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# MDS Energy Development, LLC PLUG & ABANDON POST JOB REPORT

HOUSTON #4-X 05-123-13455  
S:3 T:7N R:59W Weld CO

CallSheet #: 87964  
Proposal #: 70466



**PLUG & ABANDON Post Job Report**

**Attention:** Matthew Hoffman | (970) 380-0811 | matthew.hoffman@iptwell.com  
MDS Energy Development, LLC  
409 Butler Road Suite A | Kittanning, PA 16201

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Dear Matthew Hoffman,

Thank you for the opportunity to provide cementing services on this well. American Cementing strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact American Cementing at any time.

Sincerely,

**Aimee Sankovich**

Field Engineer I | (307) 689-0323 | aimee.sankovich@americacementing.com

**Field Office**      1716 E Allison Rd, Cheyenne, WY 82007  
Phone: (307) 414-0049

## Job Details & Summary

### Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	8.625	7.825	36	0	269	0
Casing	Inner	5.5	4.778	20	0	269	0

### Equipment / People

Unit Type	Unit
Cement Trailer Float	CTF-339
Light Duty Vehicles	LDV-048
Cement Pump Float	CPF-183

### Timing

Event	Date/Time
Call Out	7/23/2023 12:00
Depart Facility	7/23/2023 16:30
On Location	7/23/2023 18:00
Rig Up Iron	7/23/2023 18:30
Job Started	7/23/2023 20:00
Job Completed	7/23/2023 20:25
Rig Down Iron	7/23/2023 21:00
Depart Location	7/23/2023 22:30

### General Job Information

Metrics	Value
Well Fluid Density	8.5 lb/gal
Well Fluid Type	Water
Calculated Displacement	5 bbls
Actual Displacement	5 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	2 bbls
Well Topped Out	No

### Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	0 units
Flare During Job	No
Flare During Job	0 units
Flare at End of Job	No
Flare at End of Job	0 units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	8.5 lb/gal
Well Fluid Density Out of Well	8.5 lb/gal

### Job Details (cont.)

Metrics	Value
BHCT	70 °F
BHST	73 °F

### Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	62 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	110	0-1000
Total Hardness	200 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	<250 mg/L	0-1500 mg/L
Potassium	300 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

### Circulation

Lost Circulation Experienced
No



**Job Execution Information**

Fluid	Product	Function	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	Flush Ahead	Flush	8.34			42.00		5.00	0
2	Primary	Plug	14.80	1.33	6.33		80	18.95	0
3	Displacement	DisplacementFinal	8.34			42.00		5.00	0

**Job Fluid Details**

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Plug	Primary	ASTM TYPE I/II	Cement	100.00	%

## Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	Call Out	7/23/2023	12:00					ACC gets called out requested time on Location was 10:30
2	Depart Facility	7/23/2023	16:30					ACC departs facility
3	Arrive To Location	7/23/2023	18:00					ACC arrives to location rig is currently running casing
4	Rig Up	7/23/2023	18:30					ACC spots in units and gets rigged up
5	Fill Lines	7/23/2023	19:30	8.34	2	5	10	Pumped 5 bbls ahead to load line and get circulation
6	Pressure Test	7/23/2023	20:00				5200	Pressure test pump/lines to 5200 psi
7	Pump Cement	7/23/2023	20:07	14.8	1	20.15	35	Pumped 20.15 bbls of CMT (14.8 PPG 6.3 G/SK 1.33 YLD 8OSKS) at 1 bpm w/ 35 psi
8	Cement To Surface	7/23/2023	20:20	14.8	1	18	25	At 18 bbls away into cmt, got cmt to surface at 1 bpm w/ 25 psi
9	Pump Disp	7/23/2023	20:22	8.34	2	5	30	Pumped 5 bbls of disp at 2 bpm w/ 30 psi
10	Shut Down	7/23/2023	20:25					Shut down pumping cmt
11	Rig Down	7/23/2023	21:00					ACC rigged down equipment
12	Depart Location	7/23/2023	22:30					ACC departed location
13	Other	7/23/2023	22:31					Total cmt to surface, 2 bbls

# Pump Diagrams

MDS Energy #4-X Houston

