

Submit 1 Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-49461
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Novo Oil & Gas Northern Delaware, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 1001 West Wilshire Blvd, Suite 206, Oklahoma City, OK 73116		7. Lease Name or Unit Agreement Name Turks Fee 07
4. Well Location Unit Letter A : 476 feet from the N line and 925 feet from the W line Section 18 Township 23S Range 28E NMPM County Eddy		8. Well Number 211H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3061 GR		9. OGRID Number 372920
10. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Novo requests to amend the setbacks that were previously approved in the C103-A (application ID: 115985) on 6/13/2022. The intended setbacks for the LTP are 380' FSL & 330' FEL and the setbacks for the BHL are 380' FSL & 130' FEL.

The SHL will remain the same. See attached revised C102, drill plan, directional plan, and

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Cory Walk TITLE Agent DATE 6/15/2022

Type or print name Cory Walk E-mail address: cory@permitswest.com PHONE: 505-466-8120

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

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 30-015-49461	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 332753	⁵ Property Name TURKS FEE 07	⁶ Well Number 211H
⁷ OGRID No. 372920	⁸ Operator Name NOVO OIL & GAS NORTHERN DELAWARE, LLC	⁹ Elevation 3060.6

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
1	18	23 S	28 E		476	NORTH	925	WEST	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
P	7	23 S	28 E		380	SOUTH	130	EAST	EDDY

¹² Dedicated Acres 318.34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

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

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Cory Walk</i> Date: 6-15-2022 Printed Name: Cory Walk E-mail Address: cory@permitswest.com 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. JUNE 15, 2022 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 12797 Surveyor: IMON F. JARAMILLO, LS 12797 Professional Surveyor No. 9015F
--	---



NOVO Oil & Gas

EDDY CO., NM (NAD83)

SEC 18-23S-28E

TURKS-FEE-07-211H

Wellbore #1

Plan 7

Anticollision Report

09 June, 2022





Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Reference	Plan 7		
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 1,923.26usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	6/9/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,817.96	Plan 7 (Wellbore #1)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
Johnny B Goode Pad (Grid) [NEED PLATS]						
Johnny B Goode WXY Fee 1H - Wellbore #1 - Plan 1	12,911.53	17,260.69	858.47	631.60	3.784	CC
Johnny B Goode WXY Fee 1H - Wellbore #1 - Plan 1	13,000.00	17,178.03	859.05	631.25	3.771	ES
Johnny B Goode WXY Fee 1H - Wellbore #1 - Plan 1	14,818.38	15,359.75	871.48	636.23	3.704	SF
SEC 18-23S-28E						
ALPHA SWD 2 - Wellbore #1 - Wellbore #1	12,361.37	10,021.12	733.72	621.05	6.512	CC, ES
ALPHA SWD 2 - Wellbore #1 - Wellbore #1	12,400.00	10,021.20	734.74	621.16	6.469	SF
CAICOS-FEE-1807-213H - Wellbore #1 - Plan 1	13,913.55	15,212.59	673.51	579.99	7.202	CC, ES
CAICOS-FEE-1807-213H - Wellbore #1 - Plan 1	14,200.00	15,210.91	731.89	623.05	6.724	SF
CAICOS-FEE-1807-222H - Wellbore #1 - Plan 1	12,991.66	15,572.82	485.68	393.79	5.286	CC
CAICOS-FEE-1807-222H - Wellbore #1 - Plan 1	13,000.00	15,572.77	485.75	393.17	5.247	ES
CAICOS-FEE-1807-222H - Wellbore #1 - Plan 1	13,200.00	15,571.60	528.48	417.99	4.783	SF
CAICOS-FEE-1807-223H - Wellbore #1 - Plan 1	14,803.03	15,313.50	483.57	386.12	4.962	CC
CAICOS-FEE-1807-223H - Wellbore #1 - Plan 1	14,818.38	15,313.70	483.81	386.01	4.947	ES, SF
CAICOS-FEE-1807-233H - Wellbore #1 - Plan 1	13,300.00	16,044.32	10.39	-101.59	0.093	No-Go Zone - Stop Drilling, E
CAICOS-FEE-1807-233H - Wellbore #1 - Plan 1	13,304.82	16,044.29	9.20	-83.83	0.099	No-Go Zone - Stop Drilling, C
CAICOS-FEE-1807-234H - Wellbore #1 - Plan 1	14,800.00	15,830.96	15.99	-105.01	0.132	No-Go Zone - Stop Drilling, E
CAICOS-FEE-1807-234H - Wellbore #1 - Plan 1	14,814.73	15,831.10	6.23	-91.89	0.063	No-Go Zone - Stop Drilling, C
MRO Gravel Grinder Fee 23 28 18 10H - Wellbore #1 - W	11,900.00	14,167.00	955.82	854.49	9.432	SF
MRO Gravel Grinder Fee 23 28 18 10H - Wellbore #1 - W	12,151.64	14,167.00	922.11	826.20	9.614	CC, ES
MRO Gravel Grinder Fee 23 28 18WA 005H - Wellbore #	11,213.62	14,218.00	845.01	765.57	10.637	CC, ES
MRO Gravel Grinder Fee 23 28 18WA 005H - Wellbore #	11,700.00	14,218.00	974.99	867.90	9.104	SF
MRO Gravel Grinder Fee 23 28 18WXY 003H - Wellbore	9,560.78	14,150.00	741.24	660.94	9.231	CC, ES, SF
MRO Permit PROTO - Wellbore #1 - Design #1	7,947.59	12,952.01	517.40	433.84	6.191	CC, ES, SF
TURKS-FEE-07-212H - Wellbore #1 - Plan 4	1,400.00	1,398.00	79.94	70.31	8.298	CC, ES
TURKS-FEE-07-212H - Wellbore #1 - Plan 4	1,500.00	1,495.52	81.44	71.11	7.885	SF
TURKS-FEE-07-221H - Wellbore #1 - Plan 3	1,500.00	1,500.00	39.98	29.63	3.861	CC, ES
TURKS-FEE-07-221H - Wellbore #1 - Plan 3	1,600.00	1,599.22	42.16	31.10	3.812	SF
TURKS-FEE-07-231H - Wellbore #1 - Plan 5	10,560.50	10,250.82	8.71	-33.29	0.207	No-Go Zone - Stop Drilling, C
TURKS-FEE-07-231H - Wellbore #1 - Plan 5	10,600.00	10,241.81	39.45	-38.72	0.505	No-Go Zone - Stop Drilling, E
TURKS-FEE-07-232H - Wellbore #1 - Plan 3	11,800.00	10,336.08	29.28	-45.58	0.391	No-Go Zone - Stop Drilling, E
TURKS-FEE-07-232H - Wellbore #1 - Plan 3	11,826.62	10,336.08	12.18	-37.39	0.246	No-Go Zone - Stop Drilling, C

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: Johnny B Goode Pad (Grid) [NEED PLATS] - Johnny B Goode WXY Fee 1H - Wellbore #1 - Plan 1													Offset Site Error:	0.00 usft
Survey Program: 0-													Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,200.00	10,024.87	17,260.69	9,430.00	50.28	199.73	-49.86	1,499.69	2,043.52	1,914.76	1,818.93	95.83	19.981		
11,300.00	10,025.93	17,260.69	9,430.00	52.25	199.73	-49.86	1,499.69	2,043.52	1,825.93	1,727.16	98.77	18.487		
11,400.00	10,026.98	17,260.69	9,430.00	54.33	199.73	-49.86	1,499.69	2,043.52	1,738.30	1,636.15	102.16	17.016		
11,500.00	10,028.04	17,260.69	9,430.00	56.52	199.73	-49.86	1,499.69	2,043.52	1,652.09	1,546.03	106.06	15.577		
11,600.00	10,029.09	17,260.69	9,430.00	58.79	199.73	-49.86	1,499.69	2,043.52	1,567.51	1,456.96	110.55	14.179		
11,700.00	10,030.14	17,260.69	9,430.00	61.15	199.73	-49.86	1,499.69	2,043.52	1,484.85	1,369.14	115.71	12.832		
11,800.00	10,031.20	17,260.69	9,430.00	63.57	199.73	-49.86	1,499.69	2,043.52	1,404.45	1,282.82	121.63	11.547		
11,900.00	10,032.25	17,260.69	9,430.00	66.06	199.73	-49.86	1,499.69	2,043.52	1,326.71	1,198.33	128.38	10.334		
12,000.00	10,033.30	17,260.69	9,430.00	68.60	199.73	-49.86	1,499.69	2,043.52	1,252.14	1,116.09	136.05	9.204		
12,100.00	10,034.36	17,260.69	9,430.00	71.19	199.73	-49.86	1,499.69	2,043.52	1,181.34	1,036.66	144.68	8.165		
12,200.00	10,035.41	17,260.69	9,430.00	73.82	199.73	-49.86	1,499.69	2,043.52	1,115.01	960.73	154.28	7.227		
12,300.00	10,036.47	17,260.69	9,430.00	76.48	199.73	-49.86	1,499.69	2,043.52	1,054.01	889.24	164.77	6.397		
12,400.00	10,037.52	17,260.69	9,430.00	79.18	199.73	-49.86	1,499.69	2,043.52	999.32	823.34	175.98	5.678		
12,500.00	10,038.57	17,260.69	9,430.00	81.92	199.73	-49.86	1,499.69	2,043.52	952.02	764.43	187.58	5.075		
12,600.00	10,039.63	17,260.69	9,430.00	84.68	199.73	-49.86	1,499.69	2,043.52	913.25	714.18	199.07	4.588		
12,700.00	10,040.68	17,260.69	9,430.00	87.46	199.73	-49.86	1,499.69	2,043.52	884.15	674.34	209.81	4.214		
12,800.00	10,041.74	17,260.69	9,430.00	90.27	199.73	-49.86	1,499.69	2,043.52	865.69	646.61	219.07	3.952		
12,900.00	10,042.79	17,260.69	9,430.00	93.10	199.73	-49.86	1,499.69	2,043.52	858.55	632.34	226.21	3.795		
12,911.53	10,042.91	17,260.69	9,430.00	93.43	199.73	-49.86	1,499.69	2,043.52	858.47	631.60	226.87	3.784 CC		
13,000.00	10,043.84	17,178.03	9,431.01	95.94	198.01	-49.90	1,500.27	2,126.17	859.05	631.25	227.80	3.771 ES		
13,100.00	10,044.90	17,078.03	9,432.23	98.81	195.45	-49.95	1,500.97	2,226.16	859.73	631.61	228.12	3.769		
13,200.00	10,045.95	16,978.04	9,433.45	101.69	192.90	-50.01	1,501.67	2,326.14	860.41	631.96	228.45	3.766		
13,300.00	10,047.00	16,878.04	9,434.67	104.58	190.35	-50.06	1,502.37	2,426.13	861.09	632.29	228.80	3.764		
13,400.00	10,048.06	16,778.05	9,435.89	107.49	187.80	-50.11	1,503.07	2,526.11	861.76	632.61	229.15	3.761		
13,500.00	10,049.11	16,678.06	9,437.11	110.41	185.26	-50.16	1,503.77	2,626.10	862.44	632.92	229.52	3.758		
13,600.00	10,050.17	16,578.06	9,438.34	113.34	182.72	-50.22	1,504.47	2,726.08	863.13	633.22	229.91	3.754		
13,700.00	10,051.22	16,478.07	9,439.56	116.28	180.18	-50.27	1,505.17	2,826.07	863.81	633.51	230.30	3.751		
13,800.00	10,052.27	16,378.07	9,440.78	119.23	177.64	-50.32	1,505.87	2,926.05	864.49	633.79	230.70	3.747		
13,900.00	10,053.33	16,278.08	9,442.00	122.19	175.10	-50.37	1,506.57	3,026.03	865.17	634.06	231.11	3.744		
14,000.00	10,054.38	16,178.08	9,443.22	125.16	172.57	-50.42	1,507.27	3,126.02	865.86	634.32	231.53	3.740		
14,100.00	10,055.43	16,078.09	9,444.44	128.14	170.04	-50.48	1,507.97	3,226.00	866.54	634.58	231.96	3.736		
14,200.00	10,056.49	15,978.09	9,445.66	131.12	167.52	-50.53	1,508.67	3,325.99	867.22	634.83	232.40	3.732		
14,300.00	10,057.54	15,878.10	9,446.88	134.11	164.99	-50.58	1,509.37	3,425.97	867.91	635.07	232.84	3.727		
14,400.00	10,058.60	15,778.10	9,448.10	137.10	162.47	-50.63	1,510.07	3,525.96	868.60	635.30	233.29	3.723		
14,500.00	10,059.65	15,678.11	9,449.33	140.11	159.96	-50.68	1,510.77	3,625.94	869.28	635.53	233.75	3.719		
14,600.00	10,060.70	15,578.12	9,450.55	143.11	157.44	-50.73	1,511.47	3,725.93	869.97	635.75	234.22	3.714		
14,700.00	10,061.76	15,478.12	9,451.77	146.13	154.93	-50.78	1,512.16	3,825.91	870.66	635.97	234.69	3.710		
14,800.00	10,062.81	15,378.13	9,452.99	149.14	152.43	-50.84	1,512.86	3,925.90	871.35	636.18	235.17	3.705		
14,818.38	10,063.00	15,359.75	9,453.21	149.70	151.97	-50.84	1,512.99	3,944.27	871.48	636.23	235.25	3.704 SF		

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - ALPHA SWD 2 - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 212-MWD+IGRF													Offset Well Error: 0.50 usft
Rule Assigned:													Warning
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	
0.00	0.00	0.00	0.00	0.50	0.50	85.36	119.57	1,473.12	1,477.98				
100.00	100.00	90.79	90.79	0.52	0.52	85.36	119.57	1,473.19	1,478.03	1,477.00	1.04	1,424.834	
200.00	200.00	188.42	188.42	0.70	0.58	85.36	119.58	1,473.41	1,478.26	1,476.98	1.28	1,153.339	
300.00	300.00	287.60	287.60	0.99	0.78	85.35	119.86	1,473.72	1,478.60	1,476.83	1.77	837.040	
400.00	400.00	393.58	393.58	1.31	1.09	85.32	120.60	1,474.04	1,478.97	1,476.57	2.40	615.953	
500.00	500.00	513.08	513.07	1.65	1.47	85.29	121.33	1,473.15	1,478.27	1,475.15	3.12	473.886	
600.00	600.00	616.39	616.36	1.99	1.81	85.27	121.62	1,471.39	1,476.59	1,472.79	3.80	388.154	
700.00	700.00	713.65	713.62	2.34	2.14	85.27	121.67	1,469.94	1,475.11	1,470.63	4.48	329.189	
800.00	800.00	806.50	806.45	2.69	2.46	85.25	122.09	1,468.82	1,473.95	1,468.80	5.15	286.075	
900.00	900.00	905.51	905.45	3.04	2.81	85.22	122.70	1,467.91	1,473.08	1,467.23	5.85	251.809	
1,000.00	1,000.00	1,003.00	1,002.95	3.40	3.15	85.21	122.97	1,467.21	1,472.39	1,465.85	6.55	224.947	
1,100.00	1,100.00	1,101.26	1,101.20	3.75	3.50	85.19	123.36	1,466.65	1,471.85	1,464.61	7.25	203.108	
1,200.00	1,200.00	1,202.99	1,202.93	4.11	3.85	85.20	123.20	1,466.01	1,471.21	1,463.26	7.96	184.908	
1,300.00	1,300.00	1,300.04	1,299.97	4.46	4.19	85.22	122.62	1,465.56	1,470.69	1,462.05	8.65	170.089	
1,400.00	1,400.00	1,407.43	1,407.36	4.82	4.56	85.24	121.97	1,464.70	1,469.84	1,460.46	9.38	156.761	
1,500.00	1,500.00	1,501.04	1,500.96	5.18	4.89	85.25	121.54	1,464.04	1,469.10	1,459.04	10.06	146.022	
1,520.67	1,520.67	1,520.79	1,520.71	5.25	4.96	131.66	121.43	1,463.95	1,469.04	1,458.84	10.20	143.985	
1,600.00	1,599.98	1,592.06	1,591.98	5.53	5.20	131.71	120.89	1,463.76	1,469.90	1,459.17	10.73	136.984	
1,700.00	1,699.84	1,668.00	1,667.92	5.89	5.46	131.80	119.96	1,464.47	1,474.23	1,462.89	11.34	129.994	
1,800.00	1,799.45	1,757.16	1,757.05	6.24	5.76	131.96	118.63	1,466.35	1,482.06	1,470.07	12.00	123.552	
1,900.00	1,898.70	1,855.44	1,855.28	6.61	6.10	132.22	117.01	1,468.86	1,492.70	1,480.01	12.69	117.650	
2,000.00	1,997.47	1,943.33	1,943.12	6.98	6.40	132.48	115.38	1,471.41	1,506.09	1,492.74	13.35	112.817	
2,100.00	2,095.62	2,042.63	2,042.35	7.38	6.74	132.84	113.63	1,474.62	1,522.29	1,508.23	14.06	108.244	
2,200.00	2,193.06	2,133.76	2,133.42	7.80	7.05	133.19	112.19	1,477.61	1,541.06	1,526.30	14.76	104.415	
2,300.00	2,289.64	2,251.38	2,250.98	8.25	7.46	133.77	110.75	1,480.98	1,562.03	1,546.46	15.57	100.332	
2,400.00	2,385.54	2,369.65	2,369.24	8.73	7.88	134.61	110.12	1,482.29	1,583.26	1,566.87	16.39	96.570	
2,500.00	2,481.41	2,464.00	2,463.59	9.24	8.21	135.32	109.76	1,482.85	1,604.38	1,587.24	17.14	93.595	
2,600.00	2,577.28	2,557.19	2,556.77	9.76	8.53	136.00	109.65	1,483.59	1,625.94	1,608.04	17.89	90.880	
2,700.00	2,673.15	2,657.04	2,656.62	10.30	8.88	136.68	110.17	1,484.35	1,647.67	1,629.00	18.67	88.251	
2,800.00	2,769.02	2,758.05	2,757.63	10.85	9.23	137.36	110.61	1,484.75	1,669.26	1,649.81	19.46	85.787	
2,900.00	2,864.88	2,854.98	2,854.55	11.41	9.57	138.00	110.90	1,484.97	1,690.91	1,670.68	20.23	83.565	
3,000.00	2,960.75	2,955.40	2,954.98	11.98	9.92	138.64	111.17	1,485.11	1,712.68	1,691.65	21.03	81.452	
3,100.00	3,056.62	3,052.87	3,052.45	12.56	10.26	139.26	111.38	1,484.92	1,734.32	1,712.51	21.81	79.525	
3,200.00	3,152.49	3,146.68	3,146.26	13.15	10.58	139.84	111.54	1,484.86	1,756.26	1,733.68	22.58	77.788	
3,300.00	3,248.35	3,242.74	3,242.31	13.74	10.92	140.41	111.71	1,484.84	1,778.43	1,755.07	23.36	76.145	
3,400.00	3,344.22	3,341.61	3,341.18	14.34	11.26	140.99	111.82	1,484.73	1,800.70	1,776.55	24.15	74.578	
3,500.00	3,440.09	3,436.51	3,436.09	14.94	11.59	141.55	111.71	1,484.48	1,823.01	1,798.09	24.92	73.162	
3,600.00	3,535.96	3,531.74	3,531.32	15.55	11.92	142.09	111.59	1,484.37	1,845.62	1,819.93	25.69	71.842	
3,700.00	3,631.82	3,626.46	3,626.04	16.16	12.25	142.61	111.55	1,484.24	1,868.37	1,841.91	26.46	70.611	
3,800.00	3,727.69	3,719.22	3,718.80	16.77	12.58	143.11	111.54	1,484.26	1,891.41	1,864.19	27.22	69.483	
3,900.00	3,823.56	3,815.62	3,815.20	17.39	12.91	143.62	111.52	1,484.38	1,914.70	1,886.70	28.00	68.391	
10,600.00	10,018.55	10,017.51	10,016.78	42.54	34.57	88.96	111.64	1,483.17	1,908.08	1,835.99	72.09	26.468	
10,700.00	10,019.61	10,017.71	10,016.98	43.20	34.57	88.97	111.63	1,483.17	1,816.17	1,743.78	72.39	25.088	
10,800.00	10,020.66	10,017.91	10,017.18	44.14	34.57	88.99	111.63	1,483.16	1,725.17	1,652.38	72.79	23.700	
10,900.00	10,021.71	10,018.11	10,017.39	45.36	34.57	89.01	111.63	1,483.16	1,635.22	1,561.91	73.31	22.304	
11,000.00	10,022.77	10,018.31	10,017.59	46.81	34.57	89.02	111.63	1,483.16	1,546.50	1,472.51	73.99	20.901	
11,100.00	10,023.82	10,018.52	10,017.79	48.46	34.57	89.04	111.62	1,483.16	1,459.25	1,384.39	74.85	19.495	
11,200.00	10,024.87	10,019.00	10,018.28	50.28	34.57	89.08	111.62	1,483.15	1,373.73	1,297.78	75.95	18.088	
11,300.00	10,025.93	10,019.00	10,018.28	52.25	34.57	89.08	111.62	1,483.15	1,290.29	1,212.97	77.32	16.688	
11,400.00	10,026.98	10,019.00	10,018.28	54.33	34.57	89.08	111.62	1,483.15	1,209.37	1,130.35	79.02	15.304	
11,500.00	10,028.04	10,019.00	10,018.28	56.52	34.57	89.08	111.62	1,483.15	1,131.51	1,050.39	81.12	13.949	
11,600.00	10,029.09	10,019.00	10,018.28	58.79	34.57	89.08	111.62	1,483.15	1,057.37	973.71	83.66	12.639	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - ALPHA SWD 2 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft		
Survey Program:		212-MWD+IGRF <th colspan="2">Offset</th> <th colspan="2">Semi Major Axis</th> <th colspan="2">Offset Wellbore Centre</th> <th colspan="3">Rule Assigned:</th> <th colspan="2">Distance</th> <th>Offset Well Error:</th> <td>0.50 usft</td>		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Distance		Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
11,700.00	10,030.14	10,019.75	10,019.03	61.15	34.58	89.13	111.61	1,483.15	987.80	901.10	86.70	11.393				
11,800.00	10,031.20	10,019.95	10,019.23	63.57	34.58	89.15	111.60	1,483.15	923.84	833.60	90.24	10.238				
11,900.00	10,032.25	10,020.16	10,019.44	66.06	34.58	89.17	111.60	1,483.14	866.72	772.48	94.24	9.197				
12,000.00	10,033.30	10,020.37	10,019.64	68.60	34.58	89.18	111.60	1,483.14	817.89	719.31	98.58	8.297				
12,100.00	10,034.36	10,020.58	10,019.85	71.19	34.58	89.20	111.60	1,483.14	778.89	675.86	103.03	7.560				
12,200.00	10,035.41	10,020.78	10,020.06	73.82	34.58	89.21	111.59	1,483.14	751.26	644.00	107.26	7.004				
12,300.00	10,036.47	10,020.99	10,020.27	76.48	34.58	89.23	111.59	1,483.14	736.28	625.40	110.89	6.640				
12,361.37	10,037.11	10,021.12	10,020.40	78.14	34.58	89.24	111.59	1,483.14	733.72	621.05	112.67	6.512	CC, ES			
12,400.00	10,037.52	10,021.20	10,020.48	79.18	34.58	89.25	111.59	1,483.14	734.74	621.16	113.57	6.469	SF			
12,500.00	10,038.57	10,021.41	10,020.69	81.92	34.58	89.26	111.58	1,483.13	746.70	631.58	115.13	6.486				
12,600.00	10,039.63	10,021.62	10,020.89	84.68	34.58	89.28	111.58	1,483.13	771.55	656.00	115.55	6.677				
12,700.00	10,040.68	10,021.83	10,021.10	87.46	34.58	89.30	111.58	1,483.13	808.10	693.07	115.02	7.026				
12,800.00	10,041.74	10,022.04	10,021.31	90.27	34.58	89.31	111.58	1,483.13	854.84	741.04	113.79	7.512				
12,900.00	10,042.79	10,022.25	10,021.52	93.10	34.58	89.33	111.57	1,483.13	910.20	798.08	112.12	8.118				
13,000.00	10,043.84	10,022.46	10,021.74	95.94	34.59	89.35	111.57	1,483.12	972.73	862.49	110.23	8.824				
13,100.00	10,044.90	10,022.67	10,021.95	98.81	34.59	89.36	111.57	1,483.12	1,041.11	932.84	108.28	9.615				
13,200.00	10,045.95	10,022.88	10,022.16	101.69	34.59	89.38	111.56	1,483.12	1,114.29	1,007.94	106.35	10.477				
13,300.00	10,047.00	10,023.10	10,022.37	104.58	34.59	89.40	111.56	1,483.12	1,191.37	1,086.86	104.52	11.399				
13,400.00	10,048.06	10,023.31	10,022.58	107.49	34.59	89.41	111.56	1,483.12	1,271.65	1,168.85	102.80	12.370				
13,500.00	10,049.11	10,023.52	10,022.80	110.41	34.59	89.43	111.56	1,483.12	1,354.56	1,253.33	101.22	13.382				
13,600.00	10,050.17	10,023.73	10,023.01	113.34	34.59	89.45	111.55	1,483.11	1,439.63	1,339.86	99.78	14.428				
13,700.00	10,051.22	10,023.95	10,023.22	116.28	34.59	89.46	111.55	1,483.11	1,526.52	1,428.06	98.46	15.504				
13,800.00	10,052.27	10,024.16	10,023.44	119.23	34.59	89.48	111.55	1,483.11	1,614.93	1,517.67	97.26	16.604				
13,900.00	10,053.33	10,024.38	10,023.65	122.19	34.59	89.50	111.55	1,483.11	1,704.62	1,608.44	96.17	17.725				
14,000.00	10,054.38	10,024.59	10,023.87	125.16	34.59	89.51	111.54	1,483.11	1,795.39	1,700.21	95.18	18.863				
14,100.00	10,055.43	10,024.81	10,024.08	128.14	34.59	89.53	111.54	1,483.10	1,887.11	1,792.82	94.28	20.015				

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - CAICOS-FEE-1807-213H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.50 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)			
12,200.00	10,035.41	15,222.67	9,375.00	73.82	82.59	-0.86	850.28	3,044.57	1,841.12	1,730.95	110.17	16.711	
12,300.00	10,036.47	15,222.08	9,375.00	76.48	82.58	-0.81	849.70	3,044.57	1,748.44	1,639.07	109.37	15.987	
12,400.00	10,037.52	15,221.50	9,375.00	79.18	82.57	-0.76	849.11	3,044.57	1,656.60	1,548.14	108.47	15.273	
12,500.00	10,038.57	15,220.91	9,375.00	81.92	82.56	-0.71	848.52	3,044.57	1,565.77	1,458.32	107.45	14.572	
12,600.00	10,039.63	15,220.32	9,375.00	84.68	82.56	-0.66	847.93	3,044.58	1,476.12	1,369.81	106.31	13.885	
12,700.00	10,040.68	15,219.73	9,375.00	87.46	82.55	-0.61	847.34	3,044.58	1,387.89	1,282.87	105.02	13.216	
12,800.00	10,041.74	15,219.14	9,375.00	90.27	82.54	-0.56	846.76	3,044.58	1,301.36	1,197.80	103.56	12.566	
12,900.00	10,042.79	15,218.56	9,375.00	93.10	82.53	-0.51	846.17	3,044.58	1,216.90	1,114.99	101.91	11.941	
13,000.00	10,043.84	15,217.97	9,375.00	95.94	82.52	-0.46	845.58	3,044.58	1,134.96	1,034.91	100.05	11.344	
13,100.00	10,044.90	15,217.38	9,375.00	98.81	82.52	-0.41	844.99	3,044.58	1,056.14	958.16	97.98	10.779	
13,200.00	10,045.95	15,216.79	9,375.00	101.69	82.51	-0.36	844.40	3,044.59	981.19	885.47	95.72	10.251	
13,300.00	10,047.00	15,216.20	9,375.00	104.58	82.50	-0.31	843.81	3,044.59	911.06	817.73	93.33	9.761	
13,400.00	10,048.06	15,215.61	9,375.00	107.49	82.49	-0.26	843.23	3,044.59	846.95	755.98	90.97	9.310	
13,500.00	10,049.11	15,215.03	9,375.00	110.41	82.48	-0.21	842.64	3,044.59	790.33	701.42	88.91	8.889	
13,600.00	10,050.17	15,214.44	9,375.00	113.34	82.48	-0.16	842.05	3,044.59	742.91	655.32	87.59	8.481	
13,700.00	10,051.22	15,213.85	9,375.00	116.28	82.47	-0.11	841.46	3,044.59	706.55	618.99	87.56	8.069	
13,800.00	10,052.27	15,213.26	9,375.00	119.23	82.46	-0.06	840.87	3,044.59	683.01	593.71	89.30	7.649	
13,900.00	10,053.33	15,212.67	9,375.00	122.19	82.45	-0.01	840.28	3,044.60	673.64	580.74	92.90	7.251	
13,913.55	10,053.47	15,212.59	9,375.00	122.59	82.45	0.00	840.21	3,044.60	673.51	579.99	93.51	7.202 CC, ES	
14,000.00	10,054.38	15,212.08	9,375.00	125.16	82.44	0.04	839.70	3,044.60	679.03	581.13	97.91	6.936	
14,100.00	10,055.43	15,211.50	9,375.00	128.14	82.44	0.09	839.11	3,044.60	698.84	595.35	103.49	6.753	
14,200.00	10,056.49	15,210.91	9,375.00	131.12	82.43	0.14	838.52	3,044.60	731.89	623.05	108.85	6.724 SF	
14,300.00	10,057.54	15,210.32	9,375.00	134.11	82.42	0.19	837.93	3,044.60	776.50	663.01	113.49	6.842	
14,400.00	10,058.60	15,209.73	9,375.00	137.10	82.41	0.24	837.34	3,044.60	830.81	713.55	117.26	7.085	
14,500.00	10,059.65	15,209.14	9,375.00	140.11	82.40	0.29	836.76	3,044.61	893.05	772.88	120.17	7.431	
14,600.00	10,060.70	15,208.56	9,375.00	143.11	82.40	0.34	836.17	3,044.61	961.68	839.31	122.36	7.859	
14,700.00	10,061.76	15,207.97	9,375.00	146.13	82.39	0.39	835.58	3,044.61	1,035.43	911.44	123.98	8.351	
14,800.00	10,062.81	15,207.38	9,375.00	149.14	82.38	0.44	834.99	3,044.61	1,113.28	988.11	125.17	8.894	
14,818.38	10,063.00	15,207.27	9,375.00	149.70	82.38	0.45	834.88	3,044.61	1,127.97	1,001.77	126.20	8.938	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - CAICOS-FEE-1807-222H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													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	
11,200.00	10,024.87	15,583.36	9,554.00	50.28	87.27	-1.25	853.74	2,120.76	1,856.29	1,740.95	115.34	16.094	
11,300.00	10,025.93	15,582.77	9,554.00	52.25	87.26	-1.18	853.16	2,120.76	1,759.97	1,645.27	114.70	15.344	
11,400.00	10,026.98	15,582.19	9,554.00	54.33	87.26	-1.11	852.57	2,120.77	1,664.08	1,550.11	113.97	14.601	
11,500.00	10,028.04	15,581.60	9,554.00	56.52	87.25	-1.04	851.98	2,120.77	1,568.71	1,455.56	113.15	13.864	
11,600.00	10,029.09	15,581.01	9,554.00	58.79	87.24	-0.97	851.39	2,120.77	1,473.95	1,361.75	112.20	13.137	
11,700.00	10,030.14	15,580.42	9,554.00	61.15	87.23	-0.90	850.80	2,120.77	1,379.93	1,268.82	111.12	12.419	
11,800.00	10,031.20	15,579.83	9,554.00	63.57	87.23	-0.83	850.21	2,120.77	1,286.81	1,176.96	109.85	11.714	
11,900.00	10,032.25	15,579.24	9,554.00	66.06	87.22	-0.76	849.63	2,120.77	1,194.81	1,086.43	108.38	11.024	
12,000.00	10,033.30	15,578.66	9,554.00	68.60	87.21	-0.69	849.04	2,120.78	1,104.19	997.55	106.64	10.354	
12,100.00	10,034.36	15,578.07	9,554.00	71.19	87.21	-0.62	848.45	2,120.78	1,015.34	910.75	104.58	9.708	
12,200.00	10,035.41	15,577.48	9,554.00	73.82	87.20	-0.55	847.86	2,120.78	928.76	826.62	102.14	9.093	
12,300.00	10,036.47	15,576.89	9,554.00	76.48	87.19	-0.48	847.27	2,120.78	845.14	745.91	99.23	8.517	
12,400.00	10,037.52	15,576.30	9,554.00	79.18	87.18	-0.41	846.68	2,120.78	765.46	669.64	95.82	7.989	
12,500.00	10,038.57	15,575.71	9,554.00	81.92	87.18	-0.34	846.10	2,120.78	691.09	599.14	91.95	7.516	
12,600.00	10,039.63	15,575.13	9,554.00	84.68	87.17	-0.28	845.51	2,120.78	623.92	536.00	87.92	7.096	
12,700.00	10,040.68	15,574.54	9,554.00	87.46	87.16	-0.21	844.92	2,120.79	566.52	482.00	84.52	6.703	
12,800.00	10,041.74	15,573.95	9,554.00	90.27	87.15	-0.14	844.33	2,120.79	522.13	438.89	83.24	6.273	
12,900.00	10,042.79	15,573.36	9,554.00	93.10	87.15	-0.07	843.74	2,120.79	494.26	408.45	85.81	5.760	
12,991.66	10,043.75	15,572.82	9,554.00	95.71	87.14	0.00	843.20	2,120.79	485.68	393.79	91.89	5.286 CC	
13,000.00	10,043.84	15,572.77	9,554.00	95.94	87.14	0.00	843.15	2,120.79	485.75	393.17	92.58	5.247 ES	
13,100.00	10,044.90	15,572.18	9,554.00	98.81	87.13	0.07	842.57	2,120.79	497.62	395.95	101.67	4.895	
13,200.00	10,045.95	15,571.60	9,554.00	101.69	87.12	0.14	841.98	2,120.79	528.48	417.99	110.49	4.783 SF	
13,300.00	10,047.00	15,571.01	9,554.00	104.58	87.12	0.21	841.39	2,120.80	575.29	457.74	117.55	4.894	
13,400.00	10,048.06	15,570.42	9,554.00	107.49	87.11	0.28	840.80	2,120.80	634.53	511.94	122.58	5.176	
13,500.00	10,049.11	15,569.83	9,554.00	110.41	87.10	0.35	840.21	2,120.80	703.06	577.11	125.95	5.582	
13,600.00	10,050.17	15,569.24	9,554.00	113.34	87.09	0.42	839.62	2,120.80	778.43	650.31	128.12	6.076	
13,700.00	10,051.22	15,568.65	9,554.00	116.28	87.09	0.49	839.04	2,120.80	858.85	729.37	129.48	6.633	
13,800.00	10,052.27	15,568.07	9,554.00	119.23	87.08	0.56	838.45	2,120.80	943.02	812.71	130.31	7.237	
13,900.00	10,053.33	15,567.48	9,554.00	122.19	87.07	0.63	837.86	2,120.80	1,030.02	899.22	130.80	7.875	
14,000.00	10,054.38	15,566.89	9,554.00	125.16	87.06	0.70	837.27	2,120.81	1,119.20	988.13	131.06	8.539	
14,100.00	10,055.43	15,566.30	9,554.00	128.14	87.06	0.77	836.68	2,120.81	1,210.07	1,078.88	131.19	9.224	
14,200.00	10,056.49	15,565.71	9,554.00	131.12	87.05	0.84	836.09	2,120.81	1,302.28	1,171.06	131.21	9.925	
14,300.00	10,057.54	15,565.12	9,554.00	134.11	87.04	0.90	835.51	2,120.81	1,395.56	1,264.38	131.18	10.638	
14,400.00	10,058.60	15,564.54	9,554.00	137.10	87.03	0.97	834.92	2,120.81	1,489.71	1,358.60	131.11	11.362	
14,500.00	10,059.65	15,563.95	9,554.00	140.11	87.03	1.04	834.33	2,120.81	1,584.58	1,453.56	131.02	12.094	
14,600.00	10,060.70	15,563.36	9,554.00	143.11	87.02	1.11	833.74	2,120.82	1,680.05	1,549.13	130.92	12.833	
14,700.00	10,061.76	15,562.77	9,554.00	146.13	87.01	1.18	833.15	2,120.82	1,776.01	1,645.21	130.81	13.578	
14,800.00	10,062.81	15,562.18	9,554.00	149.14	87.00	1.25	832.56	2,120.82	1,872.40	1,741.71	130.69	14.327	
14,818.38	10,063.00	15,562.07	9,554.00	149.70	87.00	1.26	832.46	2,120.82	1,890.15	1,756.28	133.87	14.119	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - CAICOS-FEE-1807-223H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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	
13,000.00	10,043.84	15,290.15	9,574.00	95.94	79.90	2.77	813.86	3,931.65	1,866.60	1,751.62	114.98	16.235	
13,100.00	10,044.90	15,291.44	9,574.00	98.81	79.92	2.62	815.15	3,931.67	1,770.21	1,655.53	114.68	15.436	
13,200.00	10,045.95	15,292.74	9,574.00	101.69	79.94	2.47	816.45	3,931.69	1,674.25	1,559.91	114.34	14.643	
13,300.00	10,047.00	15,294.03	9,574.00	104.58	79.96	2.31	817.74	3,931.71	1,578.78	1,464.83	113.95	13.855	
13,400.00	10,048.06	15,295.33	9,574.00	107.49	79.98	2.16	819.04	3,931.73	1,483.91	1,370.42	113.49	13.075	
13,500.00	10,049.11	15,296.62	9,574.00	110.41	80.00	2.01	820.33	3,931.75	1,389.76	1,276.80	112.96	12.303	
13,600.00	10,050.17	15,297.92	9,574.00	113.34	80.01	1.85	821.63	3,931.77	1,296.48	1,184.15	112.34	11.541	
13,700.00	10,051.22	15,299.21	9,574.00	116.28	80.03	1.70	822.92	3,931.79	1,204.28	1,092.69	111.60	10.791	
13,800.00	10,052.27	15,300.51	9,574.00	119.23	80.05	1.55	824.22	3,931.82	1,113.43	1,002.71	110.72	10.056	
13,900.00	10,053.33	15,301.80	9,574.00	122.19	80.07	1.39	825.51	3,931.84	1,024.28	914.61	109.68	9.339	
14,000.00	10,054.38	15,303.10	9,574.00	125.16	80.09	1.24	826.81	3,931.86	937.33	828.91	108.42	8.645	
14,100.00	10,055.43	15,304.39	9,574.00	128.14	80.10	1.09	828.10	3,931.88	853.23	746.32	106.92	7.980	
14,200.00	10,056.49	15,305.69	9,574.00	131.12	80.12	0.93	829.40	3,931.90	772.93	667.81	105.12	7.353	
14,300.00	10,057.54	15,306.98	9,574.00	134.11	80.14	0.78	830.69	3,931.92	697.73	594.71	103.03	6.772	
14,400.00	10,058.60	15,308.28	9,574.00	137.10	80.16	0.63	831.99	3,931.94	629.48	528.79	100.68	6.252	
14,500.00	10,059.65	15,309.57	9,574.00	140.11	80.18	0.47	833.28	3,931.96	570.66	472.36	98.29	5.806	
14,600.00	10,060.70	15,310.87	9,574.00	143.11	80.20	0.32	834.58	3,931.98	524.45	428.10	96.35	5.443	
14,700.00	10,061.76	15,312.16	9,574.00	146.13	80.21	0.17	835.87	3,932.00	494.42	398.70	95.72	5.165	
14,800.00	10,062.81	15,313.46	9,574.00	149.14	80.23	0.01	837.17	3,932.02	483.58	386.22	97.36	4.967	
14,803.03	10,062.84	15,313.50	9,574.00	149.23	80.23	0.01	837.21	3,932.03	483.57	386.12	97.45	4.962 CC	
14,818.38	10,063.00	15,313.70	9,574.00	149.70	80.24	-0.02	837.40	3,932.03	483.81	386.01	97.80	4.947 ES, SF	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - CAICOS-FEE-1807-233H - Wellbore #1 - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum	Separation	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)	Separation (usft)	Factor	
11,400.00	10,026.98	16,055.60	10,051.70	54.33	85.30	-128.83	853.53	2,428.69	1,904.81	1,782.16	122.65	15.530	
11,500.00	10,028.04	16,055.01	10,051.70	56.52	85.29	-130.35	852.94	2,428.69	1,804.81	1,682.15	122.66	14.714	
11,600.00	10,029.09	16,054.41	10,051.70	58.79	85.28	-131.97	852.34	2,428.69	1,704.81	1,582.15	122.67	13.898	
11,700.00	10,030.14	16,053.82	10,051.71	61.15	85.28	-133.69	851.75	2,428.69	1,604.82	1,482.14	122.67	13.082	
11,800.00	10,031.20	16,053.23	10,051.71	63.57	85.27	-135.54	851.16	2,428.69	1,504.82	1,382.14	122.69	12.266	
11,900.00	10,032.25	16,052.63	10,051.71	66.06	85.26	-137.50	850.56	2,428.70	1,404.82	1,282.13	122.70	11.449	
12,000.00	10,033.30	16,052.04	10,051.72	68.60	85.25	-139.60	849.97	2,428.70	1,304.83	1,182.11	122.71	10.633	
12,100.00	10,034.36	16,051.44	10,051.72	71.19	85.25	-141.83	849.37	2,428.70	1,204.83	1,082.10	122.73	9.817	
12,200.00	10,035.41	16,050.85	10,051.72	73.82	85.24	-144.21	848.78	2,428.70	1,104.84	982.08	122.76	9.000	
12,300.00	10,036.47	16,050.26	10,051.73	76.48	85.23	-146.74	848.19	2,428.70	1,004.84	882.06	122.78	8.184	
12,400.00	10,037.52	16,049.66	10,051.73	79.18	85.22	-149.42	847.59	2,428.70	904.85	782.04	122.81	7.368	
12,500.00	10,038.57	16,049.07	10,051.73	81.92	85.21	-152.25	847.00	2,428.71	804.86	682.01	122.85	6.551	
12,600.00	10,039.63	16,048.47	10,051.74	84.68	85.21	-155.24	846.40	2,428.71	704.87	581.97	122.90	5.735	
12,700.00	10,040.68	16,047.88	10,051.74	87.46	85.20	-158.38	845.81	2,428.71	604.88	481.92	122.96	4.919	
12,800.00	10,041.74	16,047.29	10,051.74	90.27	85.19	-161.65	845.22	2,428.71	504.89	381.85	123.04	4.103	
12,900.00	10,042.79	16,046.69	10,051.74	93.10	85.18	-165.06	844.62	2,428.71	404.92	281.76	123.16	3.288	
13,000.00	10,043.84	16,046.10	10,051.75	95.94	85.18	-168.57	844.03	2,428.71	304.95	181.61	123.35	2.472	
13,100.00	10,044.90	16,045.50	10,051.75	98.81	85.17	-172.17	843.43	2,428.72	205.02	81.33	123.69	1.658	Collision Risk Procedures Req.
13,200.00	10,045.95	16,044.91	10,051.75	101.69	85.16	-175.83	842.84	2,428.72	105.22	-19.37	124.59	0.845	No-Go Zone - Stop Drilling
13,300.00	10,047.00	16,044.32	10,051.76	104.58	85.15	-179.52	842.25	2,428.72	10.39	-101.59	111.98	0.093	No-Go Zone - Stop Drilling, ES, SF
13,304.82	10,047.05	16,044.29	10,051.76	104.72	85.15	-179.70	842.22	2,428.72	9.20	-83.83	93.04	0.099	No-Go Zone - Stop Drilling, CC
13,400.00	10,048.06	16,043.72	10,051.76	107.49	85.15	176.78	841.65	2,428.72	95.62	-24.45	120.07	0.796	No-Go Zone - Stop Drilling
13,500.00	10,049.11	16,043.13	10,051.76	110.41	85.14	173.12	841.06	2,428.72	195.39	73.90	121.49	1.608	Collision Risk Procedures Req.
13,600.00	10,050.17	16,042.53	10,051.77	113.34	85.13	169.51	840.46	2,428.72	295.32	173.38	121.94	2.422	
13,700.00	10,051.22	16,041.94	10,051.77	116.28	85.12	165.99	839.87	2,428.72	395.28	273.12	122.16	3.236	
13,800.00	10,052.27	16,041.35	10,051.77	119.23	85.11	162.58	839.28	2,428.73	495.26	372.95	122.30	4.049	
13,900.00	10,053.33	16,040.75	10,051.78	122.19	85.11	159.29	838.68	2,428.73	595.24	472.84	122.40	4.863	
14,000.00	10,054.38	16,040.16	10,051.78	125.16	85.10	156.13	838.09	2,428.73	695.23	572.75	122.48	5.676	
14,100.00	10,055.43	16,039.56	10,051.78	128.14	85.09	153.13	837.49	2,428.73	795.22	672.67	122.55	6.489	
14,200.00	10,056.49	16,038.97	10,051.79	131.12	85.08	150.28	836.90	2,428.73	895.21	772.61	122.61	7.302	
14,300.00	10,057.54	16,038.38	10,051.79	134.11	85.08	147.59	836.31	2,428.73	995.21	872.55	122.66	8.114	
14,400.00	10,058.60	16,037.78	10,051.79	137.10	85.07	145.04	835.71	2,428.74	1,095.20	972.50	122.70	8.926	
14,500.00	10,059.65	16,037.19	10,051.79	140.11	85.06	142.65	835.12	2,428.74	1,195.19	1,072.45	122.75	9.737	
14,600.00	10,060.70	16,036.59	10,051.80	143.11	85.05	140.41	834.52	2,428.74	1,295.19	1,172.40	122.79	10.548	
14,700.00	10,061.76	16,036.00	10,051.80	146.13	85.04	138.30	833.93	2,428.74	1,395.19	1,272.35	122.83	11.358	
14,800.00	10,062.81	16,035.41	10,051.80	149.14	85.04	136.32	833.34	2,428.74	1,495.18	1,372.31	122.87	12.169	
14,818.38	10,063.00	16,035.30	10,051.80	149.70	85.04	135.97	833.23	2,428.74	1,513.56	1,385.88	127.68	11.855	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - CAICOS-FEE-1807-234H - Wellbore #1 - Plan 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.50 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)			
12,900.00	10,042.79	15,812.89	10,064.19	93.10	79.94	109.19	819.08	3,938.33	1,914.65	1,795.58	119.07	16.081	
13,000.00	10,043.84	15,813.84	10,064.18	95.94	79.96	110.15	820.03	3,938.34	1,814.66	1,695.55	119.11	15.235	
13,100.00	10,044.90	15,814.79	10,064.18	98.81	79.97	111.21	820.98	3,938.36	1,714.66	1,595.51	119.15	14.390	
13,200.00	10,045.95	15,815.74	10,064.17	101.69	79.98	112.38	821.93	3,938.37	1,614.67	1,495.47	119.20	13.546	
13,300.00	10,047.00	15,816.69	10,064.17	104.58	80.00	113.69	822.88	3,938.38	1,514.67	1,395.43	119.24	12.702	
13,400.00	10,048.06	15,817.64	10,064.16	107.49	80.01	115.15	823.83	3,938.39	1,414.68	1,295.39	119.29	11.859	
13,500.00	10,049.11	15,818.59	10,064.16	110.41	80.02	116.79	824.78	3,938.40	1,314.68	1,195.34	119.34	11.016	
13,600.00	10,050.17	15,819.54	10,064.15	113.34	80.04	118.64	825.73	3,938.42	1,214.69	1,095.30	119.39	10.174	
13,700.00	10,051.22	15,820.50	10,064.15	116.28	80.05	120.74	826.68	3,938.43	1,114.69	995.25	119.44	9.333	
13,800.00	10,052.27	15,821.45	10,064.14	119.23	80.07	123.15	827.64	3,938.44	1,014.70	895.20	119.50	8.492	
13,900.00	10,053.33	15,822.40	10,064.14	122.19	80.08	125.91	828.59	3,938.45	914.71	795.15	119.55	7.651	
14,000.00	10,054.38	15,823.35	10,064.13	125.16	80.09	129.10	829.54	3,938.47	814.71	695.10	119.61	6.811	
14,100.00	10,055.43	15,824.30	10,064.13	128.14	80.11	132.81	830.49	3,938.48	714.72	595.05	119.67	5.972	
14,200.00	10,056.49	15,825.25	10,064.12	131.12	80.12	137.12	831.44	3,938.49	614.73	494.99	119.74	5.134	
14,300.00	10,057.54	15,826.20	10,064.12	134.11	80.13	142.14	832.39	3,938.50	514.74	394.93	119.81	4.296	
14,400.00	10,058.60	15,827.15	10,064.11	137.10	80.15	147.96	833.34	3,938.51	414.75	294.86	119.90	3.459	
14,500.00	10,059.65	15,828.10	10,064.11	140.11	80.16	154.64	834.29	3,938.53	314.77	194.77	120.00	2.623	
14,600.00	10,060.70	15,829.05	10,064.10	143.11	80.17	162.15	835.24	3,938.54	214.81	94.66	120.15	1.788	Collision Risk Procedures Req.
14,700.00	10,061.76	15,830.00	10,064.10	146.13	80.19	170.37	836.19	3,938.55	114.89	-5.55	120.44	0.954	No-Go Zone - Stop Drilling
14,800.00	10,062.81	15,830.96	10,064.09	149.14	80.20	179.02	837.14	3,938.56	15.99	-105.01	121.00	0.132	No-Go Zone - Stop Drilling, ES
14,814.73	10,062.97	15,831.10	10,064.09	149.59	80.20	-179.69	837.28	3,938.56	6.23	-91.89	98.12	0.063	No-Go Zone - Stop Drilling, CC, SF
14,818.38	10,063.00	15,831.13	10,064.09	149.70	80.20	-179.38	837.32	3,938.57	7.22	-96.07	103.29	0.070	No-Go Zone - Stop Drilling

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - MRO Gravel Grinder Fee 23 28 18 10H - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 397-MWD+IGRF												Offset Well Error:	0.50 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)			
10,500.00	10,017.50	14,167.00	9,421.83	42.14	97.77	46.77	174.09	1,280.17	1,891.61	1,764.59	127.01	14.893	
10,600.00	10,018.55	14,167.00	9,421.83	42.54	97.77	46.77	174.09	1,280.17	1,804.95	1,678.81	126.14	14.309	
10,700.00	10,019.61	14,167.00	9,421.83	43.20	97.77	46.77	174.09	1,280.17	1,719.75	1,594.57	125.17	13.739	
10,800.00	10,020.66	14,167.00	9,421.83	44.14	97.77	46.77	174.09	1,280.17	1,636.21	1,512.10	124.11	13.183	
10,900.00	10,021.71	14,167.00	9,421.83	45.36	97.77	46.77	174.09	1,280.17	1,554.63	1,431.69	122.94	12.646	
11,000.00	10,022.77	14,167.00	9,421.83	46.81	97.77	46.77	174.09	1,280.17	1,475.31	1,353.67	121.64	12.129	
11,100.00	10,023.82	14,167.00	9,421.83	48.46	97.77	46.77	174.09	1,280.17	1,398.65	1,278.45	120.19	11.637	
11,200.00	10,024.87	14,167.00	9,421.83	50.28	97.77	46.77	174.09	1,280.17	1,325.10	1,206.51	118.59	11.174	
11,300.00	10,025.93	14,167.00	9,421.83	52.25	97.77	46.77	174.09	1,280.17	1,255.21	1,138.41	116.80	10.746	
11,400.00	10,026.98	14,167.00	9,421.83	54.33	97.77	46.77	174.09	1,280.17	1,189.64	1,074.83	114.81	10.362	
11,500.00	10,028.04	14,167.00	9,421.83	56.52	97.77	46.77	174.09	1,280.17	1,129.12	1,016.55	112.57	10.030	
11,600.00	10,029.09	14,167.00	9,421.83	58.79	97.77	46.77	174.09	1,280.17	1,074.51	964.44	110.08	9.761	
11,700.00	10,030.14	14,167.00	9,421.83	61.15	97.77	46.77	174.09	1,280.17	1,026.77	919.44	107.32	9.567	
11,800.00	10,031.20	14,167.00	9,421.83	63.57	97.77	46.77	174.09	1,280.17	986.88	882.52	104.36	9.456	
11,900.00	10,032.25	14,167.00	9,421.83	66.06	97.77	46.77	174.09	1,280.17	955.82	854.49	101.33	9.432 SF	
12,000.00	10,033.30	14,167.00	9,421.83	68.60	97.77	46.77	174.09	1,280.17	934.49	835.95	98.54	9.483	
12,100.00	10,034.36	14,167.00	9,421.83	71.19	97.77	46.77	174.09	1,280.17	923.55	827.07	96.48	9.572	
12,151.64	10,034.90	14,167.00	9,421.83	72.54	97.77	46.77	174.09	1,280.17	922.11	826.20	95.91	9.614 CC, ES	
12,200.00	10,035.41	14,167.00	9,421.83	73.82	97.77	46.77	174.09	1,280.17	923.37	827.62	95.76	9.643	
12,300.00	10,036.47	14,167.00	9,421.83	76.48	97.77	46.77	174.09	1,280.17	933.96	837.16	96.81	9.648	
12,400.00	10,037.52	14,167.00	9,421.83	79.18	97.77	46.77	174.09	1,280.17	954.97	855.37	99.60	9.588	
12,500.00	10,038.57	14,167.00	9,421.83	81.92	97.77	46.77	174.09	1,280.17	985.72	882.11	103.60	9.514	
12,600.00	10,039.63	14,167.00	9,421.83	84.68	97.77	46.77	174.09	1,280.17	1,025.33	917.20	108.13	9.482	
12,700.00	10,040.68	14,167.00	9,421.83	87.46	97.77	46.77	174.09	1,280.17	1,072.84	960.19	112.65	9.524	
12,800.00	10,041.74	14,167.00	9,421.83	90.27	97.77	46.77	174.09	1,280.17	1,127.23	1,010.39	116.84	9.648	
12,900.00	10,042.79	14,167.00	9,421.83	93.10	97.77	46.77	174.09	1,280.17	1,187.57	1,067.01	120.57	9.850	
13,000.00	10,043.84	14,167.00	9,421.83	95.94	97.77	46.77	174.09	1,280.17	1,253.00	1,129.20	123.79	10.122	
13,100.00	10,044.90	14,167.00	9,421.83	98.81	97.77	46.77	174.09	1,280.17	1,322.75	1,196.21	126.54	10.453	
13,200.00	10,045.95	14,167.00	9,421.83	101.69	97.77	46.77	174.09	1,280.17	1,396.19	1,267.32	128.87	10.834	
13,300.00	10,047.00	14,167.00	9,421.83	104.58	97.77	46.77	174.09	1,280.17	1,472.76	1,341.94	130.82	11.258	
13,400.00	10,048.06	14,167.00	9,421.83	107.49	97.77	46.77	174.09	1,280.17	1,552.00	1,419.53	132.47	11.716	
13,500.00	10,049.11	14,167.00	9,421.83	110.41	97.77	46.77	174.09	1,280.17	1,633.51	1,499.66	133.85	12.204	
13,600.00	10,050.17	14,167.00	9,421.83	113.34	97.77	46.77	174.09	1,280.17	1,716.98	1,581.97	135.02	12.717	
13,700.00	10,051.22	14,167.00	9,421.83	116.28	97.77	46.77	174.09	1,280.17	1,802.14	1,666.14	136.00	13.251	
13,800.00	10,052.27	14,167.00	9,421.83	119.23	97.77	46.77	174.09	1,280.17	1,888.75	1,751.91	136.84	13.803	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - MRO Gravel Grinder Fee 23 28 18WA 005H - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft	
Survey Program: 391-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0.50 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
8,500.00	8,331.91	14,218.00	9,555.23	38.14	96.98	119.25	160.76	340.67	1,858.61	1,760.46	98.15	18.937		
8,600.00	8,431.91	14,218.00	9,555.23	38.42	96.98	119.25	160.76	340.67	1,795.51	1,694.90	100.61	17.846		
8,700.00	8,531.91	14,218.00	9,555.23	38.70	96.98	119.25	160.76	340.67	1,735.89	1,632.76	103.13	16.833		
8,800.00	8,631.91	14,218.00	9,555.23	38.98	96.98	119.25	160.76	340.67	1,680.10	1,574.44	105.66	15.901		
8,900.00	8,731.91	14,218.00	9,555.23	39.26	96.98	119.25	160.76	340.67	1,628.55	1,520.37	108.18	15.055		
9,000.00	8,831.91	14,218.00	9,555.23	39.54	96.98	119.25	160.76	340.67	1,581.65	1,471.02	110.63	14.297		
9,100.00	8,931.91	14,218.00	9,555.23	39.82	96.98	119.25	160.76	340.67	1,539.82	1,426.86	112.96	13.631		
9,200.00	9,031.91	14,218.00	9,555.23	40.11	96.98	119.25	160.76	340.67	1,503.49	1,388.37	115.12	13.060		
9,300.00	9,131.91	14,218.00	9,555.23	40.39	96.98	119.25	160.76	340.67	1,473.07	1,356.03	117.03	12.587		
9,400.00	9,231.91	14,218.00	9,555.23	40.68	96.98	119.25	160.76	340.67	1,448.92	1,330.28	118.64	12.213		
9,500.00	9,331.91	14,218.00	9,555.23	40.97	96.98	119.25	160.76	340.67	1,431.36	1,311.48	119.88	11.940		
9,600.00	9,431.91	14,218.00	9,555.23	41.26	96.98	119.25	160.76	340.67	1,420.64	1,299.94	120.70	11.770		
9,700.00	9,531.91	14,218.00	9,555.23	41.55	96.98	119.25	160.76	340.67	1,416.92	1,295.83	121.09	11.702		
9,800.00	9,631.33	14,218.00	9,555.23	41.78	96.98	29.32	160.76	340.67	1,412.45	1,291.59	120.86	11.687		
9,900.00	9,726.75	14,218.00	9,555.23	41.89	96.98	30.26	160.76	340.67	1,396.89	1,277.05	119.84	11.656		
10,000.00	9,813.98	14,218.00	9,555.23	41.92	96.98	31.96	160.76	340.67	1,370.51	1,252.45	118.07	11.608		
10,100.00	9,889.22	14,218.00	9,555.23	41.89	96.98	34.56	160.76	340.67	1,333.86	1,218.26	115.60	11.538		
10,200.00	9,949.18	14,218.00	9,555.23	41.86	96.98	38.26	160.76	340.67	1,287.75	1,175.18	112.57	11.440		
10,300.00	9,991.23	14,218.00	9,555.23	41.86	96.98	43.36	160.76	340.67	1,233.25	1,124.12	109.12	11.301		
10,400.00	10,013.55	14,218.00	9,555.23	41.94	96.98	50.17	160.76	340.67	1,171.76	1,066.29	105.47	11.110		
10,500.00	10,017.50	14,218.00	9,555.23	42.14	96.98	54.53	160.76	340.67	1,106.03	1,004.26	101.77	10.868		
10,600.00	10,018.55	14,218.00	9,555.23	42.54	96.98	54.53	160.76	340.67	1,044.31	946.53	97.77	10.681		
10,700.00	10,019.61	14,218.00	9,555.23	43.20	96.98	54.53	160.76	340.67	988.86	895.39	93.47	10.579		
10,800.00	10,020.66	14,218.00	9,555.23	44.14	96.98	54.53	160.76	340.67	940.81	851.79	89.03	10.568		
10,900.00	10,021.71	14,218.00	9,555.23	45.36	96.98	54.53	160.76	340.67	901.34	816.60	84.74	10.637		
11,000.00	10,022.77	14,218.00	9,555.23	46.81	96.98	54.53	160.76	340.67	871.60	790.47	81.12	10.744		
11,100.00	10,023.82	14,218.00	9,555.23	48.46	96.98	54.53	160.76	340.67	852.62	773.64	78.98	10.796		
11,200.00	10,024.87	14,218.00	9,555.23	50.28	96.98	54.53	160.76	340.67	845.12	765.93	79.19	10.672		
11,213.62	10,025.02	14,218.00	9,555.23	50.55	96.98	54.53	160.76	340.67	845.01	765.57	79.44	10.637	CC, ES	
11,300.00	10,025.93	14,218.00	9,555.23	52.25	96.98	54.53	160.76	340.67	849.42	767.22	82.20	10.334		
11,400.00	10,026.98	14,218.00	9,555.23	54.33	96.98	54.53	160.76	340.67	865.32	777.82	87.50	9.889		
11,500.00	10,028.04	14,218.00	9,555.23	56.52	96.98	54.53	160.76	340.67	892.22	798.20	94.02	9.489		
11,600.00	10,029.09	14,218.00	9,555.23	58.79	96.98	54.53	160.76	340.67	929.16	828.39	100.77	9.221		
11,700.00	10,030.14	14,218.00	9,555.23	61.15	96.98	54.53	160.76	340.67	974.99	867.90	107.09	9.104	SF	
11,800.00	10,031.20	14,218.00	9,555.23	63.57	96.98	54.53	160.76	340.67	1,028.54	915.84	112.70	9.127		
11,900.00	10,032.25	14,218.00	9,555.23	66.06	96.98	54.53	160.76	340.67	1,088.65	971.15	117.50	9.265		
12,000.00	10,033.30	14,218.00	9,555.23	68.60	96.98	54.53	160.76	340.67	1,154.31	1,032.77	121.54	9.497		
12,100.00	10,034.36	14,218.00	9,555.23	71.19	96.98	54.53	160.76	340.67	1,224.63	1,099.73	124.90	9.805		
12,200.00	10,035.41	14,218.00	9,555.23	73.82	96.98	54.53	160.76	340.67	1,298.84	1,171.18	127.67	10.174		
12,300.00	10,036.47	14,218.00	9,555.23	76.48	96.98	54.53	160.76	340.67	1,376.32	1,246.37	129.95	10.591		
12,400.00	10,037.52	14,218.00	9,555.23	79.18	96.98	54.53	160.76	340.67	1,456.55	1,324.71	131.84	11.048		
12,500.00	10,038.57	14,218.00	9,555.23	81.92	96.98	54.53	160.76	340.67	1,539.10	1,405.70	133.40	11.538		
12,600.00	10,039.63	14,218.00	9,555.23	84.68	96.98	54.53	160.76	340.67	1,623.61	1,488.91	134.70	12.054		
12,700.00	10,040.68	14,218.00	9,555.23	87.46	96.98	54.53	160.76	340.67	1,709.79	1,574.01	135.78	12.593		
12,800.00	10,041.74	14,218.00	9,555.23	90.27	96.98	54.53	160.76	340.67	1,797.40	1,660.72	136.68	13.150		
12,900.00	10,042.79	14,218.00	9,555.23	93.10	96.98	54.53	160.76	340.67	1,886.25	1,748.80	137.44	13.724		

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - MRO Gravel Grinder Fee 23 28 18WXY 003H - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		398-MWD+IGRF							Rule Assigned:				Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,800.00	7,631.91	14,150.00	9,413.18	36.24	97.12	153.18	191.47	-561.24	1,910.44	1,847.74	62.70	30.470		
7,900.00	7,731.91	14,150.00	9,413.18	36.51	97.12	153.18	191.47	-561.24	1,818.68	1,755.34	63.35	28.709		
8,000.00	7,831.91	14,150.00	9,413.18	36.78	97.12	153.18	191.47	-561.24	1,727.85	1,663.80	64.05	26.977		
8,100.00	7,931.91	14,150.00	9,413.18	37.05	97.12	153.18	191.47	-561.24	1,638.08	1,573.27	64.81	25.276		
8,200.00	8,031.91	14,150.00	9,413.18	37.32	97.12	153.18	191.47	-561.24	1,549.56	1,483.93	65.63	23.610		
8,300.00	8,131.91	14,150.00	9,413.18	37.59	97.12	153.18	191.47	-561.24	1,462.53	1,396.00	66.53	21.984		
8,400.00	8,231.91	14,150.00	9,413.18	37.87	97.12	153.18	191.47	-561.24	1,377.26	1,309.75	67.50	20.402		
8,500.00	8,331.91	14,150.00	9,413.18	38.14	97.12	153.18	191.47	-561.24	1,294.10	1,225.52	68.57	18.872		
8,600.00	8,431.91	14,150.00	9,413.18	38.42	97.12	153.18	191.47	-561.24	1,213.48	1,143.74	69.74	17.401		
8,700.00	8,531.91	14,150.00	9,413.18	38.70	97.12	153.18	191.47	-561.24	1,135.95	1,064.94	71.00	15.998		
8,800.00	8,631.91	14,150.00	9,413.18	38.98	97.12	153.18	191.47	-561.24	1,062.18	989.81	72.37	14.677		
8,900.00	8,731.91	14,150.00	9,413.18	39.26	97.12	153.18	191.47	-561.24	993.01	919.19	73.82	13.453		
9,000.00	8,831.91	14,150.00	9,413.18	39.54	97.12	153.18	191.47	-561.24	929.47	854.15	75.31	12.341		
9,100.00	8,931.91	14,150.00	9,413.18	39.82	97.12	153.18	191.47	-561.24	872.79	795.98	76.80	11.364		
9,200.00	9,031.91	14,150.00	9,413.18	40.11	97.12	153.18	191.47	-561.24	824.38	746.19	78.19	10.544		
9,300.00	9,131.91	14,150.00	9,413.18	40.39	97.12	153.18	191.47	-561.24	785.78	706.43	79.34	9.903		
9,400.00	9,231.91	14,150.00	9,413.18	40.68	97.12	153.18	191.47	-561.24	758.48	678.36	80.12	9.466		
9,500.00	9,331.91	14,150.00	9,413.18	40.97	97.12	153.18	191.47	-561.24	743.73	663.33	80.40	9.250		
9,560.78	9,392.68	14,150.00	9,413.18	41.15	97.12	153.18	191.47	-561.24	741.24	660.94	80.30	9.231	CC, ES, SF	
9,600.00	9,431.91	14,150.00	9,413.18	41.26	97.12	153.18	191.47	-561.24	742.28	662.16	80.12	9.264		
9,700.00	9,531.91	14,150.00	9,413.18	41.55	97.12	153.18	191.47	-561.24	754.21	674.90	79.31	9.509		
9,800.00	9,631.33	14,150.00	9,413.18	41.78	97.12	60.91	191.47	-561.24	774.91	697.33	77.58	9.989		
9,900.00	9,726.75	14,150.00	9,413.18	41.89	97.12	58.46	191.47	-561.24	797.98	723.23	74.75	10.675		
10,000.00	9,813.98	14,150.00	9,413.18	41.92	97.12	55.93	191.47	-561.24	822.24	750.54	71.69	11.469		
10,100.00	9,889.22	14,150.00	9,413.18	41.89	97.12	53.48	191.47	-561.24	846.56	777.10	69.46	12.187		
10,200.00	9,949.18	14,150.00	9,413.18	41.86	97.12	51.20	191.47	-561.24	869.92	800.87	69.05	12.598		
10,300.00	9,991.23	14,150.00	9,413.18	41.86	97.12	49.17	191.47	-561.24	891.42	820.36	71.06	12.544		
10,400.00	10,013.55	14,150.00	9,413.18	41.94	97.12	47.45	191.47	-561.24	910.28	834.81	75.46	12.062		
10,500.00	10,017.50	14,150.00	9,413.18	42.14	97.12	46.68	191.47	-561.24	927.44	845.78	81.66	11.358		
10,600.00	10,018.55	14,150.00	9,413.18	42.54	97.12	46.68	191.47	-561.24	952.95	864.36	88.59	10.757		
10,700.00	10,019.61	14,150.00	9,413.18	43.20	97.12	46.68	191.47	-561.24	987.97	892.46	95.50	10.345		
10,800.00	10,020.66	14,150.00	9,413.18	44.14	97.12	46.68	191.47	-561.24	1,031.52	929.56	101.96	10.117		
10,900.00	10,021.71	14,150.00	9,413.18	45.36	97.12	46.68	191.47	-561.24	1,082.59	974.85	107.75	10.047		
11,000.00	10,022.77	14,150.00	9,413.18	46.81	97.12	46.68	191.47	-561.24	1,140.16	1,027.38	112.78	10.109		
11,100.00	10,023.82	14,150.00	9,413.18	48.46	97.12	46.68	191.47	-561.24	1,203.30	1,086.22	117.09	10.277		
11,200.00	10,024.87	14,150.00	9,413.18	50.28	97.12	46.68	191.47	-561.24	1,271.18	1,150.46	120.73	10.529		
11,300.00	10,025.93	14,150.00	9,413.18	52.25	97.12	46.68	191.47	-561.24	1,343.08	1,219.30	123.78	10.850		
11,400.00	10,026.98	14,150.00	9,413.18	54.33	97.12	46.68	191.47	-561.24	1,418.39	1,292.04	126.35	11.226		
11,500.00	10,028.04	14,150.00	9,413.18	56.52	97.12	46.68	191.47	-561.24	1,496.60	1,368.10	128.49	11.647		
11,600.00	10,029.09	14,150.00	9,413.18	58.79	97.12	46.68	191.47	-561.24	1,577.26	1,446.97	130.30	12.105		
11,700.00	10,030.14	14,150.00	9,413.18	61.15	97.12	46.68	191.47	-561.24	1,660.04	1,528.23	131.81	12.594		
11,800.00	10,031.20	14,150.00	9,413.18	63.57	97.12	46.68	191.47	-561.24	1,744.62	1,611.53	133.09	13.109		
11,900.00	10,032.25	14,150.00	9,413.18	66.06	97.12	46.68	191.47	-561.24	1,830.75	1,696.58	134.17	13.645		
12,000.00	10,033.30	14,150.00	9,413.18	68.60	97.12	46.68	191.47	-561.24	1,918.23	1,783.15	135.09	14.200		

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - MRO Permit PROTO - Wellbore #1 - Design #1											Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF											Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)	
6,100.00	5,935.62	12,952.01	7,800.00	31.20	101.21	-173.82	437.97	-586.68	1,900.92	1,842.42	32.495
6,200.00	6,033.99	12,952.01	7,800.00	31.69	101.21	-173.34	437.97	-586.68	1,810.27	1,750.99	30.540
6,300.00	6,132.92	12,952.01	7,800.00	32.13	101.21	-172.81	437.97	-586.68	1,719.13	1,659.06	28.618
6,400.00	6,232.30	12,952.01	7,800.00	32.52	101.21	-172.22	437.97	-586.68	1,627.55	1,566.66	26.730
6,500.00	6,332.00	12,952.01	7,800.00	32.86	101.21	-171.55	437.97	-586.68	1,535.56	1,473.84	24.877
6,600.00	6,431.91	12,952.01	7,800.00	33.16	101.21	-170.82	437.97	-586.68	1,443.22	1,380.63	23.061
6,700.00	6,531.91	12,952.01	7,800.00	33.42	101.21	143.33	437.97	-586.68	1,350.63	1,287.16	21.282
6,800.00	6,631.91	12,952.01	7,800.00	33.66	101.21	143.33	437.97	-586.68	1,258.84	1,194.41	19.537
6,900.00	6,731.91	12,952.01	7,800.00	33.91	101.21	143.33	437.97	-586.68	1,168.40	1,102.86	17.828
7,000.00	6,831.91	12,952.01	7,800.00	34.16	101.21	143.33	437.97	-586.68	1,079.65	1,012.84	16.162
7,100.00	6,931.91	12,952.01	7,800.00	34.42	101.21	143.33	437.97	-586.68	993.04	924.77	14.547
7,200.00	7,031.91	12,952.01	7,800.00	34.67	101.21	143.33	437.97	-586.68	909.18	839.23	12.998
7,300.00	7,131.91	12,952.01	7,800.00	34.93	101.21	143.33	437.97	-586.68	828.90	757.01	11.529
7,400.00	7,231.91	12,952.01	7,800.00	35.19	101.21	143.33	437.97	-586.68	753.37	679.26	10.165
7,500.00	7,331.91	12,952.01	7,800.00	35.45	101.21	143.33	437.97	-586.68	684.14	607.57	8.935
7,600.00	7,431.91	12,952.01	7,800.00	35.71	101.21	143.33	437.97	-586.68	623.32	544.17	7.876
7,700.00	7,531.91	12,952.01	7,800.00	35.98	101.21	143.33	437.97	-586.68	573.59	492.05	7.034
7,800.00	7,631.91	12,952.01	7,800.00	36.24	101.21	143.33	437.97	-586.68	538.04	454.75	6.460
7,900.00	7,731.91	12,952.01	7,800.00	36.51	101.21	143.33	437.97	-586.68	519.59	435.75	6.197
7,947.59	7,779.50	12,952.01	7,800.00	36.64	101.21	143.33	437.97	-586.68	517.40	433.84	6.191 CC, ES, SF
8,000.00	7,831.91	12,952.01	7,800.00	36.78	101.21	143.33	437.97	-586.68	520.05	437.19	6.276
8,100.00	7,931.91	12,952.01	7,800.00	37.05	101.21	143.33	437.97	-586.68	539.38	458.84	6.697
8,200.00	8,031.91	12,952.01	7,800.00	37.32	101.21	143.33	437.97	-586.68	575.69	498.21	7.431
8,300.00	8,131.91	12,952.01	7,800.00	37.59	101.21	143.33	437.97	-586.68	626.02	551.73	8.427
8,400.00	8,231.91	12,952.01	7,800.00	37.87	101.21	143.33	437.97	-586.68	687.30	615.89	9.625
8,500.00	8,331.91	12,952.01	7,800.00	38.14	101.21	143.33	437.97	-586.68	756.87	687.87	10.968
8,600.00	8,431.91	12,952.01	7,800.00	38.42	101.21	143.33	437.97	-586.68	832.67	765.56	12.407
8,700.00	8,531.91	12,952.01	7,800.00	38.70	101.21	143.33	437.97	-586.68	913.14	847.48	13.908
8,800.00	8,631.91	12,952.01	7,800.00	38.98	101.21	143.33	437.97	-586.68	997.15	932.57	15.442
8,900.00	8,731.91	12,952.01	7,800.00	39.26	101.21	143.33	437.97	-586.68	1,083.87	1,020.09	16.993
9,000.00	8,831.91	12,952.01	7,800.00	39.54	101.21	143.33	437.97	-586.68	1,172.72	1,109.49	18.549
9,100.00	8,931.91	12,952.01	7,800.00	39.82	101.21	143.33	437.97	-586.68	1,263.23	1,200.38	20.101
9,200.00	9,031.91	12,952.01	7,800.00	40.11	101.21	143.33	437.97	-586.68	1,355.08	1,292.47	21.645
9,300.00	9,131.91	12,952.01	7,800.00	40.39	101.21	143.33	437.97	-586.68	1,448.00	1,385.53	23.177
9,400.00	9,231.91	12,952.01	7,800.00	40.68	101.21	143.33	437.97	-586.68	1,541.81	1,479.38	24.697
9,500.00	9,331.91	12,952.01	7,800.00	40.97	101.21	143.33	437.97	-586.68	1,636.36	1,573.91	26.202
9,600.00	9,431.91	12,952.01	7,800.00	41.26	101.21	143.33	437.97	-586.68	1,731.52	1,668.99	27.691
9,700.00	9,531.91	12,952.01	7,800.00	41.55	101.21	143.33	437.97	-586.68	1,827.19	1,764.54	29.165
9,800.00	9,631.33	12,952.01	7,800.00	41.78	101.21	32.43	437.97	-586.68	1,921.34	1,858.62	30.634

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-212H - Wellbore #1 - Plan 4												Offset Site Error:	0.00 usft
Survey Program: 0-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	0.00	0.00	0.50	0.50	90.26	-0.36	79.94	79.97				
100.00	100.00	98.00	98.00	0.52	0.52	90.26	-0.36	79.94	79.94	78.91	1.03	77.251	
200.00	200.00	198.00	198.00	0.70	0.70	90.26	-0.36	79.94	79.94	78.54	1.40	57.134	
300.00	300.00	298.00	298.00	0.99	0.98	90.26	-0.36	79.94	79.94	77.97	1.97	40.610	
400.00	400.00	398.00	398.00	1.31	1.30	90.26	-0.36	79.94	79.94	77.33	2.61	30.610	
500.00	500.00	498.00	498.00	1.65	1.64	90.26	-0.36	79.94	79.94	76.66	3.29	24.333	
600.00	600.00	598.00	598.00	1.99	1.98	90.26	-0.36	79.94	79.94	75.97	3.97	20.115	
700.00	700.00	698.00	698.00	2.34	2.33	90.26	-0.36	79.94	79.94	75.27	4.67	17.112	
800.00	800.00	798.00	798.00	2.69	2.68	90.26	-0.36	79.94	79.94	74.57	5.37	14.875	
900.00	900.00	898.00	898.00	3.04	3.04	90.26	-0.36	79.94	79.94	73.86	6.08	13.148	
1,000.00	1,000.00	998.00	998.00	3.40	3.39	90.26	-0.36	79.94	79.94	73.15	6.79	11.776	
1,100.00	1,100.00	1,098.00	1,098.00	3.75	3.75	90.26	-0.36	79.94	79.94	72.44	7.50	10.661	
1,200.00	1,200.00	1,198.00	1,198.00	4.11	4.10	90.26	-0.36	79.94	79.94	71.73	8.21	9.738	
1,300.00	1,300.00	1,298.00	1,298.00	4.46	4.46	90.26	-0.36	79.94	79.94	71.02	8.92	8.961	
1,400.00	1,400.00	1,398.00	1,398.00	4.82	4.81	90.26	-0.36	79.94	79.94	70.31	9.63	8.298 CC, ES	
1,500.00	1,500.00	1,495.52	1,495.50	5.18	5.16	89.81	0.26	81.41	81.44	71.11	10.33	7.885 SF	
1,600.00	1,599.98	1,592.70	1,592.55	5.53	5.50	135.65	2.17	85.90	87.34	76.33	11.01	7.934	
1,700.00	1,699.84	1,689.14	1,688.64	5.89	5.84	135.76	5.34	93.36	98.84	87.16	11.68	8.465	
1,800.00	1,799.45	1,784.38	1,783.22	6.24	6.18	136.28	9.71	103.64	115.88	103.55	12.33	9.397	
1,900.00	1,898.70	1,877.99	1,875.77	6.61	6.53	136.97	15.20	116.55	138.39	125.42	12.98	10.665	
2,000.00	1,997.47	1,969.57	1,965.82	6.98	6.89	137.65	21.72	131.88	166.27	152.66	13.61	12.216	
2,100.00	2,095.62	2,061.56	2,055.79	7.38	7.27	138.31	29.24	149.57	199.03	184.75	14.28	13.940	
2,200.00	2,193.06	2,154.87	2,146.96	7.80	7.67	139.19	37.00	167.82	234.65	219.66	14.99	15.654	
2,300.00	2,289.64	2,247.07	2,237.05	8.25	8.07	140.18	44.67	185.86	272.86	257.14	15.71	17.365	
2,400.00	2,385.54	2,338.39	2,326.28	8.73	8.48	141.49	52.26	203.73	313.02	296.58	16.44	19.035	
2,500.00	2,481.41	2,429.67	2,415.48	9.24	8.90	142.64	59.85	221.59	353.41	336.23	17.18	20.568	
2,600.00	2,577.28	2,520.94	2,504.67	9.76	9.33	143.55	67.44	239.44	393.90	375.97	17.93	21.969	
2,700.00	2,673.15	2,612.22	2,593.86	10.30	9.76	144.29	75.03	257.30	434.45	415.76	18.69	23.250	
2,800.00	2,769.02	2,703.50	2,683.05	10.85	10.20	144.90	82.62	275.16	475.05	455.60	19.45	24.424	
2,900.00	2,864.88	2,794.78	2,772.24	11.41	10.64	145.42	90.22	293.02	515.69	495.47	20.22	25.502	
3,000.00	2,960.75	2,886.05	2,861.43	11.98	11.09	145.86	97.81	310.88	556.37	535.37	21.00	26.495	
3,100.00	3,056.62	2,977.33	2,950.62	12.56	11.54	146.24	105.40	328.73	597.06	575.28	21.78	27.410	
3,200.00	3,152.49	3,068.61	3,039.81	13.15	11.99	146.58	112.99	346.59	637.77	615.20	22.57	28.257	
3,300.00	3,248.35	3,159.89	3,129.00	13.74	12.45	146.87	120.58	364.45	678.50	655.14	23.36	29.042	
3,400.00	3,344.22	3,251.16	3,218.19	14.34	12.91	147.13	128.17	382.31	719.25	695.09	24.16	29.771	
3,500.00	3,440.09	3,342.44	3,307.39	14.94	13.37	147.36	135.76	400.17	760.00	735.04	24.96	30.449	
3,600.00	3,535.96	3,433.72	3,396.58	15.55	13.84	147.57	143.35	418.03	800.77	775.00	25.76	31.081	
3,700.00	3,631.82	3,525.00	3,485.77	16.16	14.30	147.76	150.95	435.88	841.54	814.97	26.57	31.672	
3,800.00	3,727.69	3,616.27	3,574.96	16.77	14.77	147.93	158.54	453.74	882.32	854.94	27.38	32.225	
3,900.00	3,823.56	3,707.55	3,664.15	17.39	15.24	148.09	166.13	471.60	923.10	894.91	28.19	32.743	
4,000.00	3,919.43	3,798.83	3,753.34	18.01	15.71	148.23	173.72	489.46	963.89	934.89	29.01	33.229	
4,100.00	4,015.29	3,890.11	3,842.53	18.64	16.18	148.36	181.31	507.32	1,004.69	974.86	29.82	33.687	
4,200.00	4,111.16	3,981.38	3,931.72	19.26	16.66	148.48	188.90	525.17	1,045.49	1,014.84	30.64	34.118	
4,300.00	4,207.03	4,072.66	4,020.91	19.89	17.13	148.59	196.49	543.03	1,086.29	1,054.82	31.46	34.525	
4,400.00	4,302.90	4,163.94	4,110.10	20.52	17.60	148.70	204.08	560.89	1,127.09	1,094.81	32.29	34.909	
4,500.00	4,398.76	4,255.22	4,199.29	21.15	18.08	148.79	211.67	578.75	1,167.90	1,134.79	33.11	35.272	
4,600.00	4,494.63	4,346.49	4,288.49	21.78	18.56	148.88	219.27	596.61	1,208.71	1,174.78	33.94	35.616	
4,700.00	4,590.50	4,437.77	4,377.68	22.41	19.04	148.97	226.86	614.46	1,249.53	1,214.76	34.76	35.943	
4,800.00	4,686.37	4,529.05	4,466.87	23.05	19.51	149.05	234.45	632.32	1,290.34	1,254.75	35.59	36.252	
4,900.00	4,782.23	4,620.32	4,556.06	23.68	19.99	149.12	242.04	650.18	1,331.16	1,294.74	36.42	36.547	
5,000.00	4,878.10	4,711.60	4,645.25	24.32	20.47	149.19	249.63	668.04	1,371.98	1,334.72	37.25	36.827	
5,100.00	4,973.97	4,802.88	4,734.44	24.95	20.95	149.26	257.22	685.90	1,412.80	1,374.71	38.09	37.094	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-212H - Wellbore #1 - Plan 4													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IGRF		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.50 usft
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance					
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,200.00	5,069.84	4,894.16	4,823.63	25.59	21.43	149.32	264.81	703.75	1,453.62	1,414.70	38.92	37.349			
5,300.00	5,165.71	4,985.43	4,912.82	26.23	21.92	149.38	272.40	721.61	1,494.44	1,454.69	39.75	37.592			
5,400.00	5,261.57	5,076.71	5,002.01	26.87	22.40	149.43	279.99	739.47	1,535.27	1,494.68	40.59	37.824			
5,500.00	5,357.44	5,167.99	5,091.20	27.51	22.88	149.49	287.59	757.33	1,576.09	1,534.67	41.43	38.046			
5,600.00	5,453.31	5,259.27	5,180.40	28.16	23.36	149.53	295.18	775.19	1,616.92	1,574.66	42.26	38.258			
5,700.00	5,549.18	5,350.54	5,269.59	28.80	23.85	149.58	302.77	793.04	1,657.75	1,614.65	43.10	38.461			
5,800.00	5,645.04	5,441.82	5,358.78	29.44	24.33	149.63	310.36	810.90	1,698.58	1,654.64	43.94	38.656			
5,900.00	5,741.08	5,533.31	5,448.17	30.07	24.82	149.92	317.97	828.80	1,738.94	1,694.16	44.78	38.835			
6,000.00	5,837.95	5,625.87	5,538.62	30.66	25.31	150.30	325.67	846.91	1,776.76	1,731.15	45.61	38.957			
6,100.00	5,935.62	5,719.51	5,630.12	31.20	25.80	150.58	333.45	865.23	1,811.75	1,765.32	46.43	39.021			
6,200.00	6,033.99	5,814.11	5,722.56	31.69	26.31	150.78	341.32	883.74	1,843.89	1,796.65	47.24	39.030			
6,300.00	6,132.92	5,909.55	5,815.82	32.13	26.81	150.89	349.26	902.41	1,873.15	1,825.10	48.04	38.988			
6,400.00	6,232.30	6,005.73	5,909.79	32.52	27.32	150.92	357.26	921.23	1,899.50	1,850.67	48.83	38.897			
6,500.00	6,332.00	6,102.51	6,004.37	32.86	27.84	150.88	365.31	940.16	1,922.93	1,873.32	49.61	38.762			
10,300.00	9,991.23	9,659.85	9,380.99	41.86	42.35	2.33	798.84	1,226.51	1,900.26	1,827.08	73.17	25.969			
10,400.00	10,013.55	9,666.44	9,382.59	41.94	42.40	2.82	805.19	1,227.26	1,815.98	1,743.27	72.71	24.975			
10,500.00	10,017.50	9,675.00	9,384.52	42.14	42.46	2.88	813.47	1,228.23	1,724.12	1,651.79	72.33	23.836			
10,600.00	10,018.55	9,675.00	9,384.52	42.54	42.46	2.88	813.47	1,228.23	1,631.90	1,560.09	71.82	22.723			
10,700.00	10,019.61	9,675.00	9,384.52	43.20	42.46	2.88	813.47	1,228.23	1,540.65	1,469.44	71.21	21.635			
10,800.00	10,020.66	9,685.03	9,386.59	44.14	42.53	2.03	823.21	1,229.38	1,450.47	1,379.86	70.61	20.542			
10,900.00	10,021.71	9,689.64	9,387.46	45.36	42.57	1.63	827.71	1,229.91	1,361.66	1,291.83	69.82	19.501			
11,000.00	10,022.77	9,700.00	9,389.25	46.81	42.65	0.73	837.85	1,231.10	1,274.49	1,205.54	68.94	18.486			
11,100.00	10,023.82	9,700.00	9,389.25	48.46	42.65	0.73	837.85	1,231.10	1,189.23	1,121.47	67.75	17.552			
11,200.00	10,024.87	9,700.00	9,389.25	50.28	42.65	0.73	837.85	1,231.10	1,106.44	1,040.11	66.32	16.682			
11,300.00	10,025.93	9,708.14	9,390.49	52.25	42.71	0.02	845.84	1,232.04	1,026.64	961.94	64.70	15.869			
11,400.00	10,026.98	9,712.79	9,391.13	54.33	42.74	-0.39	850.41	1,232.57	950.63	887.95	62.68	15.167			
11,500.00	10,028.04	9,717.43	9,391.72	56.52	42.78	-0.80	854.98	1,233.11	879.37	819.11	60.26	14.592			
11,600.00	10,029.09	9,725.00	9,392.58	58.79	42.84	-1.47	862.45	1,233.99	814.13	756.65	57.49	14.162			
11,700.00	10,030.14	9,725.00	9,392.58	61.15	42.84	-1.47	862.45	1,233.99	756.43	702.19	54.24	13.946			
11,800.00	10,031.20	9,725.00	9,392.58	63.57	42.84	-1.47	862.45	1,233.99	708.21	657.36	50.85	13.929			
11,900.00	10,032.25	9,736.04	9,393.60	66.06	42.92	-2.45	873.36	1,235.27	671.30	623.25	48.05	13.971			
12,000.00	10,033.30	9,740.69	9,393.94	68.60	42.96	-2.86	877.97	1,235.81	647.85	601.73	46.12	14.046			
12,100.00	10,034.36	9,750.00	9,394.49	71.19	43.03	-3.69	887.20	1,236.90	639.32	593.24	46.08	13.874			
12,105.97	10,034.42	9,750.00	9,394.49	71.34	43.03	-3.69	887.20	1,236.90	639.29	593.17	46.12	13.862			
12,200.00	10,035.41	9,750.00	9,394.49	73.82	43.03	-3.69	887.20	1,236.90	646.17	598.50	47.67	13.555			
12,300.00	10,036.47	9,750.00	9,394.49	76.48	43.03	-3.69	887.20	1,236.90	668.09	617.21	50.88	13.131			
12,400.00	10,037.52	9,759.25	9,394.84	79.18	43.10	-4.51	896.39	1,237.97	703.52	648.27	55.25	12.733			
12,500.00	10,038.57	9,763.88	9,394.94	81.92	43.14	-4.92	900.98	1,238.51	750.65	691.26	59.39	12.639			
12,600.00	10,039.63	9,772.86	9,395.00	84.68	43.21	-5.72	909.89	1,239.56	807.44	744.19	63.25	12.765			
12,700.00	10,040.68	9,772.86	9,395.00	87.46	43.21	-5.72	909.89	1,239.56	871.92	805.76	66.17	13.177			
12,800.00	10,041.74	9,782.51	9,394.97	90.27	43.28	-6.57	919.49	1,240.67	942.56	873.67	68.89	13.682			
12,900.00	10,042.79	9,791.15	9,394.94	93.10	43.35	-7.33	928.07	1,241.64	1,018.04	946.96	71.08	14.322			
13,000.00	10,043.84	9,800.00	9,394.91	95.94	43.42	-8.11	936.87	1,242.60	1,097.36	1,024.48	72.88	15.058			
13,100.00	10,044.90	9,800.00	9,394.91	98.81	43.42	-8.11	936.87	1,242.60	1,179.78	1,105.74	74.05	15.933			
13,200.00	10,045.95	9,814.44	9,394.86	101.69	43.54	-9.37	951.23	1,244.11	1,264.63	1,189.16	75.48	16.755			
13,300.00	10,047.00	9,821.44	9,394.83	104.58	43.59	-9.98	958.19	1,244.82	1,351.53	1,275.07	76.46	17.677			
13,400.00	10,048.06	9,828.10	9,394.81	107.49	43.65	-10.55	964.82	1,245.48	1,440.08	1,362.81	77.27	18.637			
13,500.00	10,049.11	9,834.46	9,394.79	110.41	43.70	-11.10	971.15	1,246.09	1,530.01	1,452.05	77.96	19.626			
13,600.00	10,050.17	9,840.52	9,394.77	113.34	43.75	-11.62	977.18	1,246.66	1,621.07	1,542.53	78.54	20.640			
13,700.00	10,051.22	9,846.31	9,394.75	116.28	43.80	-12.12	982.95	1,247.19	1,713.11	1,634.07	79.04	21.673			
13,800.00	10,052.27	9,851.85	9,394.73	119.23	43.84	-12.59	988.46	1,247.69	1,805.96	1,726.48	79.48	22.722			
13,900.00	10,053.33	9,857.14	9,394.71	122.19	43.88	-13.04	993.74	1,248.16	1,899.52	1,819.66	79.86	23.785			

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum



Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-221H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	0.00	0.00	0.50	0.50	90.17	-0.12	39.98	39.98				
100.00	100.00	100.00	100.00	0.52	0.52	90.17	-0.12	39.98	39.98	38.94	1.04	38.609	
200.00	200.00	200.00	200.00	0.70	0.70	90.17	-0.12	39.98	39.98	38.58	1.40	28.472	
300.00	300.00	300.00	300.00	0.99	0.99	90.17	-0.12	39.98	39.98	38.01	1.97	20.247	
400.00	400.00	400.00	400.00	1.31	1.31	90.17	-0.12	39.98	39.98	37.36	2.62	15.270	
500.00	500.00	500.00	500.00	1.65	1.65	90.17	-0.12	39.98	39.98	36.69	3.29	12.144	
600.00	600.00	600.00	600.00	1.99	1.99	90.17	-0.12	39.98	39.98	36.00	3.98	10.042	
700.00	700.00	700.00	700.00	2.34	2.34	90.17	-0.12	39.98	39.98	35.30	4.68	8.545	
800.00	800.00	800.00	800.00	2.69	2.69	90.17	-0.12	39.98	39.98	34.60	5.38	7.430	
900.00	900.00	900.00	900.00	3.04	3.04	90.17	-0.12	39.98	39.98	33.89	6.09	6.568	
1,000.00	1,000.00	1,000.00	1,000.00	3.40	3.40	90.17	-0.12	39.98	39.98	33.18	6.80	5.883	
1,100.00	1,100.00	1,100.00	1,100.00	3.75	3.75	90.17	-0.12	39.98	39.98	32.47	7.51	5.327	
1,200.00	1,200.00	1,200.00	1,200.00	4.11	4.11	90.17	-0.12	39.98	39.98	31.76	8.22	4.866	
1,300.00	1,300.00	1,300.00	1,300.00	4.46	4.46	90.17	-0.12	39.98	39.98	31.05	8.93	4.478	
1,400.00	1,400.00	1,400.00	1,400.00	4.82	4.82	90.17	-0.12	39.98	39.98	30.34	9.64	4.147	
1,500.00	1,500.00	1,500.00	1,500.00	5.18	5.18	90.17	-0.12	39.98	39.98	29.63	10.35	3.861 CC, ES	
1,600.00	1,599.98	1,599.22	1,599.20	5.53	5.53	136.17	1.34	40.89	42.16	31.10	11.06	3.812 SF	
1,700.00	1,699.84	1,698.16	1,698.00	5.89	5.88	135.18	5.69	43.60	48.70	36.94	11.76	4.142	
1,800.00	1,799.45	1,796.53	1,796.00	6.24	6.23	133.99	12.89	48.09	59.59	47.14	12.45	4.786	
1,900.00	1,898.70	1,894.88	1,893.70	6.61	6.59	133.21	22.49	54.07	74.50	61.34	13.16	5.663	
2,000.00	1,997.47	1,993.33	1,991.45	6.98	6.95	134.02	32.37	60.22	91.96	78.09	13.88	6.627	
2,100.00	2,095.62	2,091.25	2,088.69	7.38	7.32	135.75	42.19	66.34	111.90	97.29	14.61	7.660	
2,200.00	2,193.06	2,188.54	2,185.30	7.80	7.69	137.87	51.95	72.43	134.44	119.09	15.35	8.760	
2,300.00	2,289.64	2,285.07	2,281.15	8.25	8.06	140.10	61.64	78.46	159.74	143.65	16.10	9.925	
2,400.00	2,385.54	2,380.98	2,376.38	8.73	8.43	142.37	71.26	84.46	187.21	170.36	16.85	11.111	
2,500.00	2,481.41	2,476.85	2,471.59	9.24	8.80	144.14	80.88	90.45	214.99	197.39	17.61	12.210	
2,600.00	2,577.28	2,572.73	2,566.79	9.76	9.18	145.51	90.50	96.44	242.92	224.55	18.37	13.222	
2,700.00	2,673.15	2,668.60	2,662.00	10.30	9.55	146.60	100.12	102.44	270.96	251.81	19.14	14.154	
2,800.00	2,769.02	2,764.48	2,757.20	10.85	9.93	147.49	109.74	108.43	299.06	279.14	19.92	15.014	
2,900.00	2,864.88	2,860.36	2,852.40	11.41	10.31	148.22	119.36	114.42	327.22	306.52	20.70	15.808	
3,000.00	2,960.75	2,956.23	2,947.61	11.98	10.69	148.84	128.98	120.42	355.43	333.94	21.49	16.543	
3,100.00	3,056.62	3,052.11	3,042.81	12.56	11.07	149.36	138.60	126.41	383.66	361.39	22.27	17.224	
3,200.00	3,152.49	3,147.98	3,138.02	13.15	11.46	149.82	148.22	132.40	411.92	388.85	23.07	17.858	
3,300.00	3,248.35	3,243.86	3,233.22	13.74	11.84	150.21	157.84	138.40	440.20	416.34	23.86	18.447	
3,400.00	3,344.22	3,339.74	3,328.42	14.34	12.23	150.56	167.46	144.39	468.50	443.84	24.66	18.997	
3,500.00	3,440.09	3,435.61	3,423.63	14.94	12.62	150.87	177.08	150.38	496.81	471.35	25.46	19.511	
3,600.00	3,535.96	3,531.49	3,518.83	15.55	13.00	151.15	186.70	156.38	525.13	498.87	26.27	19.992	
3,700.00	3,631.82	3,627.36	3,614.03	16.16	13.39	151.39	196.32	162.37	553.47	526.39	27.07	20.443	
3,800.00	3,727.69	3,723.24	3,709.24	16.77	13.78	151.62	205.94	168.37	581.81	553.93	27.88	20.868	
3,900.00	3,823.56	3,819.12	3,804.44	17.39	14.17	151.82	215.56	174.36	610.16	581.47	28.69	21.267	
4,000.00	3,919.43	3,914.99	3,899.65	18.01	14.56	152.00	225.18	180.35	638.52	609.01	29.50	21.643	
4,100.00	4,015.29	4,010.87	3,994.85	18.64	14.95	152.17	234.79	186.35	666.88	636.56	30.32	21.998	
4,200.00	4,111.16	4,106.75	4,090.05	19.26	15.34	152.33	244.41	192.34	695.24	664.11	31.13	22.333	
4,300.00	4,207.03	4,202.62	4,185.26	19.89	15.74	152.47	254.03	198.33	723.61	691.67	31.95	22.651	
4,400.00	4,302.90	4,298.50	4,280.46	20.52	16.13	152.60	263.65	204.33	751.99	719.22	32.76	22.952	
4,500.00	4,398.76	4,394.37	4,375.67	21.15	16.52	152.72	273.27	210.32	780.37	746.78	33.58	23.237	
4,600.00	4,494.63	4,490.25	4,470.87	21.78	16.91	152.84	282.89	216.31	808.75	774.35	34.40	23.509	
4,700.00	4,590.50	4,586.13	4,566.07	22.41	17.31	152.94	292.51	222.31	837.13	801.91	35.22	23.767	
4,800.00	4,686.37	4,682.00	4,661.28	23.05	17.70	153.04	302.13	228.30	865.52	829.47	36.04	24.013	
4,900.00	4,782.23	4,777.88	4,756.48	23.68	18.09	153.13	311.75	234.29	893.91	857.04	36.87	24.247	
5,000.00	4,878.10	4,873.75	4,851.68	24.32	18.49	153.22	321.37	240.29	922.30	884.61	37.69	24.471	
5,100.00	4,973.97	4,969.63	4,946.89	24.95	18.88	153.30	330.99	246.28	950.69	912.17	38.51	24.685	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-221H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IGRF					Rule Assigned:							Offset Well Error:	0.50 usft
Reference	Offset	Reference	Offset	Semi Major Axis	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	(usft)				
5,200.00	5,069.84	5,065.51	5,042.09	25.59	19.28	153.38	340.61	252.27	979.08	939.74	39.34	24.889			
5,300.00	5,165.71	5,161.38	5,137.30	26.23	19.67	153.45	350.23	258.27	1,007.48	967.31	40.16	25.084			
5,400.00	5,261.57	5,257.26	5,232.50	26.87	20.07	153.52	359.85	264.26	1,035.87	994.88	40.99	25.272			
5,500.00	5,357.44	5,353.14	5,327.70	27.51	20.46	153.59	369.47	270.26	1,064.27	1,022.46	41.82	25.451			
5,600.00	5,453.31	5,449.01	5,422.91	28.16	20.86	153.65	379.09	276.25	1,092.67	1,050.03	42.64	25.623			
5,700.00	5,549.18	5,544.89	5,518.11	28.80	21.25	153.71	388.71	282.24	1,121.07	1,077.60	43.47	25.788			
5,800.00	5,645.04	5,640.76	5,613.32	29.44	21.65	153.76	398.33	288.24	1,149.47	1,105.17	44.30	25.947			
5,900.00	5,741.08	5,736.79	5,708.67	30.07	22.04	153.95	407.96	294.24	1,177.36	1,132.24	45.13	26.089			
6,000.00	5,837.95	5,833.57	5,804.77	30.66	22.44	154.15	417.67	300.29	1,202.49	1,156.54	45.95	26.168			
6,100.00	5,935.62	5,931.08	5,901.59	31.20	22.85	154.24	427.46	306.39	1,224.57	1,177.80	46.77	26.181			
6,200.00	6,033.99	6,029.18	5,999.01	31.69	23.25	154.24	437.30	312.52	1,243.58	1,195.99	47.59	26.132			
6,300.00	6,132.92	6,127.77	6,096.91	32.13	23.66	154.14	447.19	318.68	1,259.51	1,211.11	48.40	26.025			
6,400.00	6,232.30	6,230.91	6,199.35	32.52	24.08	153.95	457.32	324.99	1,272.30	1,223.08	49.22	25.848			
6,500.00	6,332.00	6,342.78	6,310.81	32.86	24.52	153.78	465.44	330.05	1,281.25	1,231.19	50.07	25.590			
6,600.00	6,431.91	6,455.31	6,423.21	33.16	24.92	153.69	469.88	332.82	1,286.12	1,235.27	50.85	25.292			
6,700.00	6,531.91	6,564.02	6,531.91	33.42	25.29	107.28	470.75	333.36	1,287.07	1,235.52	51.55	24.969			
6,800.00	6,631.91	6,664.02	6,631.91	33.66	25.61	107.28	470.75	333.36	1,287.07	1,234.89	52.18	24.667			
6,900.00	6,731.91	6,764.02	6,731.91	33.91	25.94	107.28	470.75	333.36	1,287.07	1,234.26	52.81	24.371			
7,000.00	6,831.91	6,864.02	6,831.91	34.16	26.27	107.28	470.75	333.36	1,287.07	1,233.63	53.45	24.081			
7,100.00	6,931.91	6,964.02	6,931.91	34.42	26.59	107.28	470.75	333.36	1,287.07	1,232.99	54.08	23.798			
7,200.00	7,031.91	7,064.02	7,031.91	34.67	26.92	107.28	470.75	333.36	1,287.07	1,232.35	54.72	23.520			
7,300.00	7,131.91	7,164.02	7,131.91	34.93	27.25	107.28	470.75	333.36	1,287.07	1,231.71	55.36	23.247			
7,400.00	7,231.91	7,264.02	7,231.91	35.19	27.58	107.28	470.75	333.36	1,287.07	1,231.07	56.01	22.981			
7,500.00	7,331.91	7,364.02	7,331.91	35.45	27.92	107.28	470.75	333.36	1,287.07	1,230.42	56.65	22.719			
7,600.00	7,431.91	7,464.02	7,431.91	35.71	28.25	107.28	470.75	333.36	1,287.07	1,229.78	57.30	22.463			
7,700.00	7,531.91	7,564.02	7,531.91	35.98	28.58	107.28	470.75	333.36	1,287.07	1,229.13	57.95	22.212			
7,800.00	7,631.91	7,664.02	7,631.91	36.24	28.91	107.28	470.75	333.36	1,287.07	1,228.48	58.60	21.966			
7,900.00	7,731.91	7,764.02	7,731.91	36.51	29.25	107.28	470.75	333.36	1,287.07	1,227.83	59.25	21.724			
8,000.00	7,831.91	7,864.02	7,831.91	36.78	29.58	107.28	470.75	333.36	1,287.07	1,227.17	59.90	21.487			
8,100.00	7,931.91	7,964.02	7,931.91	37.05	29.92	107.28	470.75	333.36	1,287.07	1,226.52	60.55	21.255			
8,200.00	8,031.91	8,064.02	8,031.91	37.32	30.25	107.28	470.75	333.36	1,287.07	1,225.86	61.21	21.028			
8,300.00	8,131.91	8,164.02	8,131.91	37.59	30.59	107.28	470.75	333.36	1,287.07	1,225.21	61.86	20.805			
8,400.00	8,231.91	8,264.02	8,231.91	37.87	30.92	107.28	470.75	333.36	1,287.07	1,224.55	62.52	20.586			
8,500.00	8,331.91	8,364.02	8,331.91	38.14	31.26	107.28	470.75	333.36	1,287.07	1,223.89	63.18	20.371			
8,600.00	8,431.91	8,464.02	8,431.91	38.42	31.60	107.28	470.75	333.36	1,287.07	1,223.23	63.84	20.160			
8,700.00	8,531.91	8,564.02	8,531.91	38.70	31.94	107.28	470.75	333.36	1,287.07	1,222.57	64.50	19.953			
8,800.00	8,631.91	8,664.02	8,631.91	38.98	32.28	107.28	470.75	333.36	1,287.07	1,221.91	65.17	19.750			
8,900.00	8,731.91	8,764.02	8,731.91	39.26	32.61	107.28	470.75	333.36	1,287.07	1,221.24	65.83	19.551			
9,000.00	8,831.91	8,864.02	8,831.91	39.54	32.95	107.28	470.75	333.36	1,287.07	1,220.58	66.50	19.355			
9,100.00	8,931.91	8,964.02	8,931.91	39.82	33.29	107.28	470.75	333.36	1,287.07	1,219.91	67.16	19.163			
9,200.00	9,031.91	9,064.02	9,031.91	40.11	33.63	107.28	470.75	333.36	1,287.07	1,219.24	67.83	18.975			
9,300.00	9,131.91	9,324.60	9,286.82	40.39	34.68	105.58	510.33	333.43	1,285.32	1,215.99	69.33	18.540			
9,400.00	9,231.91	9,619.06	9,495.97	40.68	36.48	96.65	709.73	333.80	1,265.61	1,193.94	71.67	17.658			
9,500.00	9,331.91	9,713.78	9,530.11	40.97	37.19	92.57	797.88	333.96	1,246.69	1,173.23	73.46	16.972			
9,600.00	9,431.91	9,747.91	9,537.63	41.26	37.45	91.02	831.16	334.02	1,234.39	1,159.83	74.56	16.556			
9,700.00	9,531.91	9,766.51	9,540.63	41.55	37.60	90.16	849.52	334.05	1,229.73	1,154.55	75.18	16.358			
9,800.00	9,631.33	9,778.12	9,542.11	41.78	37.70	-0.57	861.03	334.07	1,224.09	1,148.76	75.33	16.250			
9,900.00	9,726.75	9,785.79	9,542.92	41.89	37.76	-0.96	868.65	334.09	1,205.70	1,130.68	75.02	16.071			
10,000.00	9,813.98	9,790.99	9,543.40	41.92	37.80	-1.30	873.83	334.10	1,174.78	1,100.49	74.29	15.814			
10,100.00	9,889.22	9,800.00	9,544.07	41.89	37.87	-1.96	882.82	334.11	1,131.76	1,058.52	73.24	15.453			
10,200.00	9,949.18	9,800.00	9,544.07	41.86	37.87	-2.25	882.82	334.11	1,077.17	1,005.41	71.75	15.012			
10,300.00	9,991.23	9,800.00	9,544.07	41.86	37.87	-2.70	882.82	334.11	1,011.79	941.76	70.03	14.447			

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-221H - Wellbore #1 - Plan 3											Offset Site Error:	0.00 usft
Survey Program: 0-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
10,400.00	10,013.55	9,800.00	9,544.07	41.94	37.87	-3.43	882.82	334.11	936.57	868.39	68.18	13.736
10,500.00	10,017.50	9,800.00	9,544.07	42.14	37.87	-4.02	882.82	334.11	853.90	787.63	66.27	12.885
10,600.00	10,018.55	9,800.00	9,544.07	42.54	37.87	-4.02	882.82	334.11	773.42	709.55	63.87	12.109
10,700.00	10,019.61	9,800.00	9,544.07	43.20	37.87	-4.02	882.82	334.11	698.01	637.24	60.77	11.486
10,800.00	10,020.66	9,800.00	9,544.07	44.14	37.87	-4.02	882.82	334.11	629.49	572.69	56.80	11.082
10,900.00	10,021.71	9,800.00	9,544.07	45.36	37.87	-4.02	882.82	334.11	570.35	518.38	51.97	10.975
11,000.00	10,022.77	9,800.00	9,544.07	46.81	37.87	-4.02	882.82	334.11	523.77	477.06	46.71	11.212
11,100.00	10,023.82	9,800.00	9,544.07	48.46	37.87	-4.02	882.82	334.11	493.33	450.90	42.43	11.627
11,200.00	10,024.87	9,800.00	9,544.07	50.28	37.87	-4.02	882.82	334.11	482.09	440.81	41.28	11.680
11,204.81	10,024.93	9,800.00	9,544.07	50.38	37.87	-4.02	882.82	334.11	482.07	440.74	41.33	11.664
11,300.00	10,025.93	9,800.00	9,544.07	52.25	37.87	-4.02	882.82	334.11	491.37	447.10	44.27	11.099
11,400.00	10,026.98	9,800.00	9,544.07	54.33	37.87	-4.02	882.82	334.11	520.08	470.23	49.85	10.433
11,500.00	10,028.04	9,800.00	9,544.07	56.52	37.87	-4.02	882.82	334.11	565.26	509.52	55.74	10.140
11,600.00	10,029.09	9,800.00	9,544.07	58.79	37.87	-4.02	882.82	334.11	623.35	562.58	60.77	10.258
11,700.00	10,030.14	9,800.00	9,544.07	61.15	37.87	-4.02	882.82	334.11	691.09	626.41	64.68	10.685
11,800.00	10,031.20	9,800.00	9,544.07	63.57	37.87	-4.02	882.82	334.11	765.92	698.31	67.62	11.327
11,900.00	10,032.25	9,800.00	9,544.07	66.06	37.87	-4.02	882.82	334.11	845.98	776.17	69.81	12.119
12,000.00	10,033.30	9,800.00	9,544.07	68.60	37.87	-4.02	882.82	334.11	929.90	858.45	71.45	13.015
12,100.00	10,034.36	9,800.00	9,544.07	71.19	37.87	-4.02	882.82	334.11	1,016.74	944.05	72.69	13.988
12,200.00	10,035.41	9,800.00	9,544.07	73.82	37.87	-4.02	882.82	334.11	1,105.80	1,032.16	73.64	15.016
12,300.00	10,036.47	9,800.00	9,544.07	76.48	37.87	-4.02	882.82	334.11	1,196.59	1,122.20	74.39	16.086
12,400.00	10,037.52	9,800.00	9,544.07	79.18	37.87	-4.02	882.82	334.11	1,288.75	1,213.77	74.98	17.189
12,500.00	10,038.57	9,800.00	9,544.07	81.92	37.87	-4.02	882.82	334.11	1,381.99	1,306.54	75.45	18.317
12,600.00	10,039.63	9,800.00	9,544.07	84.68	37.87	-4.02	882.82	334.11	1,476.12	1,400.29	75.83	19.465
12,700.00	10,040.68	9,800.00	9,544.07	87.46	37.87	-4.02	882.82	334.11	1,570.98	1,494.83	76.15	20.629
12,800.00	10,041.74	9,800.00	9,544.07	90.27	37.87	-4.02	882.82	334.11	1,666.44	1,590.02	76.42	21.807
12,900.00	10,042.79	9,800.00	9,544.07	93.10	37.87	-4.02	882.82	334.11	1,762.40	1,685.76	76.64	22.995
13,000.00	10,043.84	9,800.00	9,544.07	95.94	37.87	-4.02	882.82	334.11	1,858.79	1,781.95	76.83	24.192

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-231H - Wellbore #1 - Plan 5												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.00	0.00	0.00	0.00	0.50	0.50	90.20	-0.07	19.97	20.00				
100.00	100.00	99.00	99.00	0.52	0.52	90.20	-0.07	19.97	19.97	18.93	1.04	19.292	
200.00	200.00	199.00	199.00	0.70	0.70	90.20	-0.07	19.97	19.97	18.57	1.40	14.247	
300.00	300.00	299.00	299.00	0.99	0.98	90.20	-0.07	19.97	19.97	18.00	1.97	10.129	
400.00	400.00	399.00	399.00	1.31	1.31	90.20	-0.07	19.97	19.97	17.36	2.61	7.637	
500.00	500.00	499.00	499.00	1.65	1.64	90.20	-0.07	19.97	19.97	16.68	3.29	6.072	
600.00	600.00	599.00	599.00	1.99	1.99	90.20	-0.07	19.97	19.97	15.99	3.98	5.020	
700.00	700.00	699.00	699.00	2.34	2.34	90.20	-0.07	19.97	19.97	15.29	4.68	4.272	
800.00	800.00	799.00	799.00	2.69	2.69	90.20	-0.07	19.97	19.97	14.59	5.38	3.714	
900.00	900.00	899.00	899.00	3.04	3.04	90.20	-0.07	19.97	19.97	13.89	6.08	3.283	
1,000.00	1,000.00	999.00	999.00	3.40	3.39	90.20	-0.07	19.97	19.97	13.18	6.79	2.940	
1,100.00	1,100.00	1,099.00	1,099.00	3.75	3.75	90.20	-0.07	19.97	19.97	12.47	7.50	2.662	
1,200.00	1,200.00	1,199.00	1,199.00	4.11	4.10	90.20	-0.07	19.97	19.97	11.76	8.21	2.432	
1,300.00	1,300.00	1,299.00	1,299.00	4.46	4.46	90.20	-0.07	19.97	19.97	11.05	8.92	2.238	
1,400.00	1,400.00	1,399.00	1,399.00	4.82	4.82	90.20	-0.07	19.97	19.97	10.33	9.64	2.072	
1,500.00	1,500.00	1,499.00	1,499.00	5.18	5.17	90.20	-0.07	19.97	19.97	9.62	10.35	1.929	Collision Risk Procedures Req.
1,600.00	1,599.98	1,599.32	1,599.30	5.53	5.53	135.69	1.46	19.17	20.44	9.38	11.06	1.848	Collision Risk Procedures Req.
1,700.00	1,699.84	1,699.62	1,699.46	5.89	5.89	133.04	6.10	16.76	21.86	10.09	11.77	1.858	Collision Risk Procedures Req.
1,800.00	1,799.45	1,799.89	1,799.34	6.24	6.25	129.28	13.84	12.73	24.29	11.82	12.47	1.947	Collision Risk Procedures Req.
1,900.00	1,898.70	1,899.90	1,898.70	6.61	6.61	126.76	23.91	7.48	28.08	14.88	13.20	2.128	
2,000.00	1,997.47	1,999.71	1,997.85	6.98	6.98	129.37	34.10	2.17	33.96	20.04	13.93	2.439	
2,100.00	2,095.62	2,099.29	2,096.77	7.38	7.35	134.71	44.27	-3.12	42.28	27.62	14.66	2.884	
2,200.00	2,193.06	2,198.53	2,195.35	7.80	7.73	140.70	54.40	-8.40	53.49	38.11	15.39	3.476	
2,300.00	2,289.64	2,297.29	2,293.45	8.25	8.11	146.23	64.49	-13.65	67.96	51.84	16.11	4.217	
2,400.00	2,385.54	2,395.64	2,391.15	8.73	8.49	150.73	74.53	-18.89	85.03	68.19	16.84	5.049	
2,500.00	2,481.41	2,493.97	2,488.83	9.24	8.87	153.78	84.57	-24.12	102.56	84.99	17.57	5.837	
2,600.00	2,577.28	2,592.30	2,586.50	9.76	9.25	155.93	94.62	-29.35	120.29	101.99	18.31	6.571	
2,700.00	2,673.15	2,690.63	2,684.18	10.30	9.64	157.53	104.66	-34.58	138.15	119.10	19.05	7.253	
2,800.00	2,769.02	2,788.96	2,781.85	10.85	10.02	158.77	114.70	-39.81	156.08	136.29	19.79	7.886	
2,900.00	2,864.88	2,887.29	2,879.53	11.41	10.41	159.75	124.74	-45.04	174.07	153.53	20.54	8.474	
3,000.00	2,960.75	2,985.62	2,977.20	11.98	10.80	160.54	134.78	-50.27	192.10	170.81	21.29	9.022	
3,100.00	3,056.62	3,083.95	3,074.88	12.56	11.19	161.20	144.82	-55.50	210.16	188.11	22.05	9.532	
3,200.00	3,152.49	3,182.28	3,172.55	13.15	11.59	161.76	154.86	-60.73	228.24	205.44	22.80	10.009	
3,300.00	3,248.35	3,280.61	3,270.23	13.74	11.98	162.23	164.91	-65.96	246.34	222.78	23.56	10.454	
3,400.00	3,344.22	3,378.94	3,367.90	14.34	12.38	162.64	174.95	-71.18	264.46	240.13	24.33	10.872	
3,500.00	3,440.09	3,477.27	3,465.58	14.94	12.77	163.00	184.99	-76.41	282.58	257.49	25.09	11.263	
3,600.00	3,535.96	3,575.59	3,563.26	15.55	13.17	163.31	195.03	-81.64	300.71	274.86	25.85	11.632	
3,700.00	3,631.82	3,673.92	3,660.93	16.16	13.56	163.59	205.07	-86.87	318.86	292.24	26.62	11.978	
3,800.00	3,727.69	3,772.25	3,758.61	16.77	13.96	163.84	215.11	-92.10	337.01	309.62	27.39	12.305	
3,900.00	3,823.56	3,870.58	3,856.28	17.39	14.36	164.06	225.16	-97.33	355.16	327.00	28.16	12.614	
4,000.00	3,919.43	3,968.91	3,953.96	18.01	14.76	164.26	235.20	-102.56	373.32	344.39	28.93	12.906	
4,100.00	4,015.29	4,067.24	4,051.63	18.64	15.16	164.44	245.24	-107.79	391.48	361.78	29.70	13.182	
4,200.00	4,111.16	4,165.57	4,149.31	19.26	15.56	164.61	255.28	-113.02	409.65	379.18	30.47	13.444	
4,300.00	4,207.03	4,263.90	4,246.98	19.89	15.96	164.76	265.32	-118.25	427.82	396.57	31.24	13.693	
4,400.00	4,302.90	4,362.23	4,344.66	20.52	16.36	164.90	275.36	-123.48	445.99	413.97	32.02	13.930	
4,500.00	4,398.76	4,460.56	4,442.33	21.15	16.76	165.03	285.40	-128.71	464.16	431.37	32.79	14.155	
4,600.00	4,494.63	4,558.89	4,540.01	21.78	17.16	165.15	295.45	-133.94	482.34	448.77	33.57	14.369	
4,700.00	4,590.50	4,657.22	4,637.69	22.41	17.56	165.26	305.49	-139.17	500.52	466.17	34.34	14.574	
4,800.00	4,686.37	4,755.55	4,735.36	23.05	17.96	165.36	315.53	-144.40	518.70	483.58	35.12	14.769	
4,900.00	4,782.23	4,853.88	4,833.04	23.68	18.36	165.46	325.57	-149.63	536.88	500.98	35.90	14.955	
5,000.00	4,878.10	4,952.21	4,930.71	24.32	18.77	165.55	335.61	-154.86	555.06	518.39	36.68	15.134	
5,100.00	4,973.97	5,050.54	5,028.39	24.95	19.17	165.63	345.65	-160.09	573.25	535.79	37.46	15.305	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-231H - Wellbore #1 - Plan 5													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IGRF													Offset Well Error: 0.50 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)			
5,200.00	5,069.84	5,148.87	5,126.06	25.59	19.57	165.71	355.69	-165.32	591.43	553.20	38.23	15.468	
5,300.00	5,165.71	5,247.20	5,223.74	26.23	19.97	165.78	365.74	-170.55	609.62	570.60	39.01	15.625	
5,400.00	5,261.57	5,345.52	5,321.41	26.87	20.38	165.85	375.78	-175.78	627.81	588.01	39.79	15.776	
5,500.00	5,357.44	5,443.85	5,419.09	27.51	20.78	165.92	385.82	-181.01	645.99	605.42	40.58	15.921	
5,600.00	5,453.31	5,542.18	5,516.76	28.16	21.18	165.98	395.86	-186.24	664.18	622.83	41.36	16.060	
5,700.00	5,549.18	5,640.51	5,614.44	28.80	21.59	166.04	405.90	-191.47	682.37	640.23	42.14	16.194	
5,800.00	5,645.04	5,738.84	5,712.12	29.44	21.99	166.10	415.94	-196.70	700.56	657.64	42.92	16.323	
5,900.00	5,741.08	5,837.27	5,809.89	30.07	22.40	166.19	426.00	-201.94	718.18	674.48	43.70	16.434	
6,000.00	5,837.95	5,936.20	5,908.16	30.66	22.80	166.24	436.10	-207.20	732.75	688.27	44.48	16.473	
6,100.00	5,935.62	6,035.56	6,006.86	31.20	23.21	166.20	446.24	-212.49	743.96	698.70	45.26	16.437	
6,200.00	6,033.99	6,135.23	6,105.87	31.69	23.62	166.10	456.42	-217.79	751.79	705.76	46.04	16.330	
6,300.00	6,132.92	6,228.71	6,198.74	32.13	24.00	165.93	465.84	-222.69	756.40	709.64	46.77	16.174	
6,400.00	6,232.30	6,310.48	6,280.16	32.52	24.32	165.81	472.44	-226.13	759.53	712.14	47.39	16.026	
6,500.00	6,332.00	6,400.00	6,369.52	32.86	24.66	165.72	477.29	-228.66	761.72	713.68	48.04	15.857	
6,600.00	6,431.91	6,474.02	6,443.50	33.16	24.92	165.68	479.44	-229.77	762.82	714.31	48.50	15.727	
6,700.00	6,531.91	6,561.43	6,530.91	33.42	25.21	119.27	479.93	-230.03	763.03	713.98	49.05	15.556	
6,800.00	6,631.91	6,661.43	6,630.91	33.66	25.54	119.27	479.93	-230.03	763.03	713.32	49.71	15.349	
6,900.00	6,731.91	6,761.43	6,730.91	33.91	25.86	119.27	479.93	-230.03	763.03	712.66	50.38	15.147	
7,000.00	6,831.91	6,861.43	6,830.91	34.16	26.19	119.27	479.93	-230.03	763.03	711.99	51.04	14.949	
7,100.00	6,931.91	6,961.43	6,930.91	34.42	26.52	119.27	479.93	-230.03	763.03	711.32	51.71	14.757	
7,200.00	7,031.91	7,061.43	7,030.91	34.67	26.85	119.27	479.93	-230.03	763.03	710.66	52.37	14.569	
7,300.00	7,131.91	7,161.43	7,130.91	34.93	27.18	119.27	479.93	-230.03	763.03	709.99	53.04	14.385	
7,400.00	7,231.91	7,261.43	7,230.91	35.19	27.52	119.27	479.93	-230.03	763.03	709.32	53.71	14.206	
7,500.00	7,331.91	7,361.43	7,330.91	35.45	27.85	119.27	479.93	-230.03	763.03	708.65	54.39	14.030	
7,600.00	7,431.91	7,461.43	7,430.91	35.71	28.18	119.27	479.93	-230.03	763.03	707.97	55.06	13.859	
7,700.00	7,531.91	7,561.43	7,530.91	35.98	28.52	119.27	479.93	-230.03	763.03	707.30	55.73	13.691	
7,800.00	7,631.91	7,661.43	7,630.91	36.24	28.85	119.27	479.93	-230.03	763.03	706.63	56.41	13.528	
7,900.00	7,731.91	7,761.43	7,730.91	36.51	29.19	119.27	479.93	-230.03	763.03	705.95	57.08	13.367	
8,000.00	7,831.91	7,861.43	7,830.91	36.78	29.52	119.27	479.93	-230.03	763.03	705.27	57.76	13.211	
8,100.00	7,931.91	7,961.43	7,930.91	37.05	29.86	119.27	479.93	-230.03	763.03	704.60	58.44	13.058	
8,200.00	8,031.91	8,061.43	8,030.91	37.32	30.20	119.27	479.93	-230.03	763.03	703.92	59.11	12.908	
8,300.00	8,131.91	8,161.43	8,130.91	37.59	30.53	119.27	479.93	-230.03	763.03	703.24	59.79	12.761	
8,400.00	8,231.91	8,261.43	8,230.91	37.87	30.87	119.27	479.93	-230.03	763.03	702.56	60.47	12.618	
8,500.00	8,331.91	8,361.43	8,330.91	38.14	31.21	119.27	479.93	-230.03	763.03	701.88	61.15	12.477	
8,600.00	8,431.91	8,461.43	8,430.91	38.42	31.55	119.27	479.93	-230.03	763.03	701.20	61.84	12.340	
8,700.00	8,531.91	8,561.43	8,530.91	38.70	31.89	119.27	479.93	-230.03	763.03	700.51	62.52	12.205	
8,800.00	8,631.91	8,661.43	8,630.91	38.98	32.23	119.27	479.93	-230.03	763.03	699.83	63.20	12.073	
8,900.00	8,731.91	8,761.43	8,730.91	39.26	32.57	119.27	479.93	-230.03	763.03	699.15	63.89	11.944	
9,000.00	8,831.91	8,861.43	8,830.91	39.54	32.91	119.27	479.93	-230.03	763.03	698.46	64.57	11.817	
9,100.00	8,931.91	8,961.43	8,930.91	39.82	33.25	119.27	479.93	-230.03	763.03	697.78	65.26	11.693	
9,200.00	9,031.91	9,061.43	9,030.91	40.11	33.59	119.27	479.93	-230.03	763.03	697.09	65.94	11.571	
9,300.00	9,131.91	9,161.43	9,130.91	40.39	33.93	119.27	479.93	-230.03	763.03	696.40	66.63	11.452	
9,400.00	9,231.91	9,261.43	9,230.91	40.68	34.27	119.27	479.93	-230.03	763.03	695.72	67.32	11.335	
9,500.00	9,331.91	9,361.43	9,330.91	40.97	34.61	119.27	479.93	-230.03	763.03	695.03	68.00	11.220	
9,600.00	9,431.91	9,461.43	9,430.91	41.26	34.95	119.27	479.93	-230.03	763.03	694.34	68.69	11.108	
9,700.00	9,531.91	10,388.09	10,029.49	41.55	40.75	76.65	983.41	-346.27	753.26	686.91	66.35	11.352	
9,800.00	9,631.33	10,385.36	10,029.51	41.78	40.73	-15.93	980.75	-345.65	684.43	614.31	70.12	9.761	
9,900.00	9,726.75	10,378.01	10,029.56	41.89	40.66	-19.13	973.58	-344.00	608.66	535.33	73.33	8.300	
10,000.00	9,813.98	10,366.33	10,029.64	41.92	40.55	-23.30	962.21	-341.37	526.79	450.89	75.90	6.941	
10,100.00	9,889.22	10,350.84	10,029.75	41.89	40.40	-29.12	947.12	-337.89	439.71	361.92	77.80	5.652	
10,200.00	9,949.18	10,332.22	10,029.88	41.86	40.23	-38.10	928.97	-333.70	348.33	269.32	79.01	4.409	
10,300.00	9,991.23	10,310.89	10,030.01	41.86	40.03	-53.99	908.19	-328.90	253.61	174.04	79.58	3.187	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-231H - Wellbore #1 - Plan 5												Offset Site Error:	0.00 usft
Survey Program: 0-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	
10,400.00	10,013.55	10,287.87	10,029.34	41.94	39.82	-87.32	885.77	-323.72	156.66	77.05	79.60	1.968	Collision Risk Procedures Req.
10,500.00	10,017.50	10,264.75	10,027.47	42.14	39.62	-130.35	863.32	-318.54	59.56	-19.22	78.78	0.756	No-Go Zone - Stop Drilling
10,560.50	10,018.14	10,250.82	10,025.75	42.37	39.49	171.68	849.85	-315.43	8.71	-33.29	42.00	0.207	No-Go Zone - Stop Drilling, CC, SF
10,600.00	10,018.55	10,241.81	10,024.41	42.54	39.42	126.15	841.17	-313.43	39.45	-38.72	78.17	0.505	No-Go Zone - Stop Drilling, ES
10,700.00	10,019.61	10,219.36	10,020.28	43.20	39.22	95.59	819.67	-308.47	136.20	57.17	79.03	1.723	Collision Risk Procedures Req.
10,800.00	10,020.66	10,197.49	10,015.19	44.14	39.03	87.72	798.95	-303.68	233.59	154.74	78.85	2.962	
10,900.00	10,021.71	10,176.29	10,009.25	45.36	38.85	83.61	779.12	-299.10	331.12	252.47	78.66	4.210	
11,000.00	10,022.77	10,155.82	10,002.59	46.81	38.68	80.76	760.26	-294.75	428.75	350.28	78.47	5.464	
11,100.00	10,023.82	10,136.12	9,995.33	48.46	38.52	78.52	742.41	-290.63	526.47	448.17	78.30	6.724	
11,200.00	10,024.87	10,117.22	9,987.62	50.28	38.37	76.62	725.61	-286.75	624.27	546.13	78.14	7.989	
11,300.00	10,025.93	10,100.00	9,979.95	52.25	38.24	75.04	710.59	-283.28	722.16	644.16	78.00	9.259	
11,400.00	10,026.98	10,081.91	9,971.25	54.33	38.10	73.47	695.13	-279.71	820.13	742.26	77.87	10.532	
11,500.00	10,028.04	10,065.48	9,962.79	56.52	37.97	72.10	681.42	-276.55	918.19	840.43	77.76	11.808	
11,600.00	10,029.09	10,050.00	9,954.34	58.79	37.86	70.86	668.77	-273.63	1,016.33	938.67	77.65	13.088	
11,700.00	10,030.14	10,035.03	9,945.75	61.15	37.75	69.69	656.83	-270.87	1,114.55	1,036.99	77.56	14.370	
11,800.00	10,031.20	10,020.96	9,937.29	63.57	37.65	68.61	645.87	-268.34	1,212.85	1,135.37	77.48	15.654	
11,900.00	10,032.25	10,007.61	9,928.94	66.06	37.55	67.60	635.72	-266.00	1,311.22	1,233.82	77.40	16.940	
12,000.00	10,033.30	9,994.96	9,920.74	68.60	37.46	66.65	626.34	-263.83	1,409.67	1,332.33	77.33	18.228	
12,100.00	10,034.36	9,982.97	9,912.71	71.19	37.38	65.77	617.66	-261.83	1,508.19	1,430.91	77.28	19.517	
12,200.00	10,035.41	9,975.00	9,907.25	73.82	37.33	65.19	612.01	-260.52	1,606.77	1,529.55	77.22	20.807	
12,300.00	10,036.47	9,960.83	9,897.28	76.48	37.23	64.16	602.20	-258.26	1,705.42	1,628.24	77.17	22.098	
12,400.00	10,037.52	9,950.00	9,889.44	79.18	37.16	63.38	594.92	-256.58	1,804.13	1,726.99	77.13	23.390	
12,500.00	10,038.57	9,940.94	9,882.74	81.92	37.10	62.73	588.98	-255.21	1,902.89	1,825.80	77.10	24.682	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-232H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.50	0.50	90.26	-0.27	59.96	59.96				
100.00	100.00	100.00	100.00	0.52	0.52	90.26	-0.27	59.96	59.96	58.93	1.04	57.904	
200.00	200.00	200.00	200.00	0.70	0.70	90.26	-0.27	59.96	59.96	58.56	1.40	42.701	
300.00	300.00	300.00	300.00	0.99	0.99	90.26	-0.27	59.96	59.96	57.99	1.97	30.365	
400.00	400.00	400.00	400.00	1.31	1.31	90.26	-0.27	59.96	59.96	57.34	2.62	22.902	
500.00	500.00	500.00	500.00	1.65	1.65	90.26	-0.27	59.96	59.96	56.67	3.29	18.213	
600.00	600.00	600.00	600.00	1.99	1.99	90.26	-0.27	59.96	59.96	55.98	3.98	15.061	
700.00	700.00	700.00	700.00	2.34	2.34	90.26	-0.27	59.96	59.96	55.28	4.68	12.816	
800.00	800.00	800.00	800.00	2.69	2.69	90.26	-0.27	59.96	59.96	54.58	5.38	11.143	
900.00	900.00	900.00	900.00	3.04	3.04	90.26	-0.27	59.96	59.96	53.87	6.09	9.850	
1,000.00	1,000.00	1,000.00	1,000.00	3.40	3.40	90.26	-0.27	59.96	59.96	53.17	6.80	8.824	
1,100.00	1,100.00	1,100.00	1,100.00	3.75	3.75	90.26	-0.27	59.96	59.96	52.46	7.51	7.989	
1,200.00	1,200.00	1,200.00	1,200.00	4.11	4.11	90.26	-0.27	59.96	59.96	51.74	8.22	7.298	
1,300.00	1,300.00	1,300.00	1,300.00	4.46	4.46	90.26	-0.27	59.96	59.96	51.03	8.93	6.716	
1,400.00	1,400.00	1,400.00	1,400.00	4.82	4.82	90.26	-0.27	59.96	59.96	50.32	9.64	6.219	
1,500.00	1,500.00	1,500.00	1,500.00	5.18	5.18	90.26	-0.27	59.96	59.96	49.61	10.35	5.791	
1,600.00	1,599.98	1,598.12	1,598.10	5.53	5.52	136.96	0.53	61.44	62.73	51.68	11.05	5.677	
1,700.00	1,699.84	1,695.78	1,695.63	5.89	5.87	137.71	2.90	65.85	71.05	59.32	11.73	6.056	
1,800.00	1,799.45	1,792.54	1,792.03	6.24	6.21	138.61	6.81	73.09	84.88	72.48	12.40	6.843	
1,900.00	1,898.70	1,887.96	1,886.78	6.61	6.55	139.42	12.18	83.05	104.16	91.09	13.07	7.972	
2,000.00	1,997.47	1,981.65	1,979.38	6.98	6.90	140.05	18.90	95.51	128.79	115.07	13.72	9.388	
2,100.00	2,095.62	2,073.24	2,069.42	7.38	7.26	140.48	26.86	110.27	158.63	144.27	14.37	11.043	
2,200.00	2,193.06	2,162.77	2,156.88	7.80	7.63	140.73	35.96	127.13	193.53	178.52	15.01	12.893	
2,300.00	2,289.64	2,255.02	2,246.72	8.25	8.02	141.13	45.89	145.55	231.98	216.25	15.73	14.746	
2,400.00	2,385.54	2,346.43	2,335.75	8.73	8.43	142.00	55.73	163.80	272.33	255.86	16.47	16.539	
2,500.00	2,481.41	2,437.80	2,424.73	9.24	8.85	142.77	65.57	182.04	312.81	295.60	17.21	18.179	
2,600.00	2,577.28	2,529.17	2,513.72	9.76	9.27	143.37	75.41	200.28	353.33	335.37	17.96	19.672	
2,700.00	2,673.15	2,620.53	2,602.71	10.30	9.71	143.84	85.25	218.52	393.87	375.15	18.73	21.034	
2,800.00	2,769.02	2,711.90	2,691.69	10.85	10.15	144.22	95.09	236.76	434.44	414.94	19.50	22.278	
2,900.00	2,864.88	2,803.27	2,780.68	11.41	10.59	144.54	104.92	255.01	475.02	454.73	20.28	23.419	
3,000.00	2,960.75	2,894.64	2,869.67	11.98	11.05	144.81	114.76	273.25	515.60	494.53	21.07	24.466	
3,100.00	3,056.62	2,986.01	2,958.65	12.56	11.50	145.04	124.60	291.49	556.20	534.33	21.87	25.429	
3,200.00	3,152.49	3,077.38	3,047.64	13.15	11.97	145.24	134.44	309.73	596.80	574.12	22.68	26.318	
3,300.00	3,248.35	3,168.74	3,136.63	13.74	12.43	145.41	144.28	327.97	637.41	613.92	23.49	27.140	
3,400.00	3,344.22	3,260.11	3,225.61	14.34	12.90	145.56	154.11	346.21	678.02	653.72	24.30	27.901	
3,500.00	3,440.09	3,351.48	3,314.60	14.94	13.38	145.70	163.95	364.46	718.64	693.52	25.12	28.608	
3,600.00	3,535.96	3,442.85	3,403.59	15.55	13.85	145.82	173.79	382.70	759.25	733.31	25.94	29.265	
3,700.00	3,631.82	3,534.22	3,492.57	16.16	14.33	145.93	183.63	400.94	799.87	773.10	26.77	29.878	
3,800.00	3,727.69	3,625.58	3,581.56	16.77	14.81	146.03	193.47	419.18	840.50	812.90	27.60	30.450	
3,900.00	3,823.56	3,716.95	3,670.55	17.39	15.29	146.11	203.31	437.42	881.12	852.69	28.44	30.986	
4,000.00	3,919.43	3,808.32	3,759.53	18.01	15.78	146.20	213.14	455.67	921.75	892.48	29.27	31.488	
4,100.00	4,015.29	3,899.69	3,848.52	18.64	16.26	146.27	222.98	473.91	962.38	932.26	30.11	31.959	
4,200.00	4,111.16	3,991.06	3,937.50	19.26	16.75	146.34	232.82	492.15	1,003.01	972.05	30.96	32.402	
4,300.00	4,207.03	4,082.43	4,026.49	19.89	17.24	146.40	242.66	510.39	1,043.64	1,011.84	31.80	32.819	
4,400.00	4,302.90	4,173.79	4,115.48	20.52	17.73	146.46	252.50	528.63	1,084.27	1,051.62	32.65	33.212	
4,500.00	4,398.76	4,265.16	4,204.46	21.15	18.22	146.51	262.34	546.87	1,124.90	1,091.40	33.49	33.584	
4,600.00	4,494.63	4,356.53	4,293.45	21.78	18.71	146.56	272.17	565.12	1,165.53	1,131.19	34.35	33.936	
4,700.00	4,590.50	4,447.90	4,382.44	22.41	19.20	146.61	282.01	583.36	1,206.16	1,170.97	35.20	34.268	
4,800.00	4,686.37	4,539.27	4,471.42	23.05	19.70	146.65	291.85	601.60	1,246.80	1,210.75	36.05	34.584	
4,900.00	4,782.23	4,630.63	4,560.41	23.68	20.19	146.69	301.69	619.84	1,287.43	1,250.53	36.91	34.883	
5,000.00	4,878.10	4,722.00	4,649.40	24.32	20.69	146.73	311.53	638.08	1,328.07	1,290.30	37.76	35.168	
5,100.00	4,973.97	4,813.37	4,738.38	24.95	21.19	146.77	321.36	656.32	1,368.70	1,330.08	38.62	35.439	

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-232H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IGRF						Rule Assigned:						Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,200.00	5,069.84	4,904.74	4,827.37	25.59	21.68	146.80	331.20	674.57	1,409.34	1,369.86	39.48	35.697			
5,300.00	5,165.71	4,996.11	4,916.36	26.23	22.18	146.84	341.04	692.81	1,449.98	1,409.63	40.34	35.943			
5,400.00	5,261.57	5,087.48	5,005.34	26.87	22.68	146.87	350.88	711.05	1,490.61	1,449.41	41.20	36.177			
5,500.00	5,357.44	5,178.84	5,094.33	27.51	23.18	146.89	360.72	729.29	1,531.25	1,489.18	42.07	36.401			
5,600.00	5,453.31	5,270.21	5,183.32	28.16	23.68	146.92	370.56	747.53	1,571.89	1,528.96	42.93	36.615			
5,700.00	5,549.18	5,361.58	5,272.30	28.80	24.18	146.95	380.39	765.77	1,612.52	1,568.73	43.79	36.820			
5,800.00	5,645.04	5,452.95	5,361.29	29.44	24.68	146.97	390.23	784.02	1,653.16	1,608.50	44.66	37.017			
5,900.00	5,741.08	5,544.52	5,450.47	30.07	25.18	147.26	400.09	802.30	1,693.34	1,647.82	45.52	37.196			
6,000.00	5,837.95	5,637.12	5,540.66	30.66	25.69	147.65	410.06	820.79	1,731.05	1,684.67	46.38	37.323			
6,100.00	5,935.62	5,730.74	5,631.84	31.20	26.21	147.93	420.14	839.48	1,766.02	1,718.80	47.23	37.396			
6,200.00	6,033.99	5,825.28	5,723.91	31.69	26.73	148.12	430.32	858.35	1,798.21	1,750.15	48.06	37.417			
6,300.00	6,132.92	5,920.61	5,816.76	32.13	27.25	148.22	440.59	877.39	1,827.61	1,778.73	48.88	37.389			
6,400.00	6,232.30	6,077.17	5,969.79	32.52	28.07	148.09	456.24	906.40	1,853.18	1,802.96	50.21	36.907			
6,500.00	6,332.00	6,272.88	6,163.21	32.86	28.96	147.93	470.30	932.47	1,871.18	1,819.50	51.68	36.204			
6,600.00	6,431.91	6,472.98	6,362.58	33.16	29.70	147.85	478.16	947.06	1,881.03	1,828.09	52.94	35.534			
6,700.00	6,531.91	6,642.36	6,531.91	33.42	30.20	101.43	479.73	949.96	1,882.97	1,829.13	53.84	34.973			
6,800.00	6,631.91	6,742.36	6,631.91	33.66	30.47	101.43	479.73	949.96	1,882.97	1,828.53	54.44	34.590			
6,900.00	6,731.91	6,842.36	6,731.91	33.91	30.75	101.43	479.73	949.96	1,882.97	1,827.93	55.04	34.212			
7,000.00	6,831.91	6,942.36	6,831.91	34.16	31.02	101.43	479.73	949.96	1,882.97	1,827.33	55.64	33.841			
7,100.00	6,931.91	7,042.36	6,931.91	34.42	31.30	101.43	479.73	949.96	1,882.97	1,826.72	56.25	33.477			
7,200.00	7,031.91	7,142.36	7,031.91	34.67	31.58	101.43	479.73	949.96	1,882.97	1,826.11	56.86	33.118			
7,300.00	7,131.91	7,242.36	7,131.91	34.93	31.86	101.43	479.73	949.96	1,882.97	1,825.50	57.47	32.766			
7,400.00	7,231.91	7,342.36	7,231.91	35.19	32.14	101.43	479.73	949.96	1,882.97	1,824.89	58.08	32.420			
7,500.00	7,331.91	7,442.36	7,331.91	35.45	32.43	101.43	479.73	949.96	1,882.97	1,824.27	58.70	32.080			
7,600.00	7,431.91	7,542.36	7,431.91	35.71	32.71	101.43	479.73	949.96	1,882.97	1,823.65	59.31	31.746			
7,700.00	7,531.91	7,642.36	7,531.91	35.98	33.00	101.43	479.73	949.96	1,882.97	1,823.03	59.93	31.417			
7,800.00	7,631.91	7,742.36	7,631.91	36.24	33.28	101.43	479.73	949.96	1,882.97	1,822.41	60.56	31.095			
7,900.00	7,731.91	7,842.36	7,731.91	36.51	33.57	101.43	479.73	949.96	1,882.97	1,821.79	61.18	30.777			
8,000.00	7,831.91	7,942.36	7,831.91	36.78	33.86	101.43	479.73	949.96	1,882.97	1,821.16	61.81	30.465			
8,100.00	7,931.91	8,042.36	7,931.91	37.05	34.16	101.43	479.73	949.96	1,882.97	1,820.53	62.44	30.159			
8,200.00	8,031.91	8,142.36	8,031.91	37.32	34.45	101.43	479.73	949.96	1,882.97	1,819.90	63.07	29.857			
8,300.00	8,131.91	8,242.36	8,131.91	37.59	34.74	101.43	479.73	949.96	1,882.97	1,819.27	63.70	29.561			
8,400.00	8,231.91	8,342.36	8,231.91	37.87	35.04	101.43	479.73	949.96	1,882.97	1,818.64	64.33	29.270			
8,500.00	8,331.91	8,442.36	8,331.91	38.14	35.34	101.43	479.73	949.96	1,882.97	1,818.00	64.97	28.983			
8,600.00	8,431.91	8,542.36	8,431.91	38.42	35.63	101.43	479.73	949.96	1,882.97	1,817.36	65.60	28.702			
8,700.00	8,531.91	8,642.36	8,531.91	38.70	35.93	101.43	479.73	949.96	1,882.97	1,816.73	66.24	28.425			
8,800.00	8,631.91	8,742.36	8,631.91	38.98	36.23	101.43	479.73	949.96	1,882.97	1,816.08	66.88	28.153			
8,900.00	8,731.91	8,842.36	8,731.91	39.26	36.53	101.43	479.73	949.96	1,882.97	1,815.44	67.53	27.885			
9,000.00	8,831.91	8,942.36	8,831.91	39.54	36.84	101.43	479.73	949.96	1,882.97	1,814.80	68.17	27.622			
9,100.00	8,931.91	9,042.36	8,931.91	39.82	37.14	101.43	479.73	949.96	1,882.97	1,814.15	68.81	27.363			
9,200.00	9,031.91	9,142.36	9,031.91	40.11	37.44	101.43	479.73	949.96	1,882.97	1,813.51	69.46	27.108			
9,300.00	9,131.91	9,242.36	9,131.91	40.39	37.75	101.43	479.73	949.96	1,882.97	1,812.86	70.11	26.858			
9,400.00	9,231.91	9,342.36	9,231.91	40.68	38.05	101.43	479.73	949.96	1,882.97	1,812.21	70.76	26.612			
9,500.00	9,331.91	9,442.36	9,331.91	40.97	38.36	101.43	479.73	949.96	1,882.97	1,811.56	71.41	26.369			
9,600.00	9,431.91	9,542.36	9,431.91	41.26	38.67	101.43	479.73	949.96	1,882.97	1,810.91	72.06	26.131			
9,700.00	9,531.91	9,642.36	9,531.91	41.55	38.98	101.43	479.73	949.96	1,882.97	1,810.26	72.71	25.896			
9,800.00	9,631.33	9,853.22	9,740.74	41.78	39.70	11.02	499.80	949.99	1,873.58	1,799.80	73.78	25.395			
9,900.00	9,726.75	10,173.42	9,986.98	41.89	41.24	5.62	693.35	950.32	1,833.33	1,757.69	75.64	24.238			
10,000.00	9,813.98	10,265.44	10,025.85	41.92	41.78	3.06	776.56	950.46	1,773.71	1,697.03	76.68	23.131			
10,100.00	9,889.22	10,302.83	10,036.55	41.89	42.01	1.90	812.38	950.52	1,700.70	1,623.41	77.29	22.005			
10,200.00	9,949.18	10,321.34	10,040.71	41.86	42.12	1.26	830.42	950.55	1,616.80	1,539.17	77.63	20.827			
10,300.00	9,991.23	10,330.93	10,042.57	41.86	42.19	0.92	839.83	950.57	1,524.46	1,446.67	77.79	19.596			

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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Offset Design: SEC 18-23S-28E - TURKS-FEE-07-232H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.50 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)			
10,400.00	10,013.55	10,335.15	10,043.32	41.94	42.21	1.21	843.98	950.57	1,426.60	1,348.74	77.85	18.325	
10,500.00	10,017.50	10,335.72	10,043.42	42.14	42.22	168.41	844.54	950.58	1,326.68	1,248.82	77.86	17.040	
10,600.00	10,018.55	10,335.75	10,043.42	42.54	42.22	168.55	844.57	950.58	1,226.68	1,148.82	77.86	15.755	
10,700.00	10,019.61	10,335.78	10,043.43	43.20	42.22	168.68	844.59	950.58	1,126.69	1,048.82	77.86	14.470	
10,800.00	10,020.66	10,335.80	10,043.43	44.14	42.22	168.81	844.62	950.58	1,026.70	948.83	77.87	13.185	
10,900.00	10,021.71	10,335.83	10,043.44	45.36	42.22	168.94	844.65	950.58	926.70	848.83	77.88	11.900	
11,000.00	10,022.77	10,335.86	10,043.44	46.81	42.22	169.07	844.68	950.58	826.71	748.83	77.88	10.615	
11,100.00	10,023.82	10,335.89	10,043.45	48.46	42.22	169.20	844.70	950.58	726.73	648.83	77.89	9.330	
11,200.00	10,024.87	10,335.91	10,043.45	50.28	42.22	169.33	844.73	950.58	626.74	548.84	77.91	8.045	
11,300.00	10,025.93	10,335.94	10,043.46	52.25	42.22	169.46	844.76	950.58	526.76	448.85	77.92	6.760	
11,400.00	10,026.98	10,335.97	10,043.46	54.33	42.22	169.59	844.78	950.58	426.80	348.86	77.94	5.476	
11,500.00	10,028.04	10,336.00	10,043.46	56.52	42.22	169.72	844.81	950.58	326.85	248.90	77.96	4.193	
11,600.00	10,029.09	10,336.02	10,043.47	58.79	42.22	169.84	844.84	950.58	226.95	148.98	77.98	2.911	
11,700.00	10,030.14	10,336.05	10,043.47	61.15	42.22	169.97	844.86	950.58	127.21	49.25	77.95	1.632 Collision Risk Procedures Req.	
11,800.00	10,031.20	10,336.08	10,043.48	63.57	42.22	170.09	844.89	950.58	29.28	-45.58	74.86	0.391 No-Go Zone - Stop Drilling, ES	
11,826.62	10,031.48	10,336.08	10,043.48	64.23	42.22	170.13	844.90	950.58	12.18	-37.39	49.58	0.246 No-Go Zone - Stop Drilling, CC, SF	
11,900.00	10,032.25	10,336.10	10,043.48	66.06	42.22	170.22	844.92	950.58	74.38	-2.48	76.86	0.968 No-Go Zone - Stop Drilling	
12,000.00	10,033.30	10,336.13	10,043.49	68.60	42.22	170.34	844.94	950.58	173.80	96.16	77.64	2.239	
12,100.00	10,034.36	10,336.16	10,043.49	71.19	42.22	170.47	844.97	950.58	273.65	195.85	77.79	3.518	
12,200.00	10,035.41	10,336.18	10,043.50	73.82	42.22	170.59	844.99	950.58	373.58	295.71	77.86	4.798	
12,300.00	10,036.47	10,336.21	10,043.50	76.48	42.22	170.71	845.02	950.58	473.53	395.63	77.91	6.078	
12,400.00	10,037.52	10,336.23	10,043.51	79.18	42.22	170.83	845.04	950.58	573.51	495.56	77.94	7.358	
12,500.00	10,038.57	10,336.26	10,043.51	81.92	42.22	170.95	845.07	950.58	673.49	595.51	77.97	8.637	
12,600.00	10,039.63	10,336.28	10,043.51	84.68	42.22	171.07	845.09	950.58	773.47	695.47	78.00	9.916	
12,700.00	10,040.68	10,336.31	10,043.52	87.46	42.22	171.19	845.12	950.58	873.46	795.43	78.03	11.194	
12,800.00	10,041.74	10,336.34	10,043.52	90.27	42.22	171.31	845.14	950.58	973.45	895.40	78.05	12.472	
12,900.00	10,042.79	10,336.36	10,043.53	93.10	42.22	171.43	845.17	950.58	1,073.45	995.37	78.08	13.748	
13,000.00	10,043.84	10,336.39	10,043.53	95.94	42.22	171.55	845.19	950.58	1,173.44	1,095.33	78.11	15.024	
13,100.00	10,044.90	10,336.41	10,043.54	98.81	42.22	171.67	845.22	950.58	1,273.43	1,195.30	78.13	16.298	
13,200.00	10,045.95	10,336.44	10,043.54	101.69	42.22	171.79	845.24	950.58	1,373.43	1,295.27	78.16	17.572	
13,300.00	10,047.00	10,336.46	10,043.54	104.58	42.22	171.90	845.27	950.58	1,473.43	1,395.24	78.19	18.845	
13,400.00	10,048.06	10,336.49	10,043.55	107.49	42.22	172.02	845.29	950.58	1,573.42	1,495.21	78.22	20.116	
13,500.00	10,049.11	10,336.51	10,043.55	110.41	42.22	172.13	845.32	950.58	1,673.42	1,595.18	78.25	21.387	
13,600.00	10,050.17	10,336.53	10,043.56	113.34	42.22	172.25	845.34	950.58	1,773.42	1,695.14	78.28	22.656	
13,700.00	10,051.22	10,336.56	10,043.56	116.28	42.22	172.36	845.36	950.58	1,873.42	1,795.11	78.31	23.924	

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



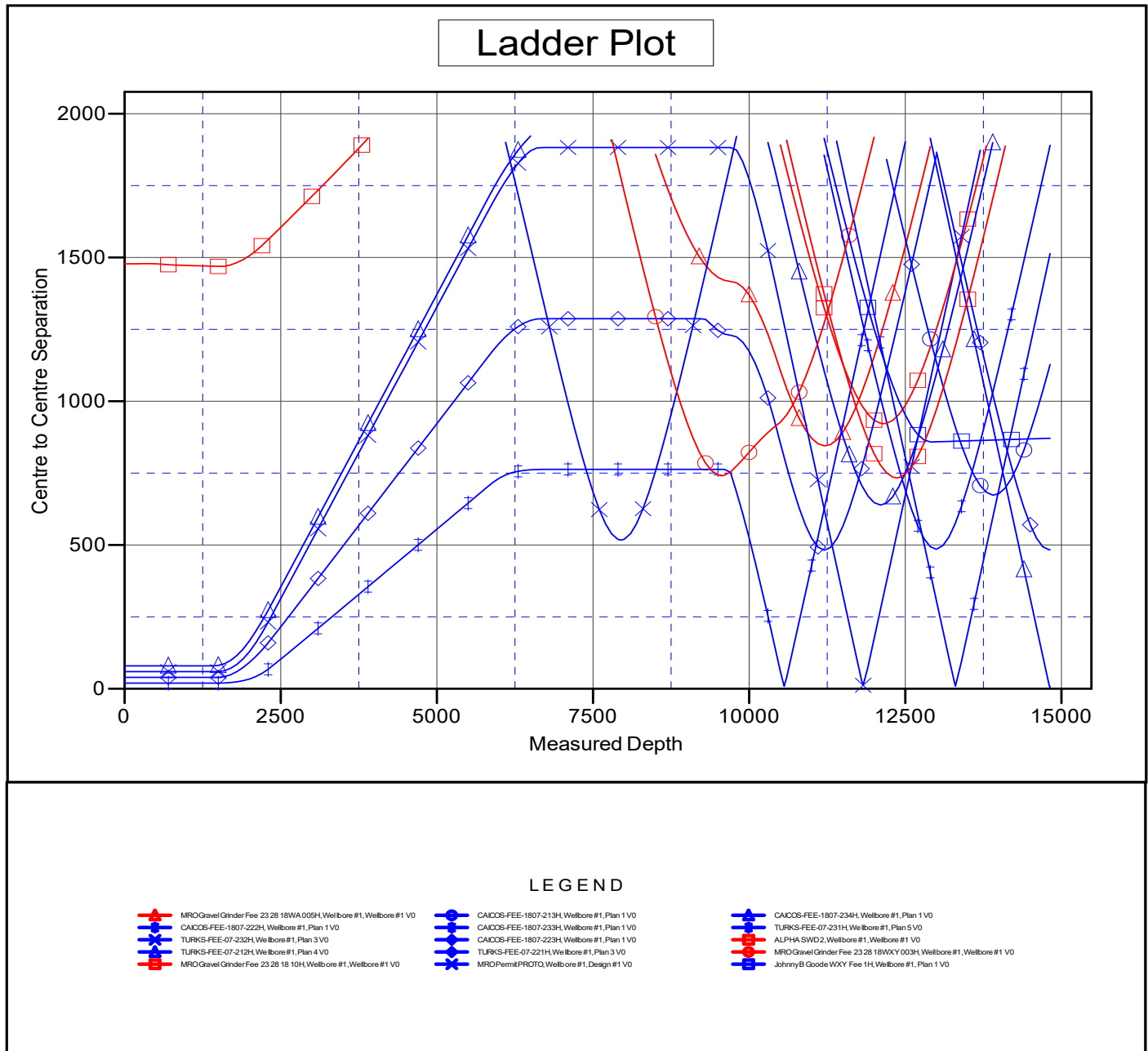
Anticollision Report



Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 25' + GL 3061 @ 3086.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is -104.33333334

Coordinates are relative to: TURKS-FEE-07-211H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.11°



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 TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H	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 7	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 25' + GL 3061 @ 3086.00usft

Offset Depths are relative to Offset Datum

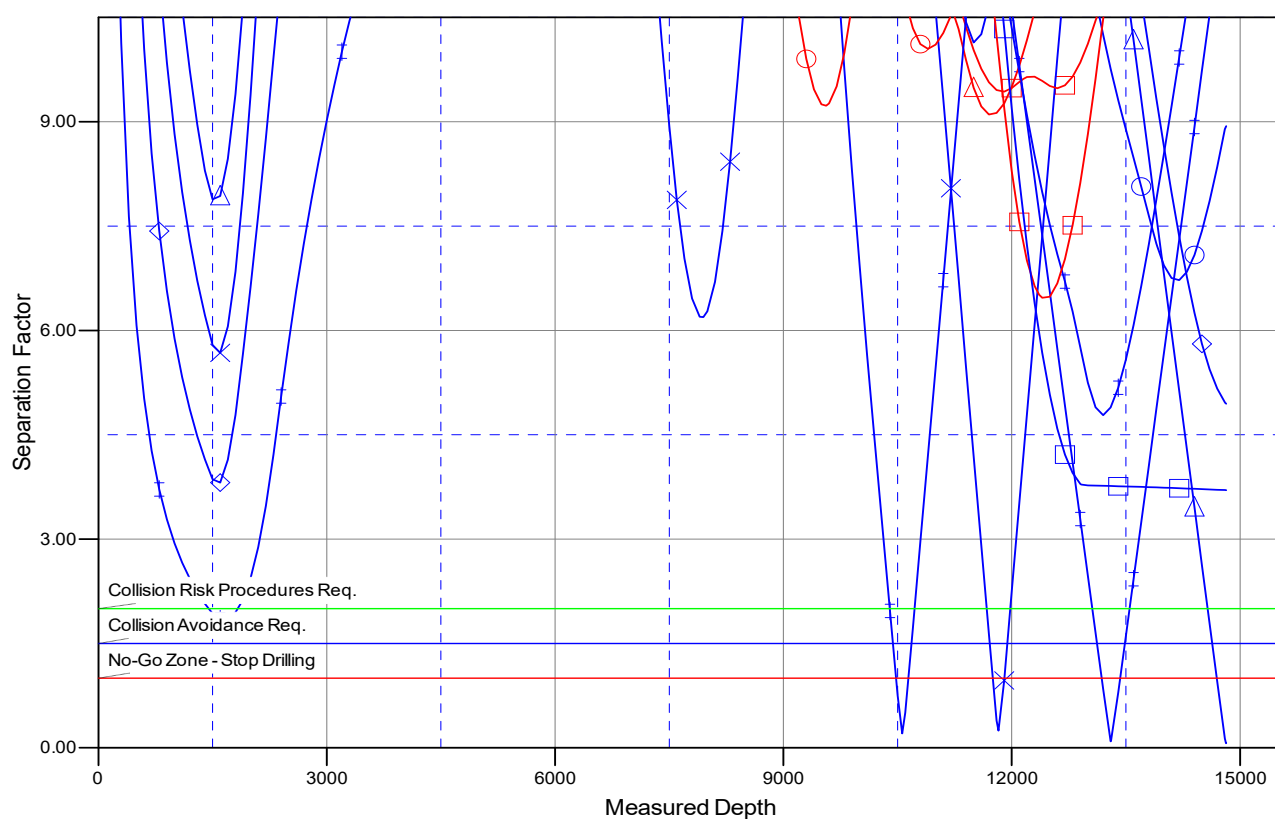
Central Meridian is -104.33333334

Coordinates are relative to: TURKS-FEE-07-211H

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

Grid Convergence at Surface is: 0.11°

Separation Factor Plot

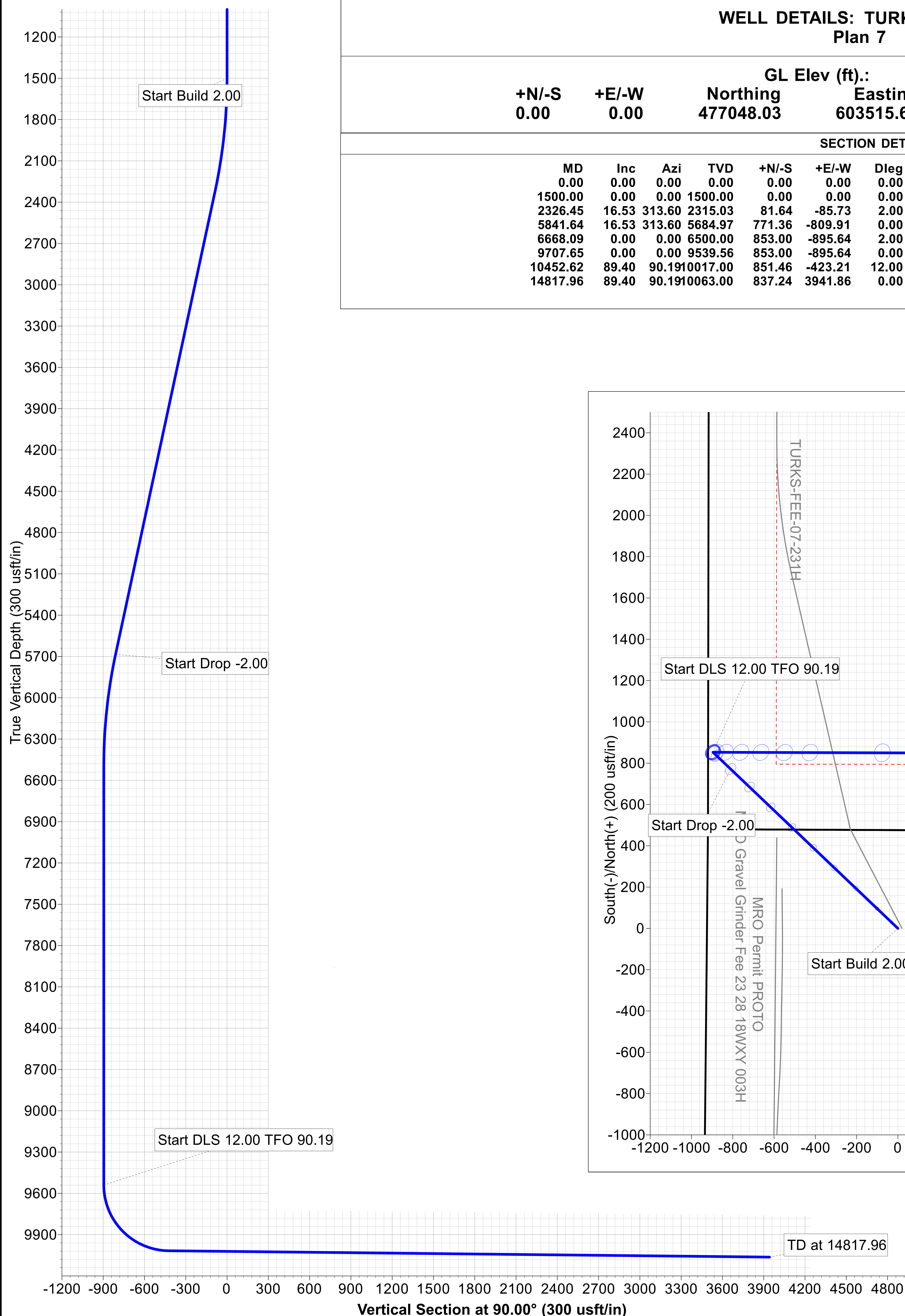


LEGEND

MRO Gravel Grinder Fee 23 28 18WA 005H, Wellbore #1, Wellbore #1 V0	CAICOS-FEE-1807-213H, Wellbore #1, Plan 1 V0	CAICOS-FEE-1807-234H, Wellbore #1, Plan 1 V0
CAICOS-FEE-1807-222H, Wellbore #1, Plan 1 V0	CAICOS-FEE-1807-233H, Wellbore #1, Plan 1 V0	TURKS-FEE-07-231H, Wellbore #1, Plan 5 V0
TURKS-FEE-07-232H, Wellbore #1, Plan 3 V0	TURKS-FEE-07-221H, Wellbore #1, Plan 3 V0	ALPHA SWD2, Wellbore #1, Wellbore #1 V0
MRO Gravel Grinder Fee 23 28 18 10H, Wellbore #1, Wellbore #1 V0	MRO PermitPROTO, Wellbore #1, Design #1 V0	MRO Gravel Grinder Fee 23 28 18WXY 003H, Wellbore #1, Wellbore #1 V0
		JohnnyB Goode WXY Fee 1H, Wellbore #1, Plan 1 V0

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

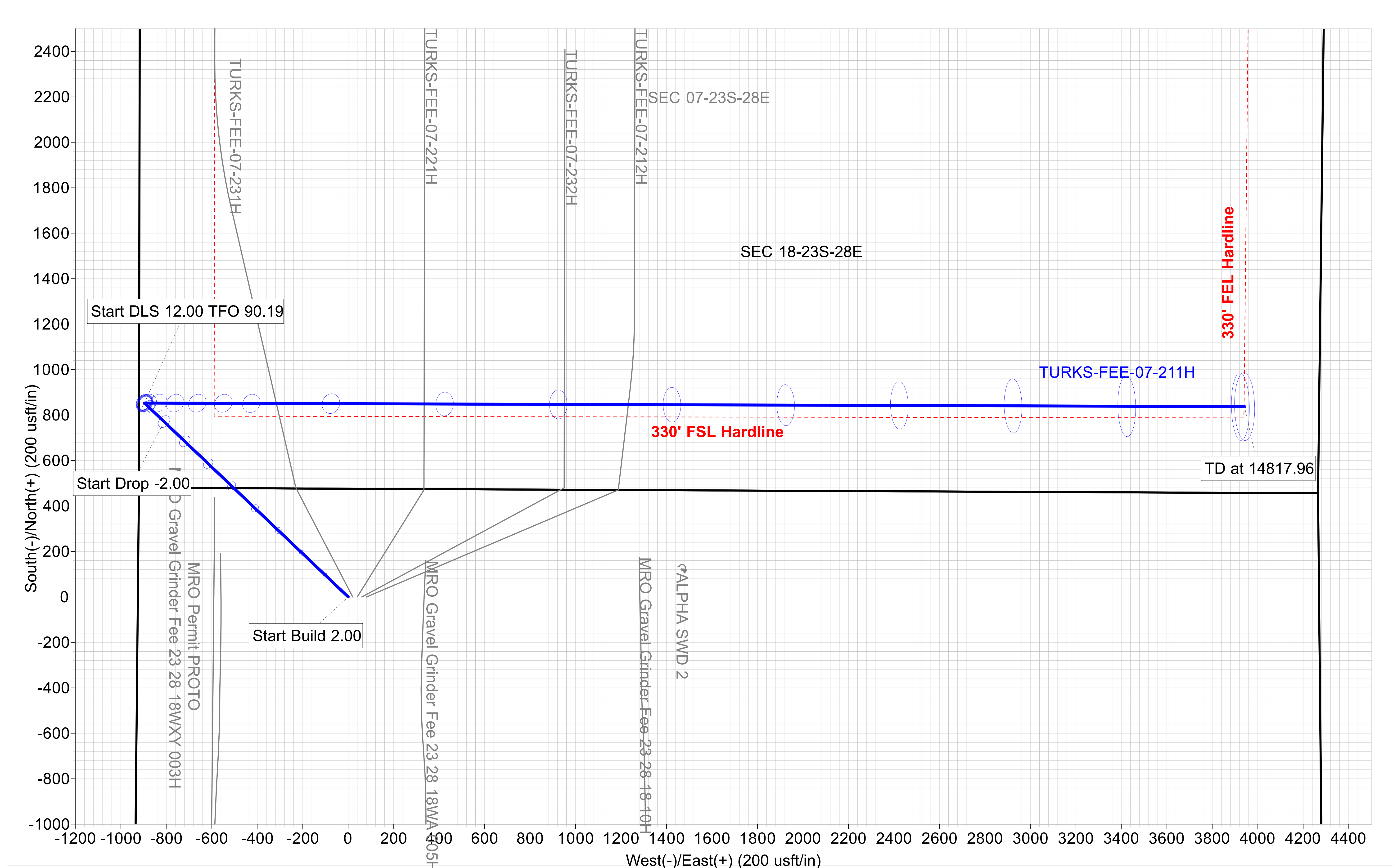
TURKS-FEE-07-211H



WELL DETAILS: TURKS-FEE-07-211H									
Plan 7									
		GL Elev (ft).:		3061.00					
+N/-S	+E/-W	Northing		Easting		Latitude		Longitude	
0.00	0.00	477048.03		603515.68		32.31131742		-104.13206800	
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	
2326.45	16.53	313.60	2315.03	81.64	-85.73	2.00	313.60	-85.73	
5841.64	16.53	313.60	5684.97	771.36	-809.91	0.00	0.00	-809.91	
6668.09	0.00	0.00	6500.00	853.00	-895.64	2.00	180.00	-895.64	
9707.65	0.00	0.00	9539.56	853.00	-895.64	0.00	0.00	-895.64	
10452.62	89.40	90.19	10017.00	851.46	-423.21	12.00	90.19	-423.21	
14817.96	89.40	90.19	10063.00	837.24	3941.86	0.00	0.00	3941.86	

Project: EDDY CO., NM (NAD83)
Site: SEC 18-23S-28E
Well: TURKS-FEE-07-211H
Wellbore: Wellbore #1
Design: Plan 7

Azimuths to Grid North
Magnetic North: 6.62°
Magnetic Field
Strength: 47413.6nT
Dip Angle: 59.87°
Date: 3/10/2022
Model: IGRF2020





NOVO Oil & Gas

EDDY CO., NM (NAD83)

SEC 18-23S-28E

TURKS-FEE-07-211H

Wellbore #1

Plan: Plan 7

Standard Planning Report

09 June, 2022





Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site:	SEC 18-23S-28E	North Reference:	Grid
Well:	TURKS-FEE-07-211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 7		

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 18-23S-28E		
Site Position:		Northing:	477,048.03 usft
From:	Map	Easting:	603,515.68 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.31131742
		Longitude:	-104.13206800

Well	TURKS-FEE-07-211H		
Well Position	+N/-S	0.00 usft	Northing: 477,048.03 usft
	+E/-W	0.00 usft	Easting: 603,515.68 usft
Position Uncertainty	0.50 usft	Wellhead Elevation:	usft
Grid Convergence:	0.11 °	Ground Level:	3,061.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/10/2022	6.72	59.87	47,413.58640579

Design	Plan 7				
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	6/9/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	14,817.96 Plan 7 (Wellbore #1)	MWD+IGRF		
			OWSG MWD + IGRF or WMM		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,326.45	16.53	313.60	2,315.03	81.64	-85.73	2.00	2.00	0.00	313.60	
5,841.65	16.53	313.60	5,684.97	771.36	-809.91	0.00	0.00	0.00	0.00	
6,668.09	0.00	0.00	6,500.00	853.00	-895.64	2.00	-2.00	0.00	180.00	
9,707.65	0.00	0.00	9,539.56	853.00	-895.64	0.00	0.00	0.00	0.00	
10,452.62	89.40	90.19	10,017.00	851.46	-423.21	12.00	12.00	12.11	90.19	
14,817.96	89.40	90.19	10,063.00	837.24	3,941.86	0.00	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site:	SEC 18-23S-28E	North Reference:	Grid
Well:	TURKS-FEE-07-211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 7		

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	2.00	313.60	1,599.98	1.20	-1.26	-1.26	2.00	2.00	0.00
1,700.00	4.00	313.60	1,699.84	4.81	-5.05	-5.05	2.00	2.00	0.00
1,800.00	6.00	313.60	1,799.45	10.82	-11.36	-11.36	2.00	2.00	0.00
1,900.00	8.00	313.60	1,898.70	19.23	-20.19	-20.19	2.00	2.00	0.00
2,000.00	10.00	313.60	1,997.47	30.02	-31.52	-31.52	2.00	2.00	0.00
2,100.00	12.00	313.60	2,095.62	43.17	-45.33	-45.33	2.00	2.00	0.00
2,200.00	14.00	313.60	2,193.06	58.69	-61.62	-61.62	2.00	2.00	0.00
2,300.00	16.00	313.60	2,289.64	76.54	-80.36	-80.36	2.00	2.00	0.00
2,326.45	16.53	313.60	2,315.03	81.64	-85.73	-85.73	2.00	2.00	0.00
2,400.00	16.53	313.60	2,385.54	96.08	-100.88	-100.88	0.00	0.00	0.00
2,500.00	16.53	313.60	2,481.41	115.70	-121.48	-121.48	0.00	0.00	0.00
2,600.00	16.53	313.60	2,577.28	135.32	-142.08	-142.08	0.00	0.00	0.00
2,700.00	16.53	313.60	2,673.15	154.94	-162.68	-162.68	0.00	0.00	0.00
2,800.00	16.53	313.60	2,769.02	174.56	-183.29	-183.29	0.00	0.00	0.00
2,900.00	16.53	313.60	2,864.88	194.18	-203.89	-203.89	0.00	0.00	0.00
3,000.00	16.53	313.60	2,960.75	213.80	-224.49	-224.49	0.00	0.00	0.00
3,100.00	16.53	313.60	3,056.62	233.42	-245.09	-245.09	0.00	0.00	0.00
3,200.00	16.53	313.60	3,152.49	253.04	-265.69	-265.69	0.00	0.00	0.00
3,300.00	16.53	313.60	3,248.35	272.66	-286.29	-286.29	0.00	0.00	0.00
3,400.00	16.53	313.60	3,344.22	292.28	-306.90	-306.90	0.00	0.00	0.00
3,500.00	16.53	313.60	3,440.09	311.91	-327.50	-327.50	0.00	0.00	0.00
3,600.00	16.53	313.60	3,535.96	331.53	-348.10	-348.10	0.00	0.00	0.00
3,700.00	16.53	313.60	3,631.82	351.15	-368.70	-368.70	0.00	0.00	0.00
3,800.00	16.53	313.60	3,727.69	370.77	-389.30	-389.30	0.00	0.00	0.00
3,900.00	16.53	313.60	3,823.56	390.39	-409.90	-409.90	0.00	0.00	0.00
4,000.00	16.53	313.60	3,919.43	410.01	-430.51	-430.51	0.00	0.00	0.00
4,100.00	16.53	313.60	4,015.29	429.63	-451.11	-451.11	0.00	0.00	0.00
4,200.00	16.53	313.60	4,111.16	449.25	-471.71	-471.71	0.00	0.00	0.00
4,300.00	16.53	313.60	4,207.03	468.87	-492.31	-492.31	0.00	0.00	0.00
4,400.00	16.53	313.60	4,302.90	488.49	-512.91	-512.91	0.00	0.00	0.00
4,500.00	16.53	313.60	4,398.76	508.11	-533.51	-533.51	0.00	0.00	0.00
4,600.00	16.53	313.60	4,494.63	527.73	-554.11	-554.11	0.00	0.00	0.00
4,700.00	16.53	313.60	4,590.50	547.36	-574.72	-574.72	0.00	0.00	0.00
4,800.00	16.53	313.60	4,686.37	566.98	-595.32	-595.32	0.00	0.00	0.00
4,900.00	16.53	313.60	4,782.23	586.60	-615.92	-615.92	0.00	0.00	0.00
5,000.00	16.53	313.60	4,878.10	606.22	-636.52	-636.52	0.00	0.00	0.00
5,100.00	16.53	313.60	4,973.97	625.84	-657.12	-657.12	0.00	0.00	0.00
5,200.00	16.53	313.60	5,069.84	645.46	-677.72	-677.72	0.00	0.00	0.00



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site:	SEC 18-23S-28E	North Reference:	Grid
Well:	TURKS-FEE-07-211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 7		

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)	
5,300.00	16.53	313.60	5,165.71	665.08	-698.33	-698.33	0.00	0.00	0.00	
5,400.00	16.53	313.60	5,261.57	684.70	-718.93	-718.93	0.00	0.00	0.00	
5,500.00	16.53	313.60	5,357.44	704.32	-739.53	-739.53	0.00	0.00	0.00	
5,600.00	16.53	313.60	5,453.31	723.94	-760.13	-760.13	0.00	0.00	0.00	
5,700.00	16.53	313.60	5,549.18	743.56	-780.73	-780.73	0.00	0.00	0.00	
5,800.00	16.53	313.60	5,645.04	763.18	-801.33	-801.33	0.00	0.00	0.00	
5,841.65	16.53	313.60	5,684.97	771.36	-809.91	-809.91	0.00	0.00	0.00	
5,900.00	15.36	313.60	5,741.08	782.41	-821.52	-821.52	2.00	-2.00	0.00	
6,000.00	13.36	313.60	5,837.95	799.52	-839.48	-839.48	2.00	-2.00	0.00	
6,100.00	11.36	313.60	5,935.62	814.28	-854.99	-854.99	2.00	-2.00	0.00	
6,200.00	9.36	313.60	6,033.99	826.68	-868.01	-868.01	2.00	-2.00	0.00	
6,300.00	7.36	313.60	6,132.92	836.71	-878.54	-878.54	2.00	-2.00	0.00	
6,400.00	5.36	313.60	6,232.30	844.35	-886.56	-886.56	2.00	-2.00	0.00	
6,500.00	3.36	313.60	6,332.00	849.60	-892.07	-892.07	2.00	-2.00	0.00	
6,600.00	1.36	313.60	6,431.91	852.44	-895.05	-895.05	2.00	-2.00	0.00	
6,668.09	0.00	0.00	6,500.00	853.00	-895.64	-895.64	2.00	-2.00	0.00	
6,700.00	0.00	0.00	6,531.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,631.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,731.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,831.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,931.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,031.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,131.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,231.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,331.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,431.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,531.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,631.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,731.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,831.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,931.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,031.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,131.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,231.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,331.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,431.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,531.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,631.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,731.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,831.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,931.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,031.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,131.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,231.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,331.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,431.91	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,707.65	0.00	0.00	9,539.56	853.00	-895.64	-895.64	0.00	0.00	0.00	
9,725.00	2.08	90.19	9,556.90	853.00	-895.32	-895.32	12.00	12.00	0.00	
9,750.00	5.08	90.19	9,581.85	852.99	-893.76	-893.76	12.00	12.00	0.00	
9,775.00	8.08	90.19	9,606.68	852.98	-890.90	-890.90	12.00	12.00	0.00	
9,800.00	11.08	90.19	9,631.33	852.97	-886.74	-886.74	12.00	12.00	0.00	
9,825.00	14.08	90.19	9,655.73	852.95	-881.29	-881.29	12.00	12.00	0.00	
9,850.00	17.08	90.19	9,679.81	852.93	-874.58	-874.58	12.00	12.00	0.00	
9,875.00	20.08	90.19	9,703.50	852.91	-866.61	-866.61	12.00	12.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site:	SEC 18-23S-28E	North Reference:	Grid
Well:	TURKS-FEE-07-211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 7		

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)	
9,900.00	23.08	90.19	9,726.75	852.88	-857.42	-857.42	12.00	12.00	0.00	
9,925.00	26.08	90.19	9,749.48	852.84	-847.02	-847.02	12.00	12.00	0.00	
9,950.00	29.08	90.19	9,771.63	852.80	-835.45	-835.45	12.00	12.00	0.00	
9,975.00	32.08	90.19	9,793.15	852.76	-822.73	-822.73	12.00	12.00	0.00	
10,000.00	35.08	90.19	9,813.98	852.72	-808.90	-808.90	12.00	12.00	0.00	
10,025.00	38.08	90.19	9,834.05	852.67	-794.00	-794.00	12.00	12.00	0.00	
10,050.00	41.08	90.19	9,853.32	852.62	-778.08	-778.08	12.00	12.00	0.00	
10,075.00	44.08	90.19	9,871.72	852.56	-761.16	-761.16	12.00	12.00	0.00	
10,100.00	47.08	90.19	9,889.22	852.50	-743.31	-743.31	12.00	12.00	0.00	
10,125.00	50.08	90.19	9,905.76	852.44	-724.56	-724.56	12.00	12.00	0.00	
10,150.00	53.08	90.19	9,921.29	852.38	-704.98	-704.98	12.00	12.00	0.00	
10,175.00	56.08	90.19	9,935.78	852.31	-684.61	-684.61	12.00	12.00	0.00	
10,200.00	59.08	90.19	9,949.18	852.24	-663.51	-663.51	12.00	12.00	0.00	
10,225.00	62.08	90.19	9,961.46	852.17	-641.73	-641.73	12.00	12.00	0.00	
10,250.00	65.08	90.19	9,972.58	852.10	-619.35	-619.35	12.00	12.00	0.00	
10,275.00	68.08	90.19	9,982.51	852.03	-596.41	-596.41	12.00	12.00	0.00	
10,300.00	71.08	90.19	9,991.23	851.95	-572.98	-572.98	12.00	12.00	0.00	
10,325.00	74.08	90.19	9,998.72	851.87	-549.13	-549.13	12.00	12.00	0.00	
10,350.00	77.08	90.19	10,004.94	851.79	-524.92	-524.92	12.00	12.00	0.00	
10,375.00	80.08	90.19	10,009.89	851.71	-500.42	-500.42	12.00	12.00	0.00	
10,400.00	83.08	90.19	10,013.55	851.63	-475.69	-475.69	12.00	12.00	0.00	
10,425.00	86.08	90.19	10,015.91	851.55	-450.81	-450.81	12.00	12.00	0.00	
10,450.00	89.08	90.19	10,016.96	851.47	-425.83	-425.83	12.00	12.00	0.00	
10,452.62	89.40	90.19	10,017.00	851.46	-423.21	-423.21	12.00	12.00	0.00	
10,500.00	89.40	90.19	10,017.50	851.31	-375.83	-375.83	0.00	0.00	0.00	
10,600.00	89.40	90.19	10,018.55	850.98	-275.84	-275.84	0.00	0.00	0.00	
10,700.00	89.40	90.19	10,019.61	850.66	-175.85	-175.85	0.00	0.00	0.00	
10,800.00	89.40	90.19	10,020.66	850.33	-75.85	-75.85	0.00	0.00	0.00	
10,900.00	89.40	90.19	10,021.71	850.00	24.14	24.14	0.00	0.00	0.00	
11,000.00	89.40	90.19	10,022.77	849.68	124.14	124.14	0.00	0.00	0.00	
11,100.00	89.40	90.19	10,023.82	849.35	224.13	224.13	0.00	0.00	0.00	
11,200.00	89.40	90.19	10,024.87	849.03	324.12	324.12	0.00	0.00	0.00	
11,300.00	89.40	90.19	10,025.93	848.70	424.12	424.12	0.00	0.00	0.00	
11,400.00	89.40	90.19	10,026.98	848.37	524.11	524.11	0.00	0.00	0.00	
11,500.00	89.40	90.19	10,028.04	848.05	624.11	624.11	0.00	0.00	0.00	
11,600.00	89.40	90.19	10,029.09	847.72	724.10	724.10	0.00	0.00	0.00	
11,700.00	89.40	90.19	10,030.14	847.40	824.09	824.09	0.00	0.00	0.00	
11,800.00	89.40	90.19	10,031.20	847.07	924.09	924.09	0.00	0.00	0.00	
11,900.00	89.40	90.19	10,032.25	846.75	1,024.08	1,024.08	0.00	0.00	0.00	
12,000.00	89.40	90.19	10,033.30	846.42	1,124.07	1,124.07	0.00	0.00	0.00	
12,100.00	89.40	90.19	10,034.36	846.09	1,224.07	1,224.07	0.00	0.00	0.00	
12,200.00	89.40	90.19	10,035.41	845.77	1,324.06	1,324.06	0.00	0.00	0.00	
12,300.00	89.40	90.19	10,036.47	845.44	1,424.06	1,424.06	0.00	0.00	0.00	
12,400.00	89.40	90.19	10,037.52	845.12	1,524.05	1,524.05	0.00	0.00	0.00	
12,500.00	89.40	90.19	10,038.57	844.79	1,624.04	1,624.04	0.00	0.00	0.00	
12,600.00	89.40	90.19	10,039.63	844.47	1,724.04	1,724.04	0.00	0.00	0.00	
12,700.00	89.40	90.19	10,040.68	844.14	1,824.03	1,824.03	0.00	0.00	0.00	
12,800.00	89.40	90.19	10,041.74	843.81	1,924.03	1,924.03	0.00	0.00	0.00	
12,900.00	89.40	90.19	10,042.79	843.49	2,024.02	2,024.02	0.00	0.00	0.00	
13,000.00	89.40	90.19	10,043.84	843.16	2,124.01	2,124.01	0.00	0.00	0.00	
13,100.00	89.40	90.19	10,044.90	842.84	2,224.01	2,224.01	0.00	0.00	0.00	
13,200.00	89.40	90.19	10,045.95	842.51	2,324.00	2,324.00	0.00	0.00	0.00	
13,300.00	89.40	90.19	10,047.00	842.19	2,424.00	2,424.00	0.00	0.00	0.00	
13,400.00	89.40	90.19	10,048.06	841.86	2,523.99	2,523.99	0.00	0.00	0.00	



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Company:	NOVO Oil & Gas	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Project:	EDDY CO., NM (NAD83)	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site:	SEC 18-23S-28E	North Reference:	Grid
Well:	TURKS-FEE-07-211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 7		

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)	
13,500.00	89.40	90.19	10,049.11	841.53	2,623.98	2,623.98	0.00	0.00	0.00	
13,600.00	89.40	90.19	10,050.17	841.21	2,723.98	2,723.98	0.00	0.00	0.00	
13,700.00	89.40	90.19	10,051.22	840.88	2,823.97	2,823.97	0.00	0.00	0.00	
13,800.00	89.40	90.19	10,052.27	840.56	2,923.97	2,923.97	0.00	0.00	0.00	
13,900.00	89.40	90.19	10,053.33	840.23	3,023.96	3,023.96	0.00	0.00	0.00	
14,000.00	89.40	90.19	10,054.38	839.90	3,123.95	3,123.95	0.00	0.00	0.00	
14,100.00	89.40	90.19	10,055.43	839.58	3,223.95	3,223.95	0.00	0.00	0.00	
14,200.00	89.40	90.19	10,056.49	839.25	3,323.94	3,323.94	0.00	0.00	0.00	
14,300.00	89.40	90.19	10,057.54	838.93	3,423.94	3,423.94	0.00	0.00	0.00	
14,400.00	89.40	90.19	10,058.60	838.60	3,523.93	3,523.93	0.00	0.00	0.00	
14,500.00	89.40	90.19	10,059.65	838.28	3,623.92	3,623.92	0.00	0.00	0.00	
14,600.00	89.40	90.19	10,060.70	837.95	3,723.92	3,723.92	0.00	0.00	0.00	
14,700.00	89.40	90.19	10,061.76	837.62	3,823.91	3,823.91	0.00	0.00	0.00	
14,800.00	89.40	90.19	10,062.81	837.30	3,923.90	3,923.90	0.00	0.00	0.00	
14,817.96	89.40	90.19	10,063.00	837.24	3,941.86	3,941.86	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TURKS-FEE-07-211H P - hit/miss target - Shape - Point	0.00	0.00	9,338.05	5,669.46	-580.94	482,717.49	602,934.74	32.32690489	-104.13391429
- plan misses target center by 4826.73usft at 9506.14usft MD (9338.05 TVD, 853.00 N, -895.64 E)									
TURKS-FEE-07-211H L - plan misses target center by 4597.26usft at 9506.94usft MD (9338.85 TVD, 853.00 N, -895.64 E) - Point	0.00	0.00	9,338.85	5,439.51	-581.38	482,487.54	602,934.30	32.32627280	-104.13391710
TURKS-FEE-07-211H F - plan misses target center by 309.27usft at 9523.09usft MD (9355.00 TVD, 853.00 N, -895.64 E) - Point	0.00	0.00	9,355.00	808.65	-589.57	477,856.68	602,926.12	32.31354330	-104.13397150

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
14,416.31	10,058.77	20" Casing	20	24	

NOVO OIL & GAS NORTHERN DELAWARE, LLC
Turks Fee 07 211H
 SHL: 476' FNL & 925 FWL of Section 18-23S-28E
 BHL: 380' FSL & 130 FEL of Section 7-23S-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	2,725	2,745	N/A
Bell Canyon sandstone	2,765	2,795	Hydrocarbons
Cherry Canyon sandstone	3,792	3,832	Hydrocarbons
Brushy Canyon sandstone	4,796	4,846	Hydrocarbons
Bone Spring limestone	6,320	6,380	Hydrocarbons
Avalon shale	6,963	7,033	Hydrocarbons
1st Bone Spring sandstone	7,325	7,405	Hydrocarbons
2nd Bone Spring carbonate	7,538	7,628	Hydrocarbons
2nd Bone Spring sandstone	8,081	8,181	Hydrocarbons
3rd Bone Spring carbonate	8,466	8,576	Hydrocarbons
Wolfcamp XY	9,300	9,420	Hydrocarbons
Wolfcamp A	9,500	9,630	Hydrocarbons
Wolfcamp B	9,800	9,940	Hydrocarbons
Wolfcamp B Flow Unit	10,000	10,150	Hydrocarbons
Wolfcamp C	10,100	10,100	Hydrocarbons
Intermediate Casing Point	9,296	9,416	
KOP	9,540	9,708	
TD	10,063	14,818	

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 2045.12 psi) high for 30 minutes

NOVO OIL & GAS NORTHERN DELAWARE, LLC
Turks Fee 07 211H
 SHL: 476' FNL & 925 FWL of Section 18-23S-28E
 BHL: 380' FSL & 130 FEL of Section 7-23S-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 MURU 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	9,446	0	9,296	P-110 HP	32	Talon HTQ	1.125	1.125	1.6
Production	7 7/8	5 1/2	API	No	0	14,818	0	10,063	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	9,446	0	9,296	P-110 HP	32	TLW	1.125	1.125	1.6
Production	7 7/8	5 1/2	API	No	0	15,263	0	9,996	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	626	3.58	2241.8	10	100%	C or H	Fluid Loss, Retarder, LCM, Possibly beads
	Tail	8296	130	1.39	180.7	13.8	50%	C or H	Fluid Loss, Retarder, LCM
Production	Lead	0	724	2.12	1535.8	12	20%	H	Fluid Loss, Retarder, LCM
	Tail	7296	1262	1.59	2007.4	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	9296	Brine Diesel Emulsion	8.8-9.6	35-45	NC
Production	9296	14,818	Oil Based Mud	11-12.5	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 ≈3757 psi. Anticipated bottom hole pressure is ≈5679 psi. Expected bottom hole temperature is ≈215° F.

8. OTHER INFORMATION

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

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

CONDITIONS

Action 117632

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 117632
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	No NSL required	6/16/2022
kpickford	Adhere to previous NMOCD Conditions of Approval	6/16/2022