



**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	
Matthew Howell	1	779	8,914	10/17/18	11/6/18	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



**PHOENIX**  
TECHNOLOGY SERVICES

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
631.00 ft	630.97 ft	1.4	0	4.97	0	Teledrift
Data Source Company:						

## SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
17-Oct-18	779 ft	1.23°	234.68°

Last Survey Date	Last Survey Depth	INC	AZM
6-Nov-18	8,914 ft	0.70°	298.96°

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
6-Nov-18	8,980 ft	0.70°	298.96°

### Survey Instrument Type

Phoenix P-360 MWD

## 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.

Matthew Howell  
 Field Engineer Signature

11/6/2018  
 Date