Form 3160-3 (June 2015) UNITED STATES			OCD - HOBI 04/22/2020		FORM A OMB No Expires: Ja	o. 1004-0	0137
DEPARTMENT OF THE IN BUREAU OF LAND MANA			DECEIVED)	5. Lease Serial No. NMNM0000587		
APPLICATION FOR PERMIT TO DI					6. If Indian, Allotee	or Tribe	Name
	EENTE	R			7. If Unit or CA Agr NMNM 068292X	reement,	Name and No.
	ther	-			8. Lease Name and		
1c. Type of Completion: Hydraulic Fracturing ✓ Sir	ngle Zo	one	Multiple Zone		BELL LAKE UNIT [31670] 434H		
2. Name of Operator KAISER FRANCIS OIL COMPANY [12361]						025-4	
	3b. Ph (918)		o. (include area cod 1000	le)	10. Field and Pool, o OJO CHISO/WOL		
4. Location of Well (Report location clearly and in accordance w	-		1 /		11. Sec., T. R. M. or SEC 5/T23S/R34E		l Survey or Area
At surface NESW / 1912 FSL / 2348 FWL / LAT 32.331				010145	3EC 3/1233/134E		
At proposed prod. zone NWNE / 330 FNL / 2290 FEL / L4		35451	28 / LONG - 103.4	910145	12. County or Parish	h	13. State
14. Distance in miles and direction from nearest town or post office 20 miles					LEA	li I	NM
15. Distance from proposed* 292 feet location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No 634.5		res in lease	17. Spaci 480.0	ng Unit dedicated to the	his well	
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 			d Depth / 19619 feet		/BIA Bond No. in file /B000055		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3432 feet	22. Ar 05/01/		mate date work will	start*	23. Estimated durati 40 days	ion	
	24.	Attac	hments				
The following, completed in accordance with the requirements of (as applicable)	Onsho	re Oil	and Gas Order No. 1	l, and the H	Iydraulic Fracturing r	ule per 4	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 		>	4. Bond to cover the Item 20 above).	ne operatior	is unless covered by ar	n existing	g bond on file (see
 A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office) 		s, the	5. Operator certific		mation and/or plans as	may be 1	requested by the
25. Signature (Electronic Submission)			<i>(Printed/Typed)</i> i Davis / Ph: (575)) 308-3765	5	Date 10/09/2	2019
Title Regulatory Analyst							
Approved by (Signature) (Electronic Submission)			(Printed/Typed) Layton / Ph: (575)	234-5959		Date 04/22/2	2020
Title Assistant Field Manager Lands & Minerals	C		ad Field Office				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds	legal o	or equitable title to the	hose rights	in the subject lease w	hich wou	Ild entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, most the United States any false, fictitious or fraudulent statements of						any depai	rtment or agency

GCP Rec 04/22/2020



05/01/2020

*(Instructions on page 2)

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Kaiser Francis Oil Company
LEASE NO.:	NMNM0000587
WELL NAME & NO.:	Bell Lake Unit North 434H
SURFACE HOLE FOOTAGE:	1912' FSL & 2348' FWL
BOTTOM HOLE FOOTAGE	330' FNL & 2' FEL
LOCATION:	Section 5, T 23S, R 34E, NMPM
COUNTY:	Lea County, New Mexico

H2S	• Yes	C No	
Potash	• None	© Secretary	C R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Variance	© None	🖲 Flex Hose	C Other
Wellhead	Conventional	🖲 Multibowl	© Both
Other	4 String Area	🗖 Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	Water Disposal	COM	🔽 Unit

A. HYDROGEN SULFIDE

1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated **500 feet** prior to drilling into the **Bell Lake** producing formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The **10-3/4**" surface casing shall be set at approximately **1407'** (to protect fresh water anticipated to a depth of 1382') and cemented to surface.
 - a. **If cement does not circulate to surface,** the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of **6 hours** after pumping cement, ideally between 8-10 hours after.
 - b. WOC time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 psi</u> compressive strength, whichever is greater. This is to include the lead cement.
 - c. If cement falls back, remedial cementing will be done prior to drilling out the shoe.
 - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

- 2. The **7-5/8**" intermediate casing shall be cemented to surface.
 - a. If cement does not circulate to surface, see B.1.a, c & d.
- 3. The **5-1/2**" production casing shall be cemented with at least **200' tie-back** into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- 2. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

D. SPECIAL REQUIREMENTS

- 2. The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number once it has been established.
 - a. A commercial well determination shall be submit after production has been established for at least six months. Secondary recovery unit wells are exempt from this requirement.

DR 03172020

GENERAL REQUIREMENTS

- 1. The BLM is to be notified in advance for a representative to witness:
 - a. Spudding the well (minimum of 24 hours)
 - b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
 - c. BOP/BOPE tests (minimum of 4 hours)

Eddy County: Call the Carlsbad Field Office, (575) 361-2822

Lea County: Call the Hobbs Field Station, (575) 393-3612

- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig:
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be available upon request. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the

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Approval Date: 04/22/2020

following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least $\underline{24}$ hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well-specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On the portion of well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

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Approval Date: 04/22/2020

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in Onshore Order 2 III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the BOP/BOPE tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test which can be initiated immediately after bumping the plug (only applies to single-stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be made available upon request.
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
 - f. BOP/BOPE must be tested within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth

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Approval Date: 04/22/2020

exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

1. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

- 1. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.
- 2. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



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



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Stormi Davis		Signed on: 10/08/2019
Title: Regulatory Analyst		
Street Address: 106 W. Riverside	Drive	
City: Carlsbad	State: NM	Zip: 88220
Phone: (575)308-3765		
Email address: nmogrservices@gr	nail.com	
Field Representative		
Representative Name:		
Street Address:		
City: S	tate:	Zip:
Phone: (918)491-4339		

Email address: erich@kfoc.net

FMSS

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

Application Data Report

04/22/2020

APD ID: 10400048804

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Type: OIL WELL

Submission Date: 10/09/2019

Well Number: 434H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID:	10400048804	Tie to previous NOS?	N	Submission Date: 10/09/2019
BLM Office:	CARLSBAD	User: Stormi Davis	Title:	Regulatory Analyst
Federal/Indi	an APD: FED	Is the first lease penet	rated for productio	n Federal or Indian? FED
Lease numb	er: NMNM0000587	Lease Acres: 634.55		
Surface acc	ess agreement in place?	Allotted?	Reservation:	
Agreement	in place? YES	Federal or Indian agree	ement: FEDERAL	
Agreement	number: NMNM068292X			
Agreement	name:			
Keep applic	ation confidential? Y			
Permitting A	Agent? YES	APD Operator: KAISER	R FRANCIS OIL COI	MPANY
Operator let	ter of designation:			

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

State: OK

Operator Address: 6733 S. Yale Ave.

Operator PO Box: PO Box 21468

Operator City: Tulsa

Zip: 74121

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan n	ame:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: BELL LAKE UNIT NORTH	Well Number: 434H	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

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

Is the propo	sed well in a Helium produc	tion area? N	Use Existing Well Pad?	'N	New surface disturbance?
Type of Well	Pad: MULTIPLE WELL		Multiple Well Pad Name		Number: 15
Well Class:	HORIZONTAL		NORTH BELL LAKE UN Number of Legs: 1	П	
Well Work T	ype: Drill				
Well Type: C	DIL WELL				
Describe We	ell Type:				
Well sub-Ty	pe: EXPLORATORY (WILDC)	AT)			
Describe sul	b-type:				
Distance to	town: 20 Miles	Distance to ne	arest well: 30 FT	Distanc	e to lease line: 292 FT
Reservoir w	ell spacing assigned acres l	Measurement:	480 Acres		
Well plat:	BLUN_434H_C102_201910	08075124.pdf			
	Pay.gov_20191009134238.p	bdf			
Well work st	art Date: 05/01/2020		Duration: 40 DAYS		

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number: 6962

Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	191 2	FSL	234 8	FW L	23S	34E		Aliquot NESW	32.33164 03	- 103.4931 115	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000058 7	343 2	0	0	N
KOP Leg #1	191 2	FSL	234 8	FW L	23S	34E		Aliquot NESW	32.33165 48	- 103.4911 707	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000058 7	- 754 2	110 05	109 74	N

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 434H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1-1	260 0	FNL	214 0	FEL	23S	34E	5	Aliquot SWNE	32.33376 11	- 103.4905 381	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000058 7	- 805 5	121 00	114 87	Y
PPP Leg #1-2	264 0	FNL	214 0	FEL	23S	34E	5	Aliquot SWNE	32.33360 65	- 103.4906 081	LEA		NEW MEXI CO	F	NMNM 000058 7	- 805 5	120 60	114 87	Y
PPP Leg #1-3	197 2	FSL	264 0	FEL	23S	34E	-	Aliquot NWSE	32.33179 88	- 103.4921 504	LEA		NEW MEXI CO	F	NMNM 000124 4A	- 425 2	770 0	768 4	N
EXIT Leg #1	330	FNL	229 0	FEL	22S	34E	32		32.35451 28	- 103.4910 145	LEA	NEW MEXI CO		S	STATE	- 805 5	196 19	114 87	Y
BHL Leg #1	330	FNL	229 0	FEL	22S	34E	32		32.35451 28	- 103.4910 145	LEA		NEW MEXI CO	S	STATE	- 805 5	196 19	114 87	Y



Pay.gov Payment Confirmation: BLM Oil and Gas Online Payment

notification@pay.gov <notification@pay.gov> To: nmogrservices@gmail.com Wed, Oct 9, 2019 at 1:40 PM



An official email of the United States government



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

Company: Kaiser-Francis Oil Company APD IDs: 10400048804 Lease Numbers: NMNM0000587 Well Numbers: 434H Note: You will need your Pay.gov Tracking ID to complete your APD transaction in AFMSS II. Please ensure you write this number down upon completion of payment.

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

[Quoted text hidden]

FMSS

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

APD ID: 10400048804

Operator Name: KAISER FRANCIS OIL COMPANY

Submission Date: 10/09/2019

Highlighted data reflects the most recent changes

Well Name: BELL LAKE UNIT NORTH

Well Number: 434H Well Work Type: Drill Show Final Text

Well Type: OIL WELL

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
556255		3432	Ö	0	OTHER : Surface	NONE	N
556256	RUSTLER	2210	1222	1222	SANDSTONE	NONE	N
556257	SALADO	1810	1622	1622	SALT	NONE	N
556258	TOP SALT	1610	1822	1822	SALT	NONE	N
556259	BASE OF SALT	-1290	4722	4722	SALT	NONE	N
556260	LAMAR	-1540	4972	4972	LIMESTONE	NATURAL GAS, OIL	N
556261	BELL CANYON	-1740	5172	5172	SANDSTONE	NATURAL GAS, OIL	N
556262	CHERRY CANYON	-2765	6197	6197	SANDSTONE	NATURAL GAS, OIL	N
556263	BRUSHY CANYON	-4090	7522	7522	SANDSTONE	NATURAL GAS, OIL	N
556264	BONE SPRING	-5190	8622	8622	SANDSTONE	NATURAL GAS, OIL	N
556265	AVALON SAND	-5263	8695	8695	SANDSTONE	NATURAL GAS, OIL	N
556266	BONE SPRING 1ST	-6115	9547	9547	SANDSTONE	NATURAL GAS, OIL	N
556273	BONE SPRING 2ND	-6595	10027	10027	SANDSTONE	NATURAL GAS, OIL	N
556274	BONE SPRING LIME	-7115	10547	10547	LIMESTONE	NATURAL GAS, OIL	N
556275	BONE SPRING 3RD	-7515	10947	10947	SANDSTONE	NATURAL GAS, OIL	Y
556276	WOLFCAMP	-7833	11265	11265	SANDSTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Drilling Plan Data Report

04/22/2020

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 434H

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

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_434H_Choke_Manifold_20191008080510.pdf

BOP Diagram Attachment:

BLUN_434H_Choke_Manifold_20191008080531.pdf

BLUN_434H_BOP_20200225101120.pdf

BLUN_434H_Wellhead_20200225101123.pdf

Cactus_Flex_Hose_16C_Certification_20200225101123.pdf

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	10.75	NEW	API	N	0	1272	0	1272	3432	2160	1272	J-55	40.5	ST&C	2.7	5.3	DRY	8.2	DRY	12.2
2	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	10922	0	10918		-7486	10922	HCP -110	29.7	LT&C	1.3	1.9	DRY	2.4	DRY	2.9
3	PRODUCTI ON	6.75	5.5	NEW	API	N	0	19619	0	11487		-8055	19619	P- 110		OTHER - Eagle SF	1.8	2	DRY	2.7	DRY	3.2

Section 3 - Casing

Well Number: 434H

Casing Attachments

Casing ID: 1 String Type: SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
BLUN_434HCasing_Assumptions_20191008080917.pdf
Casing ID: 2 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
BLUN_434HCasing_Assumptions_20191008080732.pdf
Casing ID: 3 String Type: PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
5.5_x_20_P110_HP_USS_EAGLE_SFH_Performance_Sheet_20191007153129.pdf
BLUN_434HCasing_Assumptions_20191008080846.pdf

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT NORTH

Well Number: 434H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1272	613	1.7	13.5	1060	50	ExtendaCem	Poly E Flake

INTERMEDIATE	Lead	0	1092 2	826	2.7	11	2257	25	NeoCem	Extender
INTERMEDIATE	Tail	0	1092 2	564	1.2	15.6	675	25	Halcem	none
PRODUCTION	Lead	9000	1961 9	833	1.2	14.5	1019	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 times

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1091 8	1148 7	OIL-BASED MUD	10	12							
1272	1091 8	OTHER : Diesel- Brine Emulsion	8.7	9							
0	1272	OTHER : Fresh Water	8.4	9							

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

Well Number: 434H

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,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7168

Anticipated Surface Pressure: 4640

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_Pad_15_H2S_Plan_20191007125628.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BLUN_434H___Directional_Plan_20191008081645.pdf

Other proposed operations facets description:

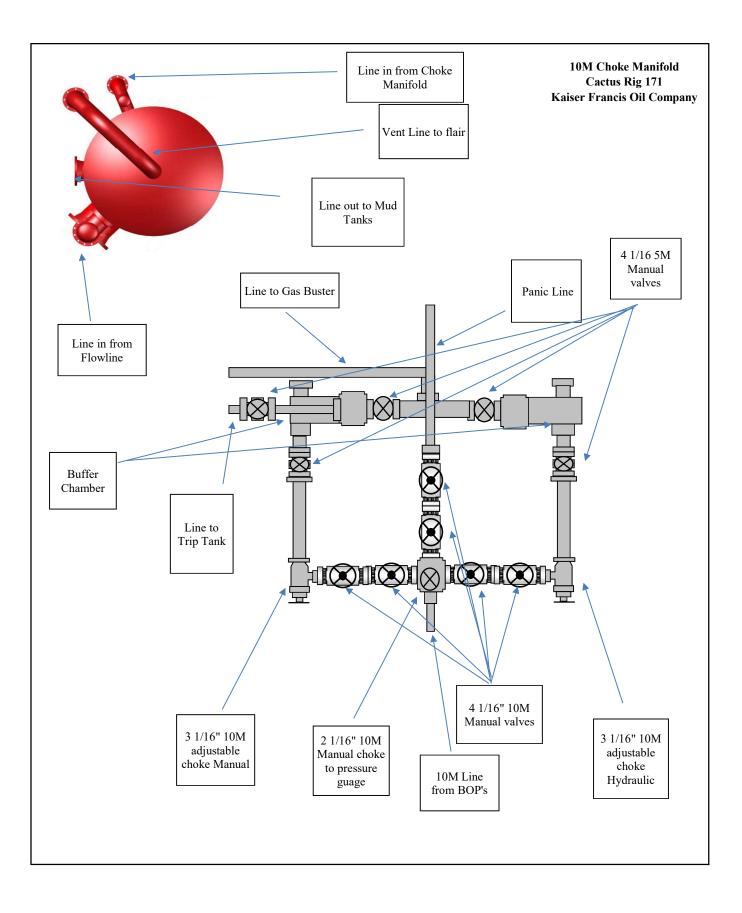
Gas Capture Plan attached

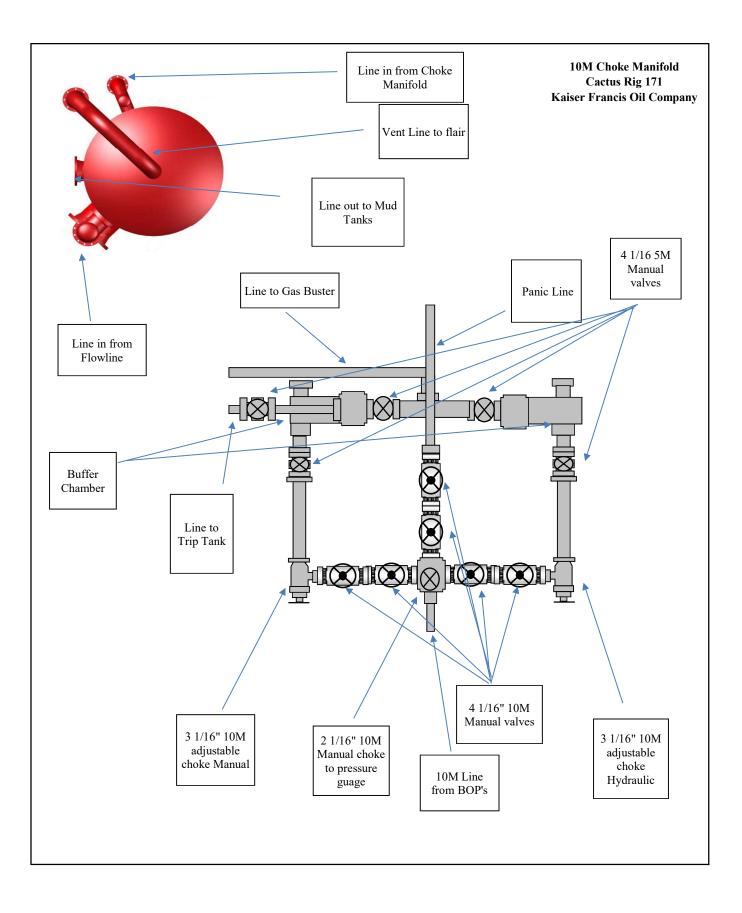
Other proposed operations facets attachment:

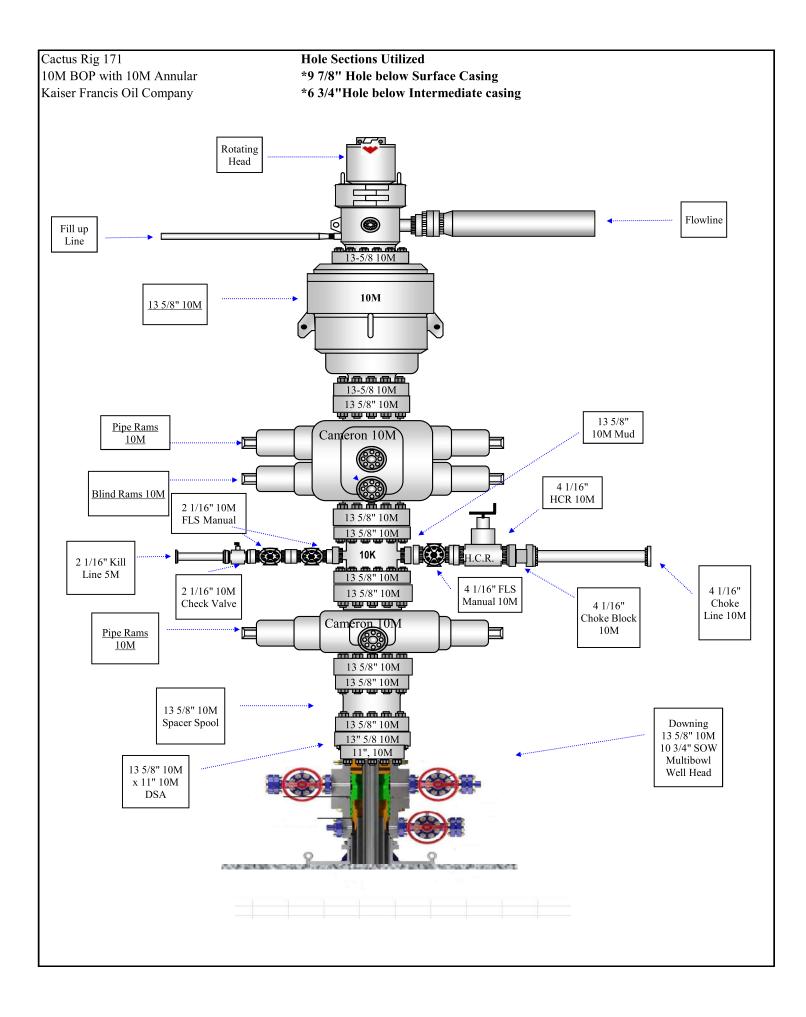
BLUN_Pad_15_GCP_20191007125653.pdf

Other Variance attachment:

Cactus_Flex_Hose_16C_Certification_20200225101236.pdf BLUN_434H_Wellhead_20200225101237.pdf

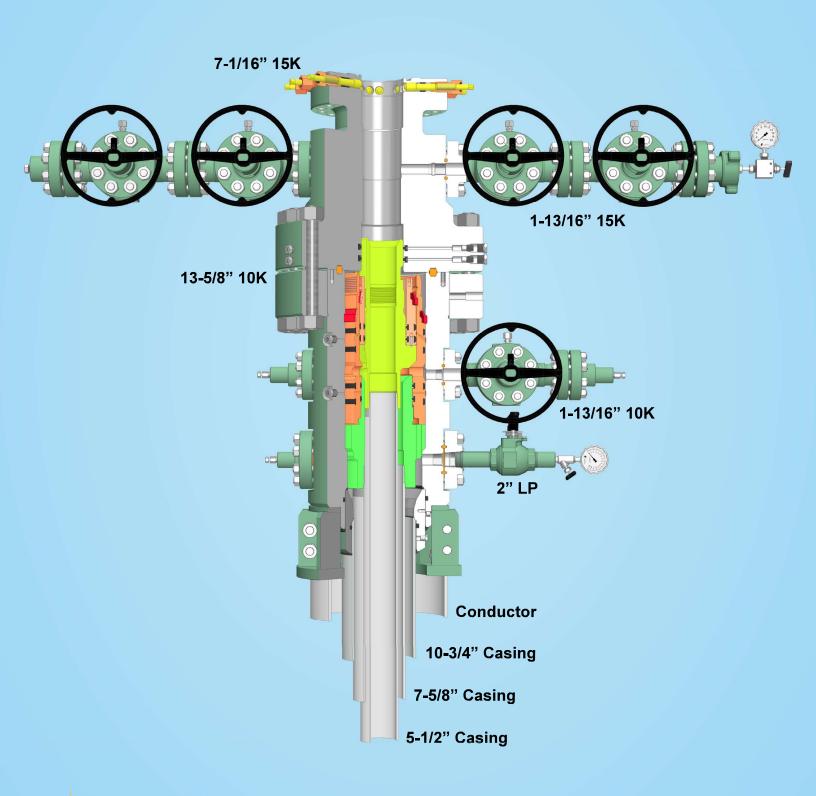








13-5/8" 10K MN-DS Wellhead



Kaiser-Francis Oil Company

a _	. (8			
Joint Tensile Safety	Min 1.8	8.2	2.4	2.7
Body Tensile Safety	Factor (Min 1.8)	12.2	2.9	3.2
Burst Safety Factor	(NIIN 1.0)	5.3	1.9	2.0
Collapse Safety Factor	(Min 1.1)	2.7	1.3	1.8
Joint Tensile	otrengtn	420000	769000	629000
Body Tensile	strengtn	629000	940000	729000
Burst (psi)		3130	9460	14360
Collapse (psi)		1580	6700	13150
Max Pore Pressure (psi)		595	5110	7168
ted ght	(Bdd)	6	6	12
Fluid Loss		NC	NC	
Viscosity		32 - 34	28-29	55-70
Mud Weight Hole Control		8.4 - 9.0	8.7 - 9.0	10.0 - 12.0
Mud Type		FW	Brine	OBM
TVD (ft)	120	1272	10918	11487
Hole Size		14-3/4"	-7/8"	6-3/4"
Condition Hole Size TVD (ft	New	New	New	New
Thread		STC	LTC	USS Eagle SFH
Grade		J-55	HCP110	P110 HP
Weight (#/ft)		40.5	29.7	20
Casing Size	20"	10-3/4"	7-5/8"	5-1/2"
Length	120	1272	10922	19619
Interval	Conductor	Surface	Intermediate	Production

U. S. Steel Tubular Products

5 1/2 20.00 lb (0.361) P110 HP

USS-EAGLE SFH™

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

Notes:

 Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

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

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

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

5) Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

6) Connection external pressure resistance has been verified to 10,000 psi (Fit-For-Service testing protocol).

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a _	. (8			
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Interval	Conductor	Surface	Intermediate	Production

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

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

LEA COUNTY, NM

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

TABLE OF CONTENTS

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

Activation of the Emergency Action Plan

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

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

General Responsibilities

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

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

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

INDIVIDUAL RESPONSIBILITIES DURING AN H2S RELEASE

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

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. Isola

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

Kaiser-Francis Oil Company Representative:

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

PROCEDURE FOR IGNITING AN UNCONTROLLABLE CONDITION:

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

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

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

INSTRUCTIONS FOR IGNITION:

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

CONTACTING AUTHORITIES

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

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

EMERGENCY RESPONSE NUMBERS: Lea County, New Mexico

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

PROTECTION OF THE GENERAL PUBLIC/ROE:

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

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

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

Calculation for the 100 ppm ROE:

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

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

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

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

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

PUBLIC EVACUATION PLAN:

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

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

CHARACTERISTICS OF H2S AND SO2

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

TRAINING:

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

PUBLIC RELATIONS

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

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

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

KAISER-FLANCIS OIL COMBANY

Kaiser Francis

Bell Lake Unit North 434H Plan: 190410 Bell Lake Unit North 434H

Morcor Standard Plan

10 April, 2019

-									
Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit Nor	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	_			Local Co-ordinate TVD Reference: MD Reference: North Reference: Survey Calculatic Database:	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	tH I Well Elev) I Well Elev)
Project	Bell	Bell Lake Unit North 434H	434H						
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datun New Mexico Eastern	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone				System Datum:	Ë	Mean Sea Level	
Site	Bell	Bell Lake Unit North 434H	134H						
Site Position:				Northing:		485,400.59 usft	Latitude:		32°19'53.905 N
From: Position Uncertainty:	Lat/Long ainty:	g 1.0 usft		Easting: Slot Radius:	:si	800,858.39 usft 17-1/2 "	Longitude: Grid Convergence:	rgence:	103° 29' 35.201 W 0.45 °
		Ball Laka Llait North 137H	1341						
Mell									
Well Position	S-/N+	0.0 usft		Northing:		485,400.59 usft		Latitude:	32° 19' 53.905 N
Position Uncertainty		0.0 usit 1.0 usft		casung: Wellhead Elevation:	vation:	ouv,opo.pg usit usft		congiuue. Ground Level:	3,432.2 usft
Wellbore	Bell	Bell Lake Unit North 434H	434H						
Magnetics	Model Name	Name	Sample Date	Declination (°)	ā	Dip Angle Fi (°)	Field Strength (nT)		
		IGRF2010	4/10/2019	6.59	29	60.10	47,906		
Design	1904	190410 Bell Lake Unit North 434H	it North 434H						
Audit Notes: Version:			Dhase'	DIAN	Tie On Denth:	C			
Vertical Section:		Depth F (t	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)			
			0.0	0.0	0.0	3.99			
Survey Tool Program	gram Date	e 4/10/2019							
From (usft)	To (usft)	Survey (Wellbore)	ore)	Tool Name		Description			
	0.0 19,619.0	0 190410 Bell Lá	19,619.0 190410 Bell Lake Unit North 434H (Bell La	Bell La MWD		MWD - Standard			

Morcor Engineering Morcor Standard Plan COMPASS 5000.1 Build 56

Page 2

4/10/2019 12:31:29PM

KAISSR-PRANCIS OIL COMPANY

						:			N	
Company: Project: Site: Vellbore: Design:	kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	434H 434H 434H 434H 434H it North 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Keterence: : in Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original W WELL @ 3454.2usft (Original W Grid Minimum Curvature EDM 5000.1 Single User Db	well bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	55
Planned Survey	ŀ									
MD (usft)	(°)	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	-3,454.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
2	50.0 0.00	0.00	50.0	-3,404.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
10	100.0 0.00	0.00	100.0	-3,354.2	0.0	0.0	800,858.39	485,400.59	00.0	0.00
12	120.0 0.00	0.00	120.0	-3,334.2	0.0	0.0	800,858.39	485,400.59	0.0	00.0
20" Conductor										
15	150.0 0.00	0.00	150.0	-3,304.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
20	200.0 0.00	00.00	200.0	-3,254.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
25	250.0 0.00	0.00	250.0	-3,204.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
30	300.0 0.00	0.00	300.0	-3,154.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
35	350.0 0.00	0.00	350.0	-3,104.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
40	400.0 0.00	0.00	400.0	-3,054.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
45	450.0 0.00	0.00	450.0	-3,004.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
20	500.0 0.00	0.00	500.0	-2,954.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
221	550.0 0.00	0.00	550.0	-2,904.2	0.0	0.0	800,858.39	485,400.59	00.0	0.00
60	600.0 0.00	0.00	600.0	-2,854.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
65	650.0 0.00	0.00	650.0	-2,804.2	0.0	0.0	800,858.39	485,400.59	0.0	00.0
20	700.0 0.00	0.00	700.0	-2,754.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
750	750.0 0.00	0.00	750.0	-2,704.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
80	800.0 0.00	0.00	800.0	-2,654.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
85	850.0 0.00	0.00	850.0	-2,604.2	0.0	0.0	800,858.39	485,400.59	00.0	0.00
06	0.00	0.00	0.006	-2,554.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
95	950.0 0.00	0.00	950.0	-2,504.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
1,000.0	0.0 0.00	0.00	1,000.0	-2,454.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
1,050.0	0.0	00.00	1,050.0	-2,404.2	0.0	0.0	800,858.39	485,400.59	00.00	0.00
1,100.0	0.0 0.00	0.00	1,100.0	-2,354.2	0.0	0.0	800,858.39	485,400.59	00.0	0.00
1,150.0	0.0 0.00	0.00	1,150.0	-2,304.2	0.0	0.0	800,858.39	485,400.59	0.00	00.0
1,200.0	0.0 0.00	0.00	1,200.0	-2,254.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00

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KAISSEE-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Froject: Bell Lake Unit North 434H Bell Lake Unit North 434H Well: A34H Bell Lake Unit North 434H Bell Lake Unit North 434H I 1,222.0 Azi (azimuth) CO ND 1,222.0 0.00 0.00 1,350.0 0.00 0.00 0.00 1,550.0 0.00 0.00 0.00 1,550.0 1,600 0.00 0.00 1,550.0 0.000 0.00 0.00 1,550.0 0.000 0.00 0.00 1,550.0 0.000 0.00 0.00 1,550.0 0.000 0.00 0.00 1,550.0 0.000 0.00 0.00 1,550.0 0.000 0.00 0.00 1,550.0 0.000 0.00 0.00 1,550.0 0.000 0.00 0.00	TVD (usft) 1,222.0 1,222.0 1,222.0 1,222.0 1,222.0 1,222.0 1,220.0 1,400.0 1,460.0 1,550.0	TVDSS N/S (usft) (usft) -2,232.2		TVD Reference: MD Reference: North Reference: Survey Calculation Method:		WELL @ 3454.2usft (Origina WELL @ 3454.2usft (Origina Grid Minimum Curvature EDM 6000 1 Sinclo Lloor Dh	WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature	
Inc Azi (azimuth) 2:0 0:00 0:00 2:0 0:00 0:00 2:0 0:00 0:00 2:0 0:00 0:00 2:0 0:00 0:00 2:0 0:00 0:00 2:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 0:00 0:00 0:0 <td< th=""><th>TVD (usft) 1,222.0 1,250.0 1,272.0 1,272.0 1,250.0 1,450.0 1,550.0</th><th>232.2 204.2</th><th></th><th>Database:</th><th>on Method:</th><th>ELINI JUUU. I JIIIYIE</th><th>e User Db</th><th></th></td<>	TVD (usft) 1,222.0 1,250.0 1,272.0 1,272.0 1,250.0 1,450.0 1,550.0	232.2 204.2		Database:	on Method:	ELINI JUUU. I JIIIYIE	e User Db	
Inc. Azi (azimuth) 1,222.0 0.00 0.00 1,222.0 0.00 0.00 1,222.0 0.00 0.00 1,250.0 0.00 0.00 1,272.0 0.00 0.00 1,272.0 0.00 0.00 1,250.0 0.00 0.00 1,300.0 0.00 0.00 1,400.0 0.00 0.00 1,450.0 0.00 0.00 1,450.0 0.00 0.00 1,450.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,850.0 0.00 0.00 1,850.0 0.00 0.00 1,850.0 0.00 0.00 1,850.0 0.00 0.00 1,950.0	TVD (usft) 1,222.0 1,250.0 1,272.0 1,272.0 1,250.0 1,400.0 1,450.0 1,550.0	232.2						
1,222.0 0.00 0.00 1,250.0 0.00 0.00 1,250.0 0.00 0.00 1,272.0 0.00 0.00 1,250.0 0.00 0.00 1,350.0 0.00 0.00 1,350.0 0.00 0.00 1,350.0 0.00 0.00 1,350.0 0.00 0.00 1,450.0 0.00 0.00 1,500.0 0.00 0.00 1,500.0 0.00 0.00 1,500.0 0.00 0.00 1,500.0 0.00 0.00 1,500.0 0.00 0.00 1,500.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0 0.00 0.00 1,550.0	1,222.0 1,250.0 1,272.0 1,300.0 1,350.0 1,400.0 1,450.0 1,550.0	232.2		E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
face Casing 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		-2,204.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
ace Casing 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		-2,204.2						
face Casing 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		7 1 8 7 7	0.0	0.0	800,858.39 800,858.39	485,400.59 485 400 50	0.00	0.00
ace Casing 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		-2,102.2	0.0	0.0	000,000	403,400.33	0.0	5
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		-2.154.2	0.0	0.0	800.858.39	485.400.59	0.00	0.00
				Ċ		401 400 E0		
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		-2,104.2	0.0	0.0	600,626.39	465,400.39	0.00	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		-2,004.2 -2 004 2	0.0		800,838.39 800 858 30	485,400.59	0.00	00.0
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		-1.954.2			800,858.39 800,858.39	485,400.39	0.00	
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		-1,904.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1,600.0	-1,854.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1,622.0	-1,832.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0								
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1,650.0	-1,804.2	0.0	0.0	800,858.39	485,400.59	00.0	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1,700.0	-1,754.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00	1,750.0	-1,704.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00 0.00 0.00 0.00 0.00	1,800.0	-1,654.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00 0.00 0.00 0.00	1,822.0	-1,632.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00 0.00 0.00								
0.00 00.0 00.0		-1,604.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00 0.00	1,900.0	-1,554.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00	1,950.0	-1,504.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
0.00	2,000.0	-1,454.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
	2,050.0	-1,404.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
2,100.0 0.00 0.00	2,100.0	-1,354.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
2,150.0 0.00 0.00	2,150.0	-1,304.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
2,200.0 0.00 0.00	2,200.0	-1,254.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00

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COMPASS 5000.1 Build 56

KAISSR PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H	434H 434H 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	e Reference:	Well Bell Lake Unit North 434H WELL © 3454.2usft (Original M WELL © 3454.2usft (Original M Grid	Well Bell Lake Unit North 434H WELL @ 3454 2usft (Original Well Elev) WELL @ 3454 2usft (Original Well Elev) Grid	
Wellbore: Design:	Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	434H it North 434H				Survey Calculation Method: Database:	on Method:	Minimum Curvature EDM 5000.1 Single User Db	e : User Db	
Planned Survey										
(tjsn)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
2,250.0	0.0	00.00	2,250.0	-1,204.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,300.0	0.0	00.00	2,300.0	-1,154.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,350.0	0.0	00.00	2,350.0	-1,104.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,400.0	0.0	00.00	2,400.0	-1,054.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,450.0	0.0	0.00	2,450.0	-1,004.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
2,500.0	0.0	0.00	2,500.0	-954.2	0.0	0.0	800,858.39	485,400.59	00.0	0.00
2,550.0	0.0	00.00	2,550.0	-904.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,600.0	0.0	00.00	2,600.0	-854.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,650.0	0.0	00.00	2,650.0	-804.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,700.0	0.0	00.00	2,700.0	-754.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,750.0	0.00	0.00	2,750.0	-704.2	0.0	0.0	800,858.39	485,400.59	00.0	0.00
2,800.0	0.0	00.00	2,800.0	-654.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
2,850.0	0.0	00.00	2,850.0	-604.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
2,900.0	0.0	00.00	2,900.0	-554.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
2,950.0	0.0	0.00	2,950.0	-504.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,000.0	0.00	0.00	3,000.0	-454.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,050.0	0.0	00.00	3,050.0	-404.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,100.0	0.0	00.00	3,100.0	-354.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
3,150.0	0.0	00.00	3,150.0	-304.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
3,200.0	0.0	00.00	3,200.0	-254.2	0.0	0.0	800,858.39	485,400.59	0.00	00.00
3,250.0	0.0	0.00	3,250.0	-204.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,300.0	0.0	00.00	3,300.0	-154.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,350.0	0.0	00.00	3,350.0	-104.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,400.0	0.0	00.00	3,400.0	-54.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,450.0	0.0	0.00	3,450.0	4.2	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,500.0	0.0	00.00	3,500.0	45.8	0.0	0.0	800,858.39	485,400.59	0.00	00.00
3,550.0	0.0 0.00	0.00	3,550.0	95.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00

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COMPASS 5000.1 Build 56

KASSRPRANCSS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	1434H 1434H 1434H 1434H 1434H nit North 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	ate Reference: a: ion Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original V WELL @ 3454.2usft (Original V Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	2.2
Planned Survey										
(tjsn)	lnc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
3,600.0	0.0	00.00	3,600.0	145.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,650.0	0.0	00.00	3,650.0	195.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,700.0	0.0	00.00	3,700.0	245.8	0.0	0.0	800,858.39	485,400.59	00.00	0.00
3,750.0	0.0	0.00	3,750.0	295.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,800.0	0.0	00.00	3,800.0	345.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,850.0	0.0	00.00	3,850.0	395.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,900.0	0.0	00.00	3,900.0	445.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
3,950.0	0.0	00.00	3,950.0	495.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,000.0	0.0	0.00	4,000.0	545.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,050.0	0.0	00.00	4,050.0	595.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,100.0	0.0	00.00	4,100.0	645.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,150.0	0.0	00.00	4,150.0	695.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,200.0	0.0	00.00	4,200.0	745.8	0.0	0.0	800,858.39	485,400.59	00.00	0.00
4,250.0	0.0	00.00	4,250.0	795.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,300.0	0.0	00.00	4,300.0	845.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,350.0	0.0	00.00	4,350.0	895.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,400.0	0.0	00.00	4,400.0	945.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,450.0	0.0	00.00	4,450.0	995.8	0.0	0.0	800,858.39	485,400.59	00.00	0.00
4,500.0	0.0	0.00	4,500.0	1,045.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,550.0	0.0	00.00	4,550.0	1,095.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,600.0	0.0	00.00	4,600.0	1,145.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,650.0	0.0	00.00	4,650.0	1,195.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,700.0	0.0	00.00	4,700.0	1,245.8	0.0	0.0	800,858.39	485,400.59	00.0	0.00
4,722.0	2.0 0.00	00.00	4,722.0	1,267.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
Base of Salt										
4,750.0	0.0 0.00		4,750.0	1,295.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,800.0	0.0	00.00	4,800.0	1,345.8	0.0	0.0	800,858.39	485,400.59	00.00	0.00

COMPASS 5000.1 Build 56

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KAISSE-PEANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Wellbore:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 300400 Ball Job Lake Unit North 434H	434H 434H 434H 434H 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	ate Reference: 3: ion Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original M WELL @ 3454.2usft (Original M Grid Minimum Curvature	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature	
Planned Survey						64149496			5	
QW	<u>2</u>	Azi (azimuth)	TVD	TVDSS	N/S	EW	Easting	Northing	V. Sec	DLeg
(nsft)	(.)	(.)	(nsft)	(nsft)	(usft)	(nsft)	(nsft)	(usft)	(nsft)	£
4,850.0	0.00	0.00	4,850.0	1,395.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,900.0	0.0 0.0	00.00	4,900.0	1,445.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,950.0	0.00	0.00	4,950.0	1,495.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
4,972.0	2.0 0.00	00.00	4,972.0	1,517.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
Lamar										
5,000.0	0.0 0.00	00.00	5,000.0	1,545.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
5,050.0	0.0 0.00	00.00	5,050.0	1,595.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
5,100.0	0.00	00.00	5,100.0	1,645.8	0.0	0.0	800,858.39	485,400.59	0.00	0.00
5,150.0	0.0 1.50	90.00	5,150.0	1,695.8	0.0	0.7	800,859.04	485,400.59	0.05	3.00
5,172.0	2.0 2.16	6 90.00	5,172.0	1,717.8	0.0	1.4	800,859.75	485,400.59	0.09	3.00
Bell Canyon	lon									
5,200.0	0.0 3.00	00.00	5,200.0	1,745.8	0.0	2.6	800,861.01	485,400.59	0.18	3.00
5,250.0	0.0 4.50	00.00	5,249.8	1,795.6	0.0	5.9	800,864.28	485,400.59	0.41	3.00
5,300.0	0.0 6.00	00.00	5,299.6	1,845.4	0.0	10.5	800,868.85	485,400.59	0.73	3.00
5,350.0	0.0 6.00	00.00	5,349.4	1,895.2	0.0	15.7	800,874.08	485,400.59	1.09	0.00
5,400.0	0.0 6.00	00.00	5,399.1	1,944.9	0.0	20.9	800,879.30	485,400.59	1.46	0.00
5,450.0	0.0 6.00	00.00	5,448.8	1,994.6	0.0	26.1	800,884.53	485,400.59	1.82	0.00
5,500.0	0.0 6.00	00.00	5,498.5	2,044.3	0.0	31.4	800,889.76	485,400.59	2.19	0.00
5,550.0	0.0 6.00	00.00	5,548.3	2,094.1	0.0	36.6	800,894.98	485,400.59	2.55	0.00
5,600.0	0.0 6.00	00.00	5,598.0	2,143.8	0.0	41.8	800,900.21	485,400.59	2.91	0.00
5,650.0	0.0 6.00	00.00	5,647.7	2,193.5	0.0	47.0	800,905.44	485,400.59	3.28	0.00
5,700.0	0.0 6.00	00.00	5,697.4	2,243.2	0.0	52.3	800,910.66	485,400.59	3.64	0.00
5,750.0	0.0 6.00	00.00	5,747.2	2,293.0	0.0	57.5	800,915.89	485,400.59	4.01	0.00
5,800.0	0.0 6.00	00.00	5,796.9	2,342.7	0.0	62.7	800,921.12	485,400.59	4.37	0.00
5,850.0	0.0 6.00	00.00	5,846.6	2,392.4	0.0	68.0	800,926.34	485,400.59	4.73	0.00
5,900.0	0.0 6.00	00.00	5,896.3	2,442.1	0.0	73.2	800,931.57	485,400.59	5.10	0.00
5,950.0	0.0 6.00	00.00	5,946.1	2,491.9	0.0	78.4	800,936.79	485,400.59	5.46	0.00

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COMPASS 5000.1 Build 56

KAISSR-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Vell: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	434H 434H 434H 134H 134H 1 North 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Reference: :: on Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original M WELL @ 3454.2usft (Original M Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454 2usft (Original Well Elev) WELL @ 3454 2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	
Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (11sh)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
6,000.0	0.0 6.00	00.00	5,995.8	2,541.6	0.0	83.6	800,942.02	485,400.59	5.83	0.00
6,050.0	0.0 6.00	90.00	6,045.5	2,591.3	0.0	88.9	800,947.25	485,400.59	6.19	0.00
6,100.0	0.0 6.00	90.00	6,095.3	2,641.1	0.0	94.1	800,952.47	485,400.59	6.55	0.00
6,150.0	0.0	90.00	6,145.0	2,690.8	0.0	99.3	800,957.70	485,400.59	6.92	0.00
6,200.0	0.0 6.00	60.00	6,194.7	2,740.5	0.0	104.5	800,962.93	485,400.59	7.28	0.00
6,202.3	2.3 6.00	90.00	6,197.0	2,742.8	0.0	104.8	800,963.17	485,400.59	7.30	0.00
Cherry Canyon										
6,250.0	0.0 6.00	90.00	6,244.4	2,790.2	0.0	109.8	800,968.15	485,400.59	7.65	00.00
6,300.0	0.0 6.00	00.00	6,294.2	2,840.0	0.0	115.0	800,973.38	485,400.59	8.01	0.00
6,350.0	0.0 6.00	90.00	6,343.9	2,889.7	0.0	120.2	800,978.61	485,400.59	8.37	0.00
6,400.0	0.0	90.00	6,393.6	2,939.4	0.0	125.4	800,983.83	485,400.59	8.74	0.00
6,450.0	0.0	90.00	6,443.3	2,989.1	0.0	130.7	800,989.06	485,400.59	9.10	0.00
6,500.0	0.0 6.00	90.00	6,493.1	3,038.9	0.0	135.9	800,994.29	485,400.59	9.47	0.00
6,550.0	0.0 6.00	90.00	6,542.8	3,088.6	0.0	141.1	800,999.51	485,400.59	9.83	0.00
6,600.0	0.0 6.00	90.00	6,592.5	3,138.3	0.0	146.3	801,004.74	485,400.59	10.20	0.00
6,650.0	0.0	90.00	6,642.2	3,188.0	0.0	151.6	801,009.96	485,400.59	10.56	0.00
6,700.0	0.0 6.00	60.00	6,692.0	3,237.8	0.0	156.8	801,015.19	485,400.59	10.92	0.00
6,750.0	0.0 6.00	00.00	6,741.7	3,287.5	0.0	162.0	801,020.42	485,400.59	11.29	0.00
6,800.0	0.0 6.00	90.00	6,791.4	3,337.2	0.0	167.3	801,025.64	485,400.59	11.65	0.00
6,850.0	0.0	90.00	6,841.1	3,386.9	0.0	172.5	801,030.87	485,400.59	12.02	0.00
6,900.0	0.0	90.00	6,890.9	3,436.7	0.0	177.7	801,036.10	485,400.59	12.38	0.00
6,950.0	0.0 6.00	60.00	6,940.6	3,486.4	0.0	182.9	801,041.32	485,400.59	12.74	0.00
7,000.0	0.0 6.00	90.00	6,990.3	3,536.1	0.0	188.2	801,046.55	485,400.59	13.11	0.00
7,050.0	0.0 6.00	90.00	7,040.0	3,585.8	0.0	193.4	801,051.78	485,400.59	13.47	0.00
7,100.0	0.0 0.0	00.00	7,089.8	3,635.6	0.0	198.6	801,057.00	485,400.59	13.84	0.00
7,150.0	0.0 0.0	00.00	7,139.5	3,685.3	0.0	203.8	801,062.23	485,400.59	14.20	0.00
7,200.0	0.0 6.00	00.06	7,189.2	3,735.0	0.0	209.1	801,067.45	485,400.59	14.56	0.00

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KARER PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 190410 Bell Lake Unit Nor	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	34H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	ate Reference: : e: tion Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original V WELL @ 3454.2usft (Original V Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454. Zusft (Original Well Elev) WELL @ 3454. Zusft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	
Planned Survey											
(1JSN)	(°)	Azi (a	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
7,250.0	0.	6.00	90.00	7,239.0	3,784.8	0.0	214.3	801,072.68	485,400.59	14.93	00.00
7,300.0	0.	6.00	90.00	7,288.7	3,834.5	0.0	219.5	801,077.91	485,400.59	15.29	0.00
7,350.0	0.	6.00	90.00	7,338.4	3,884.2	0.0	224.7	801,083.13	485,400.59	15.66	0.00
7,400.0	0.	6.00	90.00	7,388.1	3,933.9	0.0	230.0	801,088.36	485,400.59	16.02	0.00
7,450.0	0.	6.00	90.00	7,437.9	3,983.7	0.0		801,093.59	485,400.59	16.38	00.00
7,500.0	0.	6.00	90.00	7,487.6	4,033.4	0.0	240.4	801,098.81	485,400.59	16.75	0.00
7,534.6	9.	6.00	90.00	7,522.0	4,067.8	0.0	244.0	801,102.43	485,400.59	17.00	00.00
Brushy Canyon	anyon										
7,550.0	O.	6.00	90.00	7,537.3	4,083.1	0.0	245.7	801,104.04	485,400.59	17.11	0.00
7,600.0	0.	6.00	90.00	7,587.0	4,132.8	0.0	250.9	801,109.27	485,400.59	17.48	0.00
7,650.0	0.	6.00	90.00	7,636.8	4,182.6	0.0	256.1	801,114.49	485,400.59	17.84	0.00
7,700.0	0.	6.00	90.00	7,686.5	4,232.3	0.0	261.3	801,119.72	485,400.59	18.21	00.0
7,750.0	0.	6.00	90.00	7,736.2	4,282.0	0.0	266.6	801,124.95	485,400.59	18.57	00.0
7,800.0	0.	6.00	90.00	7,785.9	4,331.7	0.0	271.8	801,130.17	485,400.59	18.93	0.00
7,850.0	0.	6.00	90.00	7,835.7	4,381.5	0.0	277.0	801,135.40	485,400.59	19.30	0.00
7,900.0	0.	6.00	90.00	7,885.4	4,431.2	0.0	282.2	801,140.62	485,400.59	19.66	0.00
7,950.0	0.	6.00	90.00	7,935.1	4,480.9	0.0	287.5	801,145.85	485,400.59	20.03	00.00
8,000.0	0.	6.00	90.00	7,984.8	4,530.6	0.0	292.7	801,151.08	485,400.59	20.39	00.00
8,050.0	0.	6.00	90.00	8,034.6	4,580.4	0.0	297.9	801,156.30	485,400.59	20.75	0.00
8,100.0	0.	6.00	90.00	8,084.3	4,630.1	0.0	303.1	801,161.53	485,400.59	21.12	0.00
8,150.0	0.	6.00	90.00	8,134.0	4,679.8	0.0	308.4	801,166.76	485,400.59	21.48	0.00
8,200.0	0.	6.00	90.00	8, 183. 7	4,729.5	0.0	313.6	801,171.98	485,400.59	21.85	00.0
8,250.0	0.	6.00	90.00	8,233.5	4,779.3	0.0	318.8	801,177.21	485,400.59	22.21	00.0
8,300.0	0.	6.00	90.00	8,283.2	4,829.0	0.0	324.0	801,182.44	485,400.59	22.57	0.00
8,350.0	0.	6.00	90.00	8,332.9	4,878.7	0.0	329.3	801,187.66	485,400.59	22.94	0.00
8,400.0	0.	6.00	90.00	8,382.7	4,928.5	0.0	334.5	801,192.89	485,400.59	23.30	0.00
8,450.0	0.	6.00	90.00	8,432.4	4,978.2	0.0	339.7	801,198.12	485,400.59	23.67	00.0

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COMPASS 5000.1 Build 56

KAISBR-PEANCIS OIL COMPANY

Bell late Un Month 34H Bell late Un Month 34H	Company:	Kaiser Francis						Local Co-ordinate Reference:	e Reference:	Well Bell Lake Unit North 434H	North 434H	
Interpretation Interpreadit Interpretation Interpre	Project: Site: Well: Wellbore:	Bell Lake Unit Nv Bell Lake Unit Nv Bell Lake Unit Nv Bell Lake Unit Nv 100110 Pall Lake	orth 434H orth 434H orth 434H orth 434H 31Ioit North 434H					TVD Reference: MD Reference: North Reference Survey Calculati	: on Method:	WELL @ 3454.2us WELL @ 3454.2us Grid Minimum Curvatur	sft (Original Well Elev) sft (Original Well Elev) e e	
Interpretation Interp								2010000			5	
No Advantable No	Planned Survey											
1000 100 1000000000000000000000000000000000000	(tjsii)	Inc (•)	Azi (azimut /°)	(h)	TVD (#sti)	TVDSS	S/N	E/W	Easting (usft)	Northing (usft)	V. Sec	DLeg (°/100.15ft)
600 65016 5,773 0.0 5,173 5,173 6,4003 2,440 600 8,641 5,1734 0.0 8,64,039 2,440 2,47 600 9,600 8,511 5,1734 0.0 365,4039 2,40 610 900 8,613 5,1774 0.0 366,4039 2,40 610 900 8,613 5,1774 0.0 366,4039 2,40 610 900 8,613 5,1774 0.0 366,4039 2,40 610 900 8,610 5,238 0.0 367,5 466,4039 2,40 610 900 8,705 5,238 0.0 367,5 466,4039 2,40 610 900 8,705 6,7039 6,74039 2,54 610 900 8,705 6,74039 2,54 2,54 610 900 8,705 6,74039 2,54 2,54 610 900 917,46,15 6,7403	8.500		2	00.06	8.482.1	5.027.9			801.203.34	485.400.59		
600 6361 5173 61.73 65.40.53 61.73 65.40.53 61.73 65.40.53 61.73 61.73 65.40.53 61.73 61.73 65.40.53 61.73 61.73 61.73 61.73 61.73 61.73 61.73 61.73 61.73 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40.53 65.40	8,550	0.0		90.00	8,531.8	5,077.6	0.0	350.2	801,208.57	485,400.59	24.40	0.0
600 600 662.0 5167.3 0.0 389.7 817.30 456.40.50 256 600 801.3 517.1 0.0 361.7 517.7 0.0 365.0 354.00.50 256.0 600 9000 8681.0 5.246.8 0.0 367.3 864.00.50 256.9 600 9000 8681.0 5.246.8 0.0 371.1 601.225.72 456.400.50 256.9 600 9000 8730.7 5.246.8 0.0 371.1 601.226.47 456.400.50 256.9 600 9000 877.9 5.246.9 0.0 371.4 456.400.50 256.9 600 9000 877.9 5.246.9 901.226.72 456.400.59 256.9 600 9000 877.9 6.775.9 801.224.57 456.400.59 256.9 600 9000 877.9 670.729 456.400.59 256.9 600 9000 877.9 670.729.9 456.400.59 257.9	8,600	0.0		90.00	8,581.6	5,127.4	0.0	355.4	801,213.79	485,400.59	24.76	0.0
600 6601 66113 5171 0.0 8661 5171 0.0 86640 5171 0.0 5171 5171 5171 5171 5171 5171 5174 51740 5174 51740 51740 5174 51740 <t< td=""><td>8,640</td><td>7.0</td><td></td><td>90.00</td><td>8,622.0</td><td>5,167.8</td><td>0.0</td><td>359.7</td><td>801,218.05</td><td>485,400.59</td><td>25.06</td><td>0.0</td></t<>	8,640	7.0		90.00	8,622.0	5,167.8	0.0	359.7	801,218.05	485,400.59	25.06	0.0
60 900 6513 5171 00 3651 5171 01 365 6113 517 365 6113 517 365 601219.02 465,400.59 2513 600 900 8681.0 5.268 0.0 373 801257.2 465,400.59 2549 610 900 8780.5 5.376 0.0 371.1 801254.70 465,400.59 2559 610 900 8780.5 5.3760 0.0 371.1 801254.70 465,400.59 2563 610 900 8780.5 5.3760 0.0 371.1 801254.70 465,400.59 2563 610 900 8780.5 5.3760 0.0 371.1 81726.16 2563 610 900 8780.5 5.4754 0.0 371.51 465,400.59 2563 610 900 8780.5 5.4754 0.0 3126.16 456,400.59 2544 610 900 9000 90021 <	Bone Spr	ing										
600 86610 5.226.8 0.0 866.9 524.05 5.24.6 5.24.7 485.405.9 5.55.6 5.24.6	8,650	0.0		90.00	8,631.3	5,177.1	0.0	360.6	801,219.02	485,400.59	25.12	0.0
610 9000 86950 5,240 0.0 37.3 801.25.72 485.4056 256 610 9000 8,7307 5,765 0.0 37.1 801.2247 485.4056 256 610 9000 8,7307 5,765 0.0 37.3 801.2347 485.4056 256 610 9000 8,7905 5,776 0.0 37.3 801.2447 485.4059 256 610 9000 8,979 5,774 0.0 36.7 6.6 25.26 26.7 2	8,700			90.00	8,681.0	5,226.8	0.0	365.9	801,224.25	485,400.59	25.49	0.0
60 900 8,730.7 5,276.5 0.0 371.1 601,224.7 45,400.59 25.85 600 9000 8,730.5 5,326.3 0.0 376.3 601,234.70 455,400.59 25.85 600 9000 8,890.2 5,376.0 0.0 381.5 801,234.70 455,400.59 26.55 600 9000 8,879.9 5,425.7 0.0 381.5 801,236.51 455,400.59 26.56 600 9000 8,794 5,574.9 0.0 382.09 801,256.61 455,400.59 26.73 600 9000 8,794 5,574.9 0.0 397.2 801,256.67 455,400.59 26.73 600 9000 9,076.8 5,774.9 0.0 397.2 801,256.67 455,400.59 26.76 600 9000 9,076.8 5,744 0.0 301,266.16 455,400.59 28.46 600 9000 9,718.3 861,205.16 455,400.59 28.46 600	8,714	1.1		90.00	8,695.0	5,240.8	0.0	367.3	801,225.72	485,400.59	25.59	0.0
600 90.00 87307 5.765 0.0 3711 801,29,47 465,40059 2556 600 90.00 8.7805 5.3763 0.0 3763 801,24,77 465,40059 2556 600 90.00 8.8795 5.3763 0.0 3815 81747 465,40059 2563 610 90.00 8.8795 5.4754 0.0 3805 801,24515 485,40059 2659 610 90.00 8.8795 5.4754 0.0 3920 801,24515 485,40059 2654 610 90.00 8.07281 5.774 0.0 301,26156 485,40059 2731 610 90.00 9.1783 5.7241 0.0 401,203 485,40059 2816 610 90.00 9.1783 5.7241 0.0 401,203 2816 610 90.00 9.1783 5.7241 801,20169 28140 2814 610 90.00 9.1783 5.7724 816,40059 </td <td>Avalon</td> <td></td>	Avalon											
600 9000 8,780.5 5,326.3 0.0 376.3 801.234.70 485,400.56 26.22 600 90.00 8,8002 5,376.0 0.0 381.5 801.239.33 485,400.56 26.55 600 90.00 8,879 5,475.4 0.0 381.5 801.260.5 26.56 600 90.00 8,979.4 5,575.2 0.0 382.0 801.260.5 265.4 600 90.00 8,979.4 5,574.9 0.0 392.0 801.266.56 455,400.59 27.67 600 90.00 9,078.4 5,574.9 0.0 392.2 801.266.56 265.4 610 90.00 9,078.4 5,574.9 0.0 397.2 465,400.59 27.67 610 90.00 9,078.4 5,574.9 0.0 407.7 801.266.56 455,400.59 28.45 610 90.00 9,078.4 5,574.4 0.0 901.266.56 455,400.59 28.40 610 90.00	8,750	0.0		90.00	8,730.7	5,276.5	0.0	371.1	801,229.47	485,400.59	25.85	0.0
600 9000 88302 5,3760 00 3815 801,23633 485,40.59 2568 600 9000 8,799 5,4754 00 3668 801,245.15 485,40.59 2634 600 9000 8,794 5,5474 00 3920 801,255.61 485,40.59 2634 600 9000 9,793 5,5474 0.0 3972 801,255.61 485,40.59 2731 600 9000 9,783 5,544 0.0 3972 801,255.61 485,40.59 2731 600 9000 9,783 5,544 0.0 4077 801,256.61 485,40.59 2731 600 9000 9,783 5,744 0.0 4077 485,40.59 2844 610 900 9,713 5,744 0.0 485,40.59 2844 610 900 9,718 5,744 90 21764 2844 610 900 9,728 90,29 485,40.59	8,800	0.0		90.00	8,780.5	5,326.3	0.0	376.3	801,234.70	485,400.59	26.22	0.0
600 9000 8793 54257 00 386.8 817.46.15 485.400.59 2634 600 9000 8.979.4 5,552.2 0.0 392.0 801.256.61 485.400.59 27.31 600 9000 8.979.4 5,574.9 0.0 397.2 801.256.61 485.400.59 27.31 600 9000 9,078 5,574.9 0.0 407.7 801.256.61 485.400.59 28.40 600 9000 9,078 5,574.9 0.0 407.7 801.266.05 485.400.59 28.40 600 9000 9,178.3 5,724.1 0.0 412.9 801.27129 485.400.59 28.40 600 9000 9,178.3 5,724.1 0.0 412.9 201.266.05 485.400.59 28.40 600 9000 9,178.3 6,012.66.06 485.400.59 28.40 29.13 600 9000 9,177 5,823.5 0.0 42.23 801.281.74 485.400.59 29.43	8,850	0.0		90.00	8,830.2	5,376.0	0.0	381.5	801,239.93	485,400.59	26.58	0.0
600 9000 8,926 5,4754 0.0 392.0 801,256.3 455,40.59 27.31 600 9000 8,979.4 5,525.2 0.0 397.2 801,256.51 456,40.59 27.67 6.00 9000 9,029.1 5,574.9 0.0 407.7 801,266.61 456,40.59 28.04 6.00 9000 9,178.8 5,574.9 0.0 407.7 801,266.65 456,40.59 28.04 6.00 9000 9,178.3 5,674.3 0.0 407.7 801,266.65 456,40.59 28.74 6.00 9000 9,178.3 5,724.1 0.0 417.7 801,267.61 456,40.59 28.75 6.00 9000 9,178.3 5,724.1 0.0 417.7 801,277.29 456,40.59 29.13 6.00 9000 9,027.7 5,823.5 0.0 423.8 801,277.29 456,40.59 29.13 6.00 9000 9000 9,274 5,823.5 0.0 423.8	8,900	0.0		90.00	8,879.9	5,425.7	0.0	386.8	801,245.15	485,400.59	26.94	0.0
600 90.00 8,97.4 5,55.2 0.0 397.2 801,256.61 456,40.69 27.67 6.00 90.00 9,029.1 5,574.9 0.0 40.7 801,266.05 456,400.59 28.04 6.00 90.00 9,078.8 5,674.3 0.0 407.7 801,266.05 456,400.59 28.04 6.00 90.00 9,128.5 5,574.3 0.0 412.9 801,271.29 456,400.59 28.40 6.00 90.00 9,178.3 5,724.1 0.0 412.9 801,271.29 456,400.59 28.40 6.00 90.00 9,178.3 5,724.1 0.0 413.1 801,276.51 456,400.59 28.46 6.00 90.00 9,277.7 5,823.5 0.0 423.8 801,276.51 456,400.59 29.48 6.00 90.00 9,277.7 5,823.5 0.0 438.400.59 29.48 6.00 90.00 9,377.2 5,873.2 0.0 443.5 456,400.59 30.25 <	8,950	0.0		90.00	8,929.6	5,475.4	0.0	392.0	801,250.38	485,400.59	27.31	0.0
600 9000 9,0201 5,574,3 0.0 402,4 801,260.35 485,400.59 28.04 600 90.00 9,078.8 5,624,6 0.0 407.7 801,266.06 485,400.59 28.40 6.00 90.00 9,178.3 5,574.3 0.0 412.9 801,271.29 485,400.59 28.40 6.00 90.00 9,178.3 5,724.1 0.0 418.1 801,271.29 485,400.59 28.40 6.00 90.00 9,178.3 5,724.1 0.0 418.1 801,271.29 485,400.59 28.40 6.00 90.00 9,277.7 5,823.5 0.0 418.1 801,205.14 485,400.59 29.49 6.00 90.00 9,274.7 5,823.5 0.0 423.6 801,205.14 485,400.59 20.49 6.00 90.00 9,274.7 5,873.2 0.0 431.8 801,207.42 485,400.59 30.56 6.00 90.00 9,377.2 5,873.2 0.0 431.4	9,000	0.0		90.00	8,979.4	5,525.2	0.0	397.2	801,255.61	485,400.59	27.67	0.0
600 90.00 9078.8 5,624.6 0.0 407.7 801,266.06 485,400.59 28,40 600 90.00 9,128.5 5,674.3 0.0 412.9 801,271.29 485,400.59 28,76 600 90.00 9,178.3 5,724.1 0.0 418.1 801,276.51 485,400.59 28,76 600 90.00 9,277.7 5,823.5 0.0 423.3 801,281.74 485,400.59 29,49 600 90.00 9,277.7 5,823.5 0.0 423.3 801,281.74 485,400.59 29,49 600 90.00 9,277.7 5,823.5 0.0 433.8 801,297.42 485,400.59 29,49 600 90.00 9,377.2 5,873.2 0.0 433.8 801,297.42 485,400.59 30.58 600 90.00 9,377.2 5,873.2 0.0 444.3 801,307.81 485,400.59 30.58 600 90.00 9,476.6 6,023.0 0.0 444.3 <t< td=""><td>9,050</td><td>0.0</td><td></td><td>90.00</td><td>9,029.1</td><td>5,574.9</td><td>0.0</td><td>402.4</td><td>801,260.83</td><td>485,400.59</td><td>28.04</td><td>0.0</td></t<>	9,050	0.0		90.00	9,029.1	5,574.9	0.0	402.4	801,260.83	485,400.59	28.04	0.0
6.009.009.128.55.674.30.0412.9801.271.29485,400.5928.766.0090.009.178.35.724.10.0418.1801.276.51485,400.5928.136.0090.009.277.75.773.80.0423.3801.276.51485,400.5929.496.0090.009.277.75.823.50.0423.3801.276.9485,400.5929.496.0090.009.277.75.823.50.0423.3801.276.929.6629.466.0090.009.377.25.823.50.0433.8801.277.9485,400.5929.666.0090.009.377.25.923.00.0443.3801.207.19485,400.5920.666.0090.009.426.95.972.70.0444.3801.207.42485,400.5930.566.0090.009.476.66.022.40.0444.3801.307.87485,400.5931.676.0090.009.476.66.022.40.0449.5801.307.87485,400.5931.676.0090.009.525.06.070.80.0449.5801.307.87485,400.5931.676.0090.009.525.06.070.80.0449.5801.317.95485,400.5931.676.0090.009.526.06.070.890.307.87485,400.5931.676.0090.009.526.06.070.890.317.25485,400.5931.676.0090.009.526.06.070.	9,100	0.0		90.00	9,078.8	5,624.6	0.0	407.7	801,266.06	485,400.59	28.40	0.0
60090.009.178.35.724.10.0418.1801.276.51485,400.5929136.0090.009,228.05,773.80.0423.3801,281.74485,400.5929496.0090.009,277.75,823.50.0423.8801,281.96485,400.5929496.0090.009,377.25,873.20.0433.8801,291.99485,400.5929.866.0090.009,377.25,873.20.0439.0801,297.42485,400.5930.256.0090.009,476.65,972.70.0444.3801,307.87485,400.5930.586.0090.009,476.66,022.40.0444.3801,307.87485,400.5930.586.0090.009,476.66,072.40.0444.5801,307.87485,400.5930.586.0090.009,555.06,070.80.0444.5801,307.87485,400.5931.316.0090.009,555.06,070.80.0444.5801,307.87485,400.5931.316.0090.009,555.06,070.80.0454.6801,307.87485,400.5931.316.0090.009,555.06,070.80.0454.6801,307.87485,400.5931.316.0090.009,555.06,070.80.0454.6801,307.87485,400.5931.316.0090.009,556.06,072.80.0449.5801,307.87485,400.5931.67 <td>9,150</td> <td>0.0</td> <td></td> <td>90.00</td> <td>9,128.5</td> <td>5,674.3</td> <td>0.0</td> <td>412.9</td> <td>801,271.29</td> <td>485,400.59</td> <td>28.76</td> <td>0.0</td>	9,150	0.0		90.00	9,128.5	5,674.3	0.0	412.9	801,271.29	485,400.59	28.76	0.0
6.00 9.28.0 5.77.3.8 0.0 423.3 801,281.74 485,400.59 29.49 6.00 9.277.7 5,823.5 0.0 428.6 801,281.74 485,400.59 29.49 6.00 90.00 9,277.4 5,873.5 0.0 428.6 801,281.74 485,400.59 29.49 6.00 90.00 9,377.2 5,873.2 0.0 433.8 801,297.42 485,400.59 30.22 6.00 90.00 9,476.6 5,972.7 0.0 449.5 801,307.64 485,400.59 30.58 6.00 90.00 9,476.6 6,022.4 0.0 449.5 801,307.87 485,400.59 31.31 6.00 90.00 9,476.6 6,070.8 0.0 449.5 801,307.87 485,400.59 31.31 6.00 90.00 9,476.6 6,070.8 0.1307.87 485,400.59 31.31 6.00 90.00 9,476.6 6,070.8 0.1307.87 485,400.59 31.31 6.00 90.0	9,200	0.0		90.00	9,178.3	5,724.1	0.0	418.1	801,276.51	485,400.59	29.13	0.0
6.009.277.75.823.50.0428.6801,286.96485,400.5929.866.009.0009,377.25.873.20.0433.8801,297.42485,400.5930.226.0090.009,377.25.923.00.0439.0801,297.42485,400.5930.586.0090.009,476.66,922.40.0444.3801,302.64485,400.5930.566.0090.009,476.66,022.40.0449.5801,307.87485,400.5930.956.0090.009,555.06,070.80.0449.5801,307.87485,400.5931.316.0090.009,525.06,070.80.0454.6801,307.87485,400.5931.676.0090.009,525.06,070.80.0454.6801,317.95485,400.5931.676.0090.009,525.06,070.80.0454.6801,317.95485,400.5931.676.0090.009,525.06,070.80.0454.6801,317.95485,400.5931.67	9,250	0.0		90.00	9,228.0	5,773.8	0.0	423.3	801,281.74	485,400.59	29.49	0.0
6.00 9.377.4 5.873.2 0.0 433.8 801,292.19 485,400.59 30.22 6.00 9.377.2 5.923.0 0.0 439.0 801,297.42 485,400.59 30.28 6.00 90.00 9,426.9 5,972.7 0.0 439.0 801,297.42 485,400.59 30.58 6.00 90.00 9,476.6 6,022.4 0.0 444.3 801,307.67 485,400.59 30.95 6.00 90.00 9,476.6 6,022.4 0.0 449.5 801,307.87 485,400.59 31.31 6.00 90.00 9,525.0 0.0 0.0 454.6 801,312.95 485,400.59 31.67 6.00 90.00 9,526.4 6.070.8 0.0 454.6 801,312.95 485,400.59 31.67	9,300	0.0		90.00	9,277.7	5,823.5	0.0	428.6	801,286.96	485,400.59	29.86	0.0
6.00 9.377.2 5,923.0 0.0 439.0 801,297.42 485,400.59 30.58 6.00 90.00 9,426.9 5,972.7 0.0 444.3 801,302.64 485,400.59 30.58 6.00 90.00 9,476.6 6,022.4 0.0 449.5 801,302.64 485,400.59 30.95 6.00 90.00 9,525.0 6,070.8 0.0 449.5 801,307.87 485,400.59 31.31 6.00 90.00 9,525.0 6,070.8 0.0 454.6 801,312.95 485,400.59 31.67 6.00 90.00 9,526.4 6,072.8 0.0 454.6 801,312.95 485,400.59 31.67	9,350	0.0		90.00	9,327.4	5,873.2	0.0	433.8	801,292.19	485,400.59	30.22	0.0
6.00 9,426.9 5,972.7 0.0 444.3 801,302.64 485,400.59 30.95 6.00 90.00 9,476.6 6,022.4 0.0 449.5 801,307.87 485,400.59 31.31 6.00 90.00 9,525.0 6,070.8 0.0 449.5 801,312.95 485,400.59 31.67 6.00 90.00 9,525.0 6,070.8 0.0 454.6 801,312.95 485,400.59 31.67 6.00 90.00 9,526.4 6,072.2 0.0 454.6 801,312.95 485,400.59 31.67	9,400	0.0		90.00	9,377.2	5,923.0	0.0	439.0	801,297.42	485,400.59	30.58	0.0
6.00 90.00 9,476.6 6.022.4 0.0 449.5 801,307.87 485,400.59 31.31 6.00 90.00 9,525.0 6,070.8 0.0 454.6 801,312.95 485,400.59 31.67 6.00 90.00 9,526.4 6,070.8 0.0 454.6 801,312.95 485,400.59 31.67 6.00 90.00 9,526.4 6,072.2 0.0 454.7 801,313.10 485,400.59 31.68	9,450	0.0		90.00	9,426.9	5,972.7	0.0	444.3	801,302.64	485,400.59	30.95	0.0
6.00 90.00 9,525.0 6,070.8 0.0 454.6 801,312.95 485,400.59 31.67 6.00 90.00 9,526.4 6,072.2 0.0 454.7 801,313.10 485,400.59 31.68	9,500	0.0		90.00	9,476.6	6,022.4	0.0	449.5	801,307.87	485,400.59	31.31	0.0
6.00 90.00 9,526.4 6,072.2 0.0 454.7 801,313.10 485,400.59 31.68	9,548	3.6		90.00	9,525.0	6,070.8	0.0	454.6	801,312.95	485,400.59	31.67	0.0
6.00 90.00 9,526.4 6,072.2 0.0 454.7 801,313.10 485,400.59 31.68	1st Bone	Spring Sand										
	9,550	0.0		90.00	9,526.4	6,072.2	0.0	454.7	801,313.10	485,400.59	31.68	0.0

COMPASS 5000.1 Build 56

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KAISBR-PRANCIS OIL COMPANY

Image: Second statement Antaination in the second statement Antainatin the second statement Antainatin t	Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	th 434H th 434H th 434H th 434H th 434H Unit North 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Reference: : on Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original V WELL @ 3454.2usft (Original V Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	~~
In AdvisionColumColumnColumn <t< th=""><th>Planned Survey</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Planned Survey										
000 95761 61713 01 65761 61713 01 654003 2204 000 92525 62713 0.0 465 60133.55 465.40039 231 600 97253 6.2713 0.0 475 6.2713 0.0 231 600 97253 6.2713 0.0 466 003 313 610 900 9753 6.3705 0.0 466 013.3400 351 610 900 9753 6.3705 0.0 466 465.4003 313 610 900 9734 6.3705 0.0 466 465.4003 316 610 917 6.470 0.0 466 466.4003 316 610 917 6.470 0.0 466 465.4003 316 610 917 6.470 0.0 466 466.4003 316 610 910 0.0 9101 911 916 916	MD (11su)	(°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E.W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
600 9000 97250 6,1716 0.0 4652 6013255 465,40039 2211 600 97750 6,2713 0.0 4754 6,2713 0.0 2075 600 97750 6,2713 0.0 4754 6,2713 0.0 201 600 9070 97750 6,2713 0.0 466 013400 9234 600 9000 9744 6,3705 0.0 466 013446 466,40039 3316 600 9774 6,3705 0.0 466 013446 466,40039 3316 600 9774 6,4700 0.0 461 80134013 466,40039 3316 610 9774 6,4700 0.0 461 80134013 466,40039 3316 610 91050 910410 0.0 466 013464 466,40039 3316 610 91050 65904 0.0 0.0 9164 9164,40039 3516 </td <td>9,600</td> <td></td> <td></td> <td></td> <td>6,121.9</td> <td>0.0</td> <td>459.9</td> <td>801,318.32</td> <td>485,400.59</td> <td>32.04</td> <td>0.00</td>	9,600				6,121.9	0.0	459.9	801,318.32	485,400.59	32.04	0.00
000 9775 6.213 0.0 4704 801.387.8 65.4058 2.77 000 9.755 6.271 0.0 475 6.271 3.13 3.13 010 9.075 6.271 0.0 475 6.703 455.4058 3.35 010 9.075 6.271 0.0 496 801.3649 455.4059 3.35 010 900 9.874 6.470 0.0 491 801.3449 455.4059 3.36 010 900 9.874 6.5197 0.0 495 801.3491 455.4059 3.36 010 900 9.874 6.5197 0.0 495 456.4059 3.45 010 9.01 9.71 6.70 0.0 495.4059 3.45 010 900 10723 6581 0.0 456.4059 3.53 010 900 10723 6581 0.0 456.4059 3.53 010 900 100	9,65(6,171.6	0.0	465.2	801,323.55	485,400.59	32.41	0.00
600 972.3 6.21.1 0.0 475.6 801.34.06 86.406.8 33.1 600 9.475.0 6.32.08 0.0 463.6 801.34.16 460.69 33.6 600 9.477.6 6.370.5 0.0 468.1 801.36.40 86.400.59 33.6 600 9.474.7 6.470.0 0.0 468.1 86.400.59 34.56 600 9.924.2 6.470.0 0.0 466.1 86.400.59 34.56 600 9.924.2 6.470.0 0.0 466.400.59 34.56 600 9.924.2 6.508.4 0.0 901.366.19 485.400.59 34.56 600 9.0126.1 0.0 6.508.4 0.0 901.366.19 34.56 600 9.010 10.073 6.619.1 0.0 901.366.16 486.400.59 35.6 600 9.01 9.01.366.16 9.01.366.16 486.400.59 35.6 600 9.01 9.01.366.16 0.01.366.16 486.400.59 <td>9,70(</td> <td></td> <td></td> <td>9,675.5</td> <td>6,221.3</td> <td>0.0</td> <td>470.4</td> <td>801,328.78</td> <td>485,400.59</td> <td>32.77</td> <td>0.00</td>	9,70(9,675.5	6,221.3	0.0	470.4	801,328.78	485,400.59	32.77	0.00
600 97750 6.3208 0.0 486.40059 3350 600 984.7 6.3705 0.0 486.1 801.344.6 486.40059 3356 600 9000 974.4 6.470 0.0 486.1 801.344.6 486.40059 345 600 9000 974.4 6.470 0.0 461.3 801.346.13 486.40059 345 600 9000 972.42 6.407 0.0 461.40059 345 600 9000 10.026 6.560.4 0.0 601.365.1 465.40059 35.18 600 9000 10.0216 6.560.4 0.0 601.365.1 465.40059 35.18 600 9000 10.0216 6.560.4 0.0 601.365.1 465.40059 35.18 600 9000 10.0212 6.560.4 0.0 601.365.1 465.40059 35.14 600 9000 10.172.8 6.560.4 0.0 901.365.1 465.40059 35.14 <td>9,75(</td> <td></td> <td></td> <td>9,725.3</td> <td>6,271.1</td> <td>0.0</td> <td>475.6</td> <td>801,334.00</td> <td>485,400.59</td> <td>33.13</td> <td>0.00</td>	9,75(9,725.3	6,271.1	0.0	475.6	801,334.00	485,400.59	33.13	0.00
600 900 98.47 6.3705 00 4661 801.344.60 465.400.59 33.60 600 9874.4 6.4202 0.0 4963 66.4003 34.30 600 9874.4 6.4702 0.0 4965 601.340.68 465.4003 34.3 600 9973.9 65.97 0.0 501.7 801.340.68 465.4003 34.3 600 9000 10073.3 6.597 0.0 501.7 86.40039 34.5 600 9000 10073.3 6.591 0.0 501.7 86.40039 34.5 600 9000 10073.3 6.591 0.0 501.7 86.40039 35.2 600 9000 10073.3 6.591 0.0 501.7 86.40039 35.2 600 9000 10172.1 6.693 0.0 501.3 36.5 36.5 600 9000 10172.1 6.693 0.0 52.1 801.305.6 36.7	9,80(9,775.0	6,320.8	0.0	480.8	801,339.23	485,400.59	33.50	0.00
600 98744 64202 00 4973 6430.05 48540.05 48540.05 48540.05 443 600 9000 9973 65497 0 465 801.349.65 44540.56 345 600 9000 9973 65497 0 901.7 485.400.59 345 600 9000 100236 65694 0 901.305 485.400.59 345 600 9000 100733 65694 0 901.305581 485.400.59 356 600 9000 101724 65694 0 512 801.305637 485.400.59 356 600 9000 101724 65694 0 0 367 366 600 9000 101724 65694 0 361.366 364 600 9000 101724 65684 0 367 366 600 9000 101724 65684 0 0 367 367	9,85(9,824.7	6,370.5	0.0	486.1	801,344.46	485,400.59	33.86	0.00
600 9000 922.2 6.47.0 0.0 485.4058 455.4058 34.56 6.00 9.073 6.518.7 0.0 50.7 801.365.40 455.4058 34.56 6.00 9.073 6.518.7 0.0 50.7 801.365.40 455.4058 34.56 6.00 9000 10.055 6.564 0.0 507 801.365.40 455.4058 35.18 6.00 9000 10.0733 6.6191 0.0 507 801.365.40 35.68 6.00 9000 10.1728 6.564 0.0 517.4 801.365.4058 35.68 6.00 9000 10.1728 6.5643 0.0 517.4 801.375.61 455.4059 35.68 6.00 9000 10.1728 6.7186 0.0 52.77 801.375.61 455.4059 35.68 6.00 9000 10.2226 6.7186 0.0 52.77 801.386.77 455.4059 37.14 6.00 9000 10.2222	9)06'6			9,874.4	6,420.2	0.0	491.3	801,349.68	485,400.59	34.23	0.00
6.00 9.973.9 6.519.7 0.0 901.7 801.360.13 485.400.59 34.56 6.00 9000 10.005.0 6.569.8 0.0 505.0 801.363.40 485.400.59 35.18 6.00 9000 10.023.6 6.569.8 0.0 507.0 801.365.30 485.400.59 35.13 6.00 9000 10.172.13 6.691.9 0.0 517.2 801.375.59 485.400.59 36.13 6.00 9000 10.172.8 6.691.9 0.0 517.2 801.375.59 485.400.59 36.13 6.00 9000 10.172.8 6.783 0.0 527.2 801.375.59 485.400.59 36.13 6.00 9000 10.272.2 6.816.0 0.0 527.7 801.301.49 485.400.59 36.17 6.00 9000 10.272.2 6.816.0 0.0 527.7 801.301.49 485.400.59 37.17 6.00 9000 10.272.2 6.816.0 0.0 527.7 801.301.40 </td <td>9,95(</td> <td></td> <td></td> <td>9,924.2</td> <td>6,470.0</td> <td>0.0</td> <td>496.5</td> <td>801,354.91</td> <td>485,400.59</td> <td>34.59</td> <td>0.00</td>	9,95(9,924.2	6,470.0	0.0	496.5	801,354.91	485,400.59	34.59	0.00
6.00 10.06.0 6.56.0 0.0 50.0 801.363.40 465.40.59 35.16 6.00 10.023.6 6.69.1 0.0 50.7 801.365.36 465.40.59 35.32 6.00 10.073.3 6.619.1 0.0 507.2 801.365.36 465.40.59 35.63 6.00 90.00 10.073.3 6.619.1 0.0 517.4 801.375.61 465.40.59 35.63 6.00 90.00 10.1728 6.619.1 0.0 517.4 801.375.61 465.40.59 35.66 6.00 90.00 10.1728 6.718.6 0.0 57.7 801.367.61 36.71 6.00 90.00 10.222.5 6.818.0 0.0 52.7 801.367.61 465.40.59 35.66 6.00 90.00 10.222.5 6.818.0 0.0 52.7 801.366.77 465.40.59 35.71 6.00 90.00 10.222.5 6.818.0 10.366.77 465.40.59 37.71 6.00 90.00	10,000			9,973.9	6,519.7	0.0	501.7	801,360.13	485,400.59	34.95	0.00
6.00 90.00 10.023.6 6.569.4 0.0 507.0 801.365.36 485.40.59 35.32 6.00 90.00 10.723.3 6.619.1 0.0 51.22 801.370.59 485.40.59 35.68 6.00 90.00 10.723.1 6.679.3 0.0 517.2 801.370.59 485.400.59 35.68 6.00 90.00 10.712.8 6.718.6 0.0 52.77 801.371.61 485.400.59 36.71 6.00 90.00 10.712.8 6.778.5 801.381.74 485.400.59 36.71 6.00 90.00 10.222.5 6.818.0 0.0 52.73 801.391.74 485.400.59 36.71 6.00 90.00 10.372.20 6.818.0 0.0 52.73 801.391.74 485.400.59 37.75 6.00 90.00 10.372.20 6.818.0 140.195 485.400.59 37.87 6.00 90.00 10.277.1 7.916.9 801.407.17 485.400.59 37.87 6.00	10,03			10,005.0	6,550.8	0.0	505.0	801,363.40	485,400.59	35.18	0.00
6 00 0 002 6 6,569.4 0 0 507.0 801,365.36 485,400.59 35.32 6 00 9 0,00 10,73.3 6,619.1 0.0 512.2 801,375.81 485,400.59 35.68 6 00 9 0,00 10,172.8 6,619.1 0.0 517.4 801,375.81 485,400.59 35.68 6 00 9 0,00 10,172.8 6,718.6 0.0 522.7 801,310.4 485,400.59 36.05 6 00 90.00 10,272.5 6,818.0 0.0 527.9 801,310.4 485,400.59 36.17 6 00 90.00 10,272.2 6,818.0 0.0 523.1 801,396.77 485,400.59 37.14 6 00 90.00 10,272.1 6,917.5 0.0 53.3 801,396.72 485,400.59 37.14 6 00 90.00 10,471.1 7,16.9 10.741.16 485,400.59 37.15 6 00 90.00 10,471.1 7,016.9 10.485,400.59 37.16 6 00 <td< td=""><td>2nd Bon</td><td>e Spring Sand</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	2nd Bon	e Spring Sand									
6.00 10.073.3 6.619.1 0.0 51.2 801,37.53 45,40.59 35.68 6.00 10,123.1 6.688.9 0.0 517.4 801,37.581 45,40.59 36.67 6.00 10,172.8 6.718.6 0.0 52.7 801,37.10 45,40.59 36.71 6.00 90.00 10,172.8 6.783.3 0.0 52.77 801,381.04 45,40.59 36.71 6.00 90.00 10,272.2 6.818.0 0.0 53.31 801,391.49 45,40.59 36.71 6.00 90.00 10,271.7 6.917.5 0.0 53.31 801,397.72 456,40.59 36.71 6.00 90.00 10,371.7 6.917.5 0.0 53.31 801,397.72 456,40.59 37.74 6.00 90.00 10,371.7 6.917.5 0.0 53.31 801,307.71 456,400.59 37.74 6.00 90.00 10,471.4 6.95.400.59 37.74 37.75 6.00 90.00	10,050			10,023.6	6,569.4	0.0	507.0	801,365.36	485,400.59	35.32	0.00
6.00 90.00 10,123.1 6.668.9 0.0 517.4 801,375.81 455,40.59 36.05 6.00 90.00 10,172.8 6.716.6 0.0 52.77 801,381.04 456,40.59 36.41 6.00 90.00 10,172.8 6.716.6 0.0 52.77 801,381.04 456,400.59 36.41 6.00 90.00 10,272.2 6,818.0 0.0 53.31 801,386.27 456,400.59 36.41 6.00 90.00 10,272.2 6,818.0 0.0 53.31 801,396.72 456,400.59 36.41 6.00 90.00 10,371.7 6,917.5 0.0 53.83 801,401.17 456,400.59 37.14 6.00 90.00 10,421.4 6,967.2 0.0 54.83 801,401.17 456,400.59 37.87 6.00 90.00 10,471.1 7,016.9 0.0 54.83 801,401.17 456,400.59 37.87 6.00 90.00 10,471.16 6,907.59 801,401.16	10,100				6,619.1	0.0	512.2	801,370.59	485,400.59	35.68	0.00
6.00 90.00 10,1728 6,7186 0.0 52.7 801,381.04 485,400.59 36.41 6.00 90.00 10,222.5 6,768.3 0.0 527.9 801,386.27 485,400.59 36.41 6.00 90.00 10,272.2 6,818.0 0.0 527.9 801,391.49 485,400.59 37.41 6.00 90.00 10,272.2 6,818.0 0.0 533.1 801,391.49 485,400.59 37.50 6.00 90.00 10,371.7 6,917.5 0.0 54.36 801,407.17 485,400.59 37.60 6.00 90.00 10,471.1 7,016.9 0.0 54.40 801,407.17 485,400.59 37.87 6.00 90.00 10,471.1 7,016.9 0.0 54.40 801,407.17 485,400.59 37.87 6.00 90.00 10,471.1 7,016.9 0.0 54.40 38.59 37.87 6.00 90.00 10,471.1 7,016.9 10.414.16.1 485,400.59 38	10,150			10,123.1	6,668.9	0.0	517.4	801,375.81	485,400.59	36.05	0.00
6.00 90.00 10,221.5 6,768.3 0.0 527.9 801,386.27 485,400.59 36.77 6.00 90.00 10,272.2 6,818.0 0.0 533.1 801,391.49 485,400.59 37.14 6.00 90.00 10,371.7 6,917.5 0.0 533.1 801,396.72 485,400.59 37.50 6.00 90.00 10,371.7 6,917.5 0.0 543.6 801,401.45 485,400.59 37.50 6.00 90.00 10,471.1 7,016.9 0.0 543.6 801,401.45 485,400.59 37.50 6.00 90.00 10,471.1 7,016.9 0.0 543.6 801,401.45 485,400.59 38.23 6.00 90.00 10,471.1 7,016.9 0.0 554.0 801,417.63 485,400.59 38.26 6.00 90.00 10,471.1 7,016.9 0.0 554.0 801,417.63 485,400.59 38.59 6.00 90.00 10,520.9 7,066.7 0.0 55	10,200			10,172.8	6,718.6	0.0	522.7	801,381.04	485,400.59	36.41	0.00
6.0090.0010,7726,818.00.0533.1801,391.49485,400.5937.146.0090.0010,371.76,917.50.0538.3801,366.72485,400.5937.506.0090.0010,371.76,917.50.0543.6801,401.95485,400.5937.876.0090.0010,471.17,016.90.0543.6801,407.17485,400.5937.876.0090.0010,471.17,016.90.0543.6801,407.17485,400.5938.236.0090.0010,570.97,066.70.0554.0801,417.63485,400.5938.596.0090.0010,520.97,066.70.0559.2801,417.63485,400.5938.596.0090.0010,520.97,070.80.0559.7801,418.06485,400.5938.966.0090.0010,520.97,066.70.0559.7801,418.06485,400.5938.966.0090.0010,520.97,066.70.0559.7801,418.0638.966.0090.0010,520.67,166.10.0559.7801,418.0638.906.0090.0010,520.67,166.10.0559.7801,423.0638.966.0090.0010,520.37,166.10.0569.7801,423.0639.306.0090.0010,520.37,166.10.0569.7801,423.0639.306.0090.0010,520.37,166.10.0<	10,25(10,222.5	6,768.3	0.0	527.9	801,386.27	485,400.59	36.77	0.00
6.0090.0010,322.06,867.80.0538.3801,396.72485,400.5937.506.0090.0010,371.76,917.50.0543.6801,401.17485,400.5937.876.0090.0010,421.46,967.20.0548.8801,407.17485,400.5938.236.0090.0010,471.17,016.90.0548.8801,407.17485,400.5938.236.0090.0010,471.17,016.90.0559.2801,417.63485,400.5938.596.0090.0010,520.97,066.70.0559.2801,417.63485,400.5938.966.0090.0010,520.97,066.70.0559.7801,417.63485,400.5938.966.0090.0010,520.97,066.70.0559.7801,417.63485,400.5938.966.0090.0010,570.67,166.10.0569.7801,418.06485,400.5938.966.0090.0010,570.67,166.10.0569.7801,428.08485,400.5939.326.0090.0010,670.17,166.10.0569.7801,428.08485,400.5939.326.0090.0010,670.17,166.10.0569.7801,428.08485,400.5939.326.0090.0010,670.17,166.10.0569.7801,428.08485,400.5939.326.0090.0010,670.17,166.10.0569.7801,428.08485,400.59 <td>10,300</td> <td></td> <td></td> <td>10,272.2</td> <td>6,818.0</td> <td>0.0</td> <td>533.1</td> <td>801,391.49</td> <td>485,400.59</td> <td>37.14</td> <td>0.00</td>	10,300			10,272.2	6,818.0	0.0	533.1	801,391.49	485,400.59	37.14	0.00
6.0010,371.76,917.50.0543.6801,401.95485,400.5937.876.0090.0010,471.17,016.90.054.8801,407.17485,400.5937.876.0090.0010,471.17,016.90.0554.0801,417.40485,400.5938.596.0090.0010,520.97,066.70.0554.0801,417.63485,400.5938.596.0090.0010,525.07,076.80.0559.7801,417.63485,400.5938.966.0090.0010,525.07,070.80.0559.7801,417.63485,400.5938.966.0090.0010,570.67,116.40.0559.7801,418.06485,400.5938.966.0090.0010,570.67,116.10.0564.5801,422.85485,400.5939.326.0090.0010,670.37,166.10.0564.7801,423.0639.326.0090.0010,670.17,166.10.0564.7801,423.0639.326.0090.0010,670.17,166.10.0564.7801,423.0639.696.0090.0010,670.17,166.10.0540.75939.696.0090.0010,670.17,166.17,166.190.423.0690.465,400.5939.696.0090.0010,670.17,166.17,166.17,166.190.423.0690.465,400.5939.696.0090.0010,670.17,166.17,166.17,16	10,350			10,322.0	6,867.8	0.0	538.3	801,396.72	485,400.59	37.50	0.00
6.0090.0010,421.46,967.20.054.8801,407.17485,400.5938.236.0090.0010,471.17,016.90.0554.0801,412.40485,400.5938.966.0090.0010,520.97,066.70.0559.2801,417.63485,400.5938.966.0090.0010,525.07,070.80.0559.7801,418.06485,400.5938.966.0090.0010,525.07,070.80.0559.7801,418.06485,400.5938.966.0090.0010,570.67,116.40.0569.7801,418.06485,400.5938.996.0090.0010,670.67,116.40.0569.7801,428.08485,400.5939.326.0090.0010,670.37,166.10.0569.7801,428.08485,400.5939.696.0090.0010,670.17,215.90.0574.9801,423.08485,400.5939.69	10,400			10,371.7	6,917.5	0.0	543.6	801,401.95	485,400.59	37.87	0.00
6.00 90.00 10,471.1 7,016.9 0.0 554.0 801,412.40 485,400.59 38.59 6.00 90.00 10,520.9 7,066.7 0.0 559.2 801,417.63 485,400.59 38.96 6.00 90.00 10,525.0 7,070.8 0.0 559.7 801,418.06 485,400.59 38.96 6.00 90.00 10,570.6 7,116.4 0.0 559.7 801,418.06 485,400.59 38.99 6.00 90.00 10,570.6 7,116.4 0.0 564.5 801,422.85 485,400.59 39.32 6.00 90.00 10,670.1 7,166.1 0.0 564.5 801,422.85 485,400.59 39.69 6.00 90.00 10,670.1 7,166.1 0.0 569.7 801,423.30 485,400.59 39.69	10,45(10,421.4	6,967.2	0.0	548.8	801,407.17	485,400.59	38.23	0.00
6.0090.0010,520.97,066.70.0559.2801,417.63485,400.5938.966.0090.0010,525.07,070.80.0559.7801,418.06485,400.5938.996.0090.0010,570.67,116.40.0564.5801,418.06485,400.5939.326.0090.0010,620.37,166.10.0564.5801,422.85485,400.5939.326.0090.0010,670.17,166.10.0569.7801,423.08485,400.5939.696.0090.0010,670.17,215.90.0574.9801,433.30485,400.5939.69	10,50(10,471.1	7,016.9	0.0	554.0	801,412.40	485,400.59	38.59	0.00
6.00 90.00 10,525.0 7,070.8 0.0 559.7 801,418.06 485,400.59 38.99 6.00 90.00 10,570.6 7,116.4 0.0 564.5 801,422.85 485,400.59 39.32 6.00 90.00 10,620.3 7,166.1 0.0 569.7 801,428.08 485,400.59 39.69 6.00 90.00 10,670.1 7,215.9 0.0 569.7 801,423.30 485,400.59 39.69	10,55(7,066.7	0.0	559.2	801,417.63	485,400.59	38.96	0.00
6.00 90.00 10,570.6 7,116.4 0.0 564.5 801,422.85 485,400.59 39.32 6.00 90.00 10,620.3 7,166.1 0.0 569.7 801,428.08 485,400.59 39.32 6.00 90.00 10,670.3 7,166.1 0.0 569.7 801,428.08 485,400.59 39.69 6.00 90.00 10,670.1 7,215.9 0.0 574.9 801,423.30 485,400.59 40.05	10,55⁄			10,525.0	7,070.8	0.0	559.7	801,418.06	485,400.59	38.99	00.00
6.00 90.00 10,570.6 7,116.4 0.0 564.5 801,422.85 485,400.59 39.32 6.00 90.00 10,620.3 7,166.1 0.0 569.7 801,428.08 485,400.59 39.69 6.00 90.00 10,670.1 7,215.9 0.0 574.9 801,433.30 485,400.59 40.05	3rd Bone										
6.00 90.00 10,620.3 7,166.1 0.0 569.7 801,428.08 485,400.59 39.69 6.00 90.00 10,670.1 7,215.9 0.0 574.9 801,433.30 485,400.59 40.05	10,60(10,570.6	7, 116.4	0.0	564.5	801,422.85	485,400.59	39.32	0.00
6.00 90.00 10,670.1 7,215.9 0.0 574.9 801,433.30 485,400.59 40.05	10,65(10,620.3	7,166.1	0.0	569.7	801,428.08	485,400.59	39.69	0.00
	10,70(10,670.1	7,215.9	0.0	574.9	801,433.30	485,400.59	40.05	0.00

COMPASS 5000.1 Build 56

Page 11

KAISHER-PRANCIS OIL COMPANY

Company:	Kaiser Francis					Local Co-ordinate Reference:	te Reference:	Well Bell Lake Unit North 434H	North 434H	
Project: Site: Wellbore: Dociene:	Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 100440 Pedi Lake Unit North 434H	р 434Н ћ 434Н 1 434Н 1 434Н 1 * Мылт 221				TVD Reference: MD Reference: North Reference: Survey Calculation Method:	: ion Method:	WELL @ 3454.2usft (Origina WELL @ 3454.2usft (Origina Grid Minimum Curvature EDM 6000.1 scoro b	WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature	
						Data0a36.			5	
Planned Survey	>									
QW	Inc	Azi (azimuth)	TVD	TVDSS	S/N	E/W	Easting	Northing	V. Sec	DLeg
(ilsu)	(。)	(。)	(usft)	(nsft)	(nsft)	_	(nsft)	(nsft)	(usft)	(°/100usft)
10,750.0	50.0 6.00	00.00	10,719.8	7,265.6	0.0	580.1	801,438.53	485,400.59	40.42	0.00
10,800.0	00.0 6.00	90.00	10,769.5	7,315.3	0.0	585.4	801,443.76	485,400.59	40.78	0.00
10,805.0	05.0 6.00	00.00	10,774.5	7,320.3	0.0	585.9	801,444.28	485,400.59	40.82	0.00
10,850.0	5.21 5.21	21 75.63	10,819.3	7,365.1	0.5	590.2	801,448.61	485,401.10	41.62	3.56
10,900.0	00.0 4.83	83 55.62	10,869.1	7,414.9	2.3	594.2	801,452.55	485,402.85	43.65	3.56
10,950.0	50.0 5.09	35.10	10,918.9	7,464.7	5.3	597.2	801,455.56	485,405.86	46.85	3.56
10,956.1		5.16 32.79	10,925.0	7,470.8	5.7	597.5	801,455.87	485,406.31	47.33	3.56
3rd Bon	oring Sand									
11,000.0		5.90 18.40	10,968.7	7,514.5	9.5	599.3	801,457.65	485,410.11	51.24	3.56
11,005.0	05.0 6.00	00 17.00	10,973.6	7,519.4	10.0	599.4	801,457.81	485,410.60	51.74	3.56
11,036.6		9.16 15.95	11,005.0	7,550.8	14.0	600.6	801,458.98	485,414.61	55.82	10.00
7 5/8" In	7 5/8" Intermediate Casing									
11,050.0	50.0 10.49	49 15.70	11,018.2	7,564.0	16.2	601.2	801,459.60	485,416.80	58.05	10.00
11,100.0	00.0 15.49	49 15.14	11,066.9	7,612.7	27.0	604.2	801,462.58	485,427.63	69.07	10.00
11,150.0	50.0 20.49	49 14.84	11,114.4	7,660.2	42.0	608.2	801,466.57	485,442.55	84.22	10.00
11,200.0	00.0 25.49	49 14.66	11,160.4	7,706.2	60.8	613.1	801,471.54	485,461.43	103.40	10.00
11,250.0	50.0 30.48	48 14.54	11,204.6	7,750.4	83.5	619.1	801,477.45	485,484.12	126.46	10.00
11,300.0	00.0 35.48	48 14.44	11,246.5	7,792.3	109.9	625.9	801,484.25	485,510.47	153.21	10.00
11,323.1	23.1 37.79	79 14.41	11,265.0	7,810.8	123.2	629.3	801,487.68	485,523.80	166.75	10.00
Wolfcamp	du									
11,350.0	50.0 40.48	48 14.37	11,285.9	7,831.7	139.7	633.5	801,491.91	485,540.26	183.47	10.00
11,400.0	00.0 45.48	48 14.31	11,322.5	7,868.3	172.7	642.0	801,500.34	485,573.28	216.99	10.00
11,450.0	50.0 50.48	48 14.26	11,355.9	7,901.7	208.7	651.1	801,509.51	485,609.26	253.52	10.00
11,500.0	00.0 55.47	47 14.22	11,386.0	7,931.8	247.3	660.9	801,519.32	485,647.94	292.79	10.00
11,550.0	50.0 60.47	47 14.18	11,412.5	7,958.3	288.4	671.3	801,529.71	485,689.02	334.50	10.00
11,600.0	00.0 65.47	47 14.14	11,435.2	7,981.0	331.6	682.2	801,540.61	485,732.19	378.32	10.00
11,650.0	50.0 70.47	47 14.11	11,454.0	7,999.8	376.5	693.5	801,551.92	485,777.13	423.93	10.00
11,700.0	00.0 75.47	47 14.08	11,468.6	8,014.4	422.9	705.2	801,563.55	485,823.48	470.99	10.00
4/10/2019 12:31:29PM	29PM			Page 12					COMPAS	COMPASS 5000.1 Build 56

KATSER-PRANCES OIL COMPANY

Morcor Engineering Morcor Standard Plan

Planned Survey MD (usft) (11,750.0 11,800.0 11,800.0 11,800.0 11,900.0 12,000.0 12,150.0 12,150.0 12,150.0 12,450.0 12,450.0 12,450.0 12,550.0	(°) 80.46 85.46 90.00 90.00	Azi (azimuth) (°) 14.05 14.00 13.91 13.91 12.91	TVD (usft) 11,479.1 11,485.2 11,487.0 11,487.0 11,487.0	TVDSS (usft) 8,024.9 8,031.0 8,032.8	(U S)N	Ň				
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11,845.4 11,850.0 11,950.0 12,000.0 12,100.0 12,100.0 12,150.0 12,350.0 12,450.0 12,450.0 12,450.0	00.00 00.00 00.00 00.00	14.00 13.91 12.91 11.91	11,487.0 11,487.0 11,487.0	8,032.8	518.4	729.1	801,587.47	485,919.03	567.96	10.00
11,850.0 11,950.0 12,000.0 12,000.0 12,100.0 12,150.0 12,250.0 12,450.0 12,450.0 12,450.0	90.00 90.00 90.00	13.91 12.91 11.91	11,487.0 11,487.0		562.4	740.1	801,598.45	485,963.03	612.63	10.00
11,900.0 11,950.0 12,050.0 12,150.0 12,150.0 12,150.0 12,250.0 12,450.0 12,450.0 12,450.0	00.00 90.00	12.91 11.91	11,487.0	8,032.8	566.9	741.2	801,599.56	485,967.49	617.16	2.00
11,950.0 12,000.0 12,050.0 12,100.0 12,150.0 12,250.0 12,350.0 12,450.0 12,450.0 12,450.0	90.00	11.91		8,032.8	615.5	752.8	801,611.16	486,016.13	666.48	2.00
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12,050.0 12,150.0 12,150.0 12,200.0 12,300.0 12,450.0 12,450.0 12,550.0	90.00	10.91	11,487.0	8,032.8	713.4	773.4	801,631.79	486,113.97	765.52	2.00
12,100.0 12,150.0 12,200.0 12,250.0 12,450.0 12,450.0 12,450.0 12,550.0	90.00	9.91	11,487.0	8,032.8	762.6	782.4	801,640.83	486,163.15	815.21	2.00
12,150.0 12,250.0 12,350.0 12,350.0 12,400.0 12,450.0 12,550.0	90.00	8.91	11,487.0	8,032.8	811.9	790.6	801,649.01	486,212.47	864.99	2.00
12,200.0 12,250.0 12,350.0 12,400.0 12,450.0 12,550.0	90.00	7.92	11,487.0	8,032.8	861.3	797.9	801,656.33	486,261.93	914.84	2.00
12,250.0 12,300.0 12,400.0 12,450.0 12,550.0	90.00	6.92	11,487.0	8,032.8	910.9	804.4	801,662.78	486,311.51	964.75	2.00
12,300.0 12,350.0 12,450.0 12,450.0 12,550.0	90.00	5.92	11,487.0	8,032.8	90.09	810.0	801,668.37	486,361.20	1,014.70	2.00
12,350.0 12,400.0 12,450.0 12,550.0	90.00	4.92	11,487.0	8,032.8	1,010.4	814.7	801,673.09	486,410.98	1,064.69	2.00
12,400.0 12,450.0 12,550.0	90.00	3.92	11,487.0	8,032.8	1,060.2	818.6	801,676.95	486,460.83	1,114.68	2.00
12,450.0 12,550.0 12,550.0	90.00	2.92	11,487.0	8,032.8	1,110.1	821.5	801,679.93	486,510.74	1,164.68	2.00
12,500.0 12,550.0	90.00	1.92	11,487.0	8,032.8	1,160.1	823.7	801,682.05	486,560.69	1,214.66	2.00
12,550.0	90.00	0.93	11,487.0	8,032.8	1,210.1	824.9	801,683.29	486,610.68	1,264.61	2.00
0 000 01	90.00	359.93	11,487.0	8,032.8	1,260.1	825.3	801,683.66	486,660.67	1,314.51	2.00
12,600.0	90.00	358.93	11,487.0	8,032.8	1,310.1	824.8	801,683.16	486,710.67	1,364.35	2.00
12,646.0	90.00	358.01	11,487.0	8,032.8	1,356.1	823.5	801,681.94	486,756.65	1,410.14	2.00
12,650.0	90.00	358.01	11,487.0	8,032.8	1,360.1	823.4	801,681.80	486,760.65	1,414.12	0.00
12,700.0	90.00	358.01	11,487.0	8,032.8	1,410.0	821.7	801,680.06	486,810.62	1,463.84	0.00

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COMPASS 5000.1 Build 56

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KAISBR-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	ћ 434Н ћ 434Н ћ 434Н ћ 434Н Лit North 434Н				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	e Reference: : on Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original V WELL @ 3454.2usft (Original V Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	22
Planned Survey MD	<u>2</u>	Δri (azimuth)	Ş	SSUVE	SIN	ž	Fasting	Northing	Sec V	
(ilsu)	<u>(</u>)	(°)	(tjsn)	(ilsti)	(1Jsn)	(ilsu)	(1Jsn)	(nsft)	(usft)	°/100usft)
13,000.0		90.00 358.01	11,487.0	8,032.8	1,709.8	811.3	801,669.64	487,110.44	1,762.21	00.00
13,050.0		90.00 358.01	11,487.0	8,032.8	1,759.8	809.5	801,667.91	487,160.41	1,811.94	0.00
13,100.0		90.00 358.01	11,487.0	8,032.8	1,809.8	807.8	801,666.17	487,210.38	1,861.66	00.00
13,150.0	00.00	.00 358.01	11,487.0	8,032.8	1,859.8	806.0	801,664.43	487,260.35	1,911.39	0.00
13,200.0	00.00	.00 358.01	11,487.0	8,032.8	1,909.7	804.3	801,662.70	487,310.32	1,961.12	00.00
13,250.0	00.00	.00 358.01	11,487.0	8,032.8	1,959.7	802.6	801,660.96	487,360.29	2,010.85	0.00
13,300.0	00.00	.00 358.01	11,487.0	8,032.8	2,009.7	800.8	801,659.23	487,410.26	2,060.57	0.00
13,350.0	00.06 0	.00 358.01	11,487.0	8,032.8	2,059.6	799.1	801,657.49	487,460.23	2,110.30	0.00
13,400.0	00.00	.00 358.01	11,487.0	8,032.8	2,109.6	797.4	801,655.75	487,510.20	2,160.03	0.00
13,450.0	00.00	.00 358.01	11,487.0	8,032.8	2,159.6	795.6	801,654.02	487,560.17	2,209.76	00.00
13,500.0	00.00	.00 358.01	11,487.0	8,032.8	2,209.5	793.9	801,652.28	487,610.14	2,259.48	0.00
13,550.0	00.00	.00 358.01	11,487.0	8,032.8	2,259.5	792.2	801,650.54	487,660.11	2,309.21	0.00
13,600.0	00.06 0	.00 358.01	11,487.0	8,032.8	2,309.5	790.4	801,648.81	487,710.08	2,358.94	0.00
13,650.0	00.00	.00 358.01	11,487.0	8,032.8	2,359.5	788.7	801,647.07	487,760.05	2,408.67	0.00
13,700.0	00.00	.00 358.01	11,487.0	8,032.8	2,409.4	786.9	801,645.34	487,810.02	2,458.39	0.00
13,750.0	00.00	.00 358.01	11,487.0	8,032.8	2,459.4	785.2	801,643.60	487,859.99	2,508.12	0.00
13,800.0	00.00	.00 358.01	11,487.0	8,032.8	2,509.4	783.5	801,641.86	487,909.96	2,557.85	0.00
13,850.0	00.00	.00 358.01	11,487.0	8,032.8	2,559.3	781.7	801,640.13	487,959.93	2,607.58	00.00
13,900.0	00.00	.00 358.01	11,487.0	8,032.8	2,609.3	780.0	801,638.39	488,009.90	2,657.30	0.00
13,950.0		90.00 358.01	11,487.0	8,032.8	2,659.3	778.3	801,636.65	488,059.87	2,707.03	0.00
14,000.0	00.00	.00 358.01	11,487.0	8,032.8	2,709.2	776.5	801,634.92	488, 109.84	2,756.76	00.00

COMPASS 5000.1 Build 56

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Morcor Engineering Morcor Standard Plan

AISSER-FILANCIS OIL COMPANY

Company: Project: Site: Well:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H	1 4 34H 1 4 34H 1 4 34H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	ate Reference:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original V WELL @ 3454.2usft (Original V Grid	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid	
Wellbore: Design:	Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	n 434H Init North 434H				Survey Calculation Method: Database:	tion Method:	Minimum Curvature EDM 5000.1 Single User Db	e i 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)
14,350.0			11,487.0	8,032.8	3,059.0	764.4	801,622.76	488,459.63	3,104.85	0.00
14,400.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,109.0	762.6	801,621.03	488,509.60	3,154.58	0.00
14,450.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,159.0	760.9	801,619.29	488,559.57	3,204.31	0.00
14,500.0	0.0 0.00	00 358.01	11,487.0	8,032.8	3,208.9	759.2	801,617.56	488,609.54	3,254.03	0.00
14,550.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,258.9	757.4	801,615.82	488,659.51	3,303.76	0.00
14,600.0	0.0 0.00	00 358.01	11,487.0	8,032.8	3,308.9	755.7	801,614.08	488,709.48	3,353.49	0.00
14,650.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,358.9	754.0	801,612.35	488,759.45	3,403.22	0.00
14,700.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,408.8	752.2	801,610.61	488,809.42	3,452.94	0.00
14,750.0	0.0 0.00	00 358.01	11,487.0	8,032.8	3,458.8	750.5	801,608.87	488,859.38	3,502.67	0.00
14,800.0	0.0 0.00	00 358.01	11,487.0	8,032.8	3,508.8	748.7	801,607.14	488,909.35	3,552.40	0.00
14,850.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,558.7	747.0	801,605.40	488,959.32	3,602.13	0.00
14,900.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,608.7	745.3	801,603.67	489,009.29	3,651.85	0.00
14,950.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,658.7	743.5	801,601.93	489,059.26	3,701.58	0.00
15,000.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,708.6	741.8	801,600.19	489,109.23	3,751.31	0.00
15,050.0	0.0 90.00	358.01	11,487.0	8,032.8	3,758.6	740.1	801,598.46	489,159.20	3,801.04	0.00
15,100.0	0.0 0.00	00 358.01	11,487.0	8,032.8	3,808.6	738.3	801,596.72	489,209.17	3,850.76	0.00
15,150.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,858.6	736.6	801,594.98	489,259.14	3,900.49	0.00
15,200.0	0.0 90.00	358.01	11,487.0	8,032.8	3,908.5	734.9	801,593.25	489,309.11	3,950.22	0.00
15,250.0	0.0 90.00	00 358.01	11,487.0	8,032.8	3,958.5	733.1	801,591.51	489,359.08	3,999.95	0.00
15,300.0	0.0 90.00	358.01	11,487.0	8,032.8	4,008.5	731.4	801,589.78	489,409.05	4,049.67	0.00
15,350.0	0.0 0.00	00 358.01	11,487.0	8,032.8	4,058.4	729.7	801,588.04	489,459.02	4,099.40	0.00
15,400.0	0.0 90.00	00 358.01	11,487.0	8,032.8	4,108.4	727.9	801,586.30	489,508.99	4,149.13	0.00
15,450.0	0.0 0.00	358.01	11,487.0	8,032.8	4,158.4	726.2	801,584.57	489,558.96	4,198.86	0.00
15,500.0	0.0 90.00	358.01	11,487.0	8,032.8	4,208.3	724.4	801,582.83	489,608.93	4,248.58	0.00
15,550.0	0.0 90.00	00 358.01	11,487.0	8,032.8	4,258.3	722.7	801,581.09	489,658.90	4,298.31	0.00
15,600.0	0.0 0.00	00 358.01	11,487.0	8,032.8	4,308.3	721.0	801,579.36	489,708.87	4,348.04	0.00
15,650.0	0.0 0.00	00 358.01	11,487.0	8,032.8	4,358.3	719.2	801,577.62	489,758.84	4,397.77	0.00
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KAISSE PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	34H 34H 34H 34H North 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Reference: : on Method:	Well Beil Lake Unit North 434H WELL @ 3454.2usft (Original V WELL @ 3454.2usft (Original V Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature 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)
15,700.0			11,487.0	8,032.8	4,408.2	717.5	801,575.89	489,808.81	4,447.49	0.00
15,750.0	0.00	358.01	11,487.0	8,032.8	4,458.2	715.8	801,574.15	489,858.78	4,497.22	0.00
15,800.0	0.00	358.01	11,487.0	8,032.8	4,508.2	714.0	801,572.41	489,908.75	4,546.95	0.00
15,850.0	0.00	358.01	11,487.0	8,032.8	4,558.1	712.3	801,570.68	489,958.72	4,596.68	00.00
15,900.0	0.00 90.00	358.01	11,487.0	8,032.8	4,608.1	710.6	801,568.94	490,008.69	4,646.40	0.00
15,950.0	0.00	358.01	11,487.0	8,032.8	4,658.1	708.8	801,567.20	490,058.66	4,696.13	0.00
16,000.0	0.00	358.01	11,487.0	8,032.8	4,708.0	707.1	801,565.47	490,108.63	4,745.86	0.00
16,050.0	0.00	358.01	11,487.0	8,032.8	4,758.0	705.3	801,563.73	490,158.60	4,795.59	0.00
16,100.0	0.00	358.01	11,487.0	8,032.8	4,808.0	703.6	801,562.00	490,208.57	4,845.31	0.00
16,150.0	0.00 90.00	358.01	11,487.0	8,032.8	4,857.9	701.9	801,560.26	490,258.54	4,895.04	0.00
16,200.0	0.00	358.01	11,487.0	8,032.8	4,907.9	700.1	801,558.52	490,308.51	4,944.77	0.00
16,250.0	0.00	358.01	11,487.0	8,032.8	4,957.9	698.4	801,556.79	490,358.48	4,994.50	0.00
16,300.0	0.00	358.01	11,487.0	8,032.8	5,007.9	696.7	801,555.05	490,408.45	5,044.22	0.00
16,350.0	0.00	358.01	11,487.0	8,032.8	5,057.8	694.9	801,553.31	490,458.42	5,093.95	0.00
16,400.0	0.00	358.01	11,487.0	8,032.8	5,107.8	693.2	801,551.58	490,508.39	5,143.68	0.00
16,450.0	0.00 0.00	358.01	11,487.0	8,032.8	5,157.8	691.5	801,549.84	490,558.36	5,193.41	0.00
16,500.0	0.00 0.00	358.01	11,487.0	8,032.8	5,207.7	689.7	801,548.11	490,608.33	5,243.13	0.00
16,550.0	0.00 0.00	358.01	11,487.0	8,032.8	5,257.7	688.0	801,546.37	490,658.30	5,292.86	00.00
16,600.0	0.00	358.01	11,487.0	8,032.8	5,307.7	686.2	801,544.63	490,708.27	5,342.59	0.00
16,650.0	0.00	358.01	11,487.0	8,032.8	5,357.6	684.5	801,542.90	490,758.24	5,392.32	0.00
16,700.0	0.00	358.01	11,487.0	8,032.8	5,407.6	682.8	801,541.16	490,808.21	5,442.04	0.00
16,750.0	0.00	358.01	11,487.0	8,032.8	5,457.6	681.0	801,539.42	490,858.18	5,491.77	0.00
16,800.0	0.00	358.01	11,487.0	8,032.8	5,507.6	679.3	801,537.69	490,908.15	5,541.50	0.00
16,850.0	0.00	358.01	11,487.0	8,032.8	5,557.5	677.6	801,535.95	490,958.12	5,591.23	0.00
16,900.0	0.00	358.01	11,487.0	8,032.8	5,607.5	675.8	801,534.22	491,008.09	5,640.95	0.00

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COMPASS 5000.1 Build 56

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KAISSE-PRANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	North 434H North 434H North 434H North 434H North 434H Ke Unit Nort	th 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Reference: : on Method:	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original M WELL @ 3454.2usft (Original M Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454.2usft (Original Well Elev) WELL @ 3454.2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	
Planned Survey MD (usft)	e Inc	×	Azi (azimuth) (°)	TVD (list)	TVDSS (tist)	N/S (usft)	E.W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
17,050.0	2	90.00	358.01	11,487.0	8,032.8	5,757.4	670.6	801,529.01	491,158.00	5,790.14	0.00
17,100.0		00.00	358.01	11,487.0	8,032.8	5,807.4	668.9	801,527.27	491,207.97	5,839.86	0.00
17,150.0		90.00	358.01	11,487.0	8,032.8	5,857.3	667.1	801,525.53	491,257.94	5,889.59	0.00
17,200.0		00.00	358.01	11,487.0	8,032.8	5,907.3	665.4	801,523.80	491,307.91	5,939.32	00.00
17,250.0		00.06	358.01	11,487.0	8,032.8	5,957.3	663.7	801,522.06	491,357.88	5,989.05	00.00
17,300.0		00.06	358.01	11,487.0	8,032.8	6,007.3	661.9	801,520.33	491,407.85	6,038.77	0.00
17,350.0		90.00	358.01	11,487.0	8,032.8	6,057.2	660.2	801,518.59	491,457.82	6,088.50	0.00
17,400.0		90.00	358.01	11,487.0	8,032.8	6,107.2	658.5	801,516.85	491,507.79	6,138.23	0.00
17,450.0		00.06	358.01	11,487.0	8,032.8	6,157.2	656.7	801,515.12	491,557.76	6,187.96	00.00
17,500.0		00.06	358.01	11,487.0	8,032.8	6,207.1	655.0	801,513.38	491,607.73	6,237.68	0.00
17,550.0		00.06	358.01	11,487.0	8,032.8	6,257.1	653.3	801,511.64	491,657.70	6,287.41	00.00
17,600.0		90.00	358.01	11,487.0	8,032.8	6,307.1	651.5	801,509.91	491,707.67	6,337.14	0.00
17,650.0		90.00	358.01	11,487.0	8,032.8	6,357.0	649.8	801,508.17	491,757.64	6,386.87	0.00
17,700.0		00.06	358.01	11,487.0	8,032.8	6,407.0	648.0	801,506.44	491,807.61	6,436.59	00.00
17,750.0		00.00	358.01	11,487.0	8,032.8	6,457.0	646.3	801,504.70	491,857.58	6,486.32	00.00
17,800.0		00.00	358.01	11,487.0	8,032.8	6,507.0	644.6	801,502.96	491,907.55	6,536.05	00.00
17,850.0		90.00	358.01	11,487.0	8,032.8	6,556.9	642.8	801,501.23	491,957.52	6,585.78	00.00
17,900.0		90.00	358.01	11,487.0	8,032.8	6,606.9	641.1	801,499.49	492,007.49	6,635.50	0.00
17,950.0		00.00	358.01	11,487.0	8,032.8	6,656.9	639.4	801,497.75	492,057.46	6,685.23	00.00
18,000.0		00.06	358.01	11,487.0	8,032.8	6,706.8	637.6	801,496.02	492,107.42	6,734.96	0.00
18,050.0		00.06	358.01	11,487.0	8,032.8	6,756.8	635.9	801,494.28	492,157.39	6,784.69	00.00

COMPASS 5000.1 Build 56

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6,784.69 6,834.41 6,884.14 6,983.60 6,983.60 7,033.32 7,083.05

492,157.39 492,207.36 492,257.33 492,307.30

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KAISSER-FILANCIS OIL COMPANY

Morcor Engineering Morcor Standard Plan

Company: Project: Site: Well: Wellbore: Design:	Kaiser Francis Beil Lake Unit North 434H Beil Lake Unit North 434H Beil Lake Unit North 434H Beil Lake Unit North 434H 190410 Beil Lake Unit North 434H	th 434H th 434H th 434H th 434H th 434H Unit North 434H				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	te Reference: : on Method:	Weil Beil Lake Unit North 434H WELL @ 3454.2usft (Original Well WELL @ 3454.2usft (Original Well Grid Minimum Curvature EDM 5000.1 Single User Db	Well Bell Lake Unit North 434H WELL @ 3454 2usft (Original Well Elev) WELL @ 3454 2usft (Original Well Elev) Grid Minimum Curvature EDM 5000.1 Single User Db	22
Planned Survey										
MD (tjsn)	lnc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Easting (usft)	Northing (usft)	V. Sec (usft)	DLeg (°/100usft)
18,400.0		90.00 358.01	11,487.0	8,032.8	7,106.6	623.7	801,482.13	492,507.18	7,132.78	0.00
18,450.0		90.00 358.01	11,487.0	8,032.8	7,156.6	622.0	801,480.39	492,557.15	7,182.51	0.00
18,500.0		90.00 358.01	11,487.0	8,032.8	7,206.5	620.3	801,478.66	492,607.12	7,232.23	0.00
18,550.0		90.00 358.01	11,487.0	8,032.8	7,256.5	618.5	801,476.92	492,657.09	7,281.96	0.00
18,600.0		90.00 358.01	11,487.0	8,032.8	7,306.5	616.8	801,475.18	492,707.06	7,331.69	0.00
18,650.0		90.00 358.01	11,487.0	8,032.8	7,356.4	615.1	801,473.45	492,757.03	7,381.42	0.00
18,700.0		90.00 358.01	11,487.0	8,032.8	7,406.4	613.3	801,471.71	492,807.00	7,431.14	0.00
18,750.0		90.00 358.01	11,487.0	8,032.8	7,456.4	611.6	801,469.97	492,856.97	7,480.87	0.00
18,800.0		90.00 358.01	11,487.0	8,032.8	7,506.4	609.8	801,468.24	492,906.94	7,530.60	0.00
18,850.0		90.00 358.01	11,487.0	8,032.8	7,556.3	608.1	801,466.50	492,956.91	7,580.33	0.00
18,900.0		90.00 358.01	11,487.0	8,032.8	7,606.3	606.4	801,464.77	493,006.88	7,630.05	0.00
18,950.0		90.00 358.01	11,487.0	8,032.8	7,656.3	604.6	801,463.03	493,056.85	7,679.78	0.00
19,000.0		90.00 358.01	11,487.0	8,032.8	7,706.2	602.9	801,461.29	493,106.82	7,729.51	0.00
19,050.0		90.00 358.01	11,487.0	8,032.8	7,756.2	601.2	801,459.56	493, 156. 79	7,779.24	0.00
19,100.0		90.00 358.01	11,487.0	8,032.8	7,806.2	599.4	801,457.82	493,206.76	7,828.96	0.00
19,150.0		90.00 358.01	11,487.0	8,032.8	7,856.1	597.7	801,456.08	493,256.73	7,878.69	0.00
19,200.0		90.00 358.01	11,487.0	8,032.8	7,906.1	596.0	801,454.35	493,306.70	7,928.42	0.00

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5 1/2" Production Casing

COMPASS 5000.1 Build 56

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8,006.0 8,056.0

Page 18

11,487.0

	Bell Lake Unit North 434H	Bell Lake Unit North 434H			MD Rei	I VU Reference: MD Reference:	WELL @ 3454.2usit (Original Well Elev) WELL @ 3454.2usft (Original Well Elev)
Well: Wellbore: Design:	Bell Lake Unit North 434H Bell Lake Unit North 434H 190410 Bell Lake Unit North 434H	orth 434H orth 434H 9 Unit North 43	14H		North Refe Survey Ca Database:	North Reference: Survey Calculation Method: Database:	Grid Minimum Curvature EDM 5000.1 Single User Db
Casing Points							
	Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")	
	19,619.5	11,487.0			5-1/2	6-3/4	
	11,036.6 1.272.0	11,005.0 1.272.0	 7 5/8" Intermediate Casing 10 3/4" Surface Casing 		7-5/8 10-3/4	9-7/8 12-1/4	
	120.0	120.0			20	26	
Formations							
2	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	diD (°)	Dip Direction (°)	
	4,722.0	4,722.0 B	Base of Salt		0.00		
	6,202.3	6,197.0 C	Cherry Canyon		0.00		
	9,548.6	9,525.0 1	1st Bone Spring Sand		0.00		
	7,534.6	7,522.0 B	Brushy Canyon		0.00		
	10,956.1	10,925.0 3	3rd Bone Spring Sand		00.0		
	8,714.1	8,695.0 A	Avalon		00.0		
	1,622.0	1,622.0 S	Salado		00.0		
	8,640.7	8,622.0 B	Bone Spring		00.0		
	1,822.0	1,822.0 T	Top of Salt		00.0		
	1,222.0	1,222.0 R	Rustler		00.0		
	11,323.1	11,265.0 V	Wolfcamp		00.0		
	4,972.0	4,972.0 L	Lamar		00.0		
	10,554.1	10,525.0 3	3rd Bone Spring Lime		00.0		
	5,172.0	5,172.0 B	Bell Canyon		00.0		
	10,031.3	10,005.0 2	2nd Bone Spring Sand		0.00		