

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

HOBBS OCD
DEC 13 2019

5. Lease Serial No.
NMNM105221

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

RECEIVED

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **READ & STEVENS INCORPORATED** Contact: **KELLY BARAJAS**
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 3H

9. API Well No.
30-025-43681-00-X1

10. Field and Pool or Exploratory Area
LEA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**Sec 10 T20S R34E NENW 200FNL 2290FWL
32.353964 N Lat, 103.325706 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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A PD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete 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 recompletion 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: SESW, 330' FSL & 2290' FWL, Sec 10-T20S-R34E

Proposed BHL: SESW, 100' FSL & 2190' FWL, 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 #492902 verified by the BLM Well Information System
For READ & STEVENS INCORPORATED, sent to the Hobbs
Committed to AFMS for processing by PRISCILLA PEREZ on 11/21/2019 (20PP0420SE)**

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 ****

F2

Revisions to Operator-Submitted EC Data for Sundry Notice #492902

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM56264	NMNM105221
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	LEA
Well/Facility:	NORTH LEA 10 FEDERAL COM #3H Sec 10 T20S R34E 420FNL 2290FWL	NORTH LEA 10 FED COM 3H Sec 10 T20S R34E NENW 200FNL 2290FWL 32.353964 N Lat, 103.325706 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 30-025-43681		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 3H
⁷ OGRID No. 18917		⁸ Operator Name READ & STEVENS, INC.			⁹ Elevation 3637.8

¹⁰ Surface Location

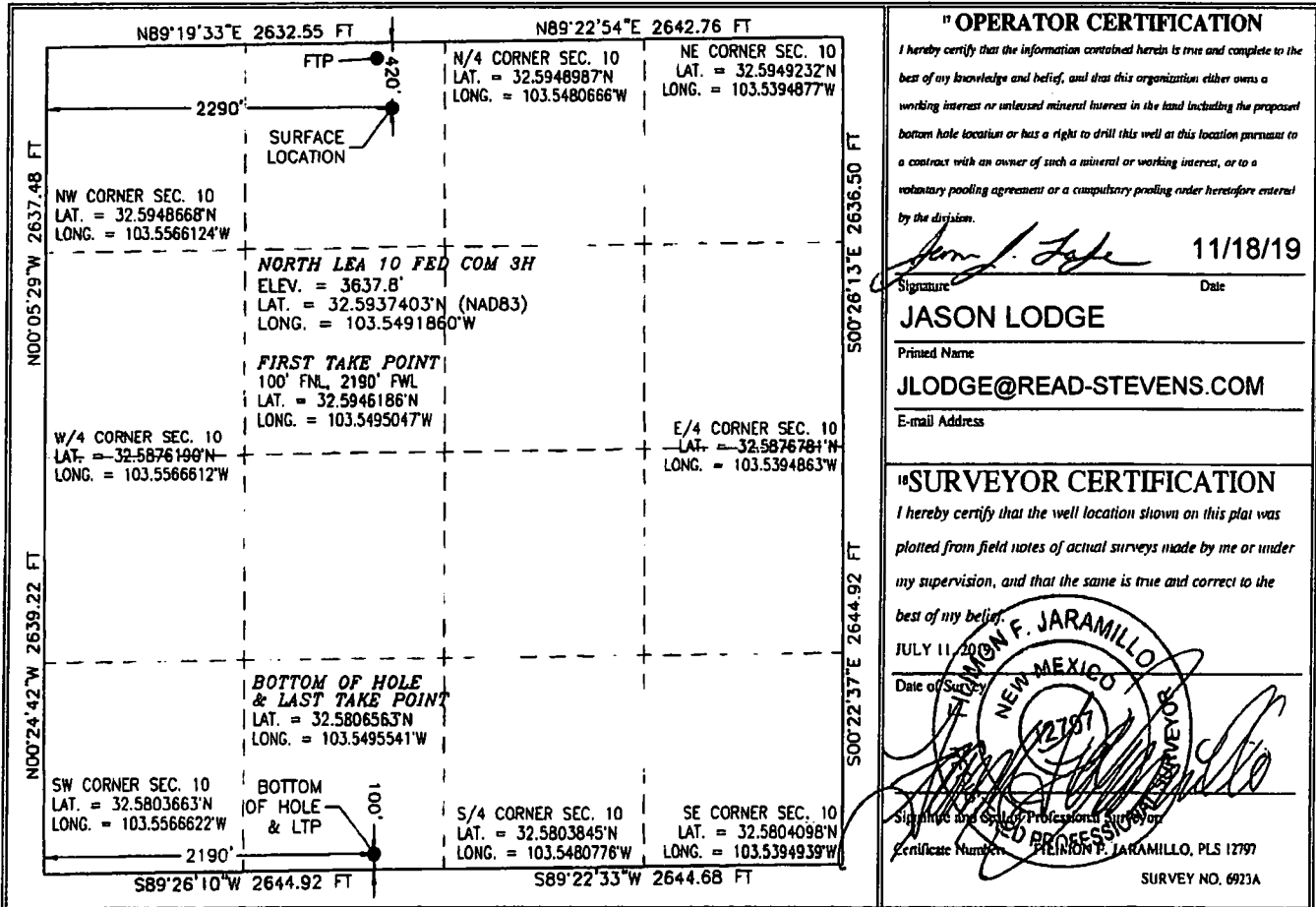
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	10	20 S	34 E		420	NORTH	2290	WEST	LEA

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
N	10	20 S	34 E		100	SOUTH	2190	WEST	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.



" 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.

Jason Lodge 11/18/19
Signature Date

JASON LODGE
Printed Name
JLODGE@READ-STEVEN.COM
E-mail Address

" 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 2011
Date of Survey
HIMON F. JARAMILLO
Surveyor
Signature and Seal of Professional Surveyor
Certificate Number: **HIMON F. JARAMILLO, PLS 12797**
SURVEY NO. 6923A

Intent As Drilled

API #
30-025-43681

Operator Name: READ & STEVENS, INC.	Property Name: NORTH LEA 10 FED COM	Well Number 3H
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Kick Off Point (KOP)

UL C	Section 10	Township 20S	Range 34E	Lot	Feet 100	From N/S NORTH	Feet 2190	From E/W WEST	County LEA
Latitude 32.5946186					Longitude 103.5495047				NAD 83

First Take Point (FTP)

UL C	Section 10	Township 20S	Range 34E	Lot	Feet 100	From N/S NORTH	Feet 2190	From E/W WEST	County LEA
Latitude 32.5946186					Longitude 103.5495047				NAD 83

Last Take Point (LTP)

UL N	Section 10	Township 20S	Range 34E	Lot	Feet 100	From N/S SOUTH	Feet 2190	From E/W WEST	County LEA
Latitude 32.5806563					Longitude 103.5495541				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? YES

Is this well an infill well? NO

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
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KZ 06/29/2018

Read & Stevens, Inc.

Lea County, NM (NAD 83)

North Lea 10 Fed Com

#3H

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 #3H	Well #3H
Company: Read & Stevens, Inc.	TVD Reference: GE 3637.8' + KB 20' @ 3657.80usft	GE 3637.8' + KB 20' @ 3657.80usft
Project: Lea County, NM (NAD 83)	MD Reference: GE 3637.8' + KB 20' @ 3657.80usft	Grid
Site: North Lea 10 Fed Com	North Reference: Grid	Minimum Curvature
Well: #3H	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	#3H					
Well Position	+N-S	-246.42 usft	Northing:	580,620.60 usft	Latitude:	32° 35' 37.435 N
	+E-W	-2,410.75 usft	Easting:	782,835.78 usft	Longitude:	103° 32' 57.091 W
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,637.80 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	8/27/2019	(°)	(°)	(nT)
			6.52	60.48	48,092.70000000

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	179.75

Plan Survey Tool Program		Date 8/27/2019	
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.00	15,751.06 Plan #1 (OH)	LEAM_MWD+HDGM
			LEAM MWD + HDGM

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
2,199.20	3.98	342.50	2,199.03	6.60	-2.08	2.00	2.00	0.00	342.50	
6,812.27	3.98	342.50	6,800.97	312.27	-98.45	0.00	0.00	0.00	0.00	
7,011.47	0.00	0.00	7,000.00	318.87	-100.53	2.00	-2.00	0.00	180.00	
10,397.47	0.00	0.00	10,386.00	318.87	-100.53	0.00	0.00	0.00	0.00	
11,143.37	89.51	179.75	10,863.45	-154.49	-98.46	12.00	12.00	24.10	179.75	
15,751.06	89.51	179.75	10,903.00	-4,761.97	-78.35	0.00	0.00	0.00	0.00	PBHL (North Lea 10 F

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: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #3H
TVD Reference: GE 3637.8' + KB 20' @ 3657.80usft
MD Reference: GE 3637.8' + KB 20' @ 3657.80usft
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 #3H)									
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	342.50	2,099.98	1.66	-0.52	-1.67	2.00	2.00	0.00
2,199.20	3.98	342.50	2,199.03	6.60	-2.08	-6.61	2.00	2.00	0.00
2,300.00	3.98	342.50	2,299.60	13.28	-4.19	-13.30	0.00	0.00	0.00
2,400.00	3.98	342.50	2,399.35	19.91	-6.28	-19.93	0.00	0.00	0.00
2,500.00	3.98	342.50	2,499.11	26.53	-8.37	-26.57	0.00	0.00	0.00
2,600.00	3.98	342.50	2,598.87	33.16	-10.45	-33.21	0.00	0.00	0.00
2,700.00	3.98	342.50	2,698.63	39.79	-12.54	-39.84	0.00	0.00	0.00
2,800.00	3.98	342.50	2,798.39	46.41	-14.63	-46.48	0.00	0.00	0.00
2,900.00	3.98	342.50	2,898.15	53.04	-16.72	-53.11	0.00	0.00	0.00
3,000.00	3.98	342.50	2,997.90	59.66	-18.81	-59.75	0.00	0.00	0.00
3,100.00	3.98	342.50	3,097.66	66.29	-20.90	-66.38	0.00	0.00	0.00
3,200.00	3.98	342.50	3,197.42	72.92	-22.99	-73.02	0.00	0.00	0.00
3,300.00	3.98	342.50	3,297.18	79.54	-25.08	-79.65	0.00	0.00	0.00
3,400.00	3.98	342.50	3,396.94	86.17	-27.17	-86.29	0.00	0.00	0.00
3,500.00	3.98	342.50	3,496.70	92.80	-29.25	-92.92	0.00	0.00	0.00
3,600.00	3.98	342.50	3,596.45	99.42	-31.34	-99.56	0.00	0.00	0.00
3,700.00	3.98	342.50	3,696.21	106.05	-33.43	-106.19	0.00	0.00	0.00
3,800.00	3.98	342.50	3,795.97	112.67	-35.52	-112.83	0.00	0.00	0.00
3,900.00	3.98	342.50	3,895.73	119.30	-37.61	-119.46	0.00	0.00	0.00
4,000.00	3.98	342.50	3,995.49	125.93	-39.70	-126.10	0.00	0.00	0.00
4,100.00	3.98	342.50	4,095.25	132.55	-41.79	-132.73	0.00	0.00	0.00
4,200.00	3.98	342.50	4,195.00	139.18	-43.88	-139.37	0.00	0.00	0.00
4,300.00	3.98	342.50	4,294.76	145.80	-45.97	-146.00	0.00	0.00	0.00
4,400.00	3.98	342.50	4,394.52	152.43	-48.06	-152.64	0.00	0.00	0.00
4,500.00	3.98	342.50	4,494.28	159.06	-50.14	-159.27	0.00	0.00	0.00
4,600.00	3.98	342.50	4,594.04	165.68	-52.23	-165.91	0.00	0.00	0.00
4,700.00	3.98	342.50	4,693.80	172.31	-54.32	-172.54	0.00	0.00	0.00
4,800.00	3.98	342.50	4,793.56	178.93	-56.41	-179.18	0.00	0.00	0.00
4,900.00	3.98	342.50	4,893.31	185.56	-58.50	-185.81	0.00	0.00	0.00
5,000.00	3.98	342.50	4,993.07	192.19	-60.59	-192.45	0.00	0.00	0.00
5,100.00	3.98	342.50	5,092.83	198.81	-62.68	-199.08	0.00	0.00	0.00
5,200.00	3.98	342.50	5,192.59	205.44	-64.77	-205.72	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: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #3H
TVD Reference: GE 3637.8' + KB 20' @ 3657.80usft
MD Reference: GE 3637.8' + KB 20' @ 3657.80usft
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)
5,300.00	3.98	342.50	5,292.35	212.07	-66.86	-212.36	0.00	0.00	0.00
5,400.00	3.98	342.50	5,392.11	218.69	-68.95	-218.99	0.00	0.00	0.00
5,500.00	3.98	342.50	5,491.86	225.32	-71.03	-225.63	0.00	0.00	0.00
5,600.00	3.98	342.50	5,591.62	231.94	-73.12	-232.26	0.00	0.00	0.00
5,700.00	3.98	342.50	5,691.38	238.57	-75.21	-238.90	0.00	0.00	0.00
5,800.00	3.98	342.50	5,791.14	245.20	-77.30	-245.53	0.00	0.00	0.00
5,900.00	3.98	342.50	5,890.90	251.82	-79.39	-252.17	0.00	0.00	0.00
6,000.00	3.98	342.50	5,990.66	258.45	-81.48	-258.80	0.00	0.00	0.00
6,100.00	3.98	342.50	6,090.41	265.07	-83.57	-265.44	0.00	0.00	0.00
6,200.00	3.98	342.50	6,190.17	271.70	-85.66	-272.07	0.00	0.00	0.00
6,300.00	3.98	342.50	6,289.93	278.33	-87.75	-278.71	0.00	0.00	0.00
6,400.00	3.98	342.50	6,389.69	284.95	-89.84	-285.34	0.00	0.00	0.00
6,500.00	3.98	342.50	6,489.45	291.58	-91.92	-291.98	0.00	0.00	0.00
6,600.00	3.98	342.50	6,589.21	298.20	-94.01	-298.61	0.00	0.00	0.00
6,700.00	3.98	342.50	6,688.96	304.83	-96.10	-305.25	0.00	0.00	0.00
6,800.00	3.98	342.50	6,788.72	311.46	-98.19	-311.88	0.00	0.00	0.00
6,812.27	3.98	342.50	6,800.97	312.27	-98.45	-312.70	0.00	0.00	0.00
6,900.00	2.23	342.50	6,888.56	316.80	-99.88	-317.24	2.00	-2.00	0.00
7,000.00	0.23	342.50	6,988.53	318.85	-100.52	-319.29	2.00	-2.00	0.00
7,011.47	0.00	0.00	7,000.00	318.87	-100.53	-319.31	2.00	-2.00	0.00
7,100.00	0.00	0.00	7,088.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,200.00	0.00	0.00	7,188.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,300.00	0.00	0.00	7,288.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,700.00	0.00	0.00	7,688.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.53	318.87	-100.53	-319.31	0.00	0.00	0.00
7,900.00	0.00	0.00	7,888.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,300.00	0.00	0.00	8,288.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,400.00	0.00	0.00	8,388.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,700.00	0.00	0.00	8,688.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,800.00	0.00	0.00	8,788.53	318.87	-100.53	-319.31	0.00	0.00	0.00
8,900.00	0.00	0.00	8,888.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,100.00	0.00	0.00	9,088.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,300.00	0.00	0.00	9,288.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,400.00	0.00	0.00	9,388.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,500.00	0.00	0.00	9,488.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,600.00	0.00	0.00	9,588.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,700.00	0.00	0.00	9,688.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,800.00	0.00	0.00	9,788.53	318.87	-100.53	-319.31	0.00	0.00	0.00
9,900.00	0.00	0.00	9,888.53	318.87	-100.53	-319.31	0.00	0.00	0.00
10,000.00	0.00	0.00	9,988.53	318.87	-100.53	-319.31	0.00	0.00	0.00
10,100.00	0.00	0.00	10,088.53	318.87	-100.53	-319.31	0.00	0.00	0.00
10,200.00	0.00	0.00	10,188.53	318.87	-100.53	-319.31	0.00	0.00	0.00
10,300.00	0.00	0.00	10,288.53	318.87	-100.53	-319.31	0.00	0.00	0.00
10,397.47	0.00	0.00	10,386.00	318.87	-100.53	-319.31	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: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #3H
TVD Reference: GE 3637.8' + KB 20' @ 3657.80usft
MD Reference: GE 3637.8' + KB 20' @ 3657.80usft
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	0.30	179.75	10,388.53	318.87	-100.53	-319.30	12.00	12.00	0.00
10,425.00	3.30	179.75	10,413.52	318.08	-100.53	-318.51	12.00	12.00	0.00
10,450.00	6.30	179.75	10,438.43	315.99	-100.52	-316.42	12.00	12.00	0.00
10,475.00	9.30	179.75	10,463.19	312.59	-100.50	-313.03	12.00	12.00	0.00
10,500.00	12.30	179.75	10,487.75	307.91	-100.48	-308.34	12.00	12.00	0.00
10,525.00	15.30	179.75	10,512.02	301.94	-100.46	-302.38	12.00	12.00	0.00
10,550.00	18.30	179.75	10,535.95	294.72	-100.42	-295.15	12.00	12.00	0.00
10,575.00	21.30	179.75	10,559.47	286.25	-100.39	-286.68	12.00	12.00	0.00
10,600.00	24.30	179.75	10,582.51	276.56	-100.34	-276.99	12.00	12.00	0.00
10,625.00	27.30	179.75	10,605.02	265.68	-100.30	-266.11	12.00	12.00	0.00
10,650.00	30.30	179.75	10,626.92	253.63	-100.24	-254.07	12.00	12.00	0.00
10,675.00	33.30	179.75	10,648.17	240.46	-100.19	-240.89	12.00	12.00	0.00
10,700.00	36.30	179.75	10,668.69	226.19	-100.12	-226.63	12.00	12.00	0.00
10,725.00	39.30	179.75	10,688.44	210.87	-100.06	-211.30	12.00	12.00	0.00
10,750.00	42.30	179.75	10,707.36	194.54	-99.99	-194.97	12.00	12.00	0.00
10,775.00	45.30	179.75	10,725.40	177.23	-99.91	-177.67	12.00	12.00	0.00
FTP (North Lea 10 Fed Com #3H)									
10,800.00	48.30	179.75	10,742.52	159.01	-99.83	-159.44	12.00	12.00	0.00
10,825.00	51.30	179.75	10,758.65	139.92	-99.75	-140.35	12.00	12.00	0.00
10,850.00	54.30	179.75	10,773.76	120.00	-99.66	-120.44	12.00	12.00	0.00
10,875.00	57.30	179.75	10,787.81	99.33	-99.57	-99.76	12.00	12.00	0.00
10,900.00	60.30	179.75	10,800.76	77.95	-99.48	-78.38	12.00	12.00	0.00
10,925.00	63.30	179.75	10,812.57	55.92	-99.38	-56.35	12.00	12.00	0.00
10,950.00	66.30	179.75	10,823.21	33.30	-99.28	-33.73	12.00	12.00	0.00
10,975.00	69.30	179.75	10,832.65	10.15	-99.18	-10.59	12.00	12.00	0.00
11,000.00	72.30	179.75	10,840.87	-13.45	-99.08	13.02	12.00	12.00	0.00
11,025.00	75.30	179.75	10,847.84	-37.46	-98.97	37.03	12.00	12.00	0.00
11,050.00	78.30	179.75	10,853.55	-61.80	-98.87	61.36	12.00	12.00	0.00
11,075.00	81.30	179.75	10,857.98	-86.40	-98.76	85.97	12.00	12.00	0.00
11,100.00	84.30	179.75	10,861.11	-111.20	-98.65	110.77	12.00	12.00	0.00
11,125.00	87.30	179.75	10,862.94	-136.13	-98.54	135.70	12.00	12.00	0.00
11,143.37	89.51	179.75	10,863.45	-154.49	-98.46	154.06	12.00	12.00	0.00
11,200.00	89.51	179.75	10,863.93	-211.12	-98.22	210.69	0.00	0.00	0.00
11,300.00	89.51	179.75	10,864.79	-311.11	-97.78	310.68	0.00	0.00	0.00
11,400.00	89.51	179.75	10,865.65	-411.11	-97.34	410.68	0.00	0.00	0.00
11,500.00	89.51	179.75	10,866.51	-511.10	-96.91	510.68	0.00	0.00	0.00
11,600.00	89.51	179.75	10,867.37	-611.10	-96.47	610.67	0.00	0.00	0.00
11,700.00	89.51	179.75	10,868.23	-711.09	-96.03	710.67	0.00	0.00	0.00
11,800.00	89.51	179.75	10,869.08	-811.09	-95.60	810.66	0.00	0.00	0.00
11,900.00	89.51	179.75	10,869.94	-911.08	-95.16	910.66	0.00	0.00	0.00
12,000.00	89.51	179.75	10,870.80	-1,011.08	-94.72	1,010.66	0.00	0.00	0.00
12,100.00	89.51	179.75	10,871.66	-1,111.08	-94.29	1,110.65	0.00	0.00	0.00
12,200.00	89.51	179.75	10,872.52	-1,211.07	-93.85	1,210.65	0.00	0.00	0.00
12,300.00	89.51	179.75	10,873.38	-1,311.07	-93.41	1,310.65	0.00	0.00	0.00
12,400.00	89.51	179.75	10,874.23	-1,411.06	-92.98	1,410.64	0.00	0.00	0.00
12,500.00	89.51	179.75	10,875.09	-1,511.06	-92.54	1,510.64	0.00	0.00	0.00
12,600.00	89.51	179.75	10,875.95	-1,611.05	-92.10	1,610.64	0.00	0.00	0.00
12,700.00	89.51	179.75	10,876.81	-1,711.05	-91.67	1,710.63	0.00	0.00	0.00
12,800.00	89.51	179.75	10,877.67	-1,811.04	-91.23	1,810.63	0.00	0.00	0.00
12,900.00	89.51	179.75	10,878.53	-1,911.04	-90.79	1,910.62	0.00	0.00	0.00
13,000.00	89.51	179.75	10,879.38	-2,011.03	-90.36	2,010.62	0.00	0.00	0.00
13,100.00	89.51	179.75	10,880.24	-2,111.03	-89.92	2,110.62	0.00	0.00	0.00
13,200.00	89.51	179.75	10,881.10	-2,211.02	-89.48	2,210.61	0.00	0.00	0.00
13,300.00	89.51	179.75	10,881.96	-2,311.02	-89.05	2,310.61	0.00	0.00	0.00

LEAM Drilling Systems

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well #3H
Company:	Read & Stevens, Inc.	TVD Reference:	GE 3637.8' + KB 20' @ 3657.80usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GE 3637.8' + KB 20' @ 3657.80usft
Site:	North Lea 10 Fed Com	North Reference:	Grid
Well:	#3H	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)
13,400.00	89.51	179.75	10,882.82	-2,411.02	-88.61	2,410.61	0.00	0.00	0.00
13,500.00	89.51	179.75	10,883.68	-2,511.01	-88.17	2,510.60	0.00	0.00	0.00
13,600.00	89.51	179.75	10,884.54	-2,611.01	-87.74	2,610.60	0.00	0.00	0.00
13,700.00	89.51	179.75	10,885.39	-2,711.00	-87.30	2,710.59	0.00	0.00	0.00
13,800.00	89.51	179.75	10,886.25	-2,811.00	-86.87	2,810.59	0.00	0.00	0.00
13,900.00	89.51	179.75	10,887.11	-2,910.99	-86.43	2,910.59	0.00	0.00	0.00
14,000.00	89.51	179.75	10,887.97	-3,010.99	-85.99	3,010.58	0.00	0.00	0.00
14,100.00	89.51	179.75	10,888.83	-3,110.98	-85.56	3,110.58	0.00	0.00	0.00
14,200.00	89.51	179.75	10,889.69	-3,210.98	-85.12	3,210.58	0.00	0.00	0.00
14,300.00	89.51	179.75	10,890.54	-3,310.97	-84.68	3,310.57	0.00	0.00	0.00
14,400.00	89.51	179.75	10,891.40	-3,410.97	-84.25	3,410.57	0.00	0.00	0.00
14,500.00	89.51	179.75	10,892.26	-3,510.96	-83.81	3,510.57	0.00	0.00	0.00
14,600.00	89.51	179.75	10,893.12	-3,610.96	-83.37	3,610.56	0.00	0.00	0.00
14,700.00	89.51	179.75	10,893.98	-3,710.96	-82.94	3,710.56	0.00	0.00	0.00
14,800.00	89.51	179.75	10,894.84	-3,810.95	-82.50	3,810.55	0.00	0.00	0.00
14,900.00	89.51	179.75	10,895.69	-3,910.95	-82.06	3,910.55	0.00	0.00	0.00
15,000.00	89.51	179.75	10,896.55	-4,010.94	-81.63	4,010.55	0.00	0.00	0.00
15,100.00	89.51	179.75	10,897.41	-4,110.94	-81.19	4,110.54	0.00	0.00	0.00
15,200.00	89.51	179.75	10,898.27	-4,210.93	-80.75	4,210.54	0.00	0.00	0.00
15,300.00	89.51	179.75	10,899.13	-4,310.93	-80.32	4,310.54	0.00	0.00	0.00
15,400.00	89.51	179.75	10,899.99	-4,410.92	-79.88	4,410.53	0.00	0.00	0.00
15,500.00	89.51	179.75	10,900.85	-4,510.92	-79.44	4,510.53	0.00	0.00	0.00
15,600.00	89.51	179.75	10,901.70	-4,610.91	-79.01	4,610.52	0.00	0.00	0.00
15,700.00	89.51	179.75	10,902.56	-4,710.91	-78.57	4,710.52	0.00	0.00	0.00
15,751.06	89.51	179.75	10,903.00	-4,761.97	-78.35	4,761.58	0.00	0.00	0.00
PBHL (North Lea 10 Fed Com #3H)									

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 t - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	580,620.60	782,835.78	32° 35' 37.435 N	103° 32' 57.091 W
FTP (North Lea 10 Fed t - plan misses target center by 197.47usft at 10775.00usft MD (10725.40 TVD, 177.23 N, -99.91 E) - Point	0.00	0.00	10,863.00	318.87	-100.53	580,939.48	782,735.25	32° 35' 40.597 N	103° 32' 58.238 W
PBHL (North Lea 10 Fec - plan hits target center - Point	0.00	0.01	10,903.00	-4,761.97	-78.35	575,858.64	782,757.44	32° 34' 50.323 N	103° 32' 58.416 W