



Summit Energy Research

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Dear Farrell,

The following information includes a cost breakdown to Plug & Abandon the Adam #1 well and Drip Facilities per all COGCC regulations. This means cementing all gas flow lines in place, as opposed to physically removing all gas flow lines. The P&A procedure can be found on page two.

Description	# of Units	Units	Cost/Unit	Total Cost
Workover Rig	51	Hours	255 \$/hr	\$ 14,305.50
Cement	1	Job	8208	\$ 9,028.25
Supervision	3	Days	1500 \$/days	\$ 4,950.00
Wireline	1	Job	9845	\$ 10,829.50
Directional Survey	1	Job	4364	\$ 4,800.40
WO Rig Rentals	8	Hours	200 \$/hr	\$ 1,760.00
Surface Rentals	3	Days	205 \$/days	\$ 676.50
Trucking	24	Hours	260 \$/hr	\$ 6,864.00
Downhole Tools (CICR & 2 CIBP)	1		5000 \$	\$ 5,500.00
Water	500	BBLS	0.5 \$/BBL	\$ 275.00
Facility Removal	1	Labor	8285 \$	\$ 9,113.50
Contingency (10%)				\$ 6,810.27
				\$ 74,912.92

Please let me know what your thoughts are or what questions you may have.

Kindly,
Ben

Plug & Abandonment Procedure

Well Data:

Name: Adam #1

API Number: 05-013-06186

Surf Location: NENW Section 34 T1N R69W

Directions: From HWY 287 & Arapahoe Rd, North ¼ Mile, West into

Spud Date: 9/21/1984

GL: 5,287'

KB: 5,299'

RKB: 12'

Perforations: 8,170 – 8,182' (Codell)

Surf Casing: 9 5/8", 36#, J-55, LTC (0 – 612')

No Cement Details, Cement to Surface

Production Csg: 5 1/2", 15.5#, (0 – 6,753') & 5 ½", 15.5, 17.0# (6,753 - 8,760')

290 Sacks of Cement, TOC @ Unknown

Production Tubing: 2 3/8" @ 8,165'

P&A Procedure:

1. MIRU Workover Rig and work tank
2. ND WH, Unland tbg, NU BOP
3. MIRU tubing testers
4. POOH with tbg, testing tubing out of hole, stand back
5. MIRU WL Unit
6. PU GR/IB RIH to TD, POOH with WL, LD GR/IB
7. PU directional survey tools, RIH to TD, pull directional surveys from TD to surface, LD directional survey tools
8. PU CBL, RIH to TD, pull CBL from TD to surface, record TOC, LD CBL
9. RIH and set CIBP @ +/- 8,125', POOH with WL
10. RIH with Cement Bailer, Dump Bail 2 sacks of cement on CIBP, POOH with WL, LD Cement Bailer
11. PU CIBP and squeeze gun, RIH with CIBP and perforating gun, set CIBP @ +/- 4,900'. PU and shoot squeeze holes at top of Sussex @ 4,835', and squeeze holes 50' below surface @ 666'. POOH with guns, LD guns
12. RDMO WL Unit
13. PU CICR, RIH with CICR & 2 3/8" tbg, set @ 4,735'
14. MIRU Cement Services
15. Pump 50 sacks of cement, leaving 5 sacks of cement in the casing
16. Sting out of CICR, POOH with 2 3/8" tbg, laying down
17. RDMO WL Unit
18. RU Cement, pump 100 sacks of cement from surface to surface
19. RDMO Cement
20. RDMO WO Rig
21. Cut casing 10' below ground level