

National Oilwell Varco - Certification Sheet



FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road
Cedar Park, TX 78613
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August 11, 2016

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 02 2016

RECEIVED

CLIENT: Matador Production Company
WELL: B Banker 33-23S-28E RB #221H
FIELD: Culbera Bluff
RIG: Patterson 297
COUNTY: Eddy
API NO: 30-015-43306

We hereby certify that the enclosed field survey data performed on the referenced well by National Oilwell Varco, contained in this report represents to the best of our knowledge, a true and accurate survey of the surveyed section of the well at the time the survey was run.

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Lee Pendegraft Survey Manager	B Banker 33-23S-28E RB #221H Original Hole	270.00 Ft to 443.00 Ft	April 19, 2016 to April 20, 2016	FloSurvey

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Jonathan Leininger
Field Service Manager

CC: Matador Production Company
Enclosures: [2]
County of Eddy
State of New Mexico

Attn: Adam Lange
One Lincoln Centre 5400 LBJ Freeway
Dallas, TX 75240

Attn:

Matador Production Company
Eddy County
B Banker 33-23S-28E RB #221H
Surveys: 270`MD-443`MD
Survey Date: Tuesday, April 19, 2016

National Oilwell Varco

Survey Report

Thursday, August 11, 2016

UWI No. 30-015-43306

Surface Coordinates: 460794.00 N, 576943.00 E (32° 15' 59.7394" N, 104° 05' 03.8517" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Foot

Kelly Bushing Elevation: 3092.50ft above Mean Sea Level
Kelly Bushing Elevation: 28.50ft above Ground Level
Ground Level: 3064.00ft above Mean Sea Level

Survey Ref: svy579

Matador Production Company

Survey Report for Eddy County, B Banker 33-23S-28E RB #221H, Surveys:270`MD-443`MD

REFERENCE DATA

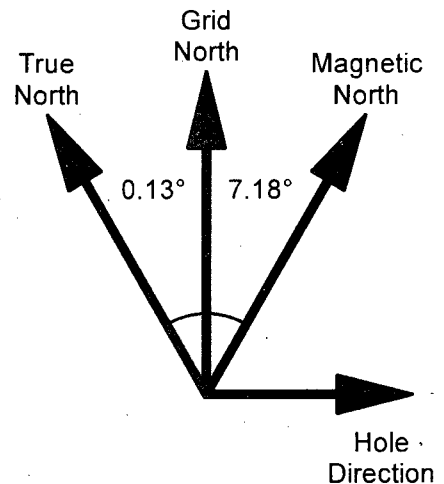
Ellipsoid	Clarke - 1866	Unit System	Feet (Us Survey)
Coord. System	NAD27 New Mexico State Planes, Eastern Zone, US Foc	North Ref.	Grid North
Mag. Model	International Geomagnetic Reference Field 2015	Vertical Ref.	Mean Sea Level
Calc. Date	19 Apr, 2016		

LOCATION DATA

RKB Elevation	3092.50ft above MSL	Total Field	48029.1 nT
Map North	460794.00 N	Magnetic Dip	60.03°
Map East	576943.00 E	Declination	7.32°
Latitude	32° 15' 59.7394" N	Convergence	0.13°
Longitude	104° 05' 03.8517" W		

NORTH REFERENCE DATA

Magnetic Model	ational Geomagnetic Reference Field 2015
Calculation Date	Tuesday, April 19, 2016
Declination	7.32°
Inclination/Dip	60.03°
Horizontal Component	23990.9 nT
Northerly Component	23795.5 nT
Easterly Component	3056.0 nT
Vertical Component	41608.1 nT
Total Field Strength	48029.1 nT
Grid North is 0.13 degrees East of True North (Grid Convergence)	
Magnetic North is 7.32 degrees East of True North (Magnetic Declination)	
Magnetic North is 7.18 degrees East of Grid North (Magnetic Convergence)	
To convert a True Direction to a Grid Direction, Subtract 0.13 degrees.	
To convert a Magnetic Direction to a True Direction, Add 7.32 degrees.	
To convert a Magnetic Direction to a Grid Direction, Add 7.18 degrees.	



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