



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

Well Completion Print

08/23/2023

Operator Name KAISER FRANCIS OIL COMPANY	Well Name RED HILLS FEDERAL	Well Number 501H	US Well Number 3002546422
SHL Lot 3 Sec 31 25S 33E	County LEA	State NM	Lease Number(s) NMNM015321, NMNM15321
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name RED HILLS	Well Pad Number 1	ID 10400041669

Section 1 - General

Well Completion Report Id: 60290**Submission Date:** 04-29-2021**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:** CONVENTIONAL GAS**Spud Date:** 12-21-2019**Date Total Measured Depth Reached:** 01-18-2020**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
---	OTHER	soil	3407	0	0	NONE	
RUSTLER	ANHYDRITE, SANDSTONE		2547	860	860	NONE	

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Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
SALADO	ANHYDRITE		2207	1200	1200	NONE	
TOP SALT	SALT		1407	2000	2000	NONE	
BASE OF SALT	SALT		-1043	4450	4450	NONE	
LAMAR	ANHYDRITE, SANDSTONE		-1343	4750	4770	NATURAL GAS, OIL	
BELL CANYON	SANDSTONE		-1463	4870	4870	NATURAL GAS, OIL	
CHERRY CANYON	SANDSTONE		-2453	5860	5860	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-5193	8600	8600	NATURAL GAS, OIL	
AVALON SAND	LIMESTONE, SANDSTONE, SHALES		-5657	9064	9113	NATURAL GAS, OIL	
BONE SPRING 1ST	LIMESTONE, SANDSTONE, SHALES		-6647	10054	10103	NATURAL GAS, OIL	
BONE SPRING 2ND	LIMESTONE, SHALES		-7103	10510	10510	NATURAL GAS, OIL	
BONE SPRING 3RD	LIMESTONE, SHALES		-8278	11685	11685	NATURAL GAS, OIL	
WOLFCAMP	SANDSTONE, SHALES		-8759	12166	12223	NATURAL GAS, OIL	

Completion and Completed

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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	X1	1	NMNM15321	NMNM15321	NEW		DRG	01-05-2021	02-04-2021	WOLFCA MP	12567	19677	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	X1	1	Y	FRAC	456156	9999999	10/20: Pressure test csg to 11,400#. Test annulus to 500#. TCP Stage 1: 19,555'-19,677' O/A w/5, 3 1/8" guns. Max rate 12.5 BPM, max pressure 6,620#. Total volume 283 bbls. SD and isolate well. 12/20-1/21: Stage-Frac lateral 12,567'-19,677' O/A in 43 stages w/141,710 gal 15% HCl, 250,075 bbls SW and 202,707

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Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
							bbls HVFR carrying 1,795,995# 100M and 19,168,950 # 40/70 white. 1/21: Drill out all plugs w/ 4.625" Roller Cone Bit. TLTR: 461,774 bbls. SICP: 3,000#.

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	X1	1	47	0.82	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 Shut-In (psi)	Casing Pressure (psi)
00	X1	1	03/25/2021	24	1188	2564	3394	2158	24/64		3875

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Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD27

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	Acquiduct/Right of Way
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0857478	-103.6187417	3407	N/A	N/A	FEDERAL	NMNM15321				2165	FSL	364	FWL	25S	33E	31	Lo
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0862492	-103.6170928	-5206	8634	8613	FEDERAL	NMNM15321				2348	FSL	875	FWL	25S	33E	31	Lo
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0854608	-103.6171879	-9009	12567	12416	FEDERAL	NMNM15321				2600	FSL	350	FWL	25S	33E	31	Lo
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0065986	-103.6172716	-9078	19829	12485	FEDERAL	NMNM15321				252	FSL	797	FWL	26S	33E	6	Lo
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0655394	-103.6172089	-9141	19844	12548	FEDERAL	NMNM15321				89	FSL	815	FWL	26S	33E	6	Lo

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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	919	10.75	40.5	J-55		BUTT		
00	INTERMEDIATE	9.875	0	11554	7.625	29.7	HCP-110		BUTT		
00	PRODUCTION	6.75	0	19825	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		NeoCem	880	3.36	0	Halcem	440	1.22		622.2
00	PRODUCTION		Versacem	730	2.44	0	Versacem	865	1.22		505.2

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
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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

Operator Name KAISER FRANCIS OIL COMPANY	Well Name RED HILLS FEDERAL	Well Number 501H	US Well Number 3002546422
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2in_MD_Red_Hills_501H_20210429134047.pdf

2in_TVD_Red_Hills_501H_20210429134049.pdf

5in_MD_Red_Hills_501H_20210429134050.pdf

5in_TVD_Red_Hills_501H_20210429134051.pdf

Red_Hills_501H_Final_Points__NAD_83__20210429134141.pdf

Red_Hills_501H_Final_Survey__NAD_83__20210429134142.pdf

Red_Hills_501H_WBD_20210429134153.pdf

Red_Hills_604H_C_102_As_Drilled__HSU_20221017140605.pdf

Red_Hills_501H_C_102_As_Drilled__HSU_20221017141111.pdf

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 257011

ACKNOWLEDGMENTS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 741211468	OGRID: 12361
	Action Number: 257011
	Action Type: [C-105] Well (Re)Completion (C-105)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☐	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.
☐	I hereby certify that no additives containing PFAS chemicals were added to the fluid used in the completion or recompletion of this well.

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CONDITIONS

Action 257011

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CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	10/10/2025