

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM0542015**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator **NOVO OIL AND GAS NORTHERN DELAWARE LLC**3a. Address **1001 West Wilshire Boulevard Suite 206, Oklahoma** 3b. Phone No. (include area code)
(405) 404-04144. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 14/T23S/R28E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **OVATION FED COM 1318/241H**9. API Well No. **3001549104**10. Field and Pool or Exploratory Area
PURPLE SAGE WOLFCAMP/Wolfcamp11. Country or Parish, State
EDDY/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Request to change the Bottom Home Location to 330 FNL & 10 FEL, Section 13, T-23-S, R-28-E, NENE, from 330 FNL & 10 FEL, Section 18, T-23-S, R-29-E, NENE, Eddy County, NM. See attached for detailed changes to casing depth, cement, and mud program.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
JUSTIN CARTER / Ph: (405) 286-3375

Title **Landman**

Signature

Date

01/06/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title **Petroleum Engineer**

Date **02/01/2022**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **CARLSBAD**

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.

(Instructions on page 2)

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 30-015-49104	² Pool Code 15011	³ Pool Name Culebra Bluff; Bone Spring, South
⁴ Property Code	⁵ Property Name OVATION FED COM 1318	⁶ Well Number 241H
⁷ OGRID No. 372920	⁸ Operator Name NOVO OIL & GAS NORTHERN DELAWARE, LLC	⁹ Elevation 2982.0

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	23 S	28 E		727	NORTH	405	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	13	23 S	28 E		330	NORTH	10	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

LAST TAKE POINT 330' FNL, 100' FEL LAT. = 32.3119278°N LONG. = 104.0323916°W NMSP EAST (FT) N = 477342.22 E = 634308.81				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> 11.30.2021 Signature Date Justin Carter Printed Name jcarter@novoog.com E-mail Address			
NW CORNER SEC. 14 LAT. = 32.3129659°N LONG. = 104.0667541°W NMSP EAST (FT) N = 477691.75 E = 623692.10 NE CORNER SEC. 14 LAT. = 32.3128603°N LONG. = 104.0495146°W NMSP EAST (FT) N = 477667.00 E = 629018.02 N/4 CORNER SEC. 13 LAT. = 32.3128484°N LONG. = 104.0407816°W NMSP EAST (FT) N = 477669.94 E = 631715.93 NE CORNER SEC. 13 LAT. = 32.3128341°N LONG. = 104.0320645°W NMSP EAST (FT) N = 477672.21 E = 634408.96				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. NOVEMBER 29, 2021 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor: Certificate Number: 12797 PROFESSIONAL SURVEYOR NO. 8357C			
S89°55'24"E 2632.05 FT S89°53'24"E 2642.18 FT S89°56'15"E 2698.51 FT S89°57'06"E 2693.62 FT N/4 CORNER SEC. 14 LAT. = 32.3128652°N LONG. = 104.0580653°W NMSP EAST (FT) N = 477661.93 E = 626376.43 W/4 CORNER SEC. 14 LAT. = 32.3055209°N LONG. = 104.0666597°W NMSP EAST (FT) N = 474983.43 E = 623728.00 S/4 CORNER SEC. 14 LAT. = 32.2982523°N LONG. = 104.0582005°W NMSP EAST (FT) N = 472345.82 E = 626348.32 SW CORNER SEC. 14 LAT. = 32.2982153°N LONG. = 104.0666772°W NMSP EAST (FT) N = 472325.75 E = 623729.17 SE CORNER SEC. 14 LAT. = 32.2982716°N LONG. = 104.0496657°W NMSP EAST (FT) N = 472359.69 E = 628985.39 W/4 CORNER SEC. 13 LAT. = 32.3055567°N LONG. = 104.0495896°W NMSP EAST (FT) N = 475013.26 E = 629001.88 E/4 CORNER SEC. 13 LAT. = 32.3055187°N LONG. = 104.0320934°W NMSP EAST (FT) N = 475010.92 E = 634407.49 FIRST TAKE POINT 330' FNL, 100' FWL LAT. = 32.3119273°N LONG. = 104.0492003°W NMSP EAST (FT) N = 477337.19 E = 629115.99 BOTTOM OF HOLE LAT. = 32.3119273°N LONG. = 104.0321004°W NMSP EAST (FT) N = 477342.27 E = 634398.79 GRID BNG. = N89°56'41"E HORIZ. DIST. = 5283.95 FT SHL 727' 405' FTP 10' BHL 330'							

Intent ☐ As Drilled ☐

API #		
Operator Name: NOVO OIL & GAS NORTHERN DELAWARE,LLC	Property Name: OVATION FED COM 1318	Well Number 241H

Kick Off Point (KOP)

UL A	Section 14	Township 23S	Range 28E	Lot	Feet 727	From N/S NORTH	Feet 405	From E/W EAST	County EDDY
Latitude 32.3108643					Longitude 104.0508453				NAD 83

First Take Point (FTP)

UL D	Section 13	Township 23S	Range 28E	Lot	Feet 330	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.3119529					Longitude 104.0492003				NAD 83

Last Take Point (LTP)

UL A	Section 13	Township 23S	Range 28E	Lot	Feet 330	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.3119278					Longitude 104.0323916				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

NOVO OIL & GAS NORTHERN DELAWARE, LLC
Ovation Fed Com 1318 241H
 SHL: 727' FNL & 405' FEL' of Section 14-23S-28E
 BHL: 330' FNL & 10' FEL Section 13-23S-28E
Eddy County, New Mexico



Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD KB	MD'	Bearing
Quaternary	0	-	Water
Rustler anhydrite (surface csg @ 410' MD)	330	330	N/A
Salado salt	564	574	N/A
Lamar limestone	2725	2,745	N/A
Bell Canyon sandstone	2765	2,795	Hydrocarbons
Cherry Canyon sandstone	3792	3,832	Hydrocarbons
Brushy Canyon sandstone	5245	5,295	Hydrocarbons
Bone Spring limestone	6315	6,375	Hydrocarbons
Avalon shale	6995	7,065	Hydrocarbons
1st Bone Spring sandstone	7315	7,395	Hydrocarbons
2nd Bone Spring carbonate	7665	7,755	Hydrocarbons
2nd Bone Spring sandstone	8120	8,220	Hydrocarbons
3rd Bone Spring carbonate	8600	8,710	Hydrocarbons
Wolfcamp XY	9650	9,770	Hydrocarbons
Wolfcamp A	9820	9,950	Hydrocarbons
Wolfcamp B	10080	10,220	Hydrocarbons
Wolfcamp B Flow Unit	10350	10,500	Hydrocarbons
Wolfcamp C	10625	10,625	Hydrocarbons
Intermediate Casing Point	3,325	3,445	
KOP	7,891	8,021	
TD	8,491	13,973	

2. NOTABLE ZONES

3. PRESSURE CONTROL

A 13.625" 5M Blowout Preventer system will be installed on a multi-bowl (speed head) wellhead with a 13.625" flanged casing spool.

Top flange of casing spool will be set in a cellar below ground level. BOP system will consist of a single pipe ram on the bottom, mud cross, double pipe ram with blind rams on bottom and pipe rams on top, and annular preventer. Blowout preventer will be installed on top of the 13.375" surface casing and will remain installed to TD of the well. Wellhead, blowout preventer, and choke manifold diagram are included.

Variance is requested to use a co-flex hose between the BOP system and choke manifold. A typical co-flex pressure test certificate is attached. An equipment specific co-flex pressure test certificate will be on site when testing the BOP.

All casing strings will be tested in accordance with Onshore Order 2 III.B.1.h.

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 731.5 psi) high for 30 minutes

NOVO OIL & GAS NORTHERN DELAWARE, LLC
Ovation Fed Com 1318 241H
 SHL: 727' FNL & 405' FEL' of Section 14-23S-28E
 BHL: 330' FNL & 10' FEL Section 13-23S-28E
Eddy County, New Mexico



4. CASING & CEMENT

Variance is requested for an option to use a surface rig to drill the surface hole, set the surface casing, and cement the surface casing. If the schedule between rigs would preclude presetting the surface casing, then the primary rig will MIRU and drill all of the well.

All casing will be API and new. See attached casing assumption worksheet.

Casing Details

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	BTM MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	410	0	410	J-55	54.5	BTC	1.125	1.125	1.6
Intermediate	9 7/8	8 5/8	API	No	0	3,475	0	3,325	P-110 HP	32	Talon HTQ	1.125	1.125	1.6
Production	7 7/8	5 1/2	API	No	0	13,973	0	8,491	P-110 EC	20	DWC/C- IS +	1.125	1.125	1.6

Alternate grades and/or higher weights could be substituted to meet maximum stimulation pressures or due to coupling availability.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	BTM MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Intermediate	9 7/8	8 5/8	API	No	0	3,475	0	3325	P-110 HP	32	TLW	1.125	1.125	1.6
Production	7 7/8	5 1/2	API	No	0	13,973	0	8491	P-110 EC	17	DWC/C- IS +	1.125	1.125	1.6

Cement Details

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	352	1.62	569.7	13.8	100%	C	Gel, Accelerator, LCM
Intermediate	Lead	0	205	3.58	735.5	10	100%	C or H	Fluid Loss, Retarder, LCM, Possibly beads
	Tail	2325	130	1.39	180.7	13.8	50%	C or H	Fluid Loss, Retarder, LCM
Production	Lead	0	132	2.12	278.9	12	20%	H	Fluid Loss, Retarder, LCM
	Tail	1325	1875	1.59	2980.7	13.2	20%	H	Fluid Loss, Retarder, LCM

5. MUD PROGRAM

An electronic PVT mud system will monitor flow rate, pump pressure, stroke rate, and volume. All necessary mud products (barite, bentonite, LCM) to control weight and fluid loss will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	410'	Water Based Spud Mud	8.30	30-60	NC
Intermediate	410	3325	Brine Diesel Emulsion	8.8 -9.6	35-45	NC
Production	3325	13973	Oil Based Mud	8.9 - 9.8	35-65	4-6

6. CORES, TEST, & LOGS

No core or drill stem test is planned. A 2-person mud logging program will be used from ≈3000' to TD. GR log will be acquired by MWD tools from the intermediate casing to TD.

7. DOWN HOLE CONDITIONS

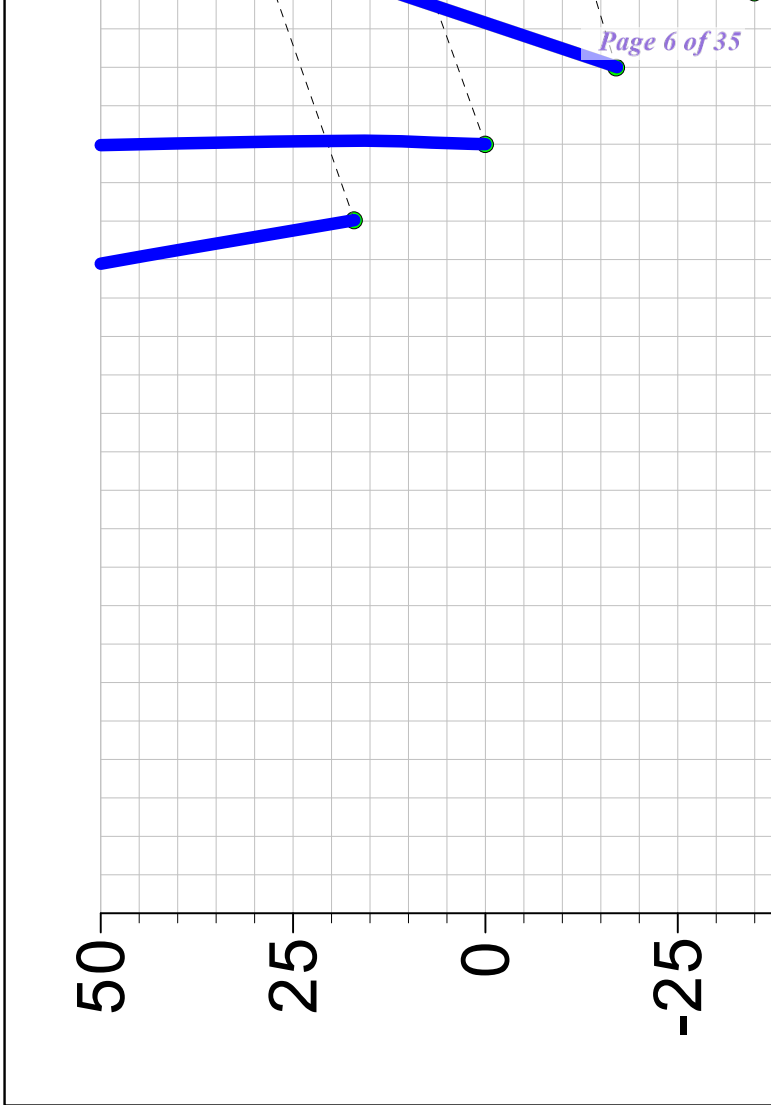
No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is ≈3651.13 psi. Anticipated bottom hole pressure is ≈5519.15 psi. Expected bottom hole temperature is ≈215 deg F.

An H2S plan is attached.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈3 months to drill and complete the well.

Over





NOVO Oil & Gas

EDDY CO., NM (NAD83)

Sec 14-T23S-28E

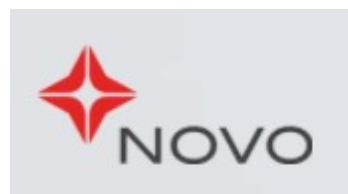
Ovation Fed Com 1318 241H

Wellbore #1

Plan: Plan 4

Standard Planning Report

06 December, 2021





Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site:	Sec 14-T23S-28E	North Reference:	Grid
Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 4		

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 14-T23S-28E			
Site Position:		Northing:	476,886.86 usft	Latitude:	32.31071853
From:	Map	Easting:	628,638.52 usft	Longitude:	-104.05074967
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well	Ovation Fed Com 1318 241H					
Well Position	+N/-S	0.00 usft	Northing:	476,939.82 usft	Latitude:	32.31086432
	+E/-W	0.00 usft	Easting:	628,608.83 usft	Longitude:	-104.05084532
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	2,982.00 usft
Grid Convergence:		0.15 °				

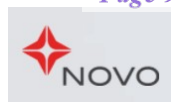
Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/23/2021	6.72	59.89	47,452.85232653

Design	Plan 4				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.00	

Plan Survey Tool Program	Date	12/6/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	13,973.22	Plan 4 (Wellbore #1)	MWD+IGRF	
				OWSG MWD + IGRF or WMM	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site:	Sec 14-T23S-28E	North Reference:	Grid
Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 4		

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	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,850.00	5.00	2.00	1,849.68	10.89	0.38	2.00	2.00	0.00	2.00	
1,974.75	7.47	358.89	1,973.69	24.44	0.41	2.00	1.98	-2.49	-9.31	
3,945.21	7.47	358.89	3,927.40	280.67	-4.53	0.00	0.00	0.00	0.00	
4,318.86	0.00	0.00	4,300.00	305.00	-5.00	2.00	-2.00	0.00	180.00	
7,845.99	0.00	0.00	7,827.13	305.00	-5.00	0.00	0.00	0.00	0.00	
8,735.99	89.00	83.00	8,400.00	373.61	553.76	10.00	10.00	0.00	83.00	
9,081.55	89.00	89.91	8,406.02	394.95	898.40	2.00	0.00	2.00	90.02	
13,973.85	89.00	89.91	8,491.00	402.45	5,789.96	0.00	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
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Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site:	Sec 14-T23S-28E	North Reference:	Grid
Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 4		

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
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	2.00	2.00	1,699.98	1.74	0.06	0.06	2.00	2.00	0.00
1,800.00	4.00	2.00	1,799.84	6.97	0.24	0.24	2.00	2.00	0.00
1,850.00	5.00	2.00	1,849.68	10.89	0.38	0.38	2.00	2.00	0.00
1,900.00	5.99	0.45	1,899.45	15.68	0.48	0.48	2.00	1.98	-3.10
1,974.75	7.47	358.89	1,973.69	24.44	0.41	0.41	2.00	1.99	-2.08
2,000.00	7.47	358.89	1,998.72	27.72	0.35	0.35	0.00	0.00	0.00
2,100.00	7.47	358.89	2,097.87	40.73	0.10	0.10	0.00	0.00	0.00
2,200.00	7.47	358.89	2,197.02	53.73	-0.15	-0.15	0.00	0.00	0.00
2,300.00	7.47	358.89	2,296.17	66.74	-0.40	-0.40	0.00	0.00	0.00
2,400.00	7.47	358.89	2,395.32	79.74	-0.65	-0.65	0.00	0.00	0.00
2,500.00	7.47	358.89	2,494.47	92.74	-0.90	-0.90	0.00	0.00	0.00
2,600.00	7.47	358.89	2,593.62	105.75	-1.16	-1.16	0.00	0.00	0.00
2,700.00	7.47	358.89	2,692.78	118.75	-1.41	-1.41	0.00	0.00	0.00
2,800.00	7.47	358.89	2,791.93	131.75	-1.66	-1.66	0.00	0.00	0.00
2,900.00	7.47	358.89	2,891.08	144.76	-1.91	-1.91	0.00	0.00	0.00
3,000.00	7.47	358.89	2,990.23	157.76	-2.16	-2.16	0.00	0.00	0.00
3,100.00	7.47	358.89	3,089.38	170.76	-2.41	-2.41	0.00	0.00	0.00
3,200.00	7.47	358.89	3,188.53	183.77	-2.66	-2.66	0.00	0.00	0.00
3,300.00	7.47	358.89	3,287.68	196.77	-2.91	-2.91	0.00	0.00	0.00
3,400.00	7.47	358.89	3,386.83	209.77	-3.16	-3.16	0.00	0.00	0.00
3,500.00	7.47	358.89	3,485.98	222.78	-3.41	-3.41	0.00	0.00	0.00
3,600.00	7.47	358.89	3,585.13	235.78	-3.66	-3.66	0.00	0.00	0.00
3,700.00	7.47	358.89	3,684.28	248.79	-3.92	-3.92	0.00	0.00	0.00
3,800.00	7.47	358.89	3,783.43	261.79	-4.17	-4.17	0.00	0.00	0.00
3,900.00	7.47	358.89	3,882.58	274.79	-4.42	-4.42	0.00	0.00	0.00
3,945.21	7.47	358.89	3,927.40	280.67	-4.53	-4.53	0.00	0.00	0.00
4,000.00	6.38	358.89	3,981.80	287.28	-4.66	-4.66	2.00	-2.00	0.00
4,100.00	4.38	358.89	4,081.35	296.65	-4.84	-4.84	2.00	-2.00	0.00
4,200.00	2.38	358.89	4,181.17	302.54	-4.95	-4.95	2.00	-2.00	0.00
4,300.00	0.38	358.89	4,281.14	304.94	-5.00	-5.00	2.00	-2.00	0.00
4,318.86	0.00	0.00	4,300.00	305.00	-5.00	-5.00	2.00	-2.00	0.00
4,400.00	0.00	0.00	4,381.14	305.00	-5.00	-5.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,481.14	305.00	-5.00	-5.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,581.14	305.00	-5.00	-5.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,681.14	305.00	-5.00	-5.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,781.14	305.00	-5.00	-5.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,881.14	305.00	-5.00	-5.00	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site:	Sec 14-T23S-28E	North Reference:	Grid
Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 4		

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	0.00	0.00	4,981.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,081.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,181.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,281.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,381.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,481.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,581.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,681.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,781.14	305.00	-5.00	-5.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,881.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,000.00	0.00	0.00	5,981.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,081.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,181.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,281.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,381.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,481.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,581.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,681.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,781.14	305.00	-5.00	-5.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,881.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,000.00	0.00	0.00	6,981.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,081.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,181.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,281.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,381.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,481.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,581.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,681.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,781.14	305.00	-5.00	-5.00	0.00	0.00	0.00
7,845.99	0.00	0.00	7,827.13	305.00	-5.00	-5.00	0.00	0.00	0.00
7,850.00	0.40	83.00	7,831.14	305.00	-4.99	-4.99	10.00	10.00	0.00
7,900.00	5.40	83.00	7,881.06	305.31	-2.48	-2.48	10.00	10.00	0.00
7,950.00	10.40	83.00	7,930.57	306.15	4.34	4.34	10.00	10.00	0.00
8,000.00	15.40	83.00	7,979.29	307.51	15.42	15.42	10.00	10.00	0.00
8,050.00	20.40	83.00	8,026.86	309.38	30.67	30.67	10.00	10.00	0.00
8,100.00	25.40	83.00	8,072.90	311.75	49.98	49.98	10.00	10.00	0.00
8,150.00	30.40	83.00	8,117.07	314.60	73.19	73.19	10.00	10.00	0.00
8,200.00	35.40	83.00	8,159.04	317.91	100.14	100.14	10.00	10.00	0.00
8,250.00	40.40	83.00	8,198.48	321.65	130.62	130.62	10.00	10.00	0.00
8,300.00	45.40	83.00	8,235.10	325.80	164.39	164.39	10.00	10.00	0.00
8,350.00	50.40	83.00	8,268.61	330.32	201.20	201.20	10.00	10.00	0.00
8,400.00	55.40	83.00	8,298.76	335.18	240.77	240.77	10.00	10.00	0.00
8,450.00	60.40	83.00	8,325.32	340.34	282.80	282.80	10.00	10.00	0.00
8,500.00	65.40	83.00	8,348.09	345.76	326.96	326.96	10.00	10.00	0.00
8,550.00	70.40	83.00	8,366.89	351.40	372.93	372.93	10.00	10.00	0.00
8,600.00	75.40	83.00	8,381.59	357.23	420.35	420.35	10.00	10.00	0.00
8,650.00	80.40	83.00	8,392.07	363.18	468.86	468.86	10.00	10.00	0.00
8,700.00	85.40	83.00	8,398.24	369.23	518.09	518.09	10.00	10.00	0.00
8,735.99	89.00	83.00	8,400.00	373.61	553.76	553.76	10.00	10.00	0.00
8,800.00	89.00	84.28	8,401.12	380.70	617.37	617.37	2.00	0.00	2.00
8,900.00	89.00	86.28	8,402.86	388.92	717.01	717.01	2.00	0.00	2.00
9,000.00	89.00	88.28	8,404.61	393.67	816.87	816.87	2.00	0.00	2.00
9,081.55	89.00	89.91	8,406.02	394.95	898.40	898.40	2.00	0.00	2.00
9,100.00	89.00	89.91	8,406.34	394.98	916.85	916.85	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site:	Sec 14-T23S-28E	North Reference:	Grid
Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 4		

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)	
9,200.00	89.00	89.91	8,408.08	395.13	1,016.83	1,016.83	0.00	0.00	0.00	
9,300.00	89.00	89.91	8,409.82	395.29	1,116.82	1,116.82	0.00	0.00	0.00	
9,400.00	89.00	89.91	8,411.56	395.44	1,216.80	1,216.80	0.00	0.00	0.00	
9,500.00	89.00	89.91	8,413.29	395.59	1,316.79	1,316.79	0.00	0.00	0.00	
9,600.00	89.00	89.91	8,415.03	395.75	1,416.77	1,416.77	0.00	0.00	0.00	
9,700.00	89.00	89.91	8,416.77	395.90	1,516.76	1,516.76	0.00	0.00	0.00	
9,800.00	89.00	89.91	8,418.50	396.05	1,616.74	1,616.74	0.00	0.00	0.00	
9,900.00	89.00	89.91	8,420.24	396.21	1,716.73	1,716.73	0.00	0.00	0.00	
10,000.00	89.00	89.91	8,421.98	396.36	1,816.71	1,816.71	0.00	0.00	0.00	
10,100.00	89.00	89.91	8,423.71	396.51	1,916.69	1,916.69	0.00	0.00	0.00	
10,200.00	89.00	89.91	8,425.45	396.67	2,016.68	2,016.68	0.00	0.00	0.00	
10,300.00	89.00	89.91	8,427.19	396.82	2,116.66	2,116.66	0.00	0.00	0.00	
10,400.00	89.00	89.91	8,428.93	396.97	2,216.65	2,216.65	0.00	0.00	0.00	
10,500.00	89.00	89.91	8,430.66	397.13	2,316.63	2,316.63	0.00	0.00	0.00	
10,600.00	89.00	89.91	8,432.40	397.28	2,416.62	2,416.62	0.00	0.00	0.00	
10,700.00	89.00	89.91	8,434.14	397.43	2,516.60	2,516.60	0.00	0.00	0.00	
10,800.00	89.00	89.91	8,435.87	397.59	2,616.59	2,616.59	0.00	0.00	0.00	
10,900.00	89.00	89.91	8,437.61	397.74	2,716.57	2,716.57	0.00	0.00	0.00	
11,000.00	89.00	89.91	8,439.35	397.89	2,816.56	2,816.56	0.00	0.00	0.00	
11,100.00	89.00	89.91	8,441.08	398.05	2,916.54	2,916.54	0.00	0.00	0.00	
11,200.00	89.00	89.91	8,442.82	398.20	3,016.53	3,016.53	0.00	0.00	0.00	
11,300.00	89.00	89.91	8,444.56	398.35	3,116.51	3,116.51	0.00	0.00	0.00	
11,400.00	89.00	89.91	8,446.29	398.50	3,216.50	3,216.50	0.00	0.00	0.00	
11,500.00	89.00	89.91	8,448.03	398.66	3,316.48	3,316.48	0.00	0.00	0.00	
11,600.00	89.00	89.91	8,449.77	398.81	3,416.47	3,416.47	0.00	0.00	0.00	
11,700.00	89.00	89.91	8,451.51	398.96	3,516.45	3,516.45	0.00	0.00	0.00	
11,800.00	89.00	89.91	8,453.24	399.12	3,616.44	3,616.44	0.00	0.00	0.00	
11,900.00	89.00	89.91	8,454.98	399.27	3,716.42	3,716.42	0.00	0.00	0.00	
12,000.00	89.00	89.91	8,456.72	399.42	3,816.41	3,816.41	0.00	0.00	0.00	
12,100.00	89.00	89.91	8,458.45	399.58	3,916.39	3,916.39	0.00	0.00	0.00	
12,200.00	89.00	89.91	8,460.19	399.73	4,016.38	4,016.38	0.00	0.00	0.00	
12,300.00	89.00	89.91	8,461.93	399.88	4,116.36	4,116.36	0.00	0.00	0.00	
12,400.00	89.00	89.91	8,463.66	400.04	4,216.35	4,216.35	0.00	0.00	0.00	
12,500.00	89.00	89.91	8,465.40	400.19	4,316.33	4,316.33	0.00	0.00	0.00	
12,600.00	89.00	89.91	8,467.14	400.34	4,416.31	4,416.31	0.00	0.00	0.00	
12,700.00	89.00	89.91	8,468.87	400.50	4,516.30	4,516.30	0.00	0.00	0.00	
12,800.00	89.00	89.91	8,470.61	400.65	4,616.28	4,616.28	0.00	0.00	0.00	
12,900.00	89.00	89.91	8,472.35	400.80	4,716.27	4,716.27	0.00	0.00	0.00	
13,000.00	89.00	89.91	8,474.09	400.96	4,816.25	4,816.25	0.00	0.00	0.00	
13,100.00	89.00	89.91	8,475.82	401.11	4,916.24	4,916.24	0.00	0.00	0.00	
13,200.00	89.00	89.91	8,477.56	401.26	5,016.22	5,016.22	0.00	0.00	0.00	
13,300.00	89.00	89.91	8,479.30	401.42	5,116.21	5,116.21	0.00	0.00	0.00	
13,400.00	89.00	89.91	8,481.03	401.57	5,216.19	5,216.19	0.00	0.00	0.00	
13,500.00	89.00	89.91	8,482.77	401.72	5,316.18	5,316.18	0.00	0.00	0.00	
13,600.00	89.00	89.91	8,484.51	401.88	5,416.16	5,416.16	0.00	0.00	0.00	
13,700.00	89.00	89.91	8,486.24	402.03	5,516.15	5,516.15	0.00	0.00	0.00	
13,800.00	89.00	89.91	8,487.98	402.18	5,616.13	5,616.13	0.00	0.00	0.00	
13,900.00	89.00	89.91	8,489.72	402.34	5,716.12	5,716.12	0.00	0.00	0.00	
13,973.85	89.00	89.91	8,491.00	402.45	5,789.96	5,789.96	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site:	Sec 14-T23S-28E	North Reference:	Grid
Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 4		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Ovation 241H FTP (330'	0.00	0.00	8,400.00	397.35	507.16	477,337.17	629,115.99	32.31195290	-104.04920030
- plan misses target center by 29.35usft at 8692.85usft MD (8397.63 TVD, 368.36 N, 511.02 E)									
- Point									
Ovation 241H LTP (330'	0.00	0.00	8,490.50	402.40	5,699.98	477,342.22	634,308.81	32.31192781	-104.03239164
- plan misses target center by 1.07usft at 13883.88usft MD (8489.44 TVD, 402.31 N, 5700.00 E)									
- Point									
PBHL Ovation 241H (33'	0.00	0.01	8,491.00	402.45	5,789.96	477,342.27	634,398.79	32.31192725	-104.03210039
- plan hits target center									
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
19,500.00		20" Casing	20	24



NOVO Oil & Gas

EDDY CO., NM (NAD83)

Sec 14-T23S-28E

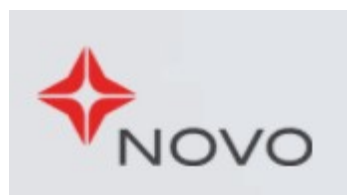
Ovation Fed Com 1318 241H

Wellbore #1

Plan 4

Anticollision Report

06 December, 2021





Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Reference	Plan 4		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,495.72usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/6/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	13,973.22	Plan 4 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 14-T23S-28E						
H F 13 COM 001C - Wellbore #1 - Wellbore #1	11,675.70	8,457.88	1,296.77	965.40	3.913	CC
H F 13 COM 001C - Wellbore #1 - Wellbore #1	11,700.00	8,458.30	1,297.00	965.01	3.907	ES
H F 13 COM 001C - Wellbore #1 - Wellbore #1	11,800.00	8,460.04	1,302.71	968.54	3.898	SF
Ovation Fed Com 1318 131H - Wellbore #1 - Plan 2	1,500.00	1,499.60	60.71	50.36	5.864	CC, ES
Ovation Fed Com 1318 131H - Wellbore #1 - Plan 2	1,600.00	1,598.19	61.85	50.81	5.601	SF
Ovation Fed Com 1318 132H - Wellbore #1 - Plan 3	1,416.53	1,416.93	19.69	9.96	2.023	CC
Ovation Fed Com 1318 132H - Wellbore #1 - Plan 3	1,500.00	1,500.40	19.69	9.36	1.906	Collision Risk Procedures Re
Ovation Fed Com 1318 132H - Wellbore #1 - Plan 3	3,700.00	3,696.95	50.03	22.76	1.835	Collision Risk Procedures Re
Ovation Fed Com 1318 211H - Wellbore #1 - Plan 3	1,601.80	1,602.31	19.72	8.64	1.780	Collision Risk Procedures Re
Ovation Fed Com 1318 211H - Wellbore #1 - Plan 3	1,700.00	1,700.95	20.04	8.25	1.700	Collision Risk Procedures Re
Ovation Fed Com 1318 211H - Wellbore #1 - Plan 3	1,800.00	1,801.39	21.04	8.55	1.684	Collision Risk Procedures Re
Ovation Fed Com 1318 231H - Wellbore #1 - Plan 3	1,622.29	1,621.78	39.76	28.54	3.543	CC, ES
Ovation Fed Com 1318 231H - Wellbore #1 - Plan 3	8,495.04	8,365.79	100.36	39.08	1.638	Collision Risk Procedures Re
Ovation Fed Com 1318 232H - Wellbore #1 - Plan 2	1,504.19	1,505.39	81.13	72.66	9.575	CC
Ovation Fed Com 1318 232H - Wellbore #1 - Plan 2	1,600.00	1,600.00	81.49	72.48	9.044	ES
Ovation Fed Com 1318 232H - Wellbore #1 - Plan 2	1,700.00	1,697.56	85.85	76.32	9.011	SF

Offset Design: Sec 14-T23S-28E - H F 13 COM 001C - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 100-INC-ONLY								Rule Assigned:				Offset Well Error:	10.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
11,000.00	8,439.35	8,446.14	8,442.35	90.82	220.34	89.48	-897.84	3,494.14	1,462.20	1,157.92	304.28	4.805		
11,100.00	8,441.08	8,447.88	8,444.08	93.77	220.37	89.56	-897.84	3,494.14	1,418.78	1,109.90	308.88	4.593		
11,200.00	8,442.82	8,449.61	8,445.82	96.73	220.40	89.63	-897.84	3,494.14	1,381.24	1,067.80	313.44	4.407		
11,300.00	8,444.56	8,451.35	8,447.56	99.71	220.43	89.71	-897.84	3,494.14	1,350.08	1,032.22	317.86	4.247		
11,400.00	8,446.29	8,453.09	8,449.29	102.69	220.46	89.79	-897.84	3,494.14	1,325.74	1,003.70	322.04	4.117		
11,500.00	8,448.03	8,454.82	8,451.03	105.68	220.49	89.87	-897.84	3,494.14	1,308.61	982.76	325.85	4.016		
11,600.00	8,449.77	8,456.56	8,452.77	108.68	220.52	89.94	-897.84	3,494.14	1,298.98	969.78	329.20	3.946		
11,675.70	8,451.08	8,457.88	8,454.08	110.95	220.54	90.00	-897.84	3,494.14	1,296.77	965.40	331.36	3.913	CC	
11,700.00	8,451.51	8,458.30	8,454.51	111.69	220.55	90.02	-897.84	3,494.14	1,297.00	965.01	331.99	3.907	ES	
11,800.00	8,453.24	8,460.04	8,456.24	114.70	220.58	90.10	-897.84	3,494.14	1,302.71	968.54	334.17	3.898	SF	
11,900.00	8,454.98	8,461.77	8,457.98	117.72	220.61	90.17	-897.84	3,494.14	1,316.02	980.31	335.71	3.920		
12,000.00	8,456.72	8,463.51	8,459.72	120.74	220.64	90.25	-897.84	3,494.14	1,336.69	1,000.06	336.63	3.971		

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - H F 13 COM 001C - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 100-INC-ONLY												Offset Well Error:	10.00 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	
12,100.00	8,458.45	8,465.25	8,461.45	123.77	220.67	90.33	-897.84	3,494.14	1,364.40	1,027.44	336.96	4.049	
12,200.00	8,460.19	8,466.98	8,463.19	126.81	220.70	90.40	-897.84	3,494.14	1,398.72	1,061.95	336.77	4.153	
12,300.00	8,461.93	8,468.72	8,464.93	129.85	220.73	90.48	-897.84	3,494.14	1,439.18	1,103.05	336.13	4.282	
12,400.00	8,463.66	8,470.46	8,466.66	132.89	220.76	90.56	-897.84	3,494.14	1,485.28	1,150.16	335.12	4.432	



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 131H - Wellbore #1 - Plan 2													Offset Site Error: 0.00 usft
Survey Program: C-MWD+IGRF													Offset Well Error: 0.50 usft
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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	150.72	-52.96	29.69	60.72				
100.00	100.00	99.60	99.60	0.52	0.52	150.72	-52.96	29.69	60.71	59.68	1.04	58.640	
200.00	200.00	199.60	199.60	0.70	0.70	150.72	-52.96	29.69	60.71	59.31	1.40	43.269	
300.00	300.00	299.60	299.60	0.99	0.99	150.72	-52.96	29.69	60.71	58.74	1.97	30.766	
400.00	400.00	399.60	399.60	1.31	1.31	150.72	-52.96	29.69	60.71	58.10	2.62	23.201	
500.00	500.00	499.60	499.60	1.65	1.64	150.72	-52.96	29.69	60.71	57.42	3.29	18.450	
600.00	600.00	599.60	599.60	1.99	1.99	150.72	-52.96	29.69	60.71	56.73	3.98	15.256	
700.00	700.00	699.60	699.60	2.34	2.34	150.72	-52.96	29.69	60.71	56.04	4.68	12.981	
800.00	800.00	799.60	799.60	2.69	2.69	150.72	-52.96	29.69	60.71	55.33	5.38	11.286	
900.00	900.00	899.60	899.60	3.04	3.04	150.72	-52.96	29.69	60.71	54.63	6.09	9.977	
1,000.00	1,000.00	999.60	999.60	3.40	3.40	150.72	-52.96	29.69	60.71	53.92	6.79	8.937	
1,100.00	1,100.00	1,099.60	1,099.60	3.75	3.75	150.72	-52.96	29.69	60.71	53.21	7.50	8.091	
1,200.00	1,200.00	1,199.60	1,199.60	4.11	4.11	150.72	-52.96	29.69	60.71	52.50	8.21	7.391	
1,300.00	1,300.00	1,299.60	1,299.60	4.46	4.46	150.72	-52.96	29.69	60.71	51.79	8.93	6.801	
1,400.00	1,400.00	1,399.60	1,399.60	4.82	4.82	150.72	-52.96	29.69	60.71	51.07	9.64	6.298	
1,500.00	1,500.00	1,499.60	1,499.60	5.18	5.18	150.72	-52.96	29.69	60.71	50.36	10.35	5.864 CC, ES	
1,600.00	1,600.00	1,598.19	1,598.17	5.53	5.51	151.90	-54.55	29.13	61.85	50.81	11.04	5.601 SF	
1,700.00	1,699.98	1,696.41	1,696.26	5.89	5.83	153.79	-59.30	27.44	66.99	55.28	11.71	5.720	
1,800.00	1,799.84	1,793.61	1,793.10	6.25	6.15	159.60	-67.13	24.66	78.28	65.91	12.37	6.327	
1,900.00	1,899.45	1,891.36	1,890.28	6.61	6.48	166.80	-77.06	21.13	95.42	82.37	13.05	7.313	
2,000.00	1,998.72	1,988.82	1,987.17	6.97	6.82	172.40	-87.01	17.60	116.56	102.83	13.73	8.491	
2,100.00	2,097.87	2,086.07	2,083.84	7.34	7.17	175.21	-96.94	14.08	139.04	124.64	14.40	9.653	
2,200.00	2,197.02	2,183.32	2,180.52	7.72	7.52	177.23	-106.87	10.55	161.76	146.67	15.09	10.722	
2,300.00	2,296.17	2,280.57	2,277.19	8.10	7.88	178.76	-116.80	7.03	184.62	168.85	15.77	11.706	
2,400.00	2,395.32	2,377.82	2,373.87	8.49	8.24	179.95	-126.73	3.50	207.58	191.12	16.46	12.611	
2,500.00	2,494.47	2,475.06	2,470.54	8.88	8.60	-179.09	-136.66	-0.02	230.61	213.46	17.15	13.445	
2,600.00	2,593.62	2,572.31	2,567.22	9.27	8.97	-178.31	-146.59	-3.55	253.68	235.84	17.84	14.216	
2,700.00	2,692.78	2,669.56	2,663.89	9.67	9.34	-177.66	-156.52	-7.07	276.80	258.26	18.54	14.929	
2,800.00	2,791.93	2,766.81	2,760.57	10.07	9.71	-177.11	-166.45	-10.60	299.94	280.70	19.24	15.591	
2,900.00	2,891.08	2,864.06	2,857.25	10.47	10.09	-176.64	-176.38	-14.12	323.10	303.16	19.94	16.206	
3,000.00	2,990.23	2,961.30	2,953.92	10.87	10.46	-176.23	-186.31	-17.65	346.28	325.65	20.64	16.779	
3,100.00	3,089.38	3,058.55	3,050.60	11.28	10.84	-175.88	-196.24	-21.18	369.48	348.14	21.34	17.314	
3,200.00	3,188.53	3,155.80	3,147.27	11.68	11.22	-175.56	-206.17	-24.70	392.69	370.65	22.04	17.815	
3,300.00	3,287.68	3,253.05	3,243.95	12.09	11.60	-175.28	-216.10	-28.23	415.91	393.16	22.75	18.284	
3,400.00	3,386.83	3,350.30	3,340.62	12.50	11.99	-175.03	-226.03	-31.75	439.13	415.68	23.45	18.724	
3,500.00	3,485.98	3,447.55	3,437.30	12.91	12.37	-174.81	-235.96	-35.28	462.37	438.21	24.16	19.138	
3,600.00	3,585.13	3,544.79	3,533.98	13.32	12.76	-174.60	-245.89	-38.80	485.61	460.74	24.87	19.528	
3,700.00	3,684.28	3,642.04	3,630.65	13.74	13.14	-174.42	-255.82	-42.33	508.85	483.28	25.58	19.896	
3,800.00	3,783.43	3,739.29	3,727.33	14.15	13.53	-174.25	-265.75	-45.85	532.10	505.82	26.28	20.244	
3,900.00	3,882.58	3,836.54	3,824.00	14.56	13.92	-174.09	-275.68	-49.38	555.36	528.36	26.99	20.573	
4,000.00	3,981.80	3,933.90	3,920.79	14.98	14.31	-173.97	-285.62	-52.91	578.11	550.40	27.70	20.867	
4,100.00	4,081.35	4,031.92	4,018.24	15.37	14.70	-173.85	-295.63	-56.46	597.82	569.40	28.42	21.039	
4,200.00	4,181.17	4,130.56	4,116.29	15.74	15.10	-173.69	-305.70	-60.03	614.12	584.99	29.13	21.084	
4,300.00	4,281.14	4,229.69	4,214.84	16.09	15.50	-173.49	-315.82	-63.63	626.99	597.16	29.84	21.013	
4,400.00	4,381.14	4,349.33	4,333.92	16.43	15.97	-174.35	-326.60	-67.45	636.40	605.71	30.70	20.732	
4,500.00	4,481.14	4,476.80	4,461.21	16.76	16.44	-174.21	-333.03	-69.74	641.61	610.04	31.57	20.325	
4,600.00	4,581.14	4,596.35	4,580.74	17.10	16.84	-174.18	-334.36	-70.21	642.68	610.33	32.35	19.867	
4,700.00	4,681.14	4,696.35	4,680.74	17.44	17.16	-174.18	-334.36	-70.21	642.68	609.64	33.04	19.451	
4,800.00	4,781.14	4,796.35	4,780.74	17.78	17.48	-174.18	-334.36	-70.21	642.68	608.94	33.73	19.051	
4,900.00	4,881.14	4,896.35	4,880.74	18.12	17.81	-174.18	-334.36	-70.21	642.68	608.25	34.43	18.667	
5,000.00	4,981.14	4,996.35	4,980.74	18.46	18.13	-174.18	-334.36	-70.21	642.68	607.55	35.12	18.298	
5,100.00	5,081.14	5,096.35	5,080.74	18.80	18.46	-174.18	-334.36	-70.21	642.68	606.86	35.82	17.942	

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 131H - Wellbore #1 - Plan 2													Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF													Offset Well Error:	0.50 usft
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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,181.14	5,196.35	5,180.74	19.14	18.79	-174.18	-334.36	-70.21	642.68	606.16	36.52	17.600		
5,300.00	5,281.14	5,296.35	5,280.74	19.48	19.11	-174.18	-334.36	-70.21	642.68	605.46	37.21	17.270		
5,400.00	5,381.14	5,396.35	5,380.74	19.82	19.44	-174.18	-334.36	-70.21	642.68	604.76	37.91	16.952		
5,500.00	5,481.14	5,496.35	5,480.74	20.17	19.77	-174.18	-334.36	-70.21	642.68	604.07	38.61	16.645		
5,600.00	5,581.14	5,596.35	5,580.74	20.51	20.11	-174.18	-334.36	-70.21	642.68	603.37	39.31	16.349		
5,700.00	5,681.14	5,696.35	5,680.74	20.86	20.44	-174.18	-334.36	-70.21	642.68	602.67	40.01	16.062		
5,800.00	5,781.14	5,796.35	5,780.74	21.20	20.77	-174.18	-334.36	-70.21	642.68	601.96	40.71	15.786		
5,900.00	5,881.14	5,896.35	5,880.74	21.55	21.11	-174.18	-334.36	-70.21	642.68	601.26	41.41	15.519		
6,000.00	5,981.14	5,996.35	5,980.74	21.89	21.44	-174.18	-334.36	-70.21	642.68	600.56	42.12	15.260		
6,100.00	6,081.14	6,096.35	6,080.74	22.24	21.78	-174.18	-334.36	-70.21	642.68	599.86	42.82	15.010		
6,200.00	6,181.14	6,196.35	6,180.74	22.58	22.11	-174.18	-334.36	-70.21	642.68	599.16	43.52	14.767		
6,300.00	6,281.14	6,296.35	6,280.74	22.93	22.45	-174.18	-334.36	-70.21	642.68	598.45	44.22	14.532		
6,400.00	6,381.14	6,396.35	6,380.74	23.28	22.79	-174.18	-334.36	-70.21	642.68	597.75	44.93	14.305		
6,500.00	6,481.14	6,496.35	6,480.74	23.63	23.13	-174.18	-334.36	-70.21	642.68	597.04	45.63	14.084		
6,600.00	6,581.14	6,596.35	6,580.74	23.97	23.47	-174.18	-334.36	-70.21	642.68	596.34	46.34	13.870		
6,700.00	6,681.14	6,696.35	6,680.74	24.32	23.81	-174.18	-334.36	-70.21	642.68	595.64	47.04	13.662		
6,800.00	6,781.14	6,796.35	6,780.74	24.67	24.15	-174.18	-334.36	-70.21	642.68	594.93	47.75	13.460		
6,900.00	6,881.14	6,896.35	6,880.74	25.02	24.49	-174.18	-334.36	-70.21	642.68	594.22	48.45	13.264		
7,000.00	6,981.14	6,996.35	6,980.74	25.37	24.83	-174.18	-334.36	-70.21	642.68	593.52	49.16	13.074		
7,100.00	7,081.14	7,096.35	7,080.74	25.72	25.17	-174.18	-334.36	-70.21	642.68	592.81	49.87	12.888		
7,200.00	7,181.14	7,196.35	7,180.74	26.07	25.51	-174.18	-334.36	-70.21	642.68	592.11	50.57	12.708		
7,300.00	7,281.14	7,296.35	7,280.74	26.42	25.85	-174.18	-334.36	-70.21	642.68	591.40	51.28	12.533		
7,400.00	7,381.14	7,396.35	7,380.74	26.77	26.20	-174.18	-334.36	-70.21	642.68	590.69	51.99	12.363		
7,500.00	7,481.14	7,496.35	7,480.74	27.12	26.54	-174.18	-334.36	-70.21	642.68	589.98	52.69	12.197		
7,600.00	7,581.14	7,596.35	7,580.74	27.47	26.89	-174.18	-334.36	-70.21	642.68	589.28	53.40	12.035		
7,700.00	7,681.14	7,696.35	7,680.74	27.82	27.23	-174.18	-334.36	-70.21	642.68	588.57	54.11	11.877		
7,800.00	7,781.14	7,796.35	7,780.74	28.17	27.57	-174.18	-334.36	-70.21	642.68	587.86	54.82	11.724		
7,802.62	7,783.76	7,798.97	7,783.36	28.18	27.58	102.82	-334.36	-70.21	642.68	587.84	54.84	11.720		
7,900.00	7,881.06	7,896.27	7,880.66	28.51	27.92	102.99	-334.36	-70.21	643.25	587.73	55.52	11.587		
8,000.00	7,979.29	7,994.51	7,978.89	28.85	28.26	104.10	-334.36	-70.21	647.55	591.36	56.20	11.523		
8,100.00	8,072.90	8,088.11	8,072.50	29.18	28.58	105.93	-334.36	-70.21	657.19	600.34	56.85	11.560		
8,200.00	8,159.04	8,174.26	8,158.64	29.51	28.88	107.92	-334.36	-70.21	674.15	616.67	57.48	11.728		
8,300.00	8,235.10	8,250.31	8,234.70	29.89	29.14	109.34	-334.36	-70.21	700.60	642.52	58.09	12.061		
8,400.00	8,298.76	8,313.97	8,298.36	30.42	29.36	109.48	-334.36	-70.21	738.23	679.56	58.68	12.582		
8,500.00	8,348.09	8,363.30	8,347.69	31.16	29.53	107.58	-334.36	-70.21	787.60	728.36	59.23	13.297		
8,600.00	8,381.59	8,396.80	8,381.19	32.14	29.65	102.94	-334.36	-70.21	847.90	788.17	59.73	14.195		
8,700.00	8,398.24	8,413.46	8,397.84	33.36	29.71	94.90	-334.36	-70.21	917.13	856.99	60.14	15.250		
8,800.00	8,401.12	8,416.33	8,400.72	34.79	29.72	91.17	-334.36	-70.21	992.00	931.55	60.46	16.409		
8,900.00	8,402.86	8,418.08	8,402.46	36.41	29.72	91.24	-334.36	-70.21	1,069.04	1,008.28	60.76	17.595		
9,000.00	8,404.61	8,419.82	8,404.21	38.22	29.73	91.29	-334.36	-70.21	1,147.58	1,086.53	61.05	18.797		
9,100.00	8,406.34	8,421.56	8,405.94	40.18	29.74	91.35	-334.36	-70.21	1,227.28	1,165.95	61.33	20.011		
9,200.00	8,408.08	8,423.30	8,407.68	42.27	29.74	91.49	-334.36	-70.21	1,309.13	1,247.54	61.59	21.256		
9,300.00	8,409.82	10,427.47	9,522.42	44.49	46.59	146.19	-350.57	1,079.11	1,340.33	1,281.60	58.73	22.821		
9,400.00	8,411.56	10,527.46	9,524.86	46.81	48.83	146.15	-351.98	1,179.05	1,341.79	1,280.50	61.29	21.891		
9,500.00	8,413.29	10,627.44	9,527.30	49.22	51.17	146.11	-353.39	1,279.00	1,343.25	1,279.27	63.98	20.996		
9,600.00	8,415.03	10,727.43	9,529.75	51.71	53.58	146.07	-354.80	1,378.94	1,344.71	1,277.94	66.77	20.140		
9,700.00	8,416.77	10,827.41	9,532.19	54.27	56.07	146.03	-356.21	1,478.89	1,346.16	1,276.50	69.66	19.325		
9,800.00	8,418.50	10,927.40	9,534.63	56.88	58.62	145.99	-357.62	1,578.83	1,347.62	1,274.99	72.63	18.553		
9,900.00	8,420.24	11,027.38	9,537.07	59.54	61.22	145.96	-359.03	1,678.78	1,349.08	1,273.39	75.69	17.824		
10,000.00	8,421.98	11,127.37	9,539.51	62.25	63.87	145.92	-360.44	1,778.72	1,350.54	1,271.73	78.81	17.137		
10,100.00	8,423.71	11,227.35	9,541.96	64.99	66.56	145.88	-361.84	1,878.67	1,352.00	1,270.01	81.99	16.489		
10,200.00	8,425.45	11,327.34	9,544.40	67.77	69.29	145.84	-363.25	1,978.62	1,353.46	1,268.23	85.23	15.880		

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 131H - Wellbore #1 - Plan 2												Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF												Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		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	
10,300.00	8,427.19	11,427.32	9,546.84	70.58	72.05	145.80	-364.66	2,078.56	1,354.93	1,266.40	88.52	15.306	
10,400.00	8,428.93	11,527.31	9,549.28	73.41	74.84	145.77	-366.07	2,178.51	1,356.39	1,264.53	91.86	14.766	
10,500.00	8,430.66	11,627.29	9,551.72	76.27	77.65	145.73	-367.48	2,278.45	1,357.85	1,262.62	95.23	14.258	
10,600.00	8,432.40	11,727.28	9,554.16	79.14	80.49	145.69	-368.89	2,378.40	1,359.31	1,260.66	98.65	13.779	
10,700.00	8,434.14	11,827.26	9,556.61	82.04	83.35	145.65	-370.30	2,478.34	1,360.78	1,258.68	102.10	13.328	
10,800.00	8,435.87	11,927.25	9,559.05	84.95	86.23	145.62	-371.71	2,578.29	1,362.24	1,256.66	105.58	12.902	
10,900.00	8,437.61	12,027.24	9,561.49	87.88	89.13	145.58	-373.12	2,678.23	1,363.71	1,254.62	109.09	12.501	
11,000.00	8,439.35	12,127.22	9,563.93	90.82	92.04	145.54	-374.53	2,778.18	1,365.17	1,252.54	112.63	12.121	
11,100.00	8,441.08	12,227.21	9,566.37	93.77	94.96	145.50	-375.94	2,878.13	1,366.64	1,250.45	116.19	11.762	
11,200.00	8,442.82	12,327.19	9,568.82	96.73	97.90	145.47	-377.35	2,978.07	1,368.11	1,248.33	119.78	11.422	
11,300.00	8,444.56	12,427.18	9,571.26	99.71	100.85	145.43	-378.76	3,078.02	1,369.58	1,246.18	123.39	11.099	
11,400.00	8,446.29	12,527.16	9,573.70	102.69	103.81	145.39	-380.17	3,177.96	1,371.04	1,244.02	127.02	10.794	
11,500.00	8,448.03	12,627.15	9,576.14	105.68	106.78	145.35	-381.58	3,277.91	1,372.51	1,241.84	130.67	10.503	
11,600.00	8,449.77	12,727.13	9,578.58	108.68	109.76	145.32	-382.99	3,377.85	1,373.98	1,239.64	134.34	10.228	
11,700.00	8,451.51	12,827.12	9,581.02	111.69	112.74	145.28	-384.40	3,477.80	1,375.45	1,237.43	138.03	9.965	
11,800.00	8,453.24	12,927.10	9,583.47	114.70	115.74	145.24	-385.81	3,577.74	1,376.92	1,235.19	141.73	9.715	
11,900.00	8,454.98	13,027.09	9,585.91	117.72	118.74	145.21	-387.22	3,677.69	1,378.39	1,232.95	145.45	9.477	
12,000.00	8,456.72	13,127.07	9,588.35	120.74	121.75	145.17	-388.63	3,777.64	1,379.86	1,230.69	149.18	9.250	
12,100.00	8,458.45	13,227.06	9,590.79	123.77	124.76	145.13	-390.04	3,877.58	1,381.34	1,228.41	152.92	9.033	
12,200.00	8,460.19	13,327.04	9,593.23	126.81	127.78	145.10	-391.44	3,977.53	1,382.81	1,226.12	156.69	8.825	
12,300.00	8,461.93	13,427.03	9,595.67	129.85	130.80	145.06	-392.85	4,077.47	1,384.28	1,223.82	160.46	8.627	
12,400.00	8,463.66	13,527.01	9,598.12	132.89	133.83	145.03	-394.26	4,177.42	1,385.76	1,221.51	164.24	8.437	
12,500.00	8,465.40	13,627.00	9,600.56	135.94	136.87	144.99	-395.67	4,277.36	1,387.23	1,219.19	168.04	8.255	
12,600.00	8,467.14	13,726.99	9,603.00	138.99	139.91	144.95	-397.08	4,377.31	1,388.71	1,216.86	171.85	8.081	
12,700.00	8,468.87	13,826.97	9,605.44	142.04	142.95	144.92	-398.49	4,477.25	1,390.18	1,214.51	175.67	7.914	
12,800.00	8,470.61	13,926.96	9,607.88	145.10	145.99	144.88	-399.90	4,577.20	1,391.66	1,212.16	179.50	7.753	
12,900.00	8,472.35	14,026.94	9,610.33	148.16	149.04	144.85	-401.31	4,677.15	1,393.13	1,209.79	183.34	7.598	
13,000.00	8,474.09	14,126.93	9,612.77	151.22	152.10	144.81	-402.72	4,777.09	1,394.61	1,207.42	187.20	7.450	
13,100.00	8,475.82	14,226.91	9,615.21	154.29	155.15	144.77	-404.13	4,877.04	1,396.09	1,205.03	191.06	7.307	
13,200.00	8,477.56	14,326.90	9,617.65	157.36	158.21	144.74	-405.54	4,976.98	1,397.57	1,202.64	194.93	7.170	
13,300.00	8,479.30	14,426.88	9,620.09	160.43	161.27	144.70	-406.95	5,076.93	1,399.05	1,200.24	198.81	7.037	
13,400.00	8,481.03	14,526.87	9,622.53	163.50	164.34	144.67	-408.36	5,176.87	1,400.53	1,197.83	202.70	6.909	
13,500.00	8,482.77	14,626.85	9,624.98	166.57	167.40	144.63	-409.77	5,276.82	1,402.01	1,195.41	206.60	6.786	
13,600.00	8,484.51	14,726.84	9,627.42	169.65	170.47	144.60	-411.18	5,376.76	1,403.49	1,192.98	210.50	6.667	
13,700.00	8,486.24	14,826.82	9,629.86	172.73	173.54	144.56	-412.59	5,476.71	1,404.97	1,190.55	214.42	6.552	
13,800.00	8,487.98	14,926.81	9,632.30	175.81	176.61	144.53	-414.00	5,576.66	1,406.45	1,188.11	218.34	6.442	
13,900.00	8,489.72	15,026.79	9,634.74	178.89	179.69	144.49	-415.41	5,676.60	1,407.93	1,185.66	222.27	6.334	
13,973.85	8,491.00	15,100.64	9,636.55	180.39	181.96	144.46	-416.45	5,750.41	1,409.02	1,184.33	224.69	6.271	

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 132H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.40	0.40	0.50	0.00	-30.02	17.05	-9.85	19.69					
100.00	100.00	100.40	100.40	0.52	0.14	-30.02	17.05	-9.85	19.69	19.04	0.65	30.126		
200.00	200.00	200.40	200.40	0.70	0.49	-30.02	17.05	-9.85	19.69	18.49	1.20	16.458		
300.00	300.00	300.40	300.40	0.99	0.85	-30.02	17.05	-9.85	19.69	17.85	1.84	10.701		
400.00	400.00	400.40	400.40	1.31	1.21	-30.02	17.05	-9.85	19.69	17.17	2.52	7.813		
500.00	500.00	500.40	500.40	1.65	1.57	-30.02	17.05	-9.85	19.69	16.47	3.22	6.123		
600.00	600.00	600.40	600.40	1.99	1.93	-30.02	17.05	-9.85	19.69	15.77	3.92	5.025		
700.00	700.00	700.40	700.40	2.34	2.29	-30.02	17.05	-9.85	19.69	15.06	4.63	4.257		
800.00	800.00	800.40	800.40	2.69	2.65	-30.02	17.05	-9.85	19.69	14.35	5.34	3.690		
900.00	900.00	900.40	900.40	3.04	3.00	-30.02	17.05	-9.85	19.69	13.64	6.05	3.256		
1,000.00	1,000.00	1,000.40	1,000.40	3.40	3.36	-30.02	17.05	-9.85	19.69	12.93	6.76	2.913		
1,100.00	1,100.00	1,100.40	1,100.40	3.75	3.72	-30.02	17.05	-9.85	19.69	12.22	7.47	2.635		
1,200.00	1,200.00	1,200.40	1,200.40	4.11	4.08	-30.02	17.05	-9.85	19.69	11.50	8.19	2.405		
1,300.00	1,300.00	1,300.40	1,300.40	4.46	4.44	-30.02	17.05	-9.85	19.69	10.79	8.90	2.212		
1,400.00	1,400.00	1,400.40	1,400.40	4.82	4.80	-30.02	17.05	-9.85	19.69	10.07	9.62	2.048		
1,416.53	1,416.53	1,416.93	1,416.93	4.88	4.86	-30.02	17.05	-9.85	19.69	9.96	9.73	2.023 CC		
1,500.00	1,500.00	1,500.40	1,500.40	5.18	5.15	-30.02	17.05	-9.85	19.69	9.36	10.33	1.906 Collision Risk Procedures Req., ES		
1,600.00	1,600.00	1,600.00	1,599.98	5.53	5.51	-28.39	18.77	-10.14	21.34	10.30	11.04	1.932 Collision Risk Procedures Req.		
1,700.00	1,699.98	1,698.89	1,698.73	5.89	5.87	-28.56	23.85	-11.02	24.78	13.05	11.74	2.112		
1,800.00	1,799.84	1,797.94	1,797.41	6.25	6.22	-28.51	32.31	-12.46	28.48	16.06	12.42	2.293		
1,900.00	1,899.45	1,897.32	1,896.09	6.61	6.58	-28.15	43.85	-14.44	32.09	18.98	13.11	2.448		
2,000.00	1,998.72	1,997.30	1,995.30	6.97	6.96	-29.50	56.00	-16.52	33.15	19.32	13.83	2.397		
2,100.00	2,097.87	2,097.28	2,094.52	7.34	7.33	-32.95	68.16	-18.60	33.41	18.85	14.56	2.295		
2,200.00	2,197.02	2,197.26	2,193.74	7.72	7.72	-36.33	80.31	-20.69	33.79	18.49	15.30	2.209		
2,300.00	2,296.17	2,297.24	2,292.95	8.10	8.10	-39.63	92.47	-22.77	34.28	18.24	16.04	2.137		
2,400.00	2,395.32	2,397.22	2,392.17	8.49	8.49	-42.82	104.62	-24.85	34.89	18.09	16.80	2.077		
2,500.00	2,494.47	2,497.20	2,491.38	8.88	8.88	-45.89	116.77	-26.93	35.60	18.04	17.56	2.027		
2,600.00	2,593.62	2,597.17	2,590.60	9.27	9.28	-48.84	128.93	-29.01	36.40	18.07	18.33	1.986 Collision Risk Procedures Req.		
2,700.00	2,692.78	2,697.15	2,689.82	9.67	9.67	-51.65	141.08	-31.10	37.30	18.19	19.11	1.952 Collision Risk Procedures Req.		
2,800.00	2,791.93	2,797.13	2,789.03	10.07	10.07	-54.32	153.24	-33.18	38.29	18.39	19.90	1.924 Collision Risk Procedures Req.		
2,900.00	2,891.08	2,897.11	2,888.25	10.47	10.47	-56.85	165.39	-35.26	39.35	18.65	20.70	1.901 Collision Risk Procedures Req.		
3,000.00	2,990.23	2,997.09	2,987.46	10.87	10.88	-59.25	177.55	-37.34	40.49	18.98	21.50	1.883 Collision Risk Procedures Req.		
3,100.00	3,089.38	3,097.07	3,086.68	11.28	11.28	-61.51	189.70	-39.42	41.69	19.38	22.31	1.868 Collision Risk Procedures Req.		
3,200.00	3,188.53	3,197.05	3,185.90	11.68	11.69	-63.64	201.86	-41.50	42.96	19.83	23.13	1.857 Collision Risk Procedures Req.		
3,300.00	3,287.68	3,297.03	3,285.11	12.09	12.09	-65.65	214.01	-43.59	44.28	20.33	23.95	1.849 Collision Risk Procedures Req.		
3,400.00	3,386.83	3,397.01	3,384.33	12.50	12.50	-67.54	226.17	-45.67	45.65	20.87	24.78	1.843 Collision Risk Procedures Req.		
3,500.00	3,485.98	3,496.99	3,483.55	12.91	12.91	-69.31	238.32	-47.75	47.07	21.46	25.60	1.838 Collision Risk Procedures Req.		
3,600.00	3,585.13	3,596.97	3,582.76	13.32	13.32	-70.99	250.48	-49.83	48.53	22.10	26.43	1.836 Collision Risk Procedures Req.		
3,700.00	3,684.28	3,696.95	3,681.98	13.74	13.73	-72.56	262.63	-51.91	50.03	22.76	27.27	1.835 Collision Risk Procedures Req., SF		
3,800.00	3,783.43	3,796.93	3,781.19	14.15	14.14	-74.04	274.78	-54.00	51.56	23.46	28.10	1.835 Collision Risk Procedures Req.		
3,900.00	3,882.58	3,896.91	3,880.41	14.56	14.55	-75.43	286.94	-56.08	53.13	24.19	28.94	1.836 Collision Risk Procedures Req.		
4,000.00	3,981.80	3,996.89	3,979.63	14.98	14.96	-76.23	299.09	-58.16	54.85	25.09	29.77	1.843 Collision Risk Procedures Req.		
4,100.00	4,081.35	4,096.83	4,078.80	15.37	15.37	-73.96	311.24	-60.24	57.37	26.85	30.52	1.880 Collision Risk Procedures Req.		
4,200.00	4,181.17	4,196.61	4,177.82	15.74	15.78	-68.81	323.37	-62.32	61.15	29.96	31.19	1.961 Collision Risk Procedures Req.		
4,300.00	4,281.14	4,296.10	4,276.55	16.09	16.19	-61.66	335.47	-64.39	66.97	35.22	31.75	2.109		
4,400.00	4,381.14	4,395.34	4,375.04	16.43	16.60	-55.31	347.53	-66.46	75.02	42.76	32.27	2.325		
4,500.00	4,481.14	4,494.58	4,473.52	16.76	17.01	-49.32	359.60	-68.52	84.15	51.34	32.81	2.565		
4,600.00	4,581.14	4,593.82	4,572.00	17.10	17.43	-44.54	371.66	-70.59	94.01	60.62	33.39	2.815		
4,700.00	4,681.14	4,693.83	4,671.26	17.44	17.84	-40.68	383.72	-72.66	104.30	70.29	34.01	3.067		
4,800.00	4,781.14	4,796.76	4,773.70	17.78	18.25	-38.06	393.55	-74.34	112.74	78.05	34.69	3.250		
4,900.00	4,881.14	4,900.28	4,877.02	18.12	18.63	-36.61	399.77	-75.40	118.14	82.78	35.37	3.341		
5,000.00	4,981.14	5,004.11	4,980.82	18.46	18.99	-36.05	402.31	-75.84	120.36	84.33	36.03	3.341		

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 132H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,081.14	5,104.84	5,081.54	18.80	19.33	-36.04	402.37	-75.85	120.42	83.70	36.72	3.279		
5,200.00	5,181.14	5,204.84	5,181.54	19.14	19.66	-36.04	402.37	-75.85	120.42	83.00	37.42	3.218		
5,300.00	5,281.14	5,304.84	5,281.54	19.48	19.99	-36.04	402.37	-75.85	120.42	82.30	38.12	3.159		
5,400.00	5,381.14	5,404.84	5,381.54	19.82	20.33	-36.04	402.37	-75.85	120.42	81.60	38.82	3.102		
5,500.00	5,481.14	5,504.84	5,481.54	20.17	20.66	-36.04	402.37	-75.85	120.42	80.90	39.52	3.047		
5,600.00	5,581.14	5,604.84	5,581.54	20.51	21.00	-36.04	402.37	-75.85	120.42	80.20	40.22	2.994		
5,700.00	5,681.14	5,704.84	5,681.54	20.86	21.33	-36.04	402.37	-75.85	120.42	79.50	40.92	2.943		
5,800.00	5,781.14	5,804.84	5,781.54	21.20	21.67	-36.04	402.37	-75.85	120.42	78.79	41.63	2.893		
5,900.00	5,881.14	5,904.84	5,881.54	21.55	22.01	-36.04	402.37	-75.85	120.42	78.09	42.33	2.845		
6,000.00	5,981.14	6,004.84	5,981.54	21.89	22.35	-36.04	402.37	-75.85	120.42	77.39	43.03	2.798		
6,100.00	6,081.14	6,104.84	6,081.54	22.24	22.68	-36.04	402.37	-75.85	120.42	76.68	43.74	2.753		
6,200.00	6,181.14	6,204.84	6,181.54	22.58	23.02	-36.04	402.37	-75.85	120.42	75.98	44.44	2.710		
6,300.00	6,281.14	6,304.84	6,281.54	22.93	23.36	-36.04	402.37	-75.85	120.42	75.27	45.14	2.667		
6,400.00	6,381.14	6,404.84	6,381.54	23.28	23.70	-36.04	402.37	-75.85	120.42	74.57	45.85	2.626		
6,500.00	6,481.14	6,504.84	6,481.54	23.63	24.04	-36.04	402.37	-75.85	120.42	73.86	46.56	2.587		
6,600.00	6,581.14	6,604.84	6,581.54	23.97	24.39	-36.04	402.37	-75.85	120.42	73.16	47.26	2.548		
6,700.00	6,681.14	6,704.84	6,681.54	24.32	24.73	-36.04	402.37	-75.85	120.42	72.45	47.97	2.510		
6,800.00	6,781.14	6,804.84	6,781.54	24.67	25.07	-36.04	402.37	-75.85	120.42	71.75	48.67	2.474		
6,900.00	6,881.14	6,912.28	6,888.86	25.02	25.43	-34.74	402.37	-72.52	118.71	69.52	49.19	2.413		
7,000.00	6,981.14	7,021.37	6,995.55	25.37	25.76	-25.07	402.36	-50.54	108.40	59.03	49.36	2.196		
7,100.00	7,081.14	7,119.14	7,086.10	25.72	26.03	-5.27	402.36	-13.98	97.88	47.53	50.35	1.944	Collision Risk Procedures Req.	
7,121.62	7,102.76	7,138.43	7,103.16	25.79	26.08	0.01	402.35	-4.98	97.35	46.72	50.63	1.923	Collision Risk Procedures Req.	
7,200.00	7,181.14	7,202.60	7,157.54	26.07	26.25	19.26	402.35	29.02	105.87	55.23	50.64	2.091		
7,300.00	7,281.14	7,271.89	7,211.60	26.42	26.42	38.45	402.34	72.30	142.62	95.01	47.61	2.996		
7,400.00	7,381.14	7,328.78	7,251.82	26.77	26.57	50.37	402.33	112.50	200.27	156.39	43.88	4.564		
7,500.00	7,481.14	7,375.46	7,281.71	27.12	26.74	57.60	402.32	148.34	270.03	229.19	40.84	6.612		
7,600.00	7,581.14	7,413.98	7,304.11	27.47	26.92	62.21	402.31	179.66	347.18	308.68	38.50	9.017		
7,700.00	7,681.14	7,450.00	7,323.11	27.82	27.13	65.68	402.30	210.26	429.27	392.31	36.97	11.612		
7,800.00	7,781.14	7,472.95	7,334.20	28.17	27.30	67.54	402.30	230.35	514.75	479.43	35.32	14.575		
7,900.00	7,881.06	7,500.00	7,346.23	28.51	27.51	-11.61	402.29	254.58	601.63	567.30	34.33	17.527		
8,000.00	7,979.29	7,523.62	7,355.78	28.85	27.72	-8.31	402.29	276.18	682.82	649.82	33.00	20.689		
8,100.00	8,072.90	7,550.00	7,365.39	29.18	27.97	-6.28	402.28	300.74	756.45	724.75	31.70	23.863		
8,200.00	8,159.04	7,584.52	7,376.23	29.51	28.33	-4.86	402.27	333.51	821.58	790.95	30.63	26.820		
8,300.00	8,235.10	7,617.51	7,384.74	29.89	28.71	-3.91	402.27	365.38	877.52	847.97	29.54	29.703		
8,400.00	8,298.76	7,650.00	7,391.31	30.42	29.11	-3.24	402.26	397.19	923.67	895.09	28.57	32.328		
8,500.00	8,348.09	7,700.00	7,397.87	31.16	29.78	-2.59	402.25	446.75	959.80	931.71	28.09	34.169		
8,600.00	8,381.59	7,722.17	7,399.39	32.14	30.10	-2.30	402.24	468.86	984.82	957.36	27.46	35.858		
8,700.00	8,398.24	7,788.70	7,400.84	33.36	31.13	-1.76	402.23	535.38	998.50	970.96	27.54	36.255		
8,800.00	8,401.12	7,888.01	7,402.56	34.79	32.84	-1.13	402.20	634.67	999.34	971.41	27.93	35.775		
8,900.00	8,402.86	7,987.67	7,404.28	36.41	34.75	-0.69	402.18	734.31	999.22	970.78	28.44	35.137		
9,000.00	8,404.61	8,087.55	7,406.01	38.22	36.82	-0.46	402.16	834.18	999.18	970.13	29.05	34.400		
9,072.82	8,405.87	8,160.35	7,407.27	39.64	38.44	-0.39	402.14	906.97	999.18	969.62	29.55	33.808		
9,100.00	8,406.34	8,187.54	7,407.74	40.18	39.04	-0.41	402.13	934.15	999.18	969.43	29.75	33.585		
9,200.00	8,408.08	8,287.54	7,409.47	42.27	41.38	-0.40	402.11	1,034.13	999.18	968.65	30.53	32.730		
9,300.00	8,409.82	8,387.54	7,411.21	44.49	43.82	-0.39	402.09	1,134.12	999.19	967.82	31.36	31.858		
9,400.00	8,411.56	8,487.54	7,412.94	46.81	46.34	-0.38	402.06	1,234.10	999.19	966.94	32.25	30.978		
9,500.00	8,413.29	8,587.54	7,414.67	49.22	48.93	-0.37	402.04	1,334.09	999.19	966.00	33.19	30.101		
9,600.00	8,415.03	8,687.54	7,416.40	51.71	51.58	-0.36	402.02	1,434.07	999.20	965.02	34.18	29.232		
9,700.00	8,416.77	8,787.54	7,418.13	54.27	54.28	-0.35	401.99	1,534.06	999.20	963.99	35.21	28.379		
9,800.00	8,418.50	8,887.53	7,419.86	56.88	57.03	-0.34	401.97	1,634.04	999.21	962.93	36.28	27.544		
9,900.00	8,420.24	8,987.53	7,421.60	59.54	59.81	-0.33	401.95	1,734.03	999.21	961.83	37.38	26.732		
10,000.00	8,421.98	9,087.53	7,423.33	62.25	62.62	-0.32	401.92	1,834.01	999.22	960.70	38.51	25.945		

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 132H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft	
Survey Program:		O-MWD+IGRF		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,100.00	8,423.71	9,187.53	7,425.06	64.99	65.47	-0.31	401.90	1,934.00	999.22	959.54	39.68	25.185			
10,200.00	8,425.45	9,287.53	7,426.79	67.77	68.34	-0.30	401.88	2,033.98	999.22	958.36	40.87	24.451			
10,300.00	8,427.19	9,387.53	7,428.52	70.58	71.23	-0.29	401.85	2,133.97	999.23	957.15	42.08	23.745			
10,400.00	8,428.93	9,487.53	7,430.25	73.41	74.14	-0.28	401.83	2,233.95	999.23	955.91	43.32	23.067			
10,500.00	8,430.66	9,587.53	7,431.99	76.27	77.07	-0.27	401.81	2,333.94	999.24	954.66	44.58	22.416			
10,600.00	8,432.40	9,687.53	7,433.72	79.14	80.01	-0.26	401.78	2,433.92	999.24	953.39	45.85	21.792			
10,700.00	8,434.14	9,787.53	7,435.45	82.04	82.97	-0.25	401.76	2,533.91	999.25	952.10	47.15	21.194			
10,800.00	8,435.87	9,887.53	7,437.18	84.95	85.94	-0.24	401.74	2,633.89	999.25	950.79	48.46	20.620			
10,900.00	8,437.61	9,987.53	7,438.91	87.88	88.91	-0.23	401.71	2,733.88	999.26	949.47	49.78	20.071			
11,000.00	8,439.35	10,087.53	7,440.64	90.82	91.90	-0.22	401.69	2,833.86	999.26	948.14	51.12	19.546			
11,100.00	8,441.08	10,187.53	7,442.37	93.77	94.90	-0.21	401.67	2,933.85	999.27	946.79	52.48	19.042			
11,200.00	8,442.82	10,287.53	7,444.11	96.73	97.91	-0.20	401.64	3,033.83	999.27	945.43	53.84	18.560			
11,300.00	8,444.56	10,387.53	7,445.84	99.71	100.92	-0.19	401.62	3,133.82	999.27	944.06	55.21	18.098			
11,400.00	8,446.29	10,487.53	7,447.57	102.69	103.95	-0.18	401.60	3,233.80	999.28	942.68	56.60	17.656			
11,500.00	8,448.03	10,587.53	7,449.30	105.68	106.97	-0.17	401.57	3,333.79	999.28	941.29	57.99	17.231			
11,600.00	8,449.77	10,687.53	7,451.03	108.68	110.01	-0.16	401.55	3,433.77	999.29	939.89	59.39	16.825			
11,700.00	8,451.51	10,787.53	7,452.76	111.69	113.04	-0.15	401.53	3,533.76	999.29	938.49	60.80	16.435			
11,800.00	8,453.24	10,887.53	7,454.50	114.70	116.09	-0.14	401.50	3,633.74	999.30	937.08	62.22	16.060			
11,900.00	8,454.98	10,987.53	7,456.23	117.72	119.14	-0.13	401.48	3,733.73	999.30	935.66	63.65	15.701			
12,000.00	8,456.72	11,087.53	7,457.96	120.74	122.19	-0.12	401.46	3,833.71	999.31	934.23	65.08	15.355			
12,100.00	8,458.45	11,187.53	7,459.69	123.77	125.24	-0.10	401.44	3,933.70	999.31	932.80	66.52	15.024			
12,200.00	8,460.19	11,287.53	7,461.42	126.81	128.30	-0.09	401.41	4,033.68	999.32	931.36	67.96	14.705			
12,300.00	8,461.93	11,387.53	7,463.15	129.85	131.36	-0.08	401.39	4,133.66	999.32	929.92	69.41	14.398			
12,400.00	8,463.66	11,487.53	7,464.89	132.89	134.43	-0.07	401.37	4,233.65	999.33	928.47	70.86	14.102			
12,500.00	8,465.40	11,587.53	7,466.62	135.94	137.50	-0.06	401.34	4,333.63	999.33	927.01	72.32	13.818			
12,600.00	8,467.14	11,687.53	7,468.35	138.99	140.57	-0.05	401.32	4,433.62	999.34	925.55	73.78	13.544			
12,700.00	8,468.87	11,787.53	7,470.08	142.04	143.64	-0.04	401.30	4,533.60	999.34	924.09	75.25	13.280			
12,800.00	8,470.61	11,887.53	7,471.81	145.10	146.72	-0.03	401.27	4,633.59	999.35	922.63	76.72	13.025			
12,900.00	8,472.35	11,987.53	7,473.54	148.16	149.80	-0.02	401.25	4,733.57	999.35	921.16	78.20	12.780			
13,000.00	8,474.09	12,087.53	7,475.27	151.22	152.88	-0.01	401.23	4,833.56	999.36	919.68	79.68	12.543			
13,100.00	8,475.82	12,187.53	7,477.01	154.29	155.96	0.00	401.20	4,933.54	999.37	918.21	81.16	12.314			
13,200.00	8,477.56	12,287.53	7,478.74	157.36	159.04	0.01	401.18	5,033.53	999.37	916.73	82.64	12.092			
13,300.00	8,479.30	12,387.53	7,480.47	160.43	162.13	0.02	401.16	5,133.51	999.38	915.24	84.13	11.879			
13,400.00	8,481.03	12,487.53	7,482.20	163.50	165.22	0.03	401.13	5,233.50	999.38	913.76	85.62	11.672			
13,500.00	8,482.77	12,587.53	7,483.93	166.57	168.31	0.04	401.11	5,333.48	999.39	912.27	87.12	11.472			
13,600.00	8,484.51	12,687.53	7,485.66	169.65	171.40	0.05	401.09	5,433.47	999.39	910.78	88.61	11.278			
13,700.00	8,486.24	12,787.53	7,487.40	172.73	174.49	0.06	401.06	5,533.45	999.40	909.28	90.11	11.090			
13,800.00	8,487.98	12,887.53	7,489.13	175.81	177.58	0.07	401.04	5,633.44	999.40	907.79	91.62	10.909			
13,900.00	8,489.72	12,987.53	7,490.86	178.89	180.68	0.08	401.02	5,733.42	999.41	906.29	93.12	10.733			
13,973.85	8,491.00	13,061.38	7,492.14	180.39	182.96	0.09	400.99	5,807.27	999.41	905.46	93.96	10.637			

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 211H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF													Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	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	
0.00	0.00	0.50	0.50	0.50	0.50	149.53	-17.00	10.00	19.72					
100.00	100.00	100.50	100.50	0.52	0.52	149.53	-17.00	10.00	19.72	18.69	1.04	19.038		
200.00	200.00	200.50	200.50	0.70	0.70	149.53	-17.00	10.00	19.72	18.32	1.41	14.033		
300.00	300.00	300.50	300.50	0.99	0.99	149.53	-17.00	10.00	19.72	17.75	1.98	9.980		
400.00	400.00	400.50	400.50	1.31	1.31	149.53	-17.00	10.00	19.72	17.10	2.62	7.528		
500.00	500.00	500.50	500.50	1.65	1.65	149.53	-17.00	10.00	19.72	16.43	3.29	5.988		
600.00	600.00	600.50	600.50	1.99	1.99	149.53	-17.00	10.00	19.72	15.74	3.98	4.952		
700.00	700.00	700.50	700.50	2.34	2.34	149.53	-17.00	10.00	19.72	15.04	4.68	4.214		
800.00	800.00	800.50	800.50	2.69	2.69	149.53	-17.00	10.00	19.72	14.34	5.38	3.664		
900.00	900.00	900.50	900.50	3.04	3.05	149.53	-17.00	10.00	19.72	13.63	6.09	3.239		
1,000.00	1,000.00	1,000.50	1,000.50	3.40	3.40	149.53	-17.00	10.00	19.72	12.93	6.80	2.902		
1,100.00	1,100.00	1,100.50	1,100.50	3.75	3.75	149.53	-17.00	10.00	19.72	12.22	7.51	2.627		
1,200.00	1,200.00	1,200.50	1,200.50	4.11	4.11	149.53	-17.00	10.00	19.72	11.50	8.22	2.400		
1,300.00	1,300.00	1,300.50	1,300.50	4.46	4.47	149.53	-17.00	10.00	19.72	10.79	8.93	2.209		
1,400.00	1,400.00	1,400.50	1,400.50	4.82	4.82	149.53	-17.00	10.00	19.72	10.08	9.64	2.045		
1,500.00	1,500.00	1,500.50	1,500.50	5.18	5.18	149.53	-17.00	10.00	19.72	9.37	10.36	1.904	Collision Risk Procedures Req.	
1,600.00	1,600.00	1,600.50	1,600.50	5.53	5.54	149.53	-17.00	10.00	19.72	8.65	11.07	1.782	Collision Risk Procedures Req.	
1,601.80	1,601.80	1,602.31	1,602.31	5.54	5.54	147.53	-17.00	10.00	19.72	8.64	11.08	1.780	Collision Risk Procedures Req., CC	
1,700.00	1,699.98	1,700.95	1,700.93	5.89	5.89	146.39	-15.31	10.56	20.04	8.25	11.78	1.700	Collision Risk Procedures Req., ES	
1,800.00	1,799.84	1,801.39	1,801.22	6.25	6.25	143.24	-10.29	12.24	21.04	8.55	12.49	1.684	Collision Risk Procedures Req., SF	
1,900.00	1,899.45	1,901.79	1,901.23	6.61	6.61	140.06	-1.94	15.03	22.88	9.68	13.20	1.734	Collision Risk Procedures Req.	
2,000.00	1,998.72	2,001.84	2,000.63	6.97	6.97	136.97	8.89	18.64	26.29	12.37	13.93	1.888	Collision Risk Procedures Req.	
2,100.00	2,097.87	2,101.74	2,099.86	7.34	7.34	134.36	19.85	22.30	30.51	15.85	14.66	2.081		
2,200.00	2,197.02	2,201.64	2,199.09	7.72	7.72	132.39	30.81	25.96	34.78	19.38	15.40	2.258		
2,300.00	2,296.17	2,301.55	2,298.32	8.10	8.09	130.84	41.78	29.62	39.08	22.92	16.15	2.419		
2,400.00	2,395.32	2,401.45	2,397.55	8.49	8.47	129.61	52.74	33.28	43.40	26.49	16.91	2.567		
2,500.00	2,494.47	2,501.35	2,496.79	8.88	8.86	128.60	63.70	36.94	47.74	30.06	17.67	2.701		
2,600.00	2,593.62	2,601.25	2,596.02	9.27	9.24	127.75	74.66	40.59	52.09	33.65	18.44	2.825		
2,700.00	2,692.78	2,701.16	2,695.25	9.67	9.63	127.04	85.62	44.25	56.45	37.23	19.21	2.938		
2,800.00	2,791.93	2,801.06	2,794.48	10.07	10.02	126.43	96.58	47.91	60.81	40.82	19.99	3.042		
2,900.00	2,891.08	2,900.96	2,893.71	10.47	10.41	125.90	107.55	51.57	65.19	44.41	20.77	3.138		
3,000.00	2,990.23	3,000.86	2,992.95	10.87	10.81	125.44	118.51	55.23	69.56	48.01	21.56	3.227		
3,100.00	3,089.38	3,100.77	3,092.18	11.28	11.20	125.03	129.47	58.89	73.95	51.60	22.35	3.309		
3,200.00	3,188.53	3,200.67	3,191.41	11.68	11.60	124.67	140.43	62.55	78.33	55.20	23.14	3.386		
3,300.00	3,287.68	3,300.57	3,290.64	12.09	12.00	124.35	151.39	66.21	82.72	58.79	23.93	3.457		
3,400.00	3,386.83	3,400.48	3,389.88	12.50	12.40	124.06	162.35	69.87	87.11	62.39	24.72	3.523		
3,500.00	3,485.98	3,500.38	3,489.11	12.91	12.80	123.79	173.32	73.52	91.50	65.98	25.52	3.585		
3,600.00	3,585.13	3,600.28	3,588.34	13.32	13.20	123.56	184.28	77.18	95.90	69.58	26.32	3.643		
3,700.00	3,684.28	3,700.18	3,687.57	13.74	13.60	123.34	195.24	80.84	100.29	73.17	27.12	3.698		
3,800.00	3,783.43	3,800.09	3,786.80	14.15	14.00	123.14	206.20	84.50	104.69	76.77	27.92	3.749		
3,900.00	3,882.58	3,899.99	3,886.04	14.56	14.40	122.96	217.16	88.16	109.09	80.36	28.73	3.797		
4,000.00	3,981.80	3,999.90	3,985.27	14.98	14.81	122.60	228.13	91.82	113.21	83.67	29.54	3.833		
4,100.00	4,081.35	4,099.81	4,084.51	15.37	15.21	120.96	239.09	95.48	115.69	85.34	30.35	3.812		
4,200.00	4,181.17	4,199.60	4,183.64	15.74	15.61	117.89	250.04	99.13	116.59	85.42	31.17	3.741		
4,300.00	4,281.14	4,299.16	4,282.52	16.09	16.02	113.30	260.96	102.78	116.41	84.43	31.98	3.640		
4,371.52	4,352.66	4,370.23	4,353.12	16.33	16.31	109.39	268.76	105.38	116.26	83.71	32.55	3.572		
4,400.00	4,381.14	4,398.49	4,381.19	16.43	16.42	106.56	271.86	106.42	116.24	83.47	32.77	3.547		
4,500.00	4,481.14	4,497.82	4,479.85	16.76	16.83	100.94	282.76	110.05	117.20	83.67	33.53	3.495		
4,600.00	4,581.14	4,597.15	4,578.52	17.10	17.23	95.46	293.66	113.69	119.27	85.01	34.26	3.481		
4,700.00	4,681.14	4,696.48	4,677.18	17.44	17.63	90.21	304.56	117.33	122.41	87.45	34.96	3.501		
4,800.00	4,781.14	4,795.81	4,775.84	17.78	18.04	85.26	315.46	120.97	126.53	90.89	35.64	3.550		
4,900.00	4,881.14	4,895.14	4,874.50	18.12	18.44	80.64	326.35	124.61	131.55	95.24	36.30	3.624		

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 211H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF												Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Distance		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	
5,000.00	4,981.14	4,994.46	4,973.16	18.46	18.85	76.39	337.25	128.24	137.35	100.40	36.95	3.717	
5,100.00	5,081.14	5,093.79	5,071.83	18.80	19.25	72.50	348.15	131.88	143.86	106.26	37.59	3.827	
5,200.00	5,181.14	5,193.12	5,170.49	19.14	19.66	68.96	359.05	135.52	150.97	112.73	38.24	3.948	
5,300.00	5,281.14	5,292.45	5,269.15	19.48	20.06	65.75	369.95	139.16	158.60	119.73	38.88	4.080	
5,400.00	5,381.14	5,391.78	5,367.81	19.82	20.47	62.83	380.85	142.79	166.70	127.17	39.52	4.218	
5,500.00	5,481.14	5,491.11	5,466.47	20.17	20.88	60.19	391.75	146.43	175.18	135.01	40.17	4.361	
5,600.00	5,581.14	5,590.44	5,565.14	20.51	21.28	57.80	402.64	150.07	183.99	143.17	40.82	4.507	
5,700.00	5,681.14	5,689.77	5,663.80	20.86	21.69	55.63	413.54	153.71	193.10	151.62	41.48	4.656	
5,800.00	5,781.14	5,789.09	5,762.46	21.20	22.10	53.66	424.44	157.35	202.46	160.32	42.14	4.804	
5,900.00	5,881.14	5,888.42	5,861.12	21.55	22.50	51.86	435.34	160.98	212.04	169.23	42.81	4.953	
6,000.00	5,981.14	5,987.75	5,959.78	21.89	22.91	50.22	446.24	164.62	221.81	178.33	43.48	5.102	
6,100.00	6,081.14	6,087.08	6,058.45	22.24	23.32	48.71	457.14	168.26	231.74	187.59	44.15	5.249	
6,200.00	6,181.14	6,186.41	6,157.11	22.58	23.73	47.33	468.04	171.90	241.82	196.99	44.83	5.394	
6,300.00	6,281.14	6,293.13	6,263.28	22.93	24.15	46.14	478.26	175.31	250.73	205.15	45.58	5.501	
6,400.00	6,381.14	6,401.46	6,371.38	23.28	24.56	45.42	484.81	177.50	256.40	210.09	46.31	5.537	
6,500.00	6,481.14	6,510.15	6,480.03	23.63	24.93	45.14	487.48	178.39	258.72	211.72	47.00	5.505	
6,600.00	6,581.14	6,611.76	6,581.64	23.97	25.27	45.13	487.55	178.41	258.77	211.09	47.69	5.426	
6,700.00	6,681.14	6,711.76	6,681.64	24.32	25.60	45.13	487.55	178.41	258.77	210.39	48.39	5.348	
6,800.00	6,781.14	6,811.76	6,781.64	24.67	25.93	45.13	487.55	178.41	258.77	209.69	49.09	5.272	
6,900.00	6,881.14	6,911.76	6,881.64	25.02	26.26	45.13	487.55	178.41	258.77	208.99	49.79	5.198	
7,000.00	6,981.14	7,011.76	6,981.64	25.37	26.59	45.13	487.55	178.41	258.77	208.29	50.49	5.126	
7,100.00	7,081.14	7,111.76	7,081.64	25.72	26.92	45.13	487.55	178.41	258.77	207.59	51.19	5.055	
7,200.00	7,181.14	7,211.76	7,181.64	26.07	27.26	45.13	487.55	178.41	258.77	206.89	51.89	4.987	
7,300.00	7,281.14	7,311.76	7,281.64	26.42	27.59	45.13	487.55	178.41	258.77	206.18	52.59	4.921	
7,400.00	7,381.14	7,411.76	7,381.64	26.77	27.92	45.13	487.55	178.41	258.77	205.48	53.29	4.856	
7,500.00	7,481.14	7,511.76	7,481.64	27.12	28.26	45.13	487.55	178.41	258.77	204.78	53.99	4.793	
7,600.00	7,581.14	7,611.76	7,581.64	27.47	28.59	45.13	487.55	178.41	258.77	204.08	54.70	4.731	
7,700.00	7,681.14	7,711.76	7,681.64	27.82	28.93	45.13	487.55	178.41	258.77	203.37	55.40	4.671	
7,800.00	7,781.14	7,811.76	7,781.64	28.17	29.27	45.13	487.55	178.41	258.77	202.67	56.10	4.612	
7,900.00	7,881.06	7,911.68	7,881.56	28.51	29.60	-38.34	487.55	178.41	256.77	199.98	56.79	4.522	
8,000.00	7,979.29	8,009.92	7,979.79	28.85	29.93	-41.89	487.55	178.41	242.86	185.48	57.38	4.232	
8,100.00	8,072.90	8,103.52	8,073.40	29.18	30.25	-49.74	487.55	178.41	217.72	159.85	57.87	3.762	
8,200.00	8,159.04	8,189.66	8,159.54	29.51	30.54	-63.22	487.55	178.41	186.83	128.51	58.32	3.204	
8,300.00	8,235.10	8,265.72	8,235.60	29.89	30.80	-81.54	487.55	178.41	162.36	103.26	59.10	2.747	
8,345.49	8,265.72	8,296.35	8,266.22	30.12	30.90	-90.00	487.55	178.41	158.84	99.08	59.76	2.658	
8,400.00	8,298.76	8,329.38	8,299.26	30.42	31.01	-98.80	487.55	178.41	164.64	103.97	60.67	2.714	
8,500.00	8,348.09	8,378.71	8,348.59	31.16	31.18	-108.84	487.55	178.41	205.36	143.36	62.00	3.312	
8,600.00	8,381.59	8,412.21	8,382.09	32.14	31.30	-109.59	487.55	178.41	274.81	212.29	62.52	4.396	
8,700.00	8,398.24	8,428.87	8,398.74	33.36	31.35	-99.25	487.55	178.41	359.70	297.07	62.63	5.743	
8,800.00	8,401.12	8,431.74	8,401.62	34.79	31.36	-92.84	487.55	178.41	451.78	389.17	62.60	7.217	
8,900.00	8,402.86	8,433.49	8,403.36	36.41	31.37	-93.97	487.55	178.41	547.55	484.99	62.57	8.751	
9,000.00	8,404.61	8,435.23	8,405.11	38.22	31.37	-95.59	487.55	178.41	645.33	582.78	62.55	10.318	
9,100.00	8,406.34	8,436.97	8,406.84	40.18	31.38	-97.79	487.55	178.41	744.22	681.68	62.54	11.900	
9,200.00	8,408.08	8,438.70	8,408.58	42.27	31.38	-98.83	487.55	178.41	843.50	780.96	62.54	13.488	
9,300.00	8,409.82	8,440.44	8,410.32	44.49	31.39	-99.87	487.55	178.41	942.93	880.39	62.54	15.077	
9,400.00	8,411.56	8,442.18	8,412.06	46.81	31.40	-100.89	487.55	178.41	1,042.47	979.92	62.55	16.667	
9,500.00	8,413.29	8,443.92	8,413.79	49.22	31.40	-101.91	487.55	178.41	1,142.08	1,079.53	62.55	18.257	
9,600.00	8,415.03	10,643.27	9,652.61	51.71	51.16	-179.69	402.42	1,393.07	1,237.32	1,199.48	37.84	32.695	
9,700.00	8,416.77	10,743.26	9,654.52	54.27	53.49	-179.70	402.32	1,493.05	1,237.50	1,198.81	38.69	31.983	
9,800.00	8,418.50	10,843.26	9,656.44	56.88	55.90	-179.71	402.22	1,593.03	1,237.68	1,198.09	39.58	31.267	
9,900.00	8,420.24	10,943.26	9,658.36	59.54	58.37	-179.72	402.12	1,693.01	1,237.86	1,197.34	40.52	30.552	
10,000.00	8,421.98	11,043.26	9,660.27	62.25	60.91	-179.74	402.02	1,792.99	1,238.04	1,196.55	41.49	29.841	

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 211H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft	
Survey Program:		O-MWD+IGRF						Rule Assigned:						Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				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			
10,100.00	8,423.71	11,143.26	9,662.19	64.99	63.50	-179.75	401.92	1,892.97	1,238.21	1,195.72	42.49	29.139			
10,200.00	8,425.45	11,243.26	9,664.11	67.77	66.14	-179.76	401.82	1,992.95	1,238.39	1,194.86	43.53	28.447			
10,300.00	8,427.19	11,343.26	9,666.02	70.58	68.81	-179.77	401.73	2,092.93	1,238.57	1,193.97	44.60	27.769			
10,400.00	8,428.93	11,443.26	9,667.94	73.41	71.53	-179.78	401.63	2,192.91	1,238.75	1,193.05	45.70	27.105			
10,500.00	8,430.66	11,543.26	9,669.85	76.27	74.28	-179.79	401.53	2,292.90	1,238.93	1,192.10	46.83	26.458			
10,600.00	8,432.40	11,643.26	9,671.77	79.14	77.05	-179.81	401.43	2,392.88	1,239.11	1,191.13	47.98	25.827			
10,700.00	8,434.14	11,743.26	9,673.69	82.04	79.86	-179.82	401.33	2,492.86	1,239.28	1,190.14	49.15	25.214			
10,800.00	8,435.87	11,843.26	9,675.60	84.95	82.68	-179.83	401.23	2,592.84	1,239.46	1,189.12	50.34	24.620			
10,900.00	8,437.61	11,943.26	9,677.52	87.88	85.53	-179.84	401.13	2,692.82	1,239.64	1,188.08	51.56	24.043			
11,000.00	8,439.35	12,043.26	9,679.44	90.82	88.40	-179.85	401.03	2,792.80	1,239.82	1,187.03	52.79	23.485			
11,100.00	8,441.08	12,143.26	9,681.35	93.77	91.28	-179.86	400.94	2,892.78	1,240.00	1,185.96	54.04	22.945			
11,200.00	8,442.82	12,243.26	9,683.27	96.73	94.18	-179.88	400.84	2,992.76	1,240.18	1,184.87	55.31	22.422			
11,300.00	8,444.56	12,343.26	9,685.19	99.71	97.09	-179.89	400.74	3,092.74	1,240.36	1,183.77	56.59	21.918			
11,400.00	8,446.29	12,443.26	9,687.10	102.69	100.02	-179.90	400.64	3,192.73	1,240.54	1,182.65	57.89	21.430			
11,500.00	8,448.03	12,543.26	9,689.02	105.68	102.96	-179.91	400.54	3,292.71	1,240.72	1,181.52	59.20	20.959			
11,600.00	8,449.77	12,643.26	9,690.93	108.68	105.91	-179.92	400.44	3,392.69	1,240.90	1,180.38	60.52	20.504			
11,700.00	8,451.51	12,743.26	9,692.85	111.69	108.87	-179.93	400.34	3,492.67	1,241.07	1,179.22	61.85	20.065			
11,800.00	8,453.24	12,843.26	9,694.77	114.70	111.84	-179.95	400.25	3,592.65	1,241.25	1,178.06	63.20	19.641			
11,900.00	8,454.98	12,943.26	9,696.68	117.72	114.82	-179.96	400.15	3,692.63	1,241.43	1,176.88	64.55	19.232			
12,000.00	8,456.72	13,043.26	9,698.60	120.74	117.80	-179.97	400.05	3,792.61	1,241.61	1,175.70	65.91	18.837			
12,100.00	8,458.45	13,143.26	9,700.52	123.77	120.79	-179.98	399.95	3,892.59	1,241.79	1,174.50	67.29	18.455			
12,200.00	8,460.19	13,243.26	9,702.43	126.81	123.79	-179.99	399.85	3,992.57	1,241.97	1,173.30	68.67	18.086			
12,300.00	8,461.93	13,343.26	9,704.35	129.85	126.80	-180.00	399.75	4,092.56	1,242.15	1,172.09	70.06	17.730			
12,400.00	8,463.66	13,443.26	9,706.27	132.89	129.81	-179.98	399.65	4,192.54	1,242.33	1,170.88	71.46	17.386			
12,500.00	8,465.40	13,543.26	9,708.18	135.94	132.83	-179.97	399.55	4,292.52	1,242.51	1,169.65	72.86	17.054			
12,600.00	8,467.14	13,643.26	9,710.10	138.99	135.85	-179.96	399.46	4,392.50	1,242.69	1,168.42	74.27	16.732			
12,700.00	8,468.87	13,743.26	9,712.02	142.04	138.88	-179.95	399.36	4,492.48	1,242.87	1,167.18	75.69	16.421			
12,800.00	8,470.61	13,843.26	9,713.93	145.10	141.91	-179.94	399.26	4,592.46	1,243.05	1,165.94	77.11	16.120			
12,900.00	8,472.35	13,943.26	9,715.85	148.16	144.94	-179.93	399.16	4,692.44	1,243.23	1,164.69	78.54	15.829			
13,000.00	8,474.09	14,043.26	9,717.76	151.22	147.98	-179.91	399.06	4,792.42	1,243.41	1,163.44	79.97	15.548			
13,100.00	8,475.82	14,143.26	9,719.68	154.29	151.03	-179.90	398.96	4,892.40	1,243.59	1,162.18	81.41	15.275			
13,200.00	8,477.56	14,243.26	9,721.60	157.36	154.07	-179.89	398.86	4,992.39	1,243.77	1,160.91	82.86	15.011			
13,300.00	8,479.30	14,343.26	9,723.51	160.43	157.12	-179.88	398.77	5,092.37	1,243.95	1,159.64	84.31	14.755			
13,400.00	8,481.03	14,443.26	9,725.43	163.50	160.18	-179.87	398.67	5,192.35	1,244.13	1,158.37	85.76	14.507			
13,500.00	8,482.77	14,543.26	9,727.35	166.57	163.23	-179.86	398.57	5,292.33	1,244.31	1,157.09	87.22	14.267			
13,600.00	8,484.51	14,643.26	9,729.26	169.65	166.29	-179.84	398.47	5,392.31	1,244.49	1,155.81	88.68	14.034			
13,700.00	8,486.24	14,743.26	9,731.18	172.73	169.35	-179.83	398.37	5,492.29	1,244.67	1,154.53	90.14	13.808			
13,800.00	8,487.98	14,843.26	9,733.10	175.81	172.42	-179.82	398.27	5,592.27	1,244.85	1,153.24	91.61	13.588			
13,900.00	8,489.72	14,943.24	9,735.01	178.89	175.48	-179.81	398.17	5,692.25	1,245.03	1,151.95	93.08	13.375			
13,973.85	8,491.00	15,017.10	9,736.43	180.39	177.75	-179.80	398.10	5,766.09	1,245.16	1,151.26	93.90	13.260			

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 231H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF												Offset Well Error:	0.50 usft
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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.50	0.50	150.50	-34.95	19.77	40.16				
100.00	100.00	99.20	99.20	0.52	0.52	150.50	-34.95	19.77	40.15	39.12	1.04	38.788	
200.00	200.00	199.20	199.20	0.70	0.70	150.50	-34.95	19.77	40.15	38.75	1.40	28.637	
300.00	300.00	299.20	299.20	0.99	0.98	150.50	-34.95	19.77	40.15	38.18	1.97	20.360	
400.00	400.00	399.20	399.20	1.31	1.31	150.50	-34.95	19.77	40.15	37.54	2.62	15.352	
500.00	500.00	499.20	499.20	1.65	1.64	150.50	-34.95	19.77	40.15	36.86	3.29	12.207	
600.00	600.00	599.20	599.20	1.99	1.99	150.50	-34.95	19.77	40.15	36.18	3.98	10.093	
700.00	700.00	699.20	699.20	2.34	2.34	150.50	-34.95	19.77	40.15	35.48	4.68	8.588	
800.00	800.00	799.20	799.20	2.69	2.69	150.50	-34.95	19.77	40.15	34.78	5.38	7.466	
900.00	900.00	899.20	899.20	3.04	3.04	150.50	-34.95	19.77	40.15	34.07	6.08	6.600	
1,000.00	1,000.00	999.20	999.20	3.40	3.39	150.50	-34.95	19.77	40.15	33.36	6.79	5.912	
1,100.00	1,100.00	1,099.20	1,099.20	3.75	3.75	150.50	-34.95	19.77	40.15	32.65	7.50	5.352	
1,200.00	1,200.00	1,199.20	1,199.20	4.11	4.11	150.50	-34.95	19.77	40.15	31.94	8.21	4.889	
1,300.00	1,300.00	1,299.20	1,299.20	4.46	4.46	150.50	-34.95	19.77	40.15	31.23	8.93	4.499	
1,400.00	1,400.00	1,399.20	1,399.20	4.82	4.82	150.50	-34.95	19.77	40.15	30.52	9.64	4.166	
1,500.00	1,500.00	1,499.20	1,499.20	5.18	5.17	150.50	-34.95	19.77	40.15	29.80	10.35	3.879	
1,600.00	1,600.00	1,599.45	1,599.43	5.53	5.53	148.08	-33.80	21.06	39.83	28.76	11.06	3.600	
1,622.29	1,622.29	1,621.78	1,621.74	5.61	5.61	144.92	-33.23	21.70	39.76	28.54	11.22	3.543	CC, ES
1,700.00	1,699.98	1,699.53	1,699.37	5.89	5.88	140.17	-30.33	24.96	40.60	28.83	11.77	3.449	
1,800.00	1,799.84	1,799.35	1,798.81	6.25	6.24	133.26	-24.58	31.41	44.35	31.87	12.48	3.553	
1,900.00	1,899.45	1,899.06	1,898.03	6.61	6.60	130.61	-17.97	38.83	51.03	37.83	13.20	3.865	
2,000.00	1,998.72	1,998.63	1,997.09	6.97	6.96	131.22	-11.38	46.24	60.29	46.37	13.93	4.329	
2,100.00	2,097.87	2,098.13	2,096.10	7.34	7.33	131.15	-4.79	53.64	70.28	55.62	14.66	4.795	
2,200.00	2,197.02	2,197.63	2,195.11	7.72	7.70	131.10	1.81	61.04	80.26	64.87	15.39	5.214	
2,300.00	2,296.17	2,297.13	2,294.11	8.10	8.07	131.06	8.40	68.44	90.25	74.11	16.14	5.592	
2,400.00	2,395.32	2,396.63	2,393.12	8.49	8.45	131.03	14.99	75.84	100.23	83.34	16.89	5.936	
2,500.00	2,494.47	2,496.13	2,492.12	8.88	8.83	131.01	21.58	83.24	110.21	92.57	17.64	6.248	
2,600.00	2,593.62	2,595.63	2,591.13	9.27	9.21	130.98	28.17	90.64	120.20	101.80	18.40	6.534	
2,700.00	2,692.78	2,695.13	2,690.13	9.67	9.59	130.97	34.76	98.04	130.18	111.02	19.16	6.796	
2,800.00	2,791.93	2,794.63	2,789.14	10.07	9.97	130.95	41.35	105.44	140.17	120.25	19.92	7.036	
2,900.00	2,891.08	2,894.13	2,888.14	10.47	10.36	130.94	47.95	112.84	150.15	129.46	20.69	7.258	
3,000.00	2,990.23	2,993.63	2,987.15	10.87	10.74	130.92	54.54	120.25	160.13	138.68	21.46	7.463	
3,100.00	3,089.38	3,093.13	3,086.15	11.28	11.13	130.91	61.13	127.65	170.12	147.89	22.23	7.653	
3,200.00	3,188.53	3,192.63	3,185.16	11.68	11.51	130.90	67.72	135.05	180.10	157.10	23.00	7.830	
3,300.00	3,287.68	3,292.13	3,284.17	12.09	11.90	130.90	74.31	142.45	190.09	166.31	23.78	7.995	
3,400.00	3,386.83	3,391.63	3,383.17	12.50	12.29	130.89	80.90	149.85	200.07	175.52	24.55	8.149	
3,500.00	3,485.98	3,491.13	3,482.18	12.91	12.68	130.88	87.49	157.25	210.06	184.72	25.33	8.292	
3,600.00	3,585.13	3,590.63	3,581.18	13.32	13.07	130.87	94.09	164.65	220.04	193.93	26.11	8.427	
3,700.00	3,684.28	3,690.13	3,680.19	13.74	13.46	130.87	100.68	172.05	230.02	203.13	26.89	8.554	
3,800.00	3,783.43	3,789.63	3,779.19	14.15	13.85	130.86	107.27	179.45	240.01	212.34	27.67	8.673	
3,900.00	3,882.58	3,889.13	3,878.20	14.56	14.24	130.86	113.86	186.85	249.99	221.54	28.46	8.785	
4,000.00	3,981.80	3,988.66	3,977.24	14.98	14.63	130.84	120.45	194.26	259.64	230.40	29.24	8.880	
4,100.00	4,081.35	4,088.33	4,076.41	15.37	15.03	130.36	127.06	201.67	267.25	237.24	30.02	8.904	
4,200.00	4,181.17	4,188.04	4,175.62	15.74	15.42	129.32	133.66	209.09	272.68	241.89	30.78	8.858	
4,300.00	4,281.14	4,287.66	4,274.75	16.09	15.81	127.73	140.26	216.50	276.06	244.52	31.54	8.753	
4,400.00	4,381.14	4,387.17	4,373.76	16.43	16.21	124.64	146.85	223.90	278.29	246.01	32.29	8.620	
4,500.00	4,481.14	4,486.67	4,472.77	16.76	16.60	122.68	153.44	231.30	280.83	247.80	33.03	8.502	
4,600.00	4,581.14	4,586.17	4,571.77	17.10	16.99	120.75	160.04	238.70	283.69	249.92	33.77	8.401	
4,700.00	4,681.14	4,685.68	4,670.78	17.44	17.39	118.86	166.63	246.10	286.86	252.36	34.50	8.314	
4,800.00	4,781.14	4,785.18	4,769.79	17.78	17.78	117.01	173.22	253.50	290.35	255.11	35.23	8.240	
4,900.00	4,881.14	4,884.68	4,868.80	18.12	18.18	115.21	179.81	260.90	294.13	258.16	35.96	8.178	
5,000.00	4,981.14	4,984.18	4,967.81	18.46	18.57	113.46	186.40	268.30	298.19	261.50	36.69	8.127	

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 231H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: C-MWD+IGRF												Offset Well Error:	0.50 usft
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	Warning
5,100.00	5,081.14	5,083.69	5,066.81	18.80	18.97	111.75	192.99	275.70	302.53	265.12	37.41	8.086	
5,200.00	5,181.14	5,183.19	5,165.82	19.14	19.36	110.10	199.59	283.11	307.13	269.00	38.13	8.054	
5,300.00	5,281.14	5,282.69	5,264.83	19.48	19.76	108.49	206.18	290.51	311.98	273.13	38.85	8.031	
5,400.00	5,381.14	5,382.20	5,363.84	19.82	20.15	106.93	212.77	297.91	317.07	277.50	39.56	8.014	
5,500.00	5,481.14	5,481.70	5,462.85	20.17	20.55	105.43	219.36	305.31	322.38	282.11	40.28	8.004	
5,600.00	5,581.14	5,581.20	5,561.85	20.51	20.94	103.97	225.95	312.71	327.92	286.93	40.99	8.000	
5,700.00	5,681.14	5,680.70	5,660.86	20.86	21.34	102.56	232.54	320.11	333.66	291.96	41.70	8.002	
5,800.00	5,781.14	5,783.71	5,763.40	21.20	21.74	101.21	239.09	327.46	339.35	296.92	42.43	7.998	
5,900.00	5,881.14	5,891.34	5,870.80	21.55	22.15	100.30	243.66	332.59	343.25	300.07	43.18	7.950	
6,000.00	5,981.14	5,999.34	5,978.75	21.89	22.53	99.93	245.55	334.71	344.88	300.98	43.90	7.856	
6,100.00	6,081.14	6,100.93	6,080.34	22.24	22.87	99.92	245.60	334.77	344.92	300.33	44.59	7.735	
6,200.00	6,181.14	6,200.93	6,180.34	22.58	23.20	99.92	245.60	334.77	344.92	299.65	45.28	7.618	
6,300.00	6,281.14	6,300.93	6,280.34	22.93	23.54	99.92	245.60	334.77	344.92	298.96	45.96	7.504	
6,400.00	6,381.14	6,400.93	6,380.34	23.28	23.87	99.92	245.60	334.77	344.92	298.27	46.65	7.393	
6,500.00	6,481.14	6,500.93	6,480.34	23.63	24.21	99.92	245.60	334.77	344.92	297.58	47.34	7.286	
6,600.00	6,581.14	6,600.93	6,580.34	23.97	24.55	99.92	245.60	334.77	344.92	296.89	48.03	7.181	
6,700.00	6,681.14	6,700.93	6,680.34	24.32	24.88	99.92	245.60	334.77	344.92	296.20	48.72	7.079	
6,800.00	6,781.14	6,800.93	6,780.34	24.67	25.22	99.92	245.60	334.77	344.92	295.51	49.42	6.980	
6,900.00	6,881.14	6,900.93	6,880.34	25.02	25.56	99.92	245.60	334.77	344.92	294.82	50.11	6.884	
7,000.00	6,981.14	7,000.93	6,980.34	25.37	25.90	99.92	245.60	334.77	344.92	294.12	50.80	6.790	
7,100.00	7,081.14	7,100.93	7,080.34	25.72	26.24	99.92	245.60	334.77	344.92	293.43	51.49	6.698	
7,200.00	7,181.14	7,200.93	7,180.34	26.07	26.58	99.92	245.60	334.77	344.92	292.73	52.19	6.609	
7,300.00	7,281.14	7,300.93	7,280.34	26.42	26.92	99.92	245.60	334.77	344.92	292.04	52.88	6.522	
7,400.00	7,381.14	7,400.93	7,380.34	26.77	27.26	99.92	245.60	334.77	344.92	291.34	53.58	6.438	
7,500.00	7,481.14	7,500.93	7,480.34	27.12	27.60	99.92	245.60	334.77	344.92	290.65	54.28	6.355	
7,600.00	7,581.14	7,600.93	7,580.34	27.47	27.95	99.92	245.60	334.77	344.92	289.95	54.97	6.274	
7,700.00	7,681.14	7,700.93	7,680.34	27.82	28.29	99.92	245.60	334.77	344.92	289.25	55.67	6.196	
7,800.00	7,781.14	7,800.93	7,780.34	28.17	28.63	99.92	245.60	334.77	344.92	288.56	56.37	6.119	
7,900.00	7,881.06	7,900.85	7,880.26	28.51	28.97	17.11	245.60	334.77	342.49	288.43	57.06	6.002	
8,000.00	7,979.29	7,999.08	7,978.49	28.85	29.31	18.60	245.60	334.77	325.29	267.53	57.76	5.632	
8,100.00	8,072.90	8,092.69	8,072.10	29.18	29.63	22.03	245.60	334.77	292.38	233.92	58.46	5.002	
8,200.00	8,159.04	8,178.83	8,158.24	29.51	29.93	28.79	245.60	334.77	245.52	186.37	59.15	4.151	
8,300.00	8,235.10	8,254.88	8,234.30	29.89	30.19	41.90	245.60	334.77	188.31	128.42	59.89	3.144	
8,400.00	8,298.76	8,318.54	8,297.96	30.42	30.41	65.01	245.60	334.77	129.85	69.05	60.80	2.136	
8,495.04	8,346.00	8,365.79	8,345.20	31.12	30.57	89.99	245.60	334.77	100.36	39.08	61.29	1.638 Collision Risk Procedures Req., SF	
8,500.00	8,348.09	8,367.87	8,347.29	31.16	30.58	91.06	245.60	334.77	100.46	39.21	61.25	1.640 Collision Risk Procedures Req.	
8,600.00	8,381.59	8,401.37	8,380.79	32.14	30.70	103.90	245.60	334.77	140.66	80.33	60.32	2.332	
8,700.00	8,398.24	8,418.03	8,397.44	33.36	30.75	98.94	245.60	334.77	221.11	161.09	60.02	3.684	
8,800.00	8,401.12	8,420.90	8,400.32	34.79	30.76	92.77	245.60	334.77	313.23	253.27	59.96	5.224	
8,900.00	8,402.86	8,422.65	8,402.06	36.41	30.77	93.30	245.60	334.77	408.22	348.26	59.96	6.808	
9,000.00	8,404.61	8,424.39	8,403.81	38.22	30.78	93.63	245.60	334.77	504.33	444.35	59.98	8.408	
9,100.00	8,406.34	8,426.13	8,405.54	40.18	30.78	93.90	245.60	334.77	600.94	540.92	60.02	10.013	
9,200.00	8,408.08	8,427.87	8,407.28	42.27	30.79	94.56	245.60	334.77	698.26	638.21	60.05	11.627	
9,300.00	8,409.82	8,429.60	8,409.02	44.49	30.79	95.23	245.60	334.77	796.24	736.15	60.09	13.251	
9,400.00	8,411.56	8,431.34	8,410.76	46.81	30.80	95.89	245.60	334.77	894.67	834.54	60.12	14.880	
9,500.00	8,413.29	8,433.08	8,412.49	49.22	30.81	96.55	245.60	334.77	993.40	933.25	60.16	16.513	
9,600.00	8,415.03	8,434.81	8,414.23	51.71	30.81	97.21	245.60	334.77	1,092.37	1,032.18	60.19	18.148	
9,700.00	8,416.77	8,436.55	8,415.97	54.27	30.82	97.87	245.60	334.77	1,191.50	1,131.28	60.22	19.785	
9,800.00	8,418.50	8,438.29	8,417.70	56.88	30.82	98.53	245.60	334.77	1,290.77	1,230.51	60.26	21.421	
9,900.00	8,420.24	8,440.03	8,419.44	59.54	30.83	99.18	245.60	334.77	1,390.14	1,329.85	60.29	23.058	
10,000.00	8,421.98	8,441.76	8,421.18	62.25	30.84	99.84	245.60	334.77	1,489.59	1,429.27	60.32	24.694	

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 232H - Wellbore #1 - Plan 2													Offset Site Error: 0.00 usft
Survey Program: C-MWD													Offset Well Error: 0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.20	1.20	0.50	0.50	150.86	-70.86	39.51	81.13				
100.00	100.00	101.20	101.20	0.52	0.51	150.86	-70.86	39.51	81.13	80.11	1.03	79.131	
200.00	200.00	201.20	201.20	0.70	0.59	150.86	-70.86	39.51	81.13	79.84	1.29	62.827	
300.00	300.00	301.20	301.20	0.99	0.73	150.86	-70.86	39.51	81.13	79.41	1.72	47.149	
400.00	400.00	401.20	401.20	1.31	0.91	150.86	-70.86	39.51	81.13	78.91	2.22	36.547	
500.00	500.00	501.20	501.20	1.65	1.11	150.86	-70.86	39.51	81.13	78.38	2.75	29.484	
600.00	600.00	601.20	601.20	1.99	1.31	150.86	-70.86	39.51	81.13	77.83	3.30	24.581	
700.00	700.00	701.20	701.20	2.34	1.52	150.86	-70.86	39.51	81.13	77.27	3.86	21.021	
800.00	800.00	801.20	801.20	2.69	1.73	150.86	-70.86	39.51	81.13	76.71	4.42	18.336	
900.00	900.00	901.20	901.20	3.04	1.95	150.86	-70.86	39.51	81.13	76.14	4.99	16.246	
1,000.00	1,000.00	1,001.20	1,001.20	3.40	2.17	150.86	-70.86	39.51	81.13	75.56	5.57	14.576	
1,100.00	1,100.00	1,101.20	1,101.20	3.75	2.39	150.86	-70.86	39.51	81.13	74.99	6.14	13.213	
1,200.00	1,200.00	1,201.20	1,201.20	4.11	2.61	150.86	-70.86	39.51	81.13	74.41	6.72	12.080	
1,300.00	1,300.00	1,301.20	1,301.20	4.46	2.83	150.86	-70.86	39.51	81.13	73.84	7.29	11.125	
1,400.00	1,400.00	1,401.20	1,401.20	4.82	3.05	150.86	-70.86	39.51	81.13	73.26	7.87	10.308	
1,500.00	1,500.00	1,501.20	1,501.20	5.18	3.27	150.86	-70.86	39.51	81.13	72.68	8.45	9.602	
1,504.19	1,504.19	1,505.39	1,505.39	5.19	3.28	150.86	-70.86	39.51	81.13	72.66	8.47	9.575 CC	
1,600.00	1,600.00	1,600.00	1,600.00	5.53	3.48	151.04	-71.29	39.46	81.49	72.48	9.01	9.044 ES	
1,700.00	1,699.98	1,697.56	1,697.49	5.89	3.64	150.88	-74.64	39.08	85.85	76.32	9.53	9.011 SF	
1,800.00	1,799.84	1,794.21	1,793.92	6.25	3.81	154.45	-81.20	38.34	96.31	86.27	10.04	9.593	
1,900.00	1,899.45	1,889.34	1,888.55	6.61	3.99	160.18	-90.81	37.26	113.31	102.76	10.55	10.742	
2,000.00	1,998.72	1,985.68	1,984.14	6.97	4.19	165.51	-102.68	35.92	136.09	125.01	11.07	12.288	
2,100.00	2,097.87	2,082.45	2,080.16	7.34	4.40	168.32	-114.66	34.57	160.29	148.68	11.61	13.809	
2,200.00	2,197.02	2,179.22	2,176.18	7.72	4.62	170.40	-126.65	33.22	184.76	172.61	12.15	15.211	
2,300.00	2,296.17	2,275.99	2,272.19	8.10	4.85	171.98	-138.63	31.87	209.41	196.72	12.69	16.502	
2,400.00	2,395.32	2,372.76	2,368.21	8.49	5.09	173.24	-150.62	30.51	234.17	220.94	13.24	17.691	
2,500.00	2,494.47	2,469.53	2,464.23	8.88	5.34	174.25	-162.60	29.16	259.02	245.24	13.79	18.785	
2,600.00	2,593.62	2,566.31	2,560.24	9.27	5.59	175.09	-174.59	27.81	283.94	269.60	14.34	19.795	
2,700.00	2,692.78	2,663.08	2,656.26	9.67	5.85	175.79	-186.57	26.46	308.90	294.00	14.90	20.728	
2,800.00	2,791.93	2,759.85	2,752.27	10.07	6.12	176.38	-198.56	25.11	333.90	318.44	15.46	21.593	
2,900.00	2,891.08	2,856.62	2,848.29	10.47	6.39	176.90	-210.54	23.76	358.93	342.90	16.03	22.396	
3,000.00	2,990.23	2,953.39	2,944.31	10.87	6.66	177.34	-222.53	22.40	383.98	367.39	16.59	23.143	
3,100.00	3,089.38	3,050.16	3,040.32	11.28	6.93	177.74	-234.51	21.05	409.05	391.89	17.16	23.838	
3,200.00	3,188.53	3,146.93	3,136.34	11.68	7.21	178.08	-246.49	19.70	434.14	416.41	17.73	24.488	
3,300.00	3,287.68	3,243.70	3,232.35	12.09	7.49	178.39	-258.48	18.35	459.24	440.94	18.30	25.095	
3,400.00	3,386.83	3,340.47	3,328.37	12.50	7.78	178.67	-270.46	17.00	484.35	465.48	18.87	25.665	
3,500.00	3,485.98	3,437.24	3,424.39	12.91	8.06	178.92	-282.45	15.64	509.47	490.02	19.45	26.199	
3,600.00	3,585.13	3,534.01	3,520.40	13.32	8.35	179.14	-294.43	14.29	534.60	514.58	20.02	26.702	
3,700.00	3,684.28	3,630.78	3,616.42	13.74	8.64	179.35	-306.42	12.94	559.74	539.14	20.60	27.175	
3,800.00	3,783.43	3,727.55	3,712.44	14.15	8.93	179.54	-318.40	11.59	584.88	563.70	21.17	27.621	
3,900.00	3,882.58	3,824.32	3,808.45	14.56	9.22	179.71	-330.39	10.24	610.03	588.27	21.75	28.043	
4,000.00	3,981.80	3,921.22	3,904.59	14.98	9.52	179.87	-342.39	8.88	634.67	612.34	22.33	28.420	
4,100.00	4,081.35	4,018.84	4,001.45	15.37	9.81	-179.98	-354.48	7.52	656.27	633.36	22.91	28.644	
4,200.00	4,181.17	4,117.16	4,099.00	15.74	10.11	-179.84	-366.65	6.15	674.45	650.96	23.49	28.710	
4,300.00	4,281.14	4,216.05	4,197.12	16.09	10.42	-179.71	-378.90	4.77	689.20	665.12	24.07	28.630	
4,400.00	4,381.14	4,315.26	4,295.56	16.43	10.72	179.31	-391.19	3.38	701.62	676.97	24.65	28.459	
4,500.00	4,481.14	4,414.48	4,394.01	16.76	11.03	179.43	-403.47	1.99	713.99	688.76	25.24	28.292	
4,600.00	4,581.14	4,513.70	4,492.45	17.10	11.33	179.55	-415.76	0.61	726.37	700.55	25.82	28.132	
4,700.00	4,681.14	4,612.92	4,590.90	17.44	11.64	179.67	-428.05	-0.78	738.74	712.34	26.40	27.979	
4,800.00	4,781.14	4,712.14	4,689.35	17.78	11.95	179.78	-440.34	-2.16	751.12	724.13	26.99	27.832	
4,900.00	4,881.14	4,811.36	4,787.79	18.12	12.25	179.89	-452.63	-3.55	763.50	735.93	27.57	27.690	
5,000.00	4,981.14	4,910.58	4,886.24	18.46	12.56	180.00	-464.91	-4.94	775.89	747.73	28.16	27.554	

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



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Offset Design: Sec 14-T23S-28E - Ovation Fed Com 1318 232H - Wellbore #1 - Plan 2													Offset Site Error:	0.00 usft
Survey Program:		O-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	5,081.14	5,009.80	4,984.69	18.80	12.87	-179.90	-477.20	-6.32	788.28	759.53	28.74	27.423		
5,200.00	5,181.14	5,109.02	5,083.13	19.14	13.18	-179.80	-489.49	-7.71	800.66	771.33	29.33	27.298		
5,300.00	5,281.14	5,239.34	5,212.68	19.48	13.53	-179.70	-503.53	-9.29	811.54	781.46	30.07	26.985		
5,400.00	5,381.14	5,378.51	5,351.56	19.82	13.81	-179.63	-512.12	-10.26	817.72	786.93	30.79	26.559		
5,500.00	5,481.14	5,509.32	5,482.34	20.17	14.05	-179.62	-514.16	-10.49	819.18	787.75	31.43	26.066		
5,600.00	5,581.14	5,609.32	5,582.34	20.51	14.21	-179.62	-514.16	-10.49	819.18	787.21	31.97	25.621		
5,700.00	5,681.14	5,709.32	5,682.34	20.86	14.37	-179.62	-514.16	-10.49	819.18	786.66	32.52	25.191		
5,800.00	5,781.14	5,809.32	5,782.34	21.20	14.53	-179.62	-514.16	-10.49	819.18	786.11	33.07	24.774		
5,900.00	5,881.14	5,909.32	5,882.34	21.55	14.69	-179.62	-514.16	-10.49	819.18	785.56	33.61	24.370		
6,000.00	5,981.14	6,009.32	5,982.34	21.89	14.86	-179.62	-514.16	-10.49	819.18	785.01	34.16	23.977		
6,100.00	6,081.14	6,109.32	6,082.34	22.24	15.02	-179.62	-514.16	-10.49	819.18	784.46	34.72	23.597		
6,200.00	6,181.14	6,209.32	6,182.34	22.58	15.19	-179.62	-514.16	-10.49	819.18	783.91	35.27	23.228		
6,300.00	6,281.14	6,309.32	6,282.34	22.93	15.36	-179.62	-514.16	-10.49	819.18	783.36	35.82	22.869		
6,400.00	6,381.14	6,409.32	6,382.34	23.28	15.53	-179.62	-514.16	-10.49	819.18	782.80	36.37	22.521		
6,500.00	6,481.14	6,509.32	6,482.34	23.63	15.70	-179.62	-514.16	-10.49	819.18	782.25	36.93	22.183		
6,600.00	6,581.14	6,609.32	6,582.34	23.97	15.88	-179.62	-514.16	-10.49	819.18	781.69	37.48	21.854		
6,700.00	6,681.14	6,709.32	6,682.34	24.32	16.05	-179.62	-514.16	-10.49	819.18	781.14	38.04	21.534		
6,800.00	6,781.14	6,809.32	6,782.34	24.67	16.23	-179.62	-514.16	-10.49	819.18	780.58	38.60	21.223		
6,900.00	6,881.14	6,909.32	6,882.34	25.02	16.41	-179.62	-514.16	-10.49	819.18	780.02	39.16	20.921		
7,000.00	6,981.14	7,009.32	6,982.34	25.37	16.58	-179.62	-514.16	-10.49	819.18	779.46	39.71	20.627		
7,100.00	7,081.14	7,109.32	7,082.34	25.72	16.76	-179.62	-514.16	-10.49	819.18	778.90	40.27	20.340		
7,200.00	7,181.14	7,209.32	7,182.34	26.07	16.94	-179.62	-514.16	-10.49	819.18	778.34	40.83	20.061		
7,300.00	7,281.14	7,309.32	7,282.34	26.42	17.13	-179.62	-514.16	-10.49	819.18	777.78	41.39	19.789		
7,400.00	7,381.14	7,409.32	7,382.34	26.77	17.31	-179.62	-514.16	-10.49	819.18	777.22	41.96	19.525		
7,500.00	7,481.14	7,509.32	7,482.34	27.12	17.49	-179.62	-514.16	-10.49	819.18	776.66	42.52	19.267		
7,600.00	7,581.14	7,609.32	7,582.34	27.47	17.68	-179.62	-514.16	-10.49	819.18	776.10	43.08	19.015		
7,700.00	7,681.14	7,709.32	7,682.34	27.82	17.86	-179.62	-514.16	-10.49	819.18	775.53	43.64	18.770		
7,800.00	7,781.14	7,809.32	7,782.34	28.17	18.05	-179.62	-514.16	-10.49	819.18	774.97	44.21	18.530		
7,802.89	7,784.03	7,812.20	7,785.23	28.18	18.05	97.38	-514.16	-10.49	819.18	774.96	44.22	18.524		
7,900.00	7,881.06	7,909.24	7,882.26	28.51	18.24	97.53	-514.16	-10.49	819.51	774.75	44.76	18.308		
8,000.00	7,979.29	8,007.47	7,980.49	28.85	18.42	98.49	-514.16	-10.49	822.08	776.77	45.30	18.146		
8,100.00	8,072.90	8,101.08	8,074.10	29.18	18.60	100.13	-514.16	-10.49	828.12	782.29	45.83	18.069		
8,200.00	8,159.04	8,187.22	8,160.24	29.51	18.76	101.97	-514.16	-10.49	839.39	793.03	46.36	18.107		
8,300.00	8,235.10	8,263.27	8,236.30	29.89	18.91	103.41	-514.16	-10.49	857.97	811.07	46.90	18.292		
8,400.00	8,298.76	8,326.93	8,299.96	30.42	19.03	103.86	-514.16	-10.49	885.72	838.23	47.49	18.650		
8,500.00	8,348.09	8,376.26	8,349.29	31.16	19.12	102.70	-514.16	-10.49	923.76	875.64	48.12	19.197		
8,600.00	8,381.59	8,409.76	8,382.79	32.14	19.19	99.40	-514.16	-10.49	972.08	923.31	48.77	19.932		
8,700.00	8,398.24	8,426.42	8,399.44	33.36	19.22	93.57	-514.16	-10.49	1,029.45	980.06	49.39	20.844		
8,800.00	8,401.12	8,429.29	8,402.32	34.79	19.22	90.86	-514.16	-10.49	1,093.15	1,043.20	49.95	21.883		
8,900.00	8,402.86	8,431.04	8,404.06	36.41	19.23	90.92	-514.16	-10.49	1,159.66	1,109.15	50.51	22.959		
9,000.00	8,404.61	8,432.78	8,405.81	38.22	19.23	90.97	-514.16	-10.49	1,228.28	1,177.23	51.05	24.060		
9,100.00	8,406.34	8,434.52	8,407.54	40.18	19.23	91.02	-514.16	-10.49	1,298.65	1,247.08	51.57	25.181		
9,200.00	8,408.08	8,436.26	8,409.28	42.27	19.24	91.13	-514.16	-10.49	1,371.93	1,319.88	52.06	26.354		
9,300.00	8,409.82	8,437.99	8,411.02	44.49	19.24	91.24	-514.16	-10.49	1,448.42	1,395.92	52.50	27.590		

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



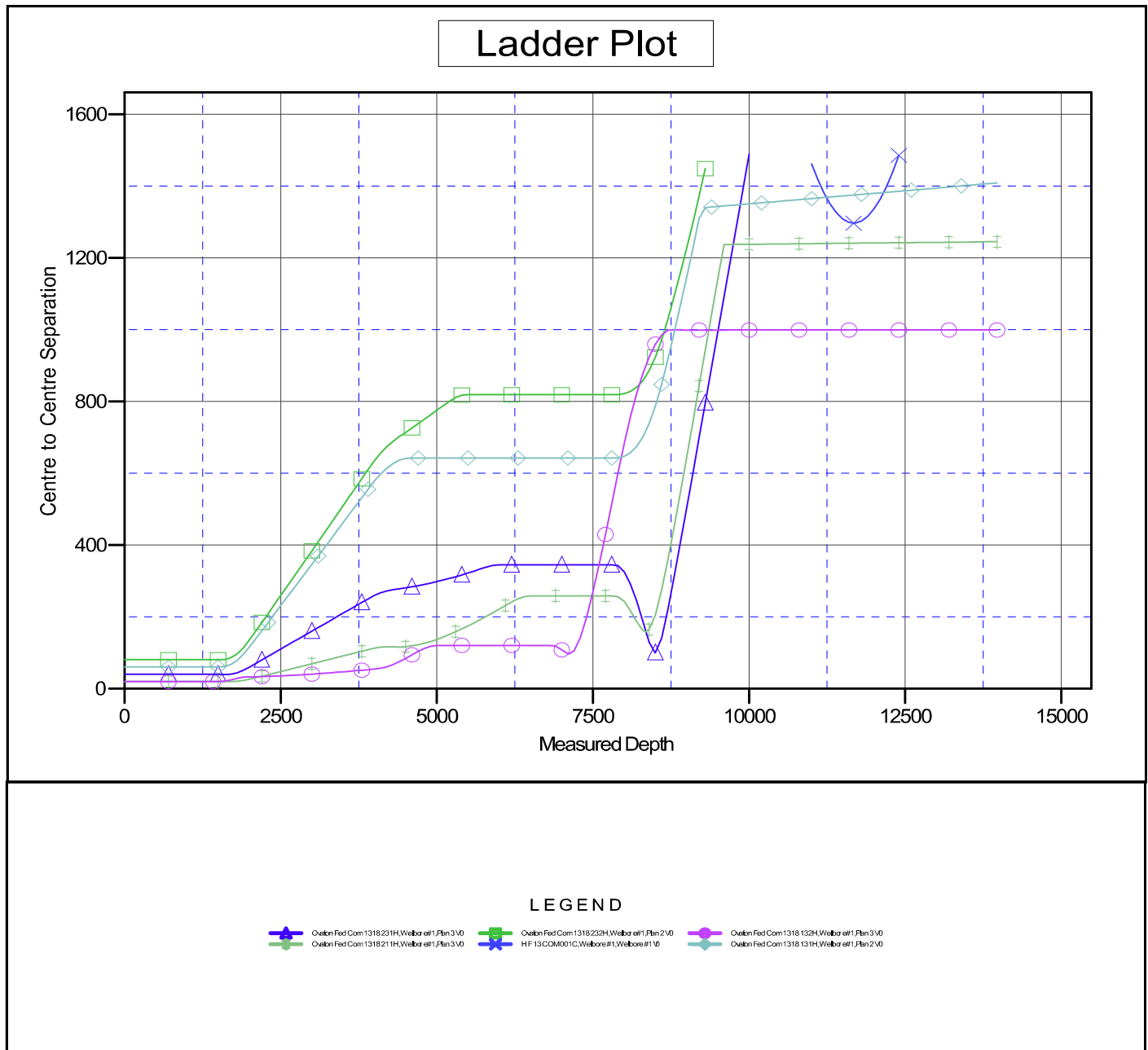
Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 25' + GL 2982 @ 3007.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.3333334

Coordinates are relative to: Ovation Fed Com 1318 241H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.15°



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



Anticollision Report

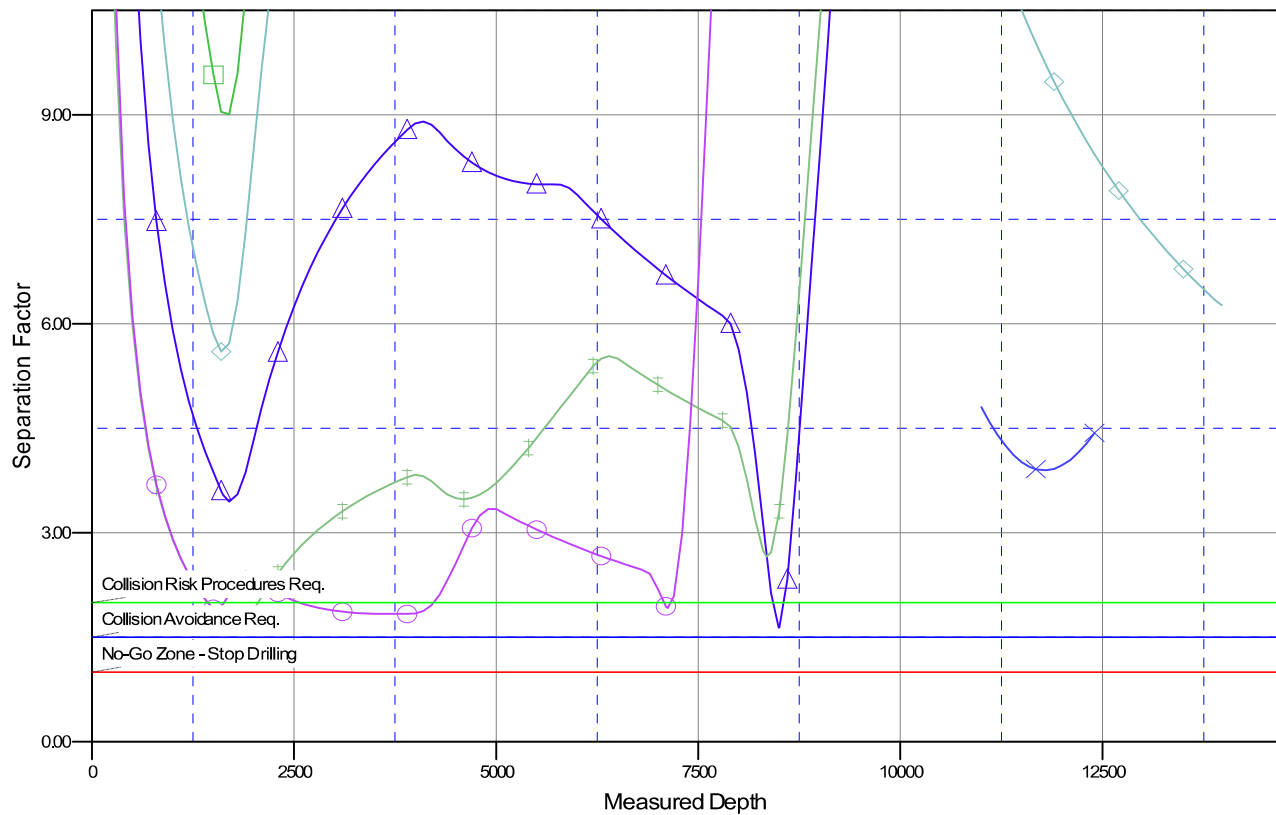


Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well Ovation Fed Com 1318 241H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Reference Site:	Sec 14-T23S-28E	MD Reference:	RKB 25' + GL 2982 @ 3007.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ovation Fed Com 1318 241H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 4	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 25' + GL 2982 @ 3007.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.33333334

Coordinates are relative to: Ovation Fed Com 1318 241H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.15°

Separation Factor Plot



LEGEND

Ovation Fed Com 1318 221H, Wellbore #1, Plan 3 V0	Ovation Fed Com 1318 223H, Wellbore #1, Plan 2 V0	Ovation Fed Com 1318 132H, Wellbore #1, Plan 3 V0
Ovation Fed Com 1318 221H, Wellbore #1, Plan 3 V0	HF 13 COM 001C, Wellbore #1, Wellbore #1 V0	Ovation Fed Com 1318 131H, Wellbore #1, Plan 2 V0

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

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

02/01/2022

Well Name: OVATION FED COM 1318	Well Location: T23S / R28E / SEC 14 / NENE / 32.3108643 / -104.0508453	County or Parish/State: EDDY / NM
Well Number: 241H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0542015	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154910400X1	Well Status: Drilling Well	Operator: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Notice of Intent

Sundry ID: 2651358

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 01/06/2022

Time Sundry Submitted: 08:16

Date proposed operation will begin: 01/20/2022

Procedure Description: Request to change the Bottom Hole Location to 330' FNL & 10' FEL, Section 13, T-23-S, R-28-E, NENE, from 330' FNL & 10' FEL, Section 18, T-23-S, R-29-E, NENE, Eddy County, NM. See attached for detailed changes to casing depth, cement, and mud program.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Ovation_Fed_Com_1318_241H_Plan_4_20220106081647.pdf

Ovation_Fed_Com_1318_241H_Plan_4_AC_Report_20220106081646.pdf

Ovation_Fed_Com_1318_241H_Plan_4_Plot_20220106081646.pdf

Ovation_Fed_Com_1318_241H_Drill_Plans_3S_8.625_010522_v2_20220106081629.pdf

OVATION_FED_COM_1318_241H_signed_20220106081558.pdf

Ovation_1318_241H_BHL_Change_of_Plans_20220106081550.docx

Well Name: OVATION FED COM 1318**Well Location:** T23S / R28E / SEC 14 /
NENE / 32.3108643 / -104.0508453**County or Parish/State:** EDDY /
NM**Well Number:** 241H**Type of Well:** CONVENTIONAL GAS
WELL**Allottee or Tribe Name:****Lease Number:** NMNM0542015**Unit or CA Name:****Unit or CA Number:****US Well Number:** 300154910400X1**Well Status:** Drilling Well**Operator:** NOVO OIL AND GAS
NORTHERN DELAWARE LLC

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:** JAN 06, 2022 08:16 AM**Name:** NOVO OIL AND GAS NORTHERN DELAWARE LLC**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:** 02/01/2022**Signature:** Chris Walls

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 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 77793

COMMENTS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 77793
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO review 2/4/2022	2/4/2022

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State of New Mexico
Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 77793

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 77793
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to pervious NMOCD conditions of approval.	2/4/2022