

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

WELL API NO. 30-015-49461
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Turks Fee 07
8. Well Number 211H
9. OGRID Number 372920
10. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)

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.)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	
2. Name of Operator Novo Oil & Gas Northern Delaware, LLC	
3. Address of Operator 1001 West Wilshire Blvd, Suite 206, Oklahoma City, OK 73116	
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	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3061 GR	

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 move the FTP from 330 FSL & 330 FWL, Sec 7, T. 23S, R. 28E (32.3135433, -104.1339715) to 380 FSL & 330 FWL, Sec 7, T. 23S, R. 28E (32.3136807, -104.1339710) and the BHL from 100 FNL & 330 FWL, Sec 7, T. 23S, R. 28E (32.3269049, -104.1339143) to 380 FSL & 180 FEL, Sec 7, T. 23S, R. 28E (32.3135943, -104.1185652).

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

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 6/10/2022

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
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District III
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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	180	EAST	EDDY

¹² Dedicated Acres 318.34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	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: 6-9-2022 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 9, 2022 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 12797 Professional Surveyor: NEW MEXICO SURVEYORS ASSOCIATION
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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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
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		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		
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	ES	
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			
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
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	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				Offset					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	
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		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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	

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
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	
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		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)			
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			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Distance	Warning	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					
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					Rule Assigned:							Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
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 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)			
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
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	90.26	-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						Rule Assigned:					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)	Minimum Separation (usft)		Separation Factor	
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
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
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		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	90.20	-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					Rule Assigned:				Offset Well Error:	0.50 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
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 <th colspan="7">Rule Assigned:</th> <th>Offset Well Error:</th> <td>0.50 usft</td>					Rule Assigned:							Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,400.00	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	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
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)	Minimum Separation (usft)	Separation Factor	Warning
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



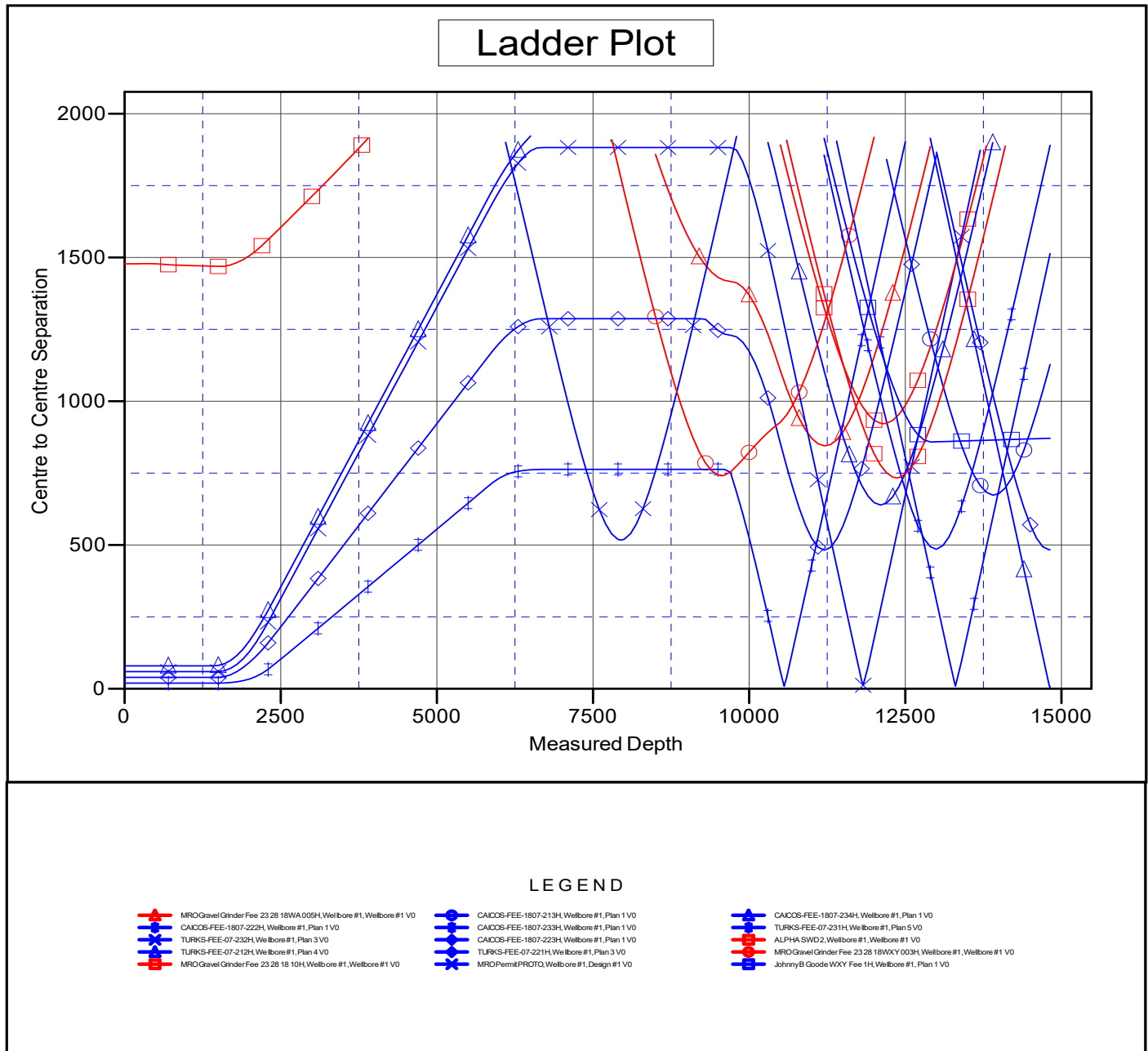
Anticollision Report



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

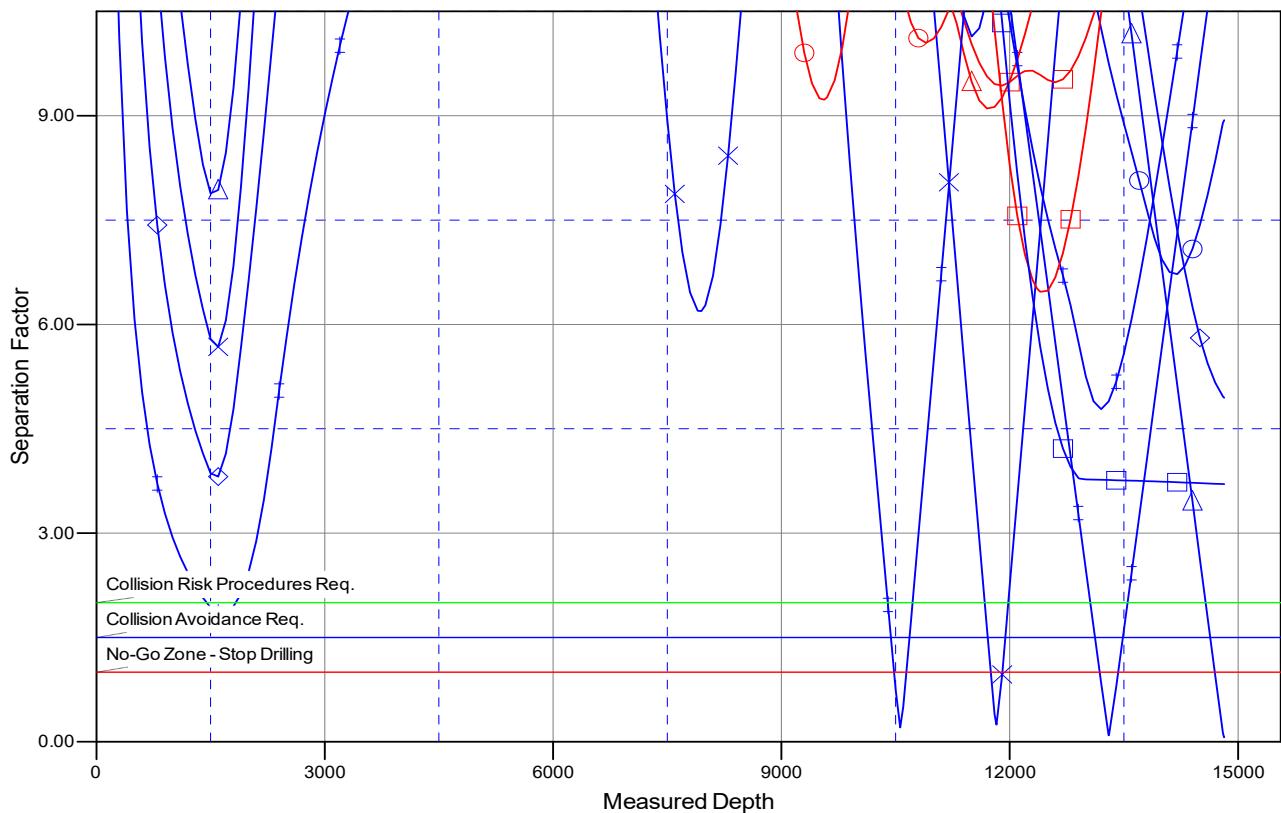


Company:	NOVO Oil & Gas	Local Co-ordinate Reference:	Well TURKS-FEE-07-211H
Project:	EDDY CO., NM (NAD83)	TVD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Reference Site:	SEC 18-23S-28E	MD Reference:	RKB 25' + GL 3061 @ 3086.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	TURKS-FEE-07-211H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

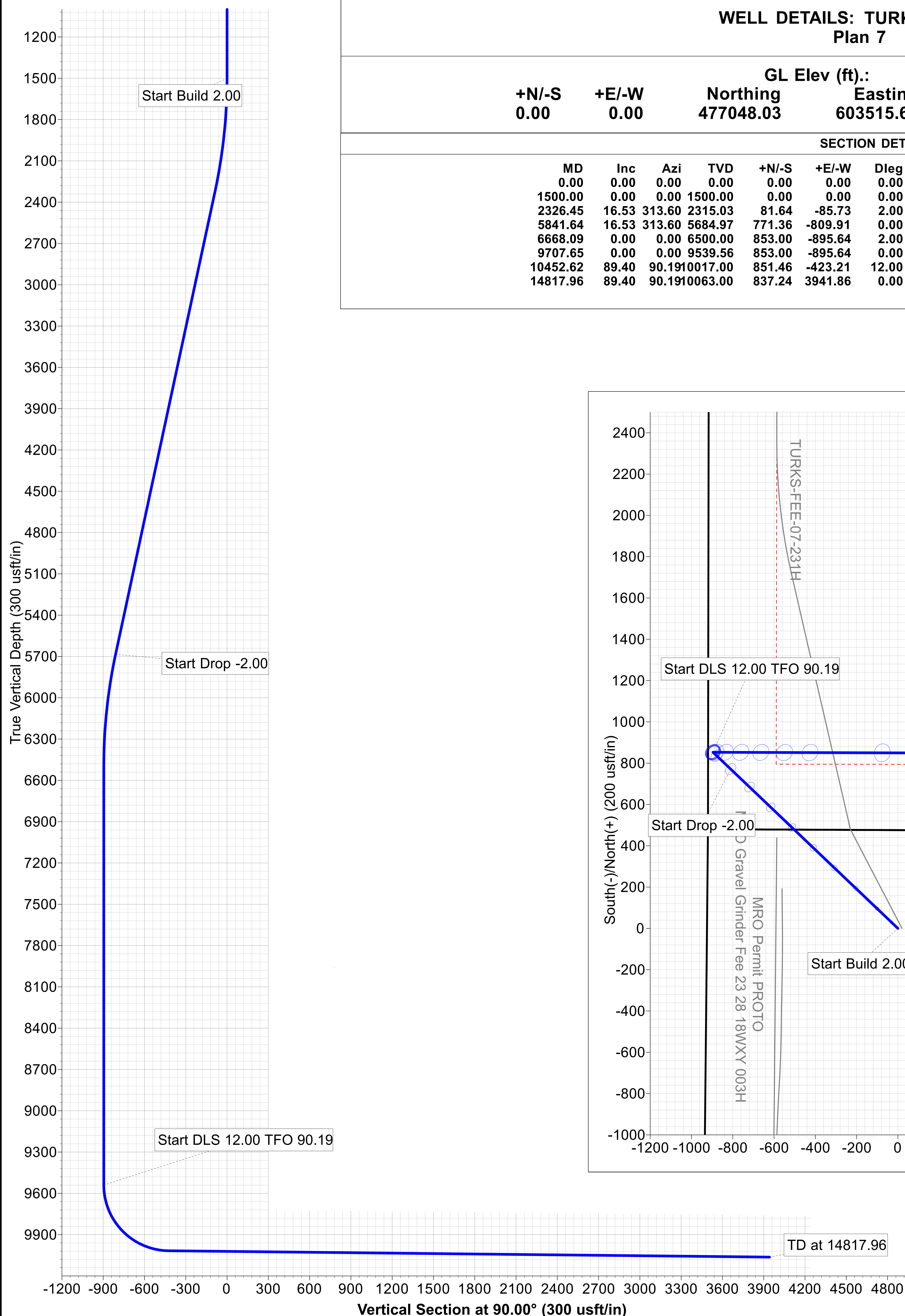


LEGEND

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
TURKS-FEE-07-212H, Wellbore #1, Plan 4 V0	MRO PermitPROTO, Wellbore #1, Design #1 V0	MRO Gravel Grinder Fee 23 28 18WXY 003H, Wellbore #1, Wellbore #1 V0
MRO Gravel Grinder Fee 23 28 18 10H, 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

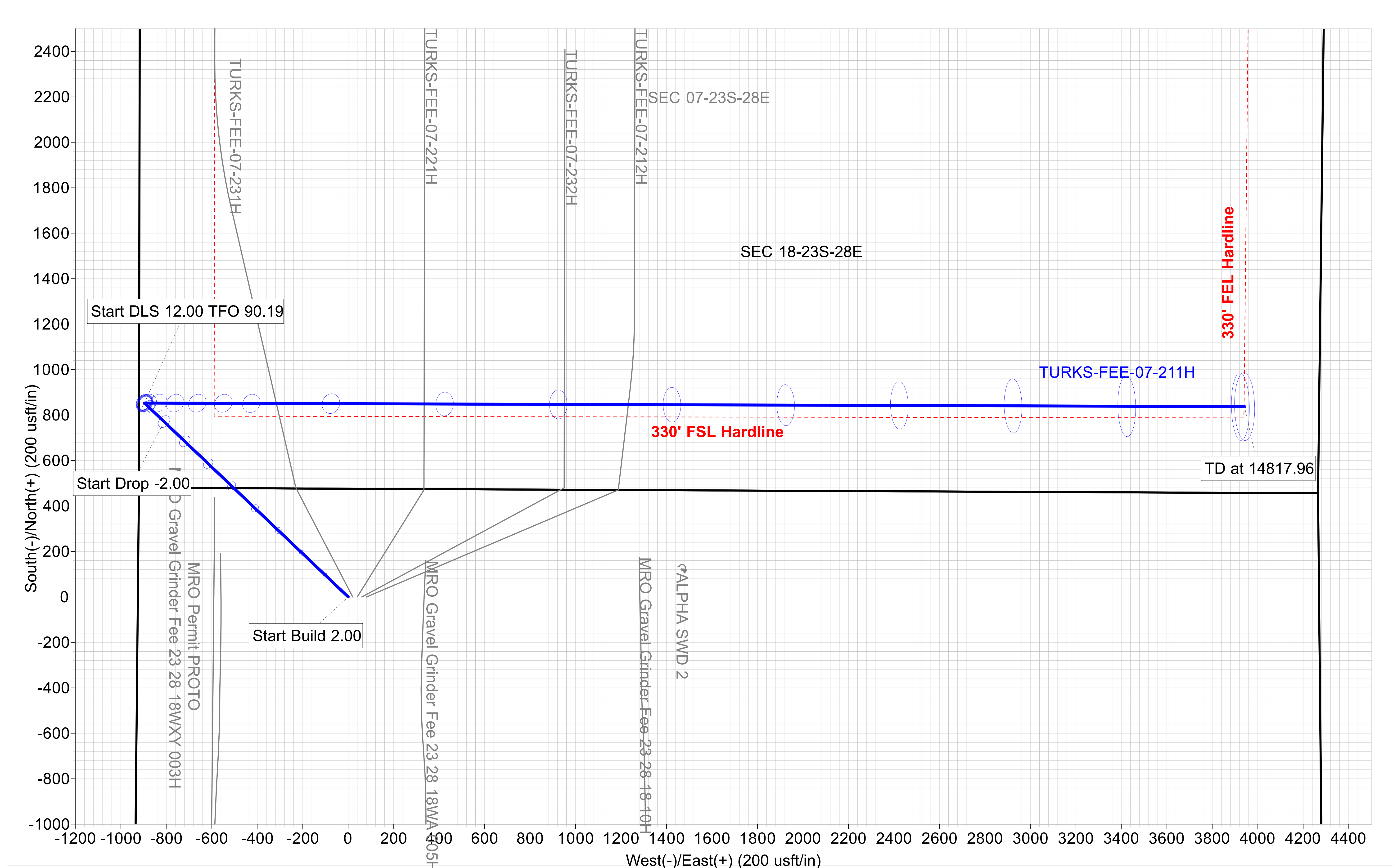
TURKS-FEE-07-211H



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 & 180 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

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4. CASING & CEMENT

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

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

Casing Details

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	BTM MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	410	0	410	J-55	54.5	BTC	1.125	1.125	1.6
Intermediate	9 7/8	8 5/8	API	No	0	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	9996	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

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District II

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District IV

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

CONDITIONS

Action 115985

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 115985
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	NSL Will require an administrative order for non-standard location prior to placing the well on production.	6/13/2022
kpickford	Adhere to previous NMOCD Conditions of Approval	6/13/2022