PA T		Contra Contra				
Form 3160-3 (June 2015)	Ò	CD Hol	ີ 'V ອ	FORM Market Contraction FORM OMB Network	APPROVED o. 1004-0137 inuary 31, 2018	F/F
UNITED STATES DEPARTMENT OF THE INTE	FRIOR	~~00	bs .	3. Lease Serial No		
BUREAU OF LAND MANAGE	EMENT	LINBBS	OCr	NMNM015321		
APPLICATION FOR PERMIT TO DRIL	L OR	REENTER	2018	6. If Indian, Allotee	or Tribe Name	
Ia. Type of work: I DRILL	TER		a set	7. If Unit or CA Age	eement. Name a	nd No.
1b. Type of Well: 🚺 Oil Well 🔲 Gas Well 🛄 Other		RECE	IVE	8 Lease Name and	Well No	
Ic. Type of Completion: Hydraulic Fracturing Single	Zone	Multiple Zone		RED HILLS	GPEL	467)
2. Name of Operator KAISER FRANCIS OIL COMPANY (12361)			A	9. API-Well No.	5-44	387 50 car
3a. Address 3b. 6733 S. Yale Ave. Tulsa OK 74121 (91)	Phone N 8)491-0	lo. (include area code 000		HO/Field and Pool, /UPP	or Exploratory ER BONE SPR	77997
4. Location of Well (Report location clearly and in accordance with a	any State	requirements.*)	\frown	11. Sec., T. R. M. of	Blk. and Survey	y or Area
At surface NESW / 2400 FSL / 1735 FWL / LAT 32.086391	32 0662	G -103.6143183	157575			
At proposed prod. zone SWSW / SSU FSL / 1200 FWL / LAT	32.0002	.0127 LONG - 103.0	13/3/3	1 12 County or Paris	h 13 St	ate
14 miles			$\overline{/}$	LEA	NM	
15. Distance from proposed* 240 feet 16. location to nearest 240 feet 834 (Also to nearest drig, unit line, if any) 834	. No of ac 8.8	eres in lease	17. Speci 240	ing Unit dedicated to t	his well	
18. Distance from proposed location* 19. to nearest well, drilling, completed, 30 feet 12.	Propose	d Depth	20. BLM	/BIA Bond No. in file YB000055		
21 Elevations (Show whether DE KDB RT GL etc.) 22	Approxi	mate date work will	start*	23 Estimated durat	ion	·
3419 feet	01/2018			30 days		
	4. Attac	hments				
 The following, completed in accordance with the requirements of One (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lagrangian System System Lagrangian System System	shore Oil	 and Gas Order No. 1 4. Bond to cover the Item 20 above). 5. Operator certific 	, and the H e operation ation.	Hydraulic Fracturing r	ule per 43 CFR :	3162.3-3 n file (see
SUPO must be filed with the appropriate Forest Service Office):		BLM.		rmation and/or plans as	may be requeste	a by the
25. Signature (Electronic Submission)	Name Melan	(Printed/Typed) ie Wilson / Ph: (57	5)914-14(61	Date 08/15/2018	· · · · · · · · · · · · · · · · · · ·
Regulatory Analyst		,				
Approved by (Signature) (Electronic Submission)	Name Cody	(Printed/Typed) Layton / Ph: (575)2	234-5959		Date 10/31/2018	
Title Assistant, Field Manager Lands & Minerals	Office CARL	SBAD				
Application approval does not warrant or certify that the applicant ho applicant to conduct operations thereon. Conditions of approval, if any, are attached.	lds legal	or equitable title to th	iose rights	in the subject lease w	hich would entit	le the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make of the United States any false, fictitious or fraudulent statements or re	it a crime presentat	e for any person know ions as to any matter	vingly and within its	d willfully to make to a jurisdiction.	any department o	or agency
(Continued on page 2)	D WI I Date	TH CONDIT : 10/31/2018	IONS	11/2 11/2 *(In	structions on	page 2)

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INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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.



The Privacy Act of 1974 and 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., 25 U(\$.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. **Response to** this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

Approval Date: 10/31/2018

Additional Operator Remarks

Location of Well

1. SHL: NESW / 2400 FSL / 1735 FWL / TWSP: 25S / RANGE: 33E / SECTION: 31 / LAT: 32.0863917 / LONG: -103.6143183 (TVD: 0 feet, MD: 0 feet) PPP: NWSW / 2540 FSL / 1266 FWL / TWSP: 25S / RANGE: 33E / SECTION: 31 / LAT: 32.086777 / LONG: -103.615835 (TVD: 12054 feet, MD: 12100 feet) BHL: SWSW / 330 FSL / 1266 FWL / TWSP: 26S / RANGE: 33E / SECTION: 6 / LAT: 32.0662012 / LONG: -103.6157575 (TVD: +12350; feet, MD: 19684 feet)

BLM Point of Contact

Name: Tenille Ortiz Title: Legal Instruments Examiner Phone: 5752342224 Email: tortiz@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

AFMSS

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



APD ID: 10400032899

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Type: OIL WELL

Submission Date: 08/15/2018

Zip: 74121

Well Number: 402H Well Work Type: Drill



Show Final Text

Section	1	-	General

APD ID:	10400032899	Tie to previous NOS?	Submission Date: 08/15/2018							
BLM Office:	CARLSBAD	User: Melanie Wilson	Title: Regulatory Analyst							
Federal/India	an APD: FED	Is the first lease penetra	ted for production Federal or Indian? FED							
Lease numb	er: NMNM015321	Lease Acres: 838.8								
Surface acco	ess agreement in place?	Allotted?	Reservation:							
Agreement i	n place? NO	Federal or Indian agreen	Federal or Indian agreement:							
Agreement r	number:									
Agreement r	name:									
Keep applica	ation confidential? YES									
Permitting A	gent? NO	APD Operator: KAISER F	FRANCIS OIL COMPANY							
Operator let	ter of designation:									

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Operator PO Box: PO Box 21468

Operator City: Tulsa State: OK

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan na	ame:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: RED HILLS	Well Number: 402H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: JENNINGS	Pool Name: UPPER BONE SPRING SHALE

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Weil Number: 402H

Describe other minerals:					
Is the proposed well in a Helium produ	uction area? N	Use Existing Well Pad? NO	New surface disturbance?		
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name: RED	Number: 2		
Well Class: HORIZONTAL		HILLS Number of Legs: 1			
Well Work Type: Drill			·· ·		
Well Type: OIL WELL					
Describe Well Type:					
Well sub-Type: EXPLORATORY (WILD	CAT)				
Describe sub-type:					
Distance to town: 14 Miles	Distance to ne	arest well: 30 FT Distan	ce to lease line: 240 FT		
Reservoir well spacing assigned acres	s Measurement	: 240 Acres			
Well plat: Red_Hills402HC102_	2018081513144	9.pdf			
Red_Hills402HPymt_	2018081513502	8.pdf			
Well work start Date: 11/01/2018		Duration: 30 DAYS			

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

#1 PPP

Leg

#1

254

0

FSL

126

6

FWL 25S

Survey number: 6206

Vertical Datum: NAVD88

LEA

103.6158

35

NEW

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MEXI MEXI

co

Aliquot/Lot/Tract EW Indicator NS Indicator -ongitude EW-Foot NS-Foot Section Latitude County Range Twsp State SHL Aliquot 240 FSL 173 FWL 25S 33E 31 32.08639 LEA NEW NEW F 0 5 NESW 17 103.6143 MEXI MEXI Leg co 183 CO #1 KOP 260 FSL 126 FWL 25S 33E 31 Aliquot 32.08694 LEA NEW NEW F -0 6 103.6158 MEXI MEXI 1 Leg NWS 31 со CO

W

33E 31

Aliquot

NWS

W

32.08677

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Page 2 of 3

ease Number

NMNM

015321

NMNM

015321

NMNM

015321

ease Type

Meridian

NEW F

Elevation

341 0

835

863

5

8

9

DVL

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117

77

120

54

Q

118

11

121

00

Paygov

Receipt

Your payment is complete

Pay.gov Tracking ID: 26BKCJ2I Agency Tracking ID: 75552435555 Form Name: Bureau of Land Management (BLM) Application for Permit to Drill (APD) Fee Application Name: BLM Oil and Gas Online Payment

Payment Information

Payment Type: Debit or credit card Payment Amount: \$9,790.00 Transaction Date: 08/15/2018 03:49:30 PM EDT Payment Date: 08/15/2018 Company: Kaiser-Francis Oil Company APD IDs: 10400032899 Lease Numbers: NMNM15321 Well Numbers: 402H Note: You will need your Pay.gov Tracking ID to complete your APD transaction in AFMSS II. Please ensure you write this number down upon completion of payment.

in the factor

Account Information

Cardholder Name: George B Kaiser Card Type: Visa Card Number: *********0061

Email Confirmation Receipt

Confirmation Receipts have been emailed to: mjp1692@gmail.com



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

Drilling Plan Data Report

10/31/2018

APD ID: 10400032899

Submission Date: 08/15/2018

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Type: OIL WELL

Well Number: 402H

Highlig Netliki da Elizati (historet reconscientores

Show Final Text

Well Work Type: Drill

Section 1 - Geologic Formations

Formation		•	True Vertical	Measured	. :		Producing
ID ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1		3419	0	0		NONE	No
2	RUSTLER	2559	860	860		NONE	No
3	SALADO	2219	1200	1200		NONE	No
4	TOP SALT	1419	2000	2000		NONE	No
5	BASE OF SALT	-1031	4450	4450		NONE	No
6	LAMAR	-1331	4750	4750		NATURAL GAS,OIL	No
7	BELL CANYON	-1451	4870	4870		NATURAL GAS,OIL	No
8	CHERRY CANYON	-2441	5860	5860		NATURAL GAS,OIL	No
9	BRUSHY CANYON	-5181	8600	8600		NATURAL GAS,OIL	No
10	BONE SPRING	-5381	8800	8800		NATURAL GAS,OIL	No
11	AVALON SAND	-5591	9010	9010		NATURAL GAS,OIL	Yes
12	BONE SPRING 1ST	-6531	9950	9950		NATURAL GAS,OIL	No
13	BONE SPRING 2ND	-7091	10510	10510		NATURAL GAS,OIL	No
14	BONE SPRING LIME	-7531	10950	10950		NATURAL GAS,OIL	No
15	BONE SPRING 3RD	-8266	11685	11685		NATURAL GAS, OIL	No
16	WOLFCAMP	-8651	12070	12070		NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS JIL COMPANY

Well Name: RED HILLS

Well Number: 402H

Suffine the A 160° system with a negative coording to Onchane Steer, 22 carshein of a large inversion, 2009 with a second school of the carshein of the carshe



Variance request: Flex Hose Variance

tsang Propetries CCI / SQLE valles is an interpendenter visa substance to par bar and water is interpedent of Source may be uppleded to contribut produce but sall below without ing income states. In its system is ingredent of the comparising Match / Valle is finalement and tasked Prior main without produced by the set of the pendal. The Angular half be final to the states with not work with the penalement of the states of the states of the states in the comparising match of the finalement of the land with the special charts of the states of the states in the states of the states of the helf be final to the states with not work with the special charts of the states of the states of the states in the second to make a state of the states of the states of the special charts of the states of t

Choke Diagram Attachment:

Red_Hills_402H_Choke_Manifold_20180808121917.pdf

BOP Diagram Attachment:

Red_Hills__402H__Flex_Hose_20180809101404.pdf

Red_Hills__402H__Well_Control_Plan_20180815111232.pdf

Red_Hills_402H___10M_BOP_20180921095000.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	10.75	NEW	API	N	0	910	0	910			910	J-55	40.5	STC	3.7	7.3	DRY	11.4	DRY	17.1
2	INTERMED	9.87 5	7.625	NEW	API	N	0	11700	0	11700			11700	HCP -110	29.7	LTC	1.2	1.7	DRY	2.2	DRY	2.7
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	19684	0	19684			19684	P- 110	20	OTHER - EAGLE SF	1.6	1.7	DRY	2.5	DRY	3

Casing Attachments

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Number: 402H

Casing ID: 1 String Type:SURFACE			
Inspection Document:			
Spec Document:			
rapered String Spec:			
Casing Design Assumptions and Worksheet(s):		· · ·	
	• .		
Casing ID: 2 String Type: INTERMEDIATE			

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Red_Hills__402H__Casing_Assumptions_20180809102324.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Red_Hills__402H_Casing_Assumptions_20180809102707.pdf

Red_Hills_402H_5.5_x_20_P110_HP_USS_EAGLE_SFH_Performance_Sheet_20180809102754.pdf

Section 4 - Cement

							the second se				
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	910	339	1.75	13.5	592	50	Halcem	Kol Seal
SURFACE	Tail		0	910	125	1.33	14.8	167	50	Halcem	Poly E Flake
INTERMEDIATE	Lead	4800	0	4800	462	2.81	11	1296	50	NeoCem	None
INTERMEDIATE	Tail		0	5800	155	1.33	14.8	207	25	Halcem	None
INTERMEDIATE	Lead	4800	4800	1070 0	667	2.85	11	1898	50	NeoCem	Ko-Seal
INTERMEDIATE	Tail		4800	1170 0	197	1.2	15.6	236	25	Halcem	Halad R-9
PRODUCTION	Lead		8000	1968 4	176	1.8	12.9	317	0	Econocem	Halad R-322
PRODUCTION	Tail		8000	1968 4	877	1.22	14.5	1085	10	Versacem	Halad R-344

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

	Circ	ulating Medic	um Ta	able							
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
910	1170 0	OTHER : CUT BRINE	8.8	9.2							

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Number: 402H

Lop Depth 1120	8961 80ttom Depth 7	ed L PIW OIL-BASED MUD	.57 Min Weight (Ibs/gal)	C Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics	
0	910	OTHER : FRESH WATER	8.4	9								

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

DS,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8349

Anticipated Surface Pressure: 5632

Anticipated Bottom Hole Temperature(F): 210

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Red_Hills_402H_H2S_Plan_20180809105628.pdf

Operator Name: KAISER FRANCIS JL COMPANY

Well Name: RED HILLS

Well Number: 402H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Red_Hills_402H_Directional_Plan_20180809105806.pdf

Other proposed operations facets description:

Gas Capture Plan attached

Other proposed operations facets attachment:

Red_Hills__402H__Gas_Capture_Plan_20180809110008.pdf

1

Other Variance attachment:

Red_Hills__402H__Flex_Hose_20180809110030.pdf





GATES E & S NORTH AMERICA, INC. 1450 Montana Rd Iölä, KS 66749

PHONE:	620-365-4147
FAX:	620-365-4119
EMAIL:	Eileen.Johns@yates.com
WEB:	www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	9/1/2017								
Customer Ref. :	4085873	Hose Serial No.:	IQ-090117-2								
Invoice No. :	508456	Created By:	BENJAMIN ALLEN								
Comments:	. N/A										
		<u></u>									
Hose Temperature:	-4°F to +180°F (-20°C to +82°C)										
Product Description:	10K	3.035.0CM4116FIXXFLTFLG	SS\LE								
End Fitting 1 :	4 1/16 10K FIXED FLANGE	End Fitting 2 :	4 1/16 10K FLOATING FLANGE								
Gates Part No. :	4773-4290	Assembly Code :	L39629081817IO-090117-2								
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI								

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Sixth Edition, June 2015, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:	QUALITY	Produciton:	PRODUCTION
Date :	9/1/2017	Date :	1 \$1/2017
Signature :	Donony all	Signature :	HA XE

Form PTC - 01 Rev.0 2





Date Range: 9/1/2017 11:37:00 AM ------ 9/1/2017 11:58:00 AM HOSE I.D. LENGTH 23 END 1 4/16 **Rotary Tester PSI** END 9 25000 WORKING PRESSURE 10,000 GRADE P.S.I. TEST PRESSUBE 15,000 PSI. ASSEMBLY DATE 083017 A. 22500 SEP 0 1 2017 TEST DATE 090/17 SERIAL # 13942908/81720-090117-2 20000 - CR # MPG 317 NAME (AnCooper 17500 15000 12500 10000 7500 5000 2500 BY 120 17 11:37:30 AM 9/12017 11:36 (0 AR NA 05.25.11 71.02/14 NV2014 11 39 00 AM 9/1/2017 11:56 30 1 H S/12017 11:37.00 AM 9/1/2017 11:41:00 AN M/2017 11:41:38 AM A1/2017 11:42:00 AN BAIZO17 11:43:00 AB 9//2017 11:49.00 AM 9/1/2017 11:49:30 AM BA 201211 1151100 AB 9412017 11:55:30 AM 9/1/2017 11:40:30 AM 9/1/2017 11:42:30 AB 9/12017 11:43:39 AL 9///2017 11:44:30 AL 94/2017 1147.00 AL 9/12017 11:48:30 At M/2017 11:50:00 AM AVIZOR 11:50:30 AL P12017 11:51:30 Al MIZ017 11:52:00 AN BY/2017 1152:30 AM 9/12017 1153.00 AL NA2017 1153-30 AL 9/12017 11:55:00 Al 91/2017 11:56:00 AB P1/2017 1157:00 BY/2017 11:57:30 AM 9//2017 11:48.00 AI 9/1/2017 11:47:30 AU PU2017 1154:30 N SANZO17 11-46-30 A ANZO17 11:46:00 A MU2017 11:54:00 A S/12017 11.45.30 A 9/1/2017 11:45.00 11:30:30 Ani2017 11:44:00 97/2017 11:55:00 11:401 211/2011 SV1/2017

KFOC Well Control Plan

A. Component and Preventer Compatibility Table

Component	OD	Preventer	RWP
Drill Pipe	4 1/2"	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Heavyweight Drill Pipe	4 1/2"	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
Drill Collars & MWD Tools	6 1/4"-4 ¾"	Annular Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	5M 10M 10M
Mud Motor	8"-4 3/4"	Annular Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	5M 10M 10M
Production Casing	5 1/2"	Upper VBR: 3.5 – 5.5 Lower VBR: 3.5 – 5.5	10M
All	0 – 13 5/8"	Annular	5M
Open Hole		Blind Rams	10M

B. Well Control Procedures

- I. General Procedures While Drilling:
 - a. Sound alarm alert crew
 - b. Space out drill string
 - c. Shut down pumps and stop rotary
 - d. Open HCR
 - e. Shut well in, utilizing upper VBRs
 - f. Close choke
 - g. Confirm shut in
 - h. Notify rig manager and KFOC, Inc. company representative
 - i. Call KFOC, Inc. engineer
 - j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
 - k. Regroup, identify forward plan

II. <u>General Procedures While Tripping</u>:

- a. Sound alarm alert crew
- b. Stab full opening safety valve and close
- c. Space out drill string
- d. Open HCR
- e. Shut well in, utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and KFOC. company representative
- i. Call KFOC. engineer

KFOC Well Control Plan

- j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
- k. Regroup, identify forward plan

III. General Procedures While Running Casing:

- a. Sound alarm alert crew
- b. Stab full opening safety valve and close
- c. Space out drill string
- d. Open HCR
- e. Shut well in, utilizing upper VBRs
- f. Close choke
- g. Confirm shut in
- h. Notify rig manager and KFOC company representative
- i. Call KFOC engineer
- j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
- k. Regroup, identify forward plan
- IV. General Procedures With No Pipe in Hole (Open Hole):
 - a. Sound alarm alert crew
 - b. Open HCR
 - c. Shut well in with blind rams
 - d. Close choke
 - e. Confirm shut in
 - f. Notify rig manager and KFOC company representative
 - g. Call KFOC engineer
 - h. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
 - j. Regroup, identify forward plan
- V. <u>General Procedures While Pulling BHL Through BOP Stack:</u>
 - 1. Prior to pulling last joint of drill pipe through stack A. Perform flow check and if flowing:
 - a. Sound alarm alert crew
 - b. Stab full opening safety valve and close
 - c. Space out drill string with tool joint just beneath upper pipe ram
 - d. Open HCR
 - e. Shut well in utilizing upper VBRs
 - f. Close choke
 - g. Confirm shut in
 - h. Notify rig manager and KFOC company representative
 - i. Call KFOC engineer

KFOC Well Control Plan

- j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain

iii. Time

- k. Regroup, identify forward plan
- 2. With BHL in the BOP stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm alert crew
 - b. Stab full opening safety valve and close
 - c. Space out drill string with tool joint just beneath upper pipe ram
 - d. Open HCR
 - e. Shut well in utilizing upper VBRs
 - f. Close choke
 - g. Confirm shut in
 - h. Notify rig manager and KFOC. company representative
 - i. Call KFOC engineer
 - j. Read and record:
 - i. Shut in drill pressure and shut in casing pressure
 - ii. Pit gain
 - iii. Time
 - k. Regroup, identify forward plan
- 3. With BHA in the BOP stack and no compatible ram preventer and pipe combo immediately available
 - a. Sound alarm alert crew
 - b. If possible to pick up high enough, pull string clear of the stack and follow Open Hole scenario (III)
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - i. Stab crossover, make up one joint/stand of drill pipe and full opening safety valve and close
 - ii. Space out drill string with tool joint just beneath the upper pipe ram
 - iii. Open HCR
 - iv. Shut in utilizing upper VBRs
 - v. Close choke
 - vi. Confirm shut in
 - vii. Notify rig manager and Mesquite SWD, Inc. company representative
 - viii. Read and record:
 - 1. Shut in drill pipe pressure and shut in casing pressure
 - 2. Pit gain
 - 3. Time

d. Regroup and identify forward plan

** If annular is used to shut in well and pressure build to or is expected to get to 50% of RWP, confirm space-out and swap to upper VBRs for shut in.





Idià, KS 66749

PHONE: 620-365-4147 FAX: 620-365-4119 EMAIL: *Eileen.Johns@yates.com* WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	9/1/2017									
Customer Ref. :	4085873	Hose Serial No .:	IO-090117-2									
Invoice No. :	508456	Created By:	BENJAMIN ALLEN									
Comments:	N/A											
Hose Temperature:	-4°F to +180°F (-20°C to +82°C)											
Product Description:	10K3.035.0CM4116FIXXFLTFLG SS\LE											
End Fitting 1 :	4 1/16 10K FIXED FLANGE	End Fitting 2 :	4 1/16 10K FLOATING FLANGE									
Gates Part No. :	4773-4290	Assembly Code :	L39629081817IO-090117-2									
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI									

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Sixth Edition, June 2015, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality: Date : Signature : QUALITY 9/1/2017 Dongmy COUL

Produciton: Date : Signature : PRODUCTION 1/1/2017

Form PTC - 01 Rev.0 2



Formation Name	Fermation Top TVD	interval	Longth	Casing Size	Weight (#/#)	Grade	Thread	Condition	Hola Size	TVD (Hs)	Mard Type	Hud Weight Hole Control	Depth	Viscosity	Fiuhl Loss	Antic Mad 1 (P	ipated Koight PE)	Max Pero Préssure (pri)	Collepse (gri)	Burst (psi)	Body Tentile Strongth	Jaint Tensila Strength	Collapse Selety Factor 134in 1.11	Burst Safety Factor (Min 1.0)	Bady Tonsile Sefety Factor	Joint Tensile Sefaty Factor
Rustler	\$60	Conductor	120	20-		-		New		120															(Min 1.5)	(Min 1.6)
Salado	1200	Surface	910	10-3/4"	40.5	1-55	STC	New	14.75	910	fW	84-9.0	910	32-34	NC		9	426	1580	3130	629000	420000	3.7	7.3	17.1	114
Top of Salt	2000	Intermediate	11700	7-5/8	29.7	HCP-110	LIC	New	9.875	11700	Cut Brine	8.8-92	11700	34	NC		4	\$597	6700	9460	940000	769000	12	1.7	1.7	2.2
Base of Salt	4450	Production	19684	\$-1/2"	20	P110 HP	Eagte SF	New	6.75	12350	OBM	12.5-13.0	19684	48-52	<10	1	3	6349	13150	14360	729000	629000	1.6	1.7	3.0	2.5
Lamar	4750																									
Bell Canyon	4870																									
Cherry Canyon	5860																									
Brushy Canyon	8600																									
Laurante Lave	6500																	•								
Avalon	9010																									
1 BSS	9950																									
2 B22	10510																									
3 BSL	10950																									
3 BSS	11685																									
Woltcamp	12070																									

Formation Name	Fermation Tep TVD	interval	Longth	Casing Size	Weight (F/N)	Greele	Thread	Condition	Holo Siza	TVP (ft)	Mud Type	Mud Weight Hole Control	Depth	Viscosity	Finis Loss	4. 11	laticipated Ind Weight (ppg)	Max Para Préssura (p11)	Collopuo (pri)	Burst (pri)	Body Tenuile Strength	Joint Tonallo Strongth	Collapse Safety Factor	Burst Selety Factor (Min 1.9	Body Totallo Safety Factor	John Tontile Safety Factor
Rustler	\$50	Conductor	120	20"				New	1	120									· ·		1		- (mail 7-7)		(Min 1.8)	(Min 2.43)
Salado	1200	Surface	910	10-3/4*	40.5	1-55	STC	New	14 75	910	FW.	84-90	910	32 - 34	NC		9	426	1580	3130	629000	420000	3.7	7.3	17.1	11.4
Top of Salt	2000	intermediate	11700	7-5/8"	29.7	HCP-110	LTC	New	9.875	11700	Cut Brine	8.8-9 2	11700	34	NC		9.2	5597	6700	9450	940000	769000	1.2	1.7	2.7	2.2
Base of Sait	4450	Production	19684	5-1/2"	20	P110 HP	Eagle SF	New	6.75	12350	OBM	12.5-13.0	19684	48-52	<10		13	8349	13150	14360	729000	629000	1.6	1.7	3.0	2.5
Lamar	4750																									
Bell Canyon	4870																									
Cherry Canyon	5860																									
Brushy Canyon	8600																									
Charlen Careco	8800																									
Avalon	9010																									
1 BSS	9950																									
2 855	10510																									
3 BSL	10950																									
3 B\$S	11585																									
Wolfcamp	12070																									

'



U. S. Steel Tubular Products

		CONNECTION				
	PIPE	CONNECTIO	N			
MECHANICAL PROPERTIES						
Minimum Yield Strength	125,000		psi			
Maximum Yield Strength	140,000		psi			
Minimum Tensile Strength	130,000		psi			
DIMENSIONS						
Outside Diameter	5.500	5.830	in.			
Wall Thickness	0.361		in.			
Inside Diameter	4.778	4.693	in.			
Drift - API	4.653	4.653	in.			
Nominal Linear Weight, T&C	20.00		lbs/ft			
Plain End Weight	19.83		lbs/ft			
SECTION AREA						
Cross Sectional Area Critical Area	5.828	5.027	sq. in.			
Joint Efficiency		86.25	%			
PERFORMANCE						
Minimum Collapse Pressure	13,150	13,150	psi			
External Pressure Leak Resistance		10,000	psi			
Minimum Internal Yield Pressure	14,360	14,360	psi			
Minimum Pipe Body Yield Strength	729,000		lbs			
Joint Strength		629,000	lbs			
Compression Rating		629,000	lbs			
Reference Length		21,146	ft			
Maximum Uniaxial Bend Rating		89.9	deg/100 ft			
MANGE UIP IDAMA						
Minimum Make-Up Torque		14,200	ft-lbs			
Maximum Make-Up Torque		16,800	ft-lbs			
Maximum Operating Torque		25,700	ft-lbs			
Make-Up Loss		5.92	in.			

equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

2) Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.

3) Uniaxial bending rating shown is structural only, and equal to compression efficiency.

4) Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

- 5) Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.
- 6) Connection external pressure resistance has been verified to 10,000 psi (Fit-For-Service testing protocol).

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

APD ID: 10400032899

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Type: OIL WELL

Submission Date: 08/15/2018

Well Number: 402H Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Red_Hills__402H__Existing_Roads_20180815111535.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Red_Hills_402H_Access_Road_Map_20180809110521.pdf

New road type: RESOURCE

Length: 1833 Feet Width (ft.): 25

Max slope (%): 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 15

New road access erosion control: Road construction requirements and regular maintenance would alleviate potential impacts to the access road from water erosion damage. **New road access plan or profile prepared?** NO

Max grade (%): 2

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:



10/31/2018

SUPO Data Report

Row(s) Exist? NO

Show Final Text



Date Range: 9/1/2017 11:37:00 AM ----- 9/1/2017 11:58:00 AM HOSE I.D. LENGTH 25 END 1 4/16 **Rotary Tester PSI** END 9 25000 GRADE WORKING PRESSURE _/0,000 P.S.L TEST PRESSURE 15,000 P.S.I. ASSEMBLY DATE 083017 AC 22500 SEP 0 1 201 TEST DATE 090/17 SERIAL # 4.3942908/81720-0901/7-20000 CR # MPG 317 NAME Abn Looper 17500 15000 12500 10000 7500 5000 2500 00 9/1/2017 11-36-30 AR 9/12017 11:39.00 AR 8472017 11:36:00 AR BA12017 11:43:30 AH Brizo17 11:44:00 AM 9/1/2017 11:44:30 AM 971/2017 11:55:30 AM 91/2017 11:56.00 AR 9/1/2017 11:56-30 · W 9/1/2017 11.37.00 All 9412017 11:37:30 AR 21/2017 11:30:30 AM 9//2017 11-40-30 AB 9//2017 11:41:00 AN 9/1/2017 11:41:30 AU 84/2017 11-43.00 AB 9/1/2017 11:45.00 AN 9/1/2017 11:45:30 AM 0/1/2017 11:46:00 AB 9/1/2017 11:48:30 At 9//2017 11:54:00 AR 9/1/2017 11:54:30 Al 3/1/2017 11:55:00 AN 9/1/2017 11:57:30 AM B//2017 11:48:09 Al 97//2017 11/57:00 ; 9/12017 11:47.00 9/1/2017 11 47:30 BY12017 1152:30 9/1/2017 11:42:00 9/1/2017 11:42:30 BY12017 11:46:30 B/1/2017 11:49:00 9/1/2017 11:49:30 00'05'11 2102'Ve 9/12017 11:51:30 BH/2017 11:52:00 9/1/2017 11:53:00 00:0511 1102/1/6 02/02/11 11/02/1/6 BV12017 1151:00 11:55:00 9/1/2017 11:40 9/1/2017

Operator Name: KAISER FRANC၊၁ OIL COMPANY

Well Name: RED HILLS

Well Number: 402H

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Material will be obtained from BLM caliche pit in NWNW Section 23-T25S-R33E or BLM pit in NWNW Section 1-T25S-R33E

Onsite topsoil removal process: The top 6 inches of topsoil is pushed off and stockpiled along the side of the location. An approximate 160' X 160' area is used within the proposed well site to remove caliche. Subsoil is removed and stockpiled within the pad site to build the location and road. Then subsoil is pushed back in the hole and caliche is spread accordingly across proposed access road.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Proposed access road will be crowned and ditched and constructed of 6 inch rolled and compacted caliche. Water will be diverted where necessary to avoid ponding, maintain good drainage, and to be consistent with local drainage patterns.

Road Drainage Control Structures (DCS) description: The ditches will be 3' wide with 3:1 slopes

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Red_Hills_402H_1_Mile_Map_20180809110814.pdf Red_Hills_402H_1_Mile_Well_Data_20180809110816.pdf Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Production facilities are planned for the south side of pad. Plan for initial wells: 2-1000 bbl water tanks and 8-1000 bbl oil tanks, a temporary 6X20 horizontal 3-phase sep, a 48" X 10' 3-phase sep, a 8 X 20' heater treater and a 48"X 10' 2-phase sep

Well Number: 402H

Water Source Table	
Water source use type: INTERMEDIATE/PRODUCTION CASING	Water source type: OTHER
Describe type: BRINE WATER	
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: PRIVATE	
Water source transport method: TRUCKING	
Source transportation land ownership: OTHER	Describe transportation land ownership
Water source volume (barrels): 20000	Source volume (acre-feet): 2.577862
Source volume (gal): 840000	
Water source use type: OTHER, STIMULATION, SURFACE CASI	NG Water source type: OTHER
Describe type: FRESH WATER	
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT	
Source land ownership: PRIVATE	
Water source transport method: TRUCKING	
Source transportation land ownership: OTHER	Describe transportation land ownership
Water source volume (barrels): 250000	Source volume (acre-feet): 32.223274
Source volume (gal): 10500000	
ater source and transportation map:	

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Number: 402H

Aquifer comments:

Aquifer documentation:	
Well depth (ft):	Well casing type:
Well casing outside diameter (in.):	Well casing inside diameter (in.):
New water well casing?	Used casing source:
Drilling method:	Drill material:
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Water well additional information:	
• •••••••••••••••••••••••••••••••••••	

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: On site caliche will be used for construction if sufficient. In the event insufficient quantities of caliche are available onsite, caliche will be trucked in from BLM's caliche pit in NWNW Section 23-T25S-R33E or NWNW Section 1-T25S-R33E

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

Safe containment description: Waste material will be stored safely and disposed of properly

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Waste type: GARBAGE

Waste content description: Miscellaneous trash

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Trash produced during drilling and completion operations will be collected in a trash container and disposed of properly **Safe containmant attachment:**

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: RED HILLS

Well Number: 402H

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings

Amount of waste: 3900 barrels

Waste disposal frequency : One Time Only

Safe containment description: All drilling fluids will be stored safely and disposed of properly

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY Disposal type description:

Disposal location description: Cuttings will be hauled to R360's facility on US 62/180 at Halfway, NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Cuttings will be stored in roll off bins and hauled to R360 on US 62/180 near Halfway.

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Cuttings area width (ft.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Operator Name: KAISER FRANCis OIL COMPANY Well Name: RED HILLS

Well Number: 402H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Red_Hills_402H__Drilling_Layout_20180809111955.pdf Red_Hills_402H__Well_Pad_Layout_20180809111956.pdf Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: RED HILLS

Multiple Well Pad Number: 2

Recontouring attachment:

Drainage/Erosion control construction: During construction proper erosion control methods will be used to control erosion, runoff and siltation of the surrounding area.

Drainage/Erosion control reclamation: Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area

Well pad proposed disturbance	Well pad interim reclamation (acres): 0 Well pad long term disturbance							
(acres): 4.72 Road proposed disturbance (acres):	Road interim reclamation (acres): 0	(acres): 4.72 Road long term disturbance (acres):						
1.05 Powerline proposed disturbance	Powerline interim reclamation (acres):	1.05 Powerline long term disturbance						
(acres): 0 Pineline proposed disturbance	Pipeline interim reclamation (acres): 0	(acres): 0 Pineline long term disturbance						
(acres): 0	Other interim reclamation (acres): 0	(acres): 0						
Other proposed disturbance (acres): 0	Total interim reclamation: 0	Other long term disturbance (acres): 0						
Total proposed disturbance: 5.77		Total long term disturbance: 5.77						

Disturbance Comments:

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Number: 402H

Soil treatment: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites. Existing Vegetation at the well pad: The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Refer to "Existing Vegetation at the well pad'

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: N/A

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed name:

Source name:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed source:

Source address:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: RED HILLS

Well Number: 402H

Seed Summary

Total pounds/Acre:

Seed reclamation attachment:

Seed Type

Operator Contact/Responsible Official Contact Info

Pounds/Acre

First Name:

Last Name:

Email:

Phone:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: No invasive species present. Standard regular maintenance to maintain a clear location and road.

Weed treatment plan attachment:

Monitoring plan description: Identify areas supporting weeds prior to construction; prevent the introduction and spread of weeds from construction equipment during construction; and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road.

Monitoring plan attachment:

Success standards: To maintain all disturbed areas as per Gold Book standards

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: RED HILLS

Well Number: 402H

State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Disturbance type: WELL PAD Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

- 0

Right of Way needed? YES

ROW Type(s): 281001 ROW - ROADS

Use APD as ROW? YES

ROW Applications

Operator Name: KAISER FRANCIO OIL COMPANY Well Name: RED HILLS

Weil Number: 402H

SUPO Additional Information: SUPO will be attached with APD.

Use a previously conducted onsite? YES

Previous Onsite information: Onsite conducted 04/19/18 by William DeGrush (BLM), Matt Warner (Kaiser-Francis), Frank Jaramillo (Madron Surveying) and Jeff (APAC archaeologist)

Other SUPO Attachment

Red_Hills_402H_SPCC_20180809112723.pdf Red_Hills_402H_SUP_20180815111824.pdf



Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: RED HILLS

Well Number: 402H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	330	FSL	126 6	FWL	26S	33E	6	Aliquot SWS W	32.06620 12	- 103.6157 575	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 015321	- 893 1	196 84	123 50
BHL Leg #1	330	FSL	126 6	FWL	26S	33E	6	Aliquot SWS W	32.06620 12	- 103.6157 575	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 015321	- 893 1	196 84	123 50

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Injection well type: Injection well number: Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment: Underground Injection Control (UIC) Permit? UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

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Bond Information

Federal/Indian APD: FED

BLM Bond number: WYB000055

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Болd Info Data Report

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Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):