



PHOENIX
TECHNOLOGY SERVICES

March 29, 2019

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

RECEIVED

Dear District 2 - Artesia

MAY 01 2019

Re: Solaris Water Midstream
Mad Cow SWD #1
Eddy County, New Mexico
API #30-015-45204
Job No. 63723

DISTRICT II-ARTESIA O.C.D.

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Zach Snyder	1	10,902	17,378	11/16/18	1/10/19	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY DATA CERTIFICATION



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Job #: 63723
Client: Solaris Midstream
County & State: Eddy County, NM
Well: Mad Cow SWD #1
API No: 30-015-45204
Proposed Direction: 360.00

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
10765.00 ft	10763.01 ft	0.58	198.34	20.35	63.67	GYRO
Data Source Company:						

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
16-Nov-18	10,902 ft	0.18°	157.72°

Last Survey Date	Last Survey Depth	INC	AZM
10-Jan-19	17,378 ft	3.36°	250.42°

Survey Instrument Type
Phoenix P-360 MWD

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
10-Jan-19	17,430 ft	3.36°	250.42°

CORRECTION INFORMATION

Magnetic Declination Used	6.87 degrees
Grid Convergence Used	0.27 degrees
Total Correction	6.60 degrees

Corrected to True/Grid North
Grid North

TO THE BEST OF MY KNOWLEDGE, I CERTIFY THIS SURVEY DATA TO BE TRUE AND CORRECT.

Zach Snyder 1/10/2019
Field Engineer Signature Date