

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Read & Stevens, Inc. PO Box 1518 Roswell, NM 88202		² OGRID Number 18917
		³ Reason for Filing Code/ Effective Date RT
⁴ API Number 30 - 0 25-43679	⁵ Pool Name Quail Ridge; BS-South	⁶ Pool Code 50461
⁷ Property Code 328143	⁸ Property Name North Lea 10 Federal	⁹ Well Number 1H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	10	20S	34E		200'	FNL	575'	FEL	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	20S	34E		179'	FSL	398'	FEL	Lea
¹² Lse Code F	¹³ Producing Method P Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
195739	Plains Pipeline, LP	O
034053	Plains Marketing, LP	O
24650	Targa Midstream Services, LLC	G

IV. Well Completion Data

²¹ Spud Date 01/23/2020	²² Ready Date 11/15/2021	²³ TD 15,740'	²⁴ PBDT	²⁵ Perforations 11,200-15,660'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5		13 3/8" J-55 54.5#	1,773'		1,369 sxs
12.25		9 5/8" HCL 80 LT&C	5,350'		608 sxs
8.75		5 1/2" HCP 110 GCDC	15,740'		2,536 sxs

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed name: Kelly Barajas Title: Production Reporting E-mail Address: kbarajas@read-stevens.com Date: 2/8/2022	Phone: 575-624-3760	OIL CONSERVATION DIVISION	
		Approved by: <i>PATRICIA MARTINEZ</i>	
		Title: <i>PETROLEUM SPECIALIST</i>	
		Approval Date: <i>2/9/2022</i>	
		<i>RT EXPIRES 2/15/2022</i>	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 1911

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43679		² Pool Code 50461		³ Pool Name Quail Ridge; BS-South					
⁴ Property Code 328143		⁵ Property Name NORTH LEA 10 FEDERAL						⁶ Well Number 1H	
⁷ OGRID No. 18917		⁸ Operator Name READ & STEVENS, INC.						⁹ Elevation 3650.8	
¹⁰ Surface Location									
UL or lot no. A	Section 10	Township 20 S	Range 34 E	Lot Idn	Feet from the 200	North/South line NORTH	Feet from the 575	East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. P	Section 10	Township 20 S	Range 34 E	Lot Idn	Feet from the 179	North/South line SOUTH	Feet from the 398	East/West line EAST	County LEA
¹² Dedicated Acres 160		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

N89°19'33"E 2632.55 FT NW CORNER SEC. 10 LAT. = 32.5948668°N LONG. = 103.5566124°W NMSP EAST (FT) N = 581016.73 E = 780547.35 AS-DRILLED N/4 CORNER SEC. 10 LAT. = 32.5948987°N LONG. = 103.5480666°W NMSP EAST (FT) N = 581047.70 E = 783179.21 SURFACE LOCATION KOP FTP N89°22'54"E 2642.76 FT NE CORNER SEC. 10 LAT. = 32.5949232°N LONG. = 103.5394877°W NMSP EAST (FT) N = 581076.22 E = 785821.29				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Kelly Barajas</i> 11/29/2021 Signature Date Kelly Barajas Printed Name kbarajas@read-stevens.com E-mail Address			
N00°05'29"W 2637.48 FT W/4 CORNER SEC. 10 LAT. = 32.5876190°N LONG. = 103.5566612°W NMSP EAST (FT) N = 578379.77 E = 780551.56 KICK OFF POINT 114' FNL, 329' FEL LAT. = 32.5946075°N LONG. = 103.5405567°W N = 580958.91 E = 785492.91 FIRST TAKE POINT 630' FNL, 329' FEL LAT. = 32.5931887°N LONG. = 103.5405565°W N = 580442.72 E = 785496.83 E/4 CORNER SEC. 10 LAT. = 32.5876781°N LONG. = 103.5394863°W NMSP EAST (FT) N = 578440.31 E = 785841.38				¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. NOVEMBER 29, 2021 Date of Survey <i>William F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 SURVEY NO. 6921A			
N00°24'42"W 2639.22 FT SW CORNER SEC. 10 LAT. = 32.5803663°N LONG. = 103.5566622°W NMSP EAST (FT) N = 575741.14 E = 780570.52 LAST TAKE POINT 184' FSL, 389' FEL LAT. = 32.5809107°N LONG. = 103.5407839°W N = 575975.24 E = 785460.06 BOTTOM OF HOLE LAT. = 32.5808970°N LONG. = 103.5480776°W NMSP EAST (FT) N = 575970.26 E = 785459.58 SE CORNER SEC. 10 LAT. = 32.5804098°N LONG. = 103.5394939°W NMSP EAST (FT) N = 575795.96 E = 785858.79 LTP BOTTOM OF HOLE				S00°26'13"E 2636.50 FT S00°22'37"E 2644.92 FT S89°26'10"W 2644.92 FT S89°22'33"W 2644.68 FT			

Intent ☐ As Drilled ☒

API #		
Operator Name: READ & STEVENS, INC.	Property Name: NORTH LEA 10 FEDERAL	Well Number 1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	10	20S	34E		114	NORTH	329	EAST	LEA
Latitude 32.5946075					Longitude 103.5405567				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	10	20S	34E		630	NORTH	329	EAST	LEA
Latitude 32.5931887					Longitude 103.5405565				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	10	20S	34E		184	SOUTH	389	EAST	LEA
Latitude 32.5809107					Longitude 103.5407839				NAD 83

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

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

READ & STEVENS, INC

Project: Lea County, NM (NAD83) NMEZ Grid

Site: North Lea 10 Federal 1H

Well: 1H

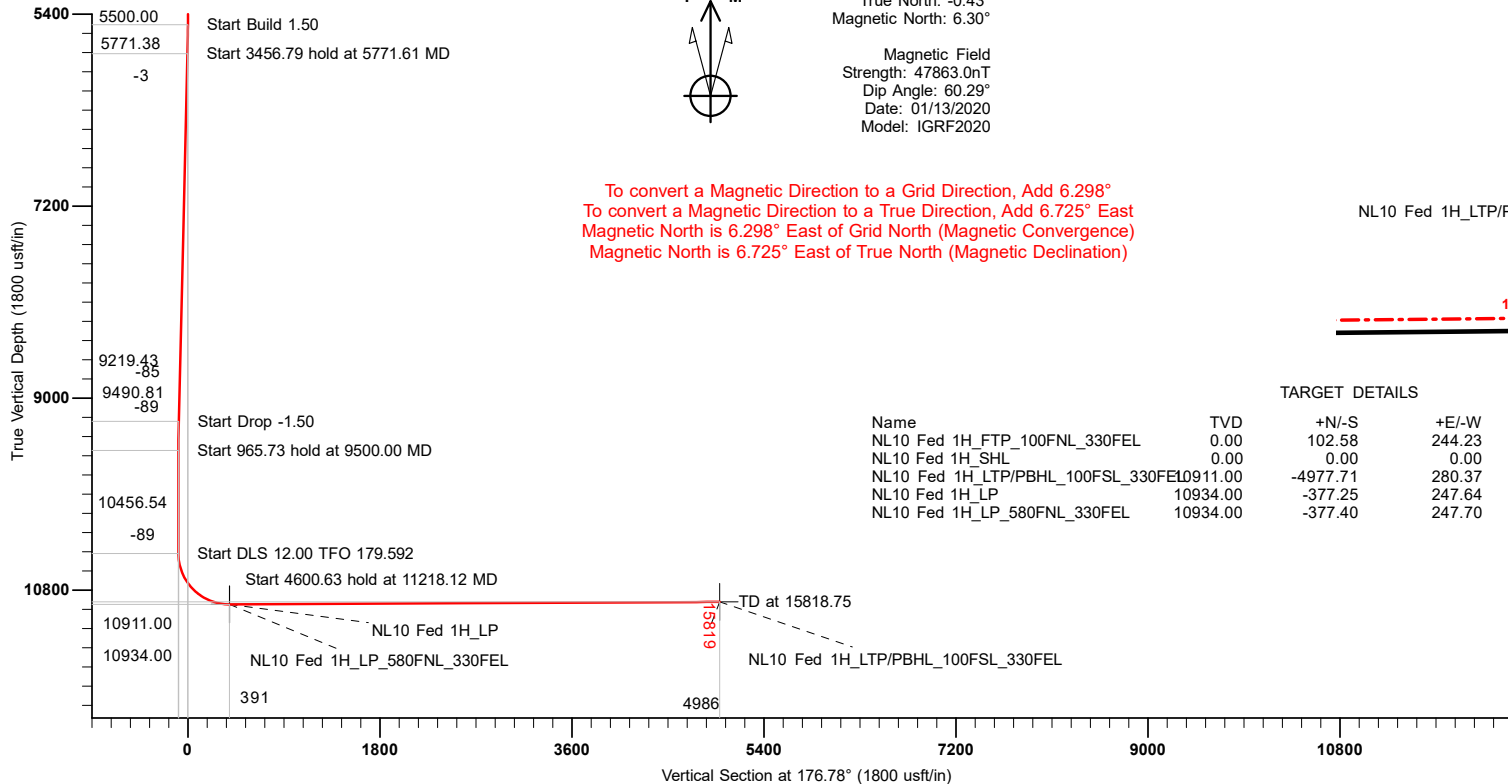
Wellbore: Lateral

Design: Plan #2

3651+20 @ 3671.00usft (McVay)
North American Datum 1983

SECTION DETAILS

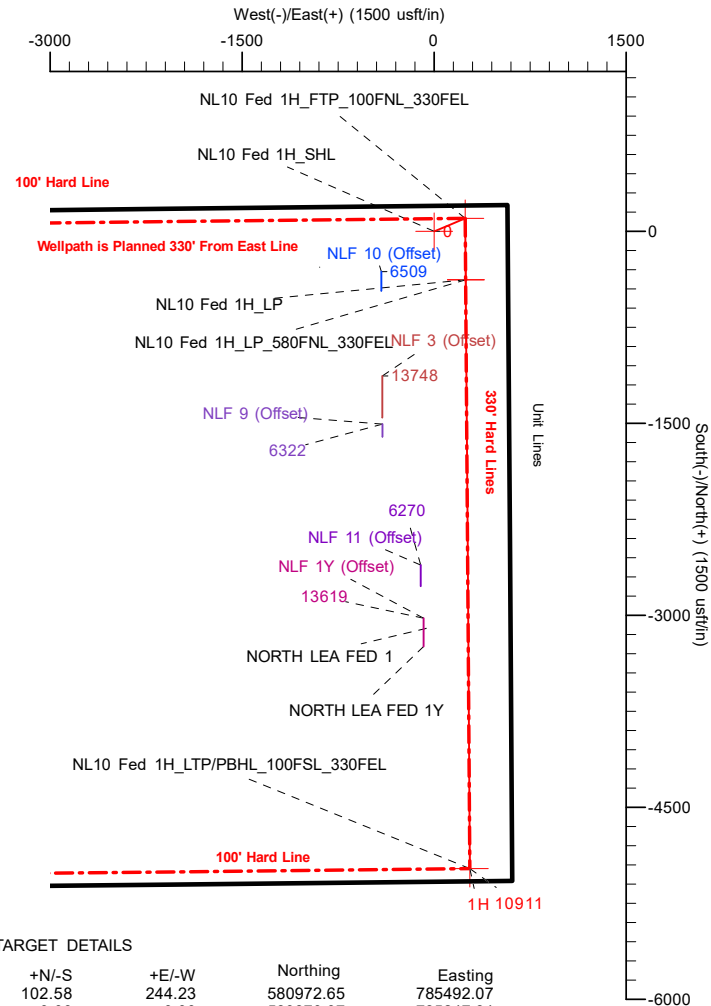
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.000	0.00	
5771.61	4.07	67.22	5771.38	3.74	8.90	1.50	67.216	-3.23	
9228.39	4.07	67.22	9219.43	98.85	235.33	0.00	0.000	-85.46	
9500.00	0.00	0.00	9490.81	102.58	244.23	1.50	180.000	-88.69	
10465.73	0.00	0.00	10456.54	102.58	244.23	0.00	0.000	-88.69	
11218.12	90.29	179.59	10934.00	-377.25	247.64	12.00	179.592	390.58	
15818.75	90.29	179.59	10911.00	-4977.71	280.37	0.00	0.000	4985.60	NL10 Fed 1H_LTP/PBHL_100FSL_330FEL



Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.30°

Magnetic Field
Strength: 47863.0nT
Dip Angle: 60.29°
Date: 01/13/2020
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.298°
To convert a Magnetic Direction to a True Direction, Add 6.725° East
Magnetic North is 6.298° East of Grid North (Magnetic Convergence)
Magnetic North is 6.725° East of True North (Magnetic Declination)



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
NL10 Fed 1H_FTP_100FNL_330FEL	0.00	102.58	244.23	580972.65	785492.07
NL10 Fed 1H_SHL	0.00	0.00	0.00	580870.07	785247.84
NL10 Fed 1H_LTP/PBHL_100FSL_330FEL	10911.00	-4977.71	280.37	575892.36	785528.21
NL10 Fed 1H_LP	10934.00	-377.25	247.64	580492.82	785495.48
NL10 Fed 1H_LP_580FNL_330FEL	10934.00	-377.40	247.70	580492.67	785495.54

Plan: Plan #2 (1H/Lateral)
Created By: Mekka Williams
eSolina Well Design
mekka@esolinawell.com
14:16, January 14 2020

TRUE PERFORMANCE DIRECTIONAL
5075 E 52ND ST, ODESSA TX 79762
903-777-6827



Planning Report

Database:	TPDNEW_EDM	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Company:	READ & STEVENS, INC	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site:	North Lea 10 Federal 1H	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

Project	Lea County, NM (NAD83) NMEZ Grid		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	North Lea 10 Federal 1H			
Site Position:		Northing:	580,870.07 usft	Latitude: 32.59436838°N
From: Map		Easting:	785,247.84 usft	Longitude: 103.54135453°W
Position Uncertainty:	0.00 usft	Slot Radius:	1.10 ft	Grid Convergence: 0.427 °

Well	1H - Slot NL FC 1H			
Well Position	+N/-S	0.00 usft	Northing:	580,870.07 usft
	+E/-W	0.00 usft	Easting:	785,247.84 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	
			Ground Level:	3,651.00 usft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	01/13/20	6.725	60.291	47,862.9674

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	176.78

Plan Survey Tool Program	Date	01/14/20		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,818.21	Plan #2 (Lateral)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.000	
5,771.61	4.07	67.22	5,771.38	3.74	8.90	1.50	1.50	0.00	67.216	
9,228.39	4.07	67.22	9,219.43	98.85	235.33	0.00	0.00	0.00	0.000	
9,500.00	0.00	0.00	9,490.81	102.58	244.23	1.50	-1.50	0.00	180.000	
10,465.73	0.00	0.00	10,456.54	102.58	244.23	0.00	0.00	0.00	0.000	
11,218.12	90.29	179.59	10,934.00	-377.25	247.64	12.00	12.00	23.87	179.592	
15,818.75	90.29	179.59	10,911.00	-4,977.71	280.37	0.00	0.00	0.00	0.000	NL10 Fed 1H_LTP/PE

Planning Report

Database:	TPDNEW_EDM	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Company:	READ & STEVENS, INC	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site:	North Lea 10 Federal 1H	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Planning Report

Database:	TPDNEW_EDM	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Company:	READ & STEVENS, INC	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site:	North Lea 10 Federal 1H	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	1.50	67.22	5,599.99	0.51	1.21	-0.44	1.50	1.50	0.00
5,700.00	3.00	67.22	5,699.91	2.03	4.83	-1.75	1.50	1.50	0.00
5,771.61	4.07	67.22	5,771.38	3.74	8.90	-3.23	1.50	1.50	0.00
5,800.00	4.07	67.22	5,799.70	4.52	10.76	-3.91	0.00	0.00	0.00
5,900.00	4.07	67.22	5,899.45	7.27	17.31	-6.29	0.00	0.00	0.00
6,000.00	4.07	67.22	5,999.19	10.02	23.86	-8.66	0.00	0.00	0.00
6,100.00	4.07	67.22	6,098.94	12.77	30.41	-11.04	0.00	0.00	0.00
6,200.00	4.07	67.22	6,198.69	15.52	36.96	-13.42	0.00	0.00	0.00
6,300.00	4.07	67.22	6,298.44	18.28	43.51	-15.80	0.00	0.00	0.00
6,400.00	4.07	67.22	6,398.18	21.03	50.06	-18.18	0.00	0.00	0.00
6,500.00	4.07	67.22	6,497.93	23.78	56.61	-20.56	0.00	0.00	0.00
6,600.00	4.07	67.22	6,597.68	26.53	63.16	-22.94	0.00	0.00	0.00
6,700.00	4.07	67.22	6,697.43	29.28	69.71	-25.31	0.00	0.00	0.00
6,800.00	4.07	67.22	6,797.17	32.03	76.26	-27.69	0.00	0.00	0.00
6,900.00	4.07	67.22	6,896.92	34.78	82.81	-30.07	0.00	0.00	0.00
7,000.00	4.07	67.22	6,996.67	37.54	89.36	-32.45	0.00	0.00	0.00
7,100.00	4.07	67.22	7,096.41	40.29	95.91	-34.83	0.00	0.00	0.00
7,200.00	4.07	67.22	7,196.16	43.04	102.46	-37.21	0.00	0.00	0.00
7,300.00	4.07	67.22	7,295.91	45.79	109.01	-39.59	0.00	0.00	0.00
7,400.00	4.07	67.22	7,395.66	48.54	115.56	-41.97	0.00	0.00	0.00
7,500.00	4.07	67.22	7,495.40	51.29	122.11	-44.34	0.00	0.00	0.00
7,600.00	4.07	67.22	7,595.15	54.04	128.67	-46.72	0.00	0.00	0.00
7,700.00	4.07	67.22	7,694.90	56.80	135.22	-49.10	0.00	0.00	0.00
7,800.00	4.07	67.22	7,794.65	59.55	141.77	-51.48	0.00	0.00	0.00
7,900.00	4.07	67.22	7,894.39	62.30	148.32	-53.86	0.00	0.00	0.00
8,000.00	4.07	67.22	7,994.14	65.05	154.87	-56.24	0.00	0.00	0.00
8,100.00	4.07	67.22	8,093.89	67.80	161.42	-58.62	0.00	0.00	0.00
8,200.00	4.07	67.22	8,193.63	70.55	167.97	-60.99	0.00	0.00	0.00
8,300.00	4.07	67.22	8,293.38	73.30	174.52	-63.37	0.00	0.00	0.00
8,400.00	4.07	67.22	8,393.13	76.05	181.07	-65.75	0.00	0.00	0.00
8,500.00	4.07	67.22	8,492.88	78.81	187.62	-68.13	0.00	0.00	0.00
8,600.00	4.07	67.22	8,592.62	81.56	194.17	-70.51	0.00	0.00	0.00
8,700.00	4.07	67.22	8,692.37	84.31	200.72	-72.89	0.00	0.00	0.00
8,800.00	4.07	67.22	8,792.12	87.06	207.27	-75.27	0.00	0.00	0.00
8,900.00	4.07	67.22	8,891.87	89.81	213.82	-77.64	0.00	0.00	0.00
9,000.00	4.07	67.22	8,991.61	92.56	220.37	-80.02	0.00	0.00	0.00
9,100.00	4.07	67.22	9,091.36	95.31	226.92	-82.40	0.00	0.00	0.00
9,200.00	4.07	67.22	9,191.11	98.07	233.47	-84.78	0.00	0.00	0.00
9,228.39	4.07	67.22	9,219.43	98.85	235.33	-85.46	0.00	0.00	0.00
9,300.00	3.00	67.22	9,290.90	100.56	239.40	-86.94	1.50	-1.50	0.00
9,400.00	1.50	67.22	9,390.82	102.08	243.02	-88.25	1.50	-1.50	0.00
9,500.00	0.00	0.00	9,490.81	102.58	244.23	-88.69	1.50	-1.50	0.00
9,600.00	0.00	0.00	9,590.81	102.58	244.23	-88.69	0.00	0.00	0.00
9,700.00	0.00	0.00	9,690.81	102.58	244.23	-88.69	0.00	0.00	0.00
9,800.00	0.00	0.00	9,790.81	102.58	244.23	-88.69	0.00	0.00	0.00
9,900.00	0.00	0.00	9,890.81	102.58	244.23	-88.69	0.00	0.00	0.00
10,000.00	0.00	0.00	9,990.81	102.58	244.23	-88.69	0.00	0.00	0.00
10,100.00	0.00	0.00	10,090.81	102.58	244.23	-88.69	0.00	0.00	0.00
10,200.00	0.00	0.00	10,190.81	102.58	244.23	-88.69	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.81	102.58	244.23	-88.69	0.00	0.00	0.00
10,400.00	0.00	0.00	10,390.81	102.58	244.23	-88.69	0.00	0.00	0.00
10,465.73	0.00	0.00	10,456.54	102.58	244.23	-88.69	0.00	0.00	0.00

Planning Report

Database:	TPDNEW_EDM	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Company:	READ & STEVENS, INC	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site:	North Lea 10 Federal 1H	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

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)	
10,475.00	1.11	179.59	10,465.81	102.49	244.23	-88.60	12.00	12.00	0.00	
10,500.00	4.11	179.59	10,490.78	101.36	244.24	-87.46	12.00	12.00	0.00	
10,525.00	7.11	179.59	10,515.66	98.91	244.26	-85.02	12.00	12.00	0.00	
10,550.00	10.11	179.59	10,540.37	95.17	244.28	-81.28	12.00	12.00	0.00	
10,575.00	13.11	179.59	10,564.86	90.14	244.32	-76.25	12.00	12.00	0.00	
10,600.00	16.11	179.59	10,589.04	83.83	244.36	-69.96	12.00	12.00	0.00	
10,625.00	19.11	179.59	10,612.87	76.27	244.42	-62.40	12.00	12.00	0.00	
10,650.00	22.11	179.59	10,636.27	67.47	244.48	-53.61	12.00	12.00	0.00	
10,675.00	25.11	179.59	10,659.17	57.46	244.55	-43.61	12.00	12.00	0.00	
10,700.00	28.11	179.59	10,681.52	46.26	244.63	-32.43	12.00	12.00	0.00	
10,725.00	31.11	179.59	10,703.25	33.91	244.72	-20.09	12.00	12.00	0.00	
10,750.00	34.11	179.59	10,724.31	20.44	244.81	-6.64	12.00	12.00	0.00	
10,775.00	37.11	179.59	10,744.63	5.88	244.92	7.90	12.00	12.00	0.00	
10,800.00	40.11	179.59	10,764.16	-9.72	245.03	23.48	12.00	12.00	0.00	
10,825.00	43.11	179.59	10,782.85	-26.32	245.15	40.06	12.00	12.00	0.00	
10,850.00	46.11	179.59	10,800.65	-43.87	245.27	57.60	12.00	12.00	0.00	
10,875.00	49.11	179.59	10,817.50	-62.34	245.40	76.04	12.00	12.00	0.00	
10,900.00	52.11	179.59	10,833.36	-81.66	245.54	95.33	12.00	12.00	0.00	
10,925.00	55.11	179.59	10,848.19	-101.78	245.68	115.43	12.00	12.00	0.00	
10,950.00	58.11	179.59	10,861.95	-122.65	245.83	136.28	12.00	12.00	0.00	
10,975.00	61.11	179.59	10,874.59	-144.21	245.99	157.82	12.00	12.00	0.00	
11,000.00	64.11	179.59	10,886.09	-166.41	246.14	179.98	12.00	12.00	0.00	
11,025.00	67.11	179.59	10,896.41	-189.17	246.31	202.72	12.00	12.00	0.00	
11,050.00	70.11	179.59	10,905.53	-212.45	246.47	225.97	12.00	12.00	0.00	
11,075.00	73.11	179.59	10,913.41	-236.17	246.64	249.66	12.00	12.00	0.00	
11,100.00	76.11	179.59	10,920.05	-260.27	246.81	273.74	12.00	12.00	0.00	
11,125.00	79.11	179.59	10,925.41	-284.68	246.98	298.12	12.00	12.00	0.00	
11,150.00	82.11	179.59	10,929.49	-309.34	247.16	322.75	12.00	12.00	0.00	
11,175.00	85.11	179.59	10,932.27	-334.19	247.34	347.57	12.00	12.00	0.00	
11,200.00	88.11	179.59	10,933.75	-359.14	247.51	372.49	12.00	12.00	0.00	
11,218.12	90.29	179.59	10,934.00	-377.25	247.64	390.58	12.00	12.00	0.00	
11,300.00	90.29	179.59	10,933.59	-459.13	248.23	472.36	0.00	0.00	0.00	
11,400.00	90.29	179.59	10,933.09	-559.13	248.94	572.24	0.00	0.00	0.00	
11,500.00	90.29	179.59	10,932.59	-659.12	249.65	672.12	0.00	0.00	0.00	
11,600.00	90.29	179.59	10,932.09	-759.12	250.36	772.00	0.00	0.00	0.00	
11,700.00	90.29	179.59	10,931.59	-859.12	251.07	871.88	0.00	0.00	0.00	
11,800.00	90.29	179.59	10,931.09	-959.11	251.78	971.75	0.00	0.00	0.00	
11,900.00	90.29	179.59	10,930.59	-1,059.11	252.49	1,071.63	0.00	0.00	0.00	
12,000.00	90.29	179.59	10,930.09	-1,159.11	253.21	1,171.51	0.00	0.00	0.00	
12,100.00	90.29	179.59	10,929.59	-1,259.10	253.92	1,271.39	0.00	0.00	0.00	
12,200.00	90.29	179.59	10,929.09	-1,359.10	254.63	1,371.27	0.00	0.00	0.00	
12,300.00	90.29	179.59	10,928.59	-1,459.09	255.34	1,471.14	0.00	0.00	0.00	
12,400.00	90.29	179.59	10,928.09	-1,559.09	256.05	1,571.02	0.00	0.00	0.00	
12,500.00	90.29	179.59	10,927.59	-1,659.09	256.76	1,670.90	0.00	0.00	0.00	
12,600.00	90.29	179.59	10,927.09	-1,759.08	257.47	1,770.78	0.00	0.00	0.00	
12,700.00	90.29	179.59	10,926.59	-1,859.08	258.18	1,870.66	0.00	0.00	0.00	
12,800.00	90.29	179.59	10,926.09	-1,959.08	258.90	1,970.53	0.00	0.00	0.00	
12,900.00	90.29	179.59	10,925.59	-2,059.07	259.61	2,070.41	0.00	0.00	0.00	
13,000.00	90.29	179.59	10,925.09	-2,159.07	260.32	2,170.29	0.00	0.00	0.00	
13,100.00	90.29	179.59	10,924.59	-2,259.06	261.03	2,270.17	0.00	0.00	0.00	
13,200.00	90.29	179.59	10,924.09	-2,359.06	261.74	2,370.05	0.00	0.00	0.00	
13,300.00	90.29	179.59	10,923.59	-2,459.06	262.45	2,469.92	0.00	0.00	0.00	
13,400.00	90.29	179.59	10,923.09	-2,559.05	263.16	2,569.80	0.00	0.00	0.00	
13,500.00	90.29	179.59	10,922.59	-2,659.05	263.88	2,669.68	0.00	0.00	0.00	

Planning Report

Database:	TPDNEW_EDM	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Company:	READ & STEVENS, INC	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Project:	Lea County, NM (NAD83) NMEZ Grid	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site:	North Lea 10 Federal 1H	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

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)	
13,600.00	90.29	179.59	10,922.09	-2,759.04	264.59	2,769.56	0.00	0.00	0.00	
13,700.00	90.29	179.59	10,921.59	-2,859.04	265.30	2,869.44	0.00	0.00	0.00	
13,800.00	90.29	179.59	10,921.09	-2,959.04	266.01	2,969.31	0.00	0.00	0.00	
13,900.00	90.29	179.59	10,920.59	-3,059.03	266.72	3,069.19	0.00	0.00	0.00	
14,000.00	90.29	179.59	10,920.09	-3,159.03	267.43	3,169.07	0.00	0.00	0.00	
14,100.00	90.29	179.59	10,919.59	-3,259.03	268.14	3,268.95	0.00	0.00	0.00	
14,200.00	90.29	179.59	10,919.09	-3,359.02	268.85	3,368.83	0.00	0.00	0.00	
14,300.00	90.29	179.59	10,918.59	-3,459.02	269.57	3,468.70	0.00	0.00	0.00	
14,400.00	90.29	179.59	10,918.09	-3,559.01	270.28	3,568.58	0.00	0.00	0.00	
14,500.00	90.29	179.59	10,917.59	-3,659.01	270.99	3,668.46	0.00	0.00	0.00	
14,600.00	90.29	179.59	10,917.09	-3,759.01	271.70	3,768.34	0.00	0.00	0.00	
14,700.00	90.29	179.59	10,916.59	-3,859.00	272.41	3,868.22	0.00	0.00	0.00	
14,800.00	90.29	179.59	10,916.09	-3,959.00	273.12	3,968.09	0.00	0.00	0.00	
14,900.00	90.29	179.59	10,915.59	-4,059.00	273.83	4,067.97	0.00	0.00	0.00	
15,000.00	90.29	179.59	10,915.09	-4,158.99	274.55	4,167.85	0.00	0.00	0.00	
15,100.00	90.29	179.59	10,914.59	-4,258.99	275.26	4,267.73	0.00	0.00	0.00	
15,200.00	90.29	179.59	10,914.09	-4,358.98	275.97	4,367.61	0.00	0.00	0.00	
15,300.00	90.29	179.59	10,913.59	-4,458.98	276.68	4,467.48	0.00	0.00	0.00	
15,400.00	90.29	179.59	10,913.09	-4,558.98	277.39	4,567.36	0.00	0.00	0.00	
15,500.00	90.29	179.59	10,912.59	-4,658.97	278.10	4,667.24	0.00	0.00	0.00	
15,600.00	90.29	179.59	10,912.09	-4,758.97	278.81	4,767.12	0.00	0.00	0.00	
15,700.00	90.29	179.59	10,911.59	-4,858.97	279.53	4,867.00	0.00	0.00	0.00	
15,800.00	90.29	179.59	10,911.09	-4,958.96	280.24	4,966.87	0.00	0.00	0.00	
15,818.75	90.29	179.59	10,911.00	-4,977.71	280.37	4,985.60	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	
NL10 Fed 1H_SHL - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	580,870.07	785,247.84	32.59436838°N	103.54135453°W	
NL10 Fed 1H_FTP_100I - plan misses target center by 264.90usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	102.58	244.23	580,972.66	785,492.07	32.59464534°N	103.54055910°W	
NL10 Fed 1H_LTP/PBHI - plan hits target center - Point	0.00	0.01	10,911.00	-4,977.71	280.37	575,892.36	785,528.21	32.58068149°N	103.54056469°W	
NL10 Fed 1H_LP_580FI - plan misses target center by 0.05usft at 11218.27usft MD (10934.00 TVD, -377.40 N, 247.64 E) - Point	0.00	0.00	10,934.00	-377.40	247.70	580,492.67	785,495.54	32.59332603°N	103.54055945°W	
NL10 Fed 1H_LP - plan hits target center - Point	0.00	0.00	10,934.00	-377.25	247.64	580,492.82	785,495.48	32.59332645°N	103.54055964°W	

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 50.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 300.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	01/14/20		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,818.21	Plan #2 (Lateral)	MWD	OWSG MWD - Standard

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						
North Lea 10 Federal 1H						
1H - Lateral - Plan #1	10,650.00	10,653.96	0.00	-38.12	0.000	Level 1, CC, ES, SF
NLF 10 (Offset) - Oh Offset - Oh Offset IncOnly	5,574.97	5,563.74	533.25	425.52	4.950	CC
NLF 10 (Offset) - Oh Offset - Oh Offset IncOnly	5,650.00	5,638.50	533.97	425.01	4.901	ES
NLF 10 (Offset) - Oh Offset - Oh Offset IncOnly	6,500.00	6,482.91	577.86	455.73	4.731	SF
NLF 11 (Offset) - OH Offset - OH Offset IncOnly						Out of range
NLF 1Y (Offset) - OH Offset - OH Offset IncOnly	13,900.00	10,899.60	347.87	134.37	1.629	ES, SF
NLF 1Y (Offset) - OH Offset - OH Offset IncOnly	13,901.93	10,899.54	347.87	134.41	1.630	CC
NLF 3 (Offset) - Oh Offset - Oh Offset IncOnly	12,000.00	10,912.47	658.30	460.32	3.325	SF
NLF 3 (Offset) - Oh Offset - Oh Offset IncOnly	12,034.64	10,910.97	657.39	460.23	3.334	CC, ES
NLF 9 (Offset) - OH Offset - OH Offset IncOnly						Out of range

Offset Design	North Lea 10 Federal 1H - 1H - Lateral - Plan #1												Offset Site Error:	0.00 usft
Survey Program:	0-												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,755.34	5,755.15	5,755.34	5,755.14	21.42	0.00	0.000	3.30	7.87	0.00	-21.28	21.29	0.000	Level 1	
5,800.00	5,799.70	5,800.00	5,799.69	21.57	0.00	0.000	4.56	10.86	0.11	-21.33	21.43	0.005	Level 1	
5,850.00	5,849.57	5,849.99	5,849.50	21.74	0.00	0.000	6.21	14.77	0.80	-20.77	21.58	0.037	Level 1	
5,900.00	5,899.45	5,899.95	5,899.22	21.91	0.00	0.000	8.10	19.29	2.16	-19.56	21.72	0.099	Level 1	
5,950.00	5,949.32	5,949.92	5,948.92	22.07	0.00	0.000	10.12	24.10	3.84	-18.05	21.89	0.175	Level 1	
6,000.00	5,999.19	5,999.90	5,998.62	22.24	0.00	0.000	12.15	28.92	5.52	-16.55	22.06	0.250	Level 1	
6,050.00	6,049.07	6,049.87	6,048.32	22.41	0.00	0.000	14.17	33.74	7.20	-15.04	22.23	0.324	Level 1	
6,100.00	6,098.94	6,098.84	6,098.01	22.58	0.00	0.000	16.19	38.55	8.88	-13.53	22.41	0.396	Level 1	
6,150.00	6,148.82	6,149.81	6,147.71	22.75	0.00	0.000	18.22	43.37	10.56	-12.02	22.58	0.468	Level 1	
6,200.00	6,198.69	6,199.78	6,197.41	22.92	0.00	0.000	20.24	48.18	12.24	-10.51	22.75	0.538	Level 1	
6,250.00	6,248.56	6,249.75	6,247.11	23.08	0.00	0.000	22.26	53.00	13.92	-9.00	22.92	0.607	Level 1	
6,300.00	6,298.44	6,299.73	6,296.81	23.25	0.00	0.000	24.28	57.81	15.60	-7.49	23.09	0.676	Level 1	
6,350.00	6,348.31	6,349.70	6,346.50	23.42	0.00	0.000	26.31	62.63	17.28	-5.98	23.26	0.743	Level 1	
6,400.00	6,398.18	6,399.67	6,396.20	23.59	0.00	0.000	28.33	67.45	18.96	-4.48	23.44	0.809	Level 1	
6,450.00	6,448.06	6,449.64	6,445.90	23.76	0.00	0.000	30.35	72.26	20.64	-2.97	23.61	0.874	Level 1	
6,500.00	6,497.93	6,499.61	6,495.60	23.93	0.00	0.000	32.38	77.08	22.32	-1.46	23.78	0.939	Level 1	
6,550.00	6,547.80	6,549.58	6,545.30	24.10	0.00	0.000	34.40	81.89	24.00	0.05	23.95	1.002	Level 2	

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

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design North Lea 10 Federal 1H - 1H - Lateral - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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		
6,600.00	6,597.68	6,599.56	6,594.99	24.27	0.00	0.000	36.42	86.71	25.68	1.56	24.13	1.064	Level 2	
6,650.00	6,647.55	6,649.53	6,644.69	24.44	0.00	0.000	38.44	91.53	27.36	3.06	24.30	1.126	Level 2	
6,700.00	6,697.43	6,699.50	6,694.39	24.61	0.00	0.000	40.47	96.34	29.04	4.57	24.47	1.187	Level 2	
6,750.00	6,747.30	6,749.47	6,744.09	24.79	0.00	0.000	42.49	101.16	30.72	6.08	24.64	1.247	Level 2	
6,800.00	6,797.17	6,799.44	6,793.79	24.96	0.00	0.000	44.51	105.97	32.40	7.59	24.82	1.306	Level 3	
6,850.00	6,847.05	6,849.42	6,843.48	25.13	0.00	0.000	46.54	110.79	34.08	9.09	24.99	1.364	Level 3	
6,900.00	6,896.92	6,899.39	6,893.18	25.30	0.00	0.000	48.56	115.61	35.76	10.60	25.16	1.421	Level 3	
6,950.00	6,946.79	6,949.36	6,942.88	25.47	0.00	0.000	50.58	120.42	37.44	12.11	25.34	1.478	Level 3	
7,000.00	6,996.67	6,999.33	6,992.58	25.64	0.00	0.000	52.60	125.24	39.12	13.61	25.51	1.534		
7,050.00	7,046.54	7,049.30	7,042.28	25.81	0.00	0.000	54.63	130.05	40.80	15.12	25.68	1.589		
7,100.00	7,096.41	7,099.27	7,091.97	25.99	0.00	0.000	56.65	134.87	42.48	16.63	25.86	1.643		
7,150.00	7,146.29	7,149.25	7,141.67	26.16	0.00	0.000	58.67	139.68	44.17	18.13	26.03	1.697		
7,200.00	7,196.16	7,199.22	7,191.37	26.33	0.00	0.000	60.70	144.50	45.85	19.64	26.21	1.749		
7,250.00	7,246.04	7,249.19	7,241.07	26.50	0.00	0.000	62.72	149.32	47.53	21.15	26.38	1.802		
7,300.00	7,295.91	7,299.16	7,290.77	26.67	0.00	0.000	64.74	154.13	49.21	22.65	26.55	1.853		
7,350.00	7,345.78	7,349.13	7,340.46	26.85	0.00	0.000	66.76	158.95	50.89	24.16	26.73	1.904		
7,400.00	7,395.66	7,399.10	7,390.16	27.02	0.00	0.000	68.79	163.76	52.57	25.66	26.90	1.954		
7,450.00	7,445.53	7,449.08	7,439.86	27.19	0.00	0.000	70.81	168.58	54.25	27.17	27.08	2.003		
7,500.00	7,495.40	7,499.05	7,489.56	27.37	0.00	0.000	72.83	173.40	55.93	28.68	27.25	2.052		
7,550.00	7,545.28	7,549.02	7,539.26	27.54	0.00	0.000	74.85	178.21	57.61	30.18	27.43	2.101		
7,600.00	7,595.15	7,598.99	7,588.95	27.71	0.00	0.000	76.88	183.03	59.29	31.69	27.60	2.148		
7,650.00	7,645.02	7,648.96	7,638.65	27.89	0.00	0.000	78.90	187.84	60.97	33.19	27.77	2.195		
7,700.00	7,694.90	7,698.94	7,688.35	28.06	0.00	0.000	80.92	192.66	62.65	34.70	27.95	2.241		
7,750.00	7,744.77	7,748.91	7,738.05	28.23	0.00	0.000	82.95	197.48	64.33	36.20	28.12	2.287		
7,800.00	7,794.65	7,798.88	7,787.75	28.41	0.00	0.000	84.97	202.29	66.01	37.71	28.30	2.333		
7,850.00	7,844.52	7,848.85	7,837.44	28.58	0.00	0.000	86.99	207.11	67.69	39.22	28.47	2.377		
7,900.00	7,894.39	7,898.82	7,887.14	28.75	0.00	0.000	89.01	211.92	69.37	40.72	28.65	2.421		
7,950.00	7,944.27	7,948.79	7,936.84	28.93	0.00	0.000	91.04	216.74	71.05	42.23	28.82	2.465		
8,000.00	7,994.14	7,998.77	7,986.54	29.10	0.00	0.000	93.06	221.55	72.73	43.73	29.00	2.508		
8,050.00	8,044.01	8,049.03	8,036.53	29.28	0.00	0.000	95.08	226.37	74.38	45.20	29.18	2.549		
8,100.00	8,093.89	8,100.02	8,087.29	29.45	0.00	0.000	96.94	230.79	75.53	46.15	29.38	2.571		
8,150.00	8,143.76	8,151.03	8,138.14	29.62	0.00	0.000	98.53	234.58	76.01	46.43	29.58	2.570		
8,200.00	8,193.63	8,202.04	8,189.04	29.80	0.00	0.000	99.86	237.75	75.82	46.06	29.77	2.547		
8,250.00	8,243.51	8,253.04	8,239.96	29.97	0.00	0.000	100.93	240.28	74.97	45.02	29.95	2.503		
8,300.00	8,293.38	8,304.01	8,290.89	30.15	0.00	0.000	101.73	242.19	73.45	43.31	30.13	2.437		
8,350.00	8,343.26	8,354.93	8,341.78	30.32	0.00	0.000	102.27	243.48	71.26	40.95	30.31	2.351		
8,400.00	8,393.13	8,405.78	8,392.63	30.50	0.00	0.000	102.54	244.13	68.41	37.92	30.49	2.244		
8,450.00	8,443.00	8,456.15	8,443.00	30.67	0.00	0.000	102.58	244.23	64.96	34.30	30.66	2.119		
8,500.00	8,492.88	8,506.03	8,492.88	30.85	0.00	0.000	102.58	244.23	61.40	30.57	30.83	1.991		
8,550.00	8,542.75	8,555.90	8,542.75	31.02	0.00	0.000	102.58	244.23	57.85	26.84	31.01	1.866		
8,600.00	8,592.62	8,605.77	8,592.62	31.20	0.00	0.000	102.58	244.23	54.30	23.11	31.19	1.741		
8,650.00	8,642.50	8,655.65	8,642.50	31.37	0.00	0.000	102.58	244.23	50.75	19.38	31.36	1.618		
8,700.00	8,692.37	8,705.52	8,692.37	31.55	0.00	0.000	102.58	244.23	47.19	15.66	31.54	1.496	Level 3	
8,750.00	8,742.24	8,755.40	8,742.24	31.72	0.00	0.000	102.58	244.23	43.64	11.93	31.71	1.376	Level 3	
8,800.00	8,792.12	8,805.27	8,792.12	31.90	0.00	0.000	102.58	244.23	40.09	8.20	31.89	1.257	Level 3	
8,850.00	8,841.99	8,855.14	8,841.99	32.07	0.00	0.000	102.58	244.23	36.54	4.47	32.07	1.139	Level 2	
8,900.00	8,891.87	8,905.02	8,891.87	32.25	0.00	0.000	102.58	244.23	32.98	0.74	32.24	1.023	Level 2	
8,950.00	8,941.74	8,954.89	8,941.74	32.42	0.00	0.000	102.58	244.23	29.43	-2.99	32.42	0.908	Level 1	
9,000.00	8,991.61	9,004.76	8,991.61	32.60	0.00	0.000	102.58	244.23	25.88	-6.71	32.59	0.794	Level 1	
9,050.00	9,041.49	9,054.64	9,041.49	32.78	0.00	0.000	102.58	244.23	22.33	-10.44	32.77	0.681	Level 1	
9,100.00	9,091.36	9,104.51	9,091.36	32.95	0.00	0.000	102.58	244.23	18.77	-14.17	32.95	0.570	Level 1	
9,150.00	9,141.23	9,154.38	9,141.23	33.13	0.00	0.000	102.58	244.23	15.22	-17.90	33.12	0.460	Level 1	

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

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design North Lea 10 Federal 1H - 1H - Lateral - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							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		
9,200.00	9,191.11	9,204.26	9,191.11	33.30	0.00	0.000	102.58	244.23	11.67	-21.63	33.30	0.350	Level 1	
9,250.00	9,240.99	9,254.14	9,240.99	33.48	0.00	0.000	102.58	244.23	8.18	-25.30	33.47	0.244	Level 1	
9,300.00	9,290.90	9,304.05	9,290.90	33.65	0.00	0.000	102.58	244.23	5.23	-28.42	33.65	0.156	Level 1	
9,350.00	9,340.85	9,354.00	9,340.85	33.84	0.00	0.000	102.58	244.23	2.94	-30.90	33.84	0.087	Level 1	
9,400.00	9,390.82	9,403.97	9,390.82	34.03	0.00	0.000	102.58	244.23	1.31	-32.72	34.03	0.038	Level 1	
9,450.00	9,440.81	9,453.96	9,440.81	34.22	0.00	0.000	102.58	244.23	0.33	-33.89	34.22	0.010	Level 1	
9,500.00	9,490.81	9,503.96	9,490.81	34.41	0.00	67.216	102.58	244.23	0.00	-34.41	34.41	0.000	Level 1	
9,550.00	9,540.81	9,553.96	9,540.81	34.59	0.00	67.216	102.58	244.23	0.00	-34.59	34.59	0.000	Level 1	
9,600.00	9,590.81	9,603.96	9,590.81	34.78	0.00	67.216	102.58	244.23	0.00	-34.77	34.77	0.000	Level 1	
9,650.00	9,640.81	9,653.96	9,640.81	34.96	0.00	67.216	102.58	244.23	0.00	-34.95	34.95	0.000	Level 1	
9,700.00	9,690.81	9,703.96	9,690.81	35.13	0.00	67.216	102.58	244.23	0.00	-35.13	35.13	0.000	Level 1	
9,750.00	9,740.81	9,753.96	9,740.81	35.31	0.00	67.216	102.58	244.23	0.00	-35.31	35.31	0.000	Level 1	
9,800.00	9,790.81	9,803.96	9,790.81	35.49	0.00	67.216	102.58	244.23	0.00	-35.48	35.48	0.000	Level 1	
9,850.00	9,840.81	9,853.96	9,840.81	35.67	0.00	67.216	102.58	244.23	0.00	-35.66	35.66	0.000	Level 1	
9,900.00	9,890.81	9,903.96	9,890.81	35.85	0.00	67.216	102.58	244.23	0.00	-35.84	35.84	0.000	Level 1	
9,950.00	9,940.81	9,953.96	9,940.81	36.03	0.00	67.216	102.58	244.23	0.00	-36.02	36.02	0.000	Level 1	
10,000.00	9,990.81	10,003.96	9,990.81	36.21	0.00	67.216	102.58	244.23	0.00	-36.20	36.20	0.000	Level 1	
10,050.00	10,040.81	10,053.96	10,040.81	36.39	0.00	67.216	102.58	244.23	0.00	-36.38	36.38	0.000	Level 1	
10,100.00	10,090.81	10,103.96	10,090.81	36.56	0.00	67.216	102.58	244.23	0.00	-36.55	36.55	0.000	Level 1	
10,150.00	10,140.81	10,153.96	10,140.81	36.74	0.00	67.216	102.58	244.23	0.00	-36.73	36.73	0.000	Level 1	
10,200.00	10,190.81	10,203.96	10,190.81	36.92	0.00	67.216	102.58	244.23	0.00	-36.91	36.91	0.000	Level 1	
10,250.00	10,240.81	10,253.96	10,240.81	37.10	0.00	67.216	102.58	244.23	0.00	-37.09	37.09	0.000	Level 1	
10,300.00	10,290.81	10,303.96	10,290.81	37.28	0.00	67.216	102.58	244.23	0.00	-37.27	37.27	0.000	Level 1	
10,350.00	10,340.81	10,353.96	10,340.81	37.46	0.00	67.216	102.58	244.23	0.00	-37.44	37.44	0.000	Level 1	
10,400.00	10,390.81	10,403.96	10,390.81	37.64	0.00	67.216	102.58	244.23	0.00	-37.62	37.62	0.000	Level 1	
10,450.00	10,440.81	10,453.96	10,440.81	37.81	0.00	67.216	102.58	244.23	0.00	-37.80	37.80	0.000	Level 1	
10,500.00	10,490.78	10,503.96	10,490.78	37.98	0.00	-112.120	101.36	244.24	0.00	-37.94	37.94	0.000	Level 1	
10,519.15	10,509.84	10,523.11	10,509.84	38.04	0.00	-111.936	99.60	244.25	0.00	-37.98	37.98	0.000	Level 1	
10,550.00	10,540.37	10,553.96	10,540.37	38.15	0.00	-111.576	95.17	244.28	0.00	-38.03	38.03	0.000	Level 1	
10,600.00	10,589.04	10,603.96	10,589.04	38.31	0.00	-110.829	83.83	244.36	0.00	-38.09	38.09	0.000	Level 1	
10,609.43	10,598.08	10,613.39	10,598.08	38.34	0.00	-110.665	81.12	244.38	0.00	-38.09	38.09	0.000	Level 1	
10,650.00	10,636.27	10,653.96	10,636.27	38.47	0.00	-109.878	67.47	244.48	0.00	-38.12	38.12	0.000	Level 1, CC, ES, SF	

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

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design North Lea 10 Federal 1H - NLF 10 (Offset) - Oh Offset - Oh Offset IncOnly													Offset Site Error:	0.00 usft
Survey Program: 484-DIPMETER													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								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	0.00	0.00	-138.466	-464.52	-411.47	620.98					
50.00	50.00	27.23	27.23	0.12	0.59	-138.465	-464.51	-411.47	620.55	619.84	0.70	882.776		
100.00	100.00	77.65	77.65	0.31	1.68	-138.462	-464.47	-411.47	620.51	618.53	1.98	312.896		
150.00	150.00	128.07	128.07	0.63	2.77	-138.457	-464.37	-411.47	620.44	617.05	3.39	182.780		
200.00	200.00	178.49	178.49	0.95	3.86	-138.448	-464.23	-411.47	620.34	615.53	4.81	129.077		
250.00	250.00	228.92	228.92	1.21	4.95	-138.437	-464.05	-411.47	620.20	614.06	6.14	100.929		
300.00	300.00	279.34	279.34	1.46	6.04	-138.423	-463.82	-411.47	620.03	612.55	7.48	82.843		
350.00	350.00	329.76	329.76	1.68	7.13	-138.406	-463.54	-411.47	619.82	611.03	8.79	70.504		
400.00	400.00	380.18	380.18	1.89	8.22	-138.386	-463.22	-411.47	619.58	609.49	10.10	61.352		
450.00	450.00	430.60	430.59	2.10	9.31	-138.363	-462.85	-411.47	619.31	607.92	11.39	54.362		
500.00	500.00	481.02	481.01	2.31	10.40	-138.338	-462.43	-411.47	619.00	606.32	12.69	48.793		
550.00	550.00	531.04	531.03	2.50	11.56	-138.311	-462.00	-411.47	618.68	604.63	14.04	44.053		
600.00	600.00	581.04	581.03	2.70	12.73	-138.284	-461.56	-411.47	618.35	602.95	15.41	40.134		
650.00	650.00	631.04	631.02	2.89	13.89	-138.257	-461.13	-411.47	618.03	601.26	16.77	36.861		
700.00	700.00	681.03	681.02	3.09	15.06	-138.230	-460.69	-411.47	617.70	599.58	18.13	34.078		
750.00	750.00	731.03	731.02	3.28	16.23	-138.203	-460.25	-411.47	617.38	597.89	19.48	31.687		
800.00	800.00	781.03	781.01	3.47	17.40	-138.176	-459.82	-411.47	617.05	596.21	20.84	29.607		
850.00	850.00	831.03	831.01	3.66	18.57	-138.149	-459.38	-411.47	616.73	594.53	22.20	27.784		
900.00	900.00	881.03	881.01	3.85	19.69	-138.122	-458.94	-411.47	616.40	592.90	23.51	26.224		
950.00	950.00	931.02	931.00	4.03	20.06	-138.095	-458.51	-411.47	616.08	592.01	24.07	25.595		
1,000.00	1,000.00	981.02	981.00	4.22	20.44	-138.068	-458.07	-411.47	615.75	591.11	24.64	24.991		
1,050.00	1,050.00	1,031.02	1,030.99	4.40	20.91	-138.041	-457.63	-411.47	615.43	590.13	25.29	24.330		
1,100.00	1,100.00	1,081.02	1,080.99	4.59	21.45	-138.014	-457.20	-411.47	615.10	589.09	26.02	23.643		
1,150.00	1,150.00	1,131.02	1,130.99	4.77	21.99	-137.986	-456.76	-411.47	614.78	588.04	26.74	22.992		
1,200.00	1,200.00	1,181.02	1,180.98	4.96	22.53	-137.959	-456.33	-411.47	614.45	586.99	27.46	22.373		
1,250.00	1,250.00	1,231.01	1,230.98	5.14	23.07	-137.932	-455.89	-411.47	614.13	585.94	28.19	21.785		
1,300.00	1,300.00	1,281.01	1,280.97	5.33	23.61	-137.905	-455.45	-411.47	613.81	584.89	28.92	21.226		
1,350.00	1,350.00	1,331.01	1,330.97	5.51	24.16	-137.877	-455.02	-411.47	613.48	583.84	29.65	20.693		
1,400.00	1,400.00	1,381.51	1,381.47	5.69	24.70	-137.849	-454.57	-411.47	613.15	582.78	30.37	20.187		
1,450.00	1,450.00	1,433.18	1,433.13	5.88	25.23	-137.811	-453.96	-411.47	612.72	581.63	31.09	19.708		
1,500.00	1,500.00	1,484.84	1,484.79	6.06	25.77	-137.761	-453.17	-411.47	612.15	580.34	31.81	19.245		
1,550.00	1,550.00	1,536.49	1,536.43	6.24	26.31	-137.700	-452.19	-411.47	611.45	578.92	32.53	18.798		
1,600.00	1,600.00	1,586.76	1,586.69	6.42	26.99	-137.631	-451.11	-411.47	610.65	577.26	33.39	18.286		
1,650.00	1,650.00	1,636.53	1,636.45	6.61	27.73	-137.564	-450.05	-411.47	609.87	575.55	34.31	17.773		
1,700.00	1,700.00	1,686.31	1,686.22	6.79	28.46	-137.499	-449.02	-411.47	609.10	573.87	35.23	17.288		
1,750.00	1,750.00	1,736.09	1,735.98	6.97	29.20	-137.434	-448.01	-411.47	608.36	572.20	36.15	16.827		
1,800.00	1,800.00	1,785.86	1,785.75	7.15	29.94	-137.371	-447.02	-411.47	607.63	570.55	37.07	16.390		
1,850.00	1,850.00	1,835.64	1,835.52	7.33	30.68	-137.310	-446.06	-411.47	606.91	568.92	37.99	15.974		
1,900.00	1,900.00	1,885.42	1,885.29	7.51	31.42	-137.250	-445.12	-411.47	606.22	567.31	38.91	15.578		
1,950.00	1,950.00	1,935.20	1,935.07	7.69	32.15	-137.191	-444.20	-411.47	605.55	565.71	39.84	15.201		
2,000.00	2,000.00	1,984.99	1,984.84	7.88	32.89	-137.134	-443.31	-411.47	604.89	564.13	40.76	14.842		
2,050.00	2,050.00	2,034.98	2,034.82	8.06	33.77	-137.077	-442.43	-411.47	604.25	562.43	41.82	14.449		
2,100.00	2,100.00	2,085.16	2,085.00	8.24	34.78	-137.019	-441.54	-411.47	603.59	560.58	43.01	14.034		
2,150.00	2,150.00	2,135.35	2,135.18	8.42	35.79	-136.959	-440.62	-411.47	602.92	558.72	44.20	13.640		
2,200.00	2,200.00	2,185.53	2,185.35	8.60	36.80	-136.898	-439.67	-411.47	602.24	556.84	45.39	13.267		
2,250.00	2,250.00	2,235.72	2,235.53	8.78	37.82	-136.835	-438.71	-411.47	601.53	554.95	46.59	12.912		
2,300.00	2,300.00	2,285.90	2,285.70	8.96	38.83	-136.771	-437.72	-411.47	600.82	553.04	47.78	12.575		
2,350.00	2,350.00	2,336.08	2,335.87	9.14	39.84	-136.705	-436.71	-411.47	600.09	551.12	48.97	12.254		
2,400.00	2,400.00	2,386.26	2,386.04	9.32	40.85	-136.637	-435.68	-411.47	599.34	549.18	50.16	11.948		
2,450.00	2,450.00	2,436.44	2,436.21	9.50	41.86	-136.568	-434.63	-411.47	598.58	547.23	51.35	11.656		
2,500.00	2,500.00	2,486.62	2,486.38	9.68	42.87	-136.498	-433.56	-411.47	597.80	545.26	52.54	11.377		
2,550.00	2,550.00	2,536.91	2,536.66	9.87	43.82	-136.425	-432.46	-411.47	597.01	543.33	53.67	11.123		

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

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design North Lea 10 Federal 1H - NLF 10 (Offset) - Oh Offset - Oh Offset IncOnly													Offset Site Error:	0.00 usft
Survey Program: 484-DIPMETER													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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		
2,600.00	2,600.00	2,587.30	2,587.03	10.05	44.72	-136.349	-431.31	-411.47	596.18	541.43	54.76	10.888		
2,650.00	2,650.00	2,637.68	2,637.40	10.23	45.62	-136.269	-430.11	-411.47	595.32	539.49	55.84	10.662		
2,700.00	2,700.00	2,688.07	2,687.77	10.41	46.52	-136.187	-428.87	-411.47	594.43	537.52	56.92	10.444		
2,750.00	2,750.00	2,738.45	2,738.13	10.59	47.42	-136.100	-427.58	-411.47	593.51	535.51	58.00	10.233		
2,800.00	2,800.00	2,788.83	2,788.49	10.77	48.32	-136.011	-426.25	-411.47	592.56	533.48	59.08	10.030		
2,850.00	2,850.00	2,839.20	2,838.85	10.95	49.22	-135.918	-424.87	-411.47	591.57	531.41	60.16	9.833		
2,900.00	2,900.00	2,889.57	2,889.20	11.13	50.12	-135.822	-423.44	-411.47	590.56	529.31	61.24	9.643		
2,950.00	2,950.00	2,939.94	2,939.55	11.31	51.02	-135.722	-421.97	-411.47	589.51	527.19	62.32	9.459		
3,000.00	3,000.00	2,990.29	2,989.88	11.49	51.89	-135.618	-420.45	-411.47	588.43	525.05	63.38	9.284		
3,050.00	3,050.00	3,040.51	3,040.07	11.67	52.60	-135.513	-418.89	-411.47	587.32	523.06	64.26	9.139		
3,100.00	3,100.00	3,090.73	3,090.26	11.85	53.31	-135.404	-417.31	-411.47	586.20	521.05	65.15	8.997		
3,150.00	3,150.00	3,140.94	3,140.45	12.03	54.01	-135.294	-415.70	-411.47	585.06	519.02	66.04	8.859		
3,200.00	3,200.00	3,191.16	3,190.64	12.21	54.72	-135.180	-414.07	-411.47	583.90	516.97	66.93	8.724		
3,250.00	3,250.00	3,241.37	3,240.82	12.39	55.43	-135.065	-412.40	-411.47	582.73	514.91	67.81	8.593		
3,300.00	3,300.00	3,291.58	3,291.00	12.57	56.14	-134.947	-410.70	-411.47	581.53	512.83	68.70	8.464		
3,350.00	3,350.00	3,341.78	3,341.18	12.75	56.84	-134.826	-408.98	-411.47	580.32	510.73	69.59	8.339		
3,400.00	3,400.00	3,391.75	3,391.12	12.93	57.59	-134.704	-407.24	-411.47	579.09	508.58	70.51	8.212		
3,450.00	3,450.00	3,441.54	3,440.88	13.11	58.36	-134.583	-405.52	-411.47	577.88	506.42	71.46	8.086		
3,500.00	3,500.00	3,491.34	3,490.65	13.29	59.13	-134.463	-403.83	-411.47	576.69	504.28	72.41	7.964		
3,550.00	3,550.00	3,541.14	3,540.42	13.47	59.90	-134.345	-402.16	-411.47	575.52	502.15	73.36	7.845		
3,600.00	3,600.00	3,590.93	3,590.19	13.65	60.67	-134.227	-400.51	-411.47	574.36	500.05	74.31	7.729		
3,650.00	3,650.00	3,640.73	3,639.96	13.83	61.44	-134.110	-398.88	-411.47	573.22	497.96	75.26	7.616		
3,700.00	3,700.00	3,690.53	3,689.73	14.01	62.21	-133.995	-397.28	-411.47	572.10	495.89	76.21	7.507		
3,750.00	3,750.00	3,740.34	3,739.51	14.19	62.98	-133.880	-395.69	-411.47	570.99	493.83	77.16	7.400		
3,800.00	3,800.00	3,790.14	3,789.29	14.37	63.75	-133.767	-394.13	-411.47	569.91	491.80	78.11	7.296		
3,850.00	3,850.00	3,839.94	3,839.07	14.55	64.52	-133.655	-392.59	-411.47	568.84	489.78	79.06	7.195		
3,900.00	3,900.00	3,889.95	3,889.05	14.73	65.30	-133.543	-391.05	-411.47	567.78	487.76	80.02	7.096		
3,950.00	3,950.00	3,940.10	3,939.18	14.91	66.09	-133.429	-389.50	-411.47	566.71	485.73	80.99	6.998		
4,000.00	4,000.00	3,990.26	3,989.32	15.09	66.87	-133.313	-387.92	-411.47	565.63	483.68	81.95	6.902		
4,050.00	4,050.00	4,040.42	4,039.44	15.27	67.66	-133.194	-386.32	-411.47	564.53	481.61	82.92	6.808		
4,100.00	4,100.00	4,090.57	4,089.57	15.45	68.45	-133.074	-384.69	-411.47	563.43	479.54	83.89	6.716		
4,150.00	4,150.00	4,140.72	4,139.70	15.63	69.24	-132.951	-383.04	-411.47	562.30	477.45	84.85	6.627		
4,200.00	4,200.00	4,190.87	4,189.82	15.81	70.03	-132.826	-381.37	-411.47	561.17	475.35	85.82	6.539		
4,250.00	4,250.00	4,241.02	4,239.94	15.99	70.82	-132.698	-379.67	-411.47	560.02	473.23	86.79	6.453		
4,300.00	4,300.00	4,291.17	4,290.06	16.17	71.61	-132.569	-377.95	-411.47	558.86	471.10	87.75	6.369		
4,350.00	4,350.00	4,341.22	4,340.08	16.34	72.36	-132.437	-376.21	-411.47	557.68	469.00	88.68	6.289		
4,400.00	4,400.00	4,390.93	4,389.76	16.52	72.98	-132.307	-374.50	-411.47	556.52	467.05	89.47	6.220		
4,450.00	4,450.00	4,440.64	4,439.44	16.70	73.59	-132.179	-372.82	-411.47	555.39	465.12	90.27	6.153		
4,500.00	4,500.00	4,490.35	4,489.13	16.88	74.21	-132.054	-371.18	-411.47	554.28	463.22	91.06	6.087		
4,550.00	4,550.00	4,540.07	4,538.81	17.06	74.82	-131.930	-369.58	-411.47	553.20	461.35	91.85	6.023		
4,600.00	4,600.00	4,589.78	4,588.50	17.24	75.44	-131.809	-368.01	-411.47	552.15	459.50	92.65	5.960		
4,650.00	4,650.00	4,640.00	4,638.70	17.42	76.07	-131.689	-366.46	-411.47	551.12	457.67	93.45	5.898		
4,700.00	4,700.00	4,689.71	4,688.39	17.60	76.66	-131.569	-364.92	-411.47	550.09	455.88	94.22	5.839		
4,750.00	4,750.00	4,739.92	4,738.57	17.78	77.26	-131.446	-363.34	-411.47	549.05	454.06	94.99	5.780		
4,800.00	4,800.00	4,790.13	4,788.76	17.96	77.86	-131.319	-361.72	-411.47	547.99	452.22	95.77	5.722		
4,850.00	4,850.00	4,840.34	4,838.94	18.14	78.46	-131.189	-360.08	-411.47	546.90	450.36	96.54	5.665		
4,900.00	4,900.00	4,890.55	4,889.12	18.32	79.06	-131.057	-358.40	-411.47	545.80	448.48	97.32	5.608		
4,950.00	4,950.00	4,940.76	4,939.30	18.50	79.66	-130.921	-356.68	-411.47	544.68	446.59	98.10	5.553		
5,000.00	5,000.00	4,990.73	4,989.24	18.68	80.26	-130.782	-354.95	-411.47	543.55	444.68	98.87	5.498		
5,050.00	5,050.00	5,040.23	5,038.71	18.86	80.86	-130.649	-353.28	-411.47	542.44	442.80	99.64	5.444		
5,100.00	5,100.00	5,089.73	5,088.19	19.04	81.45	-130.520	-351.67	-411.47	541.39	440.97	100.42	5.391		
5,150.00	5,150.00	5,139.24	5,137.67	19.22	82.05	-130.395	-350.13	-411.47	540.38	439.19	101.19	5.340		

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

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design North Lea 10 Federal 1H - NLF 10 (Offset) - Oh Offset - Oh Offset IncOnly													Offset Site Error:	0.00 usft
Survey Program: 484-DIPMETER													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						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		
5,200.00	5,200.00	5,188.75	5,187.16	19.40	82.65	-130.276	-348.65	-411.47	539.41	437.45	101.97	5.290		
5,250.00	5,250.00	5,238.26	5,236.65	19.58	83.25	-130.162	-347.24	-411.47	538.49	435.75	102.74	5.241		
5,300.00	5,300.00	5,287.78	5,286.15	19.76	83.85	-130.052	-345.90	-411.47	537.62	434.10	103.52	5.194		
5,350.00	5,350.00	5,338.03	5,336.38	19.94	84.42	-129.943	-344.56	-411.47	536.77	432.50	104.26	5.148		
5,400.00	5,400.00	5,388.45	5,386.79	20.12	84.98	-129.828	-343.16	-411.47	535.87	430.87	105.00	5.104		
5,450.00	5,450.00	5,438.88	5,437.19	20.30	85.54	-129.707	-341.69	-411.47	534.94	429.20	105.73	5.059		
5,500.00	5,500.00	5,489.03	5,487.32	20.48	86.14	-129.581	-340.17	-411.47	533.97	427.47	106.50	5.014		
5,550.00	5,550.00	5,538.86	5,537.12	20.66	86.78	163.340	-338.67	-411.47	533.33	426.01	107.32	4.969		
5,574.97	5,574.97	5,563.74	5,562.00	20.75	87.10	163.414	-337.93	-411.47	533.25	425.52	107.73	4.950 CC		
5,600.00	5,599.99	5,588.68	5,586.93	20.84	87.42	163.493	-337.19	-411.47	533.33	425.19	108.14	4.932		
5,650.00	5,649.96	5,638.50	5,636.72	21.03	88.05	163.660	-335.74	-411.47	533.97	425.01	108.96	4.901 ES		
5,700.00	5,699.91	5,688.29	5,686.50	21.22	88.69	163.842	-334.31	-411.47	535.27	425.49	109.78	4.876		
5,750.00	5,749.82	5,738.06	5,736.25	21.40	89.33	164.038	-332.90	-411.47	537.21	426.62	110.59	4.858		
5,800.00	5,799.70	5,787.80	5,785.97	21.57	89.97	164.250	-331.52	-411.47	539.71	428.31	111.39	4.845		
5,850.00	5,849.57	5,837.54	5,835.69	21.74	90.61	164.464	-330.16	-411.47	542.28	430.09	112.19	4.834		
5,900.00	5,899.45	5,887.28	5,885.41	21.91	91.25	164.674	-328.82	-411.47	544.87	431.89	112.98	4.823		
5,950.00	5,949.32	5,937.02	5,935.13	22.07	91.89	164.880	-327.51	-411.47	547.49	433.71	113.78	4.812		
6,000.00	5,999.19	5,986.90	5,985.00	22.24	92.46	165.084	-326.20	-411.47	550.12	435.61	114.51	4.804		
6,050.00	6,049.07	6,036.80	6,034.87	22.41	93.03	165.286	-324.89	-411.47	552.76	437.52	115.23	4.797		
6,100.00	6,098.94	6,086.52	6,084.58	22.58	93.62	165.485	-323.60	-411.47	555.41	439.43	115.98	4.789		
6,150.00	6,148.82	6,136.07	6,134.12	22.75	94.23	165.678	-322.35	-411.47	558.09	441.34	116.75	4.780		
6,200.00	6,198.69	6,185.62	6,183.65	22.92	94.84	165.865	-321.15	-411.47	560.81	443.29	117.51	4.772		
6,250.00	6,248.56	6,235.17	6,233.19	23.08	95.45	166.046	-320.01	-411.47	563.56	445.28	118.28	4.765		
6,300.00	6,298.44	6,284.72	6,282.73	23.25	96.06	166.221	-318.91	-411.47	566.35	447.30	119.05	4.757		
6,350.00	6,348.31	6,334.27	6,332.26	23.42	96.67	166.390	-317.87	-411.47	569.18	449.36	119.82	4.750		
6,400.00	6,398.18	6,383.82	6,381.80	23.59	97.28	166.553	-316.87	-411.47	572.04	451.45	120.59	4.744		
6,450.00	6,448.06	6,433.37	6,431.34	23.76	97.89	166.711	-315.93	-411.47	574.93	453.57	121.36	4.737		
6,500.00	6,497.93	6,482.91	6,480.88	23.93	98.50	166.863	-315.03	-411.47	577.86	455.73	122.13	4.731 SF		
6,550.00	6,547.80	6,488.00	6,485.97	24.10	98.56	166.879	-314.94	-411.47	582.54	460.56	121.98	4.776		
6,600.00	6,597.68	6,488.00	6,485.97	24.27	98.56	166.879	-314.94	-411.47	591.39	470.45	120.94	4.890		
6,650.00	6,647.55	6,488.00	6,485.97	24.44	98.56	166.879	-314.94	-411.47	604.27	485.10	119.17	5.070		
6,700.00	6,697.43	6,488.00	6,485.97	24.61	98.56	166.879	-314.94	-411.47	620.92	504.11	116.81	5.316		
6,750.00	6,747.30	6,488.00	6,485.97	24.79	98.56	166.879	-314.94	-411.47	641.04	527.07	113.98	5.624		
6,800.00	6,797.17	6,488.00	6,485.97	24.96	98.56	166.879	-314.94	-411.47	664.33	553.51	110.82	5.994		
6,850.00	6,847.05	6,488.00	6,485.97	25.13	98.56	166.879	-314.94	-411.47	690.46	582.98	107.48	6.424		
6,900.00	6,896.92	6,488.00	6,485.97	25.30	98.56	166.879	-314.94	-411.47	719.12	615.08	104.04	6.912		
6,950.00	6,946.79	6,488.00	6,485.97	25.47	98.56	166.879	-314.94	-411.47	750.02	649.42	100.60	7.456		
7,000.00	6,996.67	6,488.00	6,485.97	25.64	98.56	166.879	-314.94	-411.47	782.89	685.68	97.21	8.053		
7,050.00	7,046.54	6,488.00	6,485.97	25.81	98.56	166.879	-314.94	-411.47	817.51	723.58	93.93	8.703		
7,100.00	7,096.41	6,488.00	6,485.97	25.99	98.56	166.879	-314.94	-411.47	853.65	762.87	90.78	9.404		
7,150.00	7,146.29	6,488.00	6,485.97	26.16	98.56	166.879	-314.94	-411.47	891.13	803.35	87.78	10.152		
7,200.00	7,196.16	6,488.00	6,485.97	26.33	98.56	166.879	-314.94	-411.47	929.79	844.86	84.94	10.947		
7,250.00	7,246.04	6,488.00	6,485.97	26.50	98.56	166.879	-314.94	-411.47	969.49	887.23	82.26	11.786		

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

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		North Lea 10 Federal 1H - NLF 1Y (Offset) - OH Offset - OH Offset IncOnly											Offset Site Error:	0.00 usft
Survey Program:		214-DIPMETER											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							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		
13,000.00	10,925.09	10,927.16	10,925.26	53.31	154.88	94.549	-3,062.72	-81.12	966.29	770.87	195.41	4.945		
13,050.00	10,924.84	10,925.66	10,923.76	53.87	154.86	94.303	-3,062.76	-81.12	919.84	723.90	195.93	4.695		
13,100.00	10,924.59	10,924.15	10,922.25	54.44	154.84	94.056	-3,062.80	-81.12	873.78	677.26	196.52	4.446		
13,150.00	10,924.34	10,922.64	10,920.74	55.01	154.82	93.808	-3,062.84	-81.12	828.17	630.99	197.18	4.200		
13,200.00	10,924.09	10,921.12	10,919.23	55.59	154.80	93.560	-3,062.88	-81.12	783.10	585.17	197.93	3.956		
13,250.00	10,923.84	10,919.60	10,917.71	56.18	154.78	93.311	-3,062.91	-81.12	738.66	539.88	198.78	3.716		
13,300.00	10,923.59	10,918.08	10,916.19	56.77	154.76	93.061	-3,062.95	-81.12	694.97	495.22	199.75	3.479		
13,350.00	10,923.34	10,916.56	10,914.66	57.37	154.74	92.811	-3,062.99	-81.12	652.18	451.34	200.84	3.247		
13,400.00	10,923.09	10,915.03	10,913.14	57.98	154.72	92.560	-3,063.03	-81.12	610.49	408.41	202.09	3.021		
13,450.00	10,922.84	10,913.50	10,911.61	58.59	154.70	92.309	-3,063.07	-81.12	570.13	366.65	203.49	2.802		
13,500.00	10,922.59	10,911.97	10,910.08	59.20	154.68	92.057	-3,063.11	-81.12	531.41	326.37	205.05	2.592		
13,550.00	10,922.34	10,910.43	10,908.54	59.83	154.66	91.804	-3,063.15	-81.12	494.72	287.96	206.76	2.393		
13,600.00	10,922.09	10,908.89	10,907.00	60.45	154.64	91.551	-3,063.19	-81.12	460.53	251.95	208.57	2.208		
13,650.00	10,921.84	10,907.35	10,905.46	61.08	154.62	91.297	-3,063.23	-81.12	429.44	219.02	210.41	2.041		
13,700.00	10,921.59	10,905.81	10,903.92	61.71	154.60	91.043	-3,063.27	-81.12	402.18	190.04	212.14	1.896		
13,750.00	10,921.34	10,904.26	10,902.37	62.36	154.57	90.788	-3,063.31	-81.12	379.57	166.03	213.54	1.777		
13,800.00	10,921.09	10,902.71	10,900.82	63.00	154.55	90.533	-3,063.35	-81.12	362.48	148.11	214.37	1.691		
13,850.00	10,920.84	10,901.15	10,899.26	63.65	154.53	90.277	-3,063.39	-81.12	351.72	137.32	214.40	1.640		
13,900.00	10,920.59	10,899.60	10,897.71	64.30	154.51	90.021	-3,063.43	-81.12	347.87	134.37	213.50	1.629 ES, SF		
13,901.93	10,920.58	10,899.54	10,897.65	64.32	154.51	90.011	-3,063.44	-81.12	347.87	134.41	213.45	1.630 CC		
13,950.00	10,920.34	10,898.03	10,896.15	64.96	154.49	89.763	-3,063.48	-81.12	351.17	139.40	211.77	1.658		
14,000.00	10,920.09	10,896.47	10,894.58	65.62	154.47	89.505	-3,063.52	-81.12	361.41	152.00	209.42	1.726		
14,050.00	10,919.84	10,894.89	10,893.01	66.28	154.45	89.246	-3,063.56	-81.12	378.04	171.27	206.78	1.828		
14,100.00	10,919.59	10,893.31	10,891.43	66.95	154.43	88.986	-3,063.60	-81.12	400.26	196.13	204.12	1.961		
14,150.00	10,919.34	10,891.73	10,889.84	67.62	154.41	88.725	-3,063.64	-81.12	427.19	225.53	201.66	2.118		
14,200.00	10,919.09	10,890.13	10,888.25	68.30	154.39	88.463	-3,063.68	-81.12	458.01	258.54	199.47	2.296		
14,250.00	10,918.84	10,888.54	10,886.65	68.97	154.37	88.201	-3,063.73	-81.12	491.98	294.39	197.59	2.490		
14,300.00	10,918.59	10,886.93	10,885.05	69.65	154.35	87.937	-3,063.77	-81.12	528.50	332.50	196.01	2.696		
14,350.00	10,918.34	10,885.32	10,883.44	70.34	154.33	87.672	-3,063.81	-81.12	567.08	372.40	194.69	2.913		
14,400.00	10,918.09	10,883.71	10,881.83	71.03	154.31	87.407	-3,063.86	-81.12	607.32	413.74	193.59	3.137		
14,450.00	10,917.84	10,882.09	10,880.20	71.72	154.28	87.140	-3,063.90	-81.12	648.92	456.24	192.67	3.368		
14,500.00	10,917.59	10,880.46	10,878.58	72.41	154.26	86.873	-3,063.94	-81.12	691.63	499.71	191.92	3.604		
14,550.00	10,917.34	10,878.82	10,876.94	73.11	154.24	86.605	-3,063.99	-81.12	735.25	543.96	191.29	3.844		
14,600.00	10,917.09	10,877.18	10,875.30	73.81	154.22	86.336	-3,064.03	-81.12	779.63	588.87	190.76	4.087		
14,650.00	10,916.84	10,875.54	10,873.66	74.51	154.20	86.066	-3,064.08	-81.12	824.66	634.34	190.32	4.333		
14,700.00	10,916.59	10,873.88	10,872.00	75.21	154.18	85.795	-3,064.12	-81.12	870.23	680.27	189.95	4.581		
14,750.00	10,916.34	10,872.22	10,870.34	75.92	154.16	85.524	-3,064.17	-81.12	916.25	726.61	189.64	4.832		
14,800.00	10,916.09	10,870.56	10,868.68	76.63	154.13	85.251	-3,064.21	-81.12	962.67	773.30	189.37	5.083		

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

Anticollision Report

Company:	READ & STEVENS, INC	Local Co-ordinate Reference:	Well 1H - Slot NL FC 1H
Project:	Lea County, NM (NAD83) NMEZ Grid	TVD Reference:	3651+20 @ 3671.00usft (McVay)
Reference Site:	North Lea 10 Federal 1H	MD Reference:	3651+20 @ 3671.00usft (McVay)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Lateral	Database:	TPDNEW_EDM
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		North Lea 10 Federal 1H - NLF 3 (Offset) - Oh Offset - Oh Offset IncOnly										Offset Site Error:		0.00 usft
Survey Program:		302-DIPMETER										Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
11,300.00	10,933.59	10,943.02	10,939.13	40.20	162.29	92.805	-1,197.19	-403.92	985.31	783.13	202.18	4.873		
11,350.00	10,933.34	10,940.83	10,936.93	40.38	162.27	92.614	-1,197.27	-403.92	948.69	746.31	202.38	4.688		
11,400.00	10,933.09	10,938.63	10,934.74	40.55	162.24	92.423	-1,197.36	-403.92	913.33	710.78	202.55	4.509		
11,450.00	10,932.84	10,936.44	10,932.55	40.76	162.21	92.232	-1,197.44	-403.92	879.39	676.68	202.70	4.338		
11,500.00	10,932.59	10,934.25	10,930.36	40.96	162.19	92.042	-1,197.53	-403.92	847.03	644.23	202.80	4.177		
11,550.00	10,932.34	10,932.06	10,928.17	41.20	162.16	91.851	-1,197.61	-403.92	816.45	613.61	202.85	4.025		
11,600.00	10,932.09	10,929.87	10,925.99	41.44	162.13	91.661	-1,197.70	-403.92	787.86	585.05	202.81	3.885		
11,650.00	10,931.84	10,927.69	10,923.80	41.70	162.11	91.471	-1,197.78	-403.92	761.47	558.78	202.69	3.757		
11,700.00	10,931.59	10,925.51	10,921.62	41.97	162.08	91.281	-1,197.86	-403.92	737.52	535.07	202.45	3.643		
11,750.00	10,931.34	10,923.33	10,919.45	42.26	162.05	91.092	-1,197.95	-403.92	716.26	514.18	202.08	3.544		
11,800.00	10,931.09	10,921.15	10,917.27	42.56	162.03	90.902	-1,198.03	-403.92	697.94	496.37	201.56	3.463		
11,850.00	10,930.84	10,918.98	10,915.10	42.88	162.00	90.713	-1,198.12	-403.92	682.78	481.88	200.90	3.399		
11,900.00	10,930.59	10,916.80	10,912.93	43.21	161.97	90.524	-1,198.20	-403.92	671.01	470.94	200.07	3.354		
11,950.00	10,930.34	10,914.63	10,910.76	43.56	161.95	90.335	-1,198.28	-403.92	662.81	463.71	199.10	3.329		
12,000.00	10,930.09	10,912.47	10,908.60	43.91	161.92	90.146	-1,198.36	-403.92	658.30	460.32	197.98	3.325 SF		
12,034.64	10,929.92	10,910.97	10,907.10	44.17	161.90	90.016	-1,198.42	-403.92	657.39	460.23	197.16	3.334 CC, ES		
12,050.00	10,929.84	10,910.30	10,906.43	44.28	161.89	89.958	-1,198.45	-403.92	657.57	460.78	196.78	3.342		
12,100.00	10,929.59	10,908.14	10,904.27	44.66	161.87	89.769	-1,198.53	-403.92	660.63	465.11	195.52	3.379		
12,150.00	10,929.34	10,905.98	10,902.11	45.06	161.84	89.581	-1,198.61	-403.92	667.42	473.17	194.25	3.436		
12,200.00	10,929.09	10,903.82	10,899.96	45.46	161.81	89.394	-1,198.70	-403.92	677.83	484.83	193.00	3.512		
12,250.00	10,928.84	10,901.67	10,897.80	45.88	161.79	89.206	-1,198.78	-403.92	691.70	499.88	191.82	3.606		
12,300.00	10,928.59	10,899.51	10,895.65	46.31	161.76	89.018	-1,198.86	-403.92	708.83	518.10	190.74	3.716		
12,350.00	10,928.34	10,897.36	10,893.50	46.75	161.73	88.831	-1,198.94	-403.92	728.99	539.22	189.77	3.841		
12,400.00	10,928.09	10,895.22	10,891.36	47.19	161.71	88.644	-1,199.02	-403.92	751.93	563.01	188.93	3.980		
12,450.00	10,927.84	10,893.07	10,889.21	47.66	161.68	88.458	-1,199.11	-403.92	777.41	589.20	188.21	4.130		
12,500.00	10,927.59	10,890.93	10,887.07	48.12	161.65	88.271	-1,199.19	-403.92	805.18	617.57	187.61	4.292		
12,550.00	10,927.34	10,888.78	10,884.93	48.61	161.63	88.085	-1,199.27	-403.92	835.02	647.90	187.12	4.462		
12,600.00	10,927.09	10,886.65	10,882.79	49.09	161.60	87.899	-1,199.35	-403.92	866.72	679.98	186.73	4.642		
12,650.00	10,926.84	10,884.51	10,880.66	49.60	161.58	87.713	-1,199.43	-403.92	900.07	713.64	186.43	4.828		
12,700.00	10,926.59	10,882.37	10,878.52	50.10	161.55	87.527	-1,199.51	-403.92	934.90	748.70	186.20	5.021		
12,750.00	10,926.34	10,880.24	10,876.39	50.62	161.52	87.342	-1,199.59	-403.92	971.06	785.02	186.03	5.220		

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



McVAY DRILLING COMPANY
P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

Rig #1
Well Name and Number: North Lea 10 Fed #1H
Location: Sec.10, T20S, R34E
Operator: Read & Stevens
Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.3	434	4	8186	89.98	15680		
0.4	869	3.6	8561		TD-15740		
0.3	1245	3.0	7717				
0.7	1687	4	8186				
1	2088	3.6	8561				
0.6	2557	1.3	9781				
0.8	2993	1.5	10053				
0.8	3309	1.2	10343				
0.5	3683	1.3	9781				
0.1	4058	1.5	10053				
0.5	4526	1.2	10343				
0.3	4907	23.7	10532				
0.4	5088	49.15	10908				
0.6	5274	91.56	11379				
0.8	5380	92.23	11568				
1.5	5661	88.44	11951				
2.7	6034	92.62	12421				
2.7	6314	91.87	12891				
3.8	6688	87.38	13361				
4.6	6969	90.37	13833				
3.9	7343	91.52	14204				
3.5	7530	88.92	14772				
3	7717	87.82	15147				

By [Signature]

Subscribed and sworn to before me this 12th day of March, 2020

[Signature]

Notary Public, Lea County, New Mexico



District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 79664

ACKNOWLEDGMENTS

Operator: READ & STEVENS INC P.O. Box 1518 Roswell, NM 88202	OGRID: 18917
	Action Number: 79664
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 79664

CONDITIONS

Operator: READ & STEVENS INC P.O. Box 1518 Roswell, NM 88202	OGRID: 18917
	Action Number: 79664
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 2/15/2022.	2/9/2022