

Co-MAN

*[Signature]*  
AUTHORIZATION TO PROCEED

BBLS to pit 8

4025 TDL

31/12/2091

AV6 CEMENT 117 BBL/M.

ADAMS 5188119 545 ELP = 553P x 30% of 0257

Bump plus 540 PSI at 874 AM. Fleet (01/01/14)

115 8/14 250 280 1372 min

17 JUL 70 012 ISC 0118 OM

[illegible]

9 mm 784 one tsd 50' 8 of

10 8:03 PST 190 1376 min 5

0018 SIC

DESCRIPTION OF JOB EVENTS	DATE	TIME	LOCATION
SHFT 6:35	11/13	11:15	1300 PACE 758

## JOB SUMMARY

class: p3t WASH+CP, K8 norm, 14901251160011 WCHAK 600745 330211XL, 821116L

Water plug displaced 45 ft HS H<sub>2</sub>O bump placed 180 psf Load at 1 ft pressure water loss.

11/13/11, 12/1/11, 12/15/11, 12/29/11, 1/12/12, 1/26/12, 2/9/12, 2/23/12, 3/7/12, 3/21/12, 4/4/12, 4/18/12, 5/2/12, 5/16/12, 5/30/12, 6/13/12, 6/27/12, 7/11/12, 7/25/12, 8/8/12, 8/22/12, 9/5/12, 9/19/12, 10/3/12, 10/17/12, 10/31/12, 11/14/12, 11/28/12, 12/11/12, 12/25/12, 1/8/13, 1/22/13, 2/5/13, 2/19/13, 3/5/13, 3/19/13, 4/2/13, 4/16/13, 4/30/13, 5/14/13, 5/28/13, 6/11/13, 6/25/13, 7/9/13, 7/23/13, 8/6/13, 8/20/13, 9/3/13, 9/17/13, 9/30/13, 10/14/13, 10/28/13, 11/11/13, 11/25/13, 12/9/13, 12/23/13, 1/6/14, 1/20/14, 2/3/14, 2/17/14, 3/3/14, 3/17/14, 3/31/14, 4/14/14, 4/28/14, 5/12/14, 5/26/14, 6/9/14, 6/23/14, 7/7/14, 7/21/14, 8/4/14, 8/18/14, 9/1/14, 9/15/14, 9/29/14, 10/13/14, 10/27/14, 11/10/14, 11/24/14, 12/8/14, 12/22/14, 1/5/15, 1/19/15, 2/2/15, 2/16/15, 2/28/15, 3/12/15, 3/26/15, 4/9/15, 4/23/15, 5/7/15, 5/21/15, 6/4/15, 6/18/15, 7/2/15, 7/16/15, 7/30/15, 8/13/15, 8/27/15, 9/10/15, 9/24/15, 10/8/15, 10/22/15, 11/5/15, 11/19/15, 12/3/15, 12/17/15, 1/10/16, 1/24/16, 2/7/16, 2/21/16, 3/7/16, 3/21/16, 4/4/16, 4/18/16, 5/2/16, 5/16/16, 5/30/16, 6/13/16, 6/27/16, 7/11/16, 7/25/16, 8/8/16, 8/22/16, 9/5/16, 9/19/16, 10/3/16, 10/17/16, 10/31/16, 11/14/16, 11/28/16, 12/11/16, 12/25/16, 1/8/17, 1/22/17, 2/5/17, 2/19/17, 3/5/17, 3/19/17, 4/2/17, 4/16/17, 4/30/17, 5/14/17, 5/28/17, 6/11/17, 6/25/17, 7/9/17, 7/23/17, 8/6/17, 8/20/17, 9/3/17, 9/17/17, 9/30/17, 10/14/17, 10/28/17, 11/11/17, 11/25/17, 12/9/17, 12/23/17, 1/6/18, 1/20/18, 2/3/18, 2/17/18, 3/3/18, 3/17/18, 3/31/18, 4/14/18, 4/28/18, 5/12/18, 5/26/18, 6/9/18, 6/23/18, 7/7/18, 7/21/18, 8/4/18, 8/18/18, 9/1/18, 9/15/18, 9/29/18, 10/13/18, 10/27/18, 11/10/18, 11/24/18, 12/8/18, 12/22/18, 1/5/19, 1/19/19, 2/2/19, 2/16/19, 2/28/19, 3/12/19, 3/26/19, 4/9/19, 4/23/19, 5/7/19, 5/21/19, 6/4/19, 6/18/19, 7/2/19, 7/16/19, 7/30/19, 8/13/19, 8/27/19, 9/10/19, 9/24/19, 10/8/19, 10/22/19, 11/5/19, 11/19/19, 12/3/19, 12/17/19, 1/10/20, 1/24/20, 2/7/20, 2/21/20, 3/7/20, 3/21/20, 4/4/20, 4/18/20, 5/2/20, 5/16/20, 5/30/20, 6/13/20, 6/27/20, 7/11/20, 7/25/20, 8/8/20, 8/22/20, 9/5/20, 9/19/20, 10/3/20, 10/17/20, 10/31/20, 11/14/20, 11/28/20, 12/11/20, 12/25/20, 1/8/21, 1/22/21, 2/5/21, 2/19/21, 3/5/21, 3/19/21, 4/2/21, 4/16/21, 4/30/21, 5/14/21, 5/28/21, 6/11/21, 6/25/21, 7/9/21, 7/23/21, 8/6/21, 8/20/21, 9/3/21, 9/17/21, 9/30/21, 10/14/21, 10/28/21, 11/11/21, 11/25/21, 12/9/21, 12/23/21, 1/6/22, 1/20/22, 2/3/22, 2/17/22, 3/3/22, 3/17/22, 3/31/22, 4/14/22, 4/28/22, 5/12/22, 5/26/22, 6/9/22, 6/23/22, 7/7/22, 7/21/22, 8/4/22, 8/18/22, 9/1/22, 9/15/22, 9/29/22, 10/13/22, 10/27/22, 11/10/22, 11/24/22, 12/8/22, 12/22/22, 1/5/23, 1/19/23, 2/2/23, 2/16/23, 2/28/23, 3/12/23, 3/26/23, 4/9/23, 4/23/23, 5/7/23, 5/21/23, 6/4/23, 6/18/23, 7/2/23, 7/16/23, 7/30/23, 8/13/23, 8/27/23, 9/10/23, 9/24/23, 10/8/23, 10/22/23, 11/5/23, 11/19/23, 12/3/23, 12/17/23, 1/10/24, 1/24/24, 2/7/24, 2/21/24, 3/7/24, 3/21/24, 4/4/24, 4/18/24, 5/2/24, 5/16/24, 5/30/24, 6/13/24, 6/27/24, 7/11/24, 7/25/24, 8/8/24, 8/22/24, 9/5/24, 9/19/24, 10/3/24, 10/17/24, 10/31/24, 11/14/24, 11/28/24, 12/11/24, 12/25/24, 1/8/25, 1/22/25, 2/5/25, 2/19/25, 3/5/25, 3/19/25, 4/2/25, 4/16/25, 4/30/25, 5/14/25, 5/28/25, 6/11/25, 6/25/25, 7/9/25, 7/23/25, 8/6/25, 8/20/25, 9/3/25, 9/17/25, 9/30/25, 10/14/25, 10/28/25, 11/11/25, 11/25/25, 12/9/25, 12/23/25, 1/6/26, 1/20/26, 2/3/26, 2/17/26, 3/3/26, 3/17/26, 3/31/26, 4/14/26, 4/28/26, 5/12/26, 5/26/26, 6/9/26, 6/23/26, 7/7/26, 7/21/26, 8/4/26, 8/18/26, 9/1/26, 9/15/26, 9/29/26, 10/13/26, 10/27/26, 11/10/26, 11/24/26, 12/8/26, 12/22/26, 1/5/27, 1/19/27, 2/2/27, 2/16/27, 2/28/27, 3/12/27, 3/26/27, 4/9/27, 4/23/27, 5/7/27, 5/21/27, 6/4/27, 6/18/27, 7/2/27, 7/16/27, 7/30/27, 8/13/27, 8/27/27, 9/10/27, 9/24/27, 10/8/27, 10/22/27, 11/5/27, 11/19/27, 12/3/27, 12/17/27, 1/10/28, 1/24/28, 2/7/28, 2/21/28, 3/7/28, 3/21/28, 4/4/28, 4/18/28, 5/2/28, 5/16/28, 5/30/28, 6/13/28, 6/27/28, 7/11/28, 7/25/28, 8/8/28, 8/22/28, 9/5/28, 9/19/28, 10/3/28, 10/17/28, 10/31/28, 11/14/28, 11/28/28, 12/11/28, 12/25/28, 1/8/29, 1/22/29, 2/5/29, 2/19/29, 3/5/29, 3/19/29, 4/2/29, 4/16/29, 4/30/29, 5/14/29, 5/28/29, 6/11/29, 6

393 in Jan 11 / 0 in 11 pump / 122 / 36 / 135 are feet pump / 203 only 41 / 131 ft

INSTRUCTIONS PRIOR TO JOB

TREATMENT RATE

## CONCLUSIONS

### PRESSURE LIMITATIONS

## FORMATION

E-mail: [bisonoil1@gwestoffice.net](mailto:bisonoil1@gwestoffice.net)

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-ax: 303-298-8143

0106-067-506: 2010

DEVELOPMENT, COMMUNICATION, AND  
PHYSICS: 202-296-3010

Denver Colorado 80202

1738 Wynkoop St., Ste. 102



**BISON OIL WELL CEMENTING, INC.**

FOREMAN (at New)

LOCATION BK 37+17

REF. INVOICE # 10844