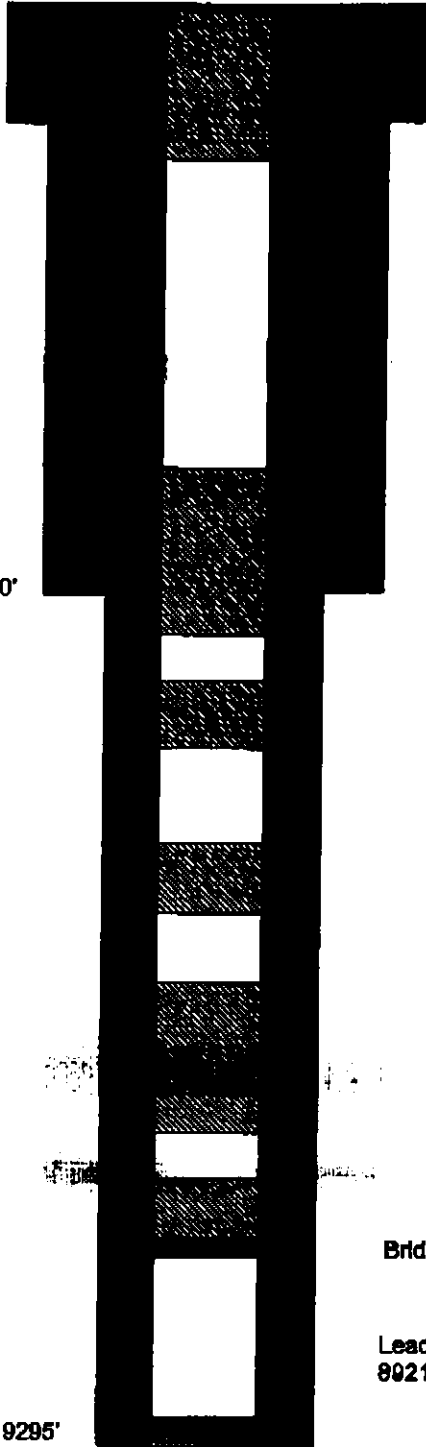
Plug #2: 5872' - 5714'
Cement with 47 sxs

Plug #1: 8400' - 8300'
Cement with 35 sxs

Bridge Plug set @ 8400' (7/87)

Leadville Perforations:
8921' - 9080'

7" 32, 26, & 23# Casing set @ 9295'
Cemented with 2000 sxs lite and class
B (min. 2360 CF). Calculated
cement to surface (70% eff)



A-Plus Well Service
Complete Plug Abandonment Services

12/30/2003

Federal 8-40-17 #1 Cement Calculations

Note: The Colorado BLM cementing excess is 10% per 1000' of depth for both inside or outside the casing.
The Farmington BLM office cementing excess is 50' for inside plugs, 100% excess for outside plugs,
and 50' for annulus excess.

These calculations use the greater standard at each plug.

Plug	Bottom (ft)	Top (#)	Plug Length (ft)	Casing Size (in)	Inside Factor (ft ³ /ft)	Excess Type	Excess Inside Sxs	Hole Size (in)	Outside Factor (ft ³ /ft)	Excess Outside Sxs	Total Sxs
#1 In 7", 23#	8400	8300	100	7	0.221 Farm BLM Cobo 10%	50' 83%	28.09 34.27				35
#2 In 7", 23#	5872	5714	158	7	0.221 Farm BLM Cobo 10%	50' 57%	38.96 48.46				47
#3 In 7", 23#	3980	3890	100	7	0.221 Farm BLM Cobo 10%	50' 38%	28.09 25.85				29
#4 In 7", 23#	2370	2270	100	7	0.221 Farm BLM Cobo 10%	50' 22%	28.09 22.85				29
#5 In 7", 23#	1630	1448	182	7	0.221 Farm BLM Cobo 10%	50' 14%	43.45 38.86				44
#6 In 7", 23#	90	0	90	7	0.221 Farm BLM Cobo 10%	50' 10%	26.22 18.54				27

Federal 8-40-17 #1 Total sxs to P&A (includes 20 sxs for marker): 231