

WELL DETAILS: Duck Club 12W-20-5C

Ground Elevation:: 5037.00  
RKB Elevation: KB=25 @ 5062.00usft (Patt 901)  
Rig Name: Patt 901

Northing  
1236182.64


Easting  
3215515.32

Latitude  
39.97914

Longitude  
-104.73095

Extraction Oil & Gas

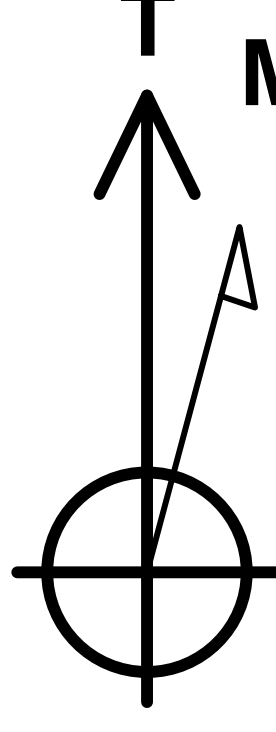
Project: Adams County (NAD 83)  
Site: Sec 12-T01S-R66W  
Well: Duck Club 12W-20-5C  
Wellbore: Wellbore #1  
Plan: Plan #2 (Duck Club 12W-20-5C/Wellbore #1)  
Patt 901



Planned Section Details									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	1588.00	13.23	69.80	1581.35	26.27	79.10	0.00	0.00	-75.90
2	2151.07	24.49	69.23	2113.33	90.11	249.24	2.00	-1.21	-238.38
3	6187.44	24.49	69.23	5786.56	683.46	1813.71	0.00	0.00	-1731.77
4	7411.94	0.00	0.00	6974.12	774.86	2054.70	2.00	180.00	-1961.80
5	7441.94	0.00	0.00	7004.12	774.86	2054.70	0.00	0.00	-1961.80
6	8341.94	89.54	270.48	7580.00	779.65	1483.44	9.95	270.48	-1393.21
7	17966.74	89.53	270.49	7658.00	861.02	-8140.70	0.00	134.50	8186.11

PROJECT DETAILS: Adams County (NAD 83)  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level  
Local North: True

T  
M



Azimuths to True North  
Magnetic North: 8.20°

Magnetic Field  
Strength: 51945.4snT  
Dip Angle: 66.32°  
Date: 11/6/2018  
Model: HDGM

0°

First Surface Surveys

Last Surface Surveys

First MWD Survey @ 1663.00' MD

Parkman

Sussex

Start DLS 2.00 TFO -180.00

30° Inclination @ 7732.91' MD

70° Inclination @ 8166.84' MD

Niobrara Springs

Nio B

Code

LP Duck Club 12W-20-5C

Cross @ 10517.89' MD

Cross @ 15794.74' MD

Projection to TD @ 17921' MD 1950' FNL/ 2123' FEL

Last MWD Survey @ 17821.00' MD

Section 10

Section 11

Section 12

Duck Club 12W-20-3N/Plan #1

Duck Club 12W-20-4N/Plan #2

ABND Vert Ben Stevenson Gas Unit 1/Design #1

PBHL Duck Club 12W-20-5C

Cross @ 15794.74' MD

Duck Club 12W-20-7N/Plan #2

ABND Vert Shaw A #1/Design #1

LP Duck Club 12W-20-5C

Cross @ 10517.89' MD

30° Inclination @ 7732.91' MD

70° Inclination @ 8166.84' MD

ABND Vert Shaw E Unit #1/Design #1

2180' From EW

West(-)/East(+) (400 usft/in)

South(-)/North(+) (400 usft/in)

Vertical Section at 276.04° (400 usft/in)