

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Report

Well Name: J L KEEL B Well Location: T17S / R31E / SEC 8 / County or Parish/State: EDDY /

SWSE / 32.8436052 / -103.8897573 NM

Well Number: 4 Type of Well: INJECTION - ENHANCED Allottee or Tribe Name:

RECOVERY

Lease Number: NMLC029435B Unit or CA Name: Unit or CA Number:

US Well Number: 3001505105 **Operator:** LH OPERATING LLC

Notice of Intent

Sundry ID: 2793245

Type of Submission: Notice of Intent

Type of Action: Workover Operations

Date Sundry Submitted: 06/03/2024 Time Sundry Submitted: 06:03

Date proposed operation will begin: 06/17/2024

Procedure Description: 1. Move in rig up workover rig. Bleed off well head pressure. ND wellhead and NU BOP. 2. Unhook injection line and meter run. 3. ND wellhead and NU BOP. 4. Unset packer. Pull out of hole with tubing. Inspect tubing as pulling out of hole. 5. Send packer to shop for redress or replace with new packer based on condition. 6. Replace tubing as needed from visual inspection. 7. Pick up reconditioned or new packer and run in hole on the tubing while testing the tubing below the slips to 4500 psi (test tools to be coated). Replace tubing as needed. 8. Once on depth above perforations, circulate in packer fluid (corrosion inhibitor and biocide) mixed in fresh water. 9. Set packer. ND BOP and NU wellhead. Install meter run. 10. Notify NMOCD field representative to witness test. Perform mechanical integrity test. Return to water injection.

Surface Disturbance

Is any additional surface disturbance proposed?: No

Page 1 of 2

reived by OCD: 6/7/2024 6:42:59 AM Well Name: J L KEEL B

Well Location: T17S / R31E / SEC 8 /

SWSE / 32.8436052 / -103.8897573

County or Parish/State: EDD 200

Type of Well: INJECTION - ENHANCED Allottee or Tribe Name:

Lease Number: NMLC029435B **Unit or CA Name:** **Unit or CA Number:**

US Well Number: 3001505105

Operator: LH OPERATING LLC

Conditions of Approval

Specialist Review

Well Number: 4

Workover or Vertical Deepen COA 20240606222846.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MICHAEL BURTON Signed on: JUN 03, 2024 06:03 AM

Name: LH OPERATING LLC Title: Environmental Manager

Street Address: 3730 KIRBY DR SUITE 1200

City: HOUSTON State: TX

Phone: (575) 499-5306

Email address: MIKE@LHOPERATING.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

Signature: Jonathon Shepard

BLM POC Name: JONATHON W SHEPARD BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345972 BLM POC Email Address: jshepard@blm.gov

Disposition: Approved Disposition Date: 06/06/2024

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

	FORM APPROVED
	OMB No. 1004-0137
E	expires: October 31, 2021

EMENT	5.	Lease Seria	1

BURI	EAU OF LAND MANAGEMENT		3. Lease Schai ivo.	
Do not use this f	OTICES AND REPORTS ON Worm for proposals to drill or to Jse Form 3160-3 (APD) for suc	6. If Indian, Allottee o	r Tribe Name	
abandoned wen.	ose romi oroc-o (Ar b) for suc	п ргорозиіз.	7 If II: 4 - f C A / A	None and None
	TRIPLICATE - Other instructions on page	9 2	/. If Unit of CA/Agree	ement, Name and/or No.
1. Type of Well			8. Well Name and No.	
Oil Well Gas W	Vell Other			
2. Name of Operator			9. API Well No.	
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or I	Exploratory Area
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)		11. Country or Parish,	State
12. CHE	CK THE APPROPRIATE BOX(ES) TO INC	DICATE NATURE OF NO	TICE, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION		TYPE OF A	CTION	
Notice of Intent	Acidize Deep Alter Casing Hydra	=	oduction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair New	Construction Re	ecomplete	Other
Subsequent Report	Change Plans Plug	and Abandon Te	mporarily Abandon	
Final Abandonment Notice	Convert to Injection Plug	Back W	ater Disposal	
completed. Final Abandonment Not is ready for final inspection.)	ns. If the operation results in a multiple comices must be filed only after all requirements			
4. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Title		
Signature		Date		
	THE SPACE FOR FEDE	ERAL OR STATE C	FICE USE	
Approved by			I	
rr		Title	I	Date
	ned. Approval of this notice does not warrant quitable title to those rights in the subject lead duct operations thereon.			
	B U.S.C Section 1212, make it a crime for an		villfully to make to any de	partment or agency of the United States

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Location of Well

 $0. \ SHL: \ SWSE \ / \ 660 \ FSL \ / \ 1980 \ FEL \ / \ TWSP: \ 17S \ / \ RANGE: \ 31E \ / \ SECTION: \ 8 \ / \ LAT: \ 32.8436052 \ / \ LONG: \ -103.8897573 \ (\ TVD: \ 0 \ feet, \ MD: \ 0 \ feet)$ BHL: $\ SWSE \ / \ 660 \ FSL \ / \ 1980 \ FEL \ / \ TWSP: \ 17S \ / \ SECTION: \ / \ LAT: \ 0.0 \ / \ LONG: \ 0.0 \ (\ TVD: \ 0 \ feet, \ MD: \ 0 \ feet)$

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

Conditions of Approval for Workover/Deepening of a Well

- 1. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-689-5981
- 2. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
- 3. Cement: Notify BLM if cement fails to circulate.
- 4. <u>Subsequent Reporting:</u> Within 30 days after work is completed, file a Subsequent Report (Form 3160-5) to BLM. The report should give in detail the manner in which the work was carried out. <u>Show date work was completed</u>. If producing a new zone, submit a Completion Report (Form 3160-4) with the Subsequent Report.
- 5. <u>Trash</u>: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.
- 6. If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken: From March 1st through June 15th annually, activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.

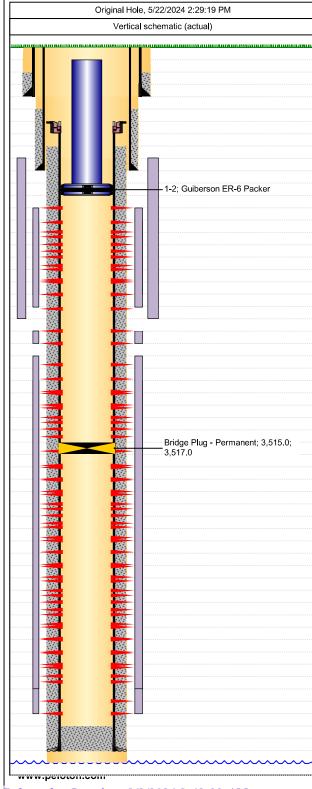
WellView[®]

Downhole Well Profile

Well Name: KEEL J L B 4 INJ

API/UWI 3001505105		Field Name PBNM - PB-GRAYBURG WEST CENTRAL	 State/Province NM	Well Configuration Type
Original KB Elevation (ft) 3,743.00	KB-Tubing Head Distance (ft)	Initial Spud Date 2/8/1945 00:00	PBTD (All) (ftKB) Original Hole - 3,715.0	Total Depth All (TVD) (ftKB)

	Гуре						
t	Des	Make	Model	WP (psi)	Service	WP Top (psi)	Bore Min (in)
Γ							



Casing Strings											
Csg Des		-	OD (in)	Wt/Ler	ı (İ b/ft)		Grade	T	op Thread	Set De	pth (ftKB)
Surface			8 5/8								541.0
Intermediate				7							2,897.0
Production		4 1/2		2	9.50	J-5	55			(3,728.0
Perforations											
Date	To	p (ftKE		Btm	(ftKB)				Linked Zone)	
7/22/1989	2,978.0						Graybu	urg			
5/15/1966	3,004.3				3,012						
5/15/1966			,040.3		3,050						
5/15/1966			,226.3		3,238						
7/19/1989		3	,291.0		3,41	7.0	Graybu	ırg			
7/17/1989		3	475.3		3,666	3.0	Graybu	ırg			
5/15/1966		3	480.3		3,482	2.0					
5/15/1966			488.3		3,492	2.0					
5/15/1966		3	,527.3		3,529	9.0					
5/15/1966		3	,546.3		3,552	2.0	.0				
5/15/1966		3	,556.3		3,558.0						
5/15/1966		3	,572.3	572.3		3.0					
5/15/1966		3,	578.3		3,580	0.0					
5/15/1966		3	,603.3	603.3 3,6							
5/15/1966		3,617.3			3,624.0						
5/15/1966		3	3,652.3		3,655.0						
5/15/1966		3,	,660.3		3,663	3.0					
5/15/1966		3	678.3		3,682.0						
Tubing Strings											
Tubing Description Tubing - Production		n Date					th (ft)		Set Depth 2,927.0	ftKB)	
Item Des				lake	2,942.00 Model			OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing			THUIS .					2 3/8	, ,		2,939
											.00
Guiberson ER-6 Pac	Guiberson ER-6 Packer							4			3.00
Rod Strings											
Rod Description	Rod Description Run Date				String Length (ft)			Set Depth (ftKB)			
Item Des		Jts	M	lake		Mod	el	OD (in)	Wt (lb/ft)	Grade	Len (ft)
		l									

Page 1/1 Report Printed: 5/22/2024

Released to Imaging: 8/2/2024 8:42:33 AM

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

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**

CONDITIONS

Action 351863

CONDITIONS

Operator:	OGRID:
LH Operating, LLC	329319
3730 Kirby Drive	Action Number:
Houston, TX 77098	351863
	Action Type:
	[C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	Ensure that the setting depth of the packer is not more than 100 ft above the top part of the injection interval. Should the workover require tubing replacement, the same size tube shall be replaced as prescribed in the respective order.	8/2/2024