Form 3160-3
(June 2015)

OCD – HOBBS
09/29/2020
RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM0000587

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone

7. If Unit or CA Agreement, Name and No.
BELL LAKE / NMNM 068292X

8. Lease Name and Well No.
BELL LAKE UNIT NORTH [316707]
429H

2. Name of Operator
KAISER FRANCIS OIL COMPANY [12361]

9. API Well No. 30-025-47772

3a. Address
6733 S. Yale Ave., Tulsa, OK 74121

3b. Phone No. *(include area code)*
(918) 491-0000

10. Field and Pool, or Exploratory [98265]
OJO CHISO/WOLFCAMP, SOUTHWEST

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface NESE / 1980 FSL / 745 FEL / LAT 32.3318251 / LONG -103.5031232
At proposed prod. zone NWNE / 330 FNL / 1410 FEL / LAT 32.3545121 / LONG -103.5052498

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 6/T23S/R34E/NMP

14. Distance in miles and direction from nearest town or post office*
20 miles

12. County or Parish
LEA

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
660 feet

16. No of acres in lease
634.55

17. Spacing Unit dedicated to this well
480.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
30 feet

19. Proposed Depth
11822 feet / 20018 feet

20. BLM/BIA Bond No. in file
FED: WYB000055

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3454 feet

22. Approximate date work will start*
02/01/2020

23. Estimated duration
40 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	MELANIE WILSON / Ph: (918) 491-0000	10/25/2019

Title
Regulatory Analyst

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	09/14/2020

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the 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, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GCP Rec 09/29/2020

SL

APPROVED WITH CONDITIONS

KZ
10/07/2020

Approval Date: 09/14/2020

(Continued on page 2)

*(Instructions 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.

(Continued on page 3)

APD ID: 10400050031 **Submission Date:** 10/25/2019

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400050031 **Tie to previous NOS?** N **Submission Date:** 10/25/2019

BLM Office: CARLSBAD **User:** Melanie Wilson **Title:** Regulatory Analyst

Federal/Indian APD: FED **Is the first lease penetrated for production Federal or Indian?** FED

Lease number: NMNM0000587 **Lease Acres:** 634.55

Surface access agreement in place? **Allotted?** **Reservation:**

Agreement in place? YES **Federal or Indian agreement:** FEDERAL

Agreement number: NMNM068292X

Agreement name: BELL LAKE

Keep application confidential? Y

Permitting Agent? NO **APD Operator:** KAISER FRANCIS OIL COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Zip: 74121

Operator PO Box: PO Box 21468

Operator City: Tulsa **State:** OK

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO **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:** 429H **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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

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

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** NORTH BELL LAKE UNIT **Number:** 11

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 20 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 660 FT

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: BLUN_429H_C102_20191024174330.pdf

Well work start Date: 02/01/2020 **Duration:** 40 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: 5931 **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	1980	FSL	745	FEL	23S	34E	6	Aliquot NESE	32.3318251	-103.5031232	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0001244A	3454	0	0	N
KOP Leg #1	1980	FSL	745	FEL	23S	34E	6	Aliquot NESE	32.3318251	-103.5031232	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0001244A	-8277	11911	11731	N
PPP Leg #1-1	2640	FNL	1410	FEL	22S	34E	31	Aliquot SWNE	32.345409	-103.505118	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0 070544A	-8368	17706	11822	Y

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

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 #1-2	0	FSL	1330	FEL	22S	34E	31	Aliquot SWSE	32.340902	-103.505056	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0070544B	-8368	15066	11822	Y
PPP Leg #1-3	2600	FNL	1310	FEL	23S	34E	6	Aliquot NESE	32.3337577	-103.5049519	LEA	NEW MEXICO	NEW MEXICO	F	NMNM0000587	-8368	12466	11822	Y
PPP Leg #1-4	2640	FNL	1310	FEL	23S	34E	6	Aliquot NESE	32.333647	-103.504953	LEA	NEW MEXICO	NEW MEXICO	F	NMNM0000587	-8368	12426	11822	Y
EXIT Leg #1	330	FNL	1410	FEL	22S	34E	31	Aliquot NWNE	32.3545121	-103.5052498	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0070544A	-8368	20018	11822	Y
BHL Leg #1	330	FNL	1410	FEL	22S	34E	31	Aliquot NWNE	32.3545121	-103.5052498	LEA	NEW MEXICO	NEW MEXICO	F	NMLC0070544A	-8368	20018	11822	Y

APD ID: 10400050031 **Submission Date:** 10/25/2019

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
571046	---	3454	0	0	OTHER : Surface	NONE	N
571047	RUSTLER	2107	1347	1347	SANDSTONE	NONE	N
571048	SALADO	1732	1722	1722	SALT	NONE	N
571049	TOP SALT	1432	2022	2022	SALT	NONE	N
571050	BASE OF SALT	-1568	5022	5022	SALT	NONE	N
571051	LAMAR	-1768	5222	5222	SANDSTONE	NATURAL GAS, OIL	N
571052	BELL CANYON	-1843	5297	5297	SANDSTONE	NATURAL GAS, OIL	N
571053	CHERRY CANYON	-2693	6147	6147	SANDSTONE	NATURAL GAS, OIL	N
571054	BRUSHY CANYON	-4118	7572	7572	SANDSTONE	NATURAL GAS, OIL	N
571055	BONE SPRING	-5258	8712	8712	LIMESTONE	NATURAL GAS, OIL	N
571056	AVALON SAND	-5518	8972	8972	SANDSTONE	NATURAL GAS, OIL	N
571057	BONE SPRING 1ST	-6368	9822	9822	SANDSTONE	NATURAL GAS, OIL	N
571064	BONE SPRING 2ND	-6968	10422	10422	SANDSTONE	NATURAL GAS, OIL	Y
571651	BONE SPRING LIME	-7368	10822	10822	LIMESTONE	NATURAL GAS, OIL	N
571652	BONE SPRING 3RD	-7878	11332	11332	SANDSTONE	NATURAL GAS, OIL	N
571653	WOLFCAMP	-8168	11622	11622	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

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_429H_Choke_Manifold_20191024175338.pdf

BOP Diagram Attachment:

BLUN_429H_MultiBowl_Wellhead_20191024175414.pdf

BLUN_429H_BOP_20191024175417.pdf

BLUN_429H_Flex_Hose_20191024175421.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	17.5	13.375	NEW	API	N	0	1372	0	1372	3454	2082	1372	J-55	54.5	BUTT	2.5	4.9	DRY	7.6	DRY	11.3
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	11072	0	11072		-7618	11072	HCP-110	29.7	LT&C	1.3	1.8	DRY	2.3	DRY	2.9
3	PRODUCTION	6.75	5.5	NEW	API	N	0	20018	0	11822		-8368	20018	HCP-110	20	OTHER - USS Eagle SFH	1.8	1.9	DRY	2.7	DRY	3.1

Casing Attachments

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_429H_Csg_Assumptions_20191024180354.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_429H_Csg_Assumptions_20191024180117.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BLUN_429H_Prod_Csg_Specs_20191024180242.pdf

Section 4 - Cement

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1372	661	1.7	13.5	1143	50	ExtendaCem	Poly E Flake
INTERMEDIATE	Lead		0	11376	838	2.7	11	2287	25	NeoCem	Extender
INTERMEDIATE	Tail		0	11376	572	1.2	15.6	684	25	Halcem	none
PRODUCTION	Lead		9000	20018	865	1.2	14.5	1058	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 (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
11072	11822	OIL-BASED MUD	10	12							
1372	11072	OTHER : Diesel-Brine Emulsion	8.8	9.2							
0	1372	OTHER : Fresh Water	8.4	9							

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

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: 5118 **Anticipated Surface Pressure:** 2517

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_429H_H2S_PLAN_20191024181224.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUN_429H_Directional_Plan_20191024181129.pdf

Other proposed operations facets description:

Gas Capture Plan attached

Other proposed operations facets attachment:

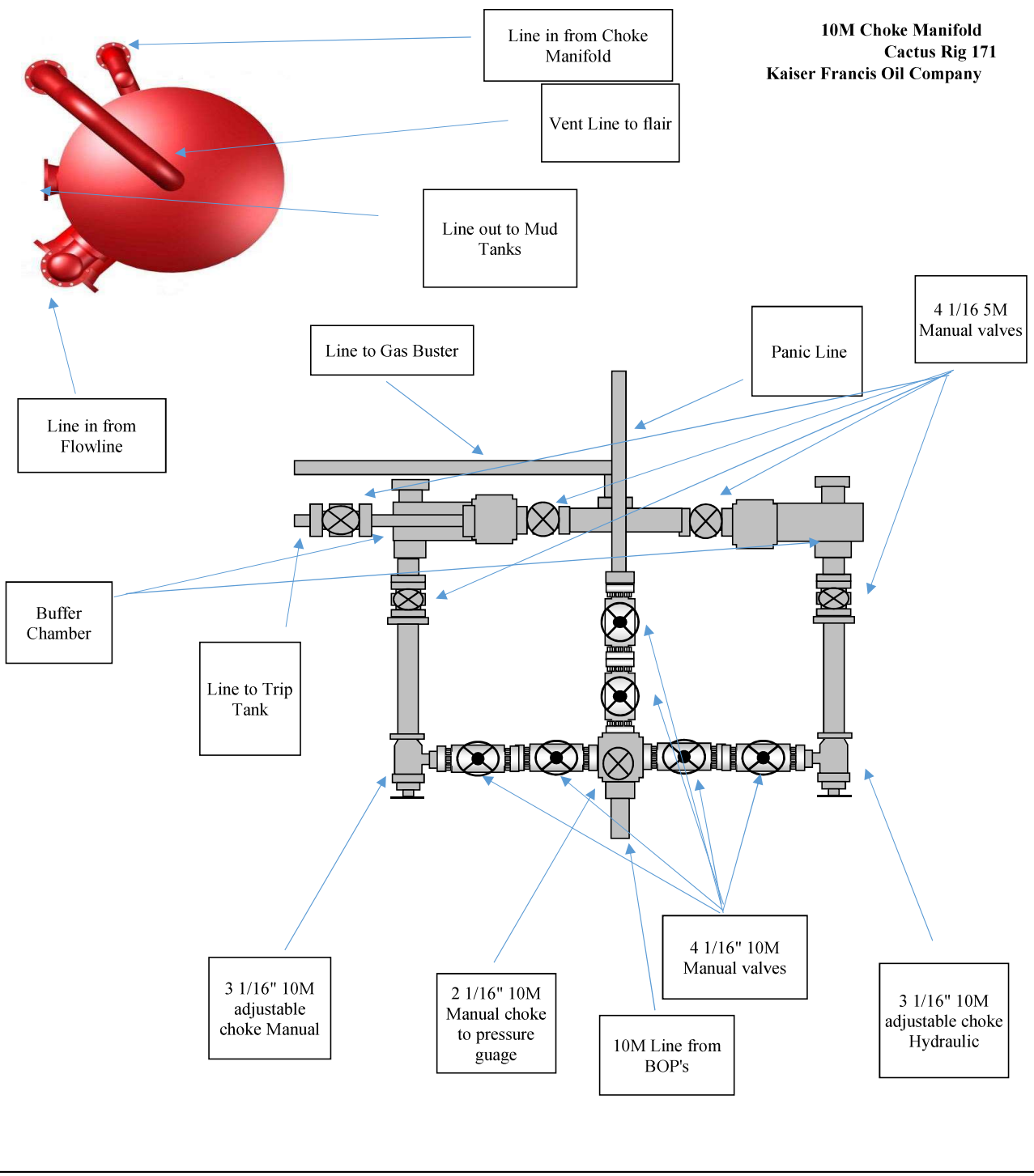
BLUN_Pad_11_GCP_20191020172703.pdf

Other Variance attachment:

BLUN_429H_Flex_Hose_20191024181147.pdf

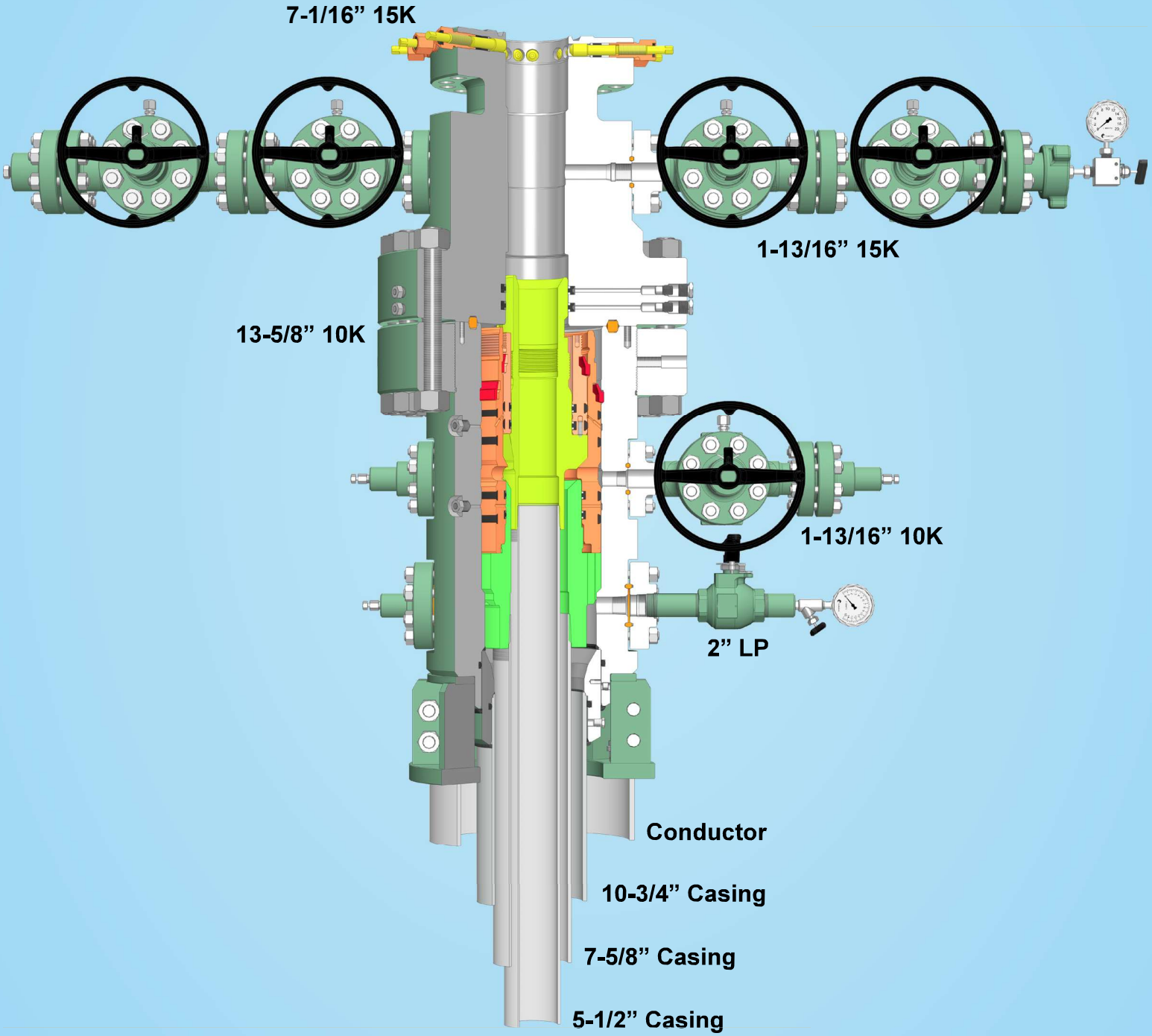
BLUN_429H_MultiBowl_Wellhead_20191024181150.pdf

10M Choke Manifold
Cactus Rig 171
Kaiser Francis Oil Company



CAMERON
A Schlumberger Company

13-5/8” 10K MN-DS Wellhead



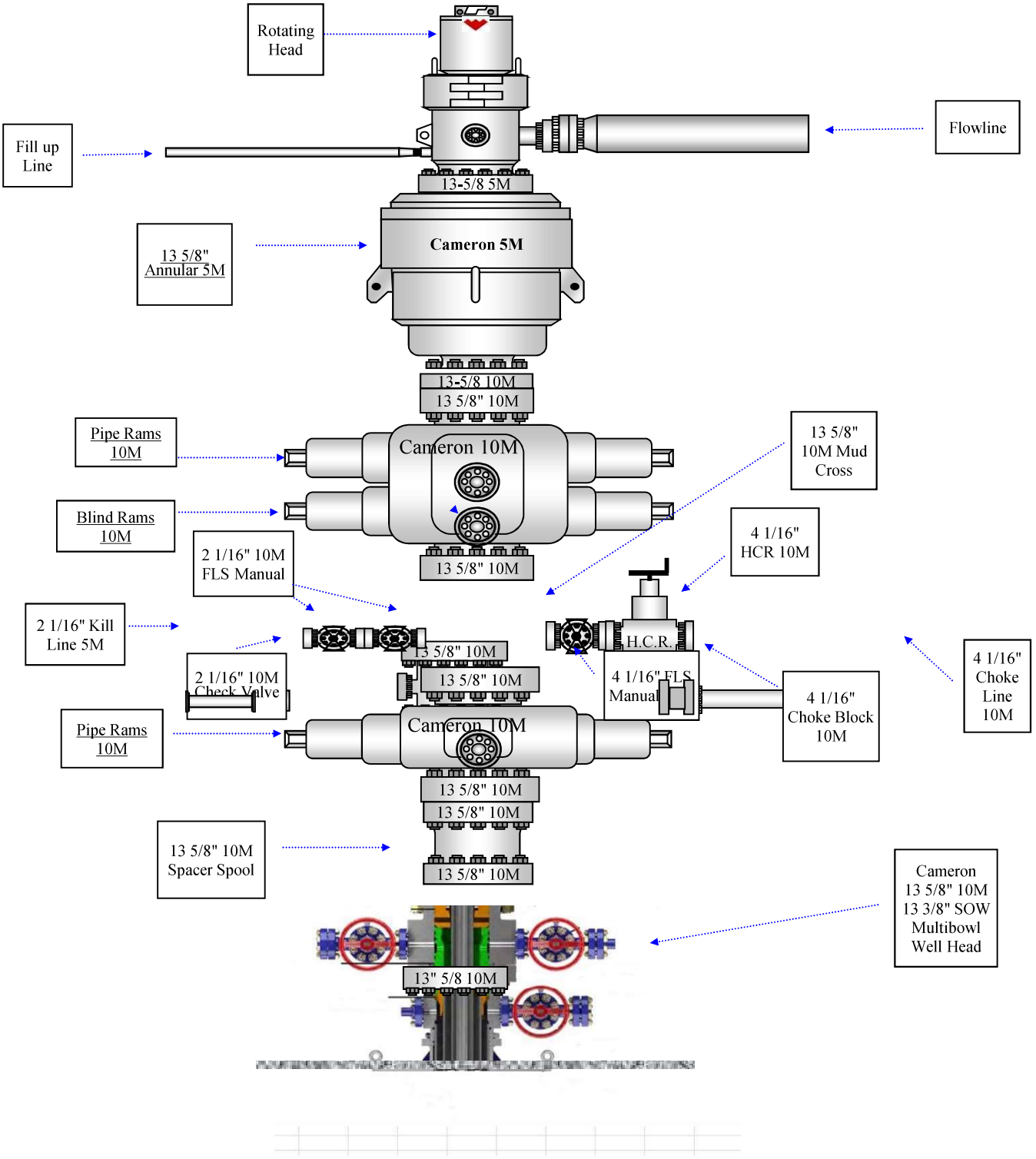
Kaiser-Francis Oil Company

1678248

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

10M BOP with 5M Annular
Kaiser Francis Oil Company

Hole Sections Utilized
***12 1/4" Hole below Surface Casing**
***8 3/4"-8 1/2" Hole below Intermediate casing**



QMS REGISTERED

Certificate of Registration

APIQR® REGISTRATION NUMBER

3042

This certifies that the quality management system of

COPPER STATE RUBBER, INC.
10485 W. Roosevelt Street
Avondale, AZ

has been assessed by the American Petroleum Institute Quality Registrar (APIQR®) and found it to be in conformance with the following standard:

ISO 9001:2015

The scope of this registration and the approved quality management system applies to the

Design and Manufacture of Oilfield, Marine and Other Industrial Hoses

APIQR® approves the organization's justification for excluding:

No Exclusions Identified as Applicable

Effective Date:	**APRIL 21, 2019**
Expiration Date:	**APRIL 21, 2022**
Registered Since:	**APRIL 21, 2016**

Vice President of Global Industry Services

Accredited by Member of the International Accreditation Forum Multilateral Recognition Arrangement for Quality Management Systems

This certificate is valid for the period specified herein. The registered organization must continually meet all requirements of APIQR's Registration Program and the requirements of the Registration Agreement. Registration is maintained and regularly monitored through annual full system audits. Further clarifications regarding the scope of this certificate and the applicability of ISO 9001 standard requirements may be obtained by consulting the registered organization. This certificate has been issued from APIQR offices located at 200 Massachusetts Avenue, NW Suite 1100, Washington, DC 20001-5571, U.S.A., it is the property of APIQR, and must be returned upon request. **To verify the authenticity of this certificate, go to www.api.org/compositelist.**

QUALITY REGISTRAR

2018-152 | 02.19
Digital

Kaiser-Francis Oil Company
Bell Lake Unit North 429H
Casing Assumptions

Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)
Conductor	120	20"				New		120
Surface	1350	10-3/4"	40.5	J-55	STC	New	14-3/4"	1372
Intermediate	11376	7-5/8"	29.7	HCP110	LTC	New	9-7/8"	11072
Production	20018	5-1/2"	20	P110 HP	USS Eagle SFH	New	6-3/4"	11822

Mud Type	Mud Weight Hole Control	Depth	Viscosity	Fluid Loss
FW	8.4 - 9.0	1350'	32 - 34	NC
Brine	8.7 - 9.0	11426'	28-29	NC
OBM	10.0-12.0	19882'	55-70	

Anticipated Mud Weight (ppg)	Max Pore Pressure (psi)	Collapse (psi)	Burst (psi)	Body Tensile Strength	Joint Tensile Strength
9	642	1580	3130	629000	420000
9	5182	6700	9460	940000	769000
12	7377	13150	14360	729000	629000

Collapse Safety Factor (Min 1.1)	Burst Safety Factor (Min 1.0)	Body Tensile Safety Factor (Min 1.8)	Joint Tensile Safety Factor (Min 1.8)
2.5	4.9	11.3	7.6
1.3	1.8	2.9	2.3
1.8	1.9	3.1	2.7

KAISER-FRANCIS OIL COMPANY
HYDROGEN SULFIDE (H_2S) 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

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 H_2S 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 H_2S RELEASE

The following procedures and responsibilities will be implemented on activation of the H_2S siren and lights.

All Personnel:

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. 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 (SO_2). 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 H_2S, 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)

	OFFCE	MOBILE
Kaiser-Francis Oil Co.	918/494-0000	
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 H_2S, 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:

X = [(1.589)(concentration)(Q)] (0.6258)

Calculation for the 500 ppm ROE:

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

(H2S concentrations in decimal form)
10,000 ppm +=1.+
1,000 ppm +=.1+
100 ppm +=.01+
10 ppm +=.001+

EXAMPLE: If a well/facility has been determined to have 150 ppm H_2S 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 H_2S safety, shall monitor with detection equipment the H_2S 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 H_2S, 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 H_2S AND SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = 1	10 ppm	100 ppm	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = 1	2 ppm	N/A	1000 ppm

TRAINING:

All responders must have training in the detection of H_2S 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 H_2S 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 OIL COMPANY

Kaiser Francis

Bell Lake Unit North 429H
Bell Lake Unit North 429H
Bell Lake Unit North 429H
Bell Lake Unit North 429H

Plan: 190915 Bell Lake Unit North 429H

Morcor Standard Plan

15 September, 2019

Morcor Engineering

Morcor Standard Plan

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
Project:	Bell Lake Unit North 429H	**TVD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Site:	Bell Lake Unit North 429H	**MD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**Database:**	EDM 5000.1 Single User Db

Project Bell Lake Unit North 429H

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Bell Lake Unit North 429H

Site Position:		**Northing:**	485,443.73 usft	**Latitude:**	32° 19' 54.571 N
From:	Map	**Easting:**	797,765.45 usft	**Longitude:**	103° 30' 11.243 W
Position Uncertainty:	1.0 usft	**Slot Radius:**	17-1/2 "	**Grid Convergence:**	0.44 °

Well Bell Lake Unit North 429H

Well Position	**+N/-S**	0.0 usft	**Northing:**	485,443.73 usft	**Latitude:**	32° 19' 54.571 N
	+E/-W	0.0 usft	**Easting:**	797,765.45 usft	**Longitude:**	103° 30' 11.243 W
Position Uncertainty		1.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,454.2 usft

Wellbore Bell Lake Unit North 429H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/15/2019	6.54	60.08	47,862

Design 190915 Bell Lake Unit North 429H

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	355.01

Survey Tool Program **Date** 9/15/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,018.1	190915 Bell Lake Unit North 429H (Bell La	MWD	MWD - Standard

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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)
0.0	0.00	0.00	0.0	-3,476.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
100.0	0.00	0.00	100.0	-3,376.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
120.0	0.00	0.00	120.0	-3,356.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
20" Conductor										
200.0	0.00	0.00	200.0	-3,276.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
300.0	0.00	0.00	300.0	-3,176.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
400.0	0.00	0.00	400.0	-3,076.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
500.0	0.00	0.00	500.0	-2,976.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
600.0	0.00	0.00	600.0	-2,876.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
700.0	0.00	0.00	700.0	-2,776.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
800.0	0.00	0.00	800.0	-2,676.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
900.0	0.00	0.00	900.0	-2,576.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,000.0	0.00	0.00	1,000.0	-2,476.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,100.0	0.00	0.00	1,100.0	-2,376.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,200.0	0.00	0.00	1,200.0	-2,276.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,300.0	0.00	0.00	1,300.0	-2,176.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,347.0	0.00	0.00	1,347.0	-2,129.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Rustler										
1,372.0	0.00	0.00	1,372.0	-2,104.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
13 3/8" Surface Casing										
1,400.0	0.00	0.00	1,400.0	-2,076.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,500.0	0.00	0.00	1,500.0	-1,976.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,600.0	0.00	0.00	1,600.0	-1,876.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,700.0	0.00	0.00	1,700.0	-1,776.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,722.0	0.00	0.00	1,722.0	-1,754.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Salado										
1,800.0	0.00	0.00	1,800.0	-1,676.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1,900.0	0.00	0.00	1,900.0	-1,576.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00

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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)
2,000.0	0.00	0.00	2,000.0	-1,476.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,022.0	0.00	0.00	2,022.0	-1,454.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Top of Salt										
2,100.0	0.00	0.00	2,100.0	-1,376.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,200.0	0.00	0.00	2,200.0	-1,276.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,300.0	0.00	0.00	2,300.0	-1,176.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,400.0	0.00	0.00	2,400.0	-1,076.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,500.0	0.00	0.00	2,500.0	-976.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,600.0	0.00	0.00	2,600.0	-876.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,700.0	0.00	0.00	2,700.0	-776.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,800.0	0.00	0.00	2,800.0	-676.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2,900.0	0.00	0.00	2,900.0	-576.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,000.0	0.00	0.00	3,000.0	-476.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,100.0	0.00	0.00	3,100.0	-376.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,200.0	0.00	0.00	3,200.0	-276.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,300.0	0.00	0.00	3,300.0	-176.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,400.0	0.00	0.00	3,400.0	-76.2	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,500.0	0.00	0.00	3,500.0	23.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,600.0	0.00	0.00	3,600.0	123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,700.0	0.00	0.00	3,700.0	223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,800.0	0.00	0.00	3,800.0	323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3,900.0	0.00	0.00	3,900.0	423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,000.0	0.00	0.00	4,000.0	523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,100.0	0.00	0.00	4,100.0	623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,200.0	0.00	0.00	4,200.0	723.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,300.0	0.00	0.00	4,300.0	823.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,400.0	0.00	0.00	4,400.0	923.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00

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4,500.0	0.00	0.00	4,500.0	1,023.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,600.0	0.00	0.00	4,600.0	1,123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,700.0	0.00	0.00	4,700.0	1,223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,800.0	0.00	0.00	4,800.0	1,323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
4,900.0	0.00	0.00	4,900.0	1,423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,000.0	0.00	0.00	5,000.0	1,523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,022.0	0.00	0.00	5,022.0	1,545.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Base of Salt										
5,100.0	0.00	0.00	5,100.0	1,623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,200.0	0.00	0.00	5,200.0	1,723.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,222.0	0.00	0.00	5,222.0	1,745.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Lamar										
5,272.0	0.00	0.00	5,272.0	1,795.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10 3/4" Intermediate Casing										
5,297.0	0.00	0.00	5,297.0	1,820.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Bell Canyon										
5,300.0	0.00	0.00	5,300.0	1,823.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,400.0	0.00	0.00	5,400.0	1,923.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,500.0	0.00	0.00	5,500.0	2,023.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,600.0	0.00	0.00	5,600.0	2,123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,700.0	0.00	0.00	5,700.0	2,223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,800.0	0.00	0.00	5,800.0	2,323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
5,900.0	0.00	0.00	5,900.0	2,423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,000.0	0.00	0.00	6,000.0	2,523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,100.0	0.00	0.00	6,100.0	2,623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,147.0	0.00	0.00	6,147.0	2,670.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Cherry Canyon										
6,200.0	0.00	0.00	6,200.0	2,723.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00

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Site:	Bell Lake Unit North 429H	**MD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**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)
6,300.0	0.00	0.00	6,300.0	2,823.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,400.0	0.00	0.00	6,400.0	2,923.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,500.0	0.00	0.00	6,500.0	3,023.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,600.0	0.00	0.00	6,600.0	3,123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,700.0	0.00	0.00	6,700.0	3,223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,800.0	0.00	0.00	6,800.0	3,323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
6,900.0	0.00	0.00	6,900.0	3,423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,000.0	0.00	0.00	7,000.0	3,523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,100.0	0.00	0.00	7,100.0	3,623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,200.0	0.00	0.00	7,200.0	3,723.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,300.0	0.00	0.00	7,300.0	3,823.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,400.0	0.00	0.00	7,400.0	3,923.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,500.0	0.00	0.00	7,500.0	4,023.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,572.0	0.00	0.00	7,572.0	4,095.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Brushy Canyon										
7,600.0	0.00	0.00	7,600.0	4,123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,700.0	0.00	0.00	7,700.0	4,223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,800.0	0.00	0.00	7,800.0	4,323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7,900.0	0.00	0.00	7,900.0	4,423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,000.0	0.00	0.00	8,000.0	4,523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,100.0	0.00	0.00	8,100.0	4,623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,200.0	0.00	0.00	8,200.0	4,723.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,300.0	0.00	0.00	8,300.0	4,823.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,400.0	0.00	0.00	8,400.0	4,923.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,500.0	0.00	0.00	8,500.0	5,023.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,600.0	0.00	0.00	8,600.0	5,123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,700.0	0.00	0.00	8,700.0	5,223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
Project:	Bell Lake Unit North 429H	**TVD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Site:	Bell Lake Unit North 429H	**MD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**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)
8,712.0	0.00	0.00	8,712.0	5,235.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Bone Spring										
8,800.0	0.00	0.00	8,800.0	5,323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,900.0	0.00	0.00	8,900.0	5,423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
8,972.0	0.00	0.00	8,972.0	5,495.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Avalon										
9,000.0	0.00	0.00	9,000.0	5,523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,100.0	0.00	0.00	9,100.0	5,623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,200.0	0.00	0.00	9,200.0	5,723.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,300.0	0.00	0.00	9,300.0	5,823.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,400.0	0.00	0.00	9,400.0	5,923.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,500.0	0.00	0.00	9,500.0	6,023.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,600.0	0.00	0.00	9,600.0	6,123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,700.0	0.00	0.00	9,700.0	6,223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,800.0	0.00	0.00	9,800.0	6,323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
9,822.0	0.00	0.00	9,822.0	6,345.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
1st BS Sand										
9,900.0	0.00	0.00	9,900.0	6,423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,000.0	0.00	0.00	10,000.0	6,523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,100.0	0.00	0.00	10,100.0	6,623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,200.0	0.00	0.00	10,200.0	6,723.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,300.0	0.00	0.00	10,300.0	6,823.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,400.0	0.00	0.00	10,400.0	6,923.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,422.0	0.00	0.00	10,422.0	6,945.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
2nd BS Sand										
10,500.0	0.00	0.00	10,500.0	7,023.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,600.0	0.00	0.00	10,600.0	7,123.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
Project:	Bell Lake Unit North 429H	**TVD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Site:	Bell Lake Unit North 429H	**MD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**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)
10,700.0	0.00	0.00	10,700.0	7,223.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,800.0	0.00	0.00	10,800.0	7,323.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
10,822.0	0.00	0.00	10,822.0	7,345.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
3rd BS Lime										
10,900.0	0.00	0.00	10,900.0	7,423.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
11,000.0	0.00	0.00	11,000.0	7,523.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
11,072.0	0.00	0.00	11,072.0	7,595.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
7 5/8" 2nd Intermediate Casing										
11,100.0	0.00	0.00	11,100.0	7,623.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
11,185.0	0.00	0.00	11,185.0	7,708.8	0.0	0.0	797,765.45	485,443.73	0.00	0.00
Start Build 10.00										
11,200.0	1.50	305.12	11,200.0	7,723.8	0.1	-0.2	797,765.29	485,443.84	0.13	10.00
11,300.0	11.50	305.12	11,299.2	7,823.0	6.6	-9.4	797,756.04	485,450.35	7.41	10.00
11,333.7	14.87	305.12	11,332.0	7,855.8	11.0	-15.7	797,749.76	485,454.76	12.36	10.00
3rd BS Sand										
11,400.0	21.50	305.12	11,395.0	7,918.8	22.9	-32.6	797,732.84	485,466.66	25.69	10.00
11,500.0	31.50	305.12	11,484.4	8,008.2	48.6	-69.1	797,696.39	485,492.30	54.40	10.00
11,600.0	41.50	305.12	11,564.7	8,088.5	82.7	-117.6	797,647.80	485,526.47	92.67	10.00
11,682.0	49.70	305.12	11,622.0	8,145.8	116.4	-165.5	797,599.90	485,560.16	130.40	10.00
Wolfcamp										
11,700.0	51.50	305.12	11,633.4	8,157.2	124.4	-176.9	797,588.55	485,568.15	139.34	10.00
11,800.0	61.50	305.12	11,688.5	8,212.3	172.3	-245.0	797,520.43	485,616.06	193.00	10.00
11,900.0	71.50	305.12	11,728.4	8,252.2	225.0	-319.9	797,445.51	485,668.75	252.01	10.00
11,911.2	72.62	305.12	11,731.8	8,255.6	231.1	-328.6	797,436.80	485,674.87	258.87	10.00
Start DLS 10.01 TFO 77.64										
12,000.0	74.72	314.13	11,756.8	8,280.6	285.5	-394.2	797,371.26	485,729.18	318.68	10.01
12,100.0	77.50	324.04	11,780.9	8,304.7	358.7	-457.6	797,307.81	485,802.46	397.20	10.01
12,200.0	80.64	333.73	11,799.9	8,323.7	442.7	-508.3	797,257.18	485,886.42	485.25	10.01

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
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Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**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)
12,300.0	84.03	343.24	11,813.3	8,337.1	534.8	-544.5	797,220.91	485,978.51	580.15	10.01
12,400.0	87.59	352.63	11,820.6	8,344.4	632.2	-565.4	797,200.10	486,075.92	679.00	10.01
12,466.7	90.00	358.86	11,822.0	8,345.8	698.7	-570.3	797,195.15	486,142.41	745.67	10.01
Start 7551.3 hold at 12466.7 MD										
12,500.0	90.00	358.86	11,822.0	8,345.8	731.9	-571.0	797,194.49	486,175.67	778.86	0.00
12,600.0	90.00	358.86	11,822.0	8,345.8	831.9	-573.0	797,192.50	486,275.65	878.64	0.00
12,700.0	90.00	358.86	11,822.0	8,345.8	931.9	-574.9	797,190.50	486,375.63	978.41	0.00
12,800.0	90.00	358.86	11,822.0	8,345.8	1,031.9	-576.9	797,188.51	486,475.61	1,078.19	0.00
12,900.0	90.00	358.86	11,822.0	8,345.8	1,131.9	-578.9	797,186.52	486,575.59	1,177.96	0.00
13,000.0	90.00	358.86	11,822.0	8,345.8	1,231.8	-580.9	797,184.53	486,675.57	1,277.73	0.00
13,100.0	90.00	358.86	11,822.0	8,345.8	1,331.8	-582.9	797,182.54	486,775.55	1,377.51	0.00
13,200.0	90.00	358.86	11,822.0	8,345.8	1,431.8	-584.9	797,180.54	486,875.53	1,477.28	0.00
13,300.0	90.00	358.86	11,822.0	8,345.8	1,531.8	-586.9	797,178.55	486,975.51	1,577.06	0.00
13,400.0	90.00	358.86	11,822.0	8,345.8	1,631.8	-588.9	797,176.56	487,075.49	1,676.83	0.00
13,500.0	90.00	358.86	11,822.0	8,345.8	1,731.7	-590.9	797,174.57	487,175.48	1,776.60	0.00
13,600.0	90.00	358.86	11,822.0	8,345.8	1,831.7	-592.9	797,172.58	487,275.46	1,876.38	0.00
13,700.0	90.00	358.86	11,822.0	8,345.8	1,931.7	-594.9	797,170.59	487,375.44	1,976.15	0.00
13,800.0	90.00	358.86	11,822.0	8,345.8	2,031.7	-596.9	797,168.59	487,475.42	2,075.93	0.00
13,900.0	90.00	358.86	11,822.0	8,345.8	2,131.7	-598.8	797,166.60	487,575.40	2,175.70	0.00
14,000.0	90.00	358.86	11,822.0	8,345.8	2,231.6	-600.8	797,164.61	487,675.38	2,275.47	0.00
14,100.0	90.00	358.86	11,822.0	8,345.8	2,331.6	-602.8	797,162.62	487,775.36	2,375.25	0.00
14,200.0	90.00	358.86	11,822.0	8,345.8	2,431.6	-604.8	797,160.63	487,875.34	2,475.02	0.00
14,300.0	90.00	358.86	11,822.0	8,345.8	2,531.6	-606.8	797,158.63	487,975.32	2,574.80	0.00
14,400.0	90.00	358.86	11,822.0	8,345.8	2,631.6	-608.8	797,156.64	488,075.30	2,674.57	0.00
14,500.0	90.00	358.86	11,822.0	8,345.8	2,731.5	-610.8	797,154.65	488,175.28	2,774.35	0.00
14,600.0	90.00	358.86	11,822.0	8,345.8	2,831.5	-612.8	797,152.66	488,275.26	2,874.12	0.00
14,700.0	90.00	358.86	11,822.0	8,345.8	2,931.5	-614.8	797,150.67	488,375.24	2,973.89	0.00

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
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Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**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)
14,800.0	90.00	358.86	11,822.0	8,345.8	3,031.5	-616.8	797,148.68	488,475.22	3,073.67	0.00
14,900.0	90.00	358.86	11,822.0	8,345.8	3,131.5	-618.8	797,146.68	488,575.20	3,173.44	0.00
15,000.0	90.00	358.86	11,822.0	8,345.8	3,231.4	-620.8	797,144.69	488,675.18	3,273.22	0.00
15,100.0	90.00	358.86	11,822.0	8,345.8	3,331.4	-622.8	797,142.70	488,775.16	3,372.99	0.00
15,200.0	90.00	358.86	11,822.0	8,345.8	3,431.4	-624.7	797,140.71	488,875.14	3,472.76	0.00
15,300.0	90.00	358.86	11,822.0	8,345.8	3,531.4	-626.7	797,138.72	488,975.12	3,572.54	0.00
15,400.0	90.00	358.86	11,822.0	8,345.8	3,631.4	-628.7	797,136.72	489,075.10	3,672.31	0.00
15,500.0	90.00	358.86	11,822.0	8,345.8	3,731.3	-630.7	797,134.73	489,175.08	3,772.09	0.00
15,600.0	90.00	358.86	11,822.0	8,345.8	3,831.3	-632.7	797,132.74	489,275.06	3,871.86	0.00
15,700.0	90.00	358.86	11,822.0	8,345.8	3,931.3	-634.7	797,130.75	489,375.04	3,971.63	0.00
15,800.0	90.00	358.86	11,822.0	8,345.8	4,031.3	-636.7	797,128.76	489,475.02	4,071.41	0.00
15,900.0	90.00	358.86	11,822.0	8,345.8	4,131.3	-638.7	797,126.76	489,575.00	4,171.18	0.00
16,000.0	90.00	358.86	11,822.0	8,345.8	4,231.2	-640.7	797,124.77	489,674.98	4,270.96	0.00
16,100.0	90.00	358.86	11,822.0	8,345.8	4,331.2	-642.7	797,122.78	489,774.96	4,370.73	0.00
16,200.0	90.00	358.86	11,822.0	8,345.8	4,431.2	-644.7	797,120.79	489,874.94	4,470.50	0.00
16,300.0	90.00	358.86	11,822.0	8,345.8	4,531.2	-646.7	797,118.80	489,974.92	4,570.28	0.00
16,400.0	90.00	358.86	11,822.0	8,345.8	4,631.2	-648.6	797,116.81	490,074.90	4,670.05	0.00
16,500.0	90.00	358.86	11,822.0	8,345.8	4,731.1	-650.6	797,114.81	490,174.88	4,769.83	0.00
16,600.0	90.00	358.86	11,822.0	8,345.8	4,831.1	-652.6	797,112.82	490,274.86	4,869.60	0.00
16,700.0	90.00	358.86	11,822.0	8,345.8	4,931.1	-654.6	797,110.83	490,374.84	4,969.37	0.00
16,800.0	90.00	358.86	11,822.0	8,345.8	5,031.1	-656.6	797,108.84	490,474.82	5,069.15	0.00
16,900.0	90.00	358.86	11,822.0	8,345.8	5,131.1	-658.6	797,106.85	490,574.80	5,168.92	0.00
17,000.0	90.00	358.86	11,822.0	8,345.8	5,231.1	-660.6	797,104.85	490,674.78	5,268.70	0.00
17,100.0	90.00	358.86	11,822.0	8,345.8	5,331.0	-662.6	797,102.86	490,774.76	5,368.47	0.00
17,200.0	90.00	358.86	11,822.0	8,345.8	5,431.0	-664.6	797,100.87	490,874.74	5,468.24	0.00
17,300.0	90.00	358.86	11,822.0	8,345.8	5,531.0	-666.6	797,098.88	490,974.72	5,568.02	0.00
17,400.0	90.00	358.86	11,822.0	8,345.8	5,631.0	-668.6	797,096.89	491,074.70	5,667.79	0.00

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
Project:	Bell Lake Unit North 429H	**TVD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Site:	Bell Lake Unit North 429H	**MD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**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)
17,500.0	90.00	358.86	11,822.0	8,345.8	5,731.0	-670.6	797,094.90	491,174.68	5,767.57	0.00
17,600.0	90.00	358.86	11,822.0	8,345.8	5,830.9	-672.5	797,092.90	491,274.66	5,867.34	0.00
17,700.0	90.00	358.86	11,822.0	8,345.8	5,930.9	-674.5	797,090.91	491,374.64	5,967.12	0.00
17,800.0	90.00	358.86	11,822.0	8,345.8	6,030.9	-676.5	797,088.92	491,474.62	6,066.89	0.00
17,900.0	90.00	358.86	11,822.0	8,345.8	6,130.9	-678.5	797,086.93	491,574.60	6,166.66	0.00
18,000.0	90.00	358.86	11,822.0	8,345.8	6,230.9	-680.5	797,084.94	491,674.58	6,266.44	0.00
18,100.0	90.00	358.86	11,822.0	8,345.8	6,330.8	-682.5	797,082.94	491,774.56	6,366.21	0.00
18,200.0	90.00	358.86	11,822.0	8,345.8	6,430.8	-684.5	797,080.95	491,874.54	6,465.99	0.00
18,300.0	90.00	358.86	11,822.0	8,345.8	6,530.8	-686.5	797,078.96	491,974.52	6,565.76	0.00
18,400.0	90.00	358.86	11,822.0	8,345.8	6,630.8	-688.5	797,076.97	492,074.50	6,665.53	0.00
18,500.0	90.00	358.86	11,822.0	8,345.8	6,730.8	-690.5	797,074.98	492,174.48	6,765.31	0.00
18,600.0	90.00	358.86	11,822.0	8,345.8	6,830.7	-692.5	797,072.99	492,274.46	6,865.08	0.00
18,700.0	90.00	358.86	11,822.0	8,345.8	6,930.7	-694.5	797,070.99	492,374.44	6,964.86	0.00
18,800.0	90.00	358.86	11,822.0	8,345.8	7,030.7	-696.4	797,069.00	492,474.42	7,064.63	0.00
18,900.0	90.00	358.86	11,822.0	8,345.8	7,130.7	-698.4	797,067.01	492,574.40	7,164.40	0.00
19,000.0	90.00	358.86	11,822.0	8,345.8	7,230.7	-700.4	797,065.02	492,674.38	7,264.18	0.00
19,100.0	90.00	358.86	11,822.0	8,345.8	7,330.6	-702.4	797,063.03	492,774.36	7,363.95	0.00
19,200.0	90.00	358.86	11,822.0	8,345.8	7,430.6	-704.4	797,061.03	492,874.34	7,463.73	0.00
19,300.0	90.00	358.86	11,822.0	8,345.8	7,530.6	-706.4	797,059.04	492,974.32	7,563.50	0.00
19,400.0	90.00	358.86	11,822.0	8,345.8	7,630.6	-708.4	797,057.05	493,074.30	7,663.27	0.00
19,500.0	90.00	358.86	11,822.0	8,345.8	7,730.6	-710.4	797,055.06	493,174.28	7,763.05	0.00
19,600.0	90.00	358.86	11,822.0	8,345.8	7,830.5	-712.4	797,053.07	493,274.26	7,862.82	0.00
19,700.0	90.00	358.86	11,822.0	8,345.8	7,930.5	-714.4	797,051.08	493,374.25	7,962.60	0.00
19,800.0	90.00	358.86	11,822.0	8,345.8	8,030.5	-716.4	797,049.08	493,474.23	8,062.37	0.00
19,900.0	90.00	358.86	11,822.0	8,345.8	8,130.5	-718.4	797,047.09	493,574.21	8,162.14	0.00
20,000.0	90.00	358.86	11,822.0	8,345.8	8,230.5	-720.4	797,045.10	493,674.19	8,261.92	0.00

Morcor Engineering

Morcor Standard Plan

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
Project:	Bell Lake Unit North 429H	**TVD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Site:	Bell Lake Unit North 429H	**MD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**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)
20,018.1	90.00	358.86	11,822.0	8,345.8	8,248.5	-720.7	797,044.74	493,692.24	8,279.94	0.00
TD at 20018.1										

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
120.0	120.0	20" Conductor	20	26
1,372.0	1,372.0	13 3/8" Surface Casing	13-3/8	17-1/2
5,272.0	5,272.0	10 3/4" Intermediate Casing	10-3/4	12-1/4
11,072.0	11,072.0	7 5/8" 2nd Intermediate Casing	7-5/8	9-7/8
20,018.1	11,822.0	5 1/2" Production Casing	5-1/2	6-3/4

Company:	Kaiser Francis	**Local Co-ordinate Reference:**	Well Bell Lake Unit North 429H
Project:	Bell Lake Unit North 429H	**TVD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Site:	Bell Lake Unit North 429H	**MD Reference:**	WELL @ 3476.2usft (Original Well Elev)
Well:	Bell Lake Unit North 429H	**North Reference:**	Grid
Wellbore:	Bell Lake Unit North 429H	**Survey Calculation Method:**	Minimum Curvature
Design:	190915 Bell Lake Unit North 429H	**Database:**	EDM 5000.1 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
11,682.0	11,622.0	Wolfcamp		0.00	
1,722.0	1,722.0	Salado		0.00	
11,333.7	11,332.0	3rd BS Sand		0.00	
8,712.0	8,712.0	Bone Spring		0.00	
6,147.0	6,147.0	Cherry Canyon		0.00	
8,972.0	8,972.0	Avalon		0.00	
10,822.0	10,822.0	3rd BS Lime		0.00	
5,297.0	5,297.0	Bell Canyon		0.00	
1,347.0	1,347.0	Rustler		0.00	
5,022.0	5,022.0	Base of Salt		0.00	
2,022.0	2,022.0	Top of Salt		0.00	
5,222.0	5,222.0	Lamar		0.00	
10,422.0	10,422.0	2nd BS Sand		0.00	
7,572.0	7,572.0	Brushy Canyon		0.00	
9,822.0	9,822.0	1st BS Sand		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
11,185.0	11,185.0	0.0	0.0	Start Build 10.00
11,911.2	11,731.8	231.1	-328.6	Start DLS 10.01 TFO 77.64
12,466.7	11,822.0	698.7	-570.3	Start 7551.3 hold at 12466.7 MD
20,018.1	11,822.0	8,248.5	-720.7	TD at 20018.1

Checked By: _____ Approved By: _____ Date: _____

APD ID: 10400050031 **Submission Date:** 10/25/2019

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BLUN_429H_Existing_Roads_20191024181258.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

BLUN_429H_1_Mile_Map_20191024181319.pdf
BLUN_429H_1_Mile_Data_20191024181320.pdf

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Production facilities are planned for the north side of pad. Plan for initial wells: 2-1000 bbl water tanks and 5 -1000 bbl oil tanks, a temporary 6X20 horizontal 3-phase sep, a 48 X 10 3-phase sep, a 8 X 20 heater treater and a 48X 10 2-phase sep

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Brine Water

Water source use type: INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: STATE

Water source volume (barrels): 20000 **Source volume (acre-feet):** 2.57786193

Source volume (gal): 840000

Water source type: OTHER

Describe type: FRESH WATER

Water source use type: STIMULATION

OTHER **Describe use type:** ROAD/PAD CONSTRUCTION ANI

SURFACE CASING

Source latitude: **Source longitude:**

Source datum:

Water source permit type: PRIVATE CONTRACT

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Water source transport method: TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: OTHER

Describe transportation land ownership: Source trar is a mixture of Federal, State and County.

Water source volume (barrels): 250000

Source volume (acre-feet): 32.223274

Source volume (gal): 10500000

Water source and transportation map:

BLUN_Pad_11_Wtr_Source_Map_20191025112044.pdf

Water source comments: Source transportation land ownership is a mixture of Federal, State and County.

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: On site caliche will be used for construction if sufficient. In the event insufficient quantities of caliche are available onsite, caliche will be trucked in from BLM's caliche pit in SWSW Section 22-T24-R34E or NENE Section 20-T23S-R33E.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Miscellaneous trash

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility (Sandpoint Landfill (solid materials dump) NW/4 Section 11-T21S-R28E)

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility (Carlsbad sewer plant SENW Section 10-T22S-R27E)

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings

Amount of waste: 3900 barrels

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Cuttings will be hauled to R360's facility located in Section 27-T20S-R32E on US 62/180 at Halfway, NM

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Cuttings will be stored in roll off bins and hauled to R360 located in Section 27-T20S-R32E on US 62/180 near Halfway.

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

BLUN_DRILLING_LAYOUT_20190926080950.pdf

BLUN_429H_Well_Site_Plat_20191024181452.pdf

Comments:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: NORTH BELL LAKE UNIT

Multiple Well Pad Number: 11

Recontouring attachment:

BLUN_Pad_11_IR_Plat_20191025073656.pdf

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

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

Well pad proposed disturbance (acres): 3.57

Road proposed disturbance (acres): 0.033058

Powerline proposed disturbance (acres): 0

Pipeline proposed disturbance (acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 3.603058

Well pad interim reclamation (acres): 0.53

Road interim reclamation (acres): 0

Powerline interim reclamation (acres): 0

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 0.53

Well pad long term disturbance (acres): 3.04

Road long term disturbance (acres): 0.033058

Powerline long term disturbance (acres): 0

Pipeline long term disturbance (acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 3.073058

Disturbance Comments:

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

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

Soil treatment: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Existing Vegetation at the well pad: The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses

Existing Vegetation at the well pad attachment:

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

Existing Vegetation Community at the road attachment:

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

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: None

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: **Last Name:**

Phone: **Email:**

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

Weed treatment plan attachment:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

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

Monitoring plan attachment:

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

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: NM STATE LAND OFFICE, 602 N CANAL ST B, CARLSBAD, NM 88220

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other Information

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW Applications

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

SUPO Additional Information:

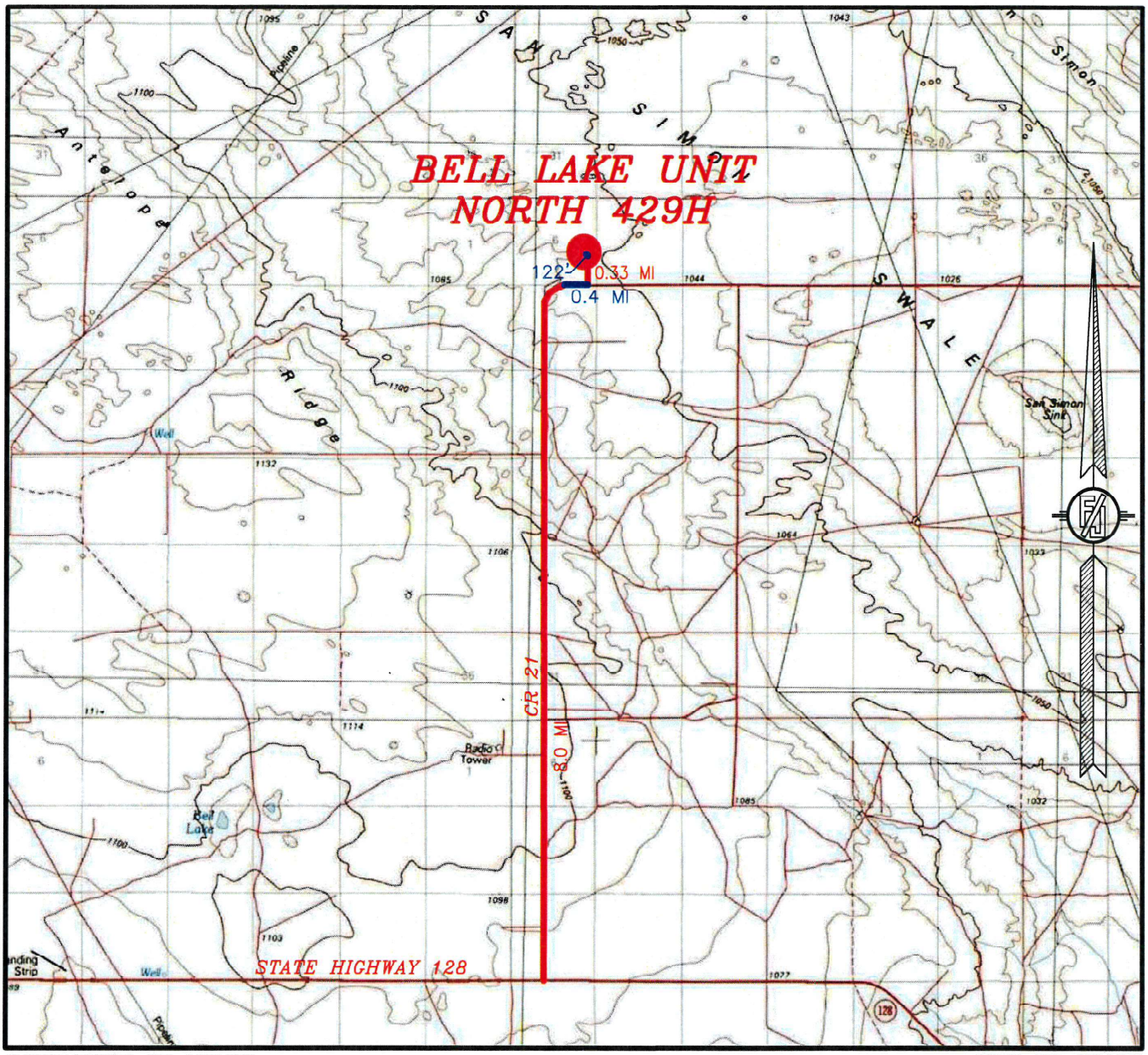
Use a previously conducted onsite? Y

Previous Onsite information: Onsite held March 14, 2019 with BLM rep, William Degrush, Kaiser-Francis rep, Eric Hansen and Frank Jaramillo with Madron Surveying.

Other SUPO Attachment

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION
FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 8.0 MILES WHERE ROAD BENDS EAST, THEN EAST 0.4 OF A MILE, TURN LEFT ON CALICHE ROAD AND GO NORTH 0.33 OF A MILE, TURN LEFT AND GO NORTHWEST 122' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

KAISER-FRANCIS OIL CO.
BELL LAKE UNIT NORTH 429H
LOCATED 1980 FT. FROM THE SOUTH LINE
AND 745 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

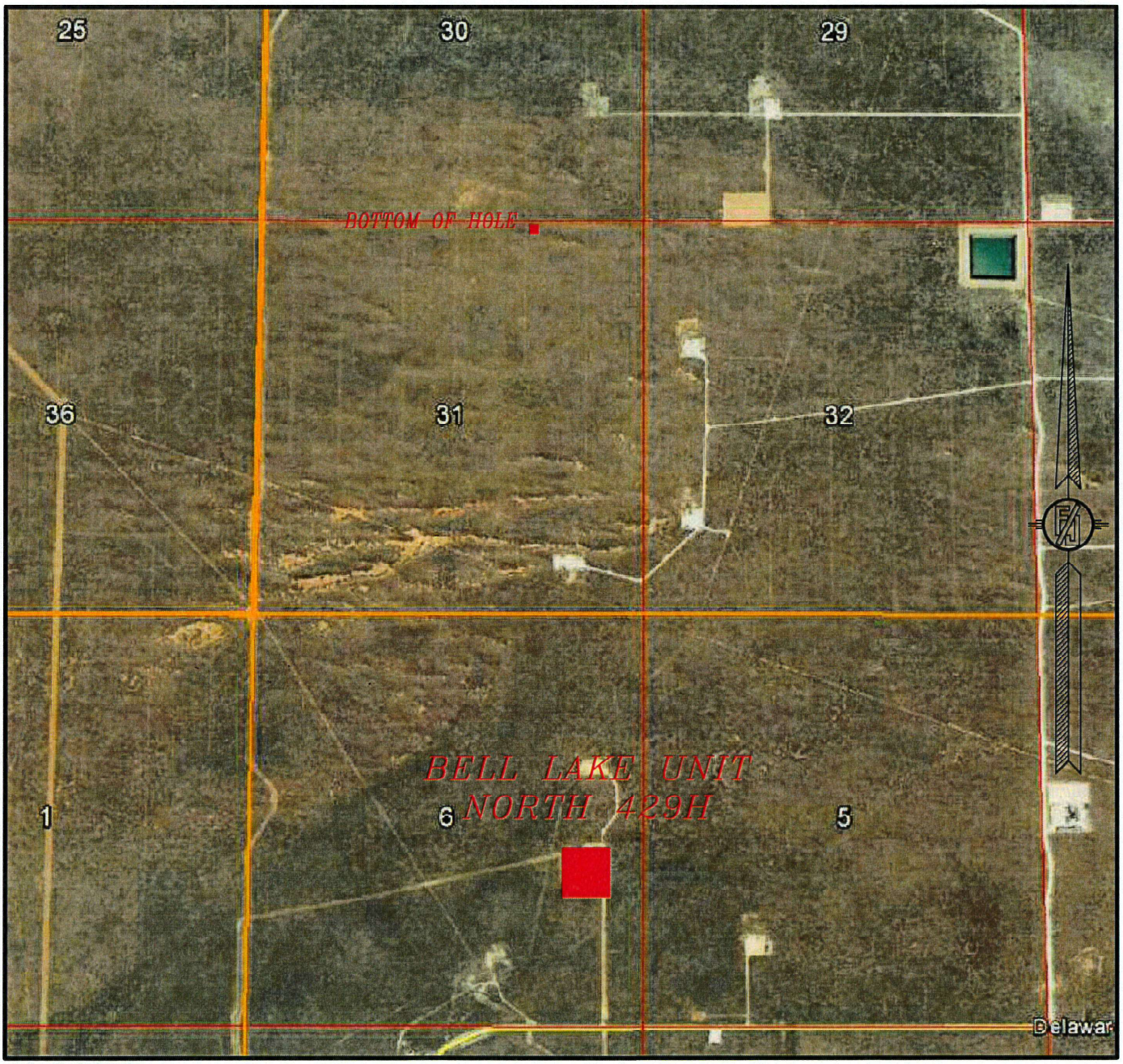
JANUARY 12, 2018

SURVEY NO. 5931

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2017

KAISER–FRANCIS OIL CO.

BELL LAKE UNIT NORTH 429H

LOCATED 1980 FT. FROM THE SOUTH LINE
AND 745 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 23 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JANUARY 12, 2018

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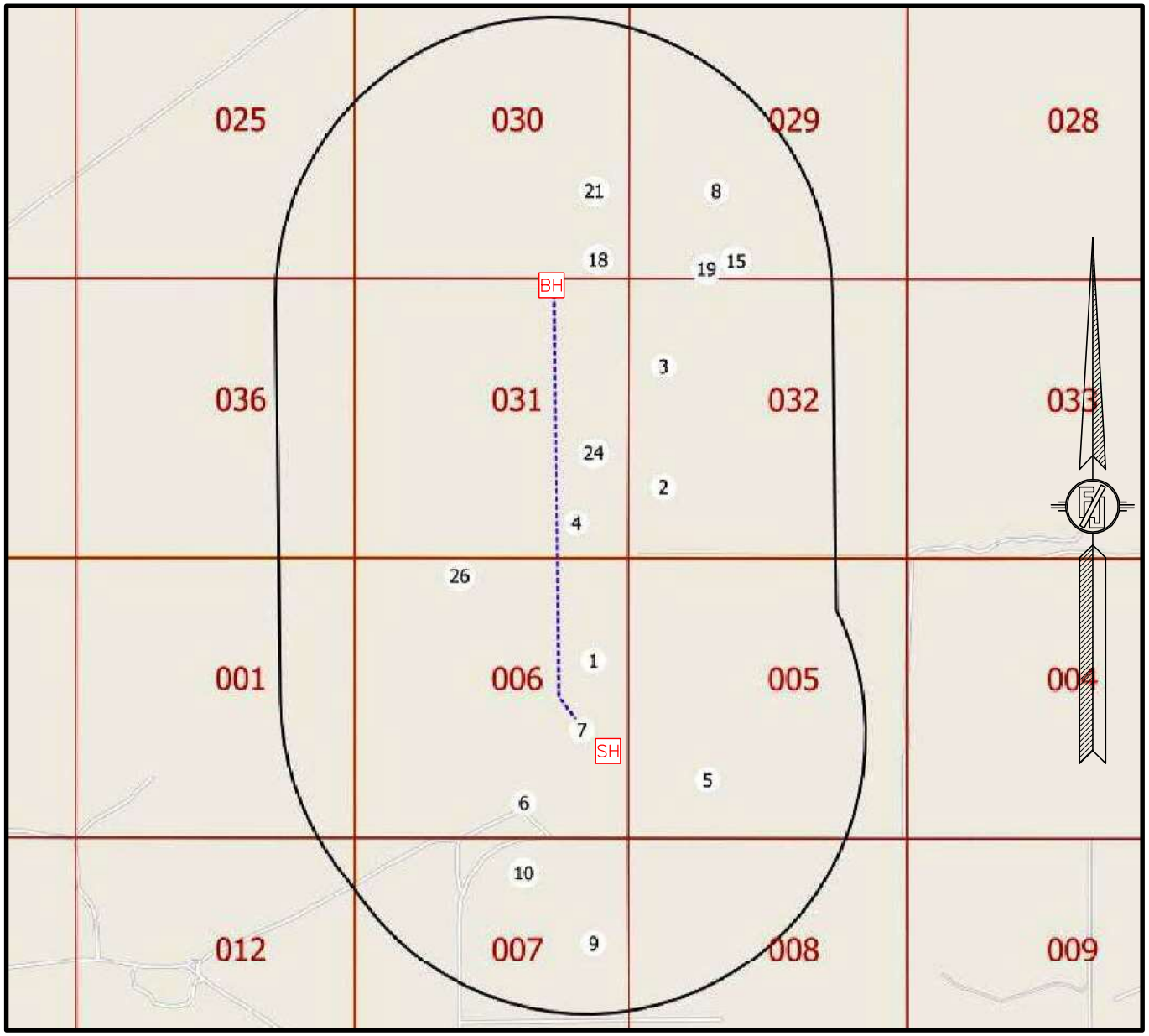
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

1-MILE MAP



NOT TO SCALE

SH SURFACE LOCATION
BH BOTTOM OF HOLE
XX WELLS WITHIN 1 MILE
WELL PATH
1-MILE BOUNDARY

KAISER-FRANCIS OIL CO.

BELL LAKE UNIT NORTH 429H

LOCATED 1980 FT. FROM THE SOUTH LINE AND 745 FT. FROM THE EAST LINE OF SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

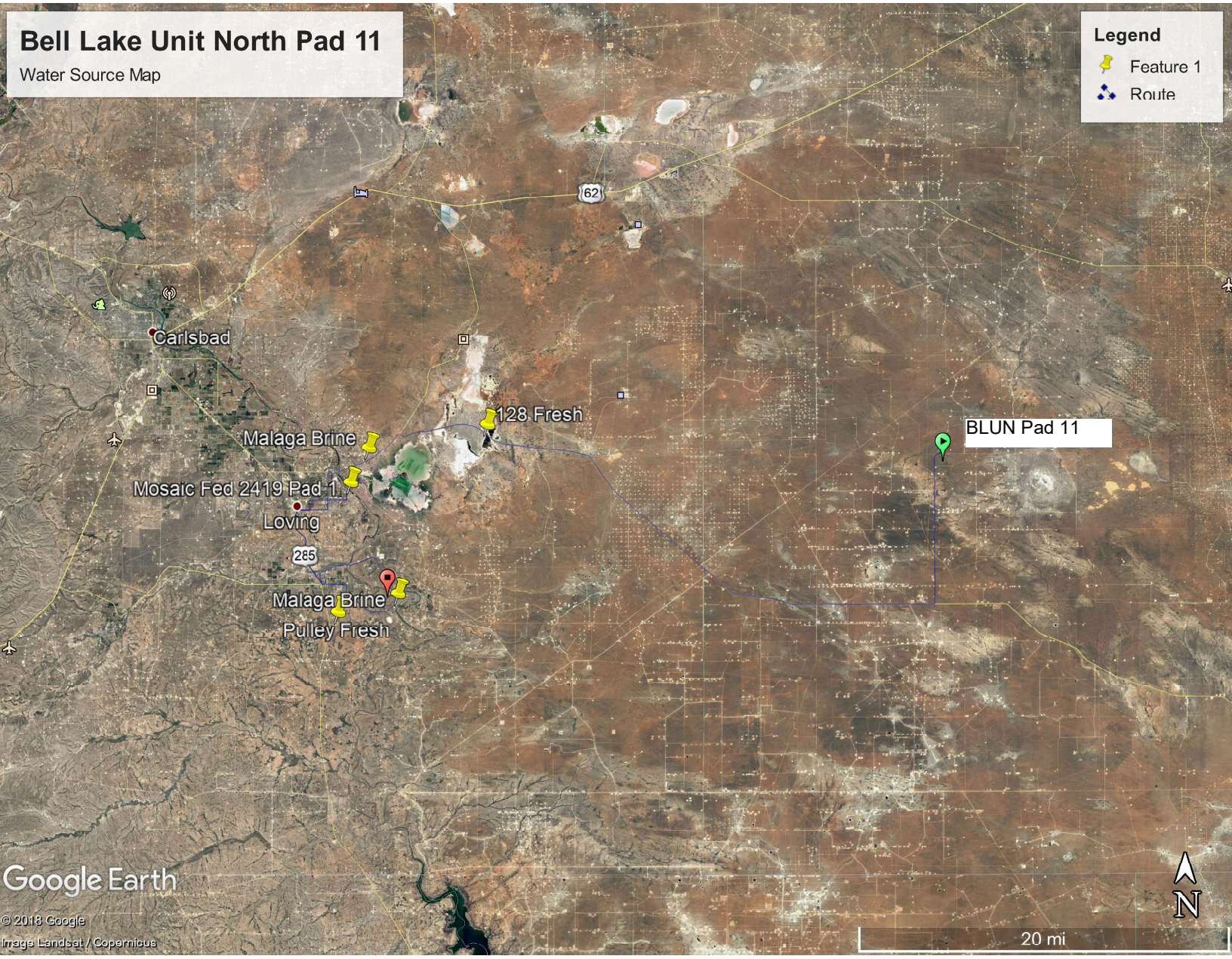
JANUARY 12, 2018

SURVEY NO. 5931

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

Kaiser-Francis Oil Company
Bell Lake Unit North 429H
One Mile Radius Data

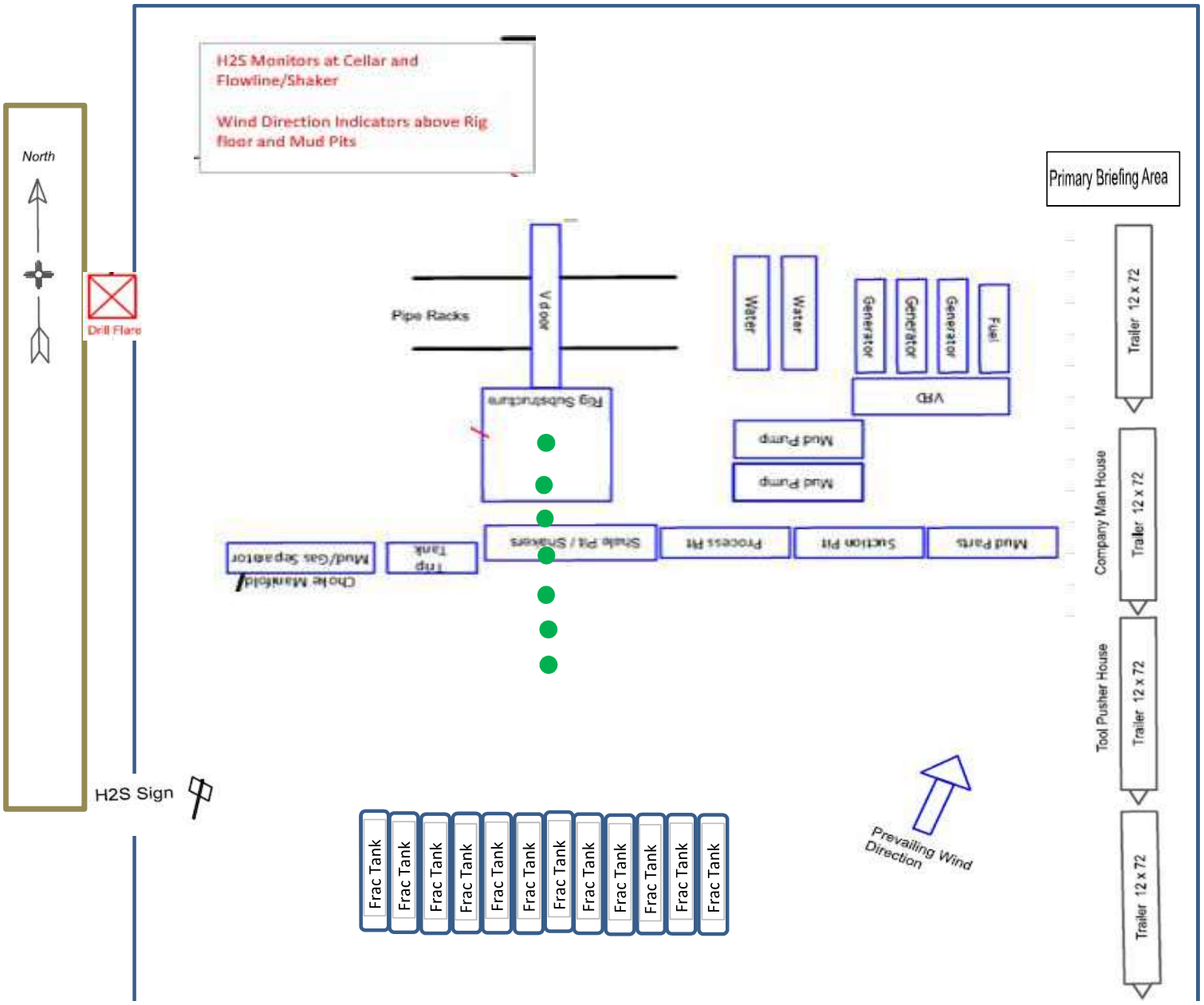
ID	API	wellname	well type	ulstr	ogrid	ogrid_name	status	dir status	elevation	meas_depth	tot_depth	latitude	longitude	pool_id_	.
1	30-025-33077	NORTH BELL LAKE FEDERAL #003	G	H-06-23S-34E	12361	KAISER-FRANCIS OIL CO	A	V	3456	17540	17540	32.3356552	-103.5028305	[71840]	.
2	30-025-35118	BELL LAKE UNIT #021	G	L-32-22S-34E	12361	KAISER-FRANCIS OIL CO	A	V	3431	13407	13407	32.3446426	-103.4985428	[96665]	'.
3	30-025-34629	BELL LAKE UNIT #020	G	E-32-22S-34E	12361	KAISER-FRANCIS OIL CO	E	V	3424	13370	13370	32.3509254	-103.4985275	[96665]	'.
4	30-025-35592	BELL LAKE UNIT #022	G	P-31-22S-34E	12361	KAISER-FRANCIS OIL CO	A	V	341	13430	13430	32.3427773	-103.503891	[96665]	'.
5	30-025-32672	NORTH BELL LAKE FEDERAL #002	O	N-05-23S-34E	12361	KAISER-FRANCIS OIL CO	A	V	3443	17710	17710	32.3294563	-103.4958344	[77680]	'.
6	30-025-08483	BELL LAKE UNIT #006	G	O-06-23S-34E	12361	KAISER-FRANCIS OIL CO	P	V	3485	16506	16506	32.3282585	-103.507103	[71840]	.
7	30-025-43033	BELL LAKE UNIT NORTH #230H	O	I-06-23S-34E	12361	KAISER-FRANCIS OIL CO	A	H	3456	18370	10226	32.332037	-103.503544	[5150] B	.
8	30-025-33682	GAUCHO UNIT #002	G	K-29-22S-34E	20305	DEVON SFS OPERATING INC	P	V	3426	3783	3783	32.359993	-103.4953003		.
9	30-025-24677	PRE-ONGARD WELL #015	O	H-07-23S-34E	214263	PRE-ONGARD WELL OPERATOR	C	0	0	0	0	32.32100115	-103.502823		.
10	30-025-38291	BELL LAKE #024	G	B-07-23S-34E	233545	BOLD ENERGY, L.P.	C	0	3468	0	0	32.32463432	-103.5071264	[71920]	.
18	30-025-45166	GAUCHO UNIT #026H	O	P-30-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	32.3564505	-103.5026562	[97922]	'.
18	30-025-45169	GAUCHO UNIT #033H	O	P-30-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	32.3564504	-103.5024619	[97922]	'.
15	30-025-45172	GAUCHO UNIT #089H	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3430	0	0	32.3563839	-103.4940009	[97922]	'.
15	30-025-45152	GAUCHO UNIT #037H	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	H	3431	15074	10375	32.3563859	-103.4942923	[97922]	'.
15	30-025-45158	GAUCHO UNIT #152H	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	H	3431	18120	10322	32.3563845	-103.494098	[97922]	'.
18	30-025-45167	GAUCHO UNIT #028H	O	P-30-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	32.3564504	-103.5027534	[97922]	'.
15	30-025-45165	GAUCHO UNIT #024H	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3430	0	0	32.3563832	-103.4939038	[97922]	'.
18	30-025-45168	GAUCHO UNIT #031H	O	P-30-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	N	H	3434	0	0	32.3564505	-103.5025591	[97922]	'.
19	30-025-42778	GAUCHO UNIT #020Y	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	V	3430	3798	3798	32.3559701	-103.4959063	[97922]	'.
15	30-025-45157	GAUCHO UNIT #153H	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	H	3431	17849	10344	32.3563852	-103.4941952	[97922]	'.
21	30-025-34149	GAUCHO UNIT #005	G	I-30-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	V	3438	13450	13450	32.3600006	-103.5027847	[96665]	'.
19	30-025-41978	GAUCHO UNIT #020	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	P	V	3428	1688	1688	32.3560066	-103.4957962	[97922]	'.
19	30-025-41979	GAUCHO UNIT #021C	O	N-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	H	3427	0	0	32.3560066	-103.4959564	[97922]	'.
24	30-025-38032	BELL LAKE UNIT #023I	O	I-31-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	C	0	3442	0	0	32.34640803	-103.5028259		.
8	30-025-34026	GAUCHO UNIT #002Y	G	K-29-22S-34E	6137	DEVON ENERGY PRODUCTION COMPANY, LP	A	V	3426	13340	13340	32.359993	-103.4950562	[96665]	'.
26	30-025-39075	BELL LAKE UNIT #031C	G	3-06-23S-34E	873	APACHE CORPORATION	C	0	3458	0	0	32.34006384	-103.5110471	[71920]	.


Bell Lake Unit North Pad 11
Water Source Map
Legend
Feature 1
Route
62
Carlsbad
128 Fresh
Malaga Brine
BLUN Pad 11
Mosaic Fed 2419 Pad 1
Loving
285
Malaga Brine
Pulley Fresh
Google Earth
© 2018 Google
Image Landsat / Copernicus
N
20 mi

General Drill Site Layout

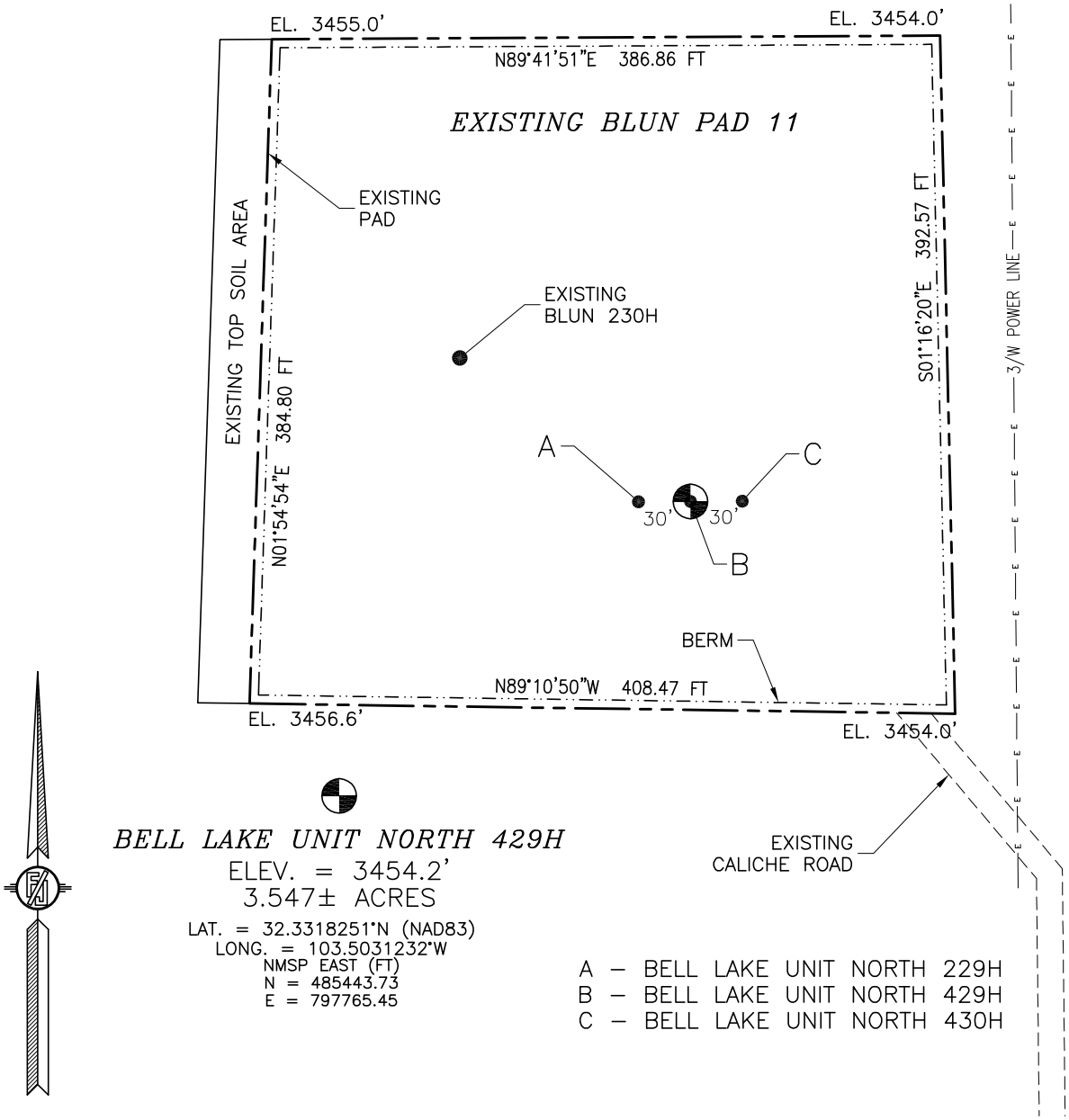
Pad Name: Bell Lake Unit North

● Well head



SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.



BELL LAKE UNIT NORTH 429H
ELEV. = 3454.2'
3.547± ACRES

LAT. = 32.3318251°N (NAD83)
LONG. = 103.5031232°W
NMSP EAST (FT)
N = 485443.73
E = 797765.45

A – BELL LAKE UNIT NORTH 229H
B – BELL LAKE UNIT NORTH 429H
C – BELL LAKE UNIT NORTH 430H

010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 8.0 MILES WHERE ROAD BENDS EAST, THEN EAST 0.4 OF A MILE, TURN LEFT ON CALICHE ROAD AND GO NORTH 0.33 OF A MILE, TURN LEFT AND GO NORTHWEST 122' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

1/12/18

FILIMON F. JARAMILLO PLS 12797 — DATE

KAISER–FRANCIS OIL CO.

BELL LAKE UNIT NORTH 429H

LOCATED 1980 FT. FROM THE SOUTH LINE AND 745 FT. FROM THE EAST LINE OF SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

JANUARY 12, 2018

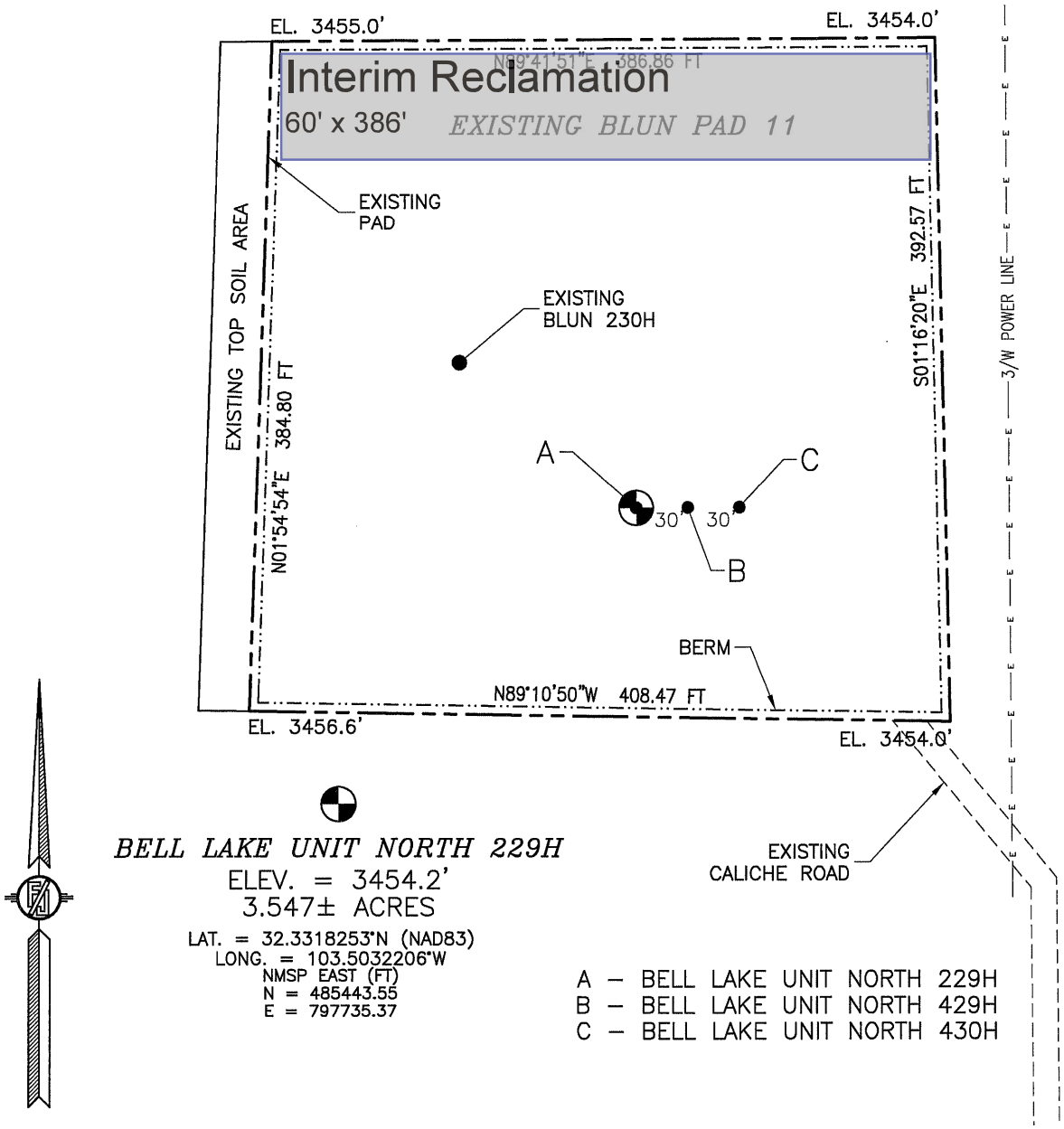
SURVEY NO. 5931

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 *CARLSBAD, NEW MEXICO*

SECTION 6, TOWNSHIP 23 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.



BELL LAKE UNIT NORTH 229H
ELEV. = 3454.2'
3.547± ACRES
LAT. = 32.3318253°N (NAD83)
LONG. = 103.5032206°W
NMSP EAST (FT)
N = 485443.55
E = 797735.37

A – BELL LAKE UNIT NORTH 229H
B – BELL LAKE UNIT NORTH 429H
C – BELL LAKE UNIT NORTH 430H

0 10 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION
FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 8.0 MILES WHERE ROAD BENDS EAST, THEN EAST 0.4 OF A MILE, TURN LEFT ON CALICHE ROAD AND GO NORTH 0.33 OF A MILE, TURN LEFT AND GO NORTHWEST 122' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

Kaiser-Francis Oil Company
Bell Lake Unit North
Pad 11
Interim Reclamation Plat

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

APD ID: 10400050031 **Submission Date:** 10/25/2019

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD discharge volume (bbl/day):

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH **Well Number:** 429H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

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

Bond Info Data Report

09/15/2020

APD ID: 10400050031

Submission Date: 10/25/2019

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 429H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number: WYB000055

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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

OCD – HOBBS
09/29/2020
RECEIVED

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-47772	98265	Ojo Chiso; Wolfcamp, Southwest

[4] Property Code	[5] Property Name	[6] Well Number
316707	BELL LAKE UNIT NORTH	429H

[7] OGRID No.	[8] Operator Name	[9] Elevation
12361	KAISER-FRANCIS OIL COMPANY	3454.2

[10] Surface Location

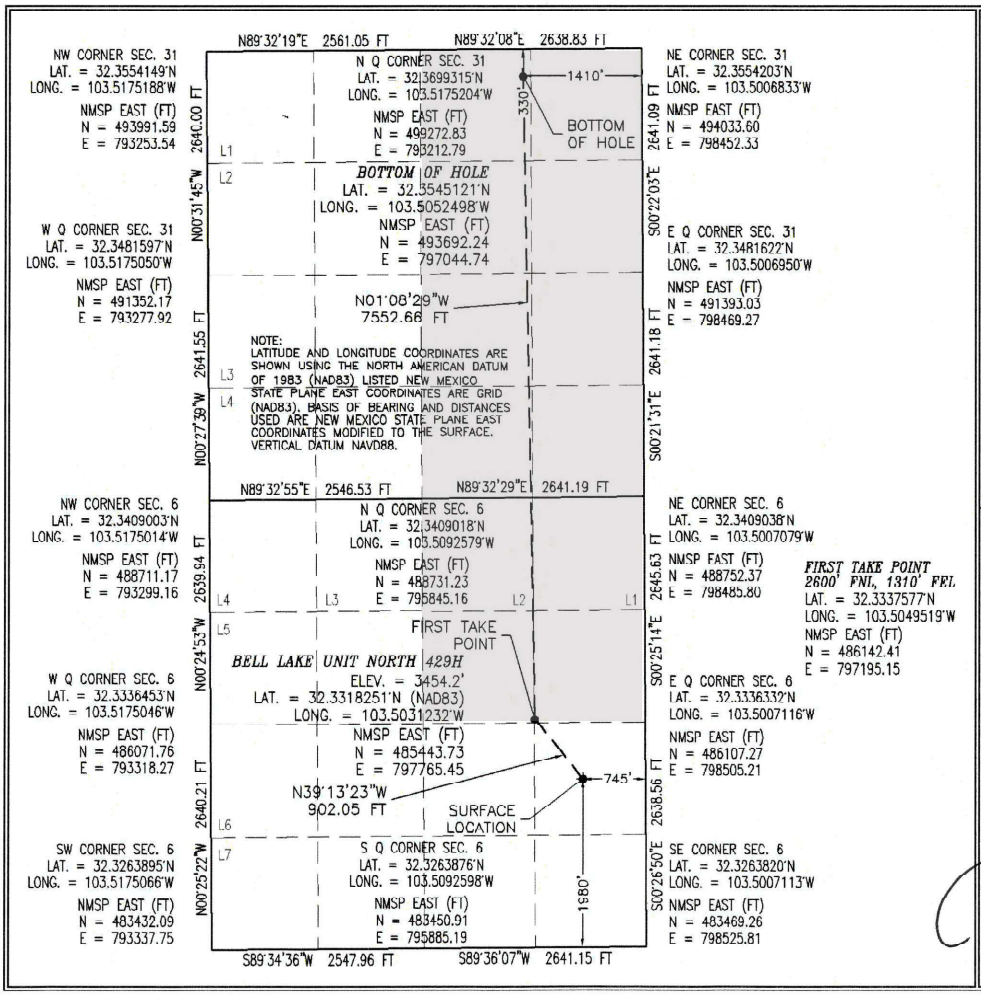
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	6	23 S	34 E		1980	SOUTH	745	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	31	22 S	34 E		330	NORTH	1410	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
480			R-14527A

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.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Melanie Wilson 10/21/2019
Signature Date

Melanie Wilson
Printed Name

mjp1692@gmail.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 12, 2018
Date of Survey

FILIMON F. JARAMILLO
NEW MEXICO
PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor:

Certificate Number: FILIMON F. JARAMILLO, PLS 12797

SURVEY NO. 5931

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Original to Appropriate District Office

OCD – HOBBS
09/29/2020
RECEIVED

GAS CAPTURE PLAN

Date: **01/26/2018**

☒ Original
☐ Amended - Reason for Amendment:

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

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 229H		6-23S-34E		2000	0	
Bell Lake Unit North 230H		6-23S-34E		2000	0	
Bell Lake Unit North 329H		6-23S-34E		2000	0	
Bell Lake Unit North 330H		6-23S-34E		2000	0	
Bell Lake Unit North 429H	30-025-47772	6-23S-34E		2000	0	
Bell Lake Unit North 430H		6-23S-34E		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 Targa and will be connected to Targa low/high pressure gathering system located in _Lea_ County, New Mexico. It will require _11,000' of pipeline to connect the facility to low/high pressure gathering system. Kaiser-Francis Oil Company provides (periodically) to Targa a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Kaiser-Francis Oil Company and Targa have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Targa Processing Plant located in Sec. _36_, Twn. __19S_, Rng._36E, __Lea__ 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 Targa system at that time. Based on current information, it is Kaiser-Francis Oil Company's 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