

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM56264

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Contact: KELLY BARAJAS

READ & STEVENS INCORPORATED E-Mail: kbarajas@read-stevens.com

3a. Address

ROSWELL, NM 88202

3b. Phone No. (include area code)

Ph: 575-624-3760

Fx: 575-622-8643

8. Well Name and No.

NORTH LEA 10 FED COM 2H

9. API Well No.

30-025-43680-00-X1

10. Field and Pool or Exploratory Area

TEAS-BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 10 T20S R34E NWNE 400FNL 1470FEL
32.353772 N Lat, 103.323933 W Lon

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

Read & Stevens, Inc. requests to change the BHL for the subject well as follows:

Permitted BHL: SWSE, 330' FSL & 1670' FEL, Sec 10-T20S-R34E

Proposed BHL: SWSE, 100' FSL & 1710' FEL, Sec 10-T20S-R34E

Please see updated documentation for your use.

Carlsbad Field Office
OCD Hobbs

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #492898 verified by the BLM Well Information System

For READ & STEVENS INCORPORATED, sent to the Hobbs

Committed to AFMSS for processing by PRISCILLA PEREZ on 11/21/2019 (20PP0419SE)

Name (Printed/Typed) BILL PIERCE

Title ENGINEER

Signature (Electronic Submission)

Date 11/19/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JEROMY PORTER

Title PETROLEUM ENGINEER

Date 11/21/2019

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

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Revisions to Operator-Submitted EC Data for Sundry Notice #492898

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM56264	NMNM56264
Agreement:		
Operator:	READ & STEVENS, INC. 400 N. PENNSYLVANIA, SUITE 1000 ROSWELL, NM 88201 Ph: 575-622-3770	READ & STEVENS INCORPORATED ROSWELL, NM 88202 Ph: 575 622 3770 Fx: 575 622 8643
Admin Contact:	KELLY BARAJAS PRODUCTION & REGULATORY E-Mail: kbarajas@read-stevens.com Ph: 575-622-3770 Fx: 575-622-8643	KELLY BARAJAS REPORT PREPARER E-Mail: kbarajas@read-stevens.com Ph: 575-624-3760 Fx: 575-622-8643
Tech Contact:	BILL PIERCE ENGINEER E-Mail: bill@vfpetroleum.com Ph: 432-683-3344 Fx: 915-683-3352	BILL PIERCE ENGINEER E-Mail: bill@vfpetroleum.com Ph: 432-683-3344 Fx: 915-683-3352
Location:		
State:	NM	NM
County:	LEA COUNTY	LEA
Field/Pool:	QUAIL RIDGE; BS, SOUTH	TEAS-BONE SPRING
Well/Facility:	NORTH LEA 10 FEDERAL COM #2H Sec 10 T20S R34E 470FNL 1470FEL	NORTH LEA 10 FED COM 2H Sec 10 T20S R34E NWNE 400FNL 1470FEL 32.353772 N Lat, 103.323933 W Lon

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43680		² Pool Code 50461		³ Pool Name QUAIL RIDGE; BS, SOUTH	
⁴ Property Code 317199		⁵ Property Name NORTH LEA 10 FED COM			⁶ Well Number 2H
⁷ OGRID No. 18917		⁸ Operator Name READ & STEVENS, INC.			⁹ Elevation 3640.7

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
B	10	20 S	34 E		470	NORTH	1470	EAST	LEA

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
O	10	20 S	34 E		100	SOUTH	1710	EAST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°19'33"E 2632.55 FT NW CORNER SEC. 10 LAT. = 32.5948668°N LONG. = 103.5566124°W N/4 CORNER SEC. 10 LAT. = 32.5948987°N LONG. = 103.5480666°W W/4 CORNER SEC. 10 LAT. = 32.5876190°N LONG. = 103.5566612°W SW CORNER SEC. 10 LAT. = 32.5803663°N LONG. = 103.5566622°W S89°26'10"W 2644.92 FT		N89°22'54"E 2642.76 FT FTP SURFACE LOCATION NE CORNER SEC. 10 LAT. = 32.5949232°N LONG. = 103.5394877°W NORTH LEA 10 FED COM 2H ELEV. = 3640.7' LAT. = 32.5936181°N (NAD83) LONG. = 103.5442604°W FIRST TAKE POINT 100' FNL, 1710' FEL LAT. = 32.5946326°N LONG. = 103.5450387°W E/4 CORNER SEC. 10 LAT. = 32.5876784°N LONG. = 103.5394863°W SE CORNER SEC. 10 LAT. = 32.5804098°N LONG. = 103.5394939°W S89°22'33"W 2644.68 FT		¹⁶ 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>Jason Lodge</i> 11/18/19 Signature Date JASON LODGE Printed Name JLODGE@READ-STEVEN.COM E-mail Address	
N00°05'29"W 2637.48 FT N00°24'42"W 2639.22 FT		S00°26'13"E 2636.50 FT S00°22'37"E 2644.92 FT		¹⁷ 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. JULY 11, 2019 Date of Survey <i>Edmund F. Jaramillo</i> Signature of Professional Surveyor EDMUND F. JARAMILLO, PLS 12797 Certificate Number SURVEY NO. 6922A	

Intent ☒ As Drilled ☐

API #
30-025-43680

Operator Name:
READ & STEVENS, INC.

Property Name:
NORTH LEA 10 FED COM

Well Number
2H

Kick Off Point (KOP)

UL B	Section 10	Township 20S	Range 34E	Lot	Feet 100	From N/S NORTH	Feet 1710	From E/W EAST	County LEA
Latitude 32.5946326					Longitude 103.5450387			NAD 83	

First Take Point (FTP)

UL B	Section 10	Township 20S	Range 34E	Lot	Feet 100	From N/S NORTH	Feet 1710	From E/W EAST	County LEA
Latitude 32.5946326					Longitude 103.5450387			NAD 83	

Last Take Point (LTP)

UL O	Section 10	Township 20S	Range 34E	Lot	Feet 100	From N/S SOUTH	Feet 1710	From E/W EAST	County LEA
Latitude 32.5806684					Longitude 103.5450438			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.

Lea County, NM (NAD 83)

North Lea 10 Fed Com

#2H

OH

Plan: Plan #1

Standard Planning Report

27 August, 2019

LEAM Drilling Systems

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well #2H
Company:	Read & Stevens, Inc.	TVD Reference:	GE 3640.7' + KB 20' @ 3660.70usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3640.7' + KB 20' @ 3660.70usft
Site:	North Lea 10 Fed Com	North Reference:	Grid
Well:	#2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD 83)		
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 Fed Com				
Site Position:		Northing:	580,867.02 usft	Latitude:	32° 35' 39.696 N
From:	Map	Easting:	785,246.54 usft	Longitude:	103° 32' 28.892 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	#2H					
Well Position	+N/-S	-279.66 usft	Northing:	580,587.36 usft	Latitude:	32° 35' 36.995 N
	+E/-W	-893.09 usft	Easting:	784,353.45 usft	Longitude:	103° 32' 39.355 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,640.70 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/27/2019	6.52	60.48	48,088.70000000

Design	Plan #1			
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	179.59

Plan Survey Tool Program Date 8/27/2019

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.00	15,791.98	Plan #1 (OH)	LEAM_MWD+HDGM	
			LEAM MWD + HDGM	

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,265.61	5.31	326.57	2,265.23	10.27	-6.78	2.00	2.00	0.00	326.57	
6,754.43	5.31	326.57	6,734.77	357.12	-235.71	0.00	0.00	0.00	0.00	
7,020.04	0.00	0.00	7,000.00	367.39	-242.49	2.00	-2.00	0.00	180.00	
10,437.84	0.00	0.00	10,417.80	367.39	-242.49	0.00	0.00	0.00	0.00	
11,186.42	89.83	179.59	10,895.26	-108.65	-239.08	12.00	12.00	0.00	179.59	
15,791.98	89.83	179.60	10,909.00	-4,714.07	-206.36	0.00	0.00	0.00	107.47	PBHL (North Lea 10 F

LEAM Drilling Systems

Planning Report

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 Company: Read & Stevens, Inc.
 Project: Lea County, NM (NAD 83)
 Site: North Lea 10 Fed Com
 Well: #2H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #2H
 TVD Reference: GE 3640.7' + KB 20' @ 3660.70usft
 MD Reference: GE 3640.7' + KB 20' @ 3660.70usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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
SHL (North Lea 10 Fed Com #2H)									
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	2.00	326.57	2,099.98	1.46	-0.96	-1.46	2.00	2.00	0.00
2,200.00	4.00	326.57	2,199.84	5.82	-3.84	-5.85	2.00	2.00	0.00
2,265.61	5.31	326.57	2,265.23	10.27	-6.78	-10.32	2.00	2.00	0.00
2,300.00	5.31	326.57	2,299.47	12.93	-8.53	-12.99	0.00	0.00	0.00
2,400.00	5.31	326.57	2,399.04	20.65	-13.63	-20.75	0.00	0.00	0.00
2,500.00	5.31	326.57	2,498.61	28.38	-18.73	-28.51	0.00	0.00	0.00
2,600.00	5.31	326.57	2,598.18	36.11	-23.83	-36.28	0.00	0.00	0.00
2,700.00	5.31	326.57	2,697.75	43.83	-28.93	-44.04	0.00	0.00	0.00
2,800.00	5.31	326.57	2,797.32	51.56	-34.03	-51.80	0.00	0.00	0.00
2,900.00	5.31	326.57	2,896.89	59.29	-39.13	-59.57	0.00	0.00	0.00
3,000.00	5.31	326.57	2,996.47	67.02	-44.23	-67.33	0.00	0.00	0.00
3,100.00	5.31	326.57	3,096.04	74.74	-49.33	-75.09	0.00	0.00	0.00
3,200.00	5.31	326.57	3,195.61	82.47	-54.43	-82.86	0.00	0.00	0.00
3,300.00	5.31	326.57	3,295.18	90.20	-59.53	-90.62	0.00	0.00	0.00
3,400.00	5.31	326.57	3,394.75	97.92	-64.63	-98.38	0.00	0.00	0.00
3,500.00	5.31	326.57	3,494.32	105.65	-69.73	-106.15	0.00	0.00	0.00
3,600.00	5.31	326.57	3,593.89	113.38	-74.83	-113.91	0.00	0.00	0.00
3,700.00	5.31	326.57	3,693.46	121.10	-79.93	-121.67	0.00	0.00	0.00
3,800.00	5.31	326.57	3,793.03	128.83	-85.03	-129.44	0.00	0.00	0.00
3,900.00	5.31	326.57	3,892.60	136.56	-90.13	-137.20	0.00	0.00	0.00
4,000.00	5.31	326.57	3,992.17	144.29	-95.23	-144.96	0.00	0.00	0.00
4,100.00	5.31	326.57	4,091.74	152.01	-100.33	-152.73	0.00	0.00	0.00
4,200.00	5.31	326.57	4,191.31	159.74	-105.43	-160.49	0.00	0.00	0.00
4,300.00	5.31	326.57	4,290.88	167.47	-110.53	-168.25	0.00	0.00	0.00
4,400.00	5.31	326.57	4,390.45	175.19	-115.63	-176.02	0.00	0.00	0.00
4,500.00	5.31	326.57	4,490.02	182.92	-120.73	-183.78	0.00	0.00	0.00
4,600.00	5.31	326.57	4,589.59	190.65	-125.83	-191.54	0.00	0.00	0.00
4,700.00	5.31	326.57	4,689.16	198.38	-130.93	-199.31	0.00	0.00	0.00
4,800.00	5.31	326.57	4,788.73	206.10	-136.03	-207.07	0.00	0.00	0.00
4,900.00	5.31	326.57	4,888.30	213.83	-141.13	-214.83	0.00	0.00	0.00
5,000.00	5.31	326.57	4,987.88	221.56	-146.23	-222.60	0.00	0.00	0.00
5,100.00	5.31	326.57	5,087.45	229.28	-151.33	-230.36	0.00	0.00	0.00

LEAM Drilling Systems

Planning Report

Database: LEAM Multi_User Db
 Company: Read & Stevens, Inc.
 Project: Lea County, NM (NAD 83)
 Site: North Lea 10 Fed Com
 Well: #2H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #2H
 TVD Reference: GE 3640.7' + KB 20' @ 3660.70usft
 MD Reference: GE 3640.7' + KB 20' @ 3660.70usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buid Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	5.31	326.57	5,187.02	237.01	-156.43	-238.12	0.00	0.00	0.00
5,300.00	5.31	326.57	5,286.59	244.74	-161.53	-245.89	0.00	0.00	0.00
5,400.00	5.31	326.57	5,386.16	252.46	-166.63	-253.65	0.00	0.00	0.00
5,500.00	5.31	326.57	5,485.73	260.19	-171.73	-261.41	0.00	0.00	0.00
5,600.00	5.31	326.57	5,585.30	267.92	-176.83	-269.18	0.00	0.00	0.00
5,700.00	5.31	326.57	5,684.87	275.65	-181.93	-276.94	0.00	0.00	0.00
5,800.00	5.31	326.57	5,784.44	283.37	-187.03	-284.70	0.00	0.00	0.00
5,900.00	5.31	326.57	5,884.01	291.10	-192.13	-292.47	0.00	0.00	0.00
6,000.00	5.31	326.57	5,983.58	298.83	-197.23	-300.23	0.00	0.00	0.00
6,100.00	5.31	326.57	6,083.15	306.55	-202.33	-307.99	0.00	0.00	0.00
6,200.00	5.31	326.57	6,182.72	314.28	-207.43	-315.76	0.00	0.00	0.00
6,300.00	5.31	326.57	6,282.29	322.01	-212.53	-323.52	0.00	0.00	0.00
6,400.00	5.31	326.57	6,381.86	329.73	-217.63	-331.28	0.00	0.00	0.00
6,500.00	5.31	326.57	6,481.43	337.46	-222.73	-339.05	0.00	0.00	0.00
6,600.00	5.31	326.57	6,581.00	345.19	-227.83	-346.81	0.00	0.00	0.00
6,700.00	5.31	326.57	6,680.57	352.92	-232.93	-354.57	0.00	0.00	0.00
6,754.43	5.31	326.57	6,734.77	357.12	-235.71	-358.80	0.00	0.00	0.00
6,800.00	4.40	326.57	6,780.18	360.34	-237.84	-362.03	2.00	-2.00	0.00
6,900.00	2.40	326.57	6,879.99	365.29	-241.10	-367.01	2.00	-2.00	0.00
7,000.00	0.40	326.57	6,979.96	367.33	-242.45	-369.06	2.00	-2.00	0.00
7,020.04	0.00	0.00	7,000.00	367.39	-242.49	-369.12	2.00	-2.00	0.00
7,100.00	0.00	0.00	7,079.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,200.00	0.00	0.00	7,179.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,300.00	0.00	0.00	7,279.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,400.00	0.00	0.00	7,379.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,500.00	0.00	0.00	7,479.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,600.00	0.00	0.00	7,579.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,700.00	0.00	0.00	7,679.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,800.00	0.00	0.00	7,779.96	367.39	-242.49	-369.12	0.00	0.00	0.00
7,900.00	0.00	0.00	7,879.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,000.00	0.00	0.00	7,979.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,100.00	0.00	0.00	8,079.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,200.00	0.00	0.00	8,179.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,300.00	0.00	0.00	8,279.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,400.00	0.00	0.00	8,379.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,500.00	0.00	0.00	8,479.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,600.00	0.00	0.00	8,579.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,700.00	0.00	0.00	8,679.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,800.00	0.00	0.00	8,779.96	367.39	-242.49	-369.12	0.00	0.00	0.00
8,900.00	0.00	0.00	8,879.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,000.00	0.00	0.00	8,979.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,100.00	0.00	0.00	9,079.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,200.00	0.00	0.00	9,179.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,300.00	0.00	0.00	9,279.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,400.00	0.00	0.00	9,379.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,500.00	0.00	0.00	9,479.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,600.00	0.00	0.00	9,579.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,700.00	0.00	0.00	9,679.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,800.00	0.00	0.00	9,779.96	367.39	-242.49	-369.12	0.00	0.00	0.00
9,900.00	0.00	0.00	9,879.96	367.39	-242.49	-369.12	0.00	0.00	0.00
10,000.00	0.00	0.00	9,979.96	367.39	-242.49	-369.12	0.00	0.00	0.00
10,100.00	0.00	0.00	10,079.96	367.39	-242.49	-369.12	0.00	0.00	0.00
10,200.00	0.00	0.00	10,179.96	367.39	-242.49	-369.12	0.00	0.00	0.00
10,300.00	0.00	0.00	10,279.96	367.39	-242.49	-369.12	0.00	0.00	0.00

LEAM Drilling Systems

Planning Report

Database: LEAM Multi_User Db
 Company: Read & Stevens, Inc.
 Project: Lea County, NM (NAD 83)
 Site: North Lea 10 Fed Com
 Well: #2H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #2H
 TVD Reference: GE 3640.7' + KB 20' @ 3660.70usft
 MD Reference: GE 3640.7' + KB 20' @ 3660.70usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
10,400.00	0.00	0.00	10,379.96	367.39	-242.49	-369.12	0.00	0.00	0.00
10,437.84	0.00	0.00	10,417.80	367.39	-242.49	-369.12	0.00	0.00	0.00
10,450.00	1.46	179.59	10,429.96	367.24	-242.49	-368.96	12.00	12.00	0.00
10,475.00	4.46	179.59	10,454.92	365.95	-242.48	-367.67	12.00	12.00	0.00
10,500.00	7.46	179.59	10,479.78	363.35	-242.46	-365.08	12.00	12.00	0.00
10,525.00	10.46	179.59	10,504.48	359.46	-242.43	-361.18	12.00	12.00	0.00
10,550.00	13.46	179.59	10,528.93	354.28	-242.39	-356.00	12.00	12.00	0.00
10,575.00	16.46	179.59	10,553.08	347.83	-242.35	-349.55	12.00	12.00	0.00
10,600.00	19.46	179.59	10,576.86	340.12	-242.29	-341.84	12.00	12.00	0.00
10,625.00	22.46	179.59	10,600.20	331.18	-242.23	-332.90	12.00	12.00	0.00
10,650.00	25.46	179.59	10,623.05	321.03	-242.16	-322.75	12.00	12.00	0.00
10,675.00	28.46	179.59	10,645.33	309.69	-242.08	-311.42	12.00	12.00	0.00
10,700.00	31.46	179.59	10,666.98	297.21	-241.99	-298.94	12.00	12.00	0.00
10,725.00	34.46	179.59	10,687.96	283.61	-241.89	-285.34	12.00	12.00	0.00
10,750.00	37.46	179.59	10,708.19	268.93	-241.78	-270.66	12.00	12.00	0.00
10,775.00	40.46	179.59	10,727.63	253.22	-241.67	-254.94	12.00	12.00	0.00
10,800.00	43.46	179.59	10,746.22	236.50	-241.55	-238.23	12.00	12.00	0.00
10,812.09	44.91	179.59	10,754.89	228.08	-241.49	-229.80	12.00	12.00	0.00
FTP (North Lea 10 Fed Com #2H)									
10,825.00	46.46	179.59	10,763.91	218.84	-241.43	-220.56	12.00	12.00	0.00
10,850.00	49.46	179.59	10,780.65	200.28	-241.29	-202.00	12.00	12.00	0.00
10,875.00	52.46	179.59	10,796.39	180.86	-241.15	-182.58	12.00	12.00	0.00
10,900.00	55.46	179.59	10,811.10	160.65	-241.01	-162.37	12.00	12.00	0.00
10,925.00	58.46	179.59	10,824.73	139.70	-240.86	-141.42	12.00	12.00	0.00
10,950.00	61.46	179.59	10,837.24	118.06	-240.70	-119.78	12.00	12.00	0.00
10,975.00	64.46	179.59	10,848.61	95.79	-240.54	-97.51	12.00	12.00	0.00
11,000.00	67.46	179.59	10,858.79	72.97	-240.38	-74.68	12.00	12.00	0.00
11,025.00	70.46	179.59	10,867.76	49.64	-240.21	-51.35	12.00	12.00	0.00
11,050.00	73.46	179.59	10,875.51	25.87	-240.04	-27.59	12.00	12.00	0.00
11,075.00	76.46	179.59	10,881.99	1.73	-239.87	-3.44	12.00	12.00	0.00
11,100.00	79.46	179.59	10,887.21	-22.72	-239.70	21.00	12.00	12.00	0.00
11,125.00	82.46	179.59	10,891.14	-47.40	-239.52	45.69	12.00	12.00	0.00
11,150.00	85.46	179.59	10,893.77	-72.26	-239.34	70.55	12.00	12.00	0.00
11,175.00	88.46	179.59	10,895.09	-97.22	-239.16	95.51	12.00	12.00	0.00
11,186.42	89.83	179.59	10,895.26	-108.65	-239.08	106.93	12.00	12.00	0.00
11,200.00	89.83	179.59	10,895.30	-122.22	-238.98	120.51	0.00	0.00	0.00
11,300.00	89.83	179.59	10,895.60	-222.22	-238.27	220.51	0.00	0.00	0.00
11,400.00	89.83	179.59	10,895.90	-322.22	-237.55	320.51	0.00	0.00	0.00
11,500.00	89.83	179.59	10,896.19	-422.21	-236.84	420.51	0.00	0.00	0.00
11,600.00	89.83	179.59	10,896.49	-522.21	-236.12	520.51	0.00	0.00	0.00
11,700.00	89.83	179.59	10,896.79	-622.21	-235.41	620.51	0.00	0.00	0.00
11,800.00	89.83	179.59	10,897.08	-722.20	-234.70	720.51	0.00	0.00	0.00
11,900.00	89.83	179.59	10,897.38	-822.20	-233.98	820.50	0.00	0.00	0.00
12,000.00	89.83	179.59	10,897.68	-922.20	-233.27	920.50	0.00	0.00	0.00
12,100.00	89.83	179.59	10,897.98	-1,022.19	-232.55	1,020.50	0.00	0.00	0.00
12,200.00	89.83	179.59	10,898.27	-1,122.19	-231.84	1,120.50	0.00	0.00	0.00
12,300.00	89.83	179.59	10,898.57	-1,222.19	-231.13	1,220.50	0.00	0.00	0.00
12,400.00	89.83	179.59	10,898.87	-1,322.19	-230.41	1,320.50	0.00	0.00	0.00
12,500.00	89.83	179.59	10,899.17	-1,422.18	-229.70	1,420.50	0.00	0.00	0.00
12,600.00	89.83	179.59	10,899.46	-1,522.18	-228.99	1,520.50	0.00	0.00	0.00
12,700.00	89.83	179.59	10,899.76	-1,622.18	-228.28	1,620.50	0.00	0.00	0.00
12,800.00	89.83	179.59	10,900.06	-1,722.17	-227.56	1,720.50	0.00	0.00	0.00
12,900.00	89.83	179.59	10,900.36	-1,822.17	-226.85	1,820.50	0.00	0.00	0.00
13,000.00	89.83	179.59	10,900.66	-1,922.17	-226.14	1,920.50	0.00	0.00	0.00

LEAM Drilling Systems

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well #2H
Company:	Read & Stevens, Inc.	TVD Reference:	GE 3640.7' + KB 20' @ 3660.70usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3640.7' + KB 20' @ 3660.70usft
Site:	North Lea 10 Fed Com	North Reference:	Grid
Well:	#2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
13,100.00	89.83	179.59	10,900.95	-2,022.16	-225.43	2,020.50	0.00	0.00	0.00
13,200.00	89.83	179.59	10,901.25	-2,122.16	-224.72	2,120.50	0.00	0.00	0.00
13,300.00	89.83	179.59	10,901.55	-2,222.16	-224.01	2,220.50	0.00	0.00	0.00
13,400.00	89.83	179.59	10,901.85	-2,322.16	-223.30	2,320.50	0.00	0.00	0.00
13,500.00	89.83	179.59	10,902.15	-2,422.15	-222.58	2,420.50	0.00	0.00	0.00
13,600.00	89.83	179.59	10,902.44	-2,522.15	-221.87	2,520.50	0.00	0.00	0.00
13,700.00	89.83	179.59	10,902.74	-2,622.15	-221.16	2,620.50	0.00	0.00	0.00
13,800.00	89.83	179.59	10,903.04	-2,722.14	-220.45	2,720.50	0.00	0.00	0.00
13,900.00	89.83	179.59	10,903.34	-2,822.14	-219.74	2,820.50	0.00	0.00	0.00
14,000.00	89.83	179.59	10,903.64	-2,922.14	-219.03	2,920.50	0.00	0.00	0.00
14,100.00	89.83	179.59	10,903.94	-3,022.13	-218.32	3,020.50	0.00	0.00	0.00
14,200.00	89.83	179.59	10,904.24	-3,122.13	-217.62	3,120.49	0.00	0.00	0.00
14,300.00	89.83	179.59	10,904.53	-3,222.13	-216.91	3,220.49	0.00	0.00	0.00
14,400.00	89.83	179.59	10,904.83	-3,322.13	-216.20	3,320.49	0.00	0.00	0.00
14,500.00	89.83	179.59	10,905.13	-3,422.12	-215.49	3,420.49	0.00	0.00	0.00
14,600.00	89.83	179.59	10,905.43	-3,522.12	-214.78	3,520.49	0.00	0.00	0.00
14,700.00	89.83	179.59	10,905.73	-3,622.12	-214.07	3,620.49	0.00	0.00	0.00
14,800.00	89.83	179.59	10,906.03	-3,722.11	-213.37	3,720.49	0.00	0.00	0.00
14,900.00	89.83	179.59	10,906.33	-3,822.11	-212.66	3,820.49	0.00	0.00	0.00
15,000.00	89.83	179.59	10,906.63	-3,922.11	-211.95	3,920.49	0.00	0.00	0.00
15,100.00	89.83	179.59	10,906.93	-4,022.11	-211.24	4,020.49	0.00	0.00	0.00
15,200.00	89.83	179.59	10,907.23	-4,122.10	-210.54	4,120.49	0.00	0.00	0.00
15,300.00	89.83	179.60	10,907.53	-4,222.10	-209.83	4,220.49	0.00	0.00	0.00
15,400.00	89.83	179.60	10,907.83	-4,322.10	-209.12	4,320.49	0.00	0.00	0.00
15,500.00	89.83	179.60	10,908.13	-4,422.09	-208.42	4,420.49	0.00	0.00	0.00
15,600.00	89.83	179.60	10,908.42	-4,522.09	-207.71	4,520.49	0.00	0.00	0.00
15,700.00	89.83	179.60	10,908.72	-4,622.09	-207.00	4,620.49	0.00	0.00	0.00
15,791.98	89.83	179.60	10,909.00	-4,714.07	-206.36	4,712.47	0.00	0.00	0.00

PBHL (North Lea 10 Fed Com #2H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (North Lea 10 Fed Com #2H) - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	580,587.36	784,353.45	32° 35' 36.995 N	103° 32' 39.355 W
FTP (North Lea 10 Fed Com #2H) - plan misses target center by 196.88usft at 10812.09usft MD (10754.89 TVD, 228.08 N, -241.49 E) - Point	0.00	0.00	10,894.00	367.39	-242.49	580,954.75	784,110.96	32° 35' 40.648 N	103° 32' 42.157 W
PBHL (North Lea 10 Fed Com #2H) - plan hits target center - Point	0.00	0.00	10,909.00	-4,714.07	-206.36	575,873.30	784,147.09	32° 34' 50.366 N	103° 32' 42.175 W