

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: ☒ DRILL ☐ REENTER
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone

5. Lease Serial No.
NMLC0063798

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
BELL LAKE / NMNM068292X

8. Lease Name and Well No.
BELL LAKE UNIT SOUTH
205H

2. Name of Operator
KAISER FRANCIS OIL COMPANY (12361)

9. API Well No.
130-024-46621 (98264)

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

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

10. Field and Pool, or Exploratory
BELL LAKE / BONE SPRING SOUTH

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface NESE / 2519 FSL / 1286 FEL / LAT 32.246272 / LONG -103.521681

At proposed prod. zone SWSE / 330 FSL / 1410 FEL / LAT 32.225738 / LONG -103.522074

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 17 T24S / R33E / NMP

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

12. County or Parish
LEA

13. State
NM

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
1230 feet

16. No of acres in lease
2480

17. Spacing Unit dedicated to this well
240

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

19. Proposed Depth
10862 feet / 18706 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3630 feet

22. Approximate date work will start*
01/01/2019

23. Estimated duration
40 days

24. Attachments

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

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature
(Electronic Submission)

Name (Printed/Typed)
Melanie Wilson / Ph: (918)527-5260

Date
11/05/2018

Title
Regulatory Analyst

Approved by (Signature)
(Electronic Submission)

Name (Printed/Typed)
Cody Layton / Ph: (575)234-5959

Date
11/15/2019

Title
Assistant Field Manager Lands & Minerals

Office
CARLSBAD

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS
Approval Date: 11/15/2019



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

Application Data Report

12/16/2019

APD ID: 10400035202

Submission Date: 11/05/2018

Operator Name: KAISER FRANCIS OIL COMPANY

Well Number: 205H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400035202

Tie to previous NOS? Y

Submission Date: 11/05/2018

BLM Office: CARLSBAD

User: Melanie Wilson

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMLC0063798

Lease Acres: 2480

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? YES

Federal or Indian agreement: FEDERAL

Agreement number: NMNM068292X

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: KAISER FRANCIS OIL COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: KAISER FRANCIS OIL COMPANY

Operator Address: 6733 S. Yale Ave.

Zip: 74121

Operator PO Box: PO Box 21468

Operator City: Tulsa

State: OK

Operator Phone: (918)491-0000

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Number: 205H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BELL LAKE

Pool Name: BONE SPRING
SOUTH

Is the proposed well in an area containing other mineral resources? POTASH

Operator Name: KAISER FRANCIS OIL COMPANY

Well Number: 205H

Is the proposed well in an area containing other mineral resources? POTASH

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: BELL Number: 4

Well Class: HORIZONTAL

LAKE SOUTH PAD

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 25 Miles

Distance to nearest well: 20 FT

Distance to lease line: 1230 FT

Reservoir well spacing assigned acres Measurement: 240 Acres

Well plat: Bell_Lake_Unit_South_205H_Pymt_Receipt_20181105105919.pdf

Bell_Lake_Unit_South_205H_C102_20190425095702.pdf

Well work start Date: 01/01/2019

Duration: 40 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 17110951

Reference Datum:

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
SHL Leg #1	251 9	FSL	128 6	FEL	24S	33E	1	Aliquot NESE	32.24627 2	- 103.5216 81	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	363 0	0	0
KOP Leg #1	220 3	FNL	137 2	FEL	24S	33E	1	Aliquot SWNE	32.24780 8	- 103.5219 44	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 675 5	104 04	103 85

Operator Name: KAISER FRANCIS OIL COMPANY

Well Number: 205H

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
PPP Leg #1-1	0	FNL	141 0	FEL	24S	33E	12	Aliquot NWNE	32.23934 9	- 103.5219 93	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 063798	- 723 2	138 50	108 62
PPP Leg #1-2	260 0	FSL	137 0	FEL	24S	33E	1	Aliquot NWSE	32.24649 6	- 103.5219 52	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 723 2	111 54	108 62
EXIT Leg #1	330	FSL	141 0	FEL	24S	33E	12	Aliquot SWSE	32.22573 8	- 103.5220 74	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 063798	- 723 2	187 06	108 62
BHL Leg #1	330	FSL	141 0	FEL	24S	33E	12	Aliquot SWSE	32.22573 8	- 103.5220 74	LEA	NEW MEXI CO	NEW MEXI CO	F	NMLC0 063798	- 723 2	187 06	108 62



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

Drilling Plan Data Report

12/16/2019

APD ID: 10400035202

Submission Date: 11/05/2018

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH

Well Number: 205H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	—	3631	0	0		NONE	N
2	RUSTLER	2231	1400	1400		NONE	N
3	SALADO	1831	1800	1800		NONE	N
4	TOP SALT	1481	2150	2150		NONE	N
5	BASE OF SALT	-1419	5050	5050		NONE	N
6	LAMAR	-1669	5300	5300		NONE	N
7	BELL CANYON	-1819	5450	5450		NATURAL GAS,OIL	N
8	CHERRY CANYON	-2669	6300	6300		NATURAL GAS,OIL	N
9	BRUSHY CANYON	-4099	7730	7730		NATURAL GAS,OIL	N
10	BONE SPRING	-5239	8870	8870		NATURAL GAS,OIL	N
11	AVALON SAND	-5399	9030	9030		NATURAL GAS,OIL	N
12	BONE SPRING 1ST	-6369	10000	10000		NATURAL GAS,OIL	N
13	BONE SPRING 2ND	-6959	10590	10590		NATURAL GAS,OIL	Y
14	BONE SPRING LIME	-7419	11050	11050		NATURAL GAS,OIL	N

Section 2 - Blowout Prevention

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH

Well Number: 205H

Rating Depth: 15000

Requesting Variance? YES

Variance request: Flex hose variance requested.

Testing Procedure: BOP and BOPE shall be installed, used, maintained and tested in a manner necessary to assure well control and shall be in place and operational prior to drilling the surface casing shoe, unless otherwise stated by APD. The Annular shall be functionally operated at least weekly, and pipe and blind rams shall be activated each trip. The surface (13 3/8") BOP/BOPE pressure test will be made to hold 250 psi low, and 2000 psi high. The first intermediate (9 5/8") BOP/BOPE pressure tests will be made to hold 250 psi low, and 5,000 psi high before drilling out the 1st intermediate shoe. The production (5 1/2") BOP/BOPE pressure tests will be made to hold 250 psi low, and 5,000 psi high.

Choke Diagram Attachment:

Bell_Lake_Unit_South_205H_Choke_Manifold_20181104181242.pdf

BOP Diagram Attachment:

Bell_Lake_Unit_South_205H_BOP_20181104181252.pdf

Bell_Lake_Unit_South_205H_Wellhead_Diagram_20190425094805.pdf

Bell_Lake_Unit_South_205H_FlexHose_Data_20190425094826.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1350	0	1350			1350	J-55	54.5	ST&C	2.7	6.4	DRY	18.3	DRY	17.2
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5200	0	5200			5200	HCP-110	40	LT&C	1.2	2.3	DRY	4.8	DRY	4.8
3	PRODUCTION	8.5	5.5	NEW	API	N	0	18706	0	10862			18706	P-110	20	OTHER - GBCD	2.4	2.7	DRY	3.2	DRY	3.3

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH

Well Number: 205H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bell_Lake_Unit_South_205H_Csg_Assumptions_20181104182901.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bell_Lake_Unit_South_205H_Csg_Assumptions_20181104182921.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Bell_Lake_Unit_South_205H_Csg_Assumptions_20181104182931.pdf

Bell_Lake_Unit_South_205H_5.5_Csg_Specs_20181104182943.pdf

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH

Well Number: 205H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1350	1053	1.34	14.8	1411	50	Premium C	Accelerator

INTERMEDIATE	Lead		0	5200	941	2.44	12	2296	75	Premium C	Extender
INTERMEDIATE	Tail		0	5200	410	1.33	14.8	545	75	Premium C	Accelerator
PRODUCTION	Lead		4500	1870 6	1932	1.91	13.2	3690	15	Premium C	Retarder

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 (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1350	OTHER : Fresh Water	8.4	9							
1350	5200	OTHER : Brine	9.8	10.2							
5200	1870 6	OTHER : Cut Brine	8.8	9.2							

Operator Name: KAISER FRANCIS OIL COMPANY

Well Name: BELL LAKE UNIT SOUTH

Well Number: 205H

Section 6 - Test, Logging, Coring

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

[REDACTED]

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

GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

[REDACTED]

Anticipated Bottom Hole Temperature(F): 191

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Bell_Lake_Unit_South_205H_H2S_Plan_20181104184155.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Bell_Lake_Unit_South_205H_Directional_Plan_20181104184236.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Kaiser-Francis Oil Company
 Bell Lake Unit South 205H
 Casing Assumptions

Interval	Length	Casing Size	Weight (#/ft)	Grade	Thread	Condition	Hole Size	TVD (ft)	Mud Type	Mud Weight Hole Control	Viscosity	Fluid Loss	Anticipated Mud Weight (ppg)	Max Pore Pressure (psi)	Collapse (psi)	Burst (psi)	Body Tensile Strength	Joint Tensile Strength	Collapse Safety Factor (Min 1.1)	Burst Safety Factor (Min 1.0)	Body Tensile Safety Factor (Min 1.8)	Joint Tensile Safety Factor (Min 1.8)
Conductor	120'	20"				New		120														
Surface	1350'	13-5/8"	54.5	J-55	STC	New	17-1/2"	1350	FW	8.4 - 9.0	32 - 34	NC	9	632	1130	2730	853000	514000	1.8	4.3	11.6	7.0
Intermediate	5200'	9-5/8"	40	HCP-110	LTC	New	12-1/4"	5200	Brine	9.8 - 10.2	28	NC	10.2	2758	4230	7900	1260000	1266000	1.5	2.9	6.1	6.1
Production	18706	5-1/2"	20	P110	BTC	New	8-3/4"	10862	Cut Brine	8.8 - 9.2	28-29	NC	9.2	5196	11100	12640	641000	548000	2.1	2.4	3.0	2.5

Company: Kaiser-Francis
 Site: Bell Lake Unit South 205H
 Well: Bell Lake Unit South 205H
 Project: Lea County, New Mexico (NAD 83)
 Rig: Cactus 171

MS Directional



Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 6.41°

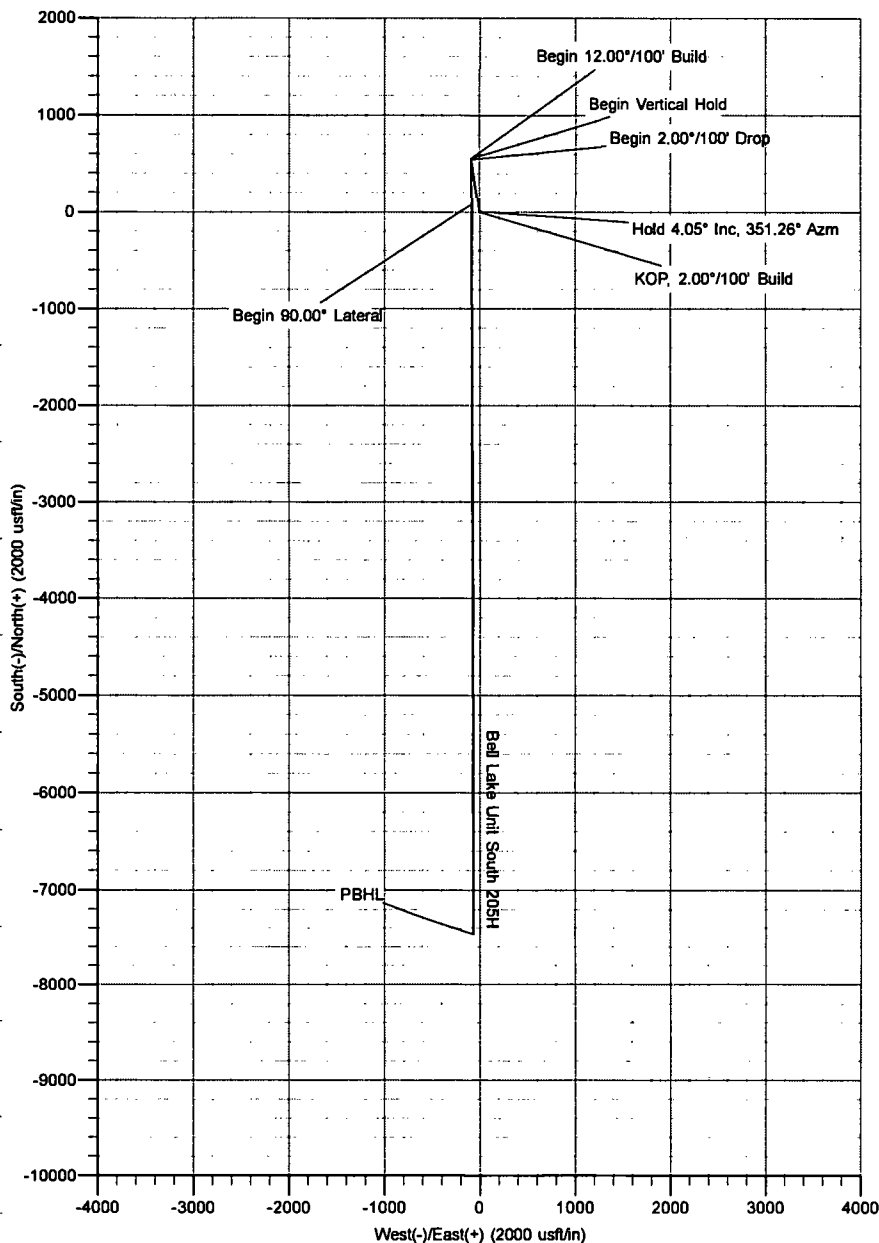
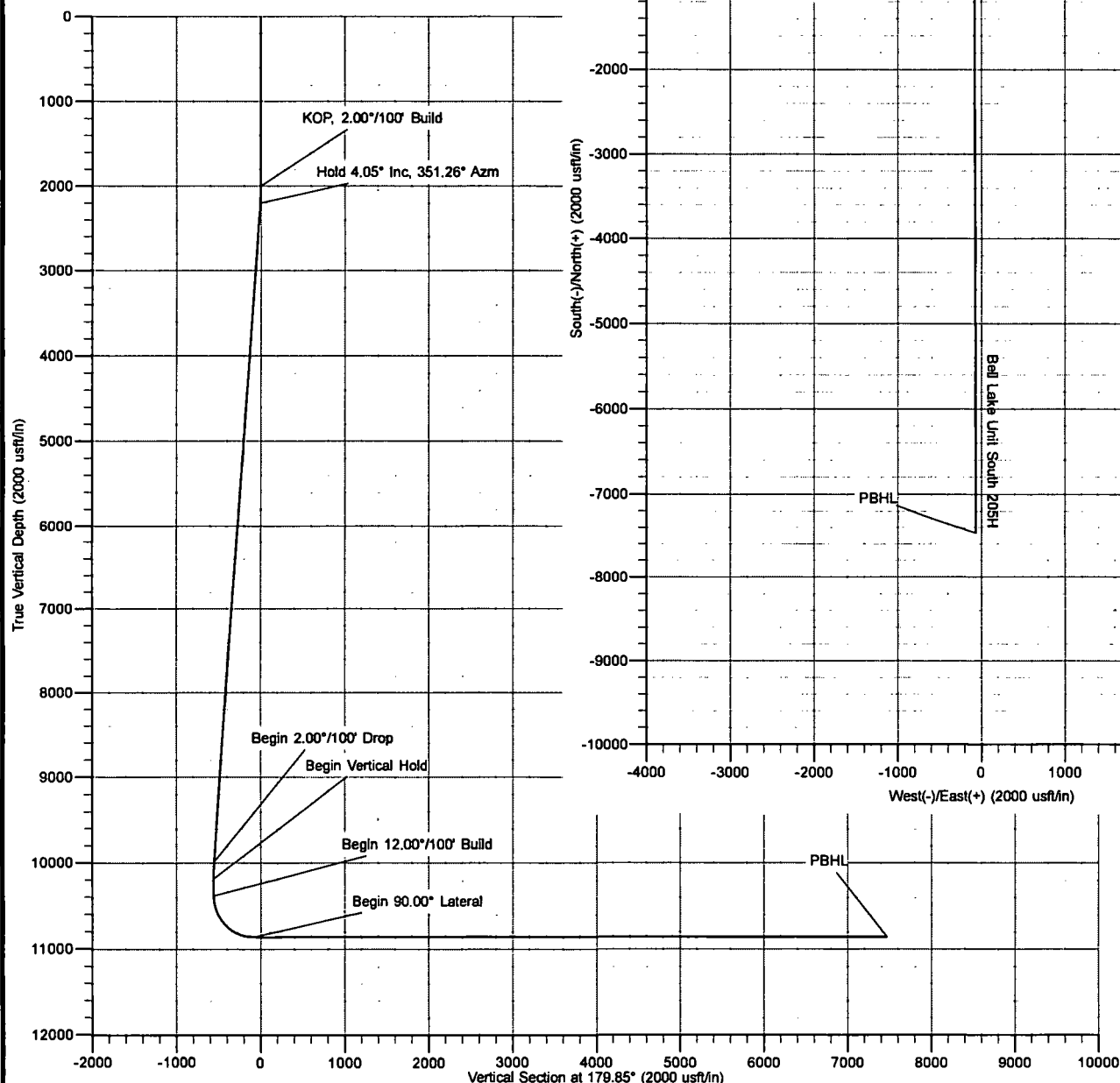
Magnetic Field
 Strength: 47846.5nT
 Dip Angle: 60.03°
 Date: 11/20/2018
 Model: BGGM2018

US State Plane 1983
 New Mexico Eastern Zone

Created By: JA
 Date: 12/24, October 23 2018
 Plan: Design #1

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	KOP, 2.00°/100' Build
2202.34	4.05	351.26	2202.17	7.06	-1.09	-7.06	7.14	Hold 4.05° Inc, 351.26° Azm
10001.98	4.05	351.26	9982.37	551.10	-84.74	-551.32	557.58	Begin 2.00°/100' Drop
10204.32	0.00	0.00	10184.54	558.16	-85.83	-558.39	564.72	Begin Vertical Hold
10404.32	0.00	0.00	10384.54	558.16	-85.83	-558.39	564.72	Begin 12.00°/100' Build
11154.32	90.00	179.85	10862.00	80.70	-84.60	-80.92	1042.19	Begin 90.00° Lateral
18706.44	90.00	179.85	10862.00	-7471.40	-65.20	7471.20	8594.31	PBHL



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented.

Any decisions made or wells drilled utilizing this or any other information supplied by MS Directional are at the sole risk and responsibility of the customer. MS Directional is not responsible for the accuracy of this schematic or the information contained herein.

Kaiser-Francis Oil Company

Kaiser-Francis

Lea County, New Mexico (NAD 83)

Bell Lake Unit South 205H

Bell Lake Unit South 205H

Wellbore #1

Plan: Design #1

Standard Planning Report

23 October, 2018

MS *Directional*

Database: EDM 5000.14 Conroe Db
Company: Kaiser-Francis
Project: Lea County, New Mexico (NAD 83)
Site: Bell Lake Unit South 205H
Well: Bell Lake Unit South 205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bell Lake Unit South 205H
TVD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
MD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, New Mexico (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Bell Lake Unit South 205H				
Site Position:		Northing:	454,275.70 usft	Latitude:	32° 14' 46.581 N
From:	Map	Easting:	792,269.00 usft	Longitude:	103° 31' 18.050 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Bell Lake Unit South 205H					
Well Position	+N/-S	0.00 usft	Northing:	454,275.70 usft	Latitude:	32° 14' 46.581 N
	+E/-W	0.00 usft	Easting:	792,269.00 usft	Longitude:	103° 31' 18.050 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,630.60 usft
Grid Convergence:	0.433 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2018	11/20/2018	6.848	60.028	47,846.47

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.85

Plan Survey Tool Program	Date	10/23/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,706.44 Design #1 (Wellbore #1)	MWD	
OWSG MWD - Standard				

Plan 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	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,202.34	4.05	351.26	2,202.17	7.06	-1.09	2.00	2.00	0.00	351.258	
10,001.98	4.05	351.26	9,982.37	551.10	-84.74	0.00	0.00	0.00	0.000	
10,204.32	0.00	0.00	10,184.54	558.16	-85.83	2.00	-2.00	0.00	180.000	VP BLUS 205H
10,404.32	0.00	0.00	10,384.54	558.16	-85.83	0.00	0.00	0.00	0.000	
11,154.32	90.00	179.85	10,862.00	80.70	-84.60	12.00	12.00	0.00	179.853	
18,706.44	90.00	179.85	10,862.00	-7,471.40	-65.20	0.00	0.00	0.00	0.000	PBHL BLUS 205H

Database: EDM 5000.14 Conroe Db
 Company: Kaiser-Francis
 Project: Lea County, New Mexico (NAD 83)
 Site: Bell Lake Unit South 205H
 Well: Bell Lake Unit South 205H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Bell Lake Unit South 205H
 TVD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
 MD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned 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
KOP, 2.00°/100' Build									
2,100.00	2.00	351.26	2,099.98	1.72	-0.27	-1.73	2.00	2.00	0.00
2,202.34	4.05	351.26	2,202.17	7.06	-1.09	-7.06	2.00	2.00	0.00
Hold 4.05° Inc, 351.26° Azm									
2,300.00	4.05	351.26	2,299.59	13.87	-2.13	-13.88	0.00	0.00	0.00
2,400.00	4.05	351.26	2,399.34	20.85	-3.21	-20.86	0.00	0.00	0.00
2,500.00	4.05	351.26	2,499.09	27.82	-4.28	-27.83	0.00	0.00	0.00
2,600.00	4.05	351.26	2,598.84	34.80	-5.35	-34.81	0.00	0.00	0.00
2,700.00	4.05	351.26	2,698.59	41.77	-6.42	-41.79	0.00	0.00	0.00
2,800.00	4.05	351.26	2,798.34	48.75	-7.50	-48.77	0.00	0.00	0.00
2,900.00	4.05	351.26	2,898.09	55.72	-8.57	-55.75	0.00	0.00	0.00
3,000.00	4.05	351.26	2,997.84	62.70	-9.64	-62.72	0.00	0.00	0.00
3,100.00	4.05	351.26	3,097.59	69.67	-10.71	-69.70	0.00	0.00	0.00
3,200.00	4.05	351.26	3,197.34	76.65	-11.79	-76.68	0.00	0.00	0.00
3,300.00	4.05	351.26	3,297.10	83.62	-12.86	-83.66	0.00	0.00	0.00
3,400.00	4.05	351.26	3,396.85	90.60	-13.93	-90.64	0.00	0.00	0.00
3,500.00	4.05	351.26	3,496.60	97.57	-15.00	-97.61	0.00	0.00	0.00
3,600.00	4.05	351.26	3,596.35	104.55	-16.08	-104.59	0.00	0.00	0.00
3,700.00	4.05	351.26	3,696.10	111.53	-17.15	-111.57	0.00	0.00	0.00
3,800.00	4.05	351.26	3,795.85	118.50	-18.22	-118.55	0.00	0.00	0.00
3,900.00	4.05	351.26	3,895.60	125.48	-19.29	-125.53	0.00	0.00	0.00
4,000.00	4.05	351.26	3,995.35	132.45	-20.37	-132.50	0.00	0.00	0.00
4,100.00	4.05	351.26	4,095.10	139.43	-21.44	-139.48	0.00	0.00	0.00
4,200.00	4.05	351.26	4,194.85	146.40	-22.51	-146.46	0.00	0.00	0.00
4,300.00	4.05	351.26	4,294.60	153.38	-23.58	-153.44	0.00	0.00	0.00
4,400.00	4.05	351.26	4,394.35	160.35	-24.66	-160.42	0.00	0.00	0.00
4,500.00	4.05	351.26	4,494.10	167.33	-25.73	-167.39	0.00	0.00	0.00
4,600.00	4.05	351.26	4,593.85	174.30	-26.80	-174.37	0.00	0.00	0.00
4,700.00	4.05	351.26	4,693.60	181.28	-27.87	-181.35	0.00	0.00	0.00
4,800.00	4.05	351.26	4,793.36	188.25	-28.95	-188.33	0.00	0.00	0.00
4,900.00	4.05	351.26	4,893.11	195.23	-30.02	-195.31	0.00	0.00	0.00
5,000.00	4.05	351.26	4,992.86	202.20	-31.09	-202.28	0.00	0.00	0.00

Database: EDM 5000.14 Conroe Db
Company: Kaiser-Francis
Project: Lea County, New Mexico (NAD 83)
Site: Bell Lake Unit South 205H
Well: Bell Lake Unit South 205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bell Lake Unit South 205H
TVD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
MD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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)
5,100.00	4.05	351.26	5,092.61	209.18	-32.16	-209.26	0.00	0.00	0.00
5,200.00	4.05	351.26	5,192.36	216.15	-33.24	-216.24	0.00	0.00	0.00
5,300.00	4.05	351.26	5,292.11	223.13	-34.31	-223.22	0.00	0.00	0.00
5,400.00	4.05	351.26	5,391.86	230.10	-35.38	-230.20	0.00	0.00	0.00
5,500.00	4.05	351.26	5,491.61	237.08	-36.45	-237.17	0.00	0.00	0.00
5,600.00	4.05	351.26	5,591.36	244.05	-37.53	-244.15	0.00	0.00	0.00
5,700.00	4.05	351.26	5,691.11	251.03	-38.60	-251.13	0.00	0.00	0.00
5,800.00	4.05	351.26	5,790.86	258.01	-39.67	-258.11	0.00	0.00	0.00
5,900.00	4.05	351.26	5,890.61	264.98	-40.74	-265.09	0.00	0.00	0.00
6,000.00	4.05	351.26	5,990.36	271.96	-41.82	-272.06	0.00	0.00	0.00
6,100.00	4.05	351.26	6,090.11	278.93	-42.89	-279.04	0.00	0.00	0.00
6,200.00	4.05	351.26	6,189.86	285.91	-43.96	-286.02	0.00	0.00	0.00
6,300.00	4.05	351.26	6,289.62	292.88	-45.04	-293.00	0.00	0.00	0.00
6,400.00	4.05	351.26	6,389.37	299.86	-46.11	-299.98	0.00	0.00	0.00
6,500.00	4.05	351.26	6,489.12	306.83	-47.18	-306.95	0.00	0.00	0.00
6,600.00	4.05	351.26	6,588.87	313.81	-48.25	-313.93	0.00	0.00	0.00
6,700.00	4.05	351.26	6,688.62	320.78	-49.33	-320.91	0.00	0.00	0.00
6,800.00	4.05	351.26	6,788.37	327.76	-50.40	-327.89	0.00	0.00	0.00
6,900.00	4.05	351.26	6,888.12	334.73	-51.47	-334.87	0.00	0.00	0.00
7,000.00	4.05	351.26	6,987.87	341.71	-52.54	-341.84	0.00	0.00	0.00
7,100.00	4.05	351.26	7,087.62	348.68	-53.62	-348.82	0.00	0.00	0.00
7,200.00	4.05	351.26	7,187.37	355.66	-54.69	-355.80	0.00	0.00	0.00
7,300.00	4.05	351.26	7,287.12	362.63	-55.76	-362.78	0.00	0.00	0.00
7,400.00	4.05	351.26	7,386.87	369.61	-56.83	-369.76	0.00	0.00	0.00
7,500.00	4.05	351.26	7,486.62	376.58	-57.91	-376.73	0.00	0.00	0.00
7,600.00	4.05	351.26	7,586.37	383.56	-58.98	-383.71	0.00	0.00	0.00
7,700.00	4.05	351.26	7,686.12	390.53	-60.05	-390.69	0.00	0.00	0.00
7,800.00	4.05	351.26	7,785.88	397.51	-61.12	-397.67	0.00	0.00	0.00
7,900.00	4.05	351.26	7,885.63	404.49	-62.20	-404.65	0.00	0.00	0.00
8,000.00	4.05	351.26	7,985.38	411.46	-63.27	-411.62	0.00	0.00	0.00
8,100.00	4.05	351.26	8,085.13	418.44	-64.34	-418.60	0.00	0.00	0.00
8,200.00	4.05	351.26	8,184.88	425.41	-65.41	-425.58	0.00	0.00	0.00
8,300.00	4.05	351.26	8,284.63	432.39	-66.49	-432.56	0.00	0.00	0.00
8,400.00	4.05	351.26	8,384.38	439.36	-67.56	-439.54	0.00	0.00	0.00
8,500.00	4.05	351.26	8,484.13	446.34	-68.63	-446.51	0.00	0.00	0.00
8,600.00	4.05	351.26	8,583.88	453.31	-69.70	-453.49	0.00	0.00	0.00
8,700.00	4.05	351.26	8,683.63	460.29	-70.78	-460.47	0.00	0.00	0.00
8,800.00	4.05	351.26	8,783.38	467.26	-71.85	-467.45	0.00	0.00	0.00
8,900.00	4.05	351.26	8,883.13	474.24	-72.92	-474.43	0.00	0.00	0.00
9,000.00	4.05	351.26	8,982.88	481.21	-73.99	-481.40	0.00	0.00	0.00
9,100.00	4.05	351.26	9,082.63	488.19	-75.07	-488.38	0.00	0.00	0.00
9,200.00	4.05	351.26	9,182.38	495.16	-76.14	-495.36	0.00	0.00	0.00
9,300.00	4.05	351.26	9,282.14	502.14	-77.21	-502.34	0.00	0.00	0.00
9,400.00	4.05	351.26	9,381.89	509.11	-78.28	-509.32	0.00	0.00	0.00
9,500.00	4.05	351.26	9,481.64	516.09	-79.36	-516.29	0.00	0.00	0.00
9,600.00	4.05	351.26	9,581.39	523.06	-80.43	-523.27	0.00	0.00	0.00
9,700.00	4.05	351.26	9,681.14	530.04	-81.50	-530.25	0.00	0.00	0.00
9,800.00	4.05	351.26	9,780.89	537.01	-82.57	-537.23	0.00	0.00	0.00
9,900.00	4.05	351.26	9,880.64	543.99	-83.65	-544.21	0.00	0.00	0.00
10,001.98	4.05	351.26	9,982.37	551.10	-84.74	-551.32	0.00	0.00	0.00
Begin 2.00°/100' Drop									
10,100.00	2.09	351.26	10,080.24	556.29	-85.54	-556.51	2.00	-2.00	0.00
10,204.32	0.00	0.00	10,184.54	558.16	-85.83	-558.39	2.00	-2.00	0.00
Begin Vertical Hold - VP BLUS 205H									

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 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Bell Lake Unit South 205H
 TVD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
 MD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned 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)
10,300.00	0.00	0.00	10,280.22	558.16	-85.83	-558.39	0.00	0.00	0.00
10,404.32	0.00	0.00	10,384.54	558.16	-85.83	-558.39	0.00	0.00	0.00
Begin 12.00°/100' Build									
10,425.00	2.48	179.85	10,405.21	557.72	-85.83	-557.94	12.00	12.00	0.00
10,450.00	5.48	179.85	10,430.15	555.98	-85.82	-556.20	12.00	12.00	0.00
10,475.00	8.48	179.85	10,454.96	552.94	-85.81	-553.16	12.00	12.00	0.00
10,500.00	11.48	179.85	10,479.58	548.61	-85.80	-548.83	12.00	12.00	0.00
10,525.00	14.48	179.85	10,503.94	542.99	-85.79	-543.22	12.00	12.00	0.00
10,550.00	17.48	179.85	10,527.97	536.11	-85.77	-536.33	12.00	12.00	0.00
10,575.00	20.48	179.85	10,551.60	527.98	-85.75	-528.20	12.00	12.00	0.00
10,600.00	23.48	179.85	10,574.78	518.62	-85.72	-518.85	12.00	12.00	0.00
10,625.00	26.48	179.85	10,597.44	508.07	-85.70	-508.29	12.00	12.00	0.00
10,650.00	29.48	179.85	10,619.52	496.34	-85.67	-496.56	12.00	12.00	0.00
10,675.00	32.48	179.85	10,640.95	483.47	-85.63	-483.69	12.00	12.00	0.00
10,700.00	35.48	179.85	10,661.68	469.50	-85.60	-469.72	12.00	12.00	0.00
10,725.00	38.48	179.85	10,681.65	454.46	-85.56	-454.68	12.00	12.00	0.00
10,750.00	41.48	179.85	10,700.80	438.40	-85.52	-438.62	12.00	12.00	0.00
10,775.00	44.48	179.85	10,719.09	421.36	-85.48	-421.58	12.00	12.00	0.00
10,800.00	47.48	179.85	10,736.46	403.38	-85.43	-403.60	12.00	12.00	0.00
10,825.00	50.48	179.85	10,752.86	384.52	-85.38	-384.74	12.00	12.00	0.00
10,850.00	53.48	179.85	10,768.26	364.83	-85.33	-365.05	12.00	12.00	0.00
10,875.00	56.48	179.85	10,782.60	344.36	-85.28	-344.58	12.00	12.00	0.00
10,900.00	59.48	179.85	10,795.86	323.16	-85.22	-323.38	12.00	12.00	0.00
10,925.00	62.48	179.85	10,807.98	301.30	-85.17	-301.52	12.00	12.00	0.00
10,950.00	65.48	179.85	10,818.95	278.84	-85.11	-279.06	12.00	12.00	0.00
10,975.00	68.48	179.85	10,828.72	255.83	-85.05	-256.05	12.00	12.00	0.00
11,000.00	71.48	179.85	10,837.28	232.35	-84.99	-232.57	12.00	12.00	0.00
11,025.00	74.48	179.85	10,844.59	208.44	-84.93	-208.66	12.00	12.00	0.00
11,050.00	77.48	179.85	10,850.65	184.19	-84.87	-184.41	12.00	12.00	0.00
11,075.00	80.48	179.85	10,855.43	159.65	-84.80	-159.88	12.00	12.00	0.00
11,100.00	83.48	179.85	10,858.91	134.90	-84.74	-135.12	12.00	12.00	0.00
11,125.00	86.48	179.85	10,861.10	110.00	-84.68	-110.22	12.00	12.00	0.00
11,150.00	89.48	179.85	10,861.98	85.02	-84.61	-85.24	12.00	12.00	0.00
11,154.32	90.00	179.85	10,862.00	80.70	-84.60	-80.92	12.00	12.00	0.00
Begin 90.00° Lateral - FTP BLUS 205H									
11,200.00	90.00	179.85	10,862.00	35.02	-84.48	-35.24	0.00	0.00	0.00
11,300.00	90.00	179.85	10,862.00	-64.98	-84.23	64.76	0.00	0.00	0.00
11,400.00	90.00	179.85	10,862.00	-164.98	-83.97	164.76	0.00	0.00	0.00
11,500.00	90.00	179.85	10,862.00	-264.98	-83.71	264.76	0.00	0.00	0.00
11,600.00	90.00	179.85	10,862.00	-364.98	-83.46	364.76	0.00	0.00	0.00
11,700.00	90.00	179.85	10,862.00	-464.98	-83.20	464.76	0.00	0.00	0.00
11,800.00	90.00	179.85	10,862.00	-564.98	-82.94	564.76	0.00	0.00	0.00
11,900.00	90.00	179.85	10,862.00	-664.98	-82.68	664.76	0.00	0.00	0.00
12,000.00	90.00	179.85	10,862.00	-764.98	-82.43	764.76	0.00	0.00	0.00
12,100.00	90.00	179.85	10,862.00	-864.98	-82.17	864.76	0.00	0.00	0.00
12,200.00	90.00	179.85	10,862.00	-964.98	-81.91	964.76	0.00	0.00	0.00
12,300.00	90.00	179.85	10,862.00	-1,064.98	-81.66	1,064.76	0.00	0.00	0.00
12,400.00	90.00	179.85	10,862.00	-1,164.98	-81.40	1,164.76	0.00	0.00	0.00
12,500.00	90.00	179.85	10,862.00	-1,264.98	-81.14	1,264.76	0.00	0.00	0.00
12,600.00	90.00	179.85	10,862.00	-1,364.98	-80.89	1,364.76	0.00	0.00	0.00
12,700.00	90.00	179.85	10,862.00	-1,464.98	-80.63	1,464.76	0.00	0.00	0.00
12,800.00	90.00	179.85	10,862.00	-1,564.98	-80.37	1,564.76	0.00	0.00	0.00
12,900.00	90.00	179.85	10,862.00	-1,664.98	-80.12	1,664.76	0.00	0.00	0.00
13,000.00	90.00	179.85	10,862.00	-1,764.98	-79.86	1,764.76	0.00	0.00	0.00

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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)
13,100.00	90.00	179.85	10,862.00	-1,864.97	-79.60	1,864.76	0.00	0.00	0.00
13,200.00	90.00	179.85	10,862.00	-1,964.97	-79.35	1,964.76	0.00	0.00	0.00
13,300.00	90.00	179.85	10,862.00	-2,064.97	-79.09	2,064.76	0.00	0.00	0.00
13,400.00	90.00	179.85	10,862.00	-2,164.97	-78.83	2,164.76	0.00	0.00	0.00
13,500.00	90.00	179.85	10,862.00	-2,264.97	-78.57	2,264.76	0.00	0.00	0.00
13,600.00	90.00	179.85	10,862.00	-2,364.97	-78.32	2,364.76	0.00	0.00	0.00
13,700.00	90.00	179.85	10,862.00	-2,464.97	-78.06	2,464.76	0.00	0.00	0.00
13,800.00	90.00	179.85	10,862.00	-2,564.97	-77.80	2,564.76	0.00	0.00	0.00
13,900.00	90.00	179.85	10,862.00	-2,664.97	-77.55	2,664.76	0.00	0.00	0.00
14,000.00	90.00	179.85	10,862.00	-2,764.97	-77.29	2,764.76	0.00	0.00	0.00
14,100.00	90.00	179.85	10,862.00	-2,864.97	-77.03	2,864.76	0.00	0.00	0.00
14,200.00	90.00	179.85	10,862.00	-2,964.97	-76.78	2,964.76	0.00	0.00	0.00
14,300.00	90.00	179.85	10,862.00	-3,064.97	-76.52	3,064.76	0.00	0.00	0.00
14,400.00	90.00	179.85	10,862.00	-3,164.97	-76.26	3,164.76	0.00	0.00	0.00
14,500.00	90.00	179.85	10,862.00	-3,264.97	-76.01	3,264.76	0.00	0.00	0.00
14,600.00	90.00	179.85	10,862.00	-3,364.97	-75.75	3,364.76	0.00	0.00	0.00
14,700.00	90.00	179.85	10,862.00	-3,464.97	-75.49	3,464.76	0.00	0.00	0.00
14,800.00	90.00	179.85	10,862.00	-3,564.97	-75.23	3,564.76	0.00	0.00	0.00
14,900.00	90.00	179.85	10,862.00	-3,664.97	-74.98	3,664.76	0.00	0.00	0.00
15,000.00	90.00	179.85	10,862.00	-3,764.97	-74.72	3,764.76	0.00	0.00	0.00
15,100.00	90.00	179.85	10,862.00	-3,864.97	-74.46	3,864.76	0.00	0.00	0.00
15,200.00	90.00	179.85	10,862.00	-3,964.97	-74.21	3,964.76	0.00	0.00	0.00
15,300.00	90.00	179.85	10,862.00	-4,064.97	-73.95	4,064.76	0.00	0.00	0.00
15,400.00	90.00	179.85	10,862.00	-4,164.97	-73.69	4,164.76	0.00	0.00	0.00
15,500.00	90.00	179.85	10,862.00	-4,264.97	-73.44	4,264.76	0.00	0.00	0.00
15,600.00	90.00	179.85	10,862.00	-4,364.97	-73.18	4,364.76	0.00	0.00	0.00
15,700.00	90.00	179.85	10,862.00	-4,464.97	-72.92	4,464.76	0.00	0.00	0.00
15,800.00	90.00	179.85	10,862.00	-4,564.97	-72.67	4,564.76	0.00	0.00	0.00
15,900.00	90.00	179.85	10,862.00	-4,664.97	-72.41	4,664.76	0.00	0.00	0.00
16,000.00	90.00	179.85	10,862.00	-4,764.97	-72.15	4,764.76	0.00	0.00	0.00
16,100.00	90.00	179.85	10,862.00	-4,864.97	-71.90	4,864.76	0.00	0.00	0.00
16,200.00	90.00	179.85	10,862.00	-4,964.96	-71.64	4,964.76	0.00	0.00	0.00
16,300.00	90.00	179.85	10,862.00	-5,064.96	-71.38	5,064.76	0.00	0.00	0.00
16,400.00	90.00	179.85	10,862.00	-5,164.96	-71.12	5,164.76	0.00	0.00	0.00
16,500.00	90.00	179.85	10,862.00	-5,264.96	-70.87	5,264.76	0.00	0.00	0.00
16,600.00	90.00	179.85	10,862.00	-5,364.96	-70.61	5,364.76	0.00	0.00	0.00
16,700.00	90.00	179.85	10,862.00	-5,464.96	-70.35	5,464.76	0.00	0.00	0.00
16,800.00	90.00	179.85	10,862.00	-5,564.96	-70.10	5,564.76	0.00	0.00	0.00
16,900.00	90.00	179.85	10,862.00	-5,664.96	-69.84	5,664.76	0.00	0.00	0.00
17,000.00	90.00	179.85	10,862.00	-5,764.96	-69.58	5,764.76	0.00	0.00	0.00
17,100.00	90.00	179.85	10,862.00	-5,864.96	-69.33	5,864.76	0.00	0.00	0.00
17,200.00	90.00	179.85	10,862.00	-5,964.96	-69.07	5,964.76	0.00	0.00	0.00
17,300.00	90.00	179.85	10,862.00	-6,064.96	-68.81	6,064.76	0.00	0.00	0.00
17,400.00	90.00	179.85	10,862.00	-6,164.96	-68.56	6,164.76	0.00	0.00	0.00
17,500.00	90.00	179.85	10,862.00	-6,264.96	-68.30	6,264.76	0.00	0.00	0.00
17,600.00	90.00	179.85	10,862.00	-6,364.96	-68.04	6,364.76	0.00	0.00	0.00
17,700.00	90.00	179.85	10,862.00	-6,464.96	-67.79	6,464.76	0.00	0.00	0.00
17,800.00	90.00	179.85	10,862.00	-6,564.96	-67.53	6,564.76	0.00	0.00	0.00
17,900.00	90.00	179.85	10,862.00	-6,664.96	-67.27	6,664.76	0.00	0.00	0.00
18,000.00	90.00	179.85	10,862.00	-6,764.96	-67.01	6,764.76	0.00	0.00	0.00
18,100.00	90.00	179.85	10,862.00	-6,864.96	-66.76	6,864.76	0.00	0.00	0.00
18,200.00	90.00	179.85	10,862.00	-6,964.96	-66.50	6,964.76	0.00	0.00	0.00
18,300.00	90.00	179.85	10,862.00	-7,064.96	-66.24	7,064.76	0.00	0.00	0.00
18,400.00	90.00	179.85	10,862.00	-7,164.96	-65.99	7,164.76	0.00	0.00	0.00

Database: EDM 5000.14 Conroe Db
Company: Kaiser-Francis
Project: Lea County, New Mexico (NAD 83)
Site: Bell Lake Unit South 205H
Well: Bell Lake Unit South 205H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bell Lake Unit South 205H
TVD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
MD Reference: 22 KB + 3630.6 @ 3652.60usft (Cactus 171)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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)
18,500.00	90.00	179.85	10,862.00	-7,264.96	-65.73	7,264.76	0.00	0.00	0.00
18,600.00	90.00	179.85	10,862.00	-7,364.96	-65.47	7,364.76	0.00	0.00	0.00
18,706.44	90.00	179.85	10,862.00	-7,471.40	-65.20	7,471.20	0.00	0.00	0.00

PBHL - PBHL BLUS 205H

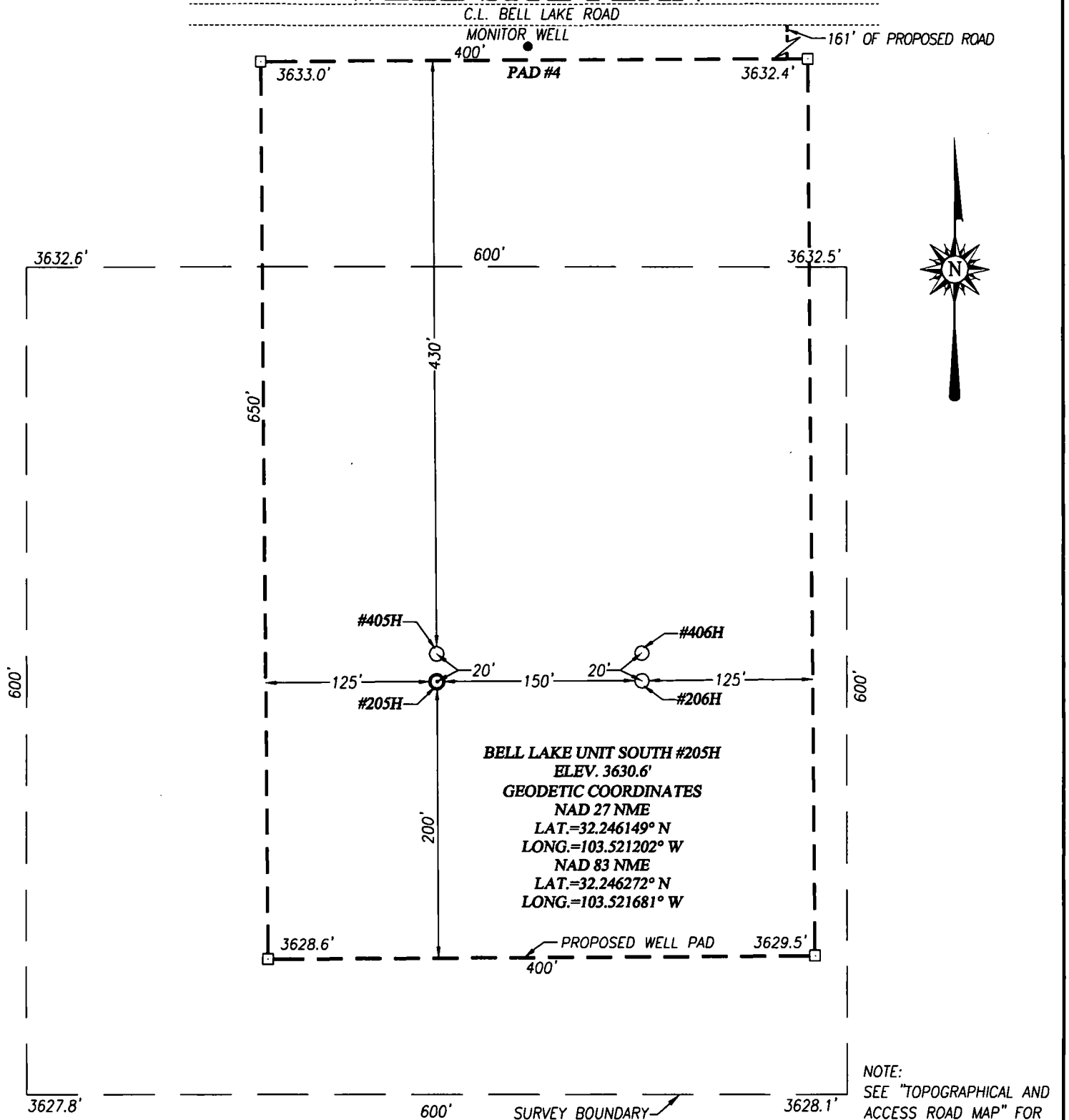
Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP BLUS 205H - plan hits target center - Point	0.00	0.00	10,184.54	558.16	-85.83	454,833.86	792,183.17	32° 14' 52.110 N	103° 31' 19.000 W
PBHL BLUS 205H - plan hits target center - Point	0.00	0.00	10,862.00	-7,471.40	-65.20	446,804.30	792,203.80	32° 13' 32.656 N	103° 31' 19.466 W
FTP BLUS 205H - plan hits target center - Point	0.00	0.00	10,862.00	80.70	-84.60	454,356.40	792,184.40	32° 14' 47.386 N	103° 31' 19.028 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP, 2.00°/100' Build
2,202.34	2,202.17	7.06	-1.09	Hold 4.05° Inc, 351.26° Azm
10,001.98	9,982.37	551.10	-84.74	Begin 2.00°/100' Drop
10,204.32	10,184.54	558.16	-85.83	Begin Vertical Hold
10,404.32	10,384.54	558.16	-85.83	Begin 12.00°/100' Build
11,154.32	10,862.00	80.70	-84.60	Begin 90.00° Lateral
18,706.44	10,862.00	-7,471.40	-65.20	PBHL

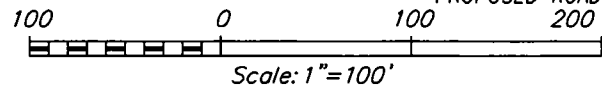
WELL SITE PLAN



DIRECTIONS TO LOCATION:

FROM JAL, N.M., GO WEST ON ST. HWY. 128 FOR APPROX. 21 MILES TO CO. RD. E21 (DELAWARE BASIN), TURN RIGHT AND GO NORTH ON CO. RD. E21 APPROX. 2.6 MILES TO BELL LAKE ROAD. TURN LEFT AND GO WEST ON BELL LAKE ROAD APPROX. 0.6 MILES TO PROPOSED ACCESS ROAD. FOLLOW ACCESS ROAD LEFT (SOUTH) 161 FEET TO THE NORTHEAST CORNER OF THE PAD. THE LOCATION STAKE IS SOUTHWEST 519 FEET.

SURVEY BOUNDARY



NOTE:
 SEE "TOPOGRAPHICAL AND
 ACCESS ROAD MAP" FOR
 PROPOSED ROAD LOCATION.

KAISER-FRANCIS OIL COMPANY

**BELL LAKE UNIT SOUTH #205H WELL LOCATED
 2519 FEET FROM THE SOUTH LINE AND 1286 FEET FROM THE
 EAST LINE OF SECTION 1, TOWNSHIP 24 SOUTH,
 RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO**

Survey Date: 9/30/17

CAD Date: 10/13/17

Drawn By: ACK

W.O. No.: 17110951

Rev.:

Rel. W.O.: 17110649

Sheet 1 of 1

PROVIDING SURVEYING SERVICES
 SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBES, N.M. 88240

(575) 393-3117 www.jwsc.biz

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