Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	NTERIOR AGEMENT)			37 2018
1b. Type of Well: ✓ Oil Well Gas Well	EENTER her ngle Zone	Multiple Zone		7. If Unit or CA Agr BELL LAKE / NMN 8. Lease Name and BELL LAKE UNIT [3167 419H	M 0682 Well No. NORTH	
 Name of Operator KAISER FRANCIS OIL COMPANY [12361] 3a. Address 6733 S. Yale Ave., Tulsa, OK 74121 4. Location of Well (<i>Report location clearly and in accordance w</i> At surface NWSW / 2418 FSL / 380 FWL / LAT 32.3334 At proposed prod. zone NWNW / 330 FNL / 350 FWL / LAT 	(918) 491-0 vith any State 0746 / LONC	requirements.*) G -103.5334045		9. API Well No. 3 10. Field and Pool, OJO CHISO/WOL 11. Sec., T. R. M. or SEC 1/T23S/R33E	or Explora FCAMP, f Blk. and	ttory [98265] SOUTHWEST
14. Distance in miles and direction from nearest town or post offi 20 miles 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	ce* 16. No of ac 479.85	res in lease	17. Spacir 480.0	12. County or Parisl LEA Ig Unit dedicated to th		13. State NM
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3528 feet 		/ 20068 feet mate date work will	FED: WY	BIA Bond No. in file 'B000055 23. Estimated durati 40 days		
 The following, completed in accordance with the requirements of (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 Syster SUPO must be filed with the appropriate Forest Service Office 	n Lands, the	 Bond to cover th Item 20 above). Operator certific Such other site sp BLM. 	e operation	lydraulic Fracturing r s unless covered by an mation and/or plans as	n existing s may be re	bond on file (see
25. Signature (Electronic Submission) Title Regulatory Analyst Approved by <i>(Signature)</i> (Electronic Submission) Title Assistant Field Manager Lands & Minerals	MELA Name Cody I Office	(Printed/Typed) NIE WILSON / Ph (Printed/Typed) Layton / Ph: (575) pad Field Office		1-0000	Date 01/14/2 Date 09/15/2	
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of	ake it a crime	for any person know	wingly and	willfully to make to a		

GCP Rec 10/06/2020



KZ 10/15/2020

SL

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.

NOTICES

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.S.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.

Additional Operator Remarks

Location of Well

0. SHL: NWSW / 2418 FSL / 380 FWL / TWSP: 23S / RANGE: 33E / SECTION: 1 / LAT: 32.3330746 / LONG: -103.5334045 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 0 FSL / 350 FWL / TWSP: 22S / RANGE: 33E / SECTION: 36 / LAT: 32.340934 / LONG: -103.533503 (TVD: 12073 feet, MD: 15118 feet) PPP: SWNW / 2600 FNL / 350 FWL / TWSP: 23S / RANGE: 33E / SECTION: 1 / LAT: 32.333789 / LONG: -103.533502 (TVD: 12073 feet, MD: 12518 feet) BHL: NWNW / 330 FNL / 350 FWL / TWSP: 22S / RANGE: 33E / SECTION: 36 / LAT: 32.354543 / LONG: -103.633507 (TVD: 12073 feet, MD: 12518 feet)

BLM Point of Contact

Name: Gavin Mickwee Title: Land Law Examiner Phone: (575) 234-5972 Email: gmickwee@blm.gov

WAFMSS

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

Application Data Report

09/21/2020

APD ID: 10400053193

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Type: OIL WELL

Submission Date: 01/14/2020

Well Number: 419H Well Work Type: Drill

Ν

Highlighted data reflects the most recent changes

Show Final Text

Submission Date: 01/14/2020

Section 1 - General

APD ID: 10400053193 BLM Office: CARLSBAD

Federal/Indian APD: FED

Lease number: NMLC0066438

Surface access agreement in place?

Agreement in place? YES

Agreement number: NMNM068292X

Agreement name: BELL LAKE

Keep application confidential? Y

Permitting Agent? YES

Operator letter of designation:

User: Melanie Wilson Title: Regulatory Analyst Is the first lease penetrated for production Federal or Indian? FED Lease Acres: 479.85 Allotted? Reservation:

Federal or Indian agreement: FEDERAL

Tie to previous NOS?

APD Operator: KAISER FRANCIS OIL COMPANY

Zip: 74121

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Operator PO Box: PO Box 21468

Operator City: Tulsa

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: BELL LAKE UNIT NORTH	Well Number: 419H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: OJO CHISO	Pool Name: WOLFCAMP, SOUTHWEST

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

State: OK

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

Is the propose	ed well in a Helium production	on area? N	Use Existing Well Pad?	N	New surface disturbance?
Type of Well	Pad: MULTIPLE WELL		Multiple Well Pad Name	NORTH	Number: 1
Well Class: H	ORIZONTAL		BELL LAKE UNIT Number of Legs: 1		
Well Work Ty	pe: Drill				
Well Type: O	IL WELL				
Describe Wel	I Туре:				
Well sub-Type	e: EXPLORATORY (WILDC	AT)			
Describe sub	-type:				
Distance to to	own: 20 Miles	Distance to nea	rest well: 28 FT	Distance	e to lease line: 380 FT
Reservoir we	II spacing assigned acres M	easurement: 480	Acres		
Well plat:	BLUN_419H_C102_20200	113154009.pdf			
	BLUN_419H_Pymt_20200	113154612.pdf			
Well work sta	rt Date: 06/01/2020		Duration: 40 DAYS		

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL Survey number: 7072 Will this well produce from this lease? Aliquot/Lot/Tract Lease Number EW Indicator NS Indicator -ongitude ease Type Elevation Wellbore EW-Foot Meridian NS-Foot Section Latitude Range County Twsp State DVL ДM SHL 241 FSL 380 FW 23S 33E 1 Aliquot 32.33307 LEA NEW NEW F NMLC0 352 0 0 Ν 46 103.5334 MEXI MEXI 066438 8 8 Leg L NWS СО 045 CO W #1 KOP 241 23S 33E 1 Aliquot 32.33307 NEW F FSL 380 FW LEA NEW NMLC0 108 108 Ν 46 MEXI MEXI 066438 727 00 00 103.5334 Leg 8 L NWS СО 045 СО 2 W #1

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: BELL LAKE UNIT NORTH

Well Number: 419H

Wellbore	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	Will this well produce from this lease?
PPP Leg #1-1	260 0	FNL	350	FW L	23S	33E	1	Aliquot SWN W	32.33378 9	- 103.5335 02	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 066438	- 854 5	125 18	120 73	Y
PPP Leg #1-2	0	FSL	350	FW L	22S	33E	36	Aliquot SWS W	32.34093 4	- 103.5335 03	LEA		NEW MEXI CO	S	STATE	- 854 5	151 18	120 73	Y
EXIT Leg #1	330	FNL	350	FW L	22S	33E	36	Aliquot NWN W	32.35454 3	- 103.6335 07	LEA		NEW MEXI CO	S	STATE	- 854 5	200 68	120 73	Y
BHL Leg #1	330	FNL	350	FW L	22S	33E	36	Aliquot NWN W	32.35454 3	- 103.6335 07	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE		200 68	120 73	Y

mjp1692@gmail.com

From:	notification@pay.gov
Sent:	Monday, January 13, 2020 3:44 PM
То:	mjp1692@gmail.com
Subject:	Pay.gov Payment Confirmation: BLM Oil and Gas Online Payment



An official email of the United States government



Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact BLM OC CBS Customer Service at (303) 236-6795 or BLM_OC_CBS_Customer_Service@blm.gov.

Application Name: BLM Oil and Gas Online Payment Pay.gov Tracking ID: 26MQ5H4B Agency Tracking ID: 75927637022 Transaction Type: Sale Transaction Date: 01/13/2020 05:43:37 PM EST Account Holder Name: GEORGE B KAISER Transaction Amount: \$10,230.00 Card Type: Visa Card Number: *********0061

Company: Kaiser-Francis Oil Company APD IDs: 10400053193 Lease Numbers: NMLC0066438 Well Numbers: 419H 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.

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.



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FMSS

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

Well Name: BELL LAKE UNIT NORTH

APD ID: 10400053193

Operator Name: KAISER FRANCIS OIL COMPANY

Submission Date: 01/14/2020

Highlighted data reflects the most recent changes

Show Final Text

Well Type: OIL WELL

Well Number: 419H Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
634474		3528	0	0	OTHER : Surface	NONE	N
634475	RUSTLER	2280	1248	1248	SANDSTONE	NONE	N
634476	SALADO	1883	1645	1645	SALT	NONE	N
634477	TOP SALT	1556	1972	1972	SALT	NONE	N
634478	BASE OF SALT	-1444	4972	4972	SALT	NONE	N
634479	LAMAR	-1694	5222	5222	SANDSTONE	NATURAL GAS, OIL	N
634480	BELL CANYON	-1994	5522	5522	SANDSTONE	NATURAL GAS, OIL	N
634481	CHERRY CANYON	-3194	6722	6722	SANDSTONE	NATURAL GAS, OIL	N
634482	BRUSHY CANYON	-4895	8423	8423	SANDSTONE	NATURAL GAS, OIL	N
634483	BONE SPRING	-5119	8647	8647	LIMESTONE	NATURAL GAS, OIL	N
634484	AVALON SAND	-5482	9010	9010	SANDSTONE	NATURAL GAS, OIL	N
634485	BONE SPRING 1ST	-6470	9998	9998	SANDSTONE	NATURAL GAS, OIL	N
634492	BONE SPRING 2ND	-6995	10523	10523	SANDSTONE	NATURAL GAS, OIL	Y
634496	BONE SPRING LIME	-7520	11048	11048	LIMESTONE	NATURAL GAS, OIL	N
634497	BONE SPRING 3RD	-8045	11573	11573	SANDSTONE	NATURAL GAS, OIL	N
634498	WOLFCAMP	-8345	11873	11873	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Drilling Plan Data Report

09/21/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 419H

Pressure Rating (PSI): 5M

Rating Depth: 13000

Equipment: A 5M system will be installed according to Onshore Order #2 consisting of an Annular Preventer, BOP with two rams, a blind ram and safety valves and appropriate handles located on the rig floor. BOP will be equipped with 2 side outlets (choke side shall be a minimum 3 line, and kill side will be a minimum 2 line). Kill line will be installed with (2) valves and a check valve (2 min) of proper pressure rating for the system. Remote kill line (2 min) will be installed and ran to the outer edge of the substructure and be unobstructed. A manual and hydraulic valve (3 min) will be installed on the choke line, 3 chokes will be used with one being remotely controlled. Fill up line will be installed above the uppermost preventer. Pressure gauge of proper pressure rating will be installed on choke manifold. Upper and lower kelly cocks will be utilized with handles readily available in plain sight. A float sub will be available at all times. All connections subject to well pressure will be flanged, welded, or clamped.

Requesting Variance? YES

Variance request: Flex Hose Variance MultiBowl Wellhead

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional and tested.

Choke Diagram Attachment:

BLUN_419H_Choke_Manifold_20200114112404.pdf

BOP Diagram Attachment:

BLUN_419H_5M_Variance_Request_20200114112443.pdf

BLUN_419H_BOP_20200114112444.pdf

BLUN_419H_Flex_Hose_20200114112501.pdf

BLUN_419H_Wellhead_20200114112544.pdf

BLUN_Well_Control_Plan_20200114112741.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	1600	0	1600	3528	1928	1600	J-55	40.5	ST&C	2.1	4.2	DRY	6.5	DRY	9.7
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	11379	0	11378		-7850	11379	HCP -110	29.7	LT&C	1.3	1.8	DRY	2.3	DRY	2.8
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	20068	0	12073		-8545	20068	HCP -110		OTHER - USS Eagle SFH	1.8	2	DRY	2.7	DRY	3.2

Well Number: 419H

Casing Attachments

Casing ID:	1	String Type: SURFACE
ousing ib.		

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_419H_Csg_Assumptions_20200114113619.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_419H_Csg_Assumptions_20200114113356.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_419H_Prod_Csg_Specs_20200114113507.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 419H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1600	771	1.7	13.5	1333	50	ExtendaCem	Poly E Flake

INTERMEDIATE	Lead	0	1137 9	861	2.7	11	2351	25	NeoCem	Extender
INTERMEDIATE	Tail	0	1137 9	588	1.2	15.6	703	25	Halcem	none
PRODUCTION	Lead	9000	2006 8	831	1.2	14.5	1016	15	Versacem	Halad

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 time.

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1137 8	1207 3	OIL-BASED MUD	10	12							
1600	1137 8	OTHER : Diesel- Brine Emulsion	8.8	9.2							
0	1600	OTHER : Fresh Water	8.4	9							

Operator Name: KAISER FRANCIS OIL COMPANY Well Name: BELL LAKE UNIT NORTH

Well Number: 419H

Section 6 - Test, Logging, Coring

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

Top of cement on production casing will be determined by calculation.

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

DIRECTIONAL SURVEY, GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7533

Anticipated Surface Pressure: 4876

Anticipated Bottom Hole Temperature(F): 199

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:

BLUN_H2S_Plan_20200114113955.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUN_419H_Directional_Plan_20200114114010.pdf

Other proposed operations facets description:

Gas Capture Plan attached

Other proposed operations facets attachment:

BLUN_419H_GCP_20200114114023.pdf

Other Variance attachment:

BLUN_419H_Wellhead_20200114114042.pdf BLUN_419H_5M_Variance_Request_20200114114042.pdf BLUN_419H_Flex_Hose_20200114114056.pdf



Kaiser-Francis Oil Company Bell Lake Unit North 419H Casing Assumptions

Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)	Mud Type	Mud Weight Hole	Depth	Viscosity		Anticipated Mud Weight (ppg)	Max Pore Pressure (psi)	Collapse (psi)	(psi)	Body Tensile Strength	Joint Tensile Strength	Collapse Safety Factor	Burst Safety Factor	Body Tensile Safety Factor	Joint Tensile Safety Factor
Conductor	120	20"				New		120		Control								Ū	, , , , , , , , , , , , , , , , , , ,	(Min 1.1)	(Min 1.0)	(Min 1.8)	(Min 1.8)
Surface	1600	10-3/4"	40.5	J-55	STC	New	14-3/4"	1600	FW	8.4 - 9.0	1350'	32 - 34	NC	9	749	1580	3130	629000	420000	2.1	4.2	9.7	6.5
Intermediate	11379	7-5/8"	29.7	HCP110	LTC	New	9-7/8"	11378	Brine	8.7 - 9.0	11426'	28-29	NC	9	5325	6700	9460	940000	769000	1.3	1.8	2.8	2.3
Production	20068	5-1/2"	20	P110 HP	USS Eagle SFH	New	6-3/4"	12073	OBM	10.0-12.0	19882'	55-70		12	7534	13150	14360	729000	629000	1.7	1.9	3.0	2.6

KAISER-FRANCIS OIL COMPANY HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN FOR DRILLING/COMPLETION WORKOVER/FACILITY

Bell Lake Unit North SECTION 1 -T23S-R33E SECTION 6 -T23S-R34E SECTION 5 -T23S-R34E

LEA COUNTY, NM

This well/facility is not expected to have H_2S , but due to the sensitive location, the following is submitted as requested.

TABLE OF CONTENTS

Emergency Response Activation and General Responsibilities	3
Individual Responsibilities During An H ₂ S Release	4
Procedure For Igniting An Uncontrollable Condition	5
Emergency Phone Numbers	6
Protection Of The General Public/Roe	7
Characteristics Of H ₂ S And SO ₂	8
Training	8
Public Relations	8
Maps	

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections below for further responsibilities:

- 1. Notify the senior ranking contract representative on site.
- 2. Notify Kaiser-Francis representative in charge.
- 3. Notify civil authorities if the Kaiser-Francis Representative cannot be contacted and the situation dictates.
- 4. Perform rescue and first aid as required (without jeopardizing additional personnel).

General Responsibilities

In the event of an H₂S emergency, the following plan will be initiated.

- 1) All personnel will immediately evacuate to an up-wind and if possible up-hill "safe area".
- 2) If for any reason a person must enter the hazardous area, they must wear a SCBA (Self contained breathing apparatus).
- 3) Always use the "buddy system".
- 4) Isolate the well/problem if possible.
- 5) Account for all personnel
- 6) Display the proper colors, warning all unsuspecting personnel of the danger at hand
- 7) Contact the Company personnel as soon as possible if not at the location. (use the enclosed call list as instructed)

At this point the company representative will evaluate the situation and coordinate the necessary duties to bring the situation under control, and if necessary, the notification of emergency response agencies and residents.

INDIVIDUAL RESPONSIBILITIES DURING AN H2S RELEASE

The following procedures and responsibilities will be implemented on activation of the H₂S siren and lights.

<u>All Personnel:</u>

1.

On alarm, don escape unit (if available) and report to upwind briefing area.

Rig Manager/Tool Pusher:

- 1. Check that all personnel are accounted for and their condition.
- 2. Administer or arrange for first aid treatment, and/or call EMTs as needed.
- 3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
- 4. Notify Contract management and Kaiser-Francis Representative.
- 5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

Two People Responsible for Shut-in and Rescue:

- 1. Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
- 2. Utilize the buddy system to secure well and perform rescue(s).
- 3. Return to the briefing area and stand by for further instructions.

All Other Personnel: 1. Isola

Isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally the first responder(s) must evacuate any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

Kaiser-Francis Oil Company Representative:

- 1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
- 2. Notify company management or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police shall be the Incident Command of any major release.

The decision to ignite a well should be a last resort and one if not both of the following pertain.

- 1) Human life and/or property are in danger.
- 2) There is no hope of bringing the situation under control with the prevailing conditions at the site.

INSTRUCTIONS FOR IGNITION:

- 1) Two people are required. They must be equipped with positive pressure; self contained breathing apparatus and a "D"-ring style, full body, OSHA approved safety harness. Non-flammable rope will be attached.
- 2) One of the people will be a qualified safety person who will test the atmosphere for H₂S, Oxygen, & LFL. The other person will be the company supervisor; he is responsible for igniting the well.
- 3) Ignite up-wind from a distance no closer than necessary. Make sure that where you ignite from has the maximum escape avenue available. A 25mm flare gun shall be used, with a +/-500' range to ignite the gas.
- 4) Prior to ignition, make a final check for combustible gases.
- 5) Following ignition, continue with the emergency actions & procedures as before.

CONTACTING AUTHORITIES

Kaiser-Francis personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. This response plan must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER). EMERGENCY CALL LIST: (Start and continue until ONE of these people have been reached)

Kaiser-Francis Oil Co.	<u>OFFCE</u> 918/494-0000	MOBILE
Bill Wilkinson	580/668-2335	580/221-4637
David Zerger	918/491-4350	918/557-6708
Charles Lock	918/491-4337	918/671-6510
Stuart Blake	918/491-4347	918/510-4126
Robert Sanford	918/491-4201	918/770-2682
Eric Hansen	918/491-4339	918/527-5260

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

State Police – Artesia	575/748-9718
State Police – Hobbs	575/392-5580
State Police – Carlsbad	575/885-3138
Lea County Sheriff - Lovington	575/396-3611
Local Emergency Planning Center – Lea County	575/396-8607
Local Emergency Planning Center – Eddy County	575/885-3581
Fire Fighting, Rescue & Ambulance – Carlsbad	911 or 575/885-3125
Fire Fighting, Rescue & Ambulance – Hobbs	911 or 575/397-9308
Fire Fighting – Jal Volunteer Fire Department	911 or 505/395-2221
New Mexico Oil & Gas Commission – Artesia	575/748-1283
New Mexico Oil & Gas Commission – Hobbs	575/393-6161
Air Medical Transport Services – Hobbs	800/550-1025
Med Flight Air Ambulance – Albuquerque	505/842-4433
Angel MedFlight	844/553-9033
DXP	432/580-3770
BJ Services	575/392-5556
Halliburton	575/392-6531 800/844-8451

PROTECTION OF THE GENERAL PUBLIC/ROE:

In the event of a release with a concentration greater than 100 ppm H₂S, the ROE (Radius of Exposure) calculations will be done to determine if the following conditions have been met:

- Does the 100 ppm ROE include any public area (any place not associated with this site)
- Does the 500 ppm ROE include any public road (any road which the general public may travel)
- Is the 100 ppm ROE equal to or greater than 3000 feet

If any one of these conditions have been met then the Contingency Plan will be implemented. The following shows how to calculate the radius of exposure and an example.

Calculation for the 100 ppm ROE:

	(H2S concentrations in decimal form)
X = [(1.589)(concentration)(Q)] (0.6258)	` 10,000 ppm +=1.+ ´
	1,000 ppm += 1+
Calculation for the 500 ppm ROE:	100 ppm +=.01+
	10 ppm +=.001+

X+[(0.4546)(concentration)(Q)] (.06258)

EXAMPLE: If a well/facility has been determined to have 150 ppm H₂S in the gas mixture and the well/facility is producing at a gas rate of 200 MCFPD then:

ROE for 100 PPM	X=[(1.589)(.0150)(200)] (0.6258)
	X=2.65'
ROE for 500 PPM	X=[(.4546)(.0150)(200)] (0.6258)
	X=1.2'

(These calculations will be forwarded to the appropriate District NMOCD office when applicable.)

PUBLIC EVACUATION PLAN:

(When the supervisor has determined that the General Public will be involved, the following plan will be implemented)

- 1) Notification of the emergency response agencies of the hazardous condition and Implement evacuation procedures.
- 2) A trained person in H₂S safety, shall monitor with detection equipment the H₂S Concentration, wind and area of exposure (ROE). This person will determine the outer perimeter of the hazardous area. The extent of the evacuation area will be determined from the data being collected. Monitoring shall continue until the situation has been resolved. (All monitoring equipment will be UL approved, for use in class I groups A,B,C & D, Division I, hazardous locations. All monitors will have a minimum capability of measuring H₂S, oxygen, and flammable values.)
- 3) Law enforcement shall be notified to set up necessary barriers and maintain such for the duration of the situation as well as aid in the evacuation procedure.
- 4) The company supervising personnel shall stay in communication with all agencies through out the duration of the situation and inform such agencies when the situation has been contained and the effected area(s) is safe to enter.

CHARACTERISTICS OF H₂S AND SO₂

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
Hydrogen		1.189			
Sulfide	H₂S	Air = 1	10 ppm	100 ppm	600 ppm
		2.21			
Sulfur Dioxide	SO ₂	Air = 1	2 ppm	N/A	1000 ppm

TRAINING:

All responders must have training in the detection of H₂S measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H₂S monitors at all times.

PUBLIC RELATIONS

Kaiser-Francis recognizes that the news media have a legitimate interest in incidents at Kaiser-Francis facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these media are our best liaison with the public.

Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

All contract and Kaiser-Francis employees are instructed **NOT** to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for any information concerning the incident.

Kaiser Francis

KAISER-FEANCES OIL COMBANY

Bell Lake Unit North 419H Bell Lake Unit North 419H Bell Lake Unit North 419H Bell Lake Unit North 419H

Plan: 191213 Bell Lake Unit North 419H

Morcor Standard Plan

13 December, 2019

Morcor Engineering

Morcor	Stand	lard	Plan
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Project: Site: Well: Wellbore:	Kaiser Francis Bell Lake Unit Nort Bell Lake Unit Nort Bell Lake Unit Nort Bell Lake Unit Nort 191213 Bell Lake L	h 419H h 419H h 419H			TVD Refere MD Refere North Refe	nce:	Well Bell Lake Unit Nort WELL @ 3550.5usft (O WELL @ 3550.5usft (O Grid Minimum Curvature EDM 5000.1 Single Use	riginal Well Elev) riginal Well Elev)
Project	Bell La	ke Unit North 419H						
Map System: Geo Datum: Map Zone:	US State Plane North American New Mexico Ea	Datum 1983			System D	atum:	Mean Sea Level	
Site	Bell La	ke Unit North 419H						
Site Position: From: Position Uncertain	Map ty:	1.0 usft	Northing Easting: Slot Rac	:	485,427.10 ust 788,408.75 ust 17-1/2 "		gence:	32° 19' 55.110 N 103° 32' 0.291 W 0.43 °
Well	Bell La	ke Unit North 419H						
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		485,427.10 usft 788,408.75 usft	L	atitude: ongitude:	32° 19' 55.110 N 103° 32' 0.291 W
Position Uncertain	ty	1.0 usft	Wellhead E	levation:	usft	G	round Level:	3,528.5 usft
Wellbore	Bell La	ke Unit North 419H						
Magnetics	Model Na		Declination (°)		Dip Angle (°)	Field Strength (nT)		
	IGF	RF2010 12/13/2019		6.52	60.07	47,834		
Design	191213	3 Bell Lake Unit North 419H						
Audit Notes: Version:		Phase:	PLAN	Tie On De	pth: 0.0			
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)			
		0.0	0.0	0.0	359.37			
Survey Tool Progra	То	12/13/2019						
(usft)	(usft)	Survey (Wellbore)	Tool Nam	e	Description			
0.	0 20,068.8	191213 Bell Lake Unit North 419	H (Bell La MWD		MWD - Standard			

12/13/2019 8:01:39AM

KASER PRANCES OF, COMPANY

Page 2

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

	~
Planned	Survey

RASER-PRANES OF COMPANY

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	-3,550.5	0.0	0.0	788,408.75	485,427.10	0.00	0
100.0	0.00	0.00	100.0	-3,450.5	0.0	0.0	788,408.75	485,427.10	0.00	0
120.0	0.00	0.00	120.0	-3,430.5	0.0	0.0	788,408.75	485,427.10	0.00	0
20" Conductor										
200.0	0.00	0.00	200.0	-3,350.5	0.0	0.0	788,408.75	485,427.10	0.00	0
300.0	0.00	0.00	300.0	-3,250.5	0.0	0.0	788,408.75	485,427.10	0.00	0
400.0	0.00	0.00	400.0	-3,150.5	0.0	0.0	788,408.75	485,427.10	0.00	0
500.0	0.00	0.00	500.0	-3,050.5	0.0	0.0	788,408.75	485,427.10	0.00	0
600.0	0.00	0.00	600.0	-2,950.5	0.0	0.0	788,408.75	485,427.10	0.00	C
700.0	0.00	0.00	700.0	-2,850.5	0.0	0.0	788,408.75	485,427.10	0.00	C
800.0	0.00	0.00	800.0	-2,750.5	0.0	0.0	788,408.75	485,427.10	0.00	C
900.0	0.00	0.00	900.0	-2,650.5	0.0	0.0	788,408.75	485,427.10	0.00	(
1,000.0	0.00	0.00	1,000.0	-2,550.5	0.0	0.0	788,408.75	485,427.10	0.00	C
1,100.0	0.00	0.00	1,100.0	-2,450.5	0.0	0.0	788,408.75	485,427.10	0.00	C
1,200.0	0.00	0.00	1,200.0	-2,350.5	0.0	0.0	788,408.75	485,427.10	0.00	C
1,248.0	0.00	0.00	1,248.0	-2,302.5	0.0	0.0	788,408.75	485,427.10	0.00	C
Rustler										
1,300.0	0.00	0.00	1,300.0	-2,250.5	0.0	0.0	788,408.75	485,427.10	0.00	C
1,400.0	0.00	0.00	1,400.0	-2,150.5	0.0	0.0	788,408.75	485,427.10	0.00	(
1,500.0	0.00	0.00	1,500.0	-2,050.5	0.0	0.0	788,408.75	485,427.10	0.00	0
1,600.0	0.00	0.00	1,600.0	-1,950.5	0.0	0.0	788,408.75	485,427.10	0.00	(
10 3/4" Surface C										
1,645.0	0.00	0.00	1,645.0	-1,905.5	0.0	0.0	788,408.75	485,427.10	0.00	(
Salado										
1,700.0	0.00	0.00	1,700.0	-1,850.5	0.0	0.0	788,408.75	485,427.10	0.00	(
1,800.0	0.00	0.00	1,800.0	-1,750.5	0.0	0.0	788,408.75	485,427.10	0.00	(
1,900.0	0.00	0.00	1,900.0	-1,650.5	0.0	0.0	788,408.75	485,427.10	0.00	(

12/13/2019 8:01:39AM

Page 3

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

Planned Survey

KASER PRANCES OF, COMPANY

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
1,972.0	0.00	0.00	1,972.0	-1,578.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
Top of Salt										
2,000.0	0.00	0.00	2,000.0	-1,550.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,100.0	0.00	0.00	2,100.0	-1,450.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,200.0	0.00	0.00	2,200.0	-1,350.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,300.0	0.00	0.00	2,300.0	-1,250.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,400.0	0.00	0.00	2,400.0	-1,150.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,500.0	0.00	0.00	2,500.0	-1,050.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,600.0	0.00	0.00	2,600.0	-950.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,700.0	0.00	0.00	2,700.0	-850.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,800.0	0.00	0.00	2,800.0	-750.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2,900.0	0.00	0.00	2,900.0	-650.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,000.0	0.00	0.00	3,000.0	-550.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,100.0	0.00	0.00	3,100.0	-450.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,200.0	0.00	0.00	3,200.0	-350.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,300.0	0.00	0.00	3,300.0	-250.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,400.0	0.00	0.00	3,400.0	-150.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,500.0	0.00	0.00	3,500.0	-50.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,600.0	0.00	0.00	3,600.0	49.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,700.0	0.00	0.00	3,700.0	149.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,800.0	0.00	0.00	3,800.0	249.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
3,900.0	0.00	0.00	3,900.0	349.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,000.0	0.00	0.00	4,000.0	449.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,100.0	0.00	0.00	4,100.0	549.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,200.0	0.00	0.00	4,200.0	649.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,300.0	0.00	0.00	4,300.0	749.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,400.0	0.00	0.00	4,400.0	849.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00

12/13/2019 8:01:39AM

Page 4

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

PI	anned	Survey

EASER-PEANERS OF COMPANY

MD	Inc	Azi (azimuth)	TVD	TVDSS	N/S	E/W	Easting	Northing	V. Sec	DLeg
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
4,500.0	0.00	0.00	4,500.0	949.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,600.0	0.00	0.00	4,600.0	1,049.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,700.0	0.00	0.00	4,700.0	1,149.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,800.0	0.00	0.00	4,800.0	1,249.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,900.0	0.00	0.00	4,900.0	1,349.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
4,972.0	0.00	0.00	4,972.0	1,421.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
Base of Salt										
5,000.0	0.00	0.00	5,000.0	1,449.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,100.0	0.00	0.00	5,100.0	1,549.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,200.0	0.00	0.00	5,200.0	1,649.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,222.0	0.00	0.00	5,222.0	1,671.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
Lamar										
5,300.0	0.00	0.00	5,300.0	1,749.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,400.0	0.00	0.00	5,400.0	1,849.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,500.0	0.00	0.00	5,500.0	1,949.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,522.0	0.00	0.00	5,522.0	1,971.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
Bell Canyon										
5,600.0	0.00	0.00	5,600.0	2,049.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,700.0	0.00	0.00	5,700.0	2,149.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,800.0	0.00	0.00	5,800.0	2,249.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
5,900.0	0.00	0.00	5,900.0	2,349.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
6,000.0	0.00	0.00	6,000.0	2,449.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
6,100.0	0.00	0.00	6,100.0	2,549.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
6,200.0	0.00	0.00	6,200.0	2,649.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
6,300.0	0.00	0.00	6,300.0	2,749.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
6,400.0	0.00	0.00	6,400.0	2,849.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
6,500.0	0.00	0.00	6,500.0	2,949.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00

12/13/2019 8:01:39AM

Page 5

Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Bell Lake Unit North 419H	North Reference:	Grid
Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db
	Bell Lake Unit North 419H Bell Lake Unit North 419H Bell Lake Unit North 419H Bell Lake Unit North 419H	Bell Lake Unit North 419H TVD Reference: Bell Lake Unit North 419H MD Reference: Bell Lake Unit North 419H North Reference: Bell Lake Unit North 419H Survey Calculation Method:

Planned Survey

RASER-PRANCES OF COMPANY

incu ourvey										
MD (usft)	lnc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
6,600.0	0.00	0.00	6,600.0	3,049.5	0.0	0.0	788,408.75	485,427.10	0.00	0
6,700.0	0.00	0.00	6,700.0	3,149.5	0.0	0.0	788,408.75	485,427.10	0.00	C
6,722.0	0.00	0.00	6,722.0	3,171.5	0.0	0.0	788,408.75	485,427.10	0.00	(
Cherry Canyon										
6,800.0	0.00	0.00	6,800.0	3,249.5	0.0	0.0	788,408.75	485,427.10	0.00	
6,900.0	0.00	0.00	6,900.0	3,349.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,000.0	0.00	0.00	7,000.0	3,449.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,100.0	0.00	0.00	7,100.0	3,549.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,200.0	0.00	0.00	7,200.0	3,649.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,300.0	0.00	0.00	7,300.0	3,749.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,400.0	0.00	0.00	7,400.0	3,849.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,500.0	0.00	0.00	7,500.0	3,949.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,600.0	0.00	0.00	7,600.0	4,049.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,700.0	0.00	0.00	7,700.0	4,149.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,800.0	0.00	0.00	7,800.0	4,249.5	0.0	0.0	788,408.75	485,427.10	0.00	
7,900.0	0.00	0.00	7,900.0	4,349.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,000.0	0.00	0.00	8,000.0	4,449.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,100.0	0.00	0.00	8,100.0	4,549.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,200.0	0.00	0.00	8,200.0	4,649.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,300.0	0.00	0.00	8,300.0	4,749.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,400.0	0.00	0.00	8,400.0	4,849.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,423.0	0.00	0.00	8,423.0	4,872.5	0.0	0.0	788,408.75	485,427.10	0.00	
Brushy Canyon										
8,500.0	0.00	0.00	8,500.0	4,949.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,600.0	0.00	0.00	8,600.0	5,049.5	0.0	0.0	788,408.75	485,427.10	0.00	
8,647.0	0.00	0.00	8,647.0	5,096.5	0.0	0.0	788,408.75	485,427.10	0.00	
Bone Spring										

12/13/2019 8:01:39AM

Page 6

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

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P	lan	ned	Su	vev

KASHR-PRANCIS OR, COMPANY

MD	Inc	Azi (azimuth)	TVD	TVDSS	N/S	E/W	Easting	Northing	V. Sec	DLeg
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
8,700.0	0.00	0.00	8,700.0	5,149.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
8,800.0	0.00	0.00	8,800.0	5,249.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
8,900.0	0.00	0.00	8,900.0	5,349.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,000.0	0.00	0.00	9,000.0	5,449.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,010.0	0.00	0.00	9,010.0	5,459.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
Avalon										
9,100.0	0.00	0.00	9,100.0	5,549.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,200.0	0.00	0.00	9,200.0	5,649.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,300.0	0.00	0.00	9,300.0	5,749.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,400.0	0.00	0.00	9,400.0	5,849.5	0.0	0.0	788,408.75	485,427.10	0.00	0.0
9,500.0	0.00	0.00	9,500.0	5,949.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,600.0	0.00	0.00	9,600.0	6,049.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,700.0	0.00	0.00	9,700.0	6,149.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,800.0	0.00	0.00	9,800.0	6,249.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,900.0	0.00	0.00	9,900.0	6,349.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
9,998.0	0.00	0.00	9,998.0	6,447.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
1st BS Sand										
10,000.0	0.00	0.00	10,000.0	6,449.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
10,100.0	0.00	0.00	10,100.0	6,549.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
10,200.0	0.00	0.00	10,200.0	6,649.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
10,300.0	0.00	0.00	10,300.0	6,749.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
10,400.0	0.00	0.00	10,400.0	6,849.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
10,500.0	0.00	0.00	10,500.0	6,949.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
10,523.0	0.00	0.00	10,523.0	6,972.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
2nd BS Sand										
10,600.0	0.00	0.00	10,600.0	7,049.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00
10,700.0	0.00	0.00	10,700.0	7,149.5	0.0	0.0	788,408.75	485,427.10	0.00	0.00

12/13/2019 8:01:39AM

Page 7

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

Planned Survey

KASER-PRANCES OF COMPANY

MD (usft)	lnc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
10,800.0	0.00	0.00	10,800.0	7,249.5	0.0	0.0	788,408.75	485,427.10	0.00	0.
Start Build 3.00										
10,900.0	3.00	220.00	10,900.0	7,349.5	-2.0	-1.7	788,407.07	485,425.09	-1.99	3
11,000.0	6.00	220.00	10,999.6	7,449.1	-8.0	-6.7	788,402.02	485,419.09	-7.94	3
Start 200.0 hold										
11,048.6	6.00	220.00	11,048.0	7,497.5	-11.9	-10.0	788,398.76	485,415.19	-11.80	0
3rd BS Lime										
11,100.0	6.00	220.00	11,099.1	7,548.6	-16.0	-13.4	788,395.31	485,411.08	-15.87	0
11,200.0	6.00	220.00	11,198.5	7,648.0	-24.0	-20.2	788,388.59	485,403.07	-23.81	0
Start Drop -3.00										
11,300.0	3.00	220.00	11,298.2	7,747.7	-30.0	-25.2	788,383.54	485,397.06	-29.76	3
11,379.8	0.61	220.00	11,378.0	7,827.5	-32.0	-26.8	788,381.93	485,395.14	-31.67	3
7 5/8" Intermedi										
11,400.0	0.00	0.00	11,398.2	7,847.7	-32.0	-26.9	788,381.86	485,395.06	-31.75	3
Start 100.0 hold	at 11400.0 MD									
11,500.0	0.00	0.00	11,498.2	7,947.7	-32.0	-26.9	788,381.86	485,395.06	-31.75	C
Start Build 10.0	2									
11,575.0	7.52	359.57	11,573.0	8,022.5	-27.1	-26.9	788,381.83	485,399.97	-26.83	10
3rd BS Sand										
11,600.0	10.02	359.57	11,597.7	8,047.2	-23.3	-27.0	788,381.80	485,403.78	-23.02	10
11,700.0	20.04	359.57	11,694.1	8,143.6	2.6	-27.1	788,381.60	485,429.68	2.87	10
11,800.0	30.06	359.57	11,784.6	8,234.1	44.9	-27.5	788,381.29	485,471.96	45.16	10
11,900.0	40.08	359.57	11,866.3	8,315.8	102.2	-27.9	788,380.86	485,529.35	102.55	10
11,908.8	40.96	359.57	11,873.0	8,322.5	107.9	-27.9	788,380.82	485,535.04	108.24	10
Wolfcamp										
12,000.0	50.10	359.57	11,936.8	8,386.3	173.0	-28.4	788,380.34	485,600.08	173.28	10
12,100.0	60.12	359.57	11,994.0	8,443.5	254.9	-29.0	788,379.73	485,681.99	255.20	10
12,200.0	70.14	359.57	12,036.0	8,485.5	345.5	-29.7	788,379.06	485,772.60	345.81	10
12,300.0	80.16	359.57	12,061.6	8,511.1	442.0	-30.4	788,378.34	485,869.14	442.35	10

12/13/2019 8:01:39AM

Page 8

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

Planned Survey

KASEL-FRANCE OF COMPANY

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
12,369.5	87.13	359.57	12,069.3	8,518.8	511.1	-30.9	788,377.83	485,938.17	511.38	1
Start DLS 1.93										
12,400.0	87.71	359.57	12,070.6	8,520.1	541.5	-31.2	788,377.60	485,968.63	541.84	
12,500.0	89.64	359.56	12,072.9	8,522.4	641.5	-31.9	788,376.84	486,068.60	641.81	
12,518.5	90.00	359.56	12,073.0	8,522.5	660.0	-32.1	788,376.70	486,087.06	660.27	
Start 7550.3 h	old at 12518.5 MD									
12,600.0	90.00	359.56	12,073.0	8,522.5	741.5	-32.7	788,376.07	486,168.60	741.81	
12,700.0	90.00	359.56	12,073.0	8,522.5	841.5	-33.4	788,375.30	486,268.59	841.81	
12,800.0	90.00	359.56	12,073.0	8,522.5	941.5	-34.2	788,374.53	486,368.59	941.81	
12,900.0	90.00	359.56	12,073.0	8,522.5	1,041.5	-35.0	788,373.76	486,468.59	1,041.81	
13,000.0	90.00	359.56	12,073.0	8,522.5	1,141.5	-35.8	788,372.99	486,568.58	1,141.81	
13,100.0	90.00	359.56	12,073.0	8,522.5	1,241.5	-36.5	788,372.22	486,668.58	1,241.81	
13,200.0	90.00	359.56	12,073.0	8,522.5	1,341.5	-37.3	788,371.45	486,768.58	1,341.81	
13,300.0	90.00	359.56	12,073.0	8,522.5	1,441.5	-38.1	788,370.68	486,868.58	1,441.81	
13,400.0	90.00	359.56	12,073.0	8,522.5	1,541.5	-38.8	788,369.90	486,968.57	1,541.81	
13,500.0	90.00	359.56	12,073.0	8,522.5	1,641.5	-39.6	788,369.13	487,068.57	1,641.81	
13,600.0	90.00	359.56	12,073.0	8,522.5	1,741.5	-40.4	788,368.36	487,168.57	1,741.81	
13,700.0	90.00	359.56	12,073.0	8,522.5	1,841.5	-41.2	788,367.59	487,268.56	1,841.81	
13,800.0	90.00	359.56	12,073.0	8,522.5	1,941.5	-41.9	788,366.82	487,368.56	1,941.80	
13,900.0	90.00	359.56	12,073.0	8,522.5	2,041.5	-42.7	788,366.05	487,468.56	2,041.80	
14,000.0	90.00	359.56	12,073.0	8,522.5	2,141.5	-43.5	788,365.28	487,568.56	2,141.80	
14,100.0	90.00	359.56	12,073.0	8,522.5	2,241.5	-44.2	788,364.51	487,668.55	2,241.80	
14,200.0	90.00	359.56	12,073.0	8,522.5	2,341.4	-45.0	788,363.74	487,768.55	2,341.80	
14,300.0	90.00	359.56	12,073.0	8,522.5	2,441.4	-45.8	788,362.97	487,868.55	2,441.80	
14,400.0	90.00	359.56	12,073.0	8,522.5	2,541.4	-46.6	788,362.20	487,968.54	2,541.80	
14,500.0	90.00	359.56	12,073.0	8,522.5	2,641.4	-47.3	788,361.43	488,068.54	2,641.80	
14,600.0	90.00	359.56	12,073.0	8,522.5	2,741.4	-48.1	788.360.65	488,168.54	2,741.80	

12/13/2019 8:01:39AM

Page 9

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature

191213 Bell Lake Unit North 419H EDM 5000.1 Single User Db Design: Database: Planned Survey TVDSS TVD N/S E/W Easting V. Sec MD Azi (azimuth) Northing DLeg Inc

(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
14,700.0	90.00	359.56	12,073.0	8,522.5	2,841.4	-48.9	788,359.88	488,268.53	2,841.80	0.00
14,800.0	90.00	359.56	12,073.0	8,522.5	2,941.4	-49.6	788,359.11	488,368.53	2,941.80	0.00
14,900.0	90.00	359.56	12,073.0	8,522.5	3,041.4	-50.4	788,358.34	488,468.53	3,041.80	0.00
15,000.0	90.00	359.56	12,073.0	8,522.5	3,141.4	-51.2	788,357.57	488,568.53	3,141.80	0.00
15,100.0	90.00	359.56	12,073.0	8,522.5	3,241.4	-51.9	788,356.80	488,668.52	3,241.80	0.00
15,200.0	90.00	359.56	12,073.0	8,522.5	3,341.4	-52.7	788,356.03	488,768.52	3,341.80	0.00
15,300.0	90.00	359.56	12,073.0	8,522.5	3,441.4	-53.5	788,355.26	488,868.52	3,441.80	0.00
15,400.0	90.00	359.56	12,073.0	8,522.5	3,541.4	-54.3	788,354.49	488,968.51	3,541.80	0.00
15,500.0	90.00	359.56	12,073.0	8,522.5	3,641.4	-55.0	788,353.72	489,068.51	3,641.80	0.00
15,600.0	90.00	359.56	12,073.0	8,522.5	3,741.4	-55.8	788,352.95	489,168.51	3,741.80	0.00
15,700.0	90.00	359.56	12,073.0	8,522.5	3,841.4	-56.6	788,352.18	489,268.50	3,841.79	0.00
15,800.0	90.00	359.56	12,073.0	8,522.5	3,941.4	-57.3	788,351.40	489,368.50	3,941.79	0.00
15,900.0	90.00	359.56	12,073.0	8,522.5	4,041.4	-58.1	788,350.63	489,468.50	4,041.79	0.00
16,000.0	90.00	359.56	12,073.0	8,522.5	4,141.4	-58.9	788,349.86	489,568.50	4,141.79	0.00
16,100.0	90.00	359.56	12,073.0	8,522.5	4,241.4	-59.7	788,349.09	489,668.49	4,241.79	0.00
16,200.0	90.00	359.56	12,073.0	8,522.5	4,341.4	-60.4	788,348.32	489,768.49	4,341.79	0.00
16,300.0	90.00	359.56	12,073.0	8,522.5	4,441.4	-61.2	788,347.55	489,868.49	4,441.79	0.00
16,400.0	90.00	359.56	12,073.0	8,522.5	4,541.4	-62.0	788,346.78	489,968.48	4,541.79	0.00
16,500.0	90.00	359.56	12,073.0	8,522.5	4,641.4	-62.7	788,346.01	490,068.48	4,641.79	0.00
16,600.0	90.00	359.56	12,073.0	8,522.5	4,741.4	-63.5	788,345.24	490,168.48	4,741.79	0.00
16,700.0	90.00	359.56	12,073.0	8,522.5	4,841.4	-64.3	788,344.47	490,268.47	4,841.79	0.00
16,800.0	90.00	359.56	12,073.0	8,522.5	4,941.4	-65.1	788,343.70	490,368.47	4,941.79	0.00
16,900.0	90.00	359.56	12,073.0	8,522.5	5,041.4	-65.8	788,342.93	490,468.47	5,041.79	0.00
17,000.0	90.00	359.56	12,073.0	8,522.5	5,141.4	-66.6	788,342.16	490,568.47	5,141.79	0.00
17,100.0	90.00	359.56	12,073.0	8,522.5	5,241.4	-67.4	788,341.38	490,668.46	5,241.79	0.00
17,200.0	90.00	359.56	12,073.0	8,522.5	5,341.4	-68.1	788,340.61	490,768.46	5,341.79	0.00
17,300.0	90.00	359.56	12,073.0	8,522.5	5,441.4	-68.9	788,339.84	490,868.46	5,441.79	0.00

12/13/2019 8:01:39AM

KASER-PRANCES OF COMPANY

Page 10

Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

KASER PRANCES OF, COMPANY

lanned Survey										
MD (usft)	lnc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
17,400.0	90.00	359.56	12,073.0	8,522.5	5,541.4	-69.7	788,339.07	490,968.45	5,541.79	C
17,500.0	90.00	359.56	12,073.0	8,522.5	5,641.4	-70.4	788,338.30	491,068.45	5,641.78	0
17,600.0	90.00	359.56	12,073.0	8,522.5	5,741.3	-71.2	788,337.53	491,168.45	5,741.78	C
17,700.0	90.00	359.56	12,073.0	8,522.5	5,841.3	-72.0	788,336.76	491,268.45	5,841.78	0
17,800.0	90.00	359.56	12,073.0	8,522.5	5,941.3	-72.8	788,335.99	491,368.44	5,941.78	0
17,900.0	90.00	359.56	12,073.0	8,522.5	6,041.3	-73.5	788,335.22	491,468.44	6,041.78	C
18,000.0	90.00	359.56	12,073.0	8,522.5	6,141.3	-74.3	788,334.45	491,568.44	6,141.78	C
18,100.0	90.00	359.56	12,073.0	8,522.5	6,241.3	-75.1	788,333.68	491,668.43	6,241.78	C
18,200.0	90.00	359.56	12,073.0	8,522.5	6,341.3	-75.8	788,332.91	491,768.43	6,341.78	(
18,300.0	90.00	359.56	12,073.0	8,522.5	6,441.3	-76.6	788,332.13	491,868.43	6,441.78	(
18,400.0	90.00	359.56	12,073.0	8,522.5	6,541.3	-77.4	788,331.36	491,968.42	6,541.78	0
18,500.0	90.00	359.56	12,073.0	8,522.5	6,641.3	-78.2	788,330.59	492,068.42	6,641.78	C
18,600.0	90.00	359.56	12,073.0	8,522.5	6,741.3	-78.9	788,329.82	492,168.42	6,741.78	C
18,700.0	90.00	359.56	12,073.0	8,522.5	6,841.3	-79.7	788,329.05	492,268.42	6,841.78	C
18,800.0	90.00	359.56	12,073.0	8,522.5	6,941.3	-80.5	788,328.28	492,368.41	6,941.78	0
18,900.0	90.00	359.56	12,073.0	8,522.5	7,041.3	-81.2	788,327.51	492,468.41	7,041.78	0
19,000.0	90.00	359.56	12,073.0	8,522.5	7,141.3	-82.0	788,326.74	492,568.41	7,141.78	C
19,100.0	90.00	359.56	12,073.0	8,522.5	7,241.3	-82.8	788,325.97	492,668.40	7,241.78	C
19,200.0	90.00	359.56	12,073.0	8,522.5	7,341.3	-83.6	788,325.20	492,768.40	7,341.78	C
19,300.0	90.00	359.56	12,073.0	8,522.5	7,441.3	-84.3	788,324.43	492,868.40	7,441.78	0
19,400.0	90.00	359.56	12,073.0	8,522.5	7,541.3	-85.1	788,323.66	492,968.39	7,541.77	0
19,500.0	90.00	359.56	12,073.0	8,522.5	7,641.3	-85.9	788,322.88	493,068.39	7,641.77	C
19,600.0	90.00	359.56	12,073.0	8,522.5	7,741.3	-86.6	788,322.11	493,168.39	7,741.77	C
19,700.0	90.00	359.56	12,073.0	8,522.5	7,841.3	-87.4	788,321.34	493,268.39	7,841.77	C
19,800.0	90.00	359.56	12,073.0	8,522.5	7,941.3	-88.2	788,320.57	493,368.38	7,941.77	C
19,900.0	90.00	359.56	12,073.0	8,522.5	8,041.3	-88.9	788,319.80	493,468.38	8,041.77	C
20,000.0	90.00	359.56	12,073.0	8,522.5	8,141.3	-89.7	788,319.03	493,568.38	8,141.77	C

COMPASS 5000.1 Build 56

0.00 0.00

	KASEL-PRANCE OF COMPANY
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Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
20,068.8	90.00	359.56	12,073.0	8,522.5	8,210.1	-90.2	788,318.50	493,637.15	8,210.55	0.00
TD at 20068.8										

Casing Dainta

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter ('')	Hole Diameter (")
	120.0		20" Conductor	20	26
	1,600.0		10 3/4" Surface Casing	10-3/4	12-1/4
			Ũ		
	11,379.8		7 5/8" Intermediate Casing	7-5/8	9-7/8
	20,068.8	12,073.0	5 1/2" Production Casing	5-1/2	6-3/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	1	Name	Lithology	Dip (°)	Dip Direction (°)	
11,048.6	11,048.0	3rd BS Lime			0.00		
1,645.0	1,645.0	Salado			0.00		
1,248.0	1,248.0	Rustler			0.00		
9,010.0	9,010.0	Avalon			0.00		
9,998.0	9,998.0	1st BS Sand			0.00		
5,522.0	5,522.0	Bell Canyon			0.00		
5,222.0	5,222.0	Lamar			0.00		
8,423.0	8,423.0	Brushy Canyon			0.00		
10,523.0	10,523.0	2nd BS Sand			0.00		
11,575.0	11,573.0	3rd BS Sand			0.00		
6,722.0	6,722.0	Cherry Canyon			0.00		
8,647.0	8,647.0	Bone Spring			0.00		
1,972.0	1,972.0	Top of Salt			0.00		
11,908.8	11,873.0	Wolfcamp			0.00		
4,972.0	4,972.0	Base of Salt			0.00		

12/13/2019 8:01:39AM

Page 12

COMPASS 5000.1 Build 56

Morcor Engineering

Morcor	Standa	ard Plan	
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Company:	Kaiser Francis	Local Co-ordinate Reference:	Well Bell Lake Unit North 419H
Project:	Bell Lake Unit North 419H	TVD Reference:	WELL @ 3550.5usft (Original Well Elev)
Site:	Bell Lake Unit North 419H	MD Reference:	WELL @ 3550.5usft (Original Well Elev)
Well:	Bell Lake Unit North 419H	North Reference:	Grid
Wellbore:	Bell Lake Unit North 419H	Survey Calculation Method:	Minimum Curvature
Design:	191213 Bell Lake Unit North 419H	Database:	EDM 5000.1 Single User Db

Plan Annotations

RASER-PRANCES OF COMPANY

Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
10,800.0	10,800.0	0.0	0.0	Start Build 3.00
11,000.0	10,999.6	-8.0	-6.7	Start 200.0 hold at 11000.0 MD
11,200.0	11,198.5	-24.0	-20.2	Start Drop -3.00
11,400.0	11,398.2	-32.0	-26.9	Start 100.0 hold at 11400.0 MD
11,500.0	11,498.2	-32.0	-26.9	Start Build 10.02
12,369.5	12,069.3	511.1	-30.9	Start DLS 1.93 TFO -0.32
12,518.5	12,073.0	660.0	-32.1	Start 7550.3 hold at 12518.5 MD
20,068.8	12,073.0	8,210.1	-90.2	TD at 20068.8

Checked By:

Approved By:

Date:

Page 13

District I 1625 N. French Dr., Hol Phone: (575) 393-6161 District II 811 S. First St., Artesia, Phone: (575) 748-1283 J District III 1000 Rio Brazos Road, Phone: (505) 334-6178 J District IV 1220 S. St. Francis Dr., Phone: (505) 476-3460 J	Energ	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION ^{Su} 1220 South St. Francis Dr. Santa Fc, NM 87505 OCD - HOBBS 10/06/2020 RECEIVED						omit one	Form C-102 ised August 1, 2011 copy to appropriate District Office IENDED REPORT		
WELL LOCATION AND ACREAGE DEDICATION PLAT											
	PI Numbe	r		² Pool Code			³ Pool Name				
30-025-	30-025-47817			982	265	Ojo Chiso; Wolfcamp, S					
⁴ Property Code				⁵ Property Name ⁶ Well Number						Well Number	
31670		BELL LAKE UNIT NORTH 419H							419H		
⁷ OGRID No.				⁸ Operator Name ⁹ Elevation						⁹ Elevation	
12361				KAISER-FRANCIS OIL CO. 3528.5						3528.5	
					10 Su	rface	e Location				
UL or lot no.	Section	Townsh	ip Range	Lot Ic	In Feet from	n the	North/South line	Feet from the	East/W	est line	County
L	1	23 S	33 E		2418	3	SOUTH	380	WE	ST	LEA
			пВ	ottom	Hole Loca	tion	If Different Fr	om Surface			
UL or lot no.	Section	Townshi	ip Range	Lot Ic	In Feet from	n the	North/South line	Feet from the	East/W	est line	County
D	36	22 S	33 E		330		NORTH	350	WEST		LEA
¹² Dedicated Acres	¹³ Joint	or Infill	¹⁴ Consolidation	n Code			1	¹⁵ Order No.			
480							R-146	02A			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	N89'42'02"E 2649.25 FT N89'43'36"E 2640.45 FT		" OPERATOR CERTIFICATION
NW CORNER SEC. 36 LAT. = 32.3554518'N		NE CORNER SEC. 36 LAT. = 32.3554148'N	I hereby certify that the information contained herein is true and complete to the
LONG. = 103.5346457'W	LONG. = 103.5260684'W	E LONG. = 103.5175197'₩	best of my knowledge and belief, and that this organization either owns a
NMSP EAST (FT) 또 N = 493965.14 당 E = 787964.68 왕	BHL NMSP EAST (FT) N = 493978.97	영 NMSP EAST (FT) 얒 N = 493991.56 왕 E = 793253.27	working interest or unleased mineral interest in the land including the proposed
E = 787964.68 😪	E = 79p613.37	ଞ୍ଚ E = 793253.27	bottom hole location or has a right to drill this well at this location pursuant to
22 W		'52"E	a contract with an owner of such a mineral or working interest, or to a
W/4 CORNER SEC. 36 호	BOTTOM OF HOLE LAT. = 32.3545430'N		voluntary pooling agreement or a compulsory pooling order heretofore entered
LAT. = 32.3481909'N	LONG. = 103.5335079 W	S E/4 CORNER SEC. 36 LAT. = 32.3481596'N	by the division.
LONG. = 103.5346090'W NMSP EAST (FT)		LONG. = 103.5175056'W NMSP EAST (FT)	Melanie Wilson 01/13/2020
N = 491323.69 E = 787995.70	E = 788318.5D	N = 491352.12 E = 793277.73	Signature Date
4	LATITUDE AND LONGITUDE COORDINATES	24	Signade Date
2639.	N00'26'30"W ARE SHOWN USING THE NORTH 7551.64 FT USIED NEW MEXICO. STATE PLANE	2541.	Melanie Wilson
2	EAST COORDINATES ARE GRID (NAD83).	45"E	Printed Name
VOC 27*46"W	USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVDBB.	S00'27'4	mjp1692@gmail.com
OQN	SURFACE. VERTICAL DATUM NAVD88.	SOC	E-mail Address
NW CORNER SEC. 1	N89'43'01"E 2641.32 FT N89'42'43"E 2641.83 FT	NE CORNER SEC. 1	
LAT. = 32.3409374'N	N/4 CORNER SEC. 1 LAT. = 32.3409188 N	LAT. = 32.3409003'N	*SURVEYOR CERTIFICATION
LONG. = 103.5346038 W E NMSP EAST (FT) 5	LONG. = 103.9260536 W LONG. = 103.9260536 W L4 NMSP EAST (FT) L2 L1	는 LONG. = 103.5175017'W 등 NMSP EAST (FT)	I hereby certify that the well location shown on this plat was
N = 488684.86 E = 788017.01	N = 488697.91	♀ N = 488711.19 ♀ E = 793299.05	plotted from field notes of actual surveys made by me or under
	2600' FNL, 350' FWL	<u>ш</u>	
12 ^{'54} "W	LAT. = 32.3537897'N LONG. = 103.5335020'W	24'43"	my supervision, and that the same is true and correct to the
W/4 CORNER SEC. 1	FTP N07'01'27"W NMSP EAST (FT) 262.08 FT N = 486087.06	B E/4 CORNER SEC. 1	best of my belief.
LAT. = 32.3336804'N LONG. = 103.5346354'W	E = 788376.70	LAT. = 32.3336453'N LONG. = 103.5175054'W	MARCH 26, 2019
NMSP EAST (FT)	380'	NMSP EAST (FT)	Date of Survey JARAMIL
E = 788026.92	BEIL LAKE UNIT NORTH 419H ELEV. = 3528.5'	N = 486071.77 E = 793318.03	A CALL
2637.46	LAT. = 32.3330746 ¹ N (NAD83) LONG. = 103.5334045 ^r W	2640.23	A MEXICO AS
	3NMSP_EAST_(FT)		A tont A the in the
SW CORNER SEC. 1 ≥ LAT. = 32.3264324 N 🛱	N = 485827.10 S/4 CORNER SEC. 1 E = 788408.75 LAT. = 32,3264117N	SE CORNER SEC. 1	LEXTING VINES//////D/
LONG. = 103.5346254'W	LONG. = 103.5260688/W	S LONG. = 103.5175076'W	Signature and Sent of Professional Son Verter
N = 483407.85	N = 483420.12	N = 483432.13	Certificate Number FILIMON E JARAMILLO PLS 12797
E = 788049.66	E = 790692.86 S89'44'02"W 2643.75 FT S89'44'23"W 2645.14 FT	E = 793337.44	OTERD PROFESSURVEY NO. 7072
		And the second second and the interest of the second second second second second second second second second se	KUPRO!

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 OCD - HOBBS 10/06/2020

GAS CAPTURE PLAN

Date: 01/26/2018

 \boxtimes Original

Operator & OGRID No.: Kaiser-Francis Oil Company, 12361

□ Amended - Reason for Amendment:_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Bell Lake Unit North 219H		1-23S-33E		2000	0	
Bell Lake Unit North 220H		1-23S-33E	2508' FSL/380' FWL	2000	0	
Bell Lake Unit North 319H		1-23S-33E		<mark>2000</mark>	0	
Bell Lake Unit North 320H		1-23S-33E		<mark>2000</mark>	0	
Bell Lake Unit North 419H 30	-025-4781	7 ^{1-23S-33E}	2418' FSL/380' FWL	2000	0	
Bell Lake Unit North 420H		1-23S-33E	2388' FSL/380' FWL	2000	0	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Targa</u> and will be connected to <u>Targa</u> low/high pressure gathering system located in <u>Lea</u> County, New Mexico. It will require <u>11,000</u>' of pipeline to connect the facility to low/high pressure gathering system. <u>Kaiser-Francis Oil Company</u> provides (periodically) to <u>Targa</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Kaiser-Francis Oil Company</u> and <u>Targa</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Targa</u> Processing Plant located in Sec.<u>36</u>, Twn.<u>195</u>, Rng.<u>36E</u>, <u>Lea</u> County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Targa</u> system at that time. Based on current information, it is <u>Kaiser-Francis Oil Company's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines