

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.
65375A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
LEA UNIT 62H

2. Name of Operator

LEGACY RESERVES OPERATING LP

Contact: MATT DICKSON

E-Mail: mdickson@legacyp.com

9. API Well No.

30-025-43247-00-X1

3a. Address

303 W WALL SUITE 1600
MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-689-5200

10. Field and Pool or Exploratory Area
LEA

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

Sec 19 T20S R35E NESW 2270FSL 2560FWL

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.

Legacy Reserves Operating respectfully request approval to deviate from the drilling program outlined in the approved APD in the following manner:

1. Drill 8 3/4" pilot hole to approximately 11,800'
2. Run OH wireline logs
3. Plug back with cement (see below for cement details)
4. At this point, proceed with the approved drilling program

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

The approved surface, intermediate and production casing/cement program will not be altered as far as size, grade, setting depth or volumes due to this request.

- See attachment for updated TWD, directional plan & pilot hole information

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

Electronic Submission #364285 verified by the BLM Well Information System

For LEGACY RESERVES OPERATING LP, sent to the Hobbs

Committed to AFMSS for processing by MUSTAFA HAQUE on 01/24/2017 (17MH0017SE)

Name (Printed/Typed) MATT DICKSON

Title DRILLING ENGINEER

Signature (Electronic Submission)

Date 01/19/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE

Title PETROLEUM ENGINEER

Date 01/31/2017

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

**BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE**

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 *****K2*

Additional data for EC transaction #364285 that would not fit on the form

32. Additional remarks, continued

8 3/4" Open-Hole Plug Cement Details

Plug 900 sx (50% excess)

Class-H Cement

(17.50 ppg, 0.94 cfps, 5.11 gps mix-water)

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Legacy Reserves Operating, L.P.
LEASE NO.:	NMLC065375A
WELL NAME & NO.:	62H-Lea Unit
SURFACE HOLE FOOTAGE:	2270'/S & 2560'/W
BOTTOM HOLE FOOTAGE:	330'/N & 1980'/W
LOCATION:	Section 19, T.20 S., R.35 E., NMPM
COUNTY:	Lea County, New Mexico

All previous COAs still apply, except for the following –

Pilot hole is required to have a plug at the bottom of the hole. The BLM is to be contacted (575-361-2822) prior to tag of bottom plug, which must be a minimum of 220' in length. The Wolfcamp plug from 11,580' – 11,800' needs to be tagged. The kick-off plug depth interval is from 10,600' – 11,350'. Operator can set one plug from bottom of pilot hole to kick-off point and save the WOC time for tagging the first plug. Note plug tops on subsequent drilling report.

MHH 1312017



Haque, Mustafa <mhaque@blm.gov>

Lea Unit #62H - Pilot Hole

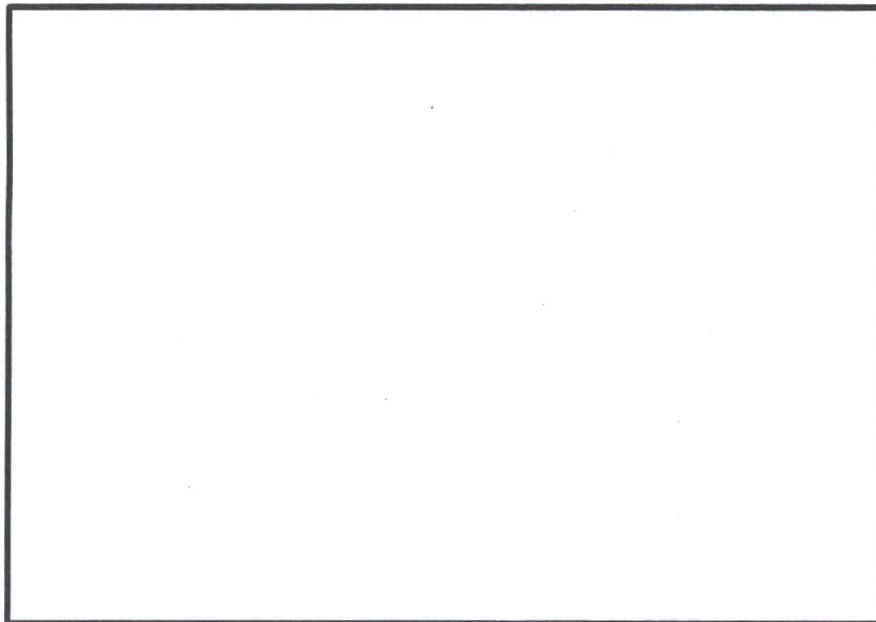
Matthew C Dickson <mdickson@legacylp.com>
To: "Haque, Mustafa" <mhaque@blm.gov>

Thu, Jan 26, 2017 at 1:53 PM

Mr. Haque,

I apologize for the delayed response, I have been out in the field. After further discussions with our cementing company, Legacy Reserves has revised our pilot hole plugging procedure in order to improve the process. The decision was made to pump the plug as a two-part procedure, one part to act as an isolation plug or barrier to the bottom of the 3rd BS and the top of the Wolfcamp. The second part is to act as our "kick-off plug". We have also reviewed our preliminary directional plan and have revised our kick-off depth. We will be kicking off at approximately 11,000' MD and landing at about 11,550' TVD. This is based upon local offset wells that are producing from the 3rd Bone Spring. There are liable to be some slight modifications made to this directional plan based on our pilot hole logging results, but I will be more than happy to share those with you at that time. I have included the revised cement program as well as the attached updated directional plan. Please let me know if there is any additional information you may need.

The top of the Wolfcamp based on offset data, is approximately 11,600' TVD. Our proposed pilot hole TD of 11,800' enables us room for the logging tools to successfully read through the entire 3rd Bone Spring formation so we can have a clear understanding of the lithology.



8-3/4" Pilot Hole Cement Plug Procedure:

Isolation Plug~~11,600'~~ ^{11,580'}

MD – 11,800' MD (50% Excess) → Tag

110 sx Class-H w/ 0.3% PF-13 (Retarder)

Density: 15.6 ppg

Yield: 1.18 cfps

Mix-water Required: 5.214 gps

Kick-off Plug

10,600' MD – 11,350' MD (50% Excess)

500 sx Class-H w/ 0.5% PF-65 (Dispersant) + 0.3% PF-13 (Retarder)

Density: 17.5 ppg

Yield: 0.94 cfps

Mix-water Required: 3.354 gps

Thank you

Matt Dickson

From: Haque, Mustafa [mailto:mhaque@blm.gov]**Sent:** Tuesday, January 24, 2017 3:39 PM

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2 attachments **Legacy_LeaUnit62H_PrelimPlanA_36x48WM.pdf**
82K **Legacy_LeaUnit62H_PrelimPlanA_WPReport.pdf**
72K



Legacy Reserves
Lea County, NM (NAD27)
Lea Unit
62H
Prelim Plan A
McVay 4



US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

RKB Elevation: GL 3688'+KB 20' @ 3708.00usft (McVay 4)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	567540.50	757874.60	32° 33' 26.964 N	103° 29' 46.949 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	10982.00	0.00	0.00	10982.00	0.00	0.00	0.00	0.00
3	11897.00	91.50	337.84	11554.78	544.53	-221.77	10.00	560.56
4	12556.73	91.50	357.64	11537.32	1185.78	-361.13	3.00	1210.92
5	19332.62	91.50	357.64	11360.09	7953.60	-640.20	0.00	7979.32

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Plat BHL - Lea Unit 62H	11360.09	7953.60	-640.20	575494.10	757234.40

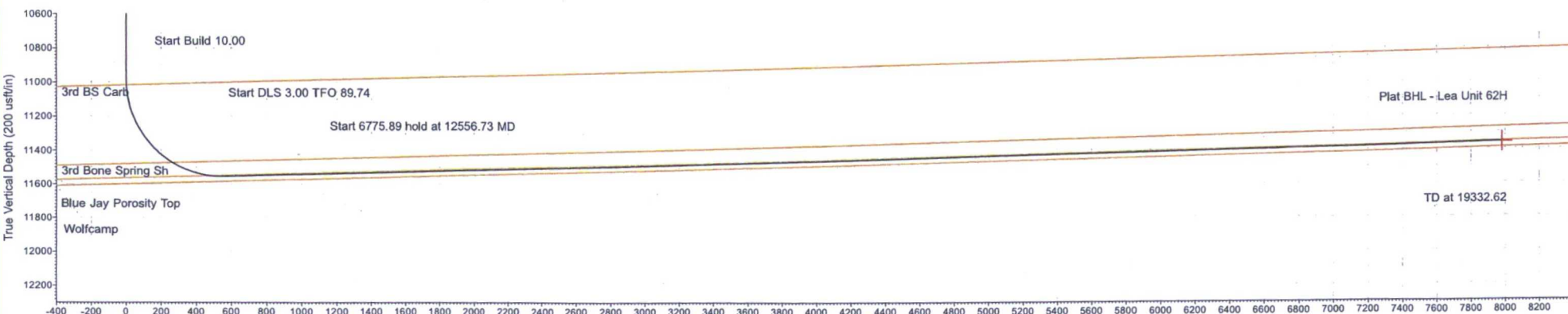
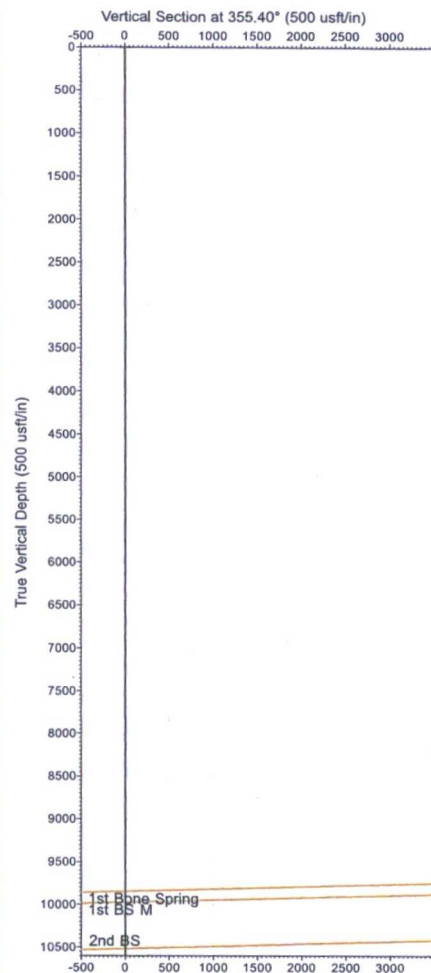
Azimuth Corrections

Total Magnetic Corr. (M to G): 6.33°

Declination (M to T): 6.78° East



Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.33°
Magnetic Field
Strength: 48341.3anT
Dip Angle: 60.57°
Date: 1/20/2017
Model: HDGM



36" x 48"

Vertical Section at 355.40° (200 usft/in)

Database: WellPlanner1
Company: Legacy Reserves
Project: Lea County, NM (NAD27)
Site: Lea Unit
Well: 62H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 62H
TVD Reference: GL 3688'+KB 20' @ 3708.00usft (McVay 4)
MD Reference: GL 3688'+KB 20' @ 3708.00usft (McVay 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD27)

Map System: US State Plane 1927 (Exact solution) System Datum: Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

Site Lea Unit

Site Position: Northing: 567,540.50 usft Latitude: 32° 33' 26.964 N
From: Map Easting: 757,874.60 usft Longitude: 103° 29' 46.949 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.45 °

Well 62H

Well Position +N/-S 0.00 usft Northing: 567,540.50 usft Latitude: 32° 33' 26.964 N
+E/-W 0.00 usft Easting: 757,874.60 usft Longitude: 103° 29' 46.949 W
Position Uncertainty 0.00 usft Wellhead Elevation: Ground Level: 3,688.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/20/2017	6.78	60.57	48,341.30

Design Prelim Plan A

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	355.40

Plan Survey Tool Program Date 1/20/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,332.62	Prelim Plan A (OH)	

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	
10,982.00	0.00	0.00	10,982.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,897.00	91.50	337.84	11,554.76	544.53	-221.77	10.00	10.00	0.00	337.84	
12,556.73	91.50	357.64	11,537.32	1,185.78	-361.13	3.00	0.00	3.00	89.74	
19,332.62	91.50	357.64	11,360.09	7,953.60	-640.20	0.00	0.00	0.00	0.00	Plat BHL - Lea Unit 62

Database: WellPlanner1
Company: Legacy Reserves
Project: Lea County, NM (NAD27)
Site: Lea Unit
Well: 62H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 62H
TVD Reference: GL 3688'+KB 20' @ 3708.00usft (McVay 4)
MD Reference: GL 3688'+KB 20' @ 3708.00usft (McVay 4)
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
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

Database: WellPlanner1
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Site: Lea Unit
Well: 62H
Wellbore: OH
Design: Prelim Plan A

Local Co-ordinate Reference: Well 62H
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MD Reference: GL 3688'+KB 20' @ 3708.00usft (McVay 4)
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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)
5,400.00	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	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00

Database: WellPlanner1
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Wellbore: OH
Design: Prelim Plan A

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MD Reference: GL 3688'+KB 20' @ 3708.00usft (McVay 4)
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)
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,982.00	0.00	0.00	10,982.00	0.00	0.00	0.00	0.00	0.00	0.00
11,000.00	1.80	337.84	11,000.00	0.26	-0.11	0.27	10.00	10.00	0.00
11,050.00	6.80	337.84	11,049.84	3.73	-1.52	3.84	10.00	10.00	0.00
11,100.00	11.80	337.84	11,099.17	11.21	-4.57	11.54	10.00	10.00	0.00
11,150.00	16.80	337.84	11,147.60	22.65	-9.22	23.31	10.00	10.00	0.00
11,200.00	21.80	337.84	11,194.78	37.95	-15.46	39.07	10.00	10.00	0.00
11,250.00	26.80	337.84	11,240.33	57.00	-23.21	58.68	10.00	10.00	0.00
11,300.00	31.80	337.84	11,283.92	79.65	-32.44	82.00	10.00	10.00	0.00
11,350.00	36.80	337.84	11,325.22	105.74	-43.07	108.85	10.00	10.00	0.00
11,400.00	41.80	337.84	11,363.90	135.06	-55.01	139.04	10.00	10.00	0.00
11,450.00	46.80	337.84	11,399.67	167.39	-68.17	172.32	10.00	10.00	0.00
11,500.00	51.80	337.84	11,432.26	202.49	-82.47	208.45	10.00	10.00	0.00
11,550.00	56.80	337.84	11,461.43	240.08	-97.78	247.15	10.00	10.00	0.00
11,600.00	61.80	337.84	11,486.95	279.88	-113.99	288.12	10.00	10.00	0.00
11,650.00	66.80	337.84	11,508.63	321.60	-130.98	331.06	10.00	10.00	0.00
11,700.00	71.80	337.84	11,526.29	364.90	-148.62	375.64	10.00	10.00	0.00
11,750.00	76.80	337.84	11,539.82	409.46	-166.77	421.52	10.00	10.00	0.00
11,800.00	81.80	337.84	11,549.10	454.95	-185.29	468.35	10.00	10.00	0.00
11,850.00	86.80	337.84	11,554.06	501.01	-204.05	515.77	10.00	10.00	0.00
11,897.00	91.50	337.84	11,554.76	544.53	-221.77	560.56	10.00	10.00	0.00
11,900.00	91.50	337.93	11,554.68	547.30	-222.90	563.42	3.00	0.01	3.00
12,000.00	91.51	340.93	11,552.05	640.89	-258.02	659.51	3.00	0.01	3.00
12,100.00	91.52	343.93	11,549.41	736.18	-288.19	756.92	3.00	0.01	3.00
12,200.00	91.52	346.93	11,546.76	832.92	-313.33	855.36	3.00	0.00	3.00
12,300.00	91.52	349.93	11,544.10	930.84	-333.37	954.58	3.00	0.00	3.00
12,400.00	91.52	352.94	11,541.45	1,029.68	-348.26	1,054.29	3.00	-0.01	3.00
12,500.00	91.51	355.94	11,538.81	1,129.16	-357.95	1,154.23	3.00	-0.01	3.00
12,556.73	91.50	357.64	11,537.32	1,185.78	-361.13	1,210.92	3.00	-0.01	3.00
12,600.00	91.50	357.64	11,536.19	1,229.00	-362.91	1,254.15	0.00	0.00	0.00
12,700.00	91.50	357.64	11,533.58	1,328.88	-367.03	1,354.04	0.00	0.00	0.00
12,800.00	91.50	357.64	11,530.96	1,428.76	-371.15	1,453.93	0.00	0.00	0.00
12,900.00	91.50	357.64	11,528.35	1,528.64	-375.27	1,553.82	0.00	0.00	0.00
13,000.00	91.50	357.64	11,525.73	1,628.52	-379.39	1,653.70	0.00	0.00	0.00
13,100.00	91.50	357.64	11,523.11	1,728.41	-383.50	1,753.59	0.00	0.00	0.00
13,200.00	91.50	357.64	11,520.50	1,828.29	-387.62	1,853.48	0.00	0.00	0.00
13,300.00	91.50	357.64	11,517.88	1,928.17	-391.74	1,953.37	0.00	0.00	0.00
13,400.00	91.50	357.64	11,515.27	2,028.05	-395.86	2,053.26	0.00	0.00	0.00
13,500.00	91.50	357.64	11,512.65	2,127.93	-399.98	2,153.15	0.00	0.00	0.00
13,600.00	91.50	357.64	11,510.04	2,227.81	-404.10	2,253.04	0.00	0.00	0.00
13,700.00	91.50	357.64	11,507.42	2,327.69	-408.22	2,352.93	0.00	0.00	0.00
13,800.00	91.50	357.64	11,504.81	2,427.57	-412.33	2,452.82	0.00	0.00	0.00
13,900.00	91.50	357.64	11,502.19	2,527.45	-416.45	2,552.71	0.00	0.00	0.00
14,000.00	91.50	357.64	11,499.57	2,627.33	-420.57	2,652.60	0.00	0.00	0.00
14,100.00	91.50	357.64	11,496.96	2,727.21	-424.69	2,752.49	0.00	0.00	0.00
14,200.00	91.50	357.64	11,494.34	2,827.10	-428.81	2,852.38	0.00	0.00	0.00
14,300.00	91.50	357.64	11,491.73	2,926.98	-432.93	2,952.27	0.00	0.00	0.00
14,400.00	91.50	357.64	11,489.11	3,026.86	-437.05	3,052.16	0.00	0.00	0.00
14,500.00	91.50	357.64	11,486.50	3,126.74	-441.16	3,152.05	0.00	0.00	0.00
14,600.00	91.50	357.64	11,483.88	3,226.62	-445.28	3,251.94	0.00	0.00	0.00
14,700.00	91.50	357.64	11,481.26	3,326.50	-449.40	3,351.83	0.00	0.00	0.00
14,800.00	91.50	357.64	11,478.65	3,426.38	-453.52	3,451.72	0.00	0.00	0.00
14,900.00	91.50	357.64	11,476.03	3,526.26	-457.64	3,551.61	0.00	0.00	0.00

Database: WellPlanner1
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Design: Prelim Plan A

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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)
15,000.00	91.50	357.64	11,473.42	3,626.14	-461.76	3,651.49	0.00	0.00	0.00
15,100.00	91.50	357.64	11,470.80	3,726.02	-465.88	3,751.38	0.00	0.00	0.00
15,200.00	91.50	357.64	11,468.19	3,825.90	-469.99	3,851.27	0.00	0.00	0.00
15,300.00	91.50	357.64	11,465.57	3,925.79	-474.11	3,951.16	0.00	0.00	0.00
15,400.00	91.50	357.64	11,462.95	4,025.67	-478.23	4,051.05	0.00	0.00	0.00
15,500.00	91.50	357.64	11,460.34	4,125.55	-482.35	4,150.94	0.00	0.00	0.00
15,600.00	91.50	357.64	11,457.72	4,225.43	-486.47	4,250.83	0.00	0.00	0.00
15,700.00	91.50	357.64	11,455.11	4,325.31	-490.59	4,350.72	0.00	0.00	0.00
15,800.00	91.50	357.64	11,452.49	4,425.19	-494.71	4,450.61	0.00	0.00	0.00
15,900.00	91.50	357.64	11,449.88	4,525.07	-498.82	4,550.50	0.00	0.00	0.00
16,000.00	91.50	357.64	11,447.26	4,624.95	-502.94	4,650.39	0.00	0.00	0.00
16,100.00	91.50	357.64	11,444.64	4,724.83	-507.06	4,750.28	0.00	0.00	0.00
16,200.00	91.50	357.64	11,442.03	4,824.71	-511.18	4,850.17	0.00	0.00	0.00
16,300.00	91.50	357.64	11,439.41	4,924.59	-515.30	4,950.06	0.00	0.00	0.00
16,400.00	91.50	357.64	11,436.80	5,024.48	-519.42	5,049.95	0.00	0.00	0.00
16,500.00	91.50	357.64	11,434.18	5,124.36	-523.54	5,149.84	0.00	0.00	0.00
16,600.00	91.50	357.64	11,431.57	5,224.24	-527.65	5,249.73	0.00	0.00	0.00
16,700.00	91.50	357.64	11,428.95	5,324.12	-531.77	5,349.62	0.00	0.00	0.00
16,800.00	91.50	357.64	11,426.34	5,424.00	-535.89	5,449.51	0.00	0.00	0.00
16,900.00	91.50	357.64	11,423.72	5,523.88	-540.01	5,549.39	0.00	0.00	0.00
17,000.00	91.50	357.64	11,421.10	5,623.76	-544.13	5,649.28	0.00	0.00	0.00
17,100.00	91.50	357.64	11,418.49	5,723.64	-548.25	5,749.17	0.00	0.00	0.00
17,200.00	91.50	357.64	11,415.87	5,823.52	-552.37	5,849.06	0.00	0.00	0.00
17,300.00	91.50	357.64	11,413.26	5,923.40	-556.48	5,948.95	0.00	0.00	0.00
17,400.00	91.50	357.64	11,410.64	6,023.28	-560.60	6,048.84	0.00	0.00	0.00
17,500.00	91.50	357.64	11,408.03	6,123.17	-564.72	6,148.73	0.00	0.00	0.00
17,600.00	91.50	357.64	11,405.41	6,223.05	-568.84	6,248.62	0.00	0.00	0.00
17,700.00	91.50	357.64	11,402.79	6,322.93	-572.96	6,348.51	0.00	0.00	0.00
17,800.00	91.50	357.64	11,400.18	6,422.81	-577.08	6,448.40	0.00	0.00	0.00
17,900.00	91.50	357.64	11,397.56	6,522.69	-581.20	6,548.29	0.00	0.00	0.00
18,000.00	91.50	357.64	11,394.95	6,622.57	-585.31	6,648.18	0.00	0.00	0.00
18,100.00	91.50	357.64	11,392.33	6,722.45	-589.43	6,748.07	0.00	0.00	0.00
18,200.00	91.50	357.64	11,389.72	6,822.33	-593.55	6,847.96	0.00	0.00	0.00
18,300.00	91.50	357.64	11,387.10	6,922.21	-597.67	6,947.85	0.00	0.00	0.00
18,400.00	91.50	357.64	11,384.48	7,022.09	-601.79	7,047.74	0.00	0.00	0.00
18,500.00	91.50	357.64	11,381.87	7,121.97	-605.91	7,147.63	0.00	0.00	0.00
18,600.00	91.50	357.64	11,379.25	7,221.86	-610.03	7,247.52	0.00	0.00	0.00
18,700.00	91.50	357.64	11,376.64	7,321.74	-614.15	7,347.41	0.00	0.00	0.00
18,800.00	91.50	357.64	11,374.02	7,421.62	-618.26	7,447.30	0.00	0.00	0.00
18,900.00	91.50	357.64	11,371.41	7,521.50	-622.38	7,547.18	0.00	0.00	0.00
19,000.00	91.50	357.64	11,368.79	7,621.38	-626.50	7,647.07	0.00	0.00	0.00
19,100.00	91.50	357.64	11,366.17	7,721.26	-630.62	7,746.96	0.00	0.00	0.00
19,200.00	91.50	357.64	11,363.56	7,821.14	-634.74	7,846.85	0.00	0.00	0.00
19,300.00	91.50	357.64	11,360.94	7,921.02	-638.86	7,946.74	0.00	0.00	0.00
19,332.62	91.50	357.64	11,360.09	7,953.60	-640.20	7,979.32	0.00	0.00	0.00

Plat BHL - Lea Unit 62H

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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
9,845.00	9,845.00	1st Bone Spring		-1.50	355.40
9,973.00	9,973.00	1st BS M		-1.50	355.40
10,519.00	10,519.00	2nd BS		-1.50	355.40
11,018.00	11,017.97	3rd BS Carb		-1.50	355.40
11,573.76	11,474.03	3rd Bone Spring Sh		-1.50	355.40
11,817.29	11,551.31	Blue Jay Porosity Top		-1.50	355.40