<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

Form C-101 August 1, 2011

Permit 331602

	APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE									
Operator Name and Address		2. OGRID Number								
KAISER-FRANCIS OIL	.00	12361								
PO Box 21468		3. API Number								
Tulsa, OK 74121146		30-015-53369								
4. Property Code	5. Property Name	6. Well No.								
333759	BRANTLEY FEE 2419 2BSS	001H								
7 Surface Location										

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	24	23S	28E		1756	S	284	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County					
1	19	23S	29E	1	1980	S	100	E	Eddy					

9. Pool Information

CULEBRA BLUFF;BONE SPRING, SOUTH	15011

Additional Well Information

11. Work Type 12. Well Type		13. Cable/Rotary	15. Ground Level Elevation	
New Well OIL			Private	2997
16. Multiple 17. Proposed Depth		18. Formation	19. Contractor	20. Spud Date
N	17350	2nd Bone Spring Sand		3/1/2023
Depth to Ground water		Distance from nearest fresh water well	Distance to nearest surface water	

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

			Z I. FTOPOSEU Casing	and Cement Frogram		
Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	550	317	0
Int1	12.25	9.625	40	2784	610	0
Prod 8.5 5.5			23	17350	2296	1784

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer		
Annular	5000	3500	Hydril		
Double Ram	10000	5000	Cameron		
Pipe	10000	5000	Cameron		

knowledge and b	pelief.	s true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION		
Printed Name:	Electronically filed by Kristin L G	ray	Approved By:	Katherine Pickford			
Title:			Title:	Geoscientist			
Email Address:	kristing@kfoc.net		Approved Date:	2/7/2023 Expiration Date: 2/7/2025			
Date:	2/2/2023	Phone: 918-491-4209	Conditions of Approval Attached				

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1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

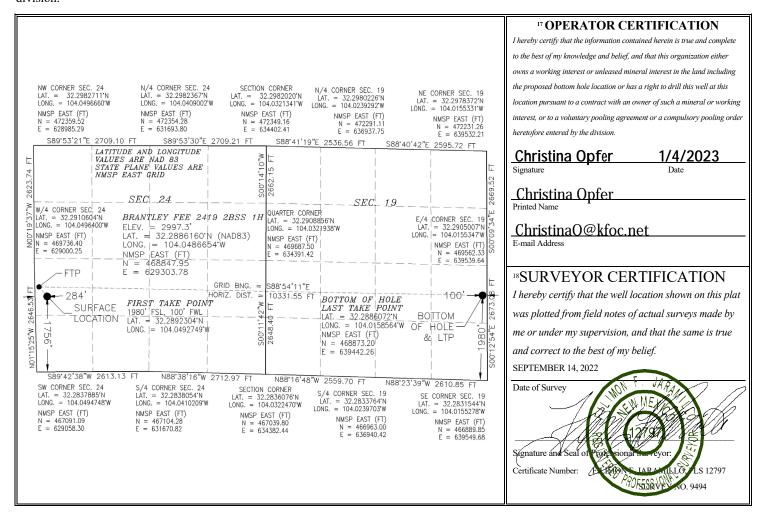
¹ API Number		² Pool Code		
30-015-53369		15011	Culebra Bluff; Bone Sprir	ng, South
⁴ Property Code		⁵ Pr	⁶ Well Number	
333759		BRANTLE	1H	
⁷ OGRID No.		8 O _I	perator Name	⁹ Elevation
12361		KAISER-FRAN	NCIS OIL COMPANY	2997.3

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
L	24	23 S	28 E		1756	SOUTH	284	WEST	EDDY			
" Bottom Hole Location If Different From Surface												

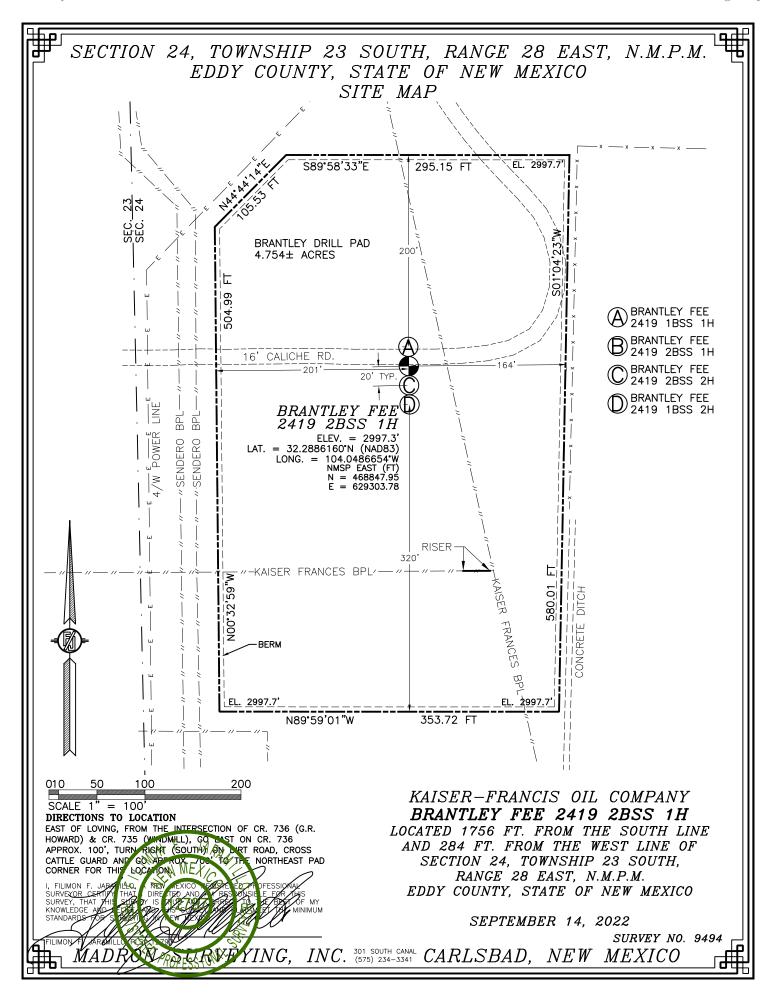
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	23 S	29 E		1980	SOUTH	100	EAST	EDDY
12 Dedicated Acres	13 Joint	or Infill	4 Consolidation	n Code			15 Order No.		
318.46									

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



Intent	t X	As Dril	led											
API#														
-	rator Nar SER-FF	ne: RANCIS (OIL COI	MPAN	ΙΥ		perty N			2419	2BS	S		Well Number 1H
Viel C	Off Point ((KOD)				l								
UL	Section	Township	Range	Lot	Feet		From N	N/S	Feet		From	n E/W	County	
Latitu	ıde				Longitu	ıde							NAD	
First 1	Take Poin	t (FTP)												
UL L	Section 24	Township 23S	Range 28E	Lot	Feet 1980		From N		Feet 100		From	n E/W ST	County EDDY	
Latitu 32.2	ide 289230	4			Longitu 104.0		2749		<u>I</u>				NAD 83	
L t T	ialaa Dailaa	+ (I TD)												
UL	Section	Township	Range	Lot	Feet		m N/S	Feet		From I		Count		
l Latitu		23S	29E		1980 Longitu	ıde	UTH	100		WES	Т	EDD [*]	Y	
32.2	288607	2			104.0	0158	3564					83		
		defining v	vell for th	e Horiz	zontal Տր	pacing	g Unit?	. []				
is this	well an	infill well?												
	l is yes pl ng Unit.	ease provi	ide API if	availak	ole, Opei	rator	Name	and v	vell n	umber	for [Definir	ng well fo	r Horizontal
API#														
Ope	rator Nar	ne:	1			Property Name:						Well Number		
						<u> </u>								V7.00 /20 /2019

KZ 06/29/2018



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Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code				
⁴ Property Code		⁵ Pı	roperty Name	⁶ Well Number		
		BRANTLEY FEE 2419 2BSS				
⁷ OGRID No.		8 Operator Name				
12361		KAISER-FRANCIS OIL COMPANY				
		C-	unfoca I continu			

Surface Location

UL or lot no.	Section	1 ownsnip	Kange	Lot Ian	Feet from the	North/South line	Feet from the	East/West line	County		
L	24	23 S	28 E		1756	SOUTH	284	WEST	EDDY		
" Bottom Hole Location If Different From Surface											

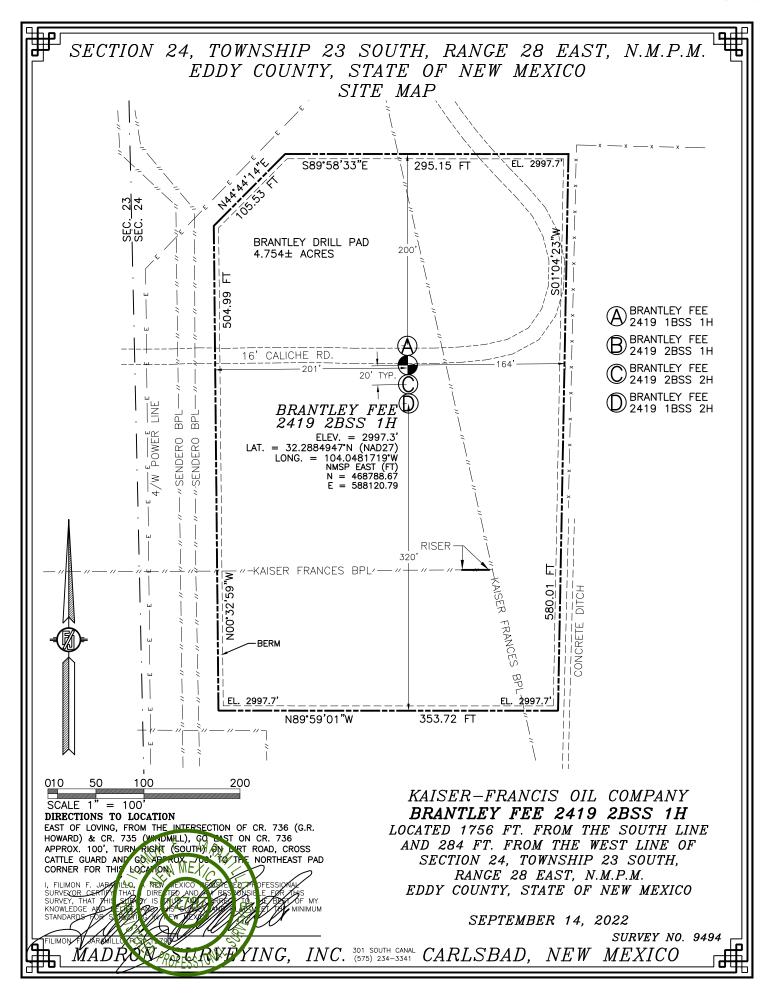
UL or lot no.	Section 19	Township 23 S	Range 29 E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 100	East/West line EAST	County EDDY
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code		n Code			¹⁵ Order No.				

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

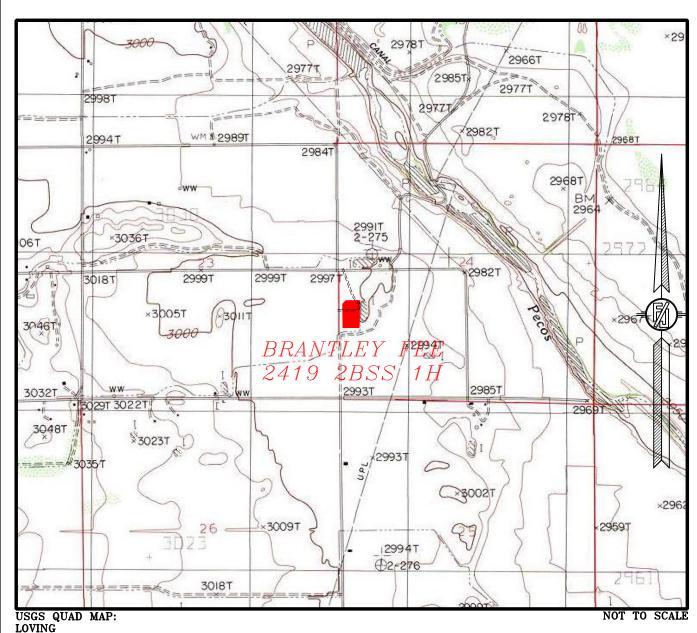
NW CORNER SEC. 24 N/4 CORNER SEC. 24 SECTION CORNER N/4 CORNER SEC. 19 NE CORNER SEC. 19 LAT. = 32.2981499*N LAT. = 32.2981153*N LAT. = 32.2980505*N LAT. = 32.2997010*N LAT. = 32.29971755*N LONG. = 104.0491721*W LONG. = 104.0316405*W LONG. = 104.0334363*W LONG. = 104.0334363*W LONG. = 104.035405*W NMSP EAST (FT) NMSP EA	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
LATITUDE AND LONGITUDE VALUES ARE NAD 27 VALUES ARE NAMEY EAST GRID VALUE	Printed Name E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. SEPTEMBER 14, 2022 Date of Survey Signature and Seal of Professional Serveyor: Certificate Number: Askadows LARA MILLO LS 12797 PESSENT CO. 9494

Inten	t	As Dril	led											
API#]											
	Operator Name: KAISER-FRANCIS OIL COMPANY				ΙΥ		oerty N ANTL			2419	2BS	ss		Well Number 1H
	Off Point		T -	1. 1					Ι _		T _		1 -	
UL	Section	Township	Range	Lot	Feet		From N	N/S	Feet		Fron	n E/W	County	
Latitu	ıde				Longitu	ıde							NAD	
First 1	Гаke Poir	nt (FTP)			•									
UL	Section	Township	Range	Lot	Feet		From N		Feet			n E/W	County	
L Latitu	24 ude	23S	28E		1980 Longitu	ıde	SOUT	I H	100		WE:	51	EDDY NAD	
32.2	289109	1			104.0	0487	'813						27	
Last T	ake Poin	t (LTP)												
UL 	Section 19	Township 23S	Range 29E	Lot	Feet 1980		m N/S UTH	Feet		From WES		Count		
Latitu	ude 288485	4			Longitu		3642			I		NAD 27		
02.2		•			1011		70 12							
Is this	s well the	defining v	vell for th	ie Horiz	zontal Sp	pacing	g Unit?	' []				
Is this	s well an	infill well?												
	ll is yes p ng Unit.	lease prov	ide API if	availab	ole, Opei	rator	Name	and v	vell n	umbe	r for I	Definir	ng well fo	r Horizontal
API#														
Ope	rator Nai	me:	1			Prop	perty N	lame						Well Number

KZ 06/29/2018



SECTION 24, TOWNSHIP 23 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP

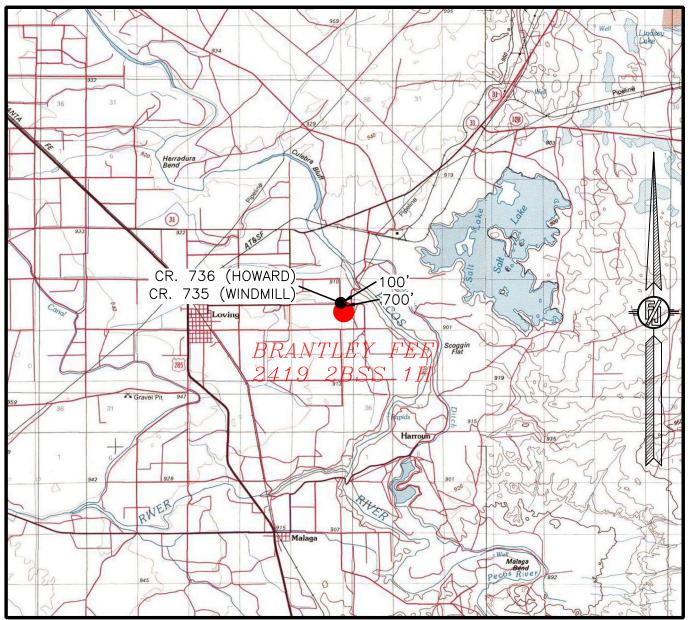


KAISER-FRANCIS OIL COMPANY
BRANTLEY FEE 2419 2BSS 1H
LOCATED 1756 FT. FROM THE SOUTH LINE
AND 284 FT. FROM THE WEST LINE OF
SECTION 24, TOWNSHIP 23 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 14, 2022

SURVEY NO. 9494

SECTION 24, TOWNSHIP 23 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

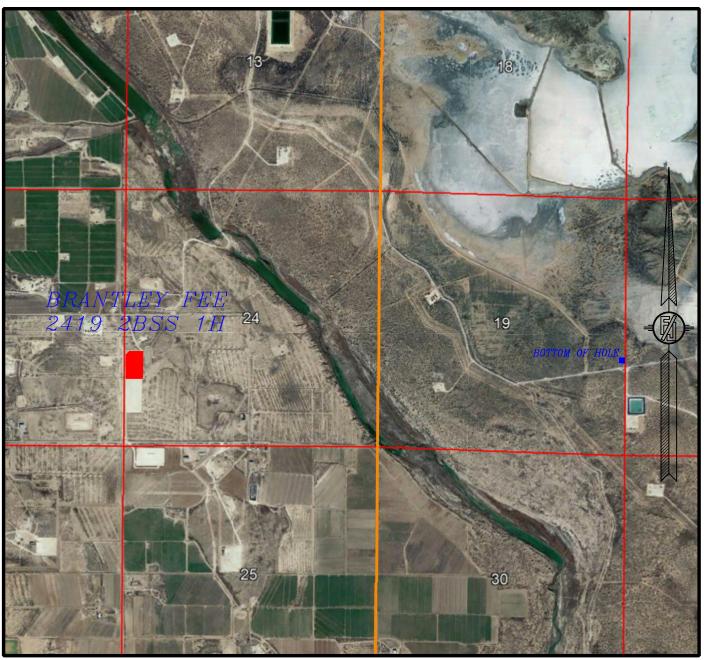
EAST OF LOVING, FROM THE INTERSECTION OF CR. 736 (G.R. HOWARD) & CR. 735 (WINDMILL), GO EAST ON CR. 736 APPROX. 100', TURN RIGHT (SOUTH) ON DIRT ROAD, CROSS CATTLE GUARD AND GO APPROX. 700' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

KAISER-FRANCIS OIL COMPANY
BRANTLEY FEE 2419 2BSS 1H
LOCATED 1756 FT. FROM THE SOUTH LINE
AND 284 FT. FROM THE WEST LINE OF
SECTION 24, TOWNSHIP 23 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 14, 2022

SURVEY NO. 9494

SECTION 24, TOWNSHIP 23 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH DEC. 2019

KAISER-FRANCIS OIL COMPANY
BRANTLEY FEE 2419 2BSS 1H
LOCATED 1756 FT. FROM THE SOUTH LINE
AND 284 FT. FROM THE WEST LINE OF
SECTION 24, TOWNSHIP 23 SOUTH,
RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 14, 2022

SURVEY NO. 9494

SECTION 24, TOWNSHIP 23 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



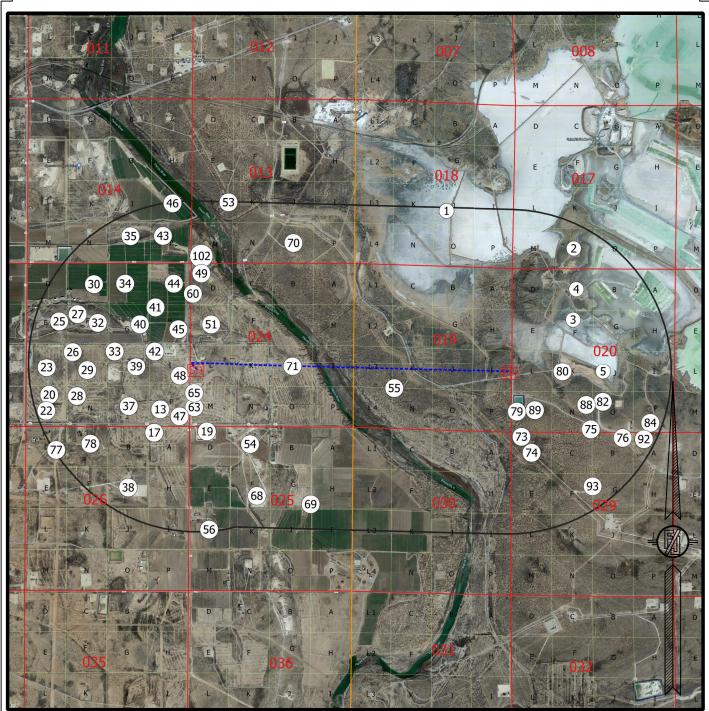
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH DEC. 2019

KAISER-FRANCIS OIL COMPANY
BRANTLEY FEE 2419 2BSS 1H
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RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 14, 2022

SURVEY NO. 9494

1-MILE WELLS



WELL DATA FROM NMOCD GIS - 8/31/22

SH SURFACE LOCATION

BH BOTTOM OF HOLE

(XX) WELLS WITHIN 1 MILE

----- WELL PATH
------ 1-MILE BOUNDARY

KAISER-FRANCIS OIL COMPANY
BRANTLEY FEE 2419 2BSS 1H
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RANGE 28 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 14, 2022

SURVEY NO. 9494

Permit 331602

Form APD Conditions

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
KAISER-FRANCIS OIL CO [12361]	30-015-53369
PO Box 21468	Well:
Tulsa, OK 74121146	BRANTLEY FEE 2419 2BSS #001H

OCD	Condition
Reviewer	
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Kaiser-Fr	ancis Oil C	Company	OGRID: _12	2361		Date: _01	_04_/2023
II. Type: ☒ Original ☐	Amendmen	at due to □ 19.15.27.9	9.D(6)(a) NMAC	C □ 19.15.27.9.D	(6)(b) NM	AC □ Other	
If Other, please describe:							
III. Well(s): Provide the be recompleted from a si					wells prop	osed to be d	rilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticip Gas Mo		Anticipated Produced Water BBL/D
Brantley Fee 2419 2BSS 1H		L- Sec 24- T23S- R28E	1756 FSL 284 FW	L 1800	3000)	2000
Brantley Fee 2419 2BSS 2H		L- Sec 24- T23S- R28E	1736 FSL 284 FW		3000		2000
V. Anticipated Schedule proposed to be recompleted. Well Name					1]	Initial Flow Back Date	First Production Date
Brantley Fee 2419 2BSS 1H		3/1/23	3/20/23	3/27/23		4/11/23	4/11/23
Brantley Fee 2419 2BSS 2H		3/21/23	4/9/23	4/16/23		5/1/23	5/1/23
VII. Operational Pract Subsection A through F of VIII. Best Management during active and planned	ices: Atta of 19.15.27.8 t Practices:	ach a complete descr 3 NMAC.	iption of the act	ions Operator wil	II take to c	comply with	the requirements of

Kaiser-Francis Oil Company Natural Gas Management Plan

Plan Description

VI. Separation Equipment

Separation equipment will be designed for maximum anticipated throughput and pressure to minimize waste.

VII. Operational Practices

A. VENTING AND FLARING OF NATURAL GAS

Kaiser-Francis Oil Company (KFOC) will maximize the recovery of natural gas by minimizing the waste of natural gas through venting and flaring during drilling, completion, and production operations as outlined in 19.15.27.8 NMAC. KFOC will flare rather than vent natural gas except when flaring is technically infeasible or would pose a safety risk and venting is a safer alternative than flaring. KFOC will ensure well(s) are connected to a natural gas gathering system with sufficient capacity to transport natural gas.

B. Venting and flaring during drilling operations

KFOC will combust natural gas brought to the surface during drilling operations. A properly sized flare stack will be located at a minimum of 100 feet from the nearest surface hole location. In case of emergency or malfunction, KFOC will report natural gas volumes, vented or flared.

C. Venting and flaring during completion or recompletion operations

During completion operations, KFOC will flare natural gas brought to the surface and commence operation of a separator once technically feasible. Produced natural gas from separation equipment will be sold. If natural gas does not meet gathering pipeline quality specifications, KFOC will flare for no more than 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner.

D. Venting and flaring during production operations

KFOC will not vent or flare natural gas during production, except for provisions defined by 19.15.27.8.D (1) through (4). KFOC will report natural gas volumes, vented or flared, appropriately.

E. Performance Standards

KFOC will comply with performance standards outlined in 19.15.27.8.E to minimize waste. Separation equipment will be designed for maximum anticipated throughput and pressure to minimize waste. Any permanent storage tank associated with production operations that is

routed to a flare or control device will be equipped with an automatic gauging system that reduces the venting of natural gas. KFOC will combust natural gas in a flare stack that is properly sized and designed to ensure proper combustion efficiency. Flare stacks will be equipped with an automatic ignitor or continuous pilot. KFOC will conduct an AVO inspection on the frequency specified in Subsection D of 19.15.27.8 NMAC. All emergencies will be resolved as quickly and safely as feasible.

F. Measurement or estimation of vented or flared natural gas

KFOC will measure or estimate natural gas that is vented, flared, or beneficially used during drilling, completion, and production operations. Equipment will be installed to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility, authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60,000 cubic feet of natural gas. Measuring equipment will conform to an industry standard. Where measuring is not feasible, volumes will be estimated.

VIII. Best Management Practices

During active and planned maintenance, venting will be limited to the depressurization of the equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut-in to eliminate venting. During VRU maintenance, gas normally routed to the VRU will be flared.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

🗵 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural	gas gathering system \square wil	l □ will not have capac	city to gather 1009	% of the anticipated n	atural gas
production volume from the well	prior to the date of first prod	uction.			

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or portion, or	of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well	

\neg	A 441- 4	O +?	1	4	14:	:	4 - 41 - 1	sed line pressure	_
- 1	Апаси С	Operator	s nian	to manage	production	in response	to the increa	isea iine pressiira	e.

XIV. Confidentiality:	□ Operator asserts	confidentiality	pursuant to	Section	71-2-8 NMSA	1978 for the	information	provided in
Section 2 as provided in	Paragraph (2) of Su	bsection D of 19	9.15.27.9 NN	AC, and	d attaches a full	description of	f the specific	information
for which confidentiality	is asserted and the	basis for such a	ssertion.					

(i)

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Aaron Daniels
Title: EHS Manager
E-mail Address: aarond@kfoc.net
Date: 1/27/2023
Phone: 918-491-4352
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



KAISER FRANCIS OIL CO.

EDDY COUNTY, N.M. 83 SEC 24-T23S-R28E BRANTLEY FEE 2419 2BSS #1H

ORIGINAL WELLPATH

Plan: PRELIM PLAN 1, REV1

Standard Planning Report

10 January, 2023

Kaiser-Francis Oil Company

Planning Report

Kaiser-Francis Oil Company

1 - EDM Production Database: Company:

KAISER FRANCIS OIL CO.

Local Co-ordinate Reference:

Well BRANTLEY FEE 2419 2BSS #1H 2997.3' + 24' @ 3021.30usft (Original Well

Elev)

Project: EDDY COUNTY, N.M. 83 MD Reference:

Site:

TVD Reference:

2997.3' + 24' @ 3021.30usft (Original Well Elev)

SEC 24-T23S-R28E

North Reference: Grid

Well: Wellbore:

ORIGINAL WELLPATH PRELIM PLAN 1, REV1

BRANTLEY FEE 2419 2BSS #1H

Survey Calculation Method:

Minimum Curvature

Project

Design:

EDDY COUNTY, N.M. 83

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Map Zone:

Site

Well

Wellbore

SEC 24-T23S-R28E

Site Position: From:

Northing: Мар Easting:

467,096.60 usft Latitude: 629,056.70 usft Longitude:

32.28380362 -104.04947996

Position Uncertainty:

0.00 usft Slot Radius: 13-3/16 "

Well Position

+N/-S 0.00 usft +E/-W 0.00 usft

BRANTLEY FEE 2419 2BSS #1H

468,847.95 usft Northing: Easting: 629,303.78 usft Latitude: Longitude:

32 28861601 -104.04866540

Position Uncertainty

0.50 usft

Wellhead Elevation:

usft **Ground Level:** 2.997.30 usft

Grid Convergence:

0.15 °

ORIGINAL WELLPATH

PRELIM PLAN 1, REV1

Sample Date Declination Dip Angle Field Strength Magnetics **Model Name** (°) (°) (nT) 47.322.28247046 IGRF2020 1/10/2023 6.59 59.84

Design Audit Notes:

Version:

Phase:

(usft)

0.00

PLAN

Tie On Depth:

0.00

91.10

Vertical Section:

Depth From (TVD)

+N/-S (usft)

+E/-W (usft)

0.00

Direction (°)

Plan Survey Tool Program

1/10/2023 Date

Depth From Depth To (usft) (usft)

Survey (Wellbore)

Tool Name MWD+HRGM

0.00

Remarks

0.00

18,370.54 PRELIM PLAN 1, REV1 (ORIGIN

OWSG MWD + HRGM

Planning Report

Kaiser-Francis Oil Company

1 - EDM Production Database: Company:

KAISER FRANCIS OIL CO.

EDDY COUNTY, N.M. 83

Site: SEC 24-T23S-R28E

Project:

Well: BRANTLEY FEE 2419 2BSS #1H

Wellbore: ORIGINAL WELLPATH Design: PRELIM PLAN 1, REV1 Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference:

North Reference:

Well BRANTLEY FEE 2419 2BSS #1H 2997.3' + 24' @ 3021.30usft (Original Well

2997.3' + 24' @ 3021.30usft (Original Well

Elev)

Grid

an Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,775.00	0.00	0.00	2,775.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,977.30	4.05	313.15	2,977.13	4.88	-5.21	2.00	2.00	0.00	313.15	
7,416.64	4.05	313.15	7,405.41	219.12	-233.71	0.00	0.00	0.00	0.00	
7,618.94	0.00	0.00	7,607.54	224.00	-238.92	2.00	-2.00	0.00	180.00	
7,718.94	0.00	0.00	7,707.54	224.00	-238.92	0.00	0.00	0.00	0.00	
8,468.94	90.00	91.10	8,185.01	214.86	238.46	12.00	12.00	12.15	91.10	
18,370.78	90.00	91.10	8,185.00	25.25	10,138.48	0.00	0.00	0.00	0.00	BF 2BSS 1H PBHL:

Kaiser-Francis Oil Company



Planning Report

1 - EDM Production

KAISER FRANCIS OIL CO.

Project:

Database:

Company:

EDDY COUNTY, N.M. 83

Site: Well: SEC 24-T23S-R28E

Well:

BRANTLEY FEE 2419 2BSS #1H

Wellbore: Design: ORIGINAL WELLPATH PRELIM PLAN 1, REV1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BRANTLEY FEE 2419 2BSS #1H

2997.3' + 24' @ 3021.30usft (Original Well

Elev)

2997.3' + 24' @ 3021.30usft (Original Well

Elev) Grid

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,775.00	0.00	0.00	2,775.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build			,						
2,800.00	0.50	313.15	2,800.00	0.07	-0.08	-0.08	2.00	2.00	0.00
2,900.00	2.50	313.15	2,899.96	1.86	-1.99	-2.02	2.00	2.00	0.00
2,977.30	4.05	313.15	2,977.13	4.88	-5.21	-5.30	2.00	2.00	0.00
Start 4439.	35 hold at 2977.30	0 MD							
3,000.00	4.05	313.15	2,999.78	5.98	-6.38	-6.49	0.00	0.00	0.00
3,100.00	4.05	313.15	3,099.53	10.80	-11.52	-11.73	0.00	0.00	0.00
3,200.00	4.05	313.15	3,199.28	15.63	-16.67	-16.97	0.00	0.00	0.00
3,300.00	4.05	313.15	3,299.03	20.46	-21.82	-22.21	0.00	0.00	0.00
3,400.00	4.05	313.15	3,398.78	25.28	-26.97	-27.45	0.00	0.00	0.00
3,500.00	4.05	313.15	3,498.53	30.11	-32.11	-32.69	0.00	0.00	0.00
3,600.00	4.05	313.15	3,598.28	34.93	-37.26	-37.92	0.00	0.00	0.00
3,700.00	4.05	313.15	3,698.03	39.76	-42.41	-43.16	0.00	0.00	0.00
3,800.00	4.05	313.15	3,797.78	44.59	-47.55	-48.40	0.00	0.00	0.00
3,900.00	4.05	313.15	3,897.53	49.41	-47.55 -52.70	-46.40 -53.64	0.00	0.00	0.00
4,000.00	4.05	313.15	3,997.28	54.24	-52.70 -57.85	-58.88	0.00	0.00	0.00
			,						
4,100.00 4,200.00	4.05 4.05	313.15 313.15	4,097.03 4,196.78	59.06 63.89	-63.00 -68.14	-64.12 -69.36	0.00 0.00	0.00 0.00	0.00 0.00
4,300.00	4.05	313.15	4,296.54	68.71 72.54	-73.29	-74.60	0.00	0.00	0.00
4,400.00	4.05	313.15	4,396.29	73.54	-78.44	-79.84	0.00	0.00	0.00
4,500.00	4.05	313.15	4,496.04	78.37	-83.59	-85.07	0.00	0.00	0.00
4,600.00	4.05	313.15	4,595.79	83.19	-88.73	-90.31	0.00	0.00	0.00
4,700.00	4.05	313.15	4,695.54	88.02	-93.88	-95.55	0.00	0.00	0.00

Kaiser-Francis Oil Company



Planning Report

1 - EDM Production Database: Company:

KAISER FRANCIS OIL CO.

Project:

EDDY COUNTY, N.M. 83

Site: Well: SEC 24-T23S-R28E BRANTLEY FEE 2419 2BSS #1H

Wellbore: ORIGINAL WELLPATH Design: PRELIM PLAN 1, REV1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BRANTLEY FEE 2419 2BSS #1H

2997.3' + 24' @ 3021.30usft (Original Well

Elev)

2997.3' + 24' @ 3021.30usft (Original Well

Elev) Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	4.05	313.15	4,795.29	92.84	-99.03	-100.79	0.00	0.00	0.00
4,900.00	4.05	313.15	4,895.04	97.67	-104.17	-106.03	0.00	0.00	0.00
5,000.00	4.05	313.15	4,994.79	102.49	-109.32	-111.27	0.00	0.00	0.00
5,100.00	4.05	313.15	5,094.54	107.32	-114.47	-116.51	0.00	0.00	0.00
5,200.00	4.05	313.15	5,194.29	112.15	-119.62	-121.75	0.00	0.00	0.00
5,300.00	4.05	313.15	5,294.04	116.97	-124.76	-126.99	0.00	0.00	0.00
5,400.00	4.05	313.15	5,393.79	121.80	-129.91	-132.22	0.00	0.00	0.00
5,500.00	4.05	313.15	5,493.54	126.62	-135.06	-137.46	0.00	0.00	0.00
5,600.00	4.05	313.15	5,593.30	131.45	-140.20	-142.70	0.00	0.00	0.00
5,700.00	4.05	313.15	5,693.05	136.28	-145.35	-147.94	0.00	0.00	0.00
5,800.00	4.05	313.15	5,792.80	141.10	-150.50	-153.18	0.00	0.00	0.00
5,900.00	4.05	313.15	5,892.55	145.93	-155.65	-158.42	0.00	0.00	0.00
6,000.00	4.05	313.15	5,992.30	150.75	-160.79	-163.66	0.00	0.00	0.00
6,100.00	4.05	313.15	6,092.05	155.58	-165.94	-168.90	0.00	0.00	0.00
6,200.00	4.05	313.15	6,191.80	160.40	-171.09	-174.14	0.00	0.00	0.00
6,300.00	4.05	313.15	6.291.55	165.23	-176.23	-179.37	0.00	0.00	0.00
,	4.05		6,291.55 6,391.30	170.06	-176.23 -181.38	-179.37 -184.61	0.00	0.00	0.00
6,400.00		313.15	,						
6,500.00	4.05	313.15	6,491.05	174.88	-186.53	-189.85	0.00	0.00	0.00
6,600.00	4.05	313.15	6,590.80	179.71	-191.68	-195.09	0.00	0.00	0.00
6,700.00	4.05	313.15	6,690.55	184.53	-196.82	-200.33	0.00	0.00	0.00
6,800.00	4.05	313.15	6,790.31	189.36	-201.97	-205.57	0.00	0.00	0.00
6,900.00	4.05	313.15	6,890.06	194.18	-207.12	-210.81	0.00	0.00	0.00
7,000.00	4.05	313.15	6,989.81	199.01	-212.27	-216.05	0.00	0.00	0.00
7,100.00	4.05	313.15	7,089.56	203.84	-217.41	-221.29	0.00	0.00	0.00
7,200.00	4.05	313.15	7,189.31	208.66	-222.56	-226.52	0.00	0.00	0.00
7,300.00	4.05	313.15	7,289.06	213.49	-227.71	-231.76	0.00	0.00	0.00
7,400.00	4.05	313.15	7,388.81	218.31	-232.85	-237.00	0.00	0.00	0.00
7,416.64	4.05	313.15	7,405.41	219.12	-233.71	-237.87	0.00	0.00	0.00
Start Drop -	2.00								
7,500.00	2.38	313.15	7,488.63	222.31	-237.12	-241.34	2.00	-2.00	0.00
7,600.00	0.38	313.15	7,588.60	223.96	-238.87	-243.13	2.00	-2.00	0.00
	0.00	0.00			-238.92	-243.18	2.00	-2.00	0.00
7,618.94	0.00 hold at 7618.94		7,607.54	224.00	-238.92	-243.18	2.00	-2.00	0.00
7,700.00	0.00	0.00	7,688.60	224.00	-238.92	-243.18	0.00	0.00	0.00
,			,						
7,718.94	0.00 2.00 TFO 91.10	0.00	7,707.54	224.00	-238.92	-243.18	0.00	0.00	0.00
7,725.00	0.73	91.10	7,713.60	224.00	-238.88	-243.14	12.00	12.00	0.00
7,750.00	3.73	91.10	7,713.50	223.98	-237.91	-243.14	12.00	12.00	0.00
,									
7,775.00	6.73	91.10	7,763.47	223.94	-235.63	-239.89	12.00	12.00	0.00
7,800.00	9.73	91.10	7,788.21	223.87	-232.06	-236.31	12.00	12.00	0.00
7,825.00	12.73	91.10	7,812.73	223.78	-227.19	-231.44	12.00	12.00	0.00
7,850.00	15.73	91.10	7,836.96	223.66	-221.05	-225.30	12.00	12.00	0.00
7,875.00	18.73	91.10	7,860.84	223.52	-213.65	-217.90	12.00	12.00	0.00
7,900.00	21.73	91.10	7,884.29	223.35	-205.00	-209.25	12.00	12.00	0.00
7,925.00	24.73	91.10	7,907.26	223.16	-195.15	-199.40	12.00	12.00	0.00
7,950.00	27.73	91.10	7,929.69	222.95	-184.10	-188.35	12.00	12.00	0.00
7,975.00	30.73	91.10	7,951.50	222.72	-171.90	-176.14	12.00	12.00	0.00
8,000.00	33.73	91.10	7,972.65	222.46	-158.57	-162.81	12.00	12.00	0.00
8,025.00	36.73	91.10	7,993.07	222.19	-144.16	-148.39	12.00	12.00	0.00
8,050.00	39.73	91.10	8,012.70	221.89	-128.69	-140.39	12.00	12.00	0.00
8,075.00	42.73	91.10	8,031.50	221.69	-112.22	-132.93	12.00	12.00	0.00
0,075.00	45.73	91.10	0,031.00	ZZ 1.01	-112.22 -94.79	-110.43	12.00	12.00	0.00

Planning Report

Kaiser-Francis Oil Company

1 - EDM Production Database: Company:

KAISER FRANCIS OIL CO.

Project:

EDDY COUNTY, N.M. 83

Site: Well: SEC 24-T23S-R28E

BRANTLEY FEE 2419 2BSS #1H

Wellbore: ORIGINAL WELLPATH Design: PRELIM PLAN 1, REV1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BRANTLEY FEE 2419 2BSS #1H

2997.3' + 24' @ 3021.30usft (Original Well

2997.3' + 24' @ 3021.30usft (Original Well

Elev) Grid

lanned	Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	8,125.00	48.73	91.10	8,066.39	220.89	-76.44	-80.67	12.00	12.00	0.00
	8,150.00	51.73	91.10	8,082.38	220.52	-57.23	-61.46	12.00	12.00	0.00
	8,175.00	54.73	91.10	8,097.35	220.14	-37.21	-41.43	12.00	12.00	0.00
	8,200.00	57.73	91.10	8,111.24	219.74	-16.44	-20.65	12.00	12.00	0.00
	8,225.00	60.73	91.10	8,124.03	219.33	5.04	0.82	12.00	12.00	0.00
	8,250.00	63.73	91.10	8,135.68	218.90	27.15	22.94	12.00	12.00	0.00
	8,275.00	66.73	91.10	8,146.16	218.47	49.84	45.64	12.00	12.00	0.00
	8,300.00	69.73	91.10	8,155.43	218.03	73.05	68.85	12.00	12.00	0.00
	8,325.00	72.73	91.10	8,163.47	217.57	96.71	92.52	12.00	12.00	0.00
	8,350.00	75.73	91.10	8,170.27	217.11	120.77	116.58	12.00	12.00	0.00
	8,375.00	78.73	91.10	8,175.79	216.64	145.14	140.95	12.00	12.00	0.00
	8,400.00	81.73	91.10	8,180.04	216.17	169.77	165.59	12.00	12.00	0.00
	8,425.00	84.73	91.10	8,182.98	215.70	194.59	190.41	12.00	12.00	0.00
	8,450.00	87.73	91.10	8,184.63	215.22	219.53	215.35	12.00	12.00	0.00
	8,468.94	90.00	91.10	8,185.01	214.86	238.46	234.29	12.00	12.00	0.00
	Start 9901.84	1 hold at 8468.94	1 MD							
	8,500.00	90.00	91.10	8,185.00	214.26	269.51	265.35	0.00	0.00	0.00
	0.000.00	00.00	04.40	0.405.00	040.05	200.40	205.25	0.00	0.00	0.00
	8,600.00	90.00	91.10	8,185.00	212.35	369.49	365.35	0.00	0.00	0.00
	8,700.00	90.00	91.10	8,185.00	210.43	469.48	465.35	0.00	0.00	0.00
	8,800.00	90.00	91.10	8,185.00	208.52	569.46	565.35	0.00	0.00	0.00
	8,900.00	90.00	91.10	8,185.00	206.60	669.44	665.35	0.00	0.00	0.00
	9,000.00	90.00	91.10	8,185.00	204.69	769.42	765.35	0.00	0.00	0.00
	9,100.00	90.00	91.10	8,185.00	202.77	869.40	865.35	0.00	0.00	0.00
	9,200.00	90.00	91.10	8,185.00	200.86	969.38	965.35	0.00	0.00	0.00
	9,300.00	90.00	91.10	8,185.00	198.94	1,069.37	1,065.35	0.00	0.00	0.00
	9,400.00	90.00	91.10	8,185.00	197.03	1,169.35	1,165.35	0.00	0.00	0.00
	9,500.00	90.00	91.10	8,185.00	195.11	1,269.33	1,265.35	0.00	0.00	0.00
	9,600.00	90.00	91.10	8,185.00	193.20	1,369.31	1,365.35	0.00	0.00	0.00
	9,700.00	90.00	91.10	8,185.00	191.28	1,469.29	1,465.35	0.00	0.00	0.00
	9,800.00	90.00	91.10	8,185.00	189.37	1,569.27	1,565.35	0.00	0.00	0.00
	9,900.00	90.00	91.10	8,185.00	187.45	1,669.26	1,665.35	0.00	0.00	0.00
	10,000.00	90.00	91.10	8,185.00	185.54	1,769.24	1,765.35	0.00	0.00	0.00
	10,100.00	90.00	91.10	8,185.00	183.62	1,869.22	1,865.35	0.00	0.00	0.00
	10,100.00	90.00	91.10	8,185.00	181.71	1,969.20	1,965.35	0.00	0.00	0.00
	10,200.00	90.00	91.10	8,185.00	179.79	2,069.18	2,065.35	0.00	0.00	0.00
	10,300.00	90.00	91.10	8,185.00	179.79	2,009.16	2,165.35	0.00	0.00	0.00
	10,400.00	90.00	91.10	8,185.00	177.86	2,169.16	2,165.35	0.00	0.00	0.00
							•			
	10,600.00	90.00	91.10	8,185.00	174.05	2,369.13	2,365.35	0.00	0.00	0.00
	10,700.00	90.00	91.10	8,185.00	172.14	2,469.11	2,465.35	0.00	0.00	0.00
	10,800.00	90.00	91.10	8,185.00	170.22	2,569.09	2,565.35	0.00	0.00	0.00
	10,900.00	90.00	91.10	8,185.00	168.31	2,669.07	2,665.35	0.00	0.00	0.00
	11,000.00	90.00	91.10	8,185.00	166.39	2,769.05	2,765.35	0.00	0.00	0.00
	11,100.00	90.00	91.10	8,185.00	164.48	2,869.04	2,865.35	0.00	0.00	0.00
	11,100.00	90.00	91.10	8,185.00	162.56	2,069.04	2,065.35	0.00	0.00	0.00
	11,200.00	90.00	91.10	8,185.00	162.56	3,069.00	3,065.35	0.00	0.00	0.00
				8,185.00 8,185.00		,				
	11,400.00	90.00	91.10		158.73	3,168.98	3,165.35	0.00	0.00	0.00
	11,500.00	90.00	91.10	8,185.00	156.82	3,268.96	3,265.35	0.00	0.00	0.00
	11,600.00	90.00	91.10	8,185.00	154.90	3,368.94	3,365.35	0.00	0.00	0.00
	11,700.00	90.00	91.10	8,185.00	152.99	3,468.93	3,465.35	0.00	0.00	0.00
	11,800.00	90.00	91.10	8,185.00	151.07	3,568.91	3,565.35	0.00	0.00	0.00
	11,900.00	90.00	91.10	8,185.00	149.16	3,668.89	3,665.35	0.00	0.00	0.00
	12,000.00	90.00	91.10	8,185.00	147.24	3,768.87	3,765.35	0.00	0.00	0.00

Kaiser-Francis Oil Company



Database: Company:

Planning Report

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Well BRANTLEY FEE 2419 2BSS #1H 2997.3' + 24' @ 3021.30usft (Original Well

Elev)

2997.3' + 24' @ 3021.30usft (Original Well

Elev)

Grid Minimum Curvature

Project: EDDY COUNTY, N.M. 83

Site: SEC 24-T23S-R28E

Well: BRANTLEY FEE 2419 2BSS #1H

1 - FDM Production

KAISER FRANCIS OIL CO.

Wellbore: Design: PRELIM PLAN 1, REV1

Survey Calculation Method: ORIGINAL WELLPATH

Planned Survey Measured Vertical Vertical Dogleg Build Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W Section Rate Rate Rate (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) (°) (usft) (usft) 12,100.00 90.00 91.10 8,185.00 145.33 3,868.85 3,865.35 0.00 0.00 0.00 90.00 8.185.00 3.968.83 3.965.35 0.00 0.00 0.00 12.200.00 91.10 143.41 12,300.00 90.00 8,185.00 141.50 4,068.82 4,065.35 0.00 0.00 0.00 91.10 90.00 8 185 00 139 58 4 165 35 0.00 0.00 12 400 00 91 10 4 168 80 0.00 12,500.00 90.00 91.10 8,185.00 137.67 4,268.78 4,265.35 0.00 0.00 0.00 12,600.00 90.00 91.10 8,185.00 135.75 4,368.76 4,365.35 0.00 0.00 0.00 12.700.00 90.00 133.84 4.468.74 0.00 0.00 91.10 8.185.00 4.465.35 0.00 12,800.00 90.00 91.10 8,185.00 131.92 4,568.72 4,565.35 0.00 0.00 0.00 12,900.00 90.00 91.10 8,185.00 130.01 4,668.71 4,665.35 0.00 0.00 0.00 90.00 13.000.00 91.10 8.185.00 128 09 4.768.69 4,765.35 0.00 0.00 0.00 13,100.00 90.00 91 10 8,185.00 126 18 4,868.67 4,865.35 0.00 0.00 0.00 4,965.35 0.00 0.00 13,200.00 90.00 91.10 8,185.00 124.26 4.968.65 0.00 0.00 13.300.00 90.00 91 10 8 185 00 122 35 5 068 63 5 065 35 0.00 0.00 13,400.00 90.00 91.10 8,185.00 120.43 5,168.61 5,165.35 0.00 0.00 0.00 13,500.00 5,265.35 0.00 0.00 90.00 91.10 8.185.00 118.52 5.268.60 0.00 13 600 00 90.00 91 10 8 185 00 116 60 5.368.58 5 365 35 0.00 0.00 0.00 13,700.00 90.00 91.10 8,185.00 114.69 5,468.56 5,465.35 0.00 0.00 0.00 13,800.00 90.00 91.10 8,185.00 112.77 5,568.54 5,565.35 0.00 0.00 0.00 13.900.00 90.00 91.10 8.185.00 110.86 5.668.52 5.665.35 0.00 0.00 0.00 14,000.00 90.00 91.10 8,185.00 108.94 5,768.50 5,765.35 0.00 0.00 0.00 5,868.49 0.00 14,100.00 90.00 91 10 8,185.00 107 03 5,865.35 0.00 0.00 14.200.00 90.00 91.10 8.185.00 105.11 5.968.47 5.965.35 0.00 0.00 0.00 14,300.00 90.00 8,185.00 103.20 6,068.45 6,065.35 0.00 0.00 91.10 0.00 14 400 00 90.00 91 10 8 185 00 101 29 6 168 43 6 165 35 0.00 0.00 0.00 14,500.00 90.00 91.10 8,185.00 99.37 6,268.41 6,265.35 0.00 0.00 0.00 14,600.00 90.00 91.10 8,185.00 97.46 6,368.39 6,365.35 0.00 0.00 0.00 14.700.00 90.00 91.10 8.185.00 95.54 6.468.38 6.465.35 0.00 0.00 0.00 14,800.00 90.00 91.10 8,185.00 93.63 6.568.36 6,565.35 0.00 0.00 0.00 14,900.00 90.00 91.10 8,185.00 91.71 6,668.34 6,665.35 0.00 0.00 0.00 15,000.00 90.00 91.10 8,185.00 89.80 6,768.32 6,765.35 0.00 0.00 0.00 15,100.00 90.00 8,185.00 87 88 6,868.30 6,865.35 0.00 0.00 0.00 91.10 15,200.00 90.00 91.10 8,185.00 85.97 6,968.28 6,965.35 0.00 0.00 0.00 15.300.00 90.00 91 10 8 185 00 84 05 7 068 27 7 065 35 0.00 0.00 0.00 15,400.00 90.00 91.10 8,185.00 82.14 7,168.25 7,165.35 0.00 0.00 0.00 80.22 0.00 0.00 15.500.00 90.00 91.10 8.185.00 7.268.23 7.265.35 0.00 15.600.00 90.00 8.185.00 7.368.21 7.365.35 0.00 0.00 0.00 91 10 78 31 15,700.00 90.00 91.10 8,185.00 76.39 7,468.19 7,465.35 0.00 0.00 0.00 15,800.00 90.00 91.10 8,185.00 74.48 7,568.17 7,565.35 0.00 0.00 0.00 7,665.35 15.900.00 90.00 91 10 8.185.00 72 56 7.668.16 0.00 0.00 0.00 16,000.00 90.00 91.10 8,185.00 70.65 7,768.14 7,765.35 0.00 0.00 0.00 16,100.00 90.00 91.10 8,185.00 68.73 7,868.12 7,865.35 0.00 0.00 0.00 7.968.10 16.200.00 90.00 8.185.00 66 82 7.965.35 0.00 0.00 91.10 0.00 16,300.00 90.00 91.10 8,185.00 64.90 8,068.08 8,065.35 0.00 0.00 0.00 16 400 00 90.00 8 185 00 62 99 8 165 35 0.00 0.00 91 10 8 168 06 0.00 16,500.00 90.00 91.10 8,185.00 61.07 8,268.05 8,265.35 0.00 0.00 0.00 16,600.00 90.00 91.10 8,185.00 59.16 8,368.03 8,365.35 0.00 0.00 0.00 90.00 8.468.01 0.00 0.00 16.700.00 91.10 8.185.00 57.24 8.465.35 0.00 16,800.00 90.00 91.10 8,185.00 55.33 8,567.99 8,565.35 0.00 0.00 0.00 16,900.00 90.00 91.10 8,185.00 53.41 8,667.97 8,665.35 0.00 0.00 0.00 17,000.00 90.00 91.10 8,185.00 51.50 8,767.95 8,765.35 0.00 0.00 0.00 90.00 49 58 8,865.35 0.00 0.00 0.00 17,100,00 91 10 8.185.00 8 867 94 17,200.00 90.00 91.10 8,185.00 47.67 8,967.92 8,965.35 0.00 0.00 0.00

NIRECTIONAL P

Planning Report

Kaiser-Francis Oil Company

Database: 1 - EDM Production

Company: KAISER FRANCIS OIL CO.

Project:

EDDY COUNTY, N.M. 83

Site: SEC 24-T23S-R28E

Well: BRANTLEY FEE 2419 2BSS #1H

Wellbore: ORIGINAL WELLPATH
Design: PRELIM PLAN 1, REV1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BRANTLEY FEE 2419 2BSS #1H

2997.3' + 24' @ 3021.30usft (Original Well

Elev)

2997.3' + 24' @ 3021.30usft (Original Well

Elev) Grid

anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,300.00	90.00	91.10	8,185.00	45.75	9,067.90	9,065.35	0.00	0.00	0.00
17,400.00	90.00	91.10	8,185.00	43.84	9,167.88	9,165.35	0.00	0.00	0.00
17,500.00	90.00	91.10	8,185.00	41.92	9,267.86	9,265.35	0.00	0.00	0.00
17,600.00	90.00	91.10	8,185.00	40.01	9,367.84	9,365.35	0.00	0.00	0.00
17,700.00	90.00	91.10	8,185.00	38.09	9,467.83	9,465.35	0.00	0.00	0.00
17,800.00	90.00	91.10	8,185.00	36.18	9,567.81	9,565.35	0.00	0.00	0.00
17,900.00	90.00	91.10	8,185.00	34.26	9,667.79	9,665.35	0.00	0.00	0.00
18,000.00	90.00	91.10	8,185.00	32.35	9,767.77	9,765.35	0.00	0.00	0.00
18,100.00	90.00	91.10	8,185.00	30.44	9,867.75	9,865.35	0.00	0.00	0.00
18,200.00	90.00	91.10	8,185.00	28.52	9,967.73	9,965.35	0.00	0.00	0.00
18,300.00	90.00	91.10	8,185.00	26.61	10,067.72	10,065.35	0.00	0.00	0.00
18,370.78	90.00	91.10	8,185.00	25.25	10,138.48	10,136.13	0.00	0.00	0.00
TD at 18370.7	78								

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BF 2BSS 1H KOP: 1980 - plan misses target of a point	0.00 center by 0.80	0.00 Ousft at 7618	7,607.54 .94usft MD (223.20 7607.54 TVD	-238.92 , 224.00 N, -23	469,071.15 88.92 E)	629,064.86	32.28923129	-104.04943665
BF 2BSS 1H PBHL: 198 - plan hits target cent - Point	0.00 ter	0.00	8,185.00	25.25	10,138.48	468,873.20	639,442.26	32.28860719	-104.01585640

Casing Points							
	Measured	Vertical			Casing	Hole	
	Depth	Depth			Diameter	Diameter	
	(usft)	(usft)		Name	(")	(")	
	18,370.79		20" Casing		20	24	

Plan Annotations						
N	leasured	Vertical	Local Coord	dinates		
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
	2,775.00	2,775.00	0.00	0.00	Start Build 2.00	
	2,977.30	2,977.13	4.88	-5.21	Start 4439.35 hold at 2977.30 MD	
	7,416.64	7,405.41	219.12	-233.71	Start Drop -2.00	
	7,618.94	7,607.54	224.00	-238.92	Start 100.00 hold at 7618.94 MD	
	7,718.94	7,707.54	224.00	-238.92	Start DLS 12.00 TFO 91.10	
	8,468.94	8,185.01	214.86	238.46	Start 9901.84 hold at 8468.94 MD	
	18,370.78	8,185.00	25.25	10,138.48	TD at 18370.78	