

Well Name: GOONCH FED COM 0409	Well Location: T22S / R28E / SEC 33 / SESE / 32.3431069 / -104.0848175	County or Parish/State: EDDY / NM
Well Number: 134H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM13233	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154770000X1	Well Status: Drilling Well	Operator: NOVO OIL AND GAS NORTHERN DELA

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 03/02/2021	Time Sundry Submitted: 01:34
Date proposed operation will begin: 03/15/2021	

Procedure Description: Request changes as follows: Move Surface Hole Location From: 435' FSL & 285' FEL, Section 33, T-22-S, R-28-E, SESE To: 475' FSL & 235' FEL, Section 33, T-22-S, R-28-E, SESE Moved on the same pad site and there will be no new surface disturbance. Move Bottom Hole Location From: 10' FSL & 726' FEL, Section 4, T-23-S, R-28-E, SESE To: 130' FSL & 990' FEL, Section 9, T-23-S, R-28-E, SESE Production Formation From: Third Bone Spring To: Wolfcamp A Casing Substitution Hole Size: 9-7/8", Casing: 8-5/8", 32 ppf, P-110, TLW to be set at 9,055' TMD. Design Safety Factors: Burst 5.95, Collapse 1.46, Tension 3.33 (Casing Specification Sheet is attached) Hole Size: 7-7/8", Casing: 5-1/2", 20 ppf, P-110, DW/C IS+ to be set at 21,155' TMD. Design Safety Factors: Burst 1.25, Collapse 2.84, Tension 2.75 (Casing Specification Sheet is attached) Single Stage Cement Job for 8-5/8" Intermediate Casing String (TOC = Surface) Lead: 613 Sacks; 2,193.4 cu. ft.; 100% excess; 3.58 cu.ft./sx; 10 ppg; Class C + retarder + LCM + beads; 900 psi 24-hour compressive strength. Tail: 130 Sacks; 180.7 cu. ft; 50% excess; 1.39 cu.ft./sx; 13.8 ppg; Class C + retarder + LCM; 1,200 psi 24-hour compressive strength. Singe Stage Cement Job for 5-1/2" Production Casing String (TOC = Surface) Lead: 701 Sacks; 1,485.1 cu. ft.; 20% excess; 2.12 cu.ft./sx; 12 ppg; Class C + retarder; 1,200 psi 24-hour compressive strength. Tail: 2,065 Sacks; 3,282.6 cu. ft; 20% excess; 1.59 cu.ft./sx; 13.2 ppg; Class C + retarder; 1,200 psi 24-hour compressive strength.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- NOVO_Goonch_Fed_Com_0409__134H_Plan_0_20210302133429.xlsx
- NOVO_Goonch_Fed_Com_0409__134H_Plan_0_20210302133422.pdf
- NOVO_Goonch_Fed_Com_0409__134H_plot_Plan_0_20210302133417.pdf
- NOVO_Goonch_Fed_Com_0409__134H_AC_Report_Plan_0_20210302133409.pdf

Well Name: GOONCH FED COM 0409	Well Location: T22S / R28E / SEC 33 / SESE / 32.3431069 / -104.0848175	County or Parish/State: EDDY / NM
Well Number: 134H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM13233	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154770000X1	Well Status: Drilling Well	Operator: NOVO OIL AND GAS NORTHERN DELA

5.500_20_P110EC_DWC_C_IS_PLUS_20210302133356.pdf

8.625_32.00_P110HSCY_TLW_20210302133350.pdf

GOONCH_FED_COM_0409_134H_20210302133318.pdf

Drill_Plan_3S_10K_GOONCH_FED_COM_04_134H_030221_v2_20210302133302.pdf

Goonch_0409_134H_APD_Change_Request_20210302133251.pdf

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: JUSTIN CARTER	Signed on: MAR 02, 2021 01:34 PM
Name: NOVO OIL AND GAS NORTHERN DELA	
Title: Landman	
Street Address: 1001 West Wilshire Boulevard Suite 206	
City: Oklahoma City	State: OK
Phone: (405) 286-3375	
Email address: JCARTER@NOVOOG.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 03/08/2021
Signature: Chris Walls	

GOONCH FED COM 0409 134H

CHANGE TO PLANS

Move Surface Hole Location

From: 435' FSL & 285' FEL, Section 33, T-22-S, R-28-E, SESE

To: 475' FSL & 235' FEL, Section 33, T-22-S, R-28-E, SESE

Moved on the same pad site and there will be no new surface disturbance.

Move Bottom Hole Location

From: 10' FSL & 726' FEL, Section 4, T-23-S, R-28-E, SESE

To: 130' FSL & 990' FEL, Section 9, T-23-S, R-28-E, SESE

Production Formation

From: Third Bone Spring

To: Wolfcamp A

Casing Substitution

Hole Size: 9-7/8", Casing: 8-5/8", 32 ppf, P-110, TLW to be set at 9,055' TMD.

Design Safety Factors: Burst 5.95, Collapse 1.46, Tension 3.33 (Casing Specification Sheet is attached)

Hole Size: 7-7/8", Casing: 5-1/2", 20 ppf, P-110, DWC/C IS+ to be set at 21,155' TMD.

Design Safety Factors: Burst 1.25, Collapse 2.84, Tension 2.75 (Casing Specification Sheet is attached)

Single Stage Cement Job for 8-5/8" Intermediate Casing String (TOC = Surface)

Lead: 613 Sacks; 2,193.4 cu. ft.; 100% excess; 3.58 cu.ft./sx; 10 ppg; Class C + retarder + LCM + beads; 900 psi 24-hour compressive strength.

Tail: 130 Sacks; 180.7 cu. ft; 50% excess; 1.39 cu.ft./sx; 13.8 ppg; Class C + retarder + LCM; 1,200 psi 24-hour compressive strength.

Singe Stage Cement Job for 5-1/2" Production Casing String (TOC = Surface)

Lead: 701 Sacks; 1,485.1 cu. ft.; 20% excess; 2.12 cu.ft./sx; 12 ppg; Class C + retarder; 1,200 psi 24-hour compressive strength.

Tail: 2,065 Sacks; 3,282.6 cu. ft; 20% excess; 1.59 cu.ft./sx; 13.2 ppg; Class C + retarder; 1,200 psi 24-hour compressive strength.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47700		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp Gas Pool	
⁴ Property Code		⁵ Property Name GOONCH FED COM 0409			⁶ Well Number 134H
⁷ OGRID No. 372920		⁸ Operator Name NOVO OIL & GAS NORTHERN DELAWARE, LLC			⁹ Elevation 3038.5
¹⁰ Surface Location					
UL or lot no. P	Section 33	Township 22 S	Range 28 E	Lot Idn	Feet from the 475
				North/South line SOUTH	Feet from the 235
				East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. P	Section 9	Township 23 S	Range 28 E	Lot Idn	Feet from the 130
				North/South line SOUTH	Feet from the 990
				East/West line EAST	County EDDY
¹² Dedicated Acres 640.45		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ Order No.	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Justin Carter</i> 5/12/2021 Signature Date Justin Carter Printed Name jcarter@novoog.com E-mail Address
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 22, 2021 Date of Survey <i>Justin Carter</i> Signature and Seal of Professional Surveyor Certificate Number: LS 12797 Surveyor No. 7259A		

Intent ☐ As Drilled ☐

API #		
Operator Name: NOVO OIL & GAS NORTHERN DELAWARE, LLC	Property Name: GOONCH FED COM 0409	Well Number 134H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL A	Section 4	Township 23S	Range 28E	Lot 1	Feet 330	From N/S NORTH	Feet 990	From E/W EAST	County EDDY
Latitude 32.3410069					Longitude 104.0870628				NAD 83

Last Take Point (LTP)

UL P	Section 9	Township 23S	Range 28E	Lot	Feet 330	From N/S SOUTH	Feet 990	From E/W EAST	County EDDY
Latitude 32.3135270					Longitude 104.0871386				NAD 83

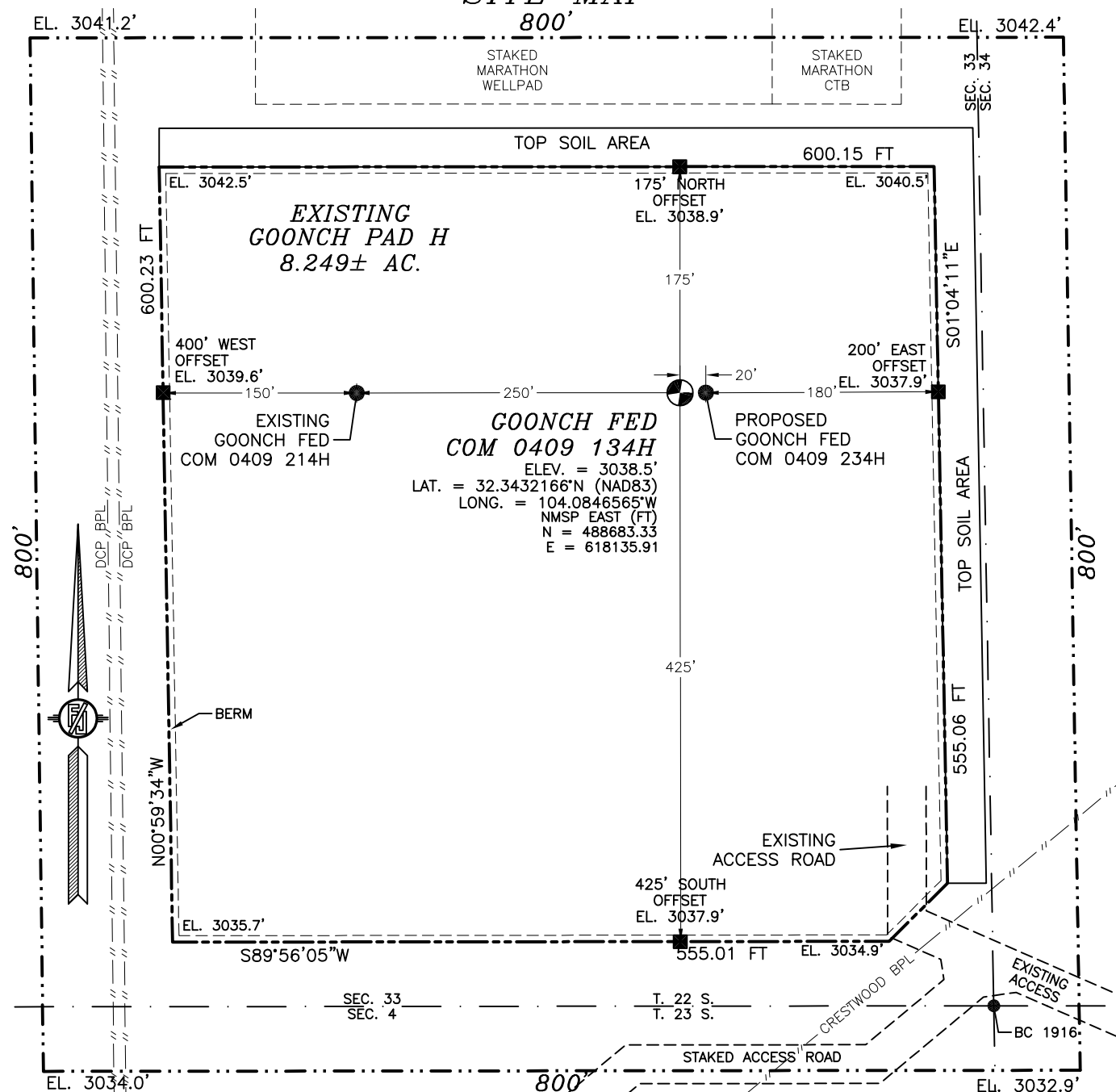
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



DIRECTIONS TO LOCATION

FROM STATE ROAD 31 (POTASH MINES) & CR. 605 (REFINERY) GO NORTHWEST ON REFINERY ROAD APPROX 3.57 MILES TO HERRADURA BEND ROAD, TURN LEFT AND GO WEST-SOUTHWEST ON HERRADURA BEND ROAD APPROX. 0.66 MILE, TURN RIGHT AND GO SOUTH-SOUTHEAST APPROX. 0.59 MILE TO A STAKED ACCESS ROAD ON RIGHT (WEST), FOLLOW STAKED ROAD SOUTH-SOUTHWEST 597', THEN WEST-NORTHWEST 330' TO THE SOUTHEAST PAD CORNER FOR CULERA BLUE WELL PAD, FOLLOW PAD ACCESS ROAD WEST AND NORTH 78' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

I, FILIMON P. JARAMILA, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DEEMED MYSELF RESPONSIBLE FOR THIS SURVEY AND THAT I HAVE BEEN ADVISED TO THE BEST OF MY KNOWLEDGE OF THE RECORDS AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON P. JARAMILA 2797

MADRON PROFESSIONAL SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

NOVO OIL & GAS NORTHERN DELAWARE, LLC
GOONCH FED COM 0409 134H
LOCATED 475 FT. FROM THE SOUTH LINE
AND 235 FT. FROM THE EAST LINE OF
SECTION 33, TOWNSHIP 22 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2021 SURVEY NO. 7259A

CARLSBAD, NEW MEXICO

SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 INTERIM SITE RECLAMATION

STAKED
MARATHON
WELLPAD

STAKED
MARATHON
CTB

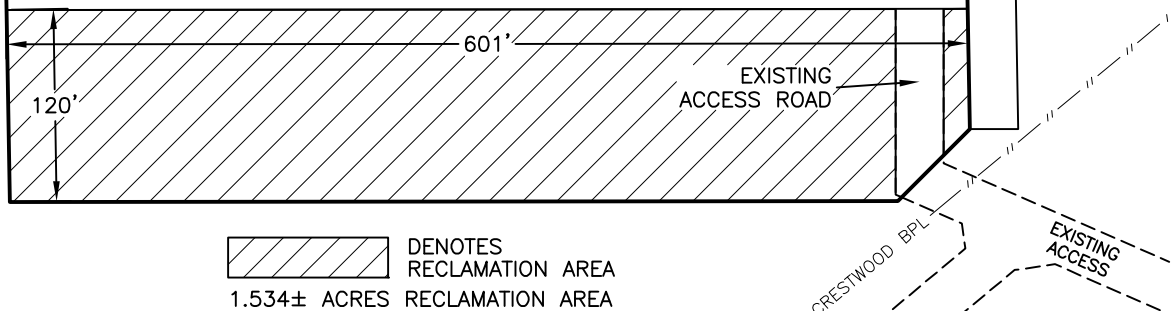
EXISTING
GOONCH PAD H
8.249± AC.

EXISTING
GOONCH FED
COM 0409 214H

PROPOSED
GOONCH FED
COM 0409 134H

PROPOSED
GOONCH FED
COM 0409 234H

DCF BPL
DCF BPL



DENOTES
RECLAMATION AREA
1.534± ACRES RECLAMATION AREA

012 60 120 240
 SCALE 1" = 120'

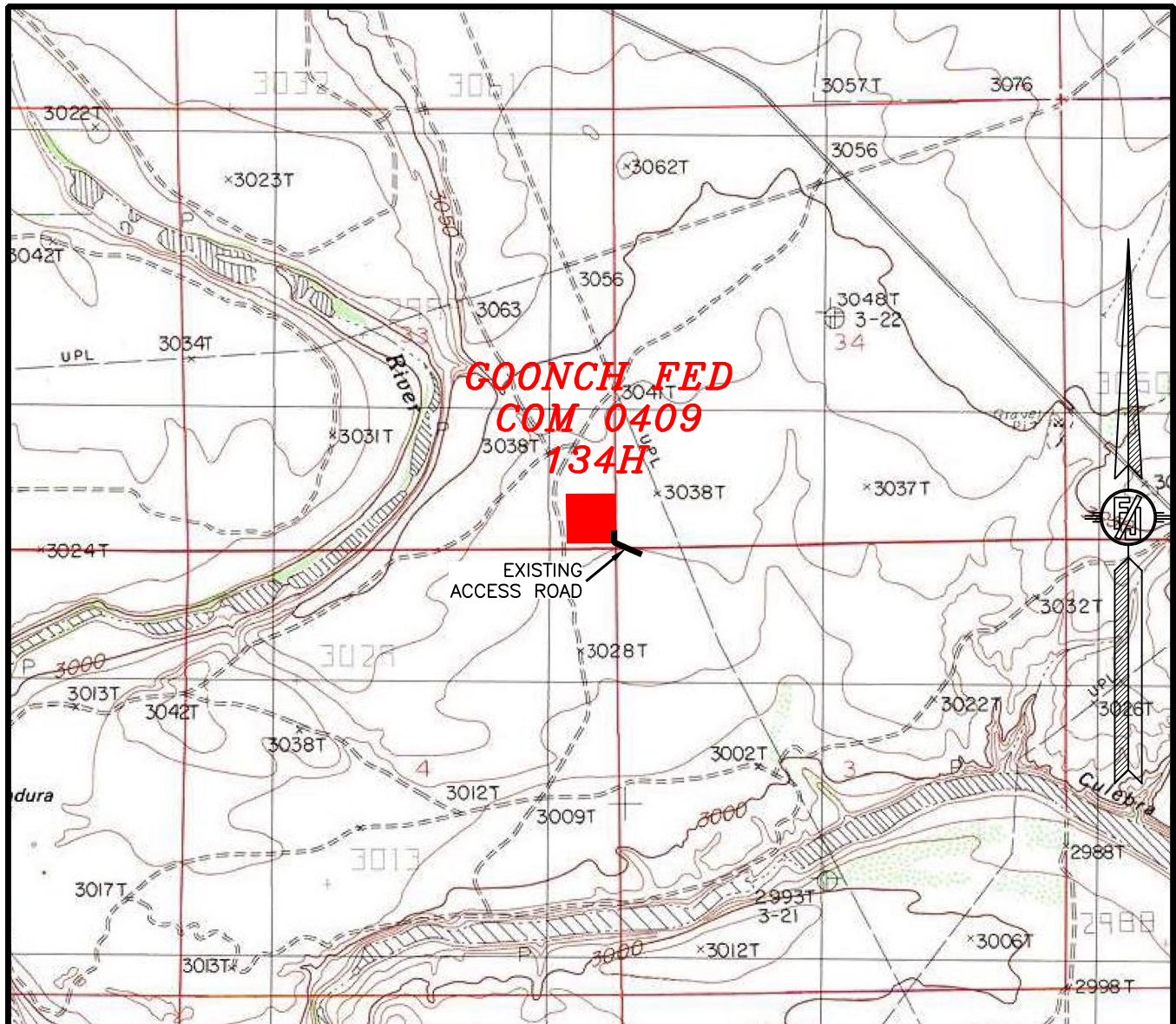
NOVO OIL & GAS NORTHERN DELAWARE, LLC
GOONCH FED COM 0409 134H
 LOCATED 475 FT. FROM THE SOUTH LINE
 AND 235 FT. FROM THE EAST LINE OF
 SECTION 33, TOWNSHIP 22 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2021

SURVEY NO. 7259A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
 (575) 234-3341

SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 LOVING

NOT TO SCALE

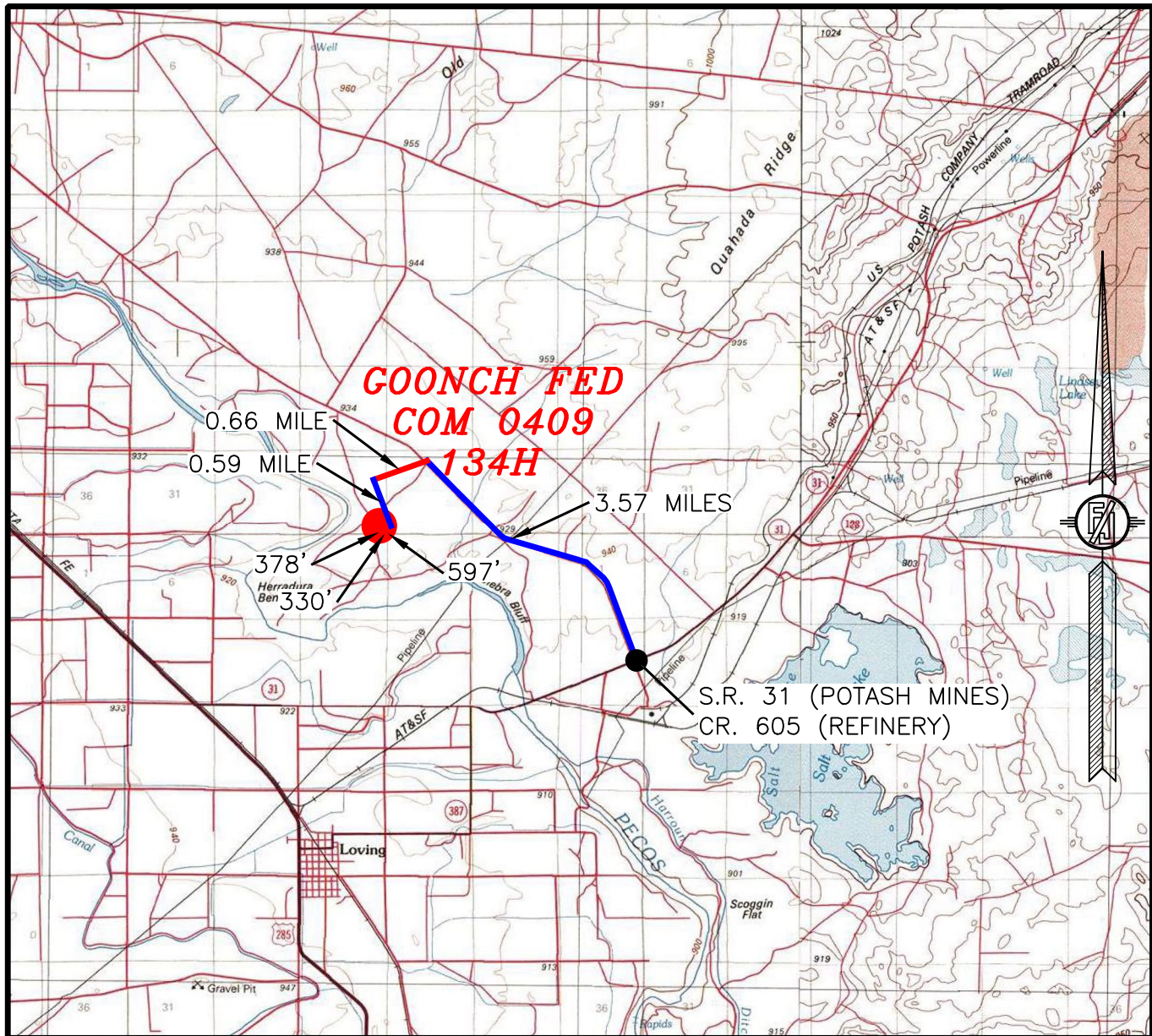
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 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2021

MADRON SURVEYING, INC. 301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 7259A
 CARLSBAD, NEW MEXICO

SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM STATE ROAD 31 (POTASH MINES) & CR. 605 (REFINERY) GO NORTHWEST ON REFINERY ROAD APPROX 3.57 MILES TO HERRADURA BEND ROAD, TURN LEFT AND GO WEST-SOUTHWEST ON HERRADURA BEND ROAD APPROX. 0.66 MILE, TURN RIGHT AND GO SOUTH-SOUTHEAST APPROX. 0.59 MILE TO A STAKED ACCESS ROAD ON RIGHT (WEST), FOLLOW STAKED ROAD SOUTH-SOUTHWEST 597', THEN WEST-NORTHWEST 330' TO THE SOUTHEAST PAD CORNER FOR CULEBRA BLUFF WELL PAD 1, FOLLOW PAD ACCESS ROAD WEST AND NORTH 378', TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

NOVO OIL & GAS NORTHERN DELAWARE, LLC

GOONCH FED COM 0409 134H

LOCATED 475 FT. FROM THE SOUTH LINE
AND 235 FT. FROM THE EAST LINE OF
SECTION 33, TOWNSHIP 22 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2021

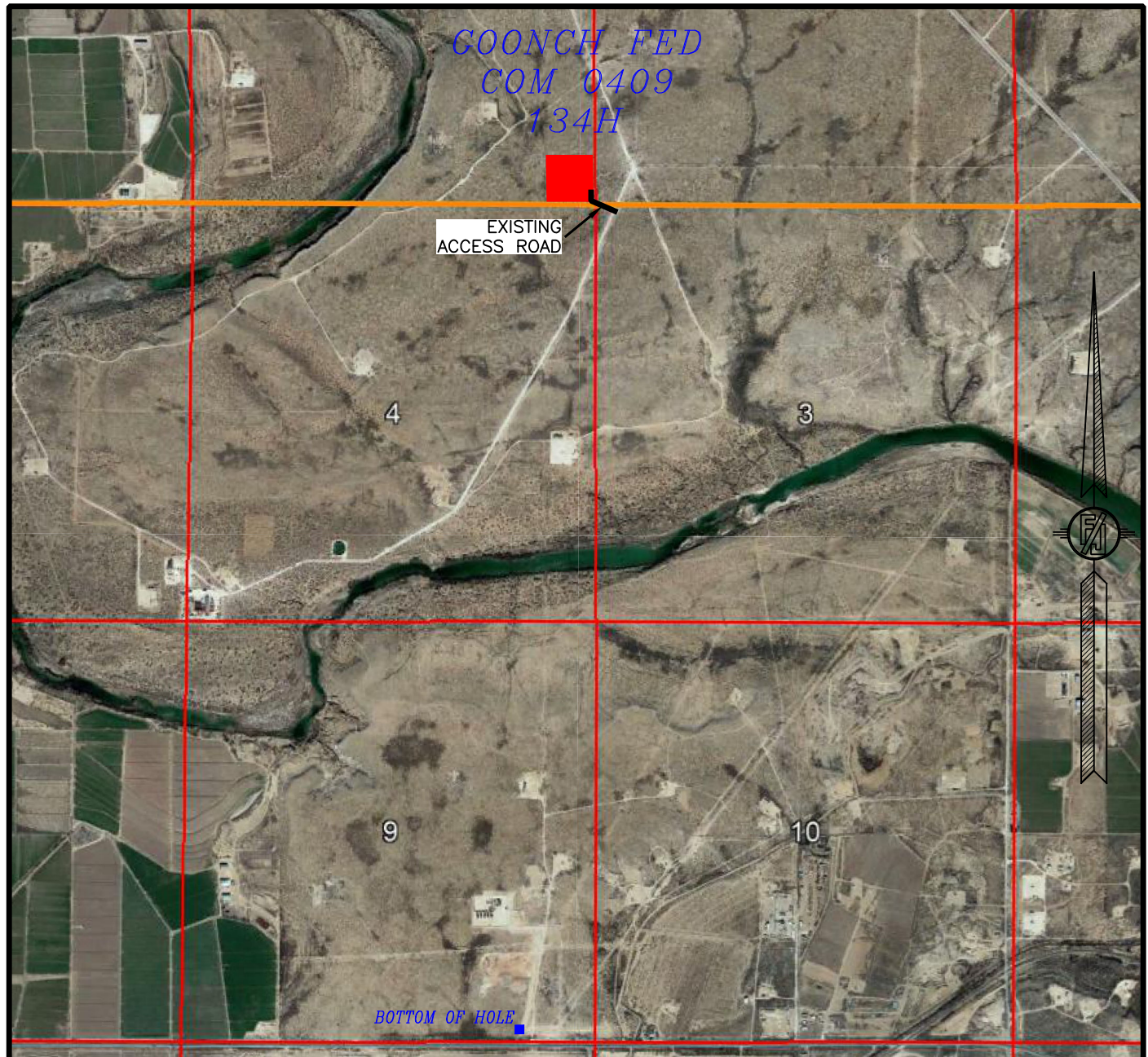
SURVEY NO. 7259A

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL PHOTO



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

NOVO OIL & GAS NORTHERN DELAWARE, LLC
GOONCH FED COM 0409 134H
 LOCATED 475 FT. FROM THE SOUTH LINE
 AND 235 FT. FROM THE EAST LINE OF
 SECTION 33, TOWNSHIP 22 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 22, 2021

SURVEY NO. 7259A

MADRON SURVEYING, INC. 301 SOUTH CANAL
 (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL ACCESS ROUTE MAP



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DEC. 2019

NOVO OIL & GAS NORTHERN DELAWARE, LLC
GOONCH FED COM 0409 134H
 LOCATED 475 FT. FROM THE SOUTH LINE
 AND 235 FT. FROM THE EAST LINE OF
 SECTION 33, TOWNSHIP 22 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

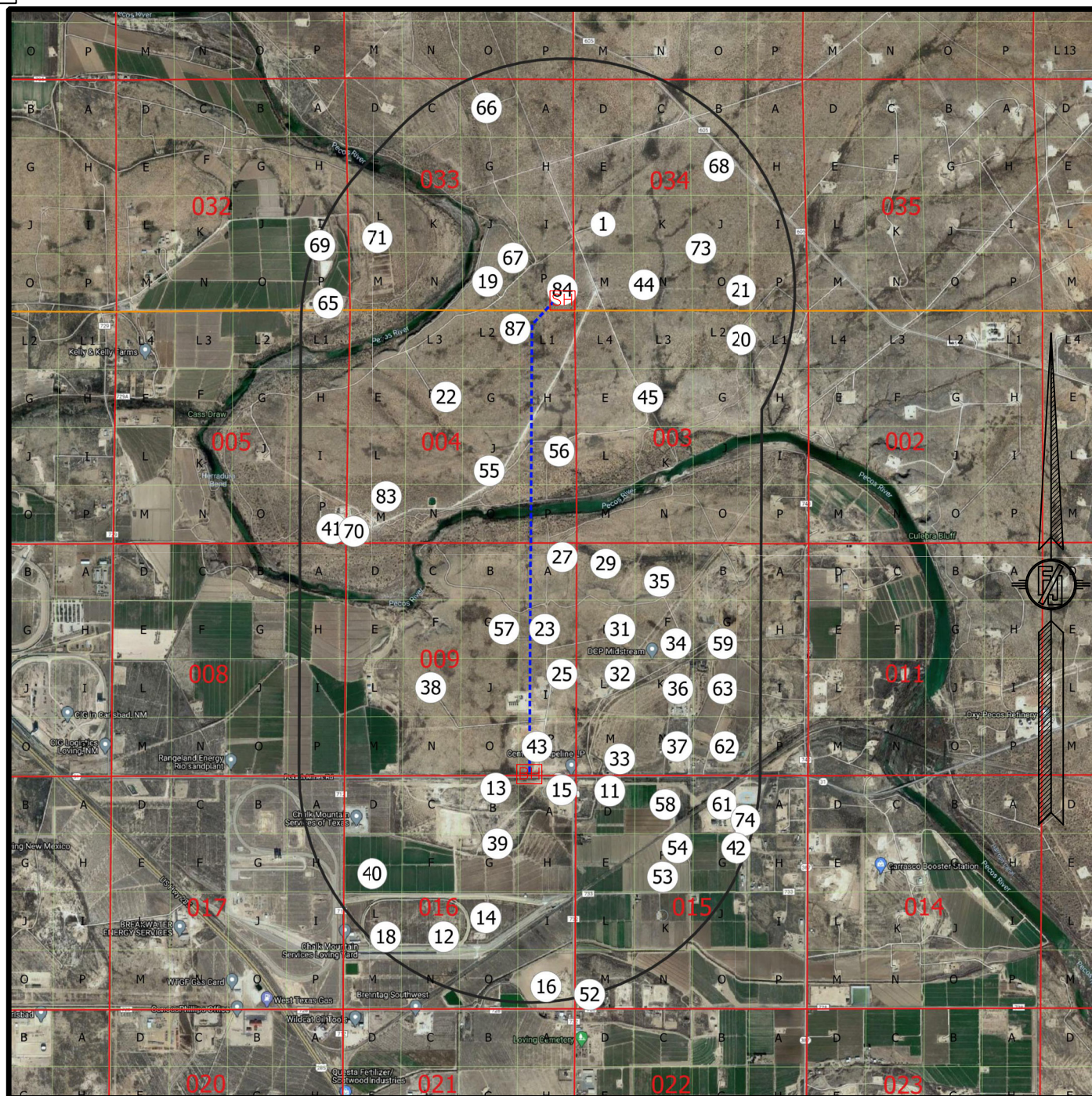
FEBRUARY 22, 2021

SURVEY NO. 7259A

MADRON SURVEYING, INC. 301 SOUTH CANAL
 (575) 234-3341

CARLSBAD, NEW MEXICO

1-MILE WELL MAP



WELL DATA FROM NMOCDS GIS - 1/27/2021

[SH] SURFACE LOCATION

[BH] BOTTOM OF HOLE

[XX] WELLS WITHIN 1 MILE

----- WELL PATH

----- 1-MILE BOUNDARY

NOVO OIL & GAS NORTHERN DELAWARE, LLC
GOONCH FED COM 0409 134H
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 AND 235 FT. FROM THE EAST LINE OF
 SECTION 33, TOWNSHIP 22 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

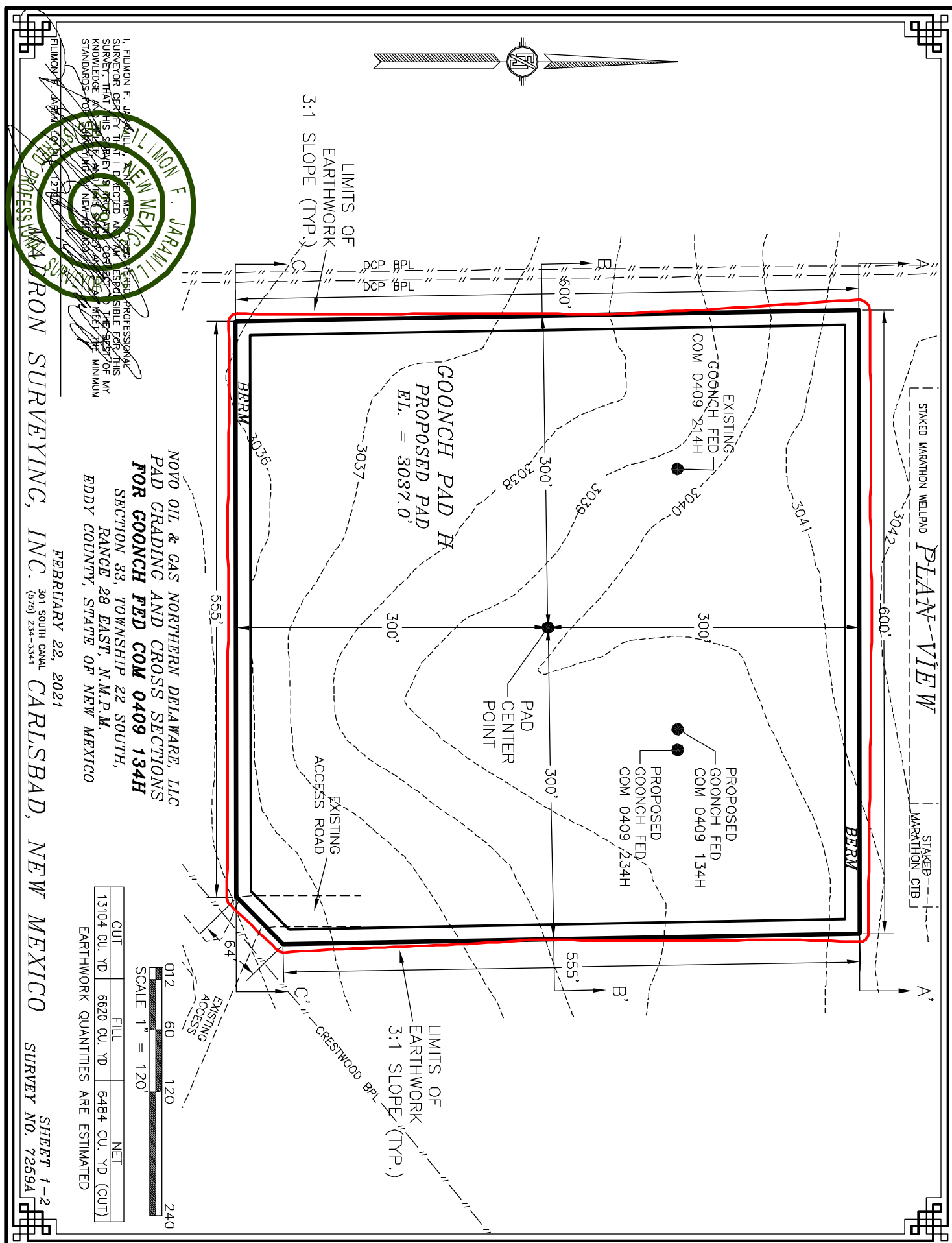
FEBRUARY 22, 2021

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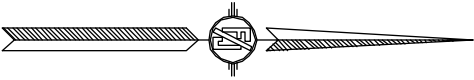
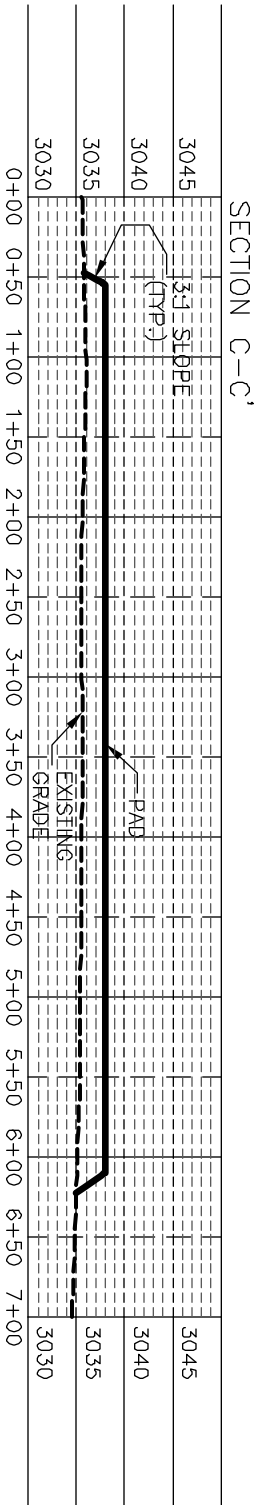
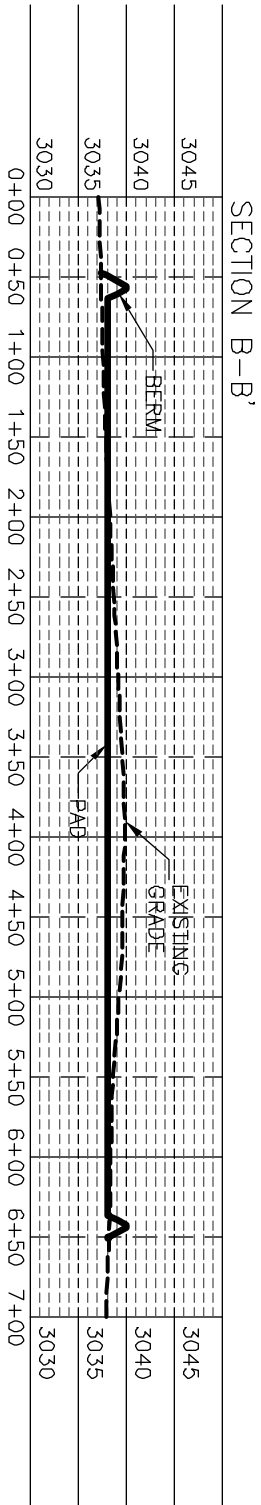
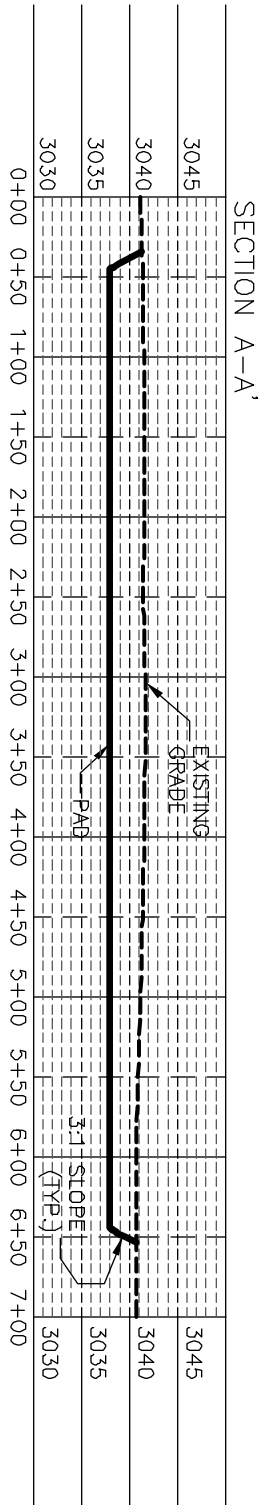
MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3341

CARLSBAD, NEW MEXICO



CROSS-SECTIONS

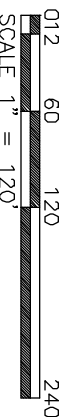


I, FILMON F. JARAMILLO, II, a duly Licensed Professional Surveyor, hereby certify that I have surveyed the above described area and that the same is in accordance with the standards of the State of New Mexico.

NOVO OIL & GAS NORTHERN DELAWARE, LLC
PAD GRADING AND CROSS SECTIONS
FOR GOONCH FED COM 0409 134H
SECTION 33, TOWNSHIP 22 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
13104 CU. YD.	6620 CU. YD.	6484 CU. YD. (CUT)

EARTHWORK QUANTITIES ARE ESTIMATED



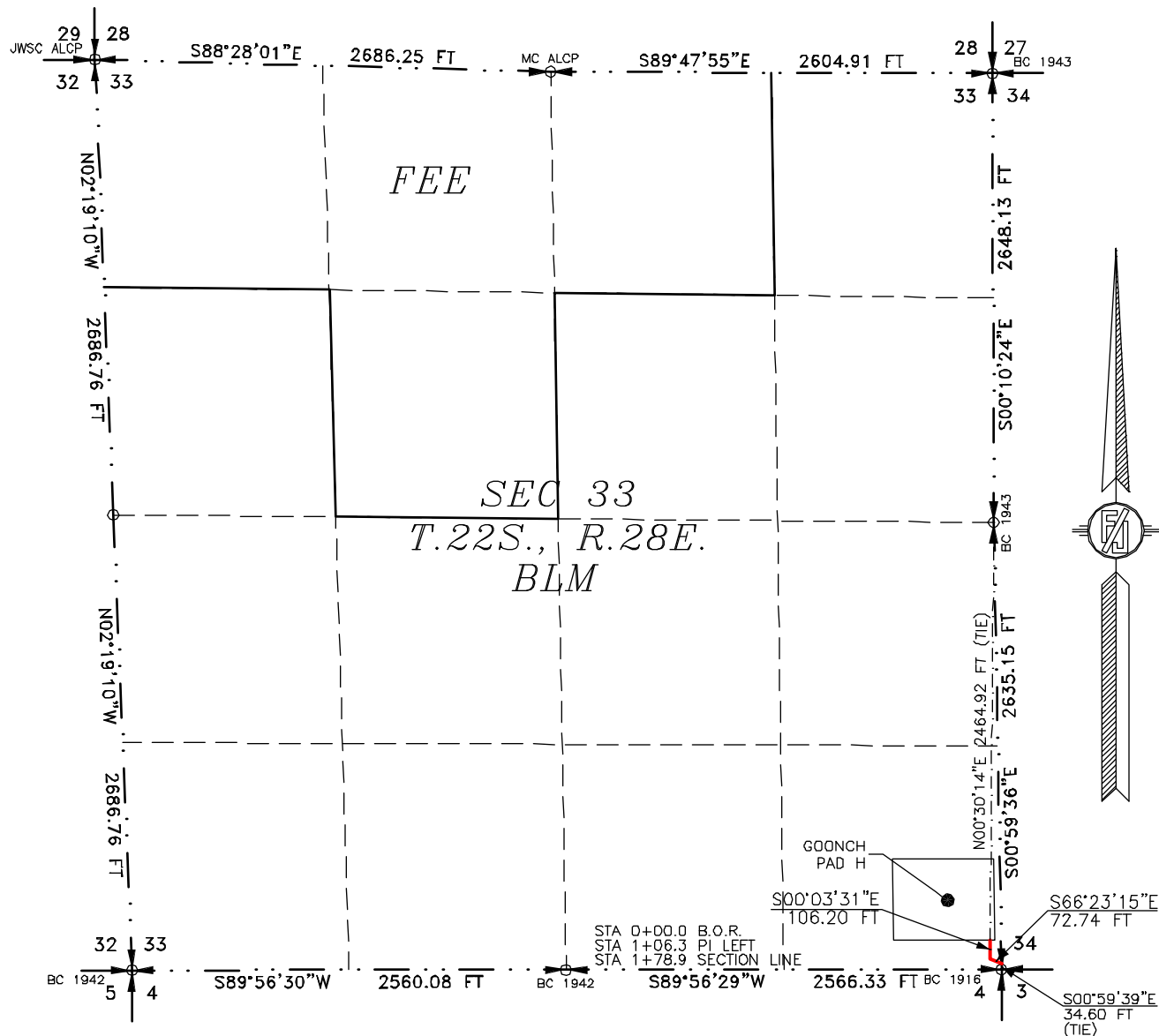
FEBRUARY 22, 2021
301 SOUTH CANAL
CARLSBAD, NEW MEXICO
SURVEY NO. 7259A

FILMON F. JARAMILLO, II
PROFESSIONAL SURVEYOR
NEW MEXICO

ACCESS ROAD PLAT

EXISTING ACCESS ROAD FOR ACCESS TO GOONCH PAD H

NOVO OIL & GAS NORTHERN DELAWARE, LLC
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 FEBRUARY 22, 2021



SEE NEXT SHEET (2-4) FOR DESCRIPTION

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 22ND DAY OF MARCH 2021

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SURVEY NO. 7259A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-4

ACCESS ROAD PLAT

EXISTING ACCESS ROAD FOR ACCESS TO GOONCH PAD H

**NOVO OIL & GAS NORTHERN DELAWARE, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 22, 2021**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE EAST QUARTER CORNER OF SAID SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS N00°30'14"E, A DISTANCE OF 2464.92 FEET;
THENCE S00°03'31"E A DISTANCE OF 106.20 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S66°23'15"E A DISTANCE OF 72.74 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 33, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S00°59'39"E, A DISTANCE OF 34.60 FEET;

SAID STRIP OF LAND BEING 178.94 FEET OR 10.85 RODS IN LENGTH, CONTAINING 0.123 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 178.94 L.F. 10.85 RODS 0.123 ACRES

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 17th DAY OF MARCH 2021

FILIMON F. JARAMILLO
FILIMON F. JARAMILLO, PLS
301 SOUTH CANAL
(575) 234-3341
CARLSBAD, NEW MEXICO

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7259A

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

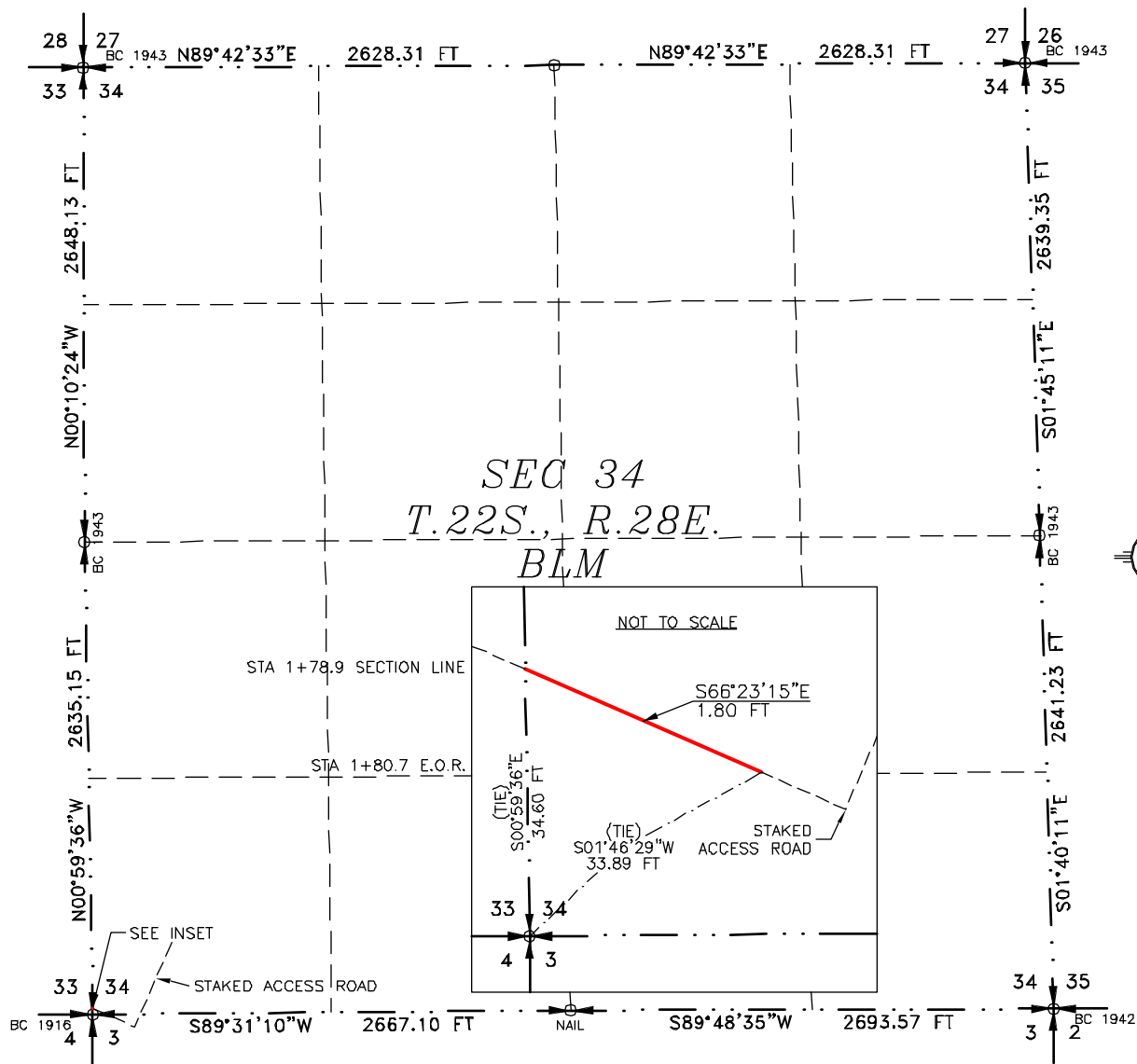
SHEET: 2-4

MADRON SURVEYING, INC.

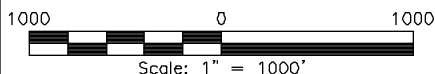
ACCESS ROAD PLAT

EXISTING ACCESS ROAD FOR ACCESS TO GOONCH PAD H

NOVO OIL & GAS NORTHERN DELAWARE, LLC
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 34, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 FEBRUARY 22, 2021



SEE NEXT SHEET (4-4) FOR DESCRIPTION

**GENERAL NOTES**

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
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SHEET: 3-4

MADRON SURVEYING, INC.

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 22ND DAY OF MARCH 2021

FILMON F. JARAMILLO, PLS. 12797
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 (575) 234-3341

MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

SURVEY NO. 7259A

CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

EXISTING ACCESS ROAD FOR ACCESS TO GOONCH PAD H

**NOVO OIL & GAS NORTHERN DELAWARE, LLC
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 34, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
FEBRUARY 22, 2021**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SW/4 OF SAID SECTION 34, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 34, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S00°59'36"E, A DISTANCE OF 34.60 FEET;
THENCE S66°23'15"E A DISTANCE OF 1.80 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 34, TOWNSHIP 22 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S01°46'29"W, A DISTANCE OF 33.89 FEET;

SAID STRIP OF LAND BEING 1.80 FEET OR 0.11 RODS IN LENGTH, CONTAINING 0.001 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 1.80 L.F. 0.11 RODS 0.001 ACRES

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 4-4

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 18th DAY OF MARCH 2021



MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 7259A



NOVO OIL & GAS NORTHERN DELAWARE, LLC

Goonch Fed Com 0409 134H

SHL: 475' FSL & 235' FEL Section 33-22S-28E

BHL: 130' FSL & 990' FEL Section 9-23S-28E

Eddy County, New Mexico

DRILLING OPERATIONS PLAN**Standard Wolfcamp 3-STRING CASING DESIGN (Not Secretary's Potash or R-111-P)****Estimated Drilling Conditions**

Target Formation	Wolfcamp A
Target Depth - TVD (ft)	9755
Planned MD (ft)	21155
Anticipated Bottom-Hole Pressure (psi)	6340.75
Anticipated Maximum Surface Pressure (psi)	4194.65
Abnormal Pressure (Yes/No)	No
Anticipated Bottom-Hole Temperature (deg F)	215 deg F
H2S Contingency Plan Required (Yes/No)	Yes

Geologic Formations

	GR	KB (25')	
Elevation	3,040	3,065	
Formation Tops	TVDss	TVD - KB	Mineral Resources
Rustler	2,639	426	Water
Bell Canyon (base of salt)	500	2,565	Water
Cherry Canyon	-575	3,640	Water
Brushy Canyon	-1,588	4,653	Oil, Gas, Water
Bone Spring Lime	-3,031	6,096	Oil, Gas, Water
Lower Avalon	-3,539	6,604	Oil, Gas, Water
1st Bone Spring Sand	-3,998	7,063	Oil, Gas, Water
2nd Bone Spring Carbonate	-4,211	7,276	Oil, Gas, Water
2nd Bone Spring Sand	-4,746	7,811	Oil, Gas, Water
3rd Bone Spring Carbonate	-5,043	8,108	Oil, Gas, Water
3rd Bone Spring Sand	-6,090	9,155	Oil, Gas, Water
Wolfcamp XY	-6,370	9,435	Oil, Gas, Water
Wolfcamp A	-6,575	9,640	Oil, Gas, Water
Wolfcamp B	-6,780	9,845	Oil, Gas, Water
Wolfcamp B Flow Unit	-7,115	10,180	Oil, Gas, Water
Wolfcamp C	-7,233	10,298	Oil, Gas, Water

Pressure Control Equipment and Pressure Testing Procedure

A 13-5/8" 5M Blowout Preventer system will be installed on a multi-bowl wellhead with a 13-5/8 flanged casing spool.

The top flange of casing spool will be set in a cellar below ground level. The blowout preventor system will consist of a single pipe ram on bottom, mud cross, double pipe ram with blind rams on bottom and pipe rams on top and annular preventer. The blowout preventer will be installed on top of the 13-3/8" surface casing and will remain installed to total depth of the well. Wellhead, blowout preventer and choke manifold diagrams have been included. A co-flex line will be used between the BOP system and the choke manifold. A pressure test certification form for the co-flex hose will be available on the location at the time of the BOP testing.

The BOP system will be isolated with a test plug and tested by an independent tester to 250 psi low and 5,000 psi high for 10 minutes.

The Surface Casing will be pressure tested to 250 psi low and 1500 psi high. Intermediate Casing will be pressure tested to 250 psi low and (.22 psi x Shoe TVD, which is equivalent to 1992.1 psi) high for 30 minutes

Drilling Fluid Program

Depth Interval (ft)	Hole Size (in.)	Fluid Type	Mud Weight (ppg)	Funnel Viscosity (sec/qt)	API Fluid Loss (ml/30min)	Total Solids (%)
0 - 476	17-1/2	Water Based Spud Mud	8.3	30-60	N/C	2.0-8.0
476 - 9,055	9-7/8"	Brine Diesel Emulsion or Brine	8.8-9.6	35-45	N/C	1.0-4.0
9,055 - 21,155	7-7/8"	Oil Based Mud	12-13.5	35-65	4-6 cc's	1.0-8.0
Drilling Fluid System		A closed loop drilling system will be used.				

Casing Program

Depth Interval	Length (ft)	Hole Size	Casing Size	Weight (ppf)	Grade	Coupling	Notes
0' - 476'	476	17-1/2	13-3/8"	54.50	J-55	BTC	
0' - 9,055'	9,055	9-7/8"	8-5/8"	32.00	P-110	TLW	
0' - 21,155'	21,155	7-7/8"	5-1/2"	20.00	P-110	DWC/C IS+	

Casing Centralizers

Surface Casing: Centralizers will be run on the bottom 3 joints of casing and then 1 centralizer per joint to surface.

Casing Performance Properties and Design Criteria

Depth Interval	Collapse (psi)	Burst (psi)	Joint Strength (1000 lbs)	Actual Design Safety Factors			Notes
				Collapse	Burst	Tension	
0' - 476'	1,130	2,730	853	5.49	1.82	6.96	
0' - 9,055'	4,230	8,930	1144	1.46	5.95	3.33	Collapse: 1/3 fluid filled at all times
0' - 21,155'	12,090	14,360	729	2.84	1.25	2.75	
Design Safety Factors		Design safety factors will meet or exceed as shown.					

Surface Casing

Collapse: $DF_C = 1.125$

- Full Internal Evacuation: Collapse force is equal to mud gradient (0.433 psi/ft) in which the casing will be run and internal evacuation of casing.
- Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.718 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70 percent of the minimum internal yield.

Tensile: $DF_T = 1.60$

- Overpull: A tensile force of 100,000 lbs over string weight with a bouyancy factor of 0.8727 in water (8.33 ppg).

Intermediate Casing

Collapse: $DF_C = 1.125$

- Partial (2/3rd) Internal Evacuation: Casing will remain greater than 1/3 fluid filled at all times with a mud weight greater than 11 ppg**
- Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run.
- Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.626 psi/ft) in which the casing will be run and internal force equivalent to the displacement fluid gradient.

Burst: $DF_B = 1.125$

- Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70 percent of the minimum internal yield.
- Gas Kick: Internal burst load of a 50 bbl gas kick at the casing with drillpipe in the hole. External force will be 10.2 ppg brine water gradient (0.531 psi/ft) and internal force will be with 10.0 ppg brine water gradient (0.521 psi/ft) with gas kick.

Tensile: $DF_T = 1.60$

- Overpull: A tensile force of 100,000 lbs over string weight with a bouyancy factor of 0.8441 in brine water (10.2 ppg).

Production CasingCollapse: $DF_C = 1.125$

- Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.688 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- Pressure Test: Pressure test will be to 80% of Internal Yield Pressure of casing intended for fracture stimulation.

Tensile: $DF_T = 1.60$

- Overpull: A tensile force of 100,000 lbs over string weight with a bouyancy factor of 0.8472 in oil-based mud (10.0 ppg).

Cementing Program**Surface Casing Cement:**

0' - 476'

Top of Cement: Surface

Cement	Amount (sacks)	Slurry Volume (cu. ft.)	Slurry Volume (bbls)	Weight (ppg)	Yield (cu. ft./sx)	Mix Water (gal/sx)	24hr 115deg Strength (psi)	Excess Cement (%)
Lead								
Tail	408	660.9	117.7	13.80	1.62	7.67	1,200	100.0%

Lead: N/A

Tail: Class C Cement with Gel, Accelerator, LCM

Intermediate Casing Cement:

Top of Lead 0

Top of Tail 8,055

Surface Shoe Depth 476

Intermediate Shoe Depth 9,055

Cement	Amount (sacks)	Slurry Volume (cu. ft.)	Slurry Volume (bbls)	Weight (ppg)	Yield (cu. ft./sx)	Mix Water (gal/sx)	24hr 115deg Strength (psi)	Excess Cement (%)
Lead	613	2193.4	390.6	10.00	3.58	19.15	900	100.0%
Tail	130.0	180.7	32.2	13.80	1.39	6.57	1,200	50.0%

Lead: Class C or H Cement with Fluid Loss, Retarder, LCM, Possibly beaded for desired compressive strength

Tail: Class C or H Cement with Fluid Loss, Retarder, LCM

Production Casing Cement:

0' - 21,155'

Top of Cement/Lead: 0'

Top of Tail: 7,055'

Cement	Amount (sacks)	Slurry Volume (cu. ft.)	Slurry Volume (bbls)	Weight (ppg)	Yield (cu. ft./sx)	Mix Water (gal/sx)	24hr 115deg Strength (psi)	Excess Cement (%)
Lead	701	1485.1	264.5	12.00	2.12	11.91	1,200	20.0%
Tail	2065	3282.6	584.6	13.20	1.59	7.98	1,200	20.0%

Lead: Class H Cement with Fluid Loss, Retarder, LCM

Tail: Class H Cement with Fluid Loss, Retarder, LCM

Logging, Testing & Coring Program

A gamma ray log will be acquired by directional drilling Measure While Drilling tools from the intermediate casing to Total Depth.



TEC-LOCK WEDGE

8.625" 32.00 LB/FT (.352" Wall)
BORUSAN MANNESMANN P110 HSCY

Pipe Body Data

Nominal OD:	8.625	in
Nominal Wall:	.352	in
Nominal Weight:	32.00	lb/ft
Plain End Weight:	31.13	lb/ft
Material Grade:	P110 HSCY	
Mill/Specification:	BORUSAN MANNESMANN	
Yield Strength:	125,000	psi
Tensile Strength:	125,000	psi
Nominal ID:	7.921	in
API Drift Diameter:	7.796	in
Special Drift Diameter:	7.875	in
RBW:	87.5 %	
Body Yield:	1,144,000	lbf
Burst:	8,930	psi
Collapse:	4,230	psi

Connection Data

Standard OD:	9.000	in
Pin Bored ID:	7.921	in
Critical Section Area:	8.61433	in ²
Tensile Efficiency:	94.2 %	
Compressive Efficiency:	100.0 %	
Longitudinal Yield Strength:	1,077,000	lbf
Compressive Limit:	1,144,000	lbf
Internal Pressure Rating:	8,930	psi
External Pressure Rating:	4,230	psi
Maximum Bend:	62.6	°/100

Operational Data

Minimum Makeup Torque:	29,900	ft*lb
Optimum Makeup Torque:	37,375	ft*lb
Maximum Makeup Torque:	80,900	ft*lb
Minimum Yield:	89,900	ft*lb
Makeup Loss:	5.97	in

Notes

Operational Torque is equivalent to the Maximum Make-Up Torque.



Technical Specifications

Connection Type: DWC/C-IS PLUS Casing STANDARD	Size(O.D.): 5-1/2 in	Weight (Wall): 20.00 lb/ft (0.361 in)	Grade: VST P110 EC
---	--------------------------------	---	------------------------------

VST P110 EC	Material
125,000	Grade
135,000	Minimum Yield Strength (psi.)
	Minimum Ultimate Strength (psi.)



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 E-mail: VAMUSAsales@vam-usa.com

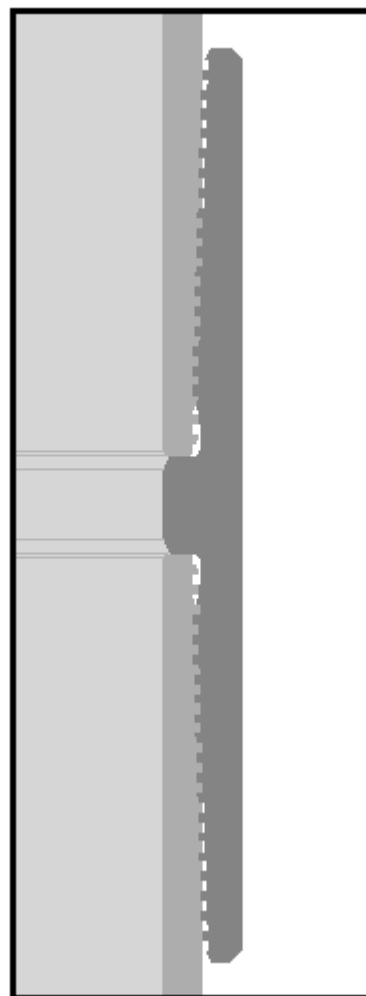
	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in.)
4.778	Nominal Pipe Body I.D. (in.)
0.361	Nominal Wall Thickness (in.)
20.00	Nominal Weight (lbs./ft.)
19.83	Plain End Weight (lbs./ft.)
5.828	Nominal Pipe Body Area (sq. in.)

	Pipe Body Performance Properties
729,000	Minimum Pipe Body Yield Strength (lbs.)
12,090	Minimum Collapse Pressure (psi.)
14,360	Minimum Internal Yield Pressure (psi.)
13,100	Hydrostatic Test Pressure (psi.)

	Connection Dimensions
6.300	Connection O.D. (in.)
4.778	Connection I.D. (in.)
4.653	Connection Drift Diameter (in.)
4.13	Make-up Loss (in.)
5.828	Critical Area (sq. in.)
100.0	Joint Efficiency (%)

	Connection Performance Properties
729,000	Joint Strength (lbs.)
26,040	Reference String Length (ft) 1.4 Design Factor
728,000	API Joint Strength (lbs.)
729,000	Compression Rating (lbs.)
12,090	API Collapse Pressure Rating (psi.)
14,360	API Internal Pressure Resistance (psi.)
104.2	Maximum Uniaxial Bend Rating [degrees/100 ft]

	Approximated Field End Torque Values
16,600	Minimum Final Torque (ft.-lbs.)
19,100	Maximum Final Torque (ft.-lbs.)
21,600	Connection Yield Torque (ft.-lbs.)



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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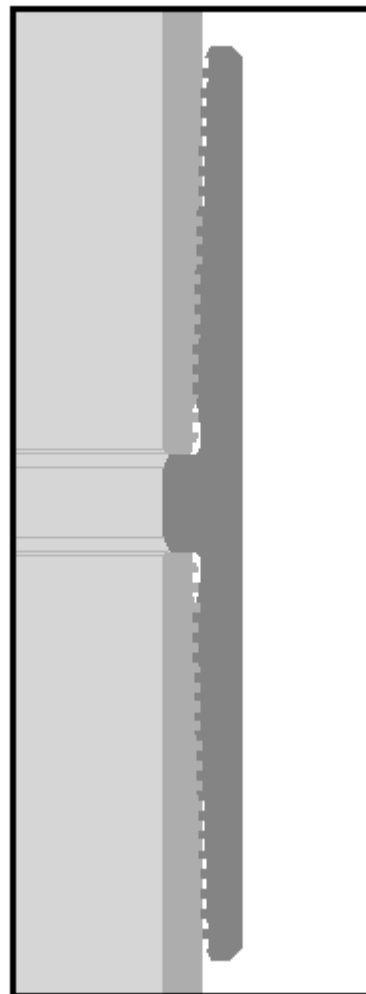
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Houston, TX 77041
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



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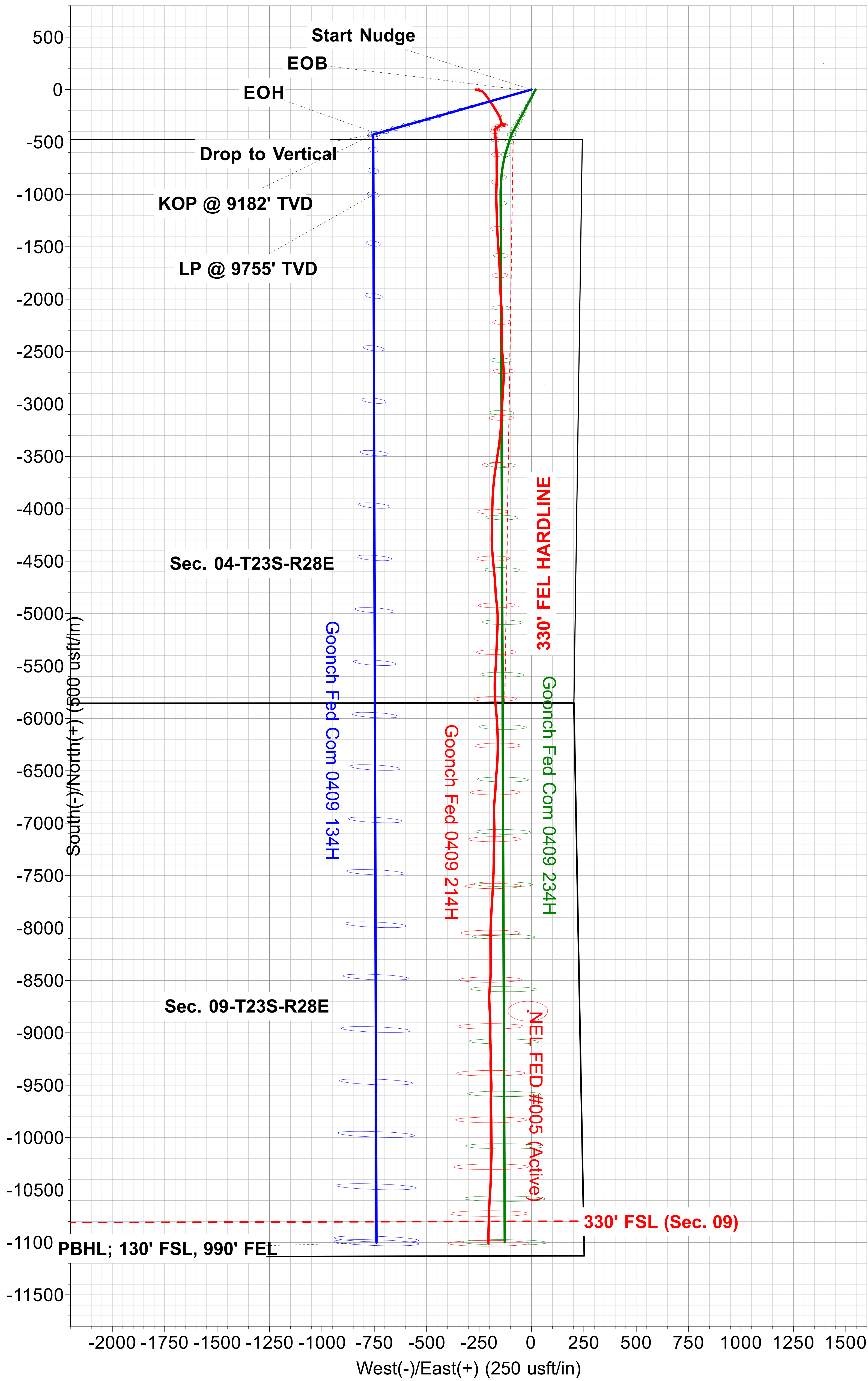
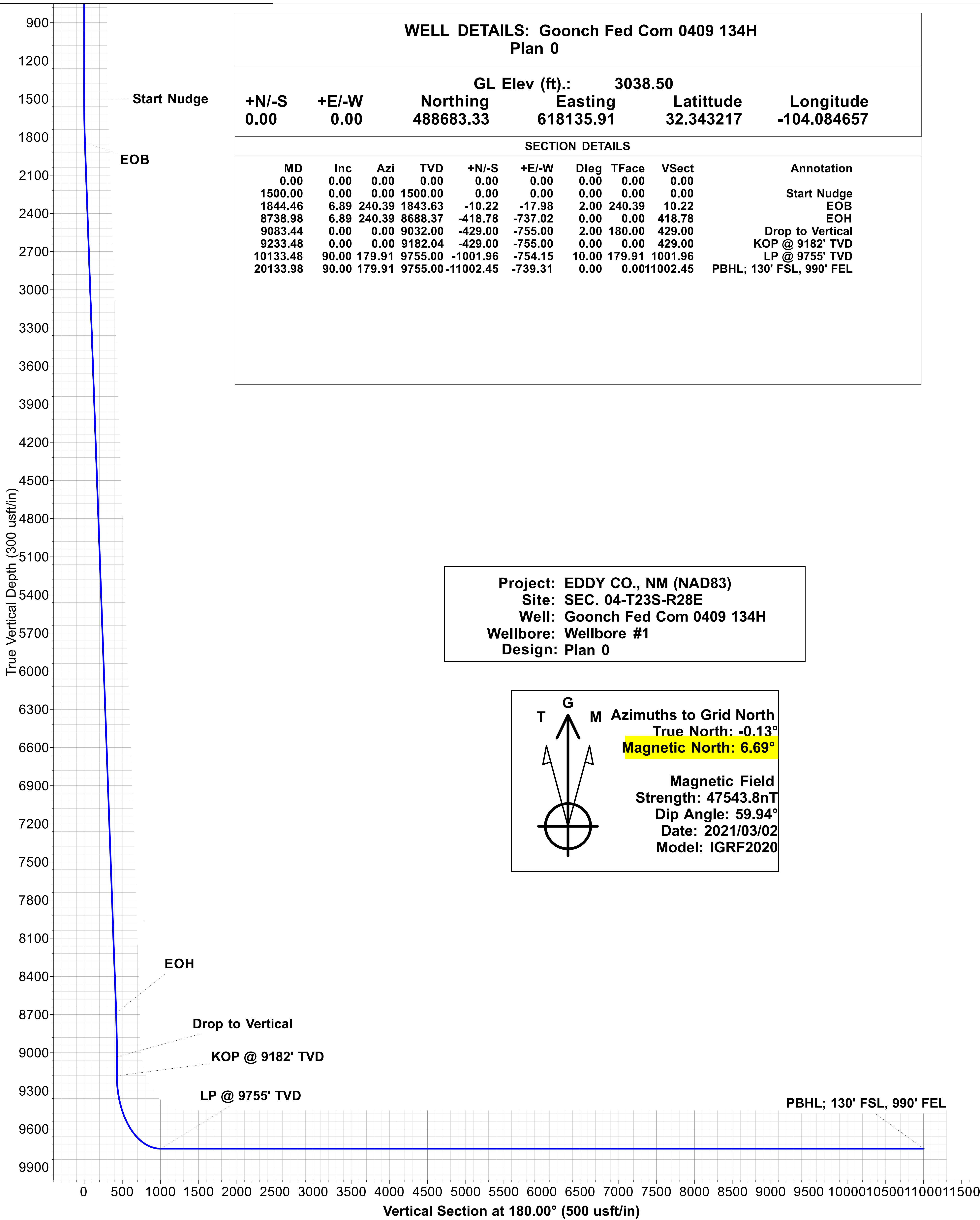
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Goonch Fed Com 0409 134H

PRECISION RIG# 596





NOVO Oil & Gas

EDDY CO., NM (NAD83)

SEC. 04-T23S-R28E

Goonch Fed Com 0409 134H

Wellbore #1

Plan 0

Anticollision Report

02 March, 2021





SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Reference	Plan 0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCSWA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	2021/03/02		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,133.98	Plan 0 (Wellbore #1)	MWD	MWD - Standard	

Summary							
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning	
			Between Centres (usft)	Between Ellipses (usft)			
SEC. 04-T23S-R28E							
Goonch Fed 0409 214H - Wellbore #1 - Wellbore #1	3,756.39	3,752.59	36.95	20.56	2.255	CC, ES, SF	
Goonch Fed Com 0409 234H - Wellbore #1 - Plan 0	1,500.00	1,500.00	19.99	13.45	3.057	CC, ES	
Goonch Fed Com 0409 234H - Wellbore #1 - Plan 0	20,133.98	19,916.15	637.82	248.17	1.637	Collision Risk Procedures R	
SEC. 09-T23S-R28E							
NEL FED #005 (Active) - Wellbore #1 - Wellbore #1						Out of range	

Offset Design: SEC. 04-T23S-R28E - Goonch Fed 0409 214H - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft	
Survey Program: 100-MWD		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0.50 usft	
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning	
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.58	2.58	0.50	0.50	-90.05	-0.24	-250.32	250.32					
100.00	100.00	105.28	105.28	0.51	0.51	-90.08	-0.36	-249.66	249.67	248.66	1.02	245.556		
168.94	168.94	171.44	171.44	0.55	0.55	-90.09	-0.38	-249.29	249.29	248.18	1.11	225.388		
200.00	200.00	201.25	201.25	0.59	0.58	-90.07	-0.32	-249.36	249.37	248.20	1.17	213.501		
300.00	300.00	303.58	303.58	0.73	0.71	-90.09	-0.41	-249.40	249.40	247.96	1.44	172.817		
345.45	345.45	347.96	347.95	0.81	0.78	-90.12	-0.53	-249.30	249.30	247.71	1.59	156.861		
400.00	400.00	401.22	401.21	0.91	0.87	-90.13	-0.55	-249.44	249.44	247.67	1.78	140.343		
500.00	500.00	499.08	499.07	1.10	1.04	-90.13	-0.55	-250.38	250.40	248.25	2.15	116.647		
600.00	600.00	599.91	599.89	1.31	1.23	-90.17	-0.74	-251.57	251.59	249.05	2.54	99.044		
700.00	700.00	699.83	699.81	1.52	1.43	-90.20	-0.89	-252.61	252.63	249.68	2.94	85.797		
800.00	800.00	799.52	799.48	1.73	1.63	-90.26	-1.13	-253.75	253.77	250.41	3.36	75.563		
900.00	900.00	899.16	899.13	1.95	1.83	-90.32	-1.42	-254.96	254.98	251.21	3.78	67.518		
1,000.00	1,000.00	998.15	998.10	2.17	2.04	-90.39	-1.77	-256.45	256.50	252.30	4.20	61.081		
1,100.00	1,100.00	1,098.18	1,098.11	2.38	2.24	-90.43	-1.95	-258.26	258.30	253.68	4.63	55.843		
1,200.00	1,200.00	1,197.87	1,197.79	2.61	2.45	-90.40	-1.82	-259.92	259.97	254.92	5.05	51.478		
1,300.00	1,300.00	1,299.10	1,299.00	2.83	2.66	-90.39	-1.77	-261.63	261.66	256.18	5.48	47.763		
1,400.00	1,400.00	1,399.42	1,399.32	3.05	2.86	-90.37	-1.71	-262.86	262.89	256.98	5.90	44.535		
1,500.00	1,500.00	1,499.42	1,499.31	3.27	3.07	-90.33	-1.54	-264.07	264.10	257.76	6.33	41.705		
1,600.00	1,599.98	1,599.86	1,599.74	3.47	3.28	29.52	-1.27	-265.26	263.75	257.01	6.74	39.112		
1,700.00	1,699.84	1,702.21	1,702.09	3.66	3.49	30.26	-0.76	-265.84	259.79	252.65	7.14	36.383		
1,800.00	1,799.45	1,805.43	1,805.31	3.86	3.70	31.39	-0.71	-265.34	251.81	244.27	7.54	33.387		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed 0409 214H - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 100-MWD													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,844.46	1,843.63	1,851.92	1,851.79	3.95	3.80	32.03	-0.96	-264.50	246.76	239.03	7.73	31.939	
1,900.00	1,898.77	1,908.33	1,908.17	4.07	3.91	32.78	-1.50	-263.06	239.68	231.73	7.95	30.142	
2,000.00	1,998.05	2,008.03	2,007.82	4.30	4.11	34.09	-2.96	-259.99	226.50	218.14	8.36	27.093	
2,100.00	2,097.33	2,108.07	2,107.79	4.53	4.32	35.64	-4.25	-256.68	213.24	204.46	8.78	24.291	
2,200.00	2,196.60	2,207.71	2,207.35	4.78	4.52	37.41	-5.51	-252.87	199.65	190.44	9.21	21.688	
2,300.00	2,295.88	2,305.30	2,304.86	5.03	4.73	39.09	-7.67	-249.40	186.38	176.74	9.64	19.336	
2,400.00	2,395.16	2,402.38	2,401.88	5.30	4.93	41.12	-9.29	-246.83	174.28	164.19	10.08	17.283	
2,500.00	2,494.44	2,501.22	2,500.70	5.56	5.14	43.53	-10.70	-244.79	163.06	152.52	10.54	15.472	
2,600.00	2,593.72	2,600.50	2,599.94	5.83	5.35	46.33	-12.08	-242.65	152.10	141.10	11.00	13.821	
2,700.00	2,692.99	2,699.68	2,699.10	6.11	5.55	49.53	-13.46	-240.59	141.61	130.13	11.48	12.333	
2,800.00	2,792.27	2,798.78	2,798.16	6.39	5.76	53.30	-14.76	-238.25	131.42	119.45	11.97	10.976	
2,900.00	2,891.55	2,897.39	2,896.74	6.67	5.97	57.68	-15.88	-236.17	122.19	109.71	12.48	9.789	
3,000.00	2,990.83	2,997.93	2,997.25	6.96	6.18	62.58	-17.54	-234.14	113.59	100.59	13.00	8.738	
3,100.00	3,090.11	3,099.32	3,098.51	7.25	6.40	67.45	-21.68	-231.44	103.95	90.43	13.51	7.691	
3,200.00	3,189.38	3,200.55	3,199.45	7.54	6.62	72.33	-28.54	-228.06	92.86	78.83	14.02	6.621	
3,300.00	3,288.66	3,301.16	3,299.55	7.83	6.85	77.62	-37.79	-224.10	80.40	65.86	14.53	5.532	
3,400.00	3,387.94	3,400.92	3,398.57	8.13	7.08	84.05	-49.03	-219.62	66.83	51.79	15.04	4.443	
3,500.00	3,487.22	3,499.41	3,496.30	8.42	7.31	93.28	-60.42	-215.21	54.23	38.67	15.56	3.485	
3,600.00	3,586.50	3,598.08	3,594.25	8.72	7.55	107.23	-71.55	-210.97	44.15	28.14	16.01	2.757	
3,700.00	3,685.77	3,696.90	3,692.36	9.02	7.79	127.00	-82.70	-206.90	37.98	21.68	16.30	2.331	
3,756.39	3,741.75	3,752.59	3,747.65	9.19	7.93	140.02	-88.99	-204.67	36.95	20.56	16.38	2.255 CC, ES, SF	
3,800.00	3,785.05	3,795.65	3,790.40	9.32	8.04	150.02	-93.77	-203.01	37.57	21.12	16.45	2.284	
3,900.00	3,884.33	3,894.46	3,888.58	9.62	8.28	169.58	-104.37	-199.39	43.06	26.34	16.72	2.575	
4,000.00	3,983.61	3,993.45	3,986.94	9.92	8.53	-176.57	-114.89	-195.90	52.26	35.08	17.18	3.042	
4,100.00	4,082.89	4,092.36	4,085.17	10.23	8.78	-166.69	-125.95	-192.28	63.52	45.80	17.72	3.585	
4,200.00	4,182.16	4,191.14	4,183.21	10.53	9.04	-159.56	-137.44	-188.53	76.14	57.84	18.30	4.162	
4,300.00	4,281.44	4,289.91	4,281.19	10.84	9.30	-154.27	-149.27	-184.66	89.69	70.82	18.87	4.752	
4,400.00	4,380.72	4,388.88	4,379.35	11.14	9.56	-150.31	-161.26	-180.86	103.71	84.26	19.45	5.332	
4,500.00	4,480.00	4,487.75	4,477.43	11.45	9.83	-147.27	-173.29	-177.22	117.96	97.94	20.02	5.891	
4,600.00	4,579.28	4,586.47	4,575.33	11.75	10.10	-144.86	-185.38	-173.55	132.50	111.91	20.59	6.435	
4,700.00	4,678.55	4,685.25	4,673.29	12.06	10.36	-142.91	-197.52	-169.84	147.27	126.12	21.15	6.964	
4,800.00	4,777.83	4,784.09	4,771.33	12.37	10.63	-141.35	-209.59	-166.14	162.15	140.45	21.70	7.473	
4,900.00	4,877.11	4,883.40	4,869.86	12.68	10.90	-140.13	-221.42	-162.51	177.00	154.75	22.25	7.955	
5,000.00	4,976.39	4,982.91	4,968.68	12.99	11.16	-139.28	-232.64	-159.09	191.57	168.78	22.79	8.405	
5,100.00	5,075.67	5,082.53	5,067.66	13.29	11.42	-138.66	-243.42	-155.91	205.85	182.51	23.33	8.821	
5,200.00	5,174.94	5,182.44	5,166.98	13.60	11.69	-138.18	-253.91	-153.02	219.80	195.92	23.88	9.205	
5,300.00	5,274.22	5,283.00	5,266.95	13.91	11.96	-137.72	-264.50	-150.69	233.20	208.77	24.43	9.546	
5,400.00	5,373.50	5,383.18	5,366.55	14.22	12.23	-137.26	-275.15	-149.01	246.02	221.04	24.98	9.849	
5,500.00	5,472.78	5,482.93	5,465.75	14.53	12.49	-136.89	-285.53	-147.56	258.59	233.07	25.52	10.132	
5,600.00	5,572.06	5,582.84	5,565.13	14.84	12.76	-136.59	-295.68	-146.29	270.93	244.87	26.07	10.394	
5,700.00	5,671.33	5,682.85	5,664.63	15.15	13.02	-136.34	-305.67	-145.26	283.02	256.41	26.61	10.635	
5,800.00	5,770.61	5,781.11	5,762.49	15.46	13.27	-136.32	-314.47	-143.97	295.12	268.00	27.12	10.881	
5,900.00	5,869.89	5,879.26	5,860.39	15.78	13.51	-136.73	-321.12	-141.77	307.62	280.00	27.62	11.139	
6,000.00	5,969.17	5,978.78	5,959.71	16.09	13.74	-137.33	-326.73	-139.17	320.23	292.13	28.10	11.397	
6,100.00	6,068.45	6,078.56	6,059.33	16.40	13.97	-137.96	-331.90	-136.59	332.76	304.18	28.58	11.644	
6,200.00	6,167.72	6,178.94	6,159.58	16.71	14.20	-138.72	-336.08	-134.09	345.02	315.97	29.05	11.876	
6,300.00	6,267.00	6,282.05	6,262.63	17.02	14.42	-139.63	-339.09	-131.86	356.80	327.27	29.53	12.084	
6,400.00	6,366.28	6,387.70	6,368.26	17.33	14.64	-140.71	-340.63	-131.03	367.07	337.07	29.99	12.238	
6,500.00	6,465.56	6,487.15	6,467.71	17.65	14.84	-141.80	-341.02	-131.10	376.44	346.02	30.42	12.375	
6,600.00	6,564.84	6,585.47	6,566.03	17.96	15.03	-142.88	-341.10	-130.90	386.18	355.34	30.84	12.524	
6,700.00	6,664.11	6,684.39	6,664.95	18.27	15.21	-144.00	-340.64	-130.47	396.21	364.97	31.24	12.681	
6,800.00	6,763.39	6,783.44	6,763.99	18.58	15.40	-145.16	-339.45	-129.89	406.48	374.83	31.65	12.845	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed 0409 214H - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 100-MWD													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
6,900.00	6,862.67	6,883.38	6,863.92	18.90	15.59	-146.29	-338.19	-129.40	416.79	384.75	32.05	13.005	
7,000.00	6,961.95	6,983.25	6,963.79	19.21	15.77	-147.33	-337.15	-129.12	427.07	394.62	32.45	13.160	
7,100.00	7,061.22	7,082.98	7,063.51	19.52	15.96	-148.30	-336.21	-128.98	437.35	404.49	32.86	13.310	
7,200.00	7,160.50	7,183.39	7,163.92	19.84	16.15	-149.22	-335.39	-129.02	447.57	414.30	33.27	13.453	
7,300.00	7,259.78	7,284.22	7,264.75	20.15	16.34	-150.07	-334.83	-129.38	457.57	423.88	33.69	13.583	
7,400.00	7,359.06	7,384.58	7,365.10	20.46	16.54	-150.86	-334.42	-130.04	467.37	433.27	34.10	13.704	
7,500.00	7,458.34	7,484.88	7,465.40	20.78	16.73	-151.62	-333.98	-130.91	477.05	442.53	34.52	13.819	
7,600.00	7,557.61	7,585.02	7,565.53	21.09	16.93	-152.33	-333.70	-131.96	486.62	451.68	34.94	13.927	
7,700.00	7,656.89	7,686.18	7,666.68	21.40	17.12	-152.99	-333.71	-133.20	496.07	460.71	35.37	14.027	
7,800.00	7,756.17	7,789.42	7,769.90	21.72	17.33	-153.59	-334.15	-135.08	504.96	469.16	35.80	14.105	
7,900.00	7,855.45	7,890.39	7,870.84	22.03	17.53	-154.11	-335.03	-137.52	513.29	477.06	36.23	14.167	
8,000.00	7,954.73	7,989.84	7,970.26	22.35	17.72	-154.57	-336.24	-139.93	521.62	484.96	36.66	14.228	
8,100.00	8,054.00	8,088.25	8,068.63	22.66	17.92	-154.98	-337.66	-142.20	530.09	493.00	37.09	14.292	
8,200.00	8,153.28	8,187.00	8,167.35	22.97	18.11	-155.38	-339.15	-144.21	538.84	501.32	37.52	14.363	
8,300.00	8,252.56	8,286.93	8,267.25	23.29	18.31	-155.76	-340.73	-146.20	547.65	509.70	37.95	14.430	
8,400.00	8,351.84	8,387.36	8,367.63	23.60	18.51	-156.12	-342.41	-148.37	556.31	517.92	38.39	14.491	
8,500.00	8,451.12	8,487.10	8,467.34	23.92	18.72	-156.44	-344.31	-150.59	564.90	526.07	38.83	14.547	
8,600.00	8,550.39	8,586.11	8,566.30	24.23	18.92	-156.72	-346.49	-152.76	573.51	534.23	39.27	14.603	
8,700.00	8,649.67	8,684.10	8,664.23	24.55	19.12	-156.96	-349.00	-154.65	582.35	542.64	39.71	14.664	
8,738.98	8,688.37	8,723.00	8,703.11	24.67	19.20	-157.04	-350.09	-155.31	585.88	545.99	39.89	14.689	
8,800.00	8,749.02	8,782.44	8,762.52	24.83	19.33	-157.16	-351.86	-156.24	590.87	550.73	40.14	14.720	
8,900.00	8,848.69	8,881.19	8,861.21	25.04	19.53	-157.22	-355.05	-157.62	596.61	556.07	40.53	14.719	
9,000.00	8,948.57	8,981.90	8,961.86	25.21	19.75	-157.10	-358.44	-158.95	599.19	558.25	40.94	14.638	
9,083.44	9,032.00	9,066.34	9,046.24	25.35	19.93	83.49	-361.14	-160.23	598.74	557.46	41.28	14.504	
9,100.00	9,048.56	9,083.19	9,063.08	25.37	19.96	83.54	-361.66	-160.51	598.41	557.06	41.35	14.471	
9,200.00	9,148.56	9,187.58	9,167.41	25.53	20.18	83.76	-364.20	-162.72	596.04	554.27	41.77	14.271	
9,233.48	9,182.04	9,222.53	9,202.34	25.58	20.26	83.80	-364.78	-163.67	595.08	553.18	41.90	14.202	
9,250.00	9,198.56	9,239.78	9,219.58	25.60	20.29	-96.17	-365.01	-164.17	594.60	552.63	41.97	14.167	
9,300.00	9,248.41	9,288.56	9,268.34	25.70	20.39	-96.58	-365.56	-165.64	593.44	551.27	42.16	14.074	
9,347.79	9,295.59	9,333.15	9,312.91	25.82	20.48	-97.24	-366.22	-166.78	593.04	550.70	42.34	14.007	
9,350.00	9,297.76	9,335.20	9,314.96	25.83	20.49	-97.28	-366.26	-166.83	593.04	550.69	42.35	14.004	
9,400.00	9,346.23	9,381.15	9,360.90	25.97	20.58	-98.23	-367.12	-167.76	593.58	551.05	42.52	13.959	
9,450.00	9,393.45	9,426.11	9,405.84	26.14	20.67	-99.39	-368.14	-168.44	595.26	552.57	42.69	13.943	
9,500.00	9,439.05	9,471.78	9,451.49	26.34	20.77	-100.77	-369.29	-168.98	598.30	555.44	42.86	13.961	
9,550.00	9,482.71	9,516.24	9,495.93	26.55	20.86	-102.27	-370.37	-169.52	602.87	559.86	43.01	14.017	
9,600.00	9,524.07	9,558.45	9,538.12	26.79	20.95	-103.77	-371.37	-170.05	609.35	566.20	43.15	14.122	
9,650.00	9,562.83	9,598.08	9,577.74	27.06	21.03	-105.15	-372.29	-170.57	618.13	574.85	43.28	14.284	
9,700.00	9,598.70	9,634.38	9,614.03	27.35	21.11	-106.27	-373.09	-171.06	629.55	586.17	43.38	14.512	
9,750.00	9,631.39	9,667.17	9,646.81	27.66	21.17	-107.03	-373.79	-171.49	643.92	600.45	43.47	14.813	
9,800.00	9,660.66	9,696.60	9,676.23	28.01	21.24	-107.36	-374.38	-171.85	661.45	617.91	43.54	15.190	
9,850.00	9,686.29	9,722.43	9,702.06	28.39	21.29	-107.15	-374.87	-172.15	682.22	638.62	43.60	15.647	
9,900.00	9,708.08	9,744.49	9,724.11	28.79	21.33	-106.31	-375.28	-172.39	706.19	662.55	43.64	16.182	
9,950.00	9,725.87	9,762.61	9,742.23	29.22	21.37	-104.74	-375.60	-172.59	733.24	689.58	43.66	16.793	
10,000.00	9,739.52	9,776.69	9,756.30	29.68	21.40	-102.37	-375.84	-172.73	763.13	719.46	43.67	17.475	
10,050.00	9,748.93	9,786.62	9,766.23	30.16	21.42	-99.11	-376.00	-172.83	795.55	751.89	43.66	18.223	
10,100.00	9,754.02	9,806.24	9,785.85	30.66	21.47	-96.26	-376.52	-173.02	830.10	786.41	43.69	19.000	
10,133.48	9,755.00	10,841.98	10,357.42	31.01	28.27	-135.65	-1,039.11	-167.63	839.82	793.79	46.03	18.246	
10,200.00	9,755.00	10,907.10	10,352.66	31.72	29.00	-135.39	-1,104.05	-166.92	836.78	789.58	47.21	17.727	
10,300.00	9,755.00	11,003.69	10,345.74	32.85	30.12	-134.99	-1,200.37	-165.35	832.73	783.69	49.04	16.979	
10,400.00	9,755.00	11,103.41	10,338.66	34.04	31.32	-134.57	-1,299.83	-163.66	828.82	777.77	51.04	16.237	
10,500.00	9,755.00	11,201.40	10,331.14	35.29	32.60	-134.09	-1,397.50	-161.35	825.03	771.85	53.18	15.513	
10,600.00	9,755.00	11,296.96	10,323.21	36.58	33.90	-133.54	-1,492.68	-158.03	821.67	766.24	55.43	14.824	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed 0409 214H - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		100-MWD								Rule Assigned:			Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,700.00	9,755.00	11,388.75	10,316.58	37.92	35.13	-133.05	-1,584.16	-154.88	819.11	761.48	57.63	14.213		
10,800.00	9,755.00	11,486.41	10,311.40	39.30	36.48	-132.67	-1,681.65	-152.35	817.28	757.33	59.95	13.632		
10,900.00	9,755.00	11,577.00	10,307.81	40.72	37.76	-132.40	-1,772.15	-150.29	816.17	754.02	62.15	13.132		
10,921.03	9,755.00	11,593.49	10,307.50	41.02	37.99	-132.37	-1,788.63	-150.03	816.12	753.57	62.55	13.047		
11,000.00	9,755.00	11,657.36	10,307.45	42.16	38.87	-132.33	-1,852.49	-149.09	816.85	752.81	64.04	12.756		
11,100.00	9,755.00	11,740.75	10,309.27	43.64	40.04	-132.35	-1,935.85	-147.38	819.73	753.78	65.94	12.431		
11,200.00	9,755.00	11,843.88	10,312.00	45.14	41.54	-132.35	-2,038.89	-144.31	823.60	755.30	68.31	12.057		
11,300.00	9,755.00	11,941.45	10,314.39	46.66	42.98	-132.34	-2,136.38	-141.24	827.47	756.85	70.62	11.718		
11,400.00	9,755.00	12,077.41	10,315.80	48.21	45.01	-132.44	-2,272.31	-141.66	827.39	753.72	73.67	11.231		
11,500.00	9,755.00	12,173.39	10,315.73	49.77	46.50	-132.44	-2,368.29	-141.69	827.20	751.18	76.01	10.882		
11,537.68	9,755.00	12,209.91	10,315.56	50.37	47.07	-132.43	-2,404.81	-141.51	827.17	750.24	76.93	10.752		
11,600.00	9,755.00	12,264.82	10,315.16	51.36	47.94	-132.37	-2,459.71	-140.69	827.48	749.12	78.36	10.559		
11,700.00	9,755.00	12,351.14	10,314.41	52.96	49.31	-132.21	-2,545.99	-137.86	829.23	748.53	80.70	10.276		
11,800.00	9,755.00	12,463.65	10,313.75	54.57	51.07	-131.96	-2,658.38	-132.96	832.06	748.36	83.71	9.940		
11,900.00	9,755.00	12,610.93	10,310.08	56.20	53.35	-131.82	-2,805.59	-133.87	829.60	742.31	87.28	9.505		
12,000.00	9,755.00	12,708.79	10,306.90	57.83	54.89	-131.80	-2,903.34	-136.88	825.03	735.22	89.81	9.186		
12,100.00	9,755.00	12,807.86	10,303.85	59.48	56.47	-131.77	-3,002.34	-139.45	820.93	728.53	92.39	8.885		
12,200.00	9,755.00	12,909.43	10,300.39	61.14	58.07	-131.73	-3,103.81	-142.25	816.49	721.45	95.04	8.591		
12,300.00	9,755.00	12,996.40	10,298.24	62.81	59.43	-131.74	-3,190.71	-144.74	812.63	715.28	97.35	8.348		
12,400.00	9,755.00	13,111.01	10,298.35	64.49	61.22	-131.97	-3,305.22	-149.39	809.66	709.72	99.94	8.102		
12,500.00	9,755.00	13,216.64	10,297.98	66.18	62.88	-132.27	-3,410.64	-156.03	804.65	702.38	102.27	7.868		
12,600.00	9,755.00	13,322.64	10,296.75	67.87	64.56	-132.60	-3,516.33	-163.97	798.18	693.61	104.57	7.633		
12,700.00	9,755.00	13,399.51	10,297.83	69.57	65.79	-132.93	-3,593.01	-169.39	793.77	687.43	106.34	7.465		
12,800.00	9,755.00	13,498.63	10,300.62	71.28	67.37	-133.44	-3,691.81	-176.66	790.23	681.98	108.25	7.300		
12,900.00	9,755.00	13,577.25	10,303.20	72.99	68.64	-133.79	-3,770.28	-180.75	788.60	678.68	109.92	7.174		
12,918.69	9,755.00	13,593.31	10,303.81	73.31	68.90	-133.85	-3,786.32	-181.35	788.57	678.31	110.26	7.152		
13,000.00	9,755.00	13,663.75	10,306.96	74.71	70.04	-134.13	-3,856.65	-183.57	789.16	677.44	111.72	7.064		
13,100.00	9,755.00	13,756.15	10,312.05	76.43	71.55	-134.52	-3,948.88	-185.94	791.07	677.51	113.57	6.966		
13,200.00	9,755.00	13,857.50	10,316.95	78.16	73.22	-134.84	-4,050.11	-187.03	793.61	677.86	115.74	6.857		
13,300.00	9,755.00	13,961.56	10,320.42	79.90	74.94	-135.09	-4,154.10	-188.30	794.98	676.91	118.07	6.733		
13,400.00	9,755.00	14,059.50	10,324.70	81.63	76.56	-135.36	-4,251.94	-189.11	797.38	677.18	120.19	6.634		
13,500.00	9,755.00	14,162.66	10,326.58	83.37	78.29	-135.44	-4,355.07	-188.83	798.75	676.02	122.73	6.508		
13,600.00	9,755.00	14,256.88	10,325.56	85.12	79.87	-135.21	-4,449.21	-185.04	800.71	675.16	125.54	6.378		
13,700.00	9,755.00	14,353.03	10,324.80	86.87	81.49	-134.95	-4,545.25	-180.64	803.27	674.83	128.44	6.254		
13,800.00	9,755.00	14,440.78	10,324.86	88.62	82.96	-134.74	-4,632.89	-176.32	806.72	675.67	131.04	6.156		
13,900.00	9,755.00	14,569.38	10,325.09	90.38	85.11	-134.56	-4,761.41	-172.18	808.96	674.21	134.75	6.003		
14,000.00	9,755.00	14,640.00	10,325.17	92.13	86.30	-134.44	-4,831.98	-169.62	811.53	674.75	136.78	5.933		
14,100.00	9,755.00	14,718.87	10,327.26	93.89	87.64	-134.34	-4,910.70	-165.29	817.20	678.28	138.93	5.882		
14,200.00	9,755.00	14,879.33	10,330.83	95.66	90.33	-134.32	-5,070.96	-161.03	820.60	677.28	143.32	5.725		
14,300.00	9,755.00	15,007.43	10,327.32	97.42	92.47	-134.27	-5,198.97	-163.46	816.87	670.25	146.62	5.571		
14,400.00	9,755.00	15,101.89	10,324.94	99.19	94.05	-134.26	-5,293.38	-165.56	813.41	664.22	149.18	5.452		
14,500.00	9,755.00	15,199.72	10,322.96	100.96	95.68	-134.28	-5,391.16	-167.71	810.32	658.55	151.77	5.339		
14,600.00	9,755.00	15,303.30	10,321.24	102.73	97.42	-134.30	-5,494.70	-169.87	807.57	653.13	154.44	5.229		
14,700.00	9,755.00	15,402.41	10,319.67	104.51	99.08	-134.42	-5,593.73	-173.64	803.64	646.78	156.86	5.123		
14,800.00	9,755.00	15,480.00	10,319.21	106.28	100.39	-134.48	-5,671.30	-175.28	801.66	642.72	158.94	5.044		
14,813.80	9,755.00	15,490.13	10,319.26	106.53	100.57	-134.49	-5,681.43	-175.34	801.63	642.42	159.21	5.035		
14,900.00	9,755.00	15,555.19	10,320.27	108.06	101.68	-134.53	-5,746.48	-174.94	802.83	641.95	160.88	4.990		
15,000.00	9,755.00	15,635.51	10,322.68	109.84	103.07	-134.55	-5,826.73	-172.84	806.69	643.79	162.90	4.952		
15,100.00	9,755.00	15,724.45	10,326.51	111.62	104.61	-134.54	-5,915.49	-168.65	812.91	647.68	165.23	4.920		
15,200.00	9,755.00	15,869.94	10,326.60	113.41	107.10	-134.31	-6,060.87	-163.72	814.69	644.91	169.78	4.798		
15,300.00	9,755.00	15,979.25	10,324.59	115.19	108.94	-134.09	-6,170.12	-161.06	815.05	641.90	173.15	4.707		
15,400.00	9,755.00	16,096.69	10,322.09	116.98	110.91	-133.94	-6,287.53	-160.51	813.83	637.32	176.51	4.611		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed 0409 214H - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 100-MWD												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	9,755.00	16,206.94	10,318.45	118.77	112.77	-133.86	-6,397.71	-162.32	810.20	630.63	179.57	4.512	
15,600.00	9,755.00	16,300.03	10,317.64	120.55	114.32	-133.98	-6,490.73	-165.66	806.90	625.06	181.84	4.437	
15,700.00	9,755.00	16,384.03	10,318.65	122.34	115.73	-134.21	-6,574.65	-169.01	804.81	621.11	183.70	4.381	
15,800.00	9,755.00	16,490.04	10,321.22	124.14	117.53	-134.49	-6,680.59	-171.90	804.50	618.63	185.87	4.328	
15,900.00	9,755.00	16,610.58	10,321.09	125.93	119.56	-134.74	-6,801.03	-176.77	801.41	613.07	188.34	4.255	
16,000.00	9,755.00	16,678.06	10,321.10	127.72	120.71	-134.83	-6,868.48	-178.50	799.42	609.26	190.16	4.204	
16,002.81	9,755.00	16,680.02	10,321.11	127.77	120.74	-134.83	-6,870.44	-178.51	799.42	609.21	190.21	4.203	
16,100.00	9,755.00	16,763.43	10,321.96	129.51	122.18	-134.85	-6,953.85	-177.94	800.45	608.04	192.41	4.160	
16,200.00	9,755.00	16,869.95	10,323.21	131.31	124.01	-134.86	-7,060.35	-176.74	801.99	606.74	195.25	4.108	
16,300.00	9,755.00	16,982.93	10,324.19	133.11	125.93	-134.95	-7,173.32	-177.31	802.14	604.12	198.02	4.051	
16,400.00	9,755.00	17,084.44	10,324.54	134.90	127.65	-135.09	-7,274.81	-179.51	800.75	600.36	200.39	3.996	
16,433.48	9,755.00	17,110.74	10,324.76	135.51	128.10	-135.12	-7,301.10	-179.85	800.60	599.56	201.04	3.982	
16,500.00	9,755.00	17,168.43	10,325.64	136.70	129.09	-135.17	-7,358.79	-180.01	801.10	598.65	202.44	3.957	
16,600.00	9,755.00	17,270.06	10,328.18	138.50	130.81	-135.35	-7,460.39	-180.77	802.24	597.54	204.70	3.919	
16,700.00	9,755.00	17,385.92	10,330.61	140.30	132.78	-135.59	-7,576.20	-182.88	802.39	595.27	207.12	3.874	
16,800.00	9,755.00	17,487.34	10,331.69	142.10	134.50	-135.80	-7,677.57	-185.86	800.99	591.76	209.23	3.828	
16,900.00	9,755.00	17,595.30	10,332.58	143.90	136.32	-136.03	-7,785.47	-189.37	799.22	587.82	211.40	3.781	
17,000.00	9,755.00	17,681.24	10,333.09	145.70	137.79	-136.17	-7,871.38	-191.35	797.93	584.56	213.38	3.740	
17,100.00	9,755.00	17,786.70	10,333.88	147.51	139.60	-136.35	-7,976.81	-193.86	796.70	581.06	215.65	3.694	
17,142.74	9,755.00	17,820.30	10,334.35	148.28	140.17	-136.41	-8,010.39	-194.58	796.46	580.07	216.39	3.681	
17,200.00	9,755.00	17,856.00	10,335.14	149.31	140.79	-136.47	-8,046.08	-195.05	796.97	579.86	217.10	3.671	
17,300.00	9,755.00	17,946.00	10,339.15	151.11	142.34	-136.69	-8,135.99	-195.21	800.01	581.20	218.81	3.656	
17,400.00	9,755.00	18,035.00	10,345.43	152.92	143.86	-136.99	-8,224.76	-194.90	805.22	585.05	220.17	3.657	
17,500.00	9,755.00	18,147.99	10,353.30	154.72	145.79	-137.38	-8,337.47	-194.96	810.27	588.18	222.09	3.648	
17,600.00	9,755.00	18,297.34	10,355.74	156.53	148.33	-137.54	-8,466.77	-195.70	811.07	585.62	225.46	3.597	
17,700.00	9,755.00	18,392.00	10,355.49	158.34	149.94	-137.74	-8,581.36	-199.47	808.15	580.78	227.36	3.554	
17,800.00	9,755.00	18,482.00	10,356.35	160.14	151.48	-137.89	-8,671.32	-201.43	807.27	577.99	229.28	3.521	
17,803.66	9,755.00	18,482.00	10,356.35	160.21	151.48	-137.89	-8,671.32	-201.43	807.26	577.97	229.29	3.521	
17,900.00	9,755.00	18,547.83	10,358.05	161.95	152.62	-137.93	-8,737.12	-200.52	809.64	578.86	230.78	3.508	
18,000.00	9,755.00	18,643.25	10,360.99	163.76	154.27	-137.91	-8,832.45	-197.45	813.98	580.71	233.27	3.489	
18,100.00	9,755.00	18,791.76	10,361.44	165.57	156.82	-137.87	-8,980.91	-196.06	814.44	577.11	237.33	3.432	
18,200.00	9,755.00	18,880.87	10,360.29	167.38	158.34	-137.84	-9,070.01	-196.30	813.23	573.44	239.80	3.391	
18,212.56	9,755.00	18,891.07	10,360.16	167.60	158.52	-137.82	-9,080.22	-196.16	813.22	573.11	240.11	3.387	
18,300.00	9,755.00	18,974.49	10,359.23	169.19	159.94	-137.68	-9,163.60	-194.19	813.78	571.05	242.73	3.353	
18,400.00	9,755.00	19,072.96	10,359.87	171.00	161.61	-137.73	-9,262.07	-194.31	814.08	568.94	245.14	3.321	
18,500.00	9,755.00	19,158.46	10,361.76	172.81	163.07	-137.83	-9,347.54	-194.44	815.54	568.56	246.98	3.302	
18,600.00	9,755.00	19,260.54	10,363.57	174.62	164.82	-137.79	-9,449.57	-191.91	818.43	568.66	249.77	3.277	
18,700.00	9,755.00	19,421.37	10,357.16	176.43	167.59	-137.56	-9,610.17	-192.98	813.72	559.37	254.35	3.199	
18,800.00	9,755.00	19,489.59	10,354.93	178.24	168.77	-137.49	-9,678.34	-193.60	810.55	553.81	256.74	3.157	
18,839.10	9,755.00	19,518.01	10,354.54	178.95	169.26	-137.46	-9,706.76	-193.41	810.29	552.67	257.62	3.145	
18,900.00	9,755.00	19,568.35	10,354.44	180.05	170.14	-137.41	-9,757.09	-192.47	810.87	551.75	259.11	3.129	
19,000.00	9,755.00	19,681.18	10,354.09	181.87	172.08	-137.35	-9,869.91	-191.49	811.09	548.83	262.27	3.093	
19,100.00	9,755.00	19,780.15	10,353.65	183.68	173.77	-137.33	-9,968.89	-191.27	810.82	545.88	264.94	3.060	
19,138.45	9,755.00	19,817.46	10,353.37	184.38	174.40	-137.30	-10,006.19	-190.96	810.79	544.78	266.01	3.048	
19,200.00	9,755.00	19,873.72	10,353.17	185.49	175.36	-137.27	-10,062.44	-190.40	810.97	543.37	267.60	3.031	
19,300.00	9,755.00	20,005.25	10,353.00	187.30	177.61	-137.30	-10,193.96	-191.04	810.69	539.97	270.72	2.995	
19,400.00	9,755.00	20,090.00	10,351.91	189.12	179.08	-137.34	-10,278.69	-192.67	808.36	535.41	272.95	2.962	
19,500.00	9,755.00	20,183.73	10,351.53	190.93	180.70	-137.38	-10,372.41	-193.62	807.28	531.97	275.31	2.932	
19,600.00	9,755.00	20,303.88	10,350.77	192.75	182.77	-137.49	-10,492.53	-196.29	805.16	527.29	277.88	2.898	
19,700.00	9,755.00	20,403.02	10,349.31	194.56	184.47	-137.59	-10,591.61	-199.36	801.89	521.78	280.11	2.863	
19,800.00	9,755.00	20,489.89	10,348.75	196.38	185.97	-137.69	-10,678.45	-201.61	799.58	517.46	282.12	2.834	
19,900.00	9,755.00	20,583.32	10,349.46	198.19	187.59	-137.81	-10,771.87	-203.00	799.02	514.86	284.16	2.812	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional

Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed 0409 214H - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 100-MWD													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,981.39	9,755.00	20,660.54	10,350.18	199.67	188.92	-137.92	-10,849.07	-204.34	798.56	512.81	285.75	2.795	
20,000.00	9,755.00	20,676.11	10,350.42	200.01	189.19	-137.94	-10,864.64	-204.54	798.60	512.53	286.07	2.792	
20,100.00	9,755.00	20,777.84	10,352.11	201.82	190.94	-138.06	-10,966.35	-205.18	799.32	511.08	288.24	2.773	
20,133.98	9,755.00	20,811.82	10,352.36	202.44	191.52	-138.09	-11,000.33	-205.32	799.38	510.35	289.03	2.766	



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed Com 0409 234H - Wellbore #1 - Plan 0													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.50	0.50	89.94	0.02	19.99	19.99						
100.00	100.00	100.00	100.00	0.51	0.51	89.94	0.02	19.99	19.99	18.98	1.01	19.712			
200.00	200.00	200.00	200.00	0.59	0.59	89.94	0.02	19.99	19.99	18.81	1.18	17.004			
300.00	300.00	300.00	300.00	0.73	0.73	89.94	0.02	19.99	19.99	18.53	1.46	13.665			
400.00	400.00	400.00	400.00	0.91	0.91	89.94	0.02	19.99	19.99	18.17	1.82	11.001			
500.00	500.00	500.00	500.00	1.10	1.10	89.94	0.02	19.99	19.99	17.78	2.21	9.060			
600.00	600.00	600.00	600.00	1.31	1.31	89.94	0.02	19.99	19.99	17.38	2.61	7.644			
700.00	700.00	700.00	700.00	1.52	1.52	89.94	0.02	19.99	19.99	16.95	3.04	6.586			
800.00	800.00	800.00	800.00	1.73	1.73	89.94	0.02	19.99	19.99	16.53	3.46	5.773			
900.00	900.00	900.00	900.00	1.95	1.95	89.94	0.02	19.99	19.99	16.09	3.90	5.132			
1,000.00	1,000.00	1,000.00	1,000.00	2.17	2.17	89.94	0.02	19.99	19.99	15.66	4.33	4.615			
1,100.00	1,100.00	1,100.00	1,100.00	2.38	2.38	89.94	0.02	19.99	19.99	15.22	4.77	4.191			
1,200.00	1,200.00	1,200.00	1,200.00	2.61	2.61	89.94	0.02	19.99	19.99	14.78	5.21	3.837			
1,300.00	1,300.00	1,300.00	1,300.00	2.83	2.83	89.94	0.02	19.99	19.99	14.34	5.65	3.537			
1,400.00	1,400.00	1,400.00	1,400.00	3.05	3.05	89.94	0.02	19.99	19.99	13.89	6.10	3.280			
1,500.00	1,500.00	1,500.00	1,500.00	3.27	3.27	89.94	0.02	19.99	19.99	13.45	6.54	3.057 CC, ES			
1,600.00	1,599.98	1,599.98	1,599.98	3.47	3.49	-152.73	0.02	19.99	21.53	14.56	6.96	3.092			
1,700.00	1,699.84	1,699.84	1,699.84	3.66	3.71	-157.93	0.02	19.99	26.29	18.92	7.37	3.567			
1,800.00	1,799.45	1,799.45	1,799.45	3.86	3.94	-163.32	0.02	19.99	34.52	26.74	7.78	4.435			
1,844.46	1,843.63	1,843.63	1,843.63	3.95	4.03	-165.38	0.02	19.99	39.33	31.36	7.97	4.934			
1,900.00	1,898.77	1,898.77	1,898.77	4.07	4.16	-167.49	0.02	19.99	45.81	37.61	8.20	5.585			
2,000.00	1,998.05	1,998.05	1,998.05	4.30	4.38	-170.07	0.02	19.99	57.58	48.96	8.62	6.679			
2,100.00	2,097.33	2,098.71	2,098.69	4.53	4.58	-170.65	-1.62	19.55	68.45	59.43	9.02	7.591			
2,200.00	2,196.60	2,199.61	2,199.45	4.78	4.75	-168.93	-6.68	18.19	77.33	67.94	9.39	8.234			
2,300.00	2,295.88	2,299.23	2,298.85	5.03	4.93	-166.76	-13.08	16.48	85.50	75.72	9.78	8.743			
2,400.00	2,395.16	2,398.85	2,398.25	5.30	5.11	-164.97	-19.48	14.76	93.77	83.59	10.18	9.213			
2,500.00	2,494.44	2,498.47	2,497.65	5.56	5.29	-163.47	-25.89	13.05	102.11	91.53	10.59	9.645			
2,600.00	2,593.72	2,598.09	2,597.04	5.83	5.49	-162.20	-32.29	11.33	110.52	99.51	11.00	10.043			
2,700.00	2,692.99	2,697.71	2,696.44	6.11	5.69	-161.11	-38.69	9.61	118.97	107.54	11.43	10.408			
2,800.00	2,792.27	2,797.32	2,795.84	6.39	5.89	-160.16	-45.09	7.90	127.46	115.59	11.86	10.743			
2,900.00	2,891.55	2,896.94	2,895.24	6.67	6.10	-159.33	-51.49	6.18	135.97	123.67	12.30	11.052			
3,000.00	2,990.83	2,996.56	2,994.64	6.96	6.31	-158.60	-57.89	4.47	144.52	131.77	12.75	11.335			
3,100.00	3,090.11	3,096.18	3,094.03	7.25	6.53	-157.95	-64.29	2.75	153.08	139.88	13.20	11.596			
3,200.00	3,189.38	3,195.80	3,193.43	7.54	6.74	-157.37	-70.70	1.03	161.66	148.00	13.66	11.837			
3,300.00	3,288.66	3,295.42	3,292.83	7.83	6.96	-156.85	-77.10	-0.68	170.26	156.14	14.12	12.060			
3,400.00	3,387.94	3,395.04	3,392.23	8.13	7.19	-156.38	-83.50	-2.40	178.87	164.28	14.58	12.266			
3,500.00	3,487.22	3,494.65	3,491.62	8.42	7.41	-155.95	-89.90	-4.11	187.49	172.43	15.05	12.456			
3,600.00	3,586.50	3,594.27	3,591.02	8.72	7.64	-155.56	-96.30	-5.83	196.11	180.59	15.52	12.634			
3,700.00	3,685.77	3,693.89	3,690.42	9.02	7.87	-155.20	-102.70	-7.55	204.75	188.75	16.00	12.798			
3,800.00	3,785.05	3,793.51	3,789.82	9.32	8.10	-154.87	-109.11	-9.26	213.40	196.92	16.48	12.952			
3,900.00	3,884.33	3,893.13	3,889.22	9.62	8.33	-154.57	-115.51	-10.98	222.05	205.09	16.96	13.095			
4,000.00	3,983.61	3,992.75	3,988.61	9.92	8.56	-154.29	-121.91	-12.69	230.70	213.27	17.44	13.229			
4,100.00	4,082.89	4,092.36	4,088.01	10.23	8.80	-154.03	-128.31	-14.41	239.37	221.44	17.92	13.354			
4,200.00	4,182.16	4,191.98	4,187.41	10.53	9.03	-153.78	-134.71	-16.13	248.03	229.62	18.41	13.472			
4,300.00	4,281.44	4,291.60	4,286.81	10.84	9.27	-153.56	-141.11	-17.84	256.70	237.80	18.90	13.582			
4,400.00	4,380.72	4,391.22	4,386.20	11.14	9.51	-153.35	-147.51	-19.56	265.38	245.99	19.39	13.686			
4,500.00	4,480.00	4,490.84	4,485.60	11.45	9.75	-153.15	-153.92	-21.27	274.05	254.17	19.88	13.783			
4,600.00	4,579.28	4,590.46	4,585.00	11.75	9.99	-152.96	-160.32	-22.99	282.74	262.36	20.38	13.876			
4,700.00	4,678.55	4,690.08	4,684.40	12.06	10.23	-152.79	-166.72	-24.71	291.42	270.55	20.87	13.962			
4,800.00	4,777.83	4,789.69	4,783.80	12.37	10.47	-152.63	-173.12	-26.42	300.10	278.74	21.37	14.045			
4,900.00	4,877.11	4,889.31	4,883.19	12.68	10.71	-152.47	-179.52	-28.14	308.79	286.93	21.87	14.122			
5,000.00	4,976.39	4,988.93	4,982.59	12.99	10.95	-152.32	-185.92	-29.85	317.48	295.12	22.36	14.196			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed Com 0409 234H - Wellbore #1 - Plan 0													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD					Rule Assigned:							Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.00	5,075.67	5,088.55	5,081.99	13.29	11.20	-152.19	-192.32	-31.57	326.18	303.31	22.86	14.266			
5,200.00	5,174.94	5,188.17	5,181.39	13.60	11.44	-152.05	-198.73	-33.29	334.87	311.50	23.36	14.332			
5,300.00	5,274.22	5,287.79	5,280.78	13.91	11.68	-151.93	-205.13	-35.00	343.56	319.70	23.87	14.395			
5,400.00	5,373.50	5,387.41	5,380.18	14.22	11.93	-151.81	-211.53	-36.72	352.26	327.89	24.37	14.456			
5,500.00	5,472.78	5,487.02	5,479.58	14.53	12.18	-151.70	-217.93	-38.44	360.96	336.09	24.87	14.513			
5,600.00	5,572.06	5,586.64	5,578.98	14.84	12.42	-151.59	-224.33	-40.15	369.66	344.28	25.38	14.567			
5,700.00	5,671.33	5,686.26	5,678.38	15.15	12.67	-151.49	-230.73	-41.87	378.36	352.48	25.88	14.619			
5,800.00	5,770.61	5,785.88	5,777.77	15.46	12.91	-151.39	-237.14	-43.58	387.06	360.68	26.39	14.669			
5,900.00	5,869.89	5,885.50	5,877.17	15.78	13.16	-151.30	-243.54	-45.30	395.77	368.88	26.89	14.717			
6,000.00	5,969.17	5,985.12	5,976.57	16.09	13.41	-151.21	-249.94	-47.02	404.47	377.07	27.40	14.762			
6,100.00	6,068.45	6,084.73	6,075.97	16.40	13.66	-151.12	-256.34	-48.73	413.18	385.27	27.91	14.806			
6,200.00	6,167.72	6,184.35	6,175.36	16.71	13.91	-151.04	-262.74	-50.45	421.88	393.47	28.41	14.848			
6,300.00	6,267.00	6,283.97	6,274.76	17.02	14.15	-150.96	-269.14	-52.16	430.59	401.67	28.92	14.888			
6,400.00	6,366.28	6,383.59	6,374.16	17.33	14.40	-150.88	-275.54	-53.88	439.30	409.87	29.43	14.926			
6,500.00	6,465.56	6,483.21	6,473.56	17.65	14.65	-150.81	-281.95	-55.60	448.01	418.07	29.94	14.963			
6,600.00	6,564.84	6,582.83	6,572.96	17.96	14.90	-150.74	-288.35	-57.31	456.72	426.27	30.45	14.999			
6,700.00	6,664.11	6,682.45	6,672.35	18.27	15.15	-150.67	-294.75	-59.03	465.43	434.47	30.96	15.033			
6,800.00	6,763.39	6,782.06	6,771.75	18.58	15.40	-150.61	-301.15	-60.74	474.14	442.67	31.47	15.066			
6,900.00	6,862.67	6,881.68	6,871.15	18.90	15.65	-150.54	-307.55	-62.46	482.85	450.87	31.98	15.097			
7,000.00	6,961.95	6,981.30	6,970.55	19.21	15.90	-150.48	-313.95	-64.18	491.56	459.07	32.49	15.128			
7,100.00	7,061.22	7,080.92	7,069.94	19.52	16.15	-150.42	-320.35	-65.89	500.27	467.27	33.01	15.157			
7,200.00	7,160.50	7,180.54	7,169.34	19.84	16.40	-150.37	-326.76	-67.61	508.99	475.47	33.52	15.186			
7,300.00	7,259.78	7,280.16	7,268.74	20.15	16.65	-150.31	-333.16	-69.32	517.70	483.67	34.03	15.213			
7,400.00	7,359.06	7,379.77	7,368.14	20.46	16.90	-150.26	-339.56	-71.04	526.41	491.87	34.54	15.240			
7,500.00	7,458.34	7,479.39	7,467.54	20.78	17.15	-150.21	-345.96	-72.76	535.13	500.07	35.06	15.265			
7,600.00	7,557.61	7,579.01	7,566.93	21.09	17.41	-150.16	-352.36	-74.47	543.84	508.27	35.57	15.290			
7,700.00	7,656.89	7,678.63	7,666.33	21.40	17.66	-150.11	-358.76	-76.19	552.56	516.47	36.08	15.314			
7,800.00	7,756.17	7,778.25	7,765.73	21.72	17.91	-150.07	-365.17	-77.90	561.27	524.68	36.60	15.337			
7,900.00	7,855.45	7,877.87	7,865.13	22.03	18.16	-150.02	-371.57	-79.62	569.99	532.88	37.11	15.360			
8,000.00	7,954.73	7,977.49	7,964.52	22.35	18.41	-149.98	-377.97	-81.34	578.70	541.08	37.62	15.381			
8,100.00	8,054.00	8,077.10	8,063.92	22.66	18.66	-149.94	-384.37	-83.05	587.42	549.28	38.14	15.402			
8,200.00	8,153.28	8,176.72	8,163.32	22.97	18.92	-149.89	-390.77	-84.77	596.14	557.48	38.65	15.423			
8,300.00	8,252.56	8,276.34	8,262.72	23.29	19.17	-149.86	-397.17	-86.48	604.85	565.69	39.17	15.443			
8,400.00	8,351.84	8,375.96	8,362.12	23.60	19.42	-149.82	-403.57	-88.20	613.57	573.89	39.68	15.462			
8,500.00	8,451.12	8,475.58	8,461.51	23.92	19.67	-149.78	-409.98	-89.92	622.29	582.09	40.20	15.480			
8,600.00	8,550.39	8,575.20	8,560.91	24.23	19.93	-149.74	-416.38	-91.63	631.01	590.29	40.71	15.499			
8,700.00	8,649.67	8,674.82	8,660.31	24.55	20.18	-149.71	-422.78	-93.35	639.72	598.49	41.23	15.516			
8,738.98	8,688.37	8,711.64	8,697.06	24.67	20.26	-149.71	-424.93	-93.92	643.18	601.77	41.41	15.533			
8,800.00	8,749.02	8,769.19	8,754.56	24.83	20.37	-149.83	-427.38	-94.58	648.28	606.64	41.64	15.567			
8,900.00	8,848.69	8,863.52	8,848.87	25.04	20.55	-150.09	-428.98	-95.01	654.89	612.91	41.99	15.598			
9,000.00	8,948.57	8,963.22	8,948.57	25.21	20.73	-150.33	-428.98	-95.01	658.93	616.61	42.32	15.569			
9,083.44	9,032.00	9,053.22	9,038.54	25.35	20.90	90.10	-430.14	-95.19	659.84	617.18	42.66	15.468			
9,100.00	9,048.56	9,073.30	9,058.56	25.37	20.95	90.24	-431.75	-95.45	659.63	616.87	42.76	15.426			
9,200.00	9,148.56	9,190.02	9,172.71	25.53	21.36	92.25	-454.81	-99.09	656.86	613.33	43.52	15.092			
9,233.48	9,182.04	9,226.43	9,207.08	25.58	21.52	93.30	-466.67	-100.97	655.59	611.76	43.84	14.956			
9,250.00	9,198.56	9,243.88	9,223.27	25.60	21.60	-86.14	-473.11	-101.99	654.95	610.95	44.00	14.887			
9,300.00	9,248.41	9,295.39	9,269.77	25.70	21.86	-84.71	-494.95	-105.44	652.86	608.34	44.52	14.664			
9,350.00	9,297.76	9,345.07	9,312.55	25.83	22.15	-83.34	-519.85	-109.38	650.59	605.50	45.09	14.429			
9,400.00	9,346.23	9,393.09	9,351.68	25.97	22.46	-82.03	-547.33	-113.73	648.16	602.47	45.69	14.185			
9,450.00	9,393.45	9,439.61	9,387.21	26.14	22.79	-80.79	-576.97	-118.41	645.58	599.26	46.32	13.938			
9,500.00	9,439.05	9,480.11	9,416.08	26.34	23.10	-79.77	-605.03	-122.77	642.95	596.06	46.89	13.713			
9,550.00	9,482.71	9,516.12	9,440.02	26.55	23.39	-78.91	-631.66	-126.45	640.72	593.33	47.39	13.521			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed Com 0409 234H - Wellbore #1 - Plan 0													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD					Rule Assigned:							Offset Well Error:	0.50 usft
Reference	Offset	Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)				
9,600.00	9,524.07	9,550.00	9,461.00	26.79	23.67	-78.14	-658.07	-129.67	638.91	591.07	47.84	13.356			
9,650.00	9,562.83	9,586.99	9,482.08	27.06	24.01	-77.32	-688.28	-132.90	637.46	589.11	48.35	13.183			
9,700.00	9,598.70	9,621.97	9,500.20	27.35	24.34	-76.61	-718.06	-135.66	636.33	587.50	48.83	13.032			
9,750.00	9,631.39	9,650.00	9,513.40	27.66	24.61	-76.09	-742.71	-137.67	635.51	586.38	49.14	12.934			
9,800.00	9,660.66	9,691.21	9,530.59	28.01	25.03	-75.37	-780.06	-140.28	634.82	585.04	49.77	12.754			
9,850.00	9,686.29	9,725.55	9,542.84	28.39	25.39	-74.86	-812.08	-142.13	634.35	584.09	50.26	12.621			
9,900.00	9,708.08	9,759.74	9,553.13	28.79	25.76	-74.42	-844.65	-143.67	634.02	583.26	50.76	12.491			
9,950.00	9,725.87	9,800.00	9,562.75	29.22	26.21	-74.00	-883.71	-145.09	633.83	582.39	51.45	12.320			
10,000.00	9,739.52	9,827.81	9,567.79	29.68	26.54	-73.79	-911.04	-145.82	633.64	581.81	51.83	12.225			
10,050.00	9,748.93	9,861.74	9,572.15	30.16	26.93	-73.61	-944.68	-146.44	633.55	581.14	52.41	12.088			
10,100.00	9,754.02	9,900.00	9,574.68	30.66	27.39	-73.50	-982.85	-146.76	633.52	580.37	53.15	11.919			
10,113.81	9,754.66	9,904.99	9,574.83	30.81	27.45	-73.50	-987.83	-146.77	633.49	580.29	53.21	11.906			
10,133.48	9,755.00	9,919.10	9,575.00	31.01	27.62	-73.49	-1,001.94	-146.77	633.49	580.00	53.49	11.843			
10,134.37	9,755.00	9,919.10	9,575.00	31.02	27.62	-73.49	-1,001.94	-146.77	633.49	580.00	53.48	11.844			
10,200.00	9,755.00	9,984.46	9,575.00	31.72	28.43	-73.49	-1,067.30	-146.64	633.52	578.54	54.98	11.523			
10,300.00	9,755.00	10,084.46	9,575.00	32.85	29.71	-73.49	-1,167.30	-146.45	633.56	576.20	57.36	11.045			
10,400.00	9,755.00	10,184.46	9,575.00	34.04	31.05	-73.50	-1,267.30	-146.26	633.60	573.74	59.86	10.584			
10,500.00	9,755.00	10,284.46	9,575.00	35.29	32.44	-73.50	-1,367.30	-146.06	633.65	571.19	62.46	10.145			
10,600.00	9,755.00	10,384.46	9,575.00	36.58	33.86	-73.50	-1,467.30	-145.87	633.69	568.54	65.15	9.727			
10,700.00	9,755.00	10,484.46	9,575.00	37.92	35.33	-73.50	-1,567.30	-145.68	633.73	565.82	67.91	9.331			
10,800.00	9,755.00	10,584.46	9,575.00	39.30	36.83	-73.50	-1,667.30	-145.48	633.78	563.03	70.75	8.958			
10,900.00	9,755.00	10,684.46	9,575.00	40.72	38.36	-73.50	-1,767.30	-145.29	633.82	560.18	73.64	8.607			
11,000.00	9,755.00	10,784.46	9,575.00	42.16	39.91	-73.50	-1,867.30	-145.10	633.86	557.27	76.59	8.276			
11,100.00	9,755.00	10,884.46	9,575.00	43.64	41.48	-73.50	-1,967.30	-144.90	633.91	554.32	79.59	7.965			
11,200.00	9,755.00	10,984.46	9,575.00	45.14	43.08	-73.51	-2,067.30	-144.71	633.95	551.32	82.63	7.672			
11,300.00	9,755.00	11,084.46	9,575.00	46.66	44.69	-73.51	-2,167.30	-144.52	633.99	548.29	85.71	7.397			
11,400.00	9,755.00	11,184.46	9,575.00	48.21	46.32	-73.51	-2,267.30	-144.32	634.04	545.22	88.82	7.139			
11,500.00	9,755.00	11,284.46	9,575.00	49.77	47.97	-73.51	-2,367.30	-144.13	634.08	542.12	91.96	6.895			
11,600.00	9,755.00	11,384.46	9,575.00	51.36	49.63	-73.51	-2,467.30	-143.94	634.12	538.99	95.13	6.666			
11,700.00	9,755.00	11,484.46	9,575.00	52.96	51.29	-73.51	-2,567.30	-143.74	634.17	535.84	98.32	6.450			
11,800.00	9,755.00	11,584.46	9,575.00	54.57	52.97	-73.51	-2,667.30	-143.55	634.21	532.67	101.54	6.246			
11,900.00	9,755.00	11,684.46	9,575.00	56.20	54.66	-73.51	-2,767.30	-143.35	634.25	529.47	104.78	6.053			
12,000.00	9,755.00	11,784.46	9,575.00	57.83	56.36	-73.51	-2,867.30	-143.16	634.30	526.26	108.04	5.871			
12,100.00	9,755.00	11,884.46	9,575.00	59.48	58.07	-73.52	-2,967.30	-142.97	634.34	523.03	111.31	5.699			
12,200.00	9,755.00	11,984.46	9,575.00	61.14	59.78	-73.52	-3,067.30	-142.77	634.38	519.78	114.60	5.536			
12,300.00	9,755.00	12,084.46	9,575.00	62.81	61.50	-73.52	-3,167.30	-142.58	634.43	516.52	117.91	5.381			
12,400.00	9,755.00	12,184.46	9,575.00	64.49	63.23	-73.52	-3,267.30	-142.39	634.47	513.25	121.22	5.234			
12,500.00	9,755.00	12,284.46	9,575.00	66.18	64.96	-73.52	-3,367.30	-142.19	634.51	509.96	124.55	5.094			
12,600.00	9,755.00	12,384.46	9,575.00	67.87	66.70	-73.52	-3,467.30	-142.00	634.55	506.66	127.89	4.962			
12,700.00	9,755.00	12,484.46	9,575.00	69.57	68.44	-73.52	-3,567.30	-141.81	634.60	503.35	131.24	4.835			
12,800.00	9,755.00	12,584.46	9,575.00	71.28	70.19	-73.52	-3,667.30	-141.61	634.64	500.04	134.60	4.715			
12,900.00	9,755.00	12,684.46	9,575.00	72.99	71.94	-73.52	-3,767.30	-141.42	634.68	496.71	137.97	4.600			
13,000.00	9,755.00	12,784.46	9,575.00	74.71	73.70	-73.53	-3,867.30	-141.23	634.73	493.38	141.35	4.490			
13,100.00	9,755.00	12,884.46	9,575.00	76.43	75.45	-73.53	-3,967.30	-141.03	634.77	490.03	144.74	4.386			
13,200.00	9,755.00	12,984.46	9,575.00	78.16	77.22	-73.53	-4,067.30	-140.84	634.81	486.69	148.13	4.286			
13,300.00	9,755.00	13,084.46	9,575.00	79.90	78.98	-73.53	-4,167.30	-140.65	634.86	483.33	151.53	4.190			
13,400.00	9,755.00	13,184.46	9,575.00	81.63	80.75	-73.53	-4,267.30	-140.45	634.90	479.97	154.93	4.098			
13,500.00	9,755.00	13,284.46	9,575.00	83.37	82.52	-73.53	-4,367.30	-140.26	634.94	476.60	158.34	4.010			
13,600.00	9,755.00	13,384.46	9,575.00	85.12	84.29	-73.53	-4,467.30	-140.07	634.99	473.23	161.76	3.926			
13,700.00	9,755.00	13,484.46	9,575.00	86.87	86.07	-73.53	-4,567.30	-139.87	635.03	469.85	165.18	3.844			
13,800.00	9,755.00	13,584.46	9,575.00	88.62	87.85	-73.54	-4,667.30	-139.68	635.07	466.47	168.61	3.767			
13,900.00	9,755.00	13,684.46	9,575.00	90.38	89.63	-73.54	-4,767.30	-139.49	635.12	463.08	172.04	3.692			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed Com 0409 234H - Wellbore #1 - Plan 0												Offset Site Error:	0.00 usft
Survey Program: 0-MWD												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	9,755.00	13,784.46	9,575.00	92.13	91.41	-73.54	-4,867.30	-139.29	635.16	459.69	175.47	3.620	
14,100.00	9,755.00	13,884.46	9,575.00	93.89	93.19	-73.54	-4,967.30	-139.10	635.20	456.29	178.91	3.550	
14,200.00	9,755.00	13,984.46	9,575.00	95.66	94.98	-73.54	-5,067.30	-138.91	635.25	452.89	182.35	3.484	
14,300.00	9,755.00	14,084.46	9,575.00	97.42	96.77	-73.54	-5,167.30	-138.71	635.29	449.49	185.80	3.419	
14,400.00	9,755.00	14,184.46	9,575.00	99.19	98.56	-73.54	-5,267.30	-138.52	635.33	446.08	189.25	3.357	
14,500.00	9,755.00	14,284.46	9,575.00	100.96	100.35	-73.54	-5,367.30	-138.32	635.38	442.67	192.70	3.297	
14,600.00	9,755.00	14,384.46	9,575.00	102.73	102.14	-73.54	-5,467.30	-138.13	635.42	439.26	196.16	3.239	
14,700.00	9,755.00	14,484.46	9,575.00	104.51	103.93	-73.55	-5,567.29	-137.94	635.46	435.84	199.62	3.183	
14,800.00	9,755.00	14,584.46	9,575.00	106.28	105.73	-73.55	-5,667.29	-137.74	635.51	432.42	203.08	3.129	
14,900.00	9,755.00	14,684.46	9,575.00	108.06	107.52	-73.55	-5,767.29	-137.55	635.55	429.00	206.54	3.077	
15,000.00	9,755.00	14,784.46	9,575.00	109.84	109.32	-73.55	-5,867.29	-137.36	635.59	425.58	210.01	3.026	
15,100.00	9,755.00	14,884.46	9,575.00	111.62	111.12	-73.55	-5,967.29	-137.16	635.64	422.15	213.48	2.977	
15,200.00	9,755.00	14,984.46	9,575.00	113.41	112.92	-73.55	-6,067.29	-136.97	635.68	418.73	216.95	2.930	
15,300.00	9,755.00	15,084.46	9,575.00	115.19	114.72	-73.55	-6,167.29	-136.78	635.72	415.30	220.43	2.884	
15,400.00	9,755.00	15,184.46	9,575.00	116.98	116.52	-73.55	-6,267.29	-136.58	635.76	411.86	223.90	2.839	
15,500.00	9,755.00	15,284.46	9,575.00	118.77	118.32	-73.55	-6,367.29	-136.39	635.81	408.43	227.38	2.796	
15,600.00	9,755.00	15,384.46	9,575.00	120.55	120.12	-73.56	-6,467.29	-136.20	635.85	404.99	230.86	2.754	
15,700.00	9,755.00	15,484.46	9,575.00	122.34	121.93	-73.56	-6,567.29	-136.00	635.89	401.56	234.34	2.714	
15,800.00	9,755.00	15,584.46	9,575.00	124.14	123.73	-73.56	-6,667.29	-135.81	635.94	398.12	237.82	2.674	
15,900.00	9,755.00	15,684.46	9,575.00	125.93	125.54	-73.56	-6,767.29	-135.62	635.98	394.67	241.31	2.636	
16,000.00	9,755.00	15,784.46	9,575.00	127.72	127.34	-73.56	-6,867.29	-135.42	636.02	391.23	244.79	2.598	
16,100.00	9,755.00	15,884.46	9,575.00	129.51	129.15	-73.56	-6,967.29	-135.23	636.07	387.79	248.28	2.562	
16,200.00	9,755.00	15,984.46	9,575.00	131.31	130.96	-73.56	-7,067.29	-135.04	636.11	384.34	251.77	2.527	
16,300.00	9,755.00	16,084.46	9,575.00	133.11	132.76	-73.56	-7,167.29	-134.84	636.15	380.89	255.26	2.492	
16,400.00	9,755.00	16,184.46	9,575.00	134.90	134.57	-73.56	-7,267.29	-134.65	636.20	377.45	258.75	2.459	
16,500.00	9,755.00	16,284.46	9,575.00	136.70	136.38	-73.57	-7,367.29	-134.46	636.24	374.00	262.24	2.426	
16,600.00	9,755.00	16,384.46	9,575.00	138.50	138.19	-73.57	-7,467.29	-134.26	636.28	370.55	265.74	2.394	
16,700.00	9,755.00	16,484.46	9,575.00	140.30	140.00	-73.57	-7,567.29	-134.07	636.33	367.09	269.23	2.363	
16,800.00	9,755.00	16,584.46	9,575.00	142.10	141.81	-73.57	-7,667.29	-133.88	636.37	363.64	272.73	2.333	
16,900.00	9,755.00	16,684.46	9,575.00	143.90	143.62	-73.57	-7,767.29	-133.68	636.41	360.19	276.23	2.304	
17,000.00	9,755.00	16,784.46	9,575.00	145.70	145.44	-73.57	-7,867.29	-133.49	636.46	356.73	279.73	2.275	
17,100.00	9,755.00	16,884.46	9,575.00	147.51	147.25	-73.57	-7,967.29	-133.30	636.50	353.27	283.23	2.247	
17,200.00	9,755.00	16,984.46	9,575.00	149.31	149.06	-73.57	-8,067.29	-133.10	636.54	349.82	286.73	2.220	
17,300.00	9,755.00	17,084.46	9,575.00	151.11	150.87	-73.58	-8,167.29	-132.91	636.59	346.36	290.23	2.193	
17,400.00	9,755.00	17,184.46	9,575.00	152.92	152.69	-73.58	-8,267.29	-132.71	636.63	342.90	293.73	2.167	
17,500.00	9,755.00	17,284.46	9,575.00	154.72	154.50	-73.58	-8,367.29	-132.52	636.67	339.44	297.23	2.142	
17,600.00	9,755.00	17,384.46	9,575.00	156.53	156.32	-73.58	-8,467.29	-132.33	636.72	335.98	300.74	2.117	
17,700.00	9,755.00	17,484.46	9,575.00	158.34	158.13	-73.58	-8,567.29	-132.13	636.76	332.52	304.24	2.093	
17,800.00	9,755.00	17,584.46	9,575.00	160.14	159.95	-73.58	-8,667.29	-131.94	636.80	329.05	307.75	2.069	
17,900.00	9,755.00	17,684.46	9,575.00	161.95	161.76	-73.58	-8,767.29	-131.75	636.85	325.59	311.25	2.046	
18,000.00	9,755.00	17,784.46	9,575.00	163.76	163.58	-73.58	-8,867.29	-131.55	636.89	322.13	314.76	2.023	
18,100.00	9,755.00	17,884.46	9,575.00	165.57	165.39	-73.58	-8,967.29	-131.36	636.93	318.66	318.27	2.001	
18,200.00	9,755.00	17,984.46	9,575.00	167.38	167.21	-73.59	-9,067.29	-131.17	636.98	315.20	321.78	1.980 Collision Risk Procedures Req.	
18,300.00	9,755.00	18,084.46	9,575.00	169.19	169.03	-73.59	-9,167.29	-130.97	637.02	311.73	325.29	1.958 Collision Risk Procedures Req.	
18,400.00	9,755.00	18,184.46	9,575.00	171.00	170.84	-73.59	-9,267.29	-130.78	637.06	308.26	328.80	1.938 Collision Risk Procedures Req.	
18,500.00	9,755.00	18,284.46	9,575.00	172.81	172.66	-73.59	-9,367.29	-130.59	637.10	304.80	332.31	1.917 Collision Risk Procedures Req.	
18,600.00	9,755.00	18,384.46	9,575.00	174.62	174.48	-73.59	-9,467.29	-130.39	637.15	301.33	335.82	1.897 Collision Risk Procedures Req.	
18,700.00	9,755.00	18,484.46	9,575.00	176.43	176.30	-73.59	-9,567.29	-130.20	637.19	297.86	339.33	1.878 Collision Risk Procedures Req.	
18,800.00	9,755.00	18,584.46	9,575.00	178.24	178.11	-73.59	-9,667.29	-130.01	637.23	294.39	342.85	1.859 Collision Risk Procedures Req.	
18,900.00	9,755.00	18,684.46	9,575.00	180.05	179.93	-73.59	-9,767.29	-129.81	637.28	290.92	346.36	1.840 Collision Risk Procedures Req.	
19,000.00	9,755.00	18,784.46	9,575.00	181.87	181.75	-73.59	-9,867.29	-129.62	637.32	287.45	349.87	1.822 Collision Risk Procedures Req.	
19,100.00	9,755.00	18,884.46	9,575.00	183.68	183.57	-73.60	-9,967.29	-129.43	637.36	283.98	353.39	1.804 Collision Risk Procedures Req.	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional

Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Offset Design: SEC. 04-T23S-R28E - Goonch Fed Com 0409 234H - Wellbore #1 - Plan 0													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,200.00	9,755.00	18,984.46	9,575.00	185.49	185.39	-73.60	-10,067.29	-129.23	637.41	280.51	356.90	1.786	Collision Risk Procedures Req.		
19,300.00	9,755.00	19,084.46	9,575.00	187.30	187.21	-73.60	-10,167.29	-129.04	637.45	277.03	360.42	1.769	Collision Risk Procedures Req.		
19,400.00	9,755.00	19,184.46	9,575.00	189.12	189.03	-73.60	-10,267.29	-128.85	637.49	273.56	363.93	1.752	Collision Risk Procedures Req.		
19,500.00	9,755.00	19,284.46	9,575.00	190.93	190.85	-73.60	-10,367.29	-128.65	637.54	270.09	367.45	1.735	Collision Risk Procedures Req.		
19,600.00	9,755.00	19,384.46	9,575.00	192.75	192.67	-73.60	-10,467.29	-128.46	637.58	266.62	370.97	1.719	Collision Risk Procedures Req.		
19,700.00	9,755.00	19,484.46	9,575.00	194.56	194.49	-73.60	-10,567.29	-128.27	637.62	263.14	374.48	1.703	Collision Risk Procedures Req.		
19,800.00	9,755.00	19,584.46	9,575.00	196.38	196.31	-73.60	-10,667.29	-128.07	637.67	259.67	378.00	1.687	Collision Risk Procedures Req.		
19,900.00	9,755.00	19,684.46	9,575.00	198.19	198.13	-73.61	-10,767.28	-127.88	637.71	256.19	381.52	1.672	Collision Risk Procedures Req.		
20,000.00	9,755.00	19,784.46	9,575.00	200.01	199.95	-73.61	-10,867.28	-127.68	637.75	252.72	385.04	1.656	Collision Risk Procedures Req.		
20,100.00	9,755.00	19,884.46	9,575.00	201.82	201.77	-73.61	-10,967.28	-127.49	637.80	249.24	388.56	1.641	Collision Risk Procedures Req.		
20,100.39	9,755.00	19,884.85	9,575.00	201.83	201.78	-73.61	-10,967.68	-127.49	637.80	249.23	388.57	1.641	Collision Risk Procedures Req.		
20,133.98	9,755.00	19,916.15	9,575.00	202.44	202.35	-73.61	-10,998.98	-127.43	637.82	248.17	389.65	1.637	Collision Risk Procedures Req., SF		



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3063.50usft

Offset Depths are relative to Offset Datum

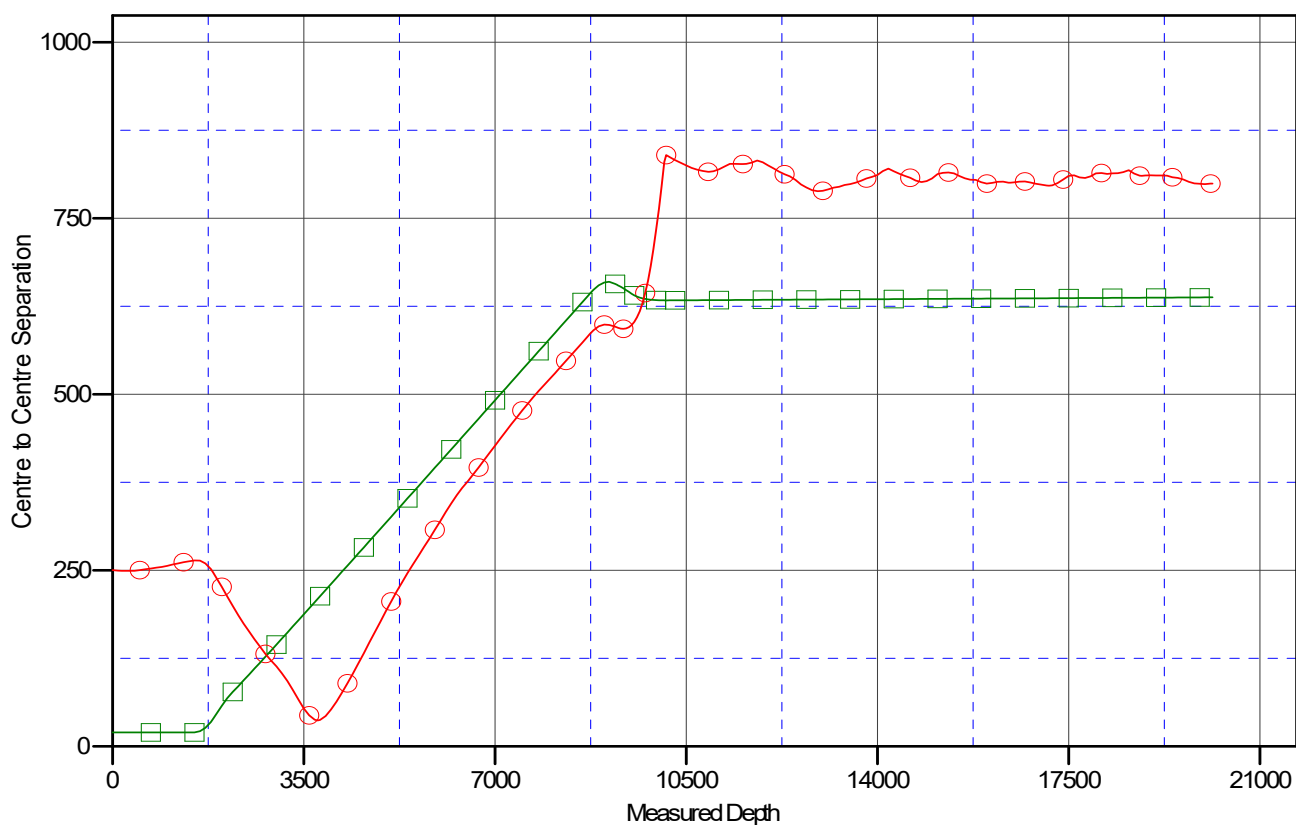
Central Meridian is -104.333334

Coordinates are relative to: Goonch Fed Com 0409 134H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.13°

Ladder Plot



LEGEND

Goonch Fed Com 0409 234H, Wellbore #1, Plan 0 V0
 Goonch Fed Com 0409 214H, Wellbore #1, Wellbore #1 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



SB Directional Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB @ 3063.50usft
Reference Site:	SEC. 04-T23S-R28E	MD Reference:	RKB @ 3063.50usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.16 Single User Db
Reference Design:	Plan 0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB @ 3063.50usft

Offset Depths are relative to Offset Datum

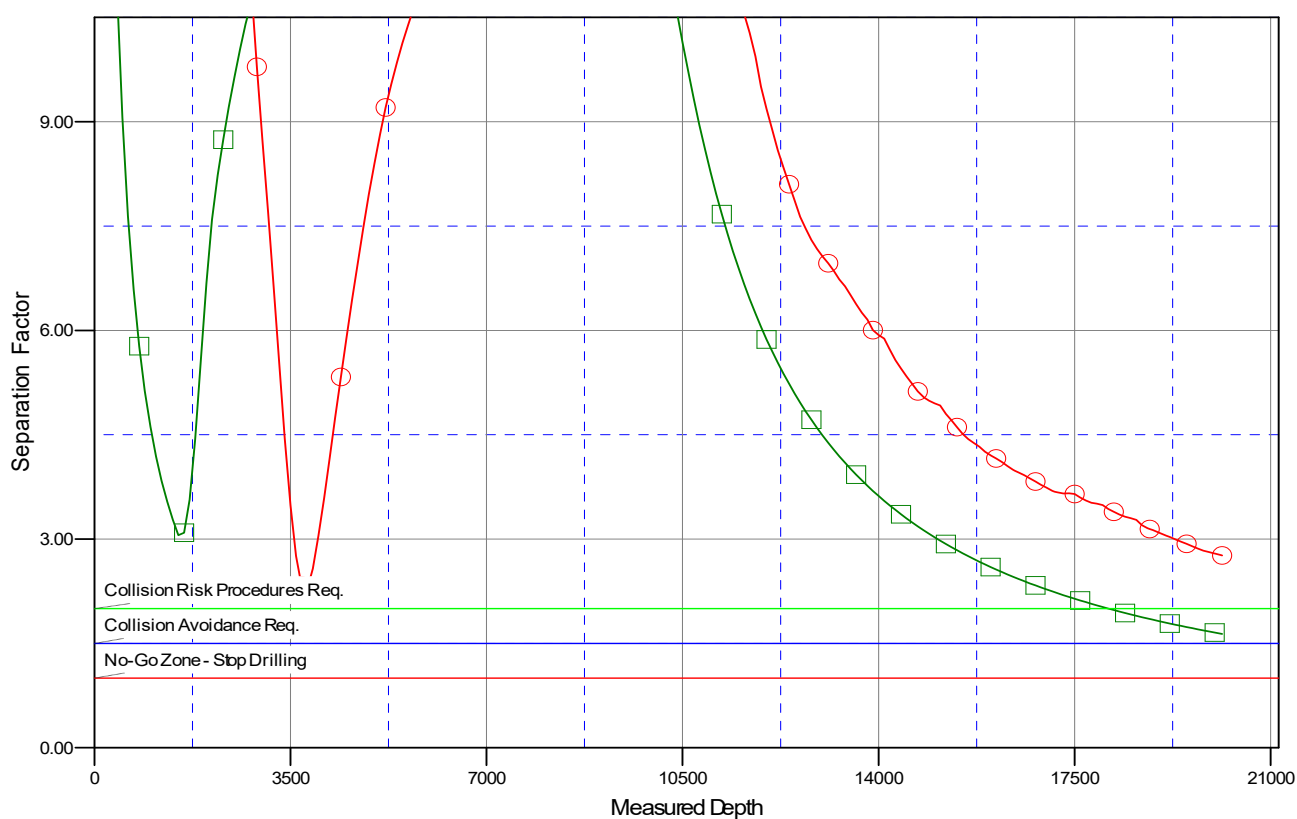
Central Meridian is -104.333334

Coordinates are relative to: Goonch Fed Com 0409 134H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.13°

Separation Factor Plot



LEGEND

■ Goonch Fed Com 0409 234H, Wellbore #1, Plan 0 V0
 ● Goonch Fed 0409 214H, Wellbore #1, Wellbore #1 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



NOVO Oil & Gas

EDDY CO., NM (NAD83)

SEC. 04-T23S-R28E

Goonch Fed Com 0409 134H

Wellbore #1

Plan: Plan 0

Standard Planning Report

02 March, 2021





SB Directional Planning Report



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Company:	NOVO Oil & Gas	TVD Reference:	RKB @ 3063.50usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB @ 3063.50usft
Site:	SEC. 04-T23S-R28E	North Reference:	Grid
Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 0		

Project	EDDY CO., NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		SEC. 04-T23S-R28E				
Site Position:		Northing:	487,875.76	usft	Latitude:	32.341014
From:	Map	Easting:	615,421.32	usft	Longitude:	-104.093453
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well	Goonch Fed Com 0409 134H					
Well Position	+N/-S	0.00 usft	Northing:	488,683.33 usft	Latitude:	32.343217
	+E/-W	0.00 usft	Easting:	618,135.91 usft	Longitude:	-104.084657
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,038.50 usft
Grid Convergence:		0.13 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2021/03/02	6.83	59.94	47,543.76904156

Design	Plan 0				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Plan Survey Tool Program	Date	2021/03/02			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,133.98 Plan 0 (Wellbore #1)	MWD		
			MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,844.46	6.89	240.39	1,843.63	-10.22	-17.98	2.00	2.00	0.00	240.39	
8,738.98	6.89	240.39	8,688.37	-418.78	-737.02	0.00	0.00	0.00	0.00	
9,083.44	0.00	0.00	9,032.00	-429.00	-755.00	2.00	-2.00	0.00	180.00	
9,233.48	0.00	0.00	9,182.04	-429.00	-755.00	0.00	0.00	0.00	0.00	
10,133.48	90.00	179.91	9,755.00	-1,001.96	-754.15	10.00	10.00	0.00	179.91	PBHL - Goonch Fed C
20,133.98	90.00	179.91	9,755.00	-11,002.45	-739.31	0.00	0.00	0.00	0.00	PBHL - Goonch Fed C



SB Directional Planning Report



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Company:	NOVO Oil & Gas	TVD Reference:	RKB @ 3063.50usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB @ 3063.50usft
Site:	SEC. 04-T23S-R28E	North Reference:	Grid
Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Nudge									
1,600.00	2.00	240.39	1,599.98	-0.86	-1.52	0.86	2.00	2.00	0.00
1,700.00	4.00	240.39	1,699.84	-3.45	-6.07	3.45	2.00	2.00	0.00
1,800.00	6.00	240.39	1,799.45	-7.75	-13.64	7.75	2.00	2.00	0.00
1,844.46	6.89	240.39	1,843.63	-10.22	-17.98	10.22	2.00	2.00	0.00
EOB									
1,900.00	6.89	240.39	1,898.77	-13.51	-23.78	13.51	0.00	0.00	0.00
2,000.00	6.89	240.39	1,998.05	-19.44	-34.20	19.44	0.00	0.00	0.00
2,100.00	6.89	240.39	2,097.33	-25.36	-44.63	25.36	0.00	0.00	0.00
2,200.00	6.89	240.39	2,196.60	-31.29	-55.06	31.29	0.00	0.00	0.00
2,300.00	6.89	240.39	2,295.88	-37.21	-65.49	37.21	0.00	0.00	0.00
2,400.00	6.89	240.39	2,395.16	-43.14	-75.92	43.14	0.00	0.00	0.00
2,500.00	6.89	240.39	2,494.44	-49.07	-86.35	49.07	0.00	0.00	0.00
2,600.00	6.89	240.39	2,593.72	-54.99	-96.78	54.99	0.00	0.00	0.00
2,700.00	6.89	240.39	2,692.99	-60.92	-107.21	60.92	0.00	0.00	0.00
2,800.00	6.89	240.39	2,792.27	-66.84	-117.64	66.84	0.00	0.00	0.00
2,900.00	6.89	240.39	2,891.55	-72.77	-128.07	72.77	0.00	0.00	0.00
3,000.00	6.89	240.39	2,990.83	-78.69	-138.50	78.69	0.00	0.00	0.00
3,100.00	6.89	240.39	3,090.11	-84.62	-148.92	84.62	0.00	0.00	0.00
3,200.00	6.89	240.39	3,189.38	-90.55	-159.35	90.55	0.00	0.00	0.00
3,300.00	6.89	240.39	3,288.66	-96.47	-169.78	96.47	0.00	0.00	0.00
3,400.00	6.89	240.39	3,387.94	-102.40	-180.21	102.40	0.00	0.00	0.00
3,500.00	6.89	240.39	3,487.22	-108.32	-190.64	108.32	0.00	0.00	0.00
3,600.00	6.89	240.39	3,586.50	-114.25	-201.07	114.25	0.00	0.00	0.00
3,700.00	6.89	240.39	3,685.77	-120.18	-211.50	120.18	0.00	0.00	0.00
3,800.00	6.89	240.39	3,785.05	-126.10	-221.93	126.10	0.00	0.00	0.00
3,900.00	6.89	240.39	3,884.33	-132.03	-232.36	132.03	0.00	0.00	0.00
4,000.00	6.89	240.39	3,983.61	-137.95	-242.79	137.95	0.00	0.00	0.00
4,100.00	6.89	240.39	4,082.89	-143.88	-253.21	143.88	0.00	0.00	0.00
4,200.00	6.89	240.39	4,182.16	-149.81	-263.64	149.81	0.00	0.00	0.00
4,300.00	6.89	240.39	4,281.44	-155.73	-274.07	155.73	0.00	0.00	0.00
4,400.00	6.89	240.39	4,380.72	-161.66	-284.50	161.66	0.00	0.00	0.00
4,500.00	6.89	240.39	4,480.00	-167.58	-294.93	167.58	0.00	0.00	0.00
4,600.00	6.89	240.39	4,579.28	-173.51	-305.36	173.51	0.00	0.00	0.00
4,700.00	6.89	240.39	4,678.55	-179.44	-315.79	179.44	0.00	0.00	0.00
4,800.00	6.89	240.39	4,777.83	-185.36	-326.22	185.36	0.00	0.00	0.00
4,900.00	6.89	240.39	4,877.11	-191.29	-336.65	191.29	0.00	0.00	0.00



SB Directional Planning Report

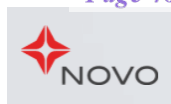


Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Company:	NOVO Oil & Gas	TVD Reference:	RKB @ 3063.50usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB @ 3063.50usft
Site:	SEC. 04-T23S-R28E	North Reference:	Grid
Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	6.89	240.39	4,976.39	-197.21	-347.08	197.21	0.00	0.00	0.00
5,100.00	6.89	240.39	5,075.67	-203.14	-357.51	203.14	0.00	0.00	0.00
5,200.00	6.89	240.39	5,174.94	-209.06	-367.93	209.06	0.00	0.00	0.00
5,300.00	6.89	240.39	5,274.22	-214.99	-378.36	214.99	0.00	0.00	0.00
5,400.00	6.89	240.39	5,373.50	-220.92	-388.79	220.92	0.00	0.00	0.00
5,500.00	6.89	240.39	5,472.78	-226.84	-399.22	226.84	0.00	0.00	0.00
5,600.00	6.89	240.39	5,572.06	-232.77	-409.65	232.77	0.00	0.00	0.00
5,700.00	6.89	240.39	5,671.33	-238.69	-420.08	238.69	0.00	0.00	0.00
5,800.00	6.89	240.39	5,770.61	-244.62	-430.51	244.62	0.00	0.00	0.00
5,900.00	6.89	240.39	5,869.89	-250.55	-440.94	250.55	0.00	0.00	0.00
6,000.00	6.89	240.39	5,969.17	-256.47	-451.37	256.47	0.00	0.00	0.00
6,100.00	6.89	240.39	6,068.45	-262.40	-461.80	262.40	0.00	0.00	0.00
6,200.00	6.89	240.39	6,167.72	-268.32	-472.23	268.32	0.00	0.00	0.00
6,300.00	6.89	240.39	6,267.00	-274.25	-482.65	274.25	0.00	0.00	0.00
6,400.00	6.89	240.39	6,366.28	-280.18	-493.08	280.18	0.00	0.00	0.00
6,500.00	6.89	240.39	6,465.56	-286.10	-503.51	286.10	0.00	0.00	0.00
6,600.00	6.89	240.39	6,564.84	-292.03	-513.94	292.03	0.00	0.00	0.00
6,700.00	6.89	240.39	6,664.11	-297.95	-524.37	297.95	0.00	0.00	0.00
6,800.00	6.89	240.39	6,763.39	-303.88	-534.80	303.88	0.00	0.00	0.00
6,900.00	6.89	240.39	6,862.67	-309.81	-545.23	309.81	0.00	0.00	0.00
7,000.00	6.89	240.39	6,961.95	-315.73	-555.66	315.73	0.00	0.00	0.00
7,100.00	6.89	240.39	7,061.22	-321.66	-566.09	321.66	0.00	0.00	0.00
7,200.00	6.89	240.39	7,160.50	-327.58	-576.52	327.58	0.00	0.00	0.00
7,300.00	6.89	240.39	7,259.78	-333.51	-586.94	333.51	0.00	0.00	0.00
7,400.00	6.89	240.39	7,359.06	-339.43	-597.37	339.43	0.00	0.00	0.00
7,500.00	6.89	240.39	7,458.34	-345.36	-607.80	345.36	0.00	0.00	0.00
7,600.00	6.89	240.39	7,557.61	-351.29	-618.23	351.29	0.00	0.00	0.00
7,700.00	6.89	240.39	7,656.89	-357.21	-628.66	357.21	0.00	0.00	0.00
7,800.00	6.89	240.39	7,756.17	-363.14	-639.09	363.14	0.00	0.00	0.00
7,900.00	6.89	240.39	7,855.45	-369.06	-649.52	369.06	0.00	0.00	0.00
8,000.00	6.89	240.39	7,954.73	-374.99	-659.95	374.99	0.00	0.00	0.00
8,100.00	6.89	240.39	8,054.00	-380.92	-670.38	380.92	0.00	0.00	0.00
8,200.00	6.89	240.39	8,153.28	-386.84	-680.81	386.84	0.00	0.00	0.00
8,300.00	6.89	240.39	8,252.56	-392.77	-691.24	392.77	0.00	0.00	0.00
8,400.00	6.89	240.39	8,351.84	-398.69	-701.66	398.69	0.00	0.00	0.00
8,500.00	6.89	240.39	8,451.12	-404.62	-712.09	404.62	0.00	0.00	0.00
8,600.00	6.89	240.39	8,550.39	-410.55	-722.52	410.55	0.00	0.00	0.00
8,700.00	6.89	240.39	8,649.67	-416.47	-732.95	416.47	0.00	0.00	0.00
8,738.98	6.89	240.39	8,688.37	-418.78	-737.02	418.78	0.00	0.00	0.00
EOH									
8,800.00	5.67	240.39	8,749.02	-422.08	-742.82	422.08	2.00	-2.00	0.00
8,900.00	3.67	240.39	8,848.69	-426.10	-749.90	426.10	2.00	-2.00	0.00
9,000.00	1.67	240.39	8,948.57	-428.40	-753.94	428.40	2.00	-2.00	0.00
9,083.44	0.00	0.00	9,032.00	-429.00	-755.00	429.00	2.00	-2.00	0.00
Drop to Vertical									
9,100.00	0.00	0.00	9,048.56	-429.00	-755.00	429.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,148.56	-429.00	-755.00	429.00	0.00	0.00	0.00
9,233.48	0.00	0.00	9,182.04	-429.00	-755.00	429.00	0.00	0.00	0.00
KOP @ 9182' TVD									
9,300.00	6.65	179.91	9,248.41	-432.86	-754.99	432.86	10.00	10.00	0.00
9,400.00	16.65	179.91	9,346.23	-453.03	-754.96	453.03	10.00	10.00	0.00
9,500.00	26.65	179.91	9,439.05	-489.88	-754.91	489.88	10.00	10.00	0.00
9,600.00	36.65	179.91	9,524.07	-542.29	-754.83	542.29	10.00	10.00	0.00



SB Directional Planning Report



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Company:	NOVO Oil & Gas	TVD Reference:	RKB @ 3063.50usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB @ 3063.50usft
Site:	SEC. 04-T23S-R28E	North Reference:	Grid
Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.00	46.65	179.91	9,598.70	-608.66	-754.73	608.66	10.00	10.00	0.00
9,800.00	56.65	179.91	9,660.66	-686.99	-754.62	686.99	10.00	10.00	0.00
9,900.00	66.65	179.91	9,708.08	-774.89	-754.49	774.89	10.00	10.00	0.00
10,000.00	76.65	179.91	9,739.52	-869.68	-754.35	869.68	10.00	10.00	0.00
10,100.00	86.65	179.91	9,754.02	-968.50	-754.20	968.50	10.00	10.00	0.00
10,133.48	90.00	179.91	9,755.00	-1,001.96	-754.15	1,001.96	10.00	10.00	0.00
LP @ 9755' TVD									
10,200.00	90.00	179.91	9,755.00	-1,068.48	-754.05	1,068.48	0.00	0.00	0.00
10,300.00	90.00	179.91	9,755.00	-1,168.48	-753.90	1,168.48	0.00	0.00	0.00
10,400.00	90.00	179.91	9,755.00	-1,268.48	-753.75	1,268.48	0.00	0.00	0.00
10,500.00	90.00	179.91	9,755.00	-1,368.48	-753.61	1,368.48	0.00	0.00	0.00
10,600.00	90.00	179.91	9,755.00	-1,468.48	-753.46	1,468.48	0.00	0.00	0.00
10,700.00	90.00	179.91	9,755.00	-1,568.48	-753.31	1,568.48	0.00	0.00	0.00
10,800.00	90.00	179.91	9,755.00	-1,668.48	-753.16	1,668.48	0.00	0.00	0.00
10,900.00	90.00	179.91	9,755.00	-1,768.48	-753.01	1,768.48	0.00	0.00	0.00
11,000.00	90.00	179.91	9,755.00	-1,868.48	-752.86	1,868.48	0.00	0.00	0.00
11,100.00	90.00	179.91	9,755.00	-1,968.48	-752.72	1,968.48	0.00	0.00	0.00
11,200.00	90.00	179.91	9,755.00	-2,068.48	-752.57	2,068.48	0.00	0.00	0.00
11,300.00	90.00	179.91	9,755.00	-2,168.48	-752.42	2,168.48	0.00	0.00	0.00
11,400.00	90.00	179.91	9,755.00	-2,268.48	-752.27	2,268.48	0.00	0.00	0.00
11,500.00	90.00	179.91	9,755.00	-2,368.48	-752.12	2,368.48	0.00	0.00	0.00
11,600.00	90.00	179.91	9,755.00	-2,468.48	-751.97	2,468.48	0.00	0.00	0.00
11,700.00	90.00	179.91	9,755.00	-2,568.48	-751.83	2,568.48	0.00	0.00	0.00
11,800.00	90.00	179.91	9,755.00	-2,668.48	-751.68	2,668.48	0.00	0.00	0.00
11,900.00	90.00	179.91	9,755.00	-2,768.48	-751.53	2,768.48	0.00	0.00	0.00
12,000.00	90.00	179.91	9,755.00	-2,868.48	-751.38	2,868.48	0.00	0.00	0.00
12,100.00	90.00	179.91	9,755.00	-2,968.48	-751.23	2,968.48	0.00	0.00	0.00
12,200.00	90.00	179.91	9,755.00	-3,068.48	-751.08	3,068.48	0.00	0.00	0.00
12,300.00	90.00	179.91	9,755.00	-3,168.48	-750.93	3,168.48	0.00	0.00	0.00
12,400.00	90.00	179.91	9,755.00	-3,268.48	-750.79	3,268.48	0.00	0.00	0.00
12,500.00	90.00	179.91	9,755.00	-3,368.48	-750.64	3,368.48	0.00	0.00	0.00
12,600.00	90.00	179.91	9,755.00	-3,468.48	-750.49	3,468.48	0.00	0.00	0.00
12,700.00	90.00	179.91	9,755.00	-3,568.48	-750.34	3,568.48	0.00	0.00	0.00
12,800.00	90.00	179.91	9,755.00	-3,668.48	-750.19	3,668.48	0.00	0.00	0.00
12,900.00	90.00	179.91	9,755.00	-3,768.48	-750.04	3,768.48	0.00	0.00	0.00
13,000.00	90.00	179.91	9,755.00	-3,868.48	-749.90	3,868.48	0.00	0.00	0.00
13,100.00	90.00	179.91	9,755.00	-3,968.48	-749.75	3,968.48	0.00	0.00	0.00
13,200.00	90.00	179.91	9,755.00	-4,068.48	-749.60	4,068.48	0.00	0.00	0.00
13,300.00	90.00	179.91	9,755.00	-4,168.48	-749.45	4,168.48	0.00	0.00	0.00
13,400.00	90.00	179.91	9,755.00	-4,268.48	-749.30	4,268.48	0.00	0.00	0.00
13,500.00	90.00	179.91	9,755.00	-4,368.48	-749.15	4,368.48	0.00	0.00	0.00
13,600.00	90.00	179.91	9,755.00	-4,468.48	-749.01	4,468.48	0.00	0.00	0.00
13,700.00	90.00	179.91	9,755.00	-4,568.48	-748.86	4,568.48	0.00	0.00	0.00
13,800.00	90.00	179.91	9,755.00	-4,668.47	-748.71	4,668.47	0.00	0.00	0.00
13,900.00	90.00	179.91	9,755.00	-4,768.47	-748.56	4,768.47	0.00	0.00	0.00
14,000.00	90.00	179.91	9,755.00	-4,868.47	-748.41	4,868.47	0.00	0.00	0.00
14,100.00	90.00	179.91	9,755.00	-4,968.47	-748.26	4,968.47	0.00	0.00	0.00
14,200.00	90.00	179.91	9,755.00	-5,068.47	-748.12	5,068.47	0.00	0.00	0.00
14,300.00	90.00	179.91	9,755.00	-5,168.47	-747.97	5,168.47	0.00	0.00	0.00
14,400.00	90.00	179.91	9,755.00	-5,268.47	-747.82	5,268.47	0.00	0.00	0.00
14,500.00	90.00	179.91	9,755.00	-5,368.47	-747.67	5,368.47	0.00	0.00	0.00
14,600.00	90.00	179.91	9,755.00	-5,468.47	-747.52	5,468.47	0.00	0.00	0.00
14,700.00	90.00	179.91	9,755.00	-5,568.47	-747.37	5,568.47	0.00	0.00	0.00
14,800.00	90.00	179.91	9,755.00	-5,668.47	-747.23	5,668.47	0.00	0.00	0.00



SB Directional

Planning Report



Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Company:	NOVO Oil & Gas	TVD Reference:	RKB @ 3063.50usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB @ 3063.50usft
Site:	SEC. 04-T23S-R28E	North Reference:	Grid
Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,900.00	90.00	179.91	9,755.00	-5,768.47	-747.08	5,768.47	0.00	0.00	0.00
15,000.00	90.00	179.91	9,755.00	-5,868.47	-746.93	5,868.47	0.00	0.00	0.00
15,100.00	90.00	179.91	9,755.00	-5,968.47	-746.78	5,968.47	0.00	0.00	0.00
15,200.00	90.00	179.91	9,755.00	-6,068.47	-746.63	6,068.47	0.00	0.00	0.00
15,300.00	90.00	179.91	9,755.00	-6,168.47	-746.48	6,168.47	0.00	0.00	0.00
15,400.00	90.00	179.91	9,755.00	-6,268.47	-746.33	6,268.47	0.00	0.00	0.00
15,500.00	90.00	179.91	9,755.00	-6,368.47	-746.19	6,368.47	0.00	0.00	0.00
15,600.00	90.00	179.91	9,755.00	-6,468.47	-746.04	6,468.47	0.00	0.00	0.00
15,700.00	90.00	179.91	9,755.00	-6,568.47	-745.89	6,568.47	0.00	0.00	0.00
15,800.00	90.00	179.91	9,755.00	-6,668.47	-745.74	6,668.47	0.00	0.00	0.00
15,900.00	90.00	179.91	9,755.00	-6,768.47	-745.59	6,768.47	0.00	0.00	0.00
16,000.00	90.00	179.91	9,755.00	-6,868.47	-745.44	6,868.47	0.00	0.00	0.00
16,100.00	90.00	179.91	9,755.00	-6,968.47	-745.30	6,968.47	0.00	0.00	0.00
16,200.00	90.00	179.91	9,755.00	-7,068.47	-745.15	7,068.47	0.00	0.00	0.00
16,300.00	90.00	179.91	9,755.00	-7,168.47	-745.00	7,168.47	0.00	0.00	0.00
16,400.00	90.00	179.91	9,755.00	-7,268.47	-744.85	7,268.47	0.00	0.00	0.00
16,500.00	90.00	179.91	9,755.00	-7,368.47	-744.70	7,368.47	0.00	0.00	0.00
16,600.00	90.00	179.91	9,755.00	-7,468.47	-744.55	7,468.47	0.00	0.00	0.00
16,700.00	90.00	179.91	9,755.00	-7,568.47	-744.41	7,568.47	0.00	0.00	0.00
16,800.00	90.00	179.91	9,755.00	-7,668.47	-744.26	7,668.47	0.00	0.00	0.00
16,900.00	90.00	179.91	9,755.00	-7,768.47	-744.11	7,768.47	0.00	0.00	0.00
17,000.00	90.00	179.91	9,755.00	-7,868.47	-743.96	7,868.47	0.00	0.00	0.00
17,100.00	90.00	179.91	9,755.00	-7,968.47	-743.81	7,968.47	0.00	0.00	0.00
17,200.00	90.00	179.91	9,755.00	-8,068.47	-743.66	8,068.47	0.00	0.00	0.00
17,300.00	90.00	179.91	9,755.00	-8,168.47	-743.52	8,168.47	0.00	0.00	0.00
17,400.00	90.00	179.91	9,755.00	-8,268.47	-743.37	8,268.47	0.00	0.00	0.00
17,500.00	90.00	179.91	9,755.00	-8,368.47	-743.22	8,368.47	0.00	0.00	0.00
17,600.00	90.00	179.91	9,755.00	-8,468.47	-743.07	8,468.47	0.00	0.00	0.00
17,700.00	90.00	179.91	9,755.00	-8,568.47	-742.92	8,568.47	0.00	0.00	0.00
17,800.00	90.00	179.91	9,755.00	-8,668.47	-742.77	8,668.47	0.00	0.00	0.00
17,900.00	90.00	179.91	9,755.00	-8,768.47	-742.63	8,768.47	0.00	0.00	0.00
18,000.00	90.00	179.91	9,755.00	-8,868.47	-742.48	8,868.47	0.00	0.00	0.00
18,100.00	90.00	179.91	9,755.00	-8,968.47	-742.33	8,968.47	0.00	0.00	0.00
18,200.00	90.00	179.91	9,755.00	-9,068.47	-742.18	9,068.47	0.00	0.00	0.00
18,300.00	90.00	179.91	9,755.00	-9,168.47	-742.03	9,168.47	0.00	0.00	0.00
18,400.00	90.00	179.91	9,755.00	-9,268.47	-741.88	9,268.47	0.00	0.00	0.00
18,500.00	90.00	179.91	9,755.00	-9,368.47	-741.73	9,368.47	0.00	0.00	0.00
18,600.00	90.00	179.91	9,755.00	-9,468.47	-741.59	9,468.47	0.00	0.00	0.00
18,700.00	90.00	179.91	9,755.00	-9,568.47	-741.44	9,568.47	0.00	0.00	0.00
18,800.00	90.00	179.91	9,755.00	-9,668.47	-741.29	9,668.47	0.00	0.00	0.00
18,900.00	90.00	179.91	9,755.00	-9,768.47	-741.14	9,768.47	0.00	0.00	0.00
19,000.00	90.00	179.91	9,755.00	-9,868.47	-740.99	9,868.47	0.00	0.00	0.00
19,100.00	90.00	179.91	9,755.00	-9,968.47	-740.84	9,968.47	0.00	0.00	0.00
19,200.00	90.00	179.91	9,755.00	-10,068.47	-740.70	10,068.47	0.00	0.00	0.00
19,300.00	90.00	179.91	9,755.00	-10,168.47	-740.55	10,168.47	0.00	0.00	0.00
19,400.00	90.00	179.91	9,755.00	-10,268.47	-740.40	10,268.47	0.00	0.00	0.00
19,500.00	90.00	179.91	9,755.00	-10,368.47	-740.25	10,368.47	0.00	0.00	0.00
19,600.00	90.00	179.91	9,755.00	-10,468.47	-740.10	10,468.47	0.00	0.00	0.00
19,700.00	90.00	179.91	9,755.00	-10,568.47	-739.95	10,568.47	0.00	0.00	0.00
19,800.00	90.00	179.91	9,755.00	-10,668.47	-739.81	10,668.47	0.00	0.00	0.00
19,900.00	90.00	179.91	9,755.00	-10,768.47	-739.66	10,768.47	0.00	0.00	0.00
20,000.00	90.00	179.91	9,755.00	-10,868.47	-739.51	10,868.47	0.00	0.00	0.00
20,100.00	90.00	179.91	9,755.00	-10,968.47	-739.36	10,968.47	0.00	0.00	0.00
20,133.97	90.00	179.91	9,755.00	-11,002.44	-739.31	11,002.44	0.00	0.00	0.00


SB Directional
 Planning Report


Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well Goonch Fed Com 0409 134H
Company:	NOVO Oil & Gas	TVD Reference:	RKB @ 3063.50usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB @ 3063.50usft
Site:	SEC. 04-T23S-R28E	North Reference:	Grid
Well:	Goonch Fed Com 0409 134H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
PBHL; 130' FSL, 990' FEL									
20,133.98	90.00	179.91	9,755.00	-11,002.45	-739.31	11,002.45	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - Goonch Fed 04C	0.00	0.00	0.00	-11,002.45	-739.31	477,680.88	617,396.60	32.312977	-104.087133
- plan misses target center by 9755.00usft at 20133.98usft MD (9755.00 TVD, -11002.45 N, -739.31 E)									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
20,137.87		20" Casing	20	24	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.00	1,500.00	0.00	0.00	Start Nudge	
1,844.46	1,843.63	-10.22	-17.98	EOB	
8,738.98	8,688.37	-418.78	-737.02	EOH	
9,083.44	9,032.00	-429.00	-755.00	Drop to Vertical	
9,233.48	9,182.04	-429.00	-755.00	KOP @ 9182' TVD	
10,133.48	9,755.00	-1,001.96	-754.15	LP @ 9755' TVD	
20,133.97	9,755.00	-11,002.44	-739.31	PBHL; 130' FSL, 990' FEL	

District I
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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 27986

COMMENTS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 27986
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/17/2021	5/17/2021

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	5/17/2021