



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

# Well Completion Print

08/23/2023

<b>Operator Name</b> KAISER FRANCIS OIL COMPANY	<b>Well Name</b> RED HILLS FEDERAL	<b>Well Number</b> 503H	<b>US Well Number</b> 3002546489
<b>SHL</b> NESW Lot K Sec 31 25S 33E	<b>County</b> LEA	<b>State</b> NM	<b>Lease Number(s)</b> NMNM015321, NMNM15321
<b>Well Type</b> OIL WELL	<b>Well Status</b> Drilling Well	<b>Agreement Name</b>	<b>Agreement Number(s)</b>
<b>Allottee/Tribe Name</b>	<b>Well Pad Name</b> RED HILLS	<b>Well Pad Number</b> 2	<b>ID</b> 10400041972

## Section 1 - General

**Well Completion Report Id:** 60297**Submission Date:** 04-23-2021**BLM Office:** Carlsbad Field Office**User:** Eric Hansen**Title:** Drilling Engineer**Federal/Indian:** FEDERAL**Lease Number:** NMNM015321**Lease Acres:** 838.8**Agreement in place?:** NO**Federal or Indian Agreement:****Agreement Number:****Agreement Name:****Keep this Well Completion Report confidential?:****APD Operator:** KAISER FRANCIS OIL COMPANY

## Section 2 - Well

**Field/Pool or Exploratory:****Pool Name:** Upper Wolfcamp**Field Name:** WC 025 G-09**Well Type:** OIL WELL**Spud Date:** 11-23-2019**Date Total Measured Depth Reached:** 12-13-2019**Drill & Abandon or Ready To Produce:** READY TO**Well Class:** HORIZONTAL

## Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
---	SANDSTONE		3418	0	0	NONE	
RUSTLER	SANDSTONE		2558	860	860	NONE	

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### Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
SALADO	SANDSTONE		2218	1200	1200	NONE	
TOP SALT	SALT		1418	2000	2000	NONE	
BASE OF SALT	SALT		-1032	4450	4450	NONE	
LAMAR	ANHYDRITE, LIMESTONE, SANDSTONE		-1332	4750	4750	NATURAL GAS, OIL	
BELL CANYON	SANDSTONE		-1452	4870	4870	NATURAL GAS, OIL	
CHERRY CANYON	SANDSTONE		-2442	5860	5860	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-5182	8600	8600	NATURAL GAS, OIL	
BONE SPRING			-5382	8800	8800	NATURAL GAS, OIL	
AVALON SAND	SANDSTONE, SHALES		-5592	9010	9010	NATURAL GAS, OIL	
BONE SPRING 1ST	LIMESTONE, SHALE		-6532	9950	9950	NATURAL GAS, OIL	
BONE SPRING 2ND	SANDSTONE, SHALES		-7092	10510	10510	NATURAL GAS, OIL	
BONE SPRING LIME	LIMESTONE, SHALE		-7532	10950	10950	NATURAL GAS, OIL	
BONE SPRING 3RD	SANDSTONE, SHALES		-8267	11685	11685	NATURAL GAS, OIL	
WOLFCAMP	SHALES		-8652	12070	12070	NATURAL GAS, OIL	

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### Completion and Completed

### Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM15321	NMNM15321	NEW		DRG	10-04-2019	03-18-2021	WOLFCA MP	12768	20110	Y	.42	1935	OPEN

### Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Total Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	204116	1983975	10/20: Pressure test csg to 11,300#. TCP Stage 1: 19,980'-20,102' O/A w/5, 3 1/8" guns. BD perfs @ 9,012#. Established injection into perfs: 5 BPM @ 9,200# for 30 bbls. SD and isolate well. ISIP 8,431#, 5 min 5,775#, 10 min 5 320# 15 min 5 192# 12/20-1/21: Stage-Frac lateral 12,768'-20,102' O/A in

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### Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
							43 stages w/176,540 gal 15% HCl, 204,116 bbls SW and 286,709 bbls HVFR carrying 1,840,307# 100M and 17 999 449# 40/70 white

### Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1	47	0.8	FLows FROM WELL		SOLD	

### Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	03/23/2021	24	358	1224	2498	3418				4250

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### Well Location

Survey Type: RECTANGULAR

Survey Number: 6210A

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Acres
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0863917	-103.6143183	3418	N/A	N/A	FEDERAL	NMNM15321				2400	FSL	1735	FWL	25S	33E	31	NE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0867815	-103.6130402	-8430	11870	11848	FEDERAL	NMNM15321				2542	FSL	2131	FWL	25S	33E	31	NE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0869406	-103.6129249	-8659	12100	12077	FEDERAL	NMNM15321				2166	FSL	2243	FWL	25S	33E	31	NE
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.065881	-103.612661	-9113	19852	12531	FEDERAL	NMNM15321				213	FSL	2225	FWL	26S	33E	6	SE
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0655708	-103.6126572	-9113	19852	12531	FEDERAL	NMNM15321				156	FSL	1817	FWL	26S	33E	6	SE

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### Casing, Liner and Tubing

#### Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	14.75	0	924	10.75	40.5	J-55		BUTT		
00	INTERMEDIATE	9.875	0	11627	7.625	29.7	HCP-110		BUTT		
00	PRODUCTION	6.75	0	20200	5.5	20	P-110		OTHER	Eagle SF	

#### Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield (cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Halcem	335	1.75	0	Halcem	205	1.35		153.7
00	INTERMEDIATE	2150	Neocem	760	2.73	0	Halcem	100	1.34		1760.1
00	INTERMEDIATE		NeoCem	600	3.52	2150	Halcem	440	1.22		1760.1
00	PRODUCTION		Class H	720	1.53	0	Veracem	875	1.22		386.3

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### Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

### Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. 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 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 Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

**Name:** KAISER FRANCIS OIL COMPANY

**Signed By:** Eric Hansen

**Title:** Drilling Engineer

**Signed on:** 10/17/2022

**Street Address:** 6733 S. Yale Ave.

**City:** Tulsa

**State:** OK

**Zip:** 74121

**Phone:** (918)491-4339

**Email address:** EricH@kfoc.net

### Field

**Representative Name:** Christina Opfer

**Street Address:** PO Box 21468

**City:** Tulsa

**State:** OK

**Zip:** 74121-1468

**Phone:** (918)491-4468

**Extension:**

**Email address:** ChristinaO@kfoc.net

### Attachments

<b>Operator Name</b> KAISER FRANCIS OIL COMPANY	<b>Well Name</b> RED HILLS FEDERAL	<b>Well Number</b> 503H	<b>US Well Number</b> 3002546489
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Red\_Hills\_\_503H\_5inTVD\_20221017151331.pdf

Red\_Hills\_\_503H\_5inMD\_20221017151331.pdf

Red\_Hills\_\_503H\_2inTVD\_20221017151331.pdf

Red\_Hills\_\_503H\_2inMD\_20221017151331.pdf

Red\_Hills\_\_503H\_Final\_Svy\_Report\_\_NAD\_83\_\_20221017151351.pdf

Red\_Hills\_503H\_C\_102\_As\_Drilled\_\_HSU\_20221017151357.pdf

Red\_Hills\_503H\_WBD\_20221017151410.pdf



Well Name ▾	Well Number ▾	US Well Number ▾	Status ▾	Created Date ▾	Date Accepted ▾
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	From: <input type="text" value="mm/dd/yyyy"/> <input type="text"/>	From: <input type="text" value="mm/dd/yyyy"/> <input type="text"/>
				To: <input type="text" value="mm/dd/yyyy"/> <input type="text"/>	To: <input type="text" value="mm/dd/yyyy"/> <input type="text"/>
RED HILLS FEDERAL	405H	3002547038	ACCEPTED	2021-04-22 23:09	2023-08-22 23:08
RED HILLS FEDERAL	501H	3002546422	ACCEPTED	2021-04-22 23:06	2023-08-22 22:56
RED HILLS FEDERAL	506H	3002547189	ACCEPTED	2021-04-22 23:18	2023-08-22 22:49
RED HILLS	102H	3002545384	ACCEPTED	2021-04-22 23:14	2023-08-22 22:41
RED HILLS FEDERAL	503H	3002546489	ACCEPTED	2021-04-22 23:15	2023-08-22 22:38
RED HILLS	402H	3002545387	ACCEPTED	2021-04-15 20:46	2023-08-19 15:21

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 257045

**ACKNOWLEDGMENTS**

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 741211468	OGRID: 12361
	Action Number: 257045
	Action Type: [C-105] Well (Re)Completion (C-105)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
<input type="checkbox"/>	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
<input type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals were added to the fluid used in the completion or recompletion of this well.

Sante Fe Main Office  
Phone: (505) 476-3441

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

CONDITIONS

Action 257045

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 741211468	OGRID: 12361
	Action Number: 257045
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	12/15/2025