Form 3160-3 (June 2015) UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MAT APPLICATION FOR PERMIT TO	INTERIOR	Г	BS 0 ≩D	OMB N		37 2018
1a. Type of work: Image: Completion: Image: DRILL Image: Completion: Image: Completio	REENTER Other Single Zone	Multiple Zone		7. If Unit or CA Ag BELL LAKE / NMI 8. Lease Name and BELL LAKE UNIT [316 408H	NM 0682 Well No.	
 Name of Operator KAISER FRANCIS OIL COMPANY [12361] 3a. Address 6733 S. Yale Ave., Tulsa, OK 74121 4. Location of Well (Report location clearly and in accordance At surface LOT 5 / 2086 FNL / 1057 FWL / LAT 32.3 At proposed prod. zone LOT 4 / 100 FSL / 1230 FWL / 	(918) 491- e with any State 335235 / LONC	e requirements.*) 6 -103.514082		9. API Well No. 30 10. Field and Pool, OJO CHISO/WOL 11. Sec., T. R. M. o SEC 6/T23S/R34E	or Explora FCAMP, or Blk. and	atory [98265] SOUTHWEST
14. Distance in miles and direction from nearest town or post of 20 miles				12. County or Paris	sh	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No of a 634.55	cres in lease	17. Spacin 480.0	ng Unit dedicated to t	this well	
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet 	19. Propose 11700 feet	ed Depth : / 19816 feet		/BIA Bond No. in file YB000055	;	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3482 feet	22. Approx 07/01/2020 24. Attac		start*	23. Estimated durat40 days	tion	
The following, completed in accordance with the requirements (as applicable)			, and the H	Hydraulic Fracturing 1	rule per 43	CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO must be filed with the appropriate Forest Service Official Surveyor) 		Item 20 above). 5. Operator certific	cation.	ns unless covered by a mation and/or plans a	-	
25. Signature (Electronic Submission)		e (Printed/Typed) ANIE WILSON / Ph	ı: (918) 49	91-0000	Date 02/03/20	020
Title Regulatory Analyst Approved by <i>(Signature)</i>	Norm	e (Printed/Typed)			Date	
(Electronic Submission) Title		Layton / Ph: (575)	234-5959		10/21/20	020
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applic applicant to conduct operations thereon. Conditions of approval, if any, are attached.	cant holds legal	bad Field Office or equitable title to th				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 of the United States any false, fictitious or fraudulent statemen					any depart	ment or agency

GCP Rec 10/27/2020

SL





*(Instructions on page 2)

(Continued on page 2)

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.

FMSS

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

Application Data Report

10/23/2020

APD ID: 10400053843

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Type: OIL WELL

Submission Date: 02/03/2020

Well Number: 408H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Submission Date: 02/03/2020

Section 1 - General

APD ID: 10400053843 **BLM Office:** CARLSBAD

Federal/Indian APD: FED

Lease number: NMNM0000587

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: 634.55
Allotted? Reservation:

Federal or Indian agreement: FEDERAL

Tie to previous NOS? N

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 n	ame:
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: 408H	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 propo	sed well in a Helium produc	ction area? N	Use Existing Well Pad	? N	New surface disturbance?
Type of Well	I Pad: MULTIPLE WELL		Multiple Well Pad Nam		Number: 6
Well Class:	HORIZONTAL		NORTH BELL LAKE UN Number of Legs: 1	IT	
Well Work T	ype: Drill				
Well Type: C	DIL WELL				
Describe We	ell Type:				
Well sub-Ty	pe: EXPLORATORY (WILDO	AT)			
Describe su	b-type:				
Distance to	town: 20 Miles	Distance to ne	arest well: 30 FT	Distanc	e to lease line: 554 FT
Reservoir w	ell spacing assigned acres	Measurement:	480 Acres		
Well plat:	BLUN_408H_C102_202001	29162750.pdf			
	BLUN_408H_Pymt_202001	29165323.pdf			
Well work st	art Date: 07/01/2020		Duration: 40 DAYS		

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number: 7641

Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL

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?
SHL Leg #1	208 6	FNL	105 7	FW L	23S	34E	6	Lot 5	32.33523 5	- 103.5140 82	LEA	NEW MEXI CO	NEW MEXI CO		NMNM 000124 4A	348 2	0	0	N
KOP Leg #1	213 0	FNL	130 5	FW L	23S	34E	6	Lot 5	32.33510 8	- 103.5132 79	LEA	NEW MEXI CO	NEW MEXI CO		NMNM 000124 4A	- 764 5	111 37	111 27	N

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 408H

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	264 0	FSL	130 4	FW L	23S	34E	6	Lot 6	32.33363 6	- 103.5132 95	LEA	NEW MEXI CO	NEW MEXI CO	F		- 821 6	119 97	116 98	Y
	260 0		130 0	FW L	23S	34E	6	Lot 6	32.33353 3	- 103.5132 96	LEA	NEW MEXI CO	NEW MEXI CO	F		- 821 8	120 37	117 00	Y
PPP Leg #1-3	0	FNL	130 0	FW L	23S	34E	7	Lot 1	32.32638 9	- 103.5133 75	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 065194		146 37	117 00	Y
	264 0	FSL	129 5	FW L	23S	34E	7	Lot 3	32.31913 32	- 103.5134 55	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 821 8	172 77	117 00	Y
EXIT Leg #1	100	FSL	123 0	FW L	23S	34E	7	Lot 4	32.31215 4	- 103.5135 32	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 821 8	198 16	117 00	Y
BHL Leg #1	100	FSL	123 0	FW L	23S	34E	7	Lot 4	32.31215 4	- 103.5135 32	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 821 8	198 16	117 00	Y

Melanie Wilson

From:	notification@pay.gov
Sent:	Wednesday, January 29, 2020 4:52 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: 26N6KEJ4 Agency Tracking ID: 75940690208 Transaction Type: Sale Transaction Date: 01/29/2020 06:51:56 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: 10400053843 Lease Numbers: NMNM0000587 Well Numbers: 408H 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.



Pay.gov is a program of the U.S. Department of the Treasury, Bureau of the Fiscal Service

AFMSS

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

APD ID: 10400053843

Operator Name: KAISER FRANCIS OIL COMPANY

Well Number: 408H

Submission Date: 02/03/2020

Highlighted data reflects the most

Well Name: BELL LAKE UNIT NORTH

Well Work Type: Drill

recent changes

Show Final Text

Well Type: OIL WELL

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formatio
649071		3482	0	0	OTHER : Surface	NONE	N
649072	RUSTLER	2282	1200	1200	SANDSTONE	NONE	N
649073	SALADO	2007	1475	1475	SALT	NONE	N
649074	TOP SALT	1682	1800	1800	SALT	NONE	N
649075	BASE OF SALT	-1268	4750	4750	SALT	NONE	N
649076	LAMAR	-1568	5050	5050	SANDSTONE	NATURAL GAS, OIL	N
649077	BELL CANYON	-1868	5350	5350	SANDSTONE	NATURAL GAS, OIL	N
649078	CHERRY CANYON	-3068	6550	6550	SANDSTONE	NATURAL GAS, OIL	N
649079	BRUSHY CANYON	-4718	8200	8200	SANDSTONE	NATURAL GAS, OIL	N
649080	BONE SPRING	-4943	8425	8425	LIMESTONE	NATURAL GAS, OIL	N
649081	AVALON SAND	-5258	8740	8740	SANDSTONE	NATURAL GAS, OIL	N
649082	BONE SPRING 1ST	-6193	9675	9675	SANDSTONE	NATURAL GAS, OIL	N
649089	BONE SPRING 2ND	-6718	10200	10200	SANDSTONE	NATURAL GAS, OIL	N
652388	BONE SPRING LIME	-7218	10700	10700	LIMESTONE	NATURAL GAS, OIL	N
652389	BONE SPRING 3RD	-7718	11200	11200	SANDSTONE	NATURAL GAS, OIL	N
652390	WOLFCAMP	-8018	11500	11500	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Drilling Plan Data Report

10/23/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 408H

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 5M Annular Variance

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_408H_Choke_Manifold_20200203105337.pdf

BOP Diagram Attachment:

BLUN_408H_Flex_Hose_20200129163420.pdf

BLUN_408H_Wellhead_20200129163420.pdf

BLUN_408H_Annular_Variance_Request_20200129163422.pdf

BLUN Well Control Plan 20200129163511.pdf

BLUN_408H_BOP_20200203140028.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	1250	0	1250	3482	2232	1250	J-55	40.5	ST&C	2.7	5.4	DRY	8.3	DRY	12.4
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	11037	0	11027		-7545	11037	HCP -110	29.7	LT&C	1.3	1.8	DRY	2.3	DRY	2.9
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	19816	0	11700		-8218	19816	P- 110	20	OTHER - USS Eagle SFH	1.8	2	DRY	2.7	DRY	3.1

Well Number: 408H

Casing Attachments

Casing ID:	1	String Type:SURFACE
Casing ID:	I	String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_408H_Csg_Assumptions_20200129164321.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_408H_Csg_Assumptions_20200129164230.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_408H_Prod_Csg_Specs_20200129164252.pdf

Section 4 - Cement

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

Well Number: 408H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1250	602	1.7	13.5	1041	50	ExtendaCem	Poly E Flake

INTERMEDIATE	Lead	0	1103 7	835	2.7	11	2280	25	NeoCem	Extender
INTERMEDIATE	Tail	0	1103 7	570	1.2	15.6	682	25	Halcem	none
PRODUCTION	Lead	9000	1981 6	849	1.2	14.5	1038	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
1102 7	1170 0	OIL-BASED MUD	10	12							
1250	1102 7	OTHER : Brine	8.7	9							
0	1250	OTHER : Fresh Water	8.4	9							

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: 7300

Anticipated Surface Pressure: 4725

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_408H_Directional_Plan_20200129164730.pdf

Other proposed operations facets description:

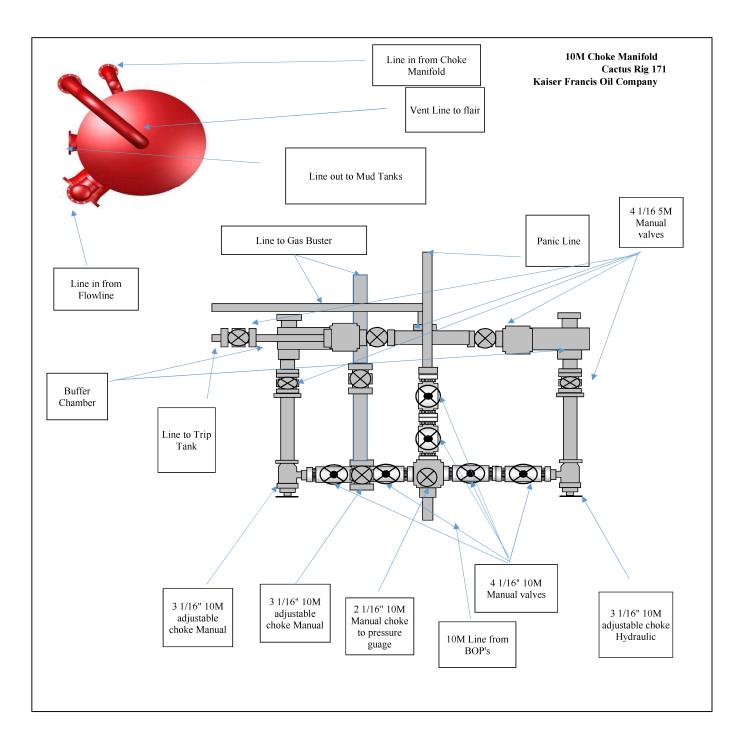
Gas Capture Plan attached

Other proposed operations facets attachment:

BLUN_Pad_6_GCP_20200122132813.pdf

Other Variance attachment:

BLUN_407H_Annular_BOP_Variance_Rqst_20200129110652.pdf BLUN_407H_Flex_Hose_20200129110652.pdf BLUN_407H_Wellhead_20200129110652.pdf



Kaiser-Francis Oil Company Bell Lake Unit North 408H Casing Assumptions

Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)	Mud Type	Mud Weight Hole	Depth	Viscosity	Fluid Loss	Anticipated Mud Weight (ppg)		Collanse	(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				(PP8/	(poi)			on engin	on ongen	(Min 1.1)	(Min 1.0)		(Min 1.8)
Surface	1250	10-3/4"	40.5	J-55	STC	New	14-3/4"	1250	FW	8.4 - 9.0	1350'	32 - 34	NC	9	585	1580	3130	629000	420000	2.7	5.4	12.4	8.3
Intermediate	11037	7-5/8"	29.7	HCP110	LTC	New	9-7/8"	11027	Brine	8.7 - 9.0	11426'	28-29	NC	9	5161	6700	9460	940000	769000	1.3	1.8	2.9	2.3
Production	19816	5-1/2"	20	P110 HP	USS Eagle SFH	New	6-3/4"	11700	OBM	10.0-12.0	19882'	55-70		12	7301	13150	14360	729000	629000	1.8	2.0	3.1	2.7

U. S. Steel Tubular Products

5 1/2 20.00 lb (0.361) P110 HP

USS-EAGLE SFH™

	PIPE	CONNECTION	
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
MAKE-UP DATA			
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.

Notes:

 Other than proprietary collapse and connection values, performance properties have been calculated using standard 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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Kaiser-Francis Oil Company Bell Lake Unit North 408H Casing Assumptions

Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)	Mud Type	Mud Weight Hole	Depth	Viscosity	Fluid Loss	Anticipated Mud Weight (ppg)		Collanse	(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				(PP8/	(poi)			on engin	on ongen	(Min 1.1)	(Min 1.0)		(Min 1.8)
Surface	1250	10-3/4"	40.5	J-55	STC	New	14-3/4"	1250	FW	8.4 - 9.0	1350'	32 - 34	NC	9	585	1580	3130	629000	420000	2.7	5.4	12.4	8.3
Intermediate	11037	7-5/8"	29.7	HCP110	LTC	New	9-7/8"	11027	Brine	8.7 - 9.0	11426'	28-29	NC	9	5161	6700	9460	940000	769000	1.3	1.8	2.9	2.3
Production	19816	5-1/2"	20	P110 HP	USS Eagle SFH	New	6-3/4"	11700	OBM	10.0-12.0	19882'	55-70		12	7301	13150	14360	729000	629000	1.8	2.0	3.1	2.7

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.

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Emergency Response Activation and General Responsibilities	3
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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:

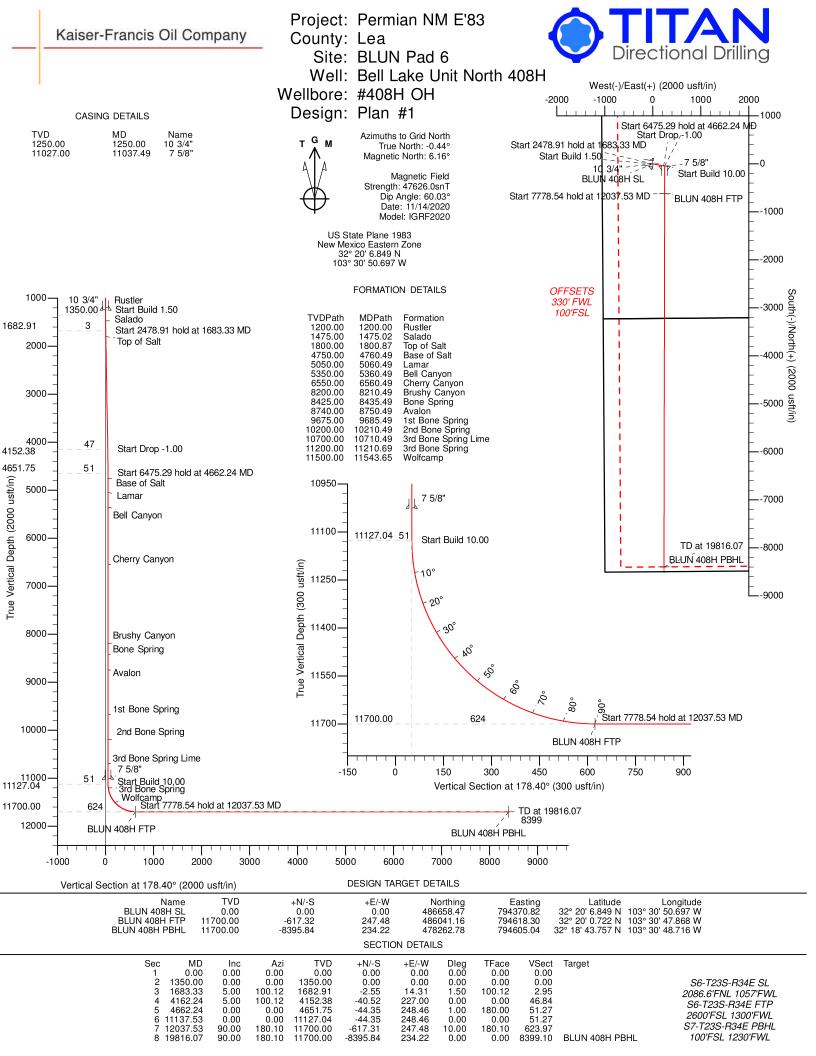
All responders must have training in the detection of H₂S measures for protection against the gas, equipment used for protection and emergency response. Weekly drills by all crews will be conducted and recorded in the IADC daily log. Additionally, responders must be equipped with H₂S monitors at all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



Survey Report

Company: Project: Site: Well: Wellbore: Design:	Permiar BLUN P	e Unit North			TVD Referen MD Referen North Refer	ce:	iod:	Well Bell Lake Unit North 408H - Slot E est.GL+KB @ 3507.00usft (planning) est.GL+KB @ 3507.00usft (planning) Grid Minimum Curvature EDM 5k-14				
Project	Pe	rmian NM E'8	33									
Map System: Geo Datum: Map Zone:	Nort	State Plane 1 h American D Mexico East	atum 1983		System D	atum:		Mean Sea Leve Using geodetic				
Site	BL	UN Pad 6, Ce	entered on #20	7H								
Site Position: From: Position Uncertai		Map (I	Northing: Easting: Slot Radius:		6,583.25 usft I,420.27 usft 13-3/16 "	Latitude: Longitude: Grid Conve			32° 20' 6 103° 30' 50. 0.4		
Well	Bel	I Lake Unit N	orth 408H - Slo	ot E								
Well Position Position Uncertai	+N +E/ inty		0.00 usft 0.00 usft 0.00 usft	Northing: Easting: Wellhead Ele [,]	vation:	486,658. 794,370.	82 usft L	.atitude: .ongitude: Ground Level:		32° 20' 6 103° 30' 50. 3,482.4		
Wellbore	#4	08H OH										
Magnetics		Model Nam	• •	Sample Date	Declin	nation	Di	p Angle		Strength (nT)		
					(°	')		(°)		(11)		
			2020	11/14/20	(°	') 6.60		(°) 60.03		7,626.03767826		
Design Audit Notes: Version:			2020	11/14/20 Phase:	PROTOTYPE	6.60	Tie On Depth:	60.03	3 47	• •	0.00	
Audit Notes:		IGRF	2020	11/14/20 Phase: om (TVD)		6.60	Tie On Depth: +E/-W (usft)	60.03		• •	0.00	
Audit Notes: Version:		IGRF	2020 Depth Frc	11/14/20 Phase: om (TVD)	PROTOTYPE +N/-S	6.60	+E/-W	60.03	3 47 Direction (°)	• •	0.00	
Audit Notes: Version:		IGRF	2020 Depth Frc	11/14/20 Phase: om (TVD) ft)	PROTOTYPE +N/-S (usft)	6.60	+E/-W (usft)	60.03	3 47 Direction (°)	7,626.03767826	0.00	
Audit Notes: Version: Vertical Section:	d	IGRF	2020 Depth Frc	11/14/20 Phase: om (TVD) ft)	PROTOTYPE +N/-S (usft)	6.60	+E/-W (usft)	60.03	3 47 Direction (°)	7,626.03767826	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft)	nd In	IGRF in #1 clination (°) 0.00	2020 Depth Frc (us Azimuth (°) 0.00	11/14/20 Phase: om (TVD) ft) 0.00 Vertical Depth (usft) 0.00	PROTOTYPE +N/-S (usft) 0.0 +N/-S (usft) 0.00	6.60 0 +E/-W (usft) 0.00	+E/-W (usft) 0.00 Vertical Section (usft) 0.00	60.03	Build Rate (°) 0.00	7,626.03767826 7,626.03767826 78.40 78.40 78.40 700 8.40 700 8.40 700 8.40 700 8.40 700 8.40 700 8.40 700 8.40 700 700 700 700 700 700 700 700 700 7	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft)	ed In:	IGRF in #1 clination (°)	2020 Depth Frc (us Azimuth (°)	11/14/20 Phase: om (TVD) ft) 0.00 Vertical Depth (usft)	PROTOTYPE +N/-S (usft) 0.0	6.60 0 +E/-W (usft)	+E/-W (usft) 0.00 Vertical Section (usft)	60.03 Dogleg Rate (°/100usft)	Build Rate (°/100usft)	7,626.03767826 7,626.03767826 78.40 78.40 700 8.40 700 8.40 700 8.40 700 8.40	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0, 1,200. Rustler 1,250.	ed In:	IGRF in #1 clination (°) 0.00	2020 Depth Frc (us Azimuth (°) 0.00	11/14/20 Phase: om (TVD) ft) 0.00 Vertical Depth (usft) 0.00	PROTOTYPE +N/-S (usft) 0.0 +N/-S (usft) 0.00	6.60 0 +E/-W (usft) 0.00	+E/-W (usft) 0.00 Vertical Section (usft) 0.00	60.03	Build Rate (°) 0.00	7,626.03767826 7,626.03767826 78.40 78.40 78.40 700 8.40 700 8.40 700 8.40 700 8.40 700 8.40 700 8.40 700 8.40 700 700 700 700 700 700 700 700 700 7	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0. 1,200. Rustler 1,250. 10 3/4"	ed In-	LiGRF in #1 clination (°) 0.00 0.00 0.00	2020 Depth Frc (us Azimuth (°) 0.00 0.00 0.00	11/14/20 Phase: phase: 0.00 0.00 Vertical Depth (usft) 0.00 1,200.00 1,250.00	PROTOTYPE +N/-S (usft) 0.0 +N/-S (usft) 0.00 0.00 0.00	6.60 0 •+E/-W (usft) 0.00 0.00 0.00	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00 0.00	60.03	Build Rate (°/100usft) 0.00 0.00	7,626.03767826 8.40 Turn Rate (°/100usft) 0.00 0.00 0.00	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0, 1,200. Rustler 1,250.	ed In: 0.00 0.00 0.00	IGRF in #1 clination (°) 0.00 0.00	2020 Depth Frc (us Azimuth (°) 0.00 0.00	11/14/20 Phase: pm (TVD) ft) 0.00 Vertical Depth (usft) 0.00 1,200.00	PROTOTYPE +N/-S (usft) 0.0 +N/-S (usft) 0.00 0.00	6.60 0 +E/-W (usft) 0.00 0.00	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00	60.03	Build (°) 17 Build Rate (°/100usft) 0.00 0.00	7,626.03767826 7,626.03767826 8.40 8.40 Turn Rate (°/100usft) 0.00 0.00	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0. 1,200. Rustler 1,250. 10 3/4" 1,350. 1,400. 1,475.	ed In: 0.00 0.00 0.00	LiGRF in #1 clination (°) 0.00 0.00 0.00 0.00	2020 Depth Frc (us Azimuth (°) 0.00 0.00 0.00 0.00 0.00	11/14/20 Phase: phase: 0.00 0.00 0.00 1,200.00 1,250.00 1,350.00	PROTOTYPE +N/-S (usft) 0.0 +N/-S (usft) 0.00 0.00 0.00	6.60 0 +E/-W (usft) 0.00 0.00 0.00	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00 0.00 0.00	60.03	Build Rate (*/100usft) 0.00 0.00 0.00	7,626.03767826 7,626.03767826 78.40 8.40 8.40 0.00 0.00 0.00 0.00 0.00	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0, 1,200, Rustler 1,250, 10 3/4" 1,350, 1,400,	ed In 0.00 0.00 0.00 0.00 0.00 0.00 0.00	LIGRF in #1 clination (°) 0.00 0.00 0.00 0.00 0.75	2020 Depth Frc (us Azimuth 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	11/14/20 Phase: phase: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	PROTOTYPE +N/-S (usft) 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6.60 0 • E/-W (usft) 0.00 0.00 0.00 0.00 0.32	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00 0.00 0.00	60.03 Dogleg Rate (°/100usft) 0.00 0.00 0.00 0.00 1.50	Build Rate (*/100usft) 0.00 0.00 0.00 1.50	7,626.03767826 7,626.03767826 78.40 8.40 0.00 0.00 0.00 0.00 0.00 0.00	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0. 1,200. Rustler 1,250. 10 3/4" 1,350. 1,400. 1,475. Salado	sd In 0.00 0.00 0.00 0.00 0.00 0.02	LIGRF in #1 clination (°) 0.00 0.00 0.00 0.75 1.88	2020 Depth Frc (us Azimuth (°) 0.00 0.00 0.00 0.00 0.00 100.12 100.12	11/14/20 Phase: om (TVD) ft) 0.00 Vertical Depth (usft) 0.00 1,250.00 1,350.00 1,400.00 1,475.00	PROTOTYPE +N/-S (usft) 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	6.60 0 •E/-W (usft) 0.00 0.00 0.00 0.00 0.32 2.01	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00 0.00 0.07 0.02	60.03	Build Rate (*/100usft) 0.00 0.00 0.00 1.50 1.50	*8.40 *8.40	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0. 1,200. Rustler 1,250. 10 3/4" 1,350. 1,400. 1,475. Salado 1,500. 1,600. 1,683.	ed In 0.00	LIGRF in #1 clination (°) 0.00 0.00 0.00 0.75 1.88 2.25 3.75 5.00	2020 Depth Frc (us Azimuth (°) 0.00 0.00 0.00 0.00 0.00 100.12 100.12 100.12 100.12 100.12 100.12 100.12	11/14/20 Phase: phase: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	PROTOTYPE +N/-S (usft) 0.0 0.00	6.60 0 •E/-W (usft) 0.00 0.00 0.00 0.00 0.32 2.01 2.90 8.05 14.31	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00 0.00 0.07 0.02 0.02 0.02 0.00 0.07 0.02	60.03	Build Rate (*) 0.00 0.00 0.00 0.00 1.50 1.50 1.50 1.50	*8.40 *8.40 *8.40 *8.40 *8.40 0.000 0.00	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0. 1,200. Rustler 1,250. 10 3/4" 1,350. 1,400. 1,475. Salado 1,500. 1,600. 1,603. 1,700.	ed In: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	LIGRF in #1 clination (*) 0.00 0.00 0.00 0.00 0.00 0.75 1.88 2.25 3.75 5.00 5.00	2020 Depth Frc (us Azimuth 0.00 0.00 0.00 0.00 100.12 100.12 100.12 100.12 100.12 100.12	11/14/20 Phase: phase: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	PROTOTYPE +N/-S (usft) 0.0 0.00	6.60 0 • E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.32 2.01 2.00 8.05 14.31 15.74	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	60.03	Billd Rate (*/100usft) 0.00 0.00 0.00 1.50 1.50 1.50 1.50 1.50	*8.40 *8.40 *8.40 *8.40 0.00 0.	0.00	
Audit Notes: Version: Vertical Section: Planned Survey Measured Depth (usft) 0. 1,200. Rustler 1,250. 10 3/4" 1,350. 1,400. 1,475. Salado 1,500. 1,600. 1,683.	ed In: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	LIGRF in #1 clination (°) 0.00 0.00 0.00 0.75 1.88 2.25 3.75 5.00	2020 Depth Frc (us Azimuth (°) 0.00 0.00 0.00 0.00 0.00 100.12 100.12 100.12 100.12 100.12 100.12 100.12	11/14/20 Phase: phase: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	PROTOTYPE +N/-S (usft) 0.0 0.00	6.60 0 •E/-W (usft) 0.00 0.00 0.00 0.00 0.32 2.01 2.90 8.05 14.31	+E/-W (usft) 0.00 Vertical Section (usft) 0.00 0.00 0.00 0.07 0.02 0.02 0.02 0.00 0.07 0.02	60.03	Build Rate (*) 0.00 0.00 0.00 0.00 1.50 1.50 1.50 1.50	*8.40 *8.40 *8.40 *8.40 *8.40 0.000 0.00	0.00	

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit North 408H - Slot E
Project:	Permian NM E'83	TVD Reference:	est.GL+KB @ 3507.00usft (planning)
Site:	BLUN Pad 6	MD Reference:	est.GL+KB @ 3507.00usft (planning)
Well:	Bell Lake Unit North 408H	North Reference:	Grid
Wellbore:	#408H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5k-14

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,900.00	5.00	100.12	1,898.75	-5.87	32.90	6.79	0.00	0.00	0.00
2,000.00	5.00	100.12	1,998.37	-7.40	41.48	8.56	0.00	0.00	0.00
2,100.00	5.00	100.12	2,097.99	-8.94	50.06	10.33	0.00	0.00	0.00
2,200.00	5.00	100.12	2,197.61	-10.47	58.64	12.10	0.00	0.00	0.00
2,300.00	5.00	100.12	2,297.23	-12.00	67.22	13.87	0.00	0.00	0.00
2,400.00	5.00	100.12	2,396.85	-13.53	75.80	15.64	0.00	0.00	0.00
2,500.00	5.00	100.12	2,496.47	-15.06	84.38	17.41	0.00	0.00	0.00
2,600.00	5.00	100.12	2,596.09	-16.59	92.96	19.18	0.00	0.00	0.00
2,700.00	5.00	100.12	2,695.71	-18.13	101.54	20.95	0.00	0.00	0.00
2,800.00	5.00	100.12	2,795.33	-19.66	110.12	22.72	0.00	0.00	0.00
2,900.00	5.00	100.12	2,894.95	-21.19	118.70	24.49	0.00	0.00	0.00
3,000.00	5.00	100.12	2,994.57	-22.72	127.28	26.26	0.00	0.00	0.00
3,100.00	5.00	100.12	3,094.19	-24.25	135.86	28.03	0.00	0.00	0.00
3,200.00	5.00	100.12	3,193.81	-25.78	144.44	29.80	0.00	0.00	0.00
3,300.00	5.00	100.12	3,293.43	-27.32	153.02	31.57	0.00	0.00	0.00
3,400.00	5.00	100.12	3,393.04	-28.85	161.60	33.34	0.00	0.00	0.00
3,500.00	5.00	100.12	3,492.66	-30.38	170.18	35.11	0.00	0.00	0.00
3,600.00	5.00	100.12	3,592.28	-31.91	178.76	36.88	0.00	0.00	0.00
3,700.00	5.00	100.12	3,691.90	-33.44	187.34	38.65	0.00	0.00	0.00
3,800.00	5.00	100.12	3,791.52	-34.97	195.92	40.42	0.00	0.00	0.00
3,900.00	5.00	100.12	3,891.14	-36.51	204.50	42.19	0.00	0.00	0.00
4,000.00	5.00	100.12	3,990.76	-38.04	213.08	43.96	0.00	0.00	0.00
4,100.00	5.00	100.12	4,090.38	-39.57	221.66	45.73	0.00	0.00	0.00
4,162.24	5.00	100.12	4,152.38	-40.52	227.00	46.84	0.00	0.00	0.00
4,200.00	4.62	100.12	4,190.01	-41.08	230.12	47.48	1.00	-1.00	0.00
4,300.00	3.62	100.12	4,289.75	-42.34	237.19	48.94	1.00	-1.00	0.00
4,400.00	2.62	100.12	4,389.60	-43.30	242.55	50.05	1.00	-1.00	0.00
4,500.00	1.62	100.12	4,489.53	-43.95	246.20	50.80	1.00	-1.00	0.00
4,600.00	0.62	100.12	4,589.51	-44.29	248.13	51.20	1.00	-1.00	0.00
4,662.24	0.00	0.00	4,651.75	-44.35	248.46	51.27	1.00	-1.00	0.00
4,700.00	0.00	0.00	4,689.51	-44.35	248.46	51.27	0.00	0.00	0.00
4,760.49	0.00	0.00	4,750.00	-44.35	248.46	51.27	0.00	0.00	0.00
Base of Salt									
4,800.00	0.00	0.00	4,789.51	-44.35	248.46	51.27	0.00	0.00	0.00
4,900.00	0.00	0.00	4,889.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,000.00	0.00	0.00	4,989.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,060.49	0.00	0.00	5,050.00	-44.35	248.46	51.27	0.00	0.00	0.00
Lamar									
5,100.00	0.00	0.00	5,089.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,200.00	0.00	0.00	5,189.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,300.00	0.00	0.00	5,289.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,360.49	0.00	0.00	5,350.00	-44.35	248.46	51.27	0.00	0.00	0.00
Bell Canyon									
5,400.00	0.00	0.00	5,389.51	-44.35	248.46	51.27	0.00	0.00	0.00

Survey Report

Comp	bany:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit North 408H - Slot E
Proje	ct:	Permian NM E'83	TVD Reference:	est.GL+KB @ 3507.00usft (planning)
Site:		BLUN Pad 6	MD Reference:	est.GL+KB @ 3507.00usft (planning)
Well:		Bell Lake Unit North 408H	North Reference:	Grid
Wellb	oore:	#408H OH	Survey Calculation Method:	Minimum Curvature
Desig	yn:	Plan #1	Database:	EDM 5k-14

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,500.00	0.00	0.00	5,489.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,600.00	0.00	0.00	5,589.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,700.00	0.00	0.00	5,689.51	-44.35	248.46	51.27	0.00	0.00	0.00
5,800.00	0.00	0.00	5,789.51	-44.35	248.46	51.27	0.00	0.00	0.0
5,900.00	0.00	0.00	5,889.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,000.00	0.00	0.00	5,989.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,100.00	0.00	0.00	6,089.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,200.00	0.00	0.00	6,189.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,300.00	0.00	0.00	6,289.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,400.00	0.00	0.00	6,389.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,500.00	0.00	0.00	6,489.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,560.49	0.00	0.00	6,550.00	-44.35	248.46	51.27	0.00	0.00	0.0
Cherry Canyo	on								
6,600.00	0.00	0.00	6,589.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,700.00	0.00	0.00	6,689.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,800.00	0.00	0.00	6,789.51	-44.35	248.46	51.27	0.00	0.00	0.0
6,900.00	0.00	0.00	6,889.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,000.00	0.00	0.00	6,989.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,100.00	0.00	0.00	7,089.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,200.00	0.00	0.00	7,189.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,300.00	0.00	0.00	7,289.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,400.00	0.00	0.00	7,389.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,500.00	0.00	0.00	7,489.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,600.00	0.00	0.00	7,589.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,700.00	0.00	0.00	7,689.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,800.00	0.00	0.00	7,789.51	-44.35	248.46	51.27	0.00	0.00	0.0
7,900.00	0.00	0.00	7,889.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,000.00	0.00	0.00	7,989.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,100.00	0.00	0.00	8,089.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,200.00	0.00	0.00	8,189.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,210.49	0.00	0.00	8,200.00	-44.35	248.46	51.27	0.00	0.00	0.0
Brushy Cany			•						
8,300.00	0.00	0.00	8,289.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,400.00	0.00	0.00	8,389.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,435.49	0.00	0.00	8,425.00	-44.35	248.46	51.27	0.00	0.00	0.0
Bone Spring									
8,500.00	0.00	0.00	8,489.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,600.00	0.00	0.00	8,589.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,700.00	0.00	0.00	8,689.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,750.49	0.00	0.00	8,740.00	-44.35	248.46	51.27	0.00	0.00	0.0
Avalon									
8,800.00	0.00	0.00	8,789.51	-44.35	248.46	51.27	0.00	0.00	0.0
8,900.00	0.00	0.00	8,889.51	-44.35	248.46	51.27	0.00	0.00	0.0
9,000.00	0.00	0.00	8,989.51	-44.35	248.46	51.27	0.00	0.00	0.0

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit North 408H - Slot E
Project:	Permian NM E'83	TVD Reference:	est.GL+KB @ 3507.00usft (planning)
Site:	BLUN Pad 6	MD Reference:	est.GL+KB @ 3507.00usft (planning)
Well:	Bell Lake Unit North 408H	North Reference:	Grid
Wellbore:	#408H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5k-14

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,100.00	0.00	0.00	9,089.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,200.00	0.00	0.00	9,189.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,300.00	0.00	0.00	9,289.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,400.00	0.00	0.00	9,389.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,500.00	0.00	0.00	9,489.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,600.00	0.00	0.00	9,589.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,685.49	0.00	0.00	9,675.00	-44.35	248.46	51.27	0.00	0.00	0.00
1st Bone Sp	ring								
9,700.00	0.00	0.00	9,689.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,800.00	0.00	0.00	9,789.51	-44.35	248.46	51.27	0.00	0.00	0.00
9,900.00	0.00	0.00	9,889.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,000.00	0.00	0.00	9,989.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,100.00	0.00	0.00	10,089.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,200.00	0.00	0.00	10,189.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,210.49	0.00	0.00	10,200.00	-44.35	248.46	51.27	0.00	0.00	0.00
2nd Bone Sp		0.00	10,200.00	77.00	270.70	51.27	0.00	0.00	0.00
10,300.00	0.00	0.00	10,289.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,400.00	0.00	0.00	10,389.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,500.00	0.00	0.00	10,489.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,600.00	0.00	0.00	10,589.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,700.00	0.00	0.00	10,689.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,710.49	0.00	0.00	10,700.00	-44.35	248.46	51.27	0.00	0.00	0.00
3rd Bone Sp	ring Lime								
10,800.00	0.00	0.00	10,789.51	-44.35	248.46	51.27	0.00	0.00	0.00
10,900.00	0.00	0.00	10,889.51	-44.35	248.46	51.27	0.00	0.00	0.00
11,000.00	0.00	0.00	10,989.51	-44.35	248.46	51.27	0.00	0.00	0.00
11,037.49	0.00	0.00	11,027.00	-44.35	248.46	51.27	0.00	0.00	0.00
7 5/8"			,						
11,100.00	0.00	0.00	11,089.51	-44.35	248.46	51.27	0.00	0.00	0.00
11,137.53	0.00	0.00	11,127.04	-44.35	248.46	51.27	0.00	0.00	0.00
11,150.00	1.25	180.10	11,139.51	-44.49	248.46	51.40	10.00	10.00	0.00
11,200.00	6.25	180.10	11,189.39	-47.76	248.46	54.67	10.00	10.00	0.00
11,210.69	7.32	180.10	11,200.00	-49.02	248.45	55.93	10.00	10.00	0.00
3rd Bone Sp	ring								
11,250.00	11.25	180.10	11,238.79	-55.36	248.44	62.26	10.00	10.00	0.00
11,300.00	16.25	180.10	11,287.34	-67.23	248.42	74.14	10.00	10.00	0.00
11,350.00	21.25	180.10	11,334.67	-83.30	248.39	90.19	10.00	10.00	0.00
11,400.00	26.25	180.10	11,380.43	-103.43	248.36	110.31	10.00	10.00	0.00
11,450.00	31.25	180.10	11,424.25	-127.47	248.32	134.34	10.00	10.00	0.00
11,500.00	36.25	180.10	11,465.81	-155.23	248.27	162.10	10.00	10.00	0.00
11,543.65	40.61	180.10	11,500.00	-182.36	248.23	189.21	10.00	10.00	0.00
Wolfcamp									
11,550.00	41.25	180.10	11,504.80	-186.52	248.22	193.37	10.00	10.00	0.00
11,600.00	46.25	180.10	11,540.90	-221.08	248.16	227.91	10.00	10.00	0.00

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit North 408H - Slot E
Project:	Permian NM E'83	TVD Reference:	est.GL+KB @ 3507.00usft (planning)
Site:	BLUN Pad 6	MD Reference:	est.GL+KB @ 3507.00usft (planning)
Well:	Bell Lake Unit North 408H	North Reference:	Grid
Wellbore:	#408H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5k-14

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,650.00	51.25	180.10	11,573.86	-258.66	248.10	265.48	10.00	10.00	0.00
11,700.00	56.25	180.10	11,603.42	-298.97	248.03	305.77	10.00	10.00	0.00
11,750.00	61.25	180.10	11,629.35	-341.70	247.95	348.48	10.00	10.00	0.00
11,800.00	66.25	180.10	11,651.46	-386.52	247.88	393.29	10.00	10.00	0.00
11,850.00	71.25	180.10	11,669.58	-433.11	247.80	439.85	10.00	10.00	0.00
11,900.00	76.25	180.10	11,683.57	-481.10	247.72	487.82	10.00	10.00	0.00
11,950.00	81.25	180.10	11,693.33	-530.12	247.63	536.82	10.00	10.00	0.00
12,000.00	86.25	180.10	11,698.77	-579.81	247.55	586.48	10.00	10.00	0.00
12,037.53	90.00	180.10	11,700.00	-617.31	247.48	623.97	10.00	10.00	0.00
12,100.00	90.00	180.10	11,700.00	-679.78	247.38	686.41	0.00	0.00	0.00
12,200.00	90.00	180.10	11,700.00	-779.78	247.21	786.37	0.00	0.00	0.00
12,300.00	90.00	180.10	11,700.00	-879.78	247.04	886.32	0.00	0.00	0.00
12,400.00	90.00	180.10	11,700.00	-979.78	246.87	986.28	0.00	0.00	0.00
12,500.00	90.00	180.10	11,700.00	-1,079.78	246.70	1,086.24	0.00	0.00	0.00
12,600.00	90.00	180.10	11,700.00	-1,179.78	246.53	1,186.19	0.00	0.00	0.00
12,700.00	90.00	180.10	11,700.00	-1,279.78	246.36	1,286.15	0.00	0.00	0.00
12,800.00	90.00	180.10	11,700.00	-1,379.78	246.18	1,386.11	0.00	0.00	0.00
12,900.00	90.00	180.10	11,700.00	-1,479.78	246.01	1,486.06	0.00	0.00	0.00
13,000.00	90.00	180.10	11,700.00	-1,579.78	245.84	1,586.02	0.00	0.00	0.00
13,100.00	90.00	180.10	11,700.00	-1,679.78	245.67	1,685.97	0.00	0.00	0.00
13,200.00	90.00	180.10	11,700.00	-1,779.78	245.50	1,785.93	0.00	0.00	0.00
13,300.00	90.00	180.10	11,700.00	-1,879.78	245.33	1,885.89	0.00	0.00	0.00
13,400.00	90.00	180.10	11,700.00	-1,979.78	245.16	1,985.84	0.00	0.00	0.00
13,500.00	90.00	180.10	11,700.00	-2,079.78	244.99	2,085.80	0.00	0.00	0.00
13,600.00	90.00	180.10	11,700.00	-2,179.78	244.82	2,185.76	0.00	0.00	0.00
13,700.00	90.00	180.10	11,700.00	-2,279.78	244.65	2,285.71	0.00	0.00	0.00
13,800.00	90.00	180.10	11,700.00	-2,379.78	244.48	2,385.67	0.00	0.00	0.00
13,900.00	90.00	180.10	11,700.00	-2,479.78	244.31	2,485.62	0.00	0.00	0.00
14,000.00	90.00	180.10	11,700.00	-2,579.78	244.14	2,585.58	0.00	0.00	0.00
14,100.00	90.00	180.10	11,700.00	-2,679.78	243.97	2,685.54	0.00	0.00	0.00
14,200.00	90.00	180.10	11,700.00	-2,779.78	243.80	2,785.49	0.00	0.00	0.00
14,300.00	90.00	180.10	11,700.00	-2,879.78	243.63	2,885.45	0.00	0.00	0.00
14,400.00	90.00	180.10	11,700.00	-2,979.77	243.46	2,985.41	0.00	0.00	0.00
14,500.00	90.00	180.10	11,700.00	-3,079.77	243.29	3,085.36	0.00	0.00	0.00
14,600.00	90.00	180.10	11,700.00	-3,179.77	243.12	3,185.32	0.00	0.00	0.00
14,700.00	90.00	180.10	11,700.00	-3,279.77	242.95	3,285.27	0.00	0.00	0.00
14,800.00	90.00	180.10	11,700.00	-3,379.77	242.78	3,385.23	0.00	0.00	0.00
14,900.00	90.00	180.10	11,700.00	-3,479.77	242.60	3,485.19	0.00	0.00	0.00
15,000.00	90.00	180.10	11,700.00	-3,579.77	242.43	3,585.14	0.00	0.00	0.00
15,100.00	90.00	180.10	11,700.00	-3,679.77	242.26	3,685.10	0.00	0.00	0.00
15,200.00	90.00	180.10	11,700.00	-3,779.77	242.09	3,785.05	0.00	0.00	0.00
15,300.00	90.00	180.10	11,700.00	-3,879.77	241.92	3,885.01	0.00	0.00	0.00
15,400.00	90.00	180.10	11,700.00	-3,979.77	241.75	3,984.97	0.00	0.00	0.00
15,500.00	90.00	180.10	11,700.00	-4,079.77	241.58	4,084.92	0.00	0.00	0.00

Survey Report

Company:	Kaiser-Francis Oil Company	Local Co-ordinate Reference:	Well Bell Lake Unit North 408H - Slot E
Project:	Permian NM E'83	TVD Reference:	est.GL+KB @ 3507.00usft (planning)
Site:	BLUN Pad 6	MD Reference:	est.GL+KB @ 3507.00usft (planning)
Well:	Bell Lake Unit North 408H	North Reference:	Grid
Wellbore:	#408H OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5k-14

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,600.00	90.00	180.10	11,700.00	-4,179.77	241.41	4,184.88	0.00	0.00	0.00
15,700.00	90.00	180.10	11,700.00	-4,279.77	241.24	4,284.84	0.00	0.00	0.00
15,800.00	90.00	180.10	11,700.00	-4,379.77	241.07	4,384.79	0.00	0.00	0.00
15,900.00	90.00	180.10	11,700.00	-4,479.77	240.90	4,484.75	0.00	0.00	0.00
16,000.00	90.00	180.10	11,700.00	-4,579.77	240.30	4,584.70	0.00	0.00	0.00
16,100.00	90.00	180.10	11,700.00	-4,679.77	240.56	4,684.66	0.00	0.00	0.00
16,200.00	90.00	180.10	11,700.00	-4,779.77	240.39	4,784.62	0.00	0.00	0.00
16,300.00	90.00	180.10	11,700.00	-4,879.77	240.22	4,884.57	0.00	0.00	0.00
16,400.00	90.00	180.10	11,700.00	-4,979.77	240.05	4,984.53	0.00	0.00	0.00
16,500.00	90.00	180.10	11,700.00	-5,079.77	239.88	5,084.49	0.00	0.00	0.00
16,600.00	90.00	180.10	11,700.00	-5,179.77	239.71	5,184.44	0.00	0.00	0.00
16,700.00	90.00	180.10	11,700.00	-5,279.77	239.54	5,284.40	0.00	0.00	0.00
16,800.00	90.00	180.10	11,700.00	-5,379.77	239.37	5,384.35	0.00	0.00	0.00
16,900.00	90.00	180.10	11,700.00	-5,479.77	239.20	5,484.31	0.00	0.00	0.00
17,000.00	90.00	180.10	11,700.00	-5,579.77	239.02	5,584.27	0.00	0.00	0.00
17,100.00	90.00	180.10	11.700.00	-5,679.77	238.85	5,684.22	0.00	0.00	0.00
			,						0.00
17,200.00	90.00	180.10	11,700.00	-5,779.77	238.68	5,784.18	0.00	0.00	
17,300.00	90.00	180.10	11,700.00	-5,879.77	238.51	5,884.14	0.00	0.00	0.00
17,400.00	90.00	180.10	11,700.00	-5,979.77	238.34	5,984.09	0.00	0.00	0.00
17,500.00	90.00	180.10	11,700.00	-6,079.77	238.17	6,084.05	0.00	0.00	0.00
17,600.00	90.00	180.10	11,700.00	-6,179.77	238.00	6,184.00	0.00	0.00	0.00
17,700.00	90.00	180.10	11,700.00	-6,279.77	237.83	6,283.96	0.00	0.00	0.00
17,800.00	90.00	180.10	11,700.00	-6,379.77	237.66	6,383.92	0.00	0.00	0.00
17,900.00	90.00	180.10	11,700.00	-6,479.77	237.49	6,483.87	0.00	0.00	0.00
18,000.00	90.00	180.10	11,700.00	-6,579.77	237.32	6,583.83	0.00	0.00	0.00
18,100.00	90.00	180.10	11,700.00	-6,679.77	237.15	6,683.79	0.00	0.00	0.00
18,200.00	90.00	180.10	11,700.00	-6,779.77	236.98	6,783.74	0.00	0.00	0.00
18,200.00	90.00	180.10	11,700.00	-6,879.77	236.81	6,883.70	0.00	0.00	0.00
		180.10			236.64			0.00	0.00
18,400.00 18,500.00	90.00 90.00	180.10	11,700.00 11.700.00	-6,979.77 -7,079.77	236.64 236.47	6,983.65 7,083.61	0.00 0.00	0.00	0.00
18,500.00	90.00	160.10	11,700.00	-1,019.11	230.47	7,005.01	0.00	0.00	0.00
18,600.00	90.00	180.10	11,700.00	-7,179.77	236.30	7,183.57	0.00	0.00	0.00
18,700.00	90.00	180.10	11,700.00	-7,279.77	236.13	7,283.52	0.00	0.00	0.00
18,800.00	90.00	180.10	11,700.00	-7,379.77	235.96	7,383.48	0.00	0.00	0.00
18,900.00	90.00	180.10	11,700.00	-7,479.77	235.79	7,483.43	0.00	0.00	0.00
19,000.00	90.00	180.10	11,700.00	-7,579.77	235.62	7,583.39	0.00	0.00	0.00
10 400 00	00.00	100.40	11 700 00	7 670 77	00E 44	7 600 05	0.00	0.00	0.00
19,100.00	90.00	180.10	11,700.00	-7,679.77	235.44	7,683.35	0.00	0.00	0.00
19,200.00	90.00	180.10	11,700.00	-7,779.77	235.27	7,783.30	0.00	0.00	0.00
19,300.00	90.00	180.10	11,700.00	-7,879.77	235.10	7,883.26	0.00	0.00	0.00
19,400.00	90.00	180.10	11,700.00	-7,979.77	234.93	7,983.22	0.00	0.00	0.00
19,500.00	90.00	180.10	11,700.00	-8,079.77	234.76	8,083.17	0.00	0.00	0.00
19,600.00	90.00	180.10	11,700.00	-8,179.77	234.59	8,183.13	0.00	0.00	0.00
19,700.00	90.00	180.10	11,700.00	-8,279.77	234.42	8,283.08	0.00	0.00	0.00
19,800.00	90.00	180.10	11,700.00	-8,379.77	234.25	8,383.04	0.00	0.00	0.00

Survey Report

Company:	Kaiser-Francis Oil C	ompany			ordinate Refere		Well Bell Lake Unit North 408H - Slot E		
Project:	Permian NM E'83				TVD Reference: est.GL+KB @ 3507.00usft (plannin			0,	
Site:	BLUN Pad 6				MD Reference: est.GL+KB @ 3507.00usft (planning			ning)	
Well:	Bell Lake Unit North		North Reference: Grid Survey Calculation Method: Minimum Curvate			Grid			
Wellbore:	#408H OH	Survey Ca				ature	ure		
Design:	Plan #1						EDM 5k-14		
Planned Survey									
Measur Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)

Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")	
,			10-3/4 7-5/8	13-1/2 9-7/8	
C	Depth (usft)	Depth (usft) 00 1,250.00 10 3/4"	Depth Name 00 1,250.00 10 3/4"	Depth (usft) Diameter (") 00 1,250.00 10 3/4" 10-3/4	Depth (usft) Diameter Name Diameter (") Diameter 00 1,250.00 10 3/4" 10-3/4 13-1/2

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,200.00	1,200.00	Rustler			
	1,475.02	1,475.00	Salado			
	1,800.87	1,800.00	Top of Salt			
	4,760.49	4,750.00	Base of Salt			
	5,060.49	5,050.00	Lamar			
	5,360.49	5,350.00	Bell Canyon			
	6,560.49	6,550.00	Cherry Canyon			
	8,210.49	8,200.00	Brushy Canyon			
	8,435.49	8,425.00	Bone Spring			
	8,750.49	8,740.00	Avalon			
	9,685.49	9,675.00	1st Bone Spring			
	10,210.49	10,200.00	2nd Bone Spring			
	10,710.49	10,700.00	3rd Bone Spring Lime			
	11,210.69	11,200.00	3rd Bone Spring			
	11,543.65	11,500.00	Wolfcamp			

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

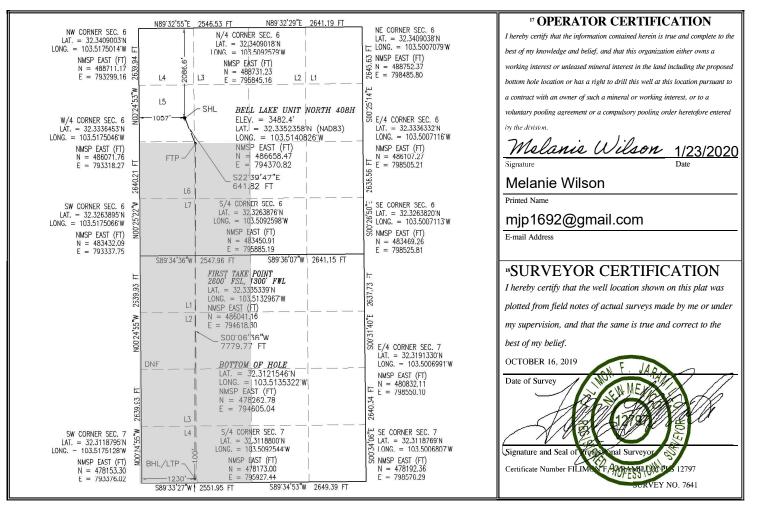
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name ¹ API Number Pool Code 30-025-98265 Ojo Chiso; Wolfcamp, Southwest ⁴ Property Code 5 Property Name Well Number 316707 **BELL LAKE UNIT NORTH** 408H OGRID No. **Operator Name** Elevation 12361 **KAISER-FRANCIS OIL CO.** 3482.4 Surface Location UL or lot no. Feet from the North/South line Feet from the East/West line Section Township Lot Idn County Range 2086.6 NORTH 1057 WEST 5 6 23 S 34 E LEA " Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County Range 7 23 S 100 SOUTH 1230 WEST 4 34 E LEA ¹² Dedicated Acres ¹⁵ Order No. ¹³ Joint or Infill 14 Consolidation Code R-14602 480

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.



Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 01/10/2020

 \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 207H		6-23S-34E	2137' FNL/1105' FWL	2000	0	
Bell Lake Unit North 208H		6-23S-34E	2111' FNL/1089' FWL	2000	0	
		(000 0 4F			0	
Bell Lake Unit North 307H		6-23S-34E		2000	0	
Bell Lake Unit North 308H		6-23S-34E		<mark>2000</mark>	0	
Bell Lake Unit North 407H		6-23S-34E	2005' FNL/1073' FWL	2000	0	
Bell Lake Unit North 408H		6-23S-34E	2086' FNL/1057' FWL	<mark>2000</mark>	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