



NueVida Resources, LLC CEMENT PROPOSAL #71665

Plug & Abandon Proposal

**Ardourel 33081718 4HU 05-067-10038
S:18 T:33N R:8W La Plata CO**

September 22, 2023



CEMENT PROPOSAL

Attention: Mr. Pyeboone Arunakul | (720) 630-4157 | parunakul@seideltech.com
NueVida Resources, LLC
332 Co Road 3100 | Aztec, NM 87410
September 22, 2023

Dear Mr. Pyeboone Arunakul,

Thank you for the opportunity to submit pricing for cementing services on the attached wellbore. American Cementing's priority is to provide premium customer service while operating in a safe, efficient manner. If you have any questions regarding the proposal or services offered, please contact American Cementing at any time.

Sincerely,

Scott Pollard
Sales | (303) 249-6761 | scott.pollard@americacementing.com

Prepared By
Krystal Schell
Field Engineer I | (719) 992-1830 | krystal.schell@americacementing.com

Field Office 28730 US-6, Rifle, CO 81650
Phone: (970) 657-1187

Disclaimer

1. Proposal is valid for 30 days
2. Proposal is for pricing purposes only; actual job procedure to be confirmed prior to job
3. American Cementing recommends proper hole conditioning prior to initiating cementing; please discuss procedures with your American Cementing representative
4. Applicable sales tax will be added to the final invoice
5. American Cementing general terms and conditions conclude this document

Well Information

Well Name: **Ardourel 33081718 4HU**

Well API: **05-067-10038**

Latitude: **37.101247**

Longitude: **-107.767606**

Section: **18**

Township: **33N**

Range: **8W**

County: **La Plata, CO**



Job: KOP & Plug Back (Plug & Abandon) - Well Information

Drilling Fluid Density: **9.40 lb/gal**
 Drilling Fluid: **WBM**
 Total Measured Depth: **4600 ft**
 Total Vertical Depth: **4600 ft**
 BHCT: **121 °F**
 BHST: **145 °F**
 Temperature Gradient: **1.62 °F/100ft**
 Surface Temp: **70 °F**

Geometry

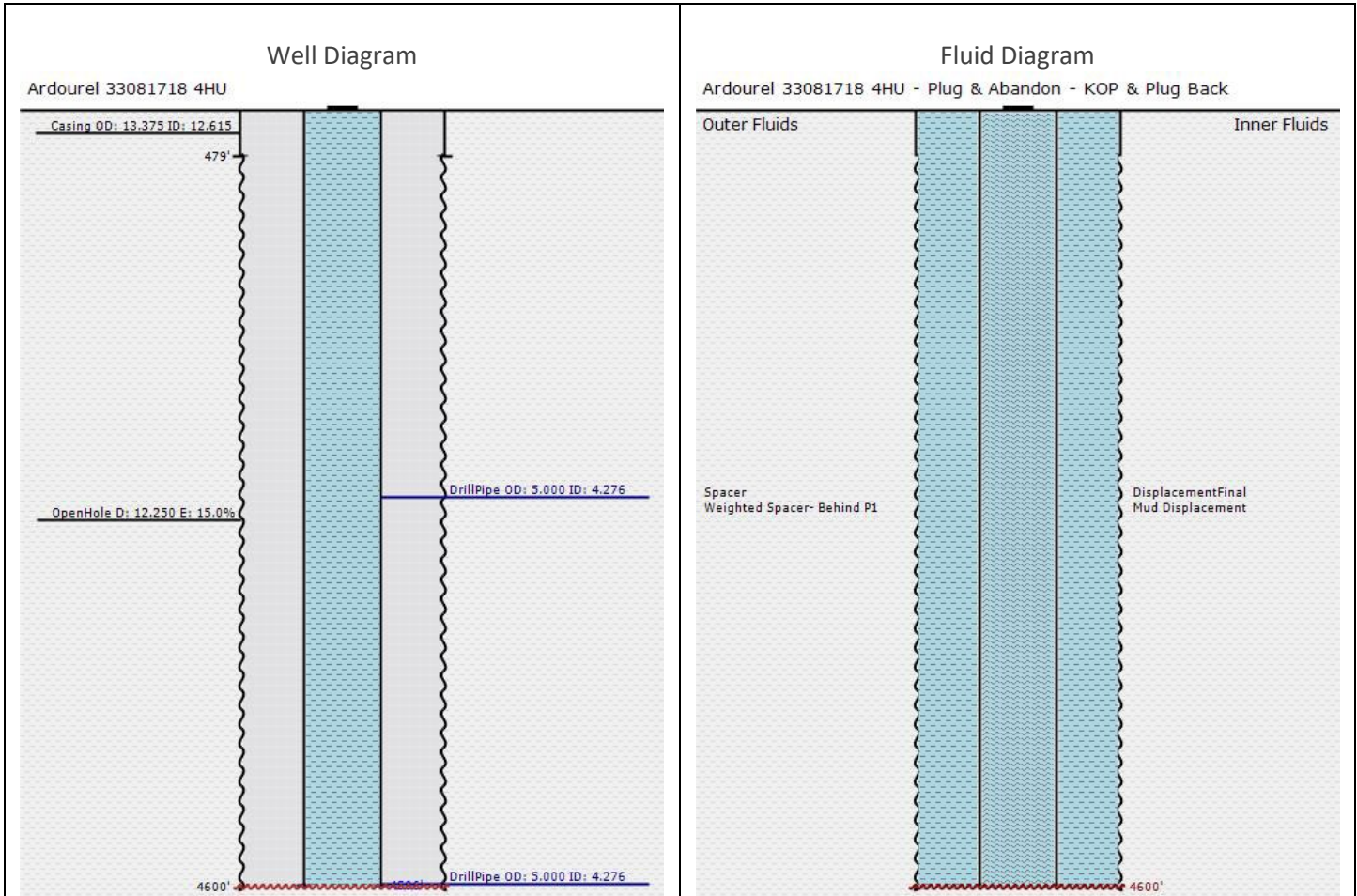
#	Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Top	Bottom	Excess (%)
1	Casing	Outer	13.375	12.615	54.50	0	479	0.0
2	OpenHole	Outer		12.250		479	4600	15.0
1	DrillPipe	Inner	5.000	4.276	19.50	0	4596	0.0
2	DrillPipe	Inner	5.000	4.276	19.50	4596	4600	0.0

Capacities

Excess added to Capacity Factor

Type	TopDepth (ft)	Length (ft)	OD (in)	ID (in)	Capacity (bbl/ft)	Capacity (ft ³ /ft)	Fill (ft/bbl)	Fill (ft/ft ³)
DisplacementFinal	0	4596	4.276	0.000	0.0178	0.0997	56.30	10.03
DisplacementFinal	4596	4	4.276	0.000	0.0178	0.0997	56.30	10.03
DrillPipe to OpenHole	4596	4	12.250	5.000	0.1397	0.7844	7.16	1.27
DrillPipe to OpenHole	479	4117	12.250	5.000	0.1397	0.7844	7.16	1.27
DrillPipe to Casing	0	479	12.615	5.000	0.1303	0.7316	7.67	1.37

Job: KOP & Plug Back (Plug & Abandon) - Well & Fluid Diagrams



Job: KOP & Plug Back (Plug & Abandon) - Material Information

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
1	Spacer	Weighted Spacer- Ahead P1	0.00	14.00	33.1			26.00

WEIGHTING ADDITIVE, BARITE - Heavyweight - 311.055 lb/bbl

IntegraGuard GW-86 - Viscosifier - 0.700 lb/bbl

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/sk)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
2	Plug	Plug	0.00	15.80	5.0	1.15	655	134.11

CEMENT, CLASS G - Cement - 100.000 %

DISPERSANT, CD-32 - Dispersant - 0.200 %BWOB

RETARDER, R-3 - Retarder - 0.200 %BWOB

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
3	Spacer	Weighted Spacer- Behind P1	0.00	14.00	33.1			4.00

WEIGHTING ADDITIVE, BARITE - Heavyweight - 311.055 lb/bbl

IntegraGuard GW-86 - Viscosifier - 0.700 lb/bbl

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
4	Displacement	Mud Displacement	0.00	8.34	42.0			63.00

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
5	Spacer	Weighted Spacer- Ahead P2	0.00	14.00	33.1			26.00

WEIGHTING ADDITIVE, BARITE - Heavyweight - 311.055 lb/bbl

IntegraGuard GW-86 - Viscosifier - 0.700 lb/bbl

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/sk)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
6	Plug	KOP	0.00	17.00	3.8	0.99	760	134.18

CEMENT, CLASS G - Cement - 100.000 %

DISPERSANT, CD-32 - Dispersant - 0.700 %BWOB

RETARDER, R-3 - Retarder - 0.100 %BWOB

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
7	Spacer	Weighted Spacer Behind P2	0.00	14.00	33.1			4.00

WEIGHTING ADDITIVE, BARITE - Heavyweight - 311.055 lb/bbl

IntegraGuard GW-86 - Viscosifier - 0.700 lb/bbl

Pump Order	Type	Fluid	Fluid Top (ft)	Density (lb/gal)	Water Req. (gal/bbl)	Yield (ft ³ /sk)	Proposed Volume (sks)	Proposed Volume (bbl)
8	DisplacementFinal	Mud Displacement	0.00	8.34	42.0			48.00

Job: KOP & Plug Back (Plug & Abandon) - Pump Schedule

Sequence	Type	Fluid	Density (lb/gal)	Pump Rate (bpm)	Volume (bbls)	Volume (sks)	Cum. Vol. (bbls)	Stage Time (min)	Cum. Time (min)
1	Spacer	Weighted Spacer- Ahead P1	14.00	5.00	26.00		26.00	5.20	5.20
2	Plug	Plug	15.80	5.00	134.11	655	160.11	26.82	32.02
3	Spacer	Weighted Spacer- Behind P1	14.00	5.00	4.00		164.11	0.80	32.82
4	Displacement	Mud Displacement	8.34	5.00	63.00		227.11	12.60	45.42
5	Spacer	Weighted Spacer- Ahead P2	14.00	5.00	26.00		253.11	5.20	50.62
6	Plug	KOP	17.00	5.00	134.18	760	387.30	26.84	77.46
7	Spacer	Weighted Spacer Behind P2	14.00	5.00	4.00		391.30	0.80	78.26
8	DisplacementFinal	Mud Displacement	8.34	5.00	48.00		439.30	9.60	87.86