

# McILNAY-ADAMS & CO., INC.

**McILNAY-ADAMS**

152 N. DURBIN • CASPER, WYOMING 82601

PETROLEUM CONSULTING ENGINEERS &amp; PROPERTY MANAGEMENT

WORKOVER REPORTS

REGISTERED PROFESSIONAL ENGINEERS

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Burton & Hawks, Inc.  
Spaulding #5  
Lone Pine Field  
Jackson County, Colorado

8-4-75

Moved in and rigged up pulling unit. Pulled tubing and tallied. Installed BOP. Rigged up Petrolog. Ran GR from 2600 - 1615'. Ran Cement Bond Log from 2674 - 1600'. Top of cement @ 1700'. Good to fair bond isolating zone. Plugged back w/1080# 10-20 sand. Waited 1 1/2 hrs. Ran tubing. Found PBD @ 2596'. Circulated out to 2600'. Displaced w/60 Bbls 2% CaCl. CIW & SDFN.

8-5-75

Pulled tubing. Plugged back w/20-40 sand to 2593' K.B. Set drillable bridge plug @ 2593' K.B. Installed BOP and pressure tested casing and BOP to 3000 psig for 15 min - held okay. Perforated Dakota from 2547 - 2559' w/25 holes. Used cased type perf. gun. Ran tubing w/Lok Set Packer. Set packer @ 2509' K.B.

Acidized w/Dowell as follows:

1000 gal 15% HCl w/30 rubber balls evenly spaced throughout acid. Displaced w/16 Bbls 2% CaCl water.

Breakdown Pressure - 1000 psig  
Maximum Pressure - 1400 psig  
Final Pressure - 1400 psig  
ISIP - 1300 psig  
15 min SIP - 100 psig  
Average Injection Rate - 4 BPM

Rigged up to swab. Swabbed 4 hrs. Recovered 18 BLW and acid water and 13 Bbls oil with 45% acid water. Making run every 15 min w/300' fillup between runs. Est 10 Bbls acid water to recover. CIW & SDFN.

8-6-75

Tubing Pressure - 150  
Fluid @ 1100'. Swabbed down to seating nipple. Recovered 9 BF. Laid down swab equipment. Released packer. Pulled tubing. Installed frac flange. Rigged up Dowell. Frac'd down 5 1/2" casing w/2000 gal WF40 conditioner, 3000 gal of YR4G Pad, 3000 gal @ 1/2#/gal 10-20 sand, 11,000 gal @ 1#/gal 10-20 sand. Flushed w/72 Bbls KCl water. Job complete @ 3:30 PM. Used total of 12,500# 10-20 sand, and 612 BF.  
Maximum Pressure - 3000 psig  
Final Pressure - 2700 psig  
ISI - 2400 psig  
20 Min SI - 1500 psig  
Average Injection Rate - 13 BPM.

Laid flow line to frac tank. Well bled back 17 BTF in 4 hrs. Tripped tubing in hole w/Baker Anchor Catcher and seating nipple. Set Baker Anchor Catcher w/10,000# tension. Pulled BOP.  
Tubing string detail:

78 - Jts 2 7/8" EUE Tubing	2415.38'
1 - Seating Nipple	1.00
1 - Jt 2 7/8" EUE Tubing	31.05
1 - Baker Anchor Catcher	2.75
3 - Jts 2 7/8" EUE Tubing	91.98
Total	2542.16
Below KB	+ 6.00
Tubing Landed @	2548.16' KB

Rigged up swab equipment. Poured new rope socket. Ran swab 1 run. Ran into lubricator. Pulled out of rope socket. Dropped swab and sinker bar to seating nipple.

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8-8-75

Tubing Pressure - 150 psig  
 Casing Pressure - 170 psig  
 Blew well down. Removed well head. Pulled tubing. Recovered swab.  
 Stripped into hole. Well flowing and made 51 Bbls (approx 40% oil and  
 60% water). Poured new rope socket. Swabbed 6 hrs. Recovered 167 BTF -  
 40% oil - 60% water. Swabbing fluid level @ 1500'. Total recovered -  
 228 BTF (91 BO and 137 BLW). 475 BLW to recover.  
 CIW & SDFN.

8-9-75

Tubing Pressure - 170 psig  
 Casing Pressure - 430 psig  
 Well flowed 50 Bbls in 3 hrs through 3/4" choke. Casing pressure 36;  
 tubing pressure 45. Oil cut 25% oil; 75% water. Rigged up tubing head  
 and rigged down Workover rig. Total recovered - 278 BW and 96 BO.

8-10-75

Moved in and R. U. Tubing pressure 50; casing pressure 470. Made 1  
 swab run. Well flowing from 9 AM - 10AM. Made 58 Bbls on 3/4" choke.  
 Tubing pressure 30; casing pressure 480. Rigged down.  
 Recovered 200 BTF swabbing and flowing.

8-11-75

Flowing weakly. In 6 hrs recovered 113 BTF in test tank on 30/64" choke.  
 Tubing pressure 15; casing pressure 625. Water cut this AM - 30%.

79 BO  
 34 BW