

Submit 1 Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		WELL API NO. 30-025-45858
2. Name of Operator Kaiser-Francis Oil Company		5. Indicate Type of Lease STATE ☐ FEE ☐ FED ☐
3. Address of Operator P.O. Box 21468, Tulsa, OK 74121		6. State Oil & Gas Lease No.
4. Well Location Unit Letter <u>H</u> : <u>2276</u> feet from the <u>North</u> line and <u>247</u> feet from the <u>East</u> line Section <u>6</u> Township <u>24S</u> Range <u>34E</u> NMPM County <u>Lea</u>		7. Lease Name or Unit Agreement Name Bell Lake Unit South
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3597' GR		8. Well Number 112H
9. OGRID Number 12361		10. Pool name or Wildcat Bell Lake; Bone Spring, Southwest

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: POOL NAME CHANGE ☒
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Pool Code/Name Change to BELL LAKE; BONE SPRING, SOUTHWEST; order no. R-14600

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Christina Opfer* TITLE Regulatory Manager DATE 05/17/2022
 Type or print name Christina Opfer E-mail address ChristinaO@kfoc.net PHONE 918-491-4468

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45858	² Pool Code 98264	³ Pool Name Bell Lake; Bone Spring, South
⁴ Property Code 316706	⁵ Property Name BELL LAKE UNIT SOUTH	⁶ Well Number 112H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁹ Elevation 3597.2

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	6	24 S	34 E		2276	NORTH	247	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	24 S	34 E		330	SOUTH	530	EAST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14600
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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. 6 LAT. = 32.2537179°N LONG. = 103.5170468°W NMSP EAST (FT) N = 456980.11 E = 752348.92 N/4 CORNER SEC. 6 LAT. = 32.2537139°N LONG. = 103.5086309°W NMSP EAST (FT) N = 456988.53 E = 754950.71 NE CORNER SEC. 6 LAT. = 32.2537121°N LONG. = 103.5000984°W NMSP EAST (FT) N = 457018.24 E = 757588.58 E/4 CORNER SEC. 6 LAT. = 32.2464784°N LONG. = 103.5000685°W NMSP EAST (FT) N = 454386.77 E = 757618.25 SE CORNER SEC. 6 LAT. = 32.2392204°N LONG. = 103.5000467°W NMSP EAST (FT) N = 451746.45 E = 757645.45 SW CORNER SEC. 6 LAT. = 32.2392122°N LONG. = 103.5170430°W NMSP EAST (FT) N = 451703.11 E = 752390.23 W/4 CORNER SEC. 7 LAT. = 32.2319567°N LONG. = 103.5170418°W NMSP EAST (FT) N = 449063.69 E = 752410.65 SW CORNER SEC. 7 LAT. = 32.2246979°N LONG. = 103.5170384°W NMSP EAST (FT) N = 446423.03 E = 752431.77 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD27). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST (NAD83) COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD 88. BOTTOM OF HOLE LAT. = 32.2256129°N LONG. = 103.5017327°W NMSP EAST (FT) N = 446792.19 E = 757162.48 SE CORNER SEC. 7 LAT. = 32.2247068°N LONG. = 103.5000174°W NMSP EAST (FT) N = 446466.67 E = 757695.49		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. Christina Opfer 11/30/22 Signature Date Christina Opfer Printed Name ChristinaO@kfoc.net 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. APRIL 8, 2019 Date of Survey FILIMON E. JARAMILLO Signature and Seal of Professional Surveyor Certificate Number: FILIMON E. JARAMILLO, PLS 12797 SURVEY NO. 6742A
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Intent ☒ As Drilled ☐

API # 30-025-45858		
Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT SOUTH	Well Number 112H

Kick Off Point (KOP)

UL H	Section 6	Township 24S	Range 34E	Lot	Feet 2276	From N/S NORTH	Feet 247	From E/W EAST	County LEA
Latitude 32.2474574					Longitude 103.5008713			NAD 27	

First Take Point (FTP)

UL I	Section 6	Township 24S	Range 34E	Lot	Feet 2600	From N/S SOUTH	Feet 420	From E/W EAST	County LEA
Latitude 32.2463648					Longitude 103.5014263			NAD 27	

Last Take Point (LTP)

UL P	Section 7	Township 24S	Range 34E	Lot	Feet 330	From N/S SOUTH	Feet 530	From E/W EAST	County LEA
Latitude 32.2256129					Longitude 103.5017327			NAD 27	

Is this well the defining well for the Horizontal Spacing Unit?

☒

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

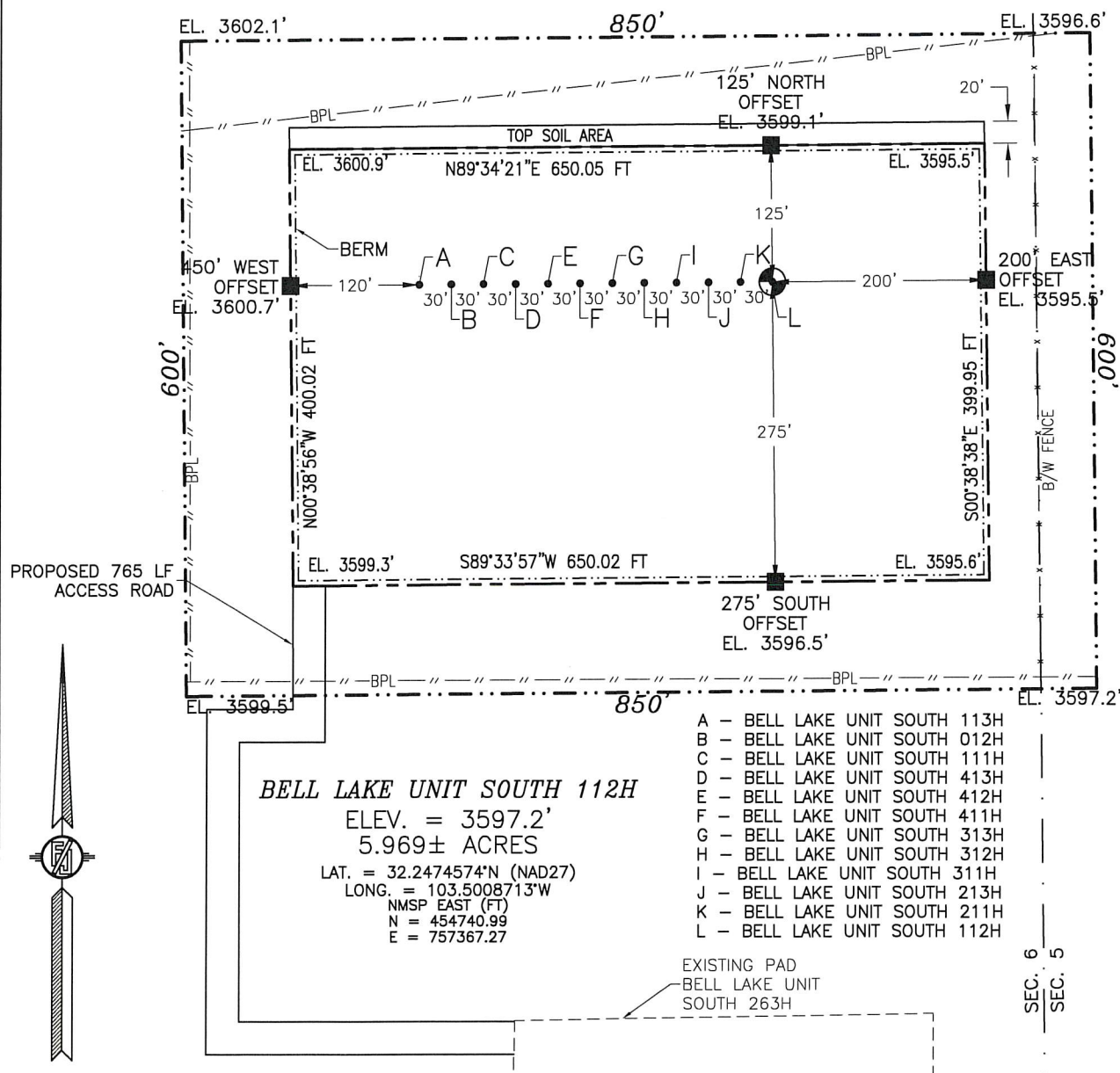
API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1927 (NAD27). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD27). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST (NAD83) COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD 88.



KAISER-FRANCIS OIL CO.
BELL LAKE UNIT SOUTH 112H
LOCATED 2276 FT. FROM THE NORTH LINE
AND 247 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 24 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 8, 2019

SURVEY NO. 6742A

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

CARLSBAD, NEW MEXICO

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☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-45858	² Pool Code 98264	³ Pool Name Bell Lake; Bone Spring, South
⁴ Property Code 316706	⁵ Property Name BELL LAKE UNIT SOUTH	⁶ Well Number 112H
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL CO.	⁹ Elevation 3597.2

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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P	7	24 S	34 E		330	SOUTH	530	EAST	LEA

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14600
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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.

BELL LAKE UNIT SOUTH 112H ELEV. = 3597.2' LAT. = 32.2475813°N (NAD83) LONG. = 103.5013493°W NMSD EAST (FT) N = 454799.96 E = 798551.13 FIRST TAKE POINT 2600' FSL, 420' FEL LAT. = 32.2464888°N LONG. = 103.5019042°W NMSD EAST (FT) N = 454401.17 E = 798382.84 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE, VERTICAL DATUM NAVD83. BOTTOM OF HOLE LAT. = 32.2257369°N LONG. = 103.5022092°W NMSD EAST (FT) N = 446850.96 E = 798346.75	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. Christina Opfer 11/30/22 Signature Date Christina Opfer Printed Name ChristinaO@kfoc.net 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. APRIL 8, 2019 Date of Survey WILMON F. JARAMILLO Signature and Seal of Professional Surveyor 12797 Certificate Number WILMON F. JARAMILLO, PLS 12797 SURVEY NO. 6742A
	SE CORNER SEC. 7 LAT. = 32.2248308°N LONG. = 103.5004938°W NMSD EAST (FT) N = 446525.43 E = 798879.78

Intent ☒ As Drilled ☐

API # 30-025-45858		
Operator Name: KAISER-FRANCIS OIL CO.	Property Name: BELL LAKE UNIT SOUTH	Well Number 112H

Kick Off Point (KOP)

UL H	Section 6	Township 24S	Range 34E	Lot	Feet 2276	From N/S NORTH	Feet 247	From E/W EAST	County LEA
Latitude 32.2475813					Longitude 103.5013493			NAD 83	

First Take Point (FTP)

UL I	Section 6	Township 24S	Range 34E	Lot	Feet 2600	From N/S SOUTH	Feet 420	From E/W EAST	County LEA
Latitude 32.2464888					Longitude 103.5019042			NAD 83	

Last Take Point (LTP)

UL P	Section 7	Township 24S	Range 34E	Lot	Feet 330	From N/S SOUTH	Feet 530	From E/W EAST	County LEA
Latitude 32.2257369					Longitude 103.5022092			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

☒

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

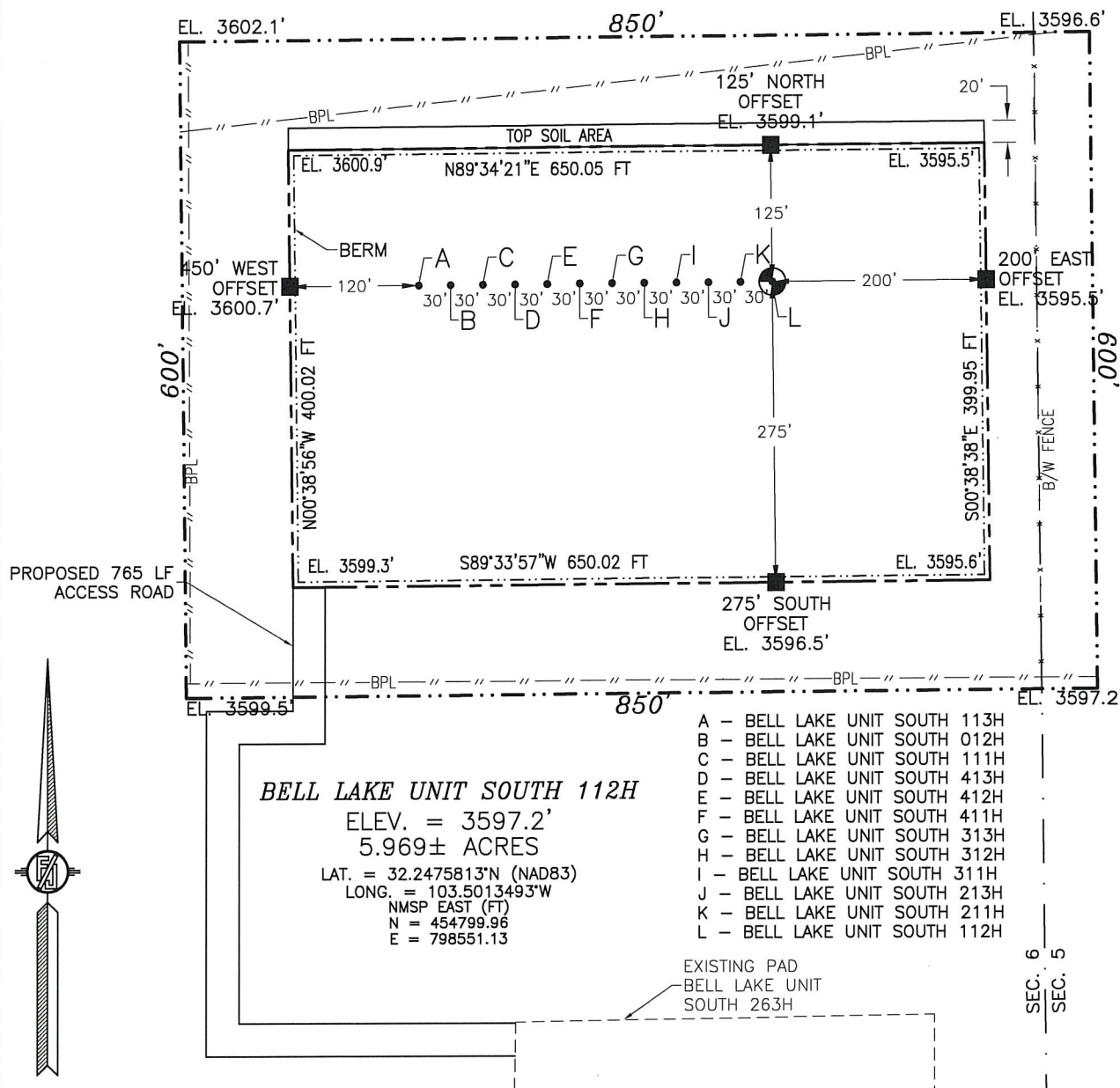
API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

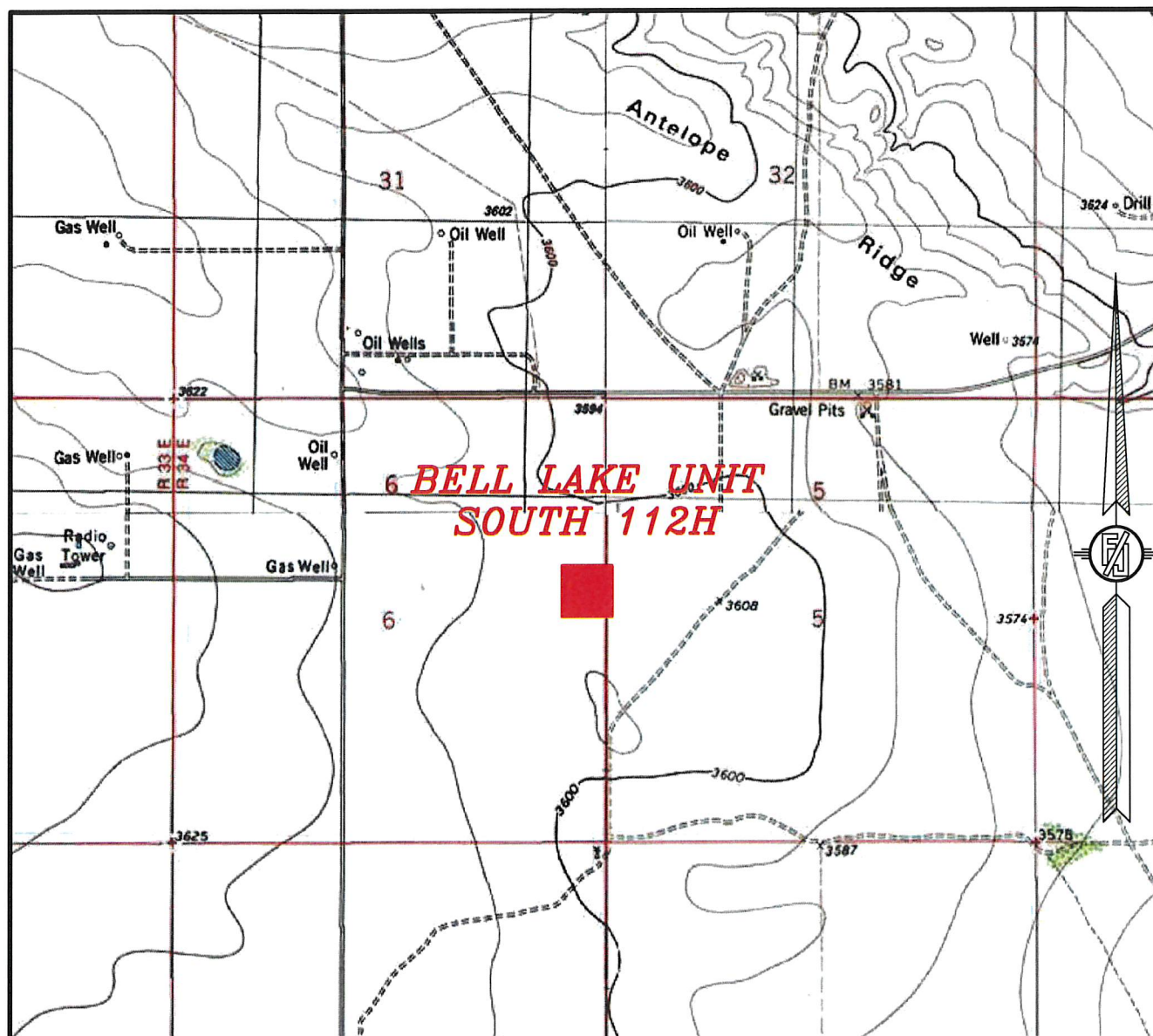
SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO

SITE MAP

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SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
BELL LAKE

NOT TO SCALE

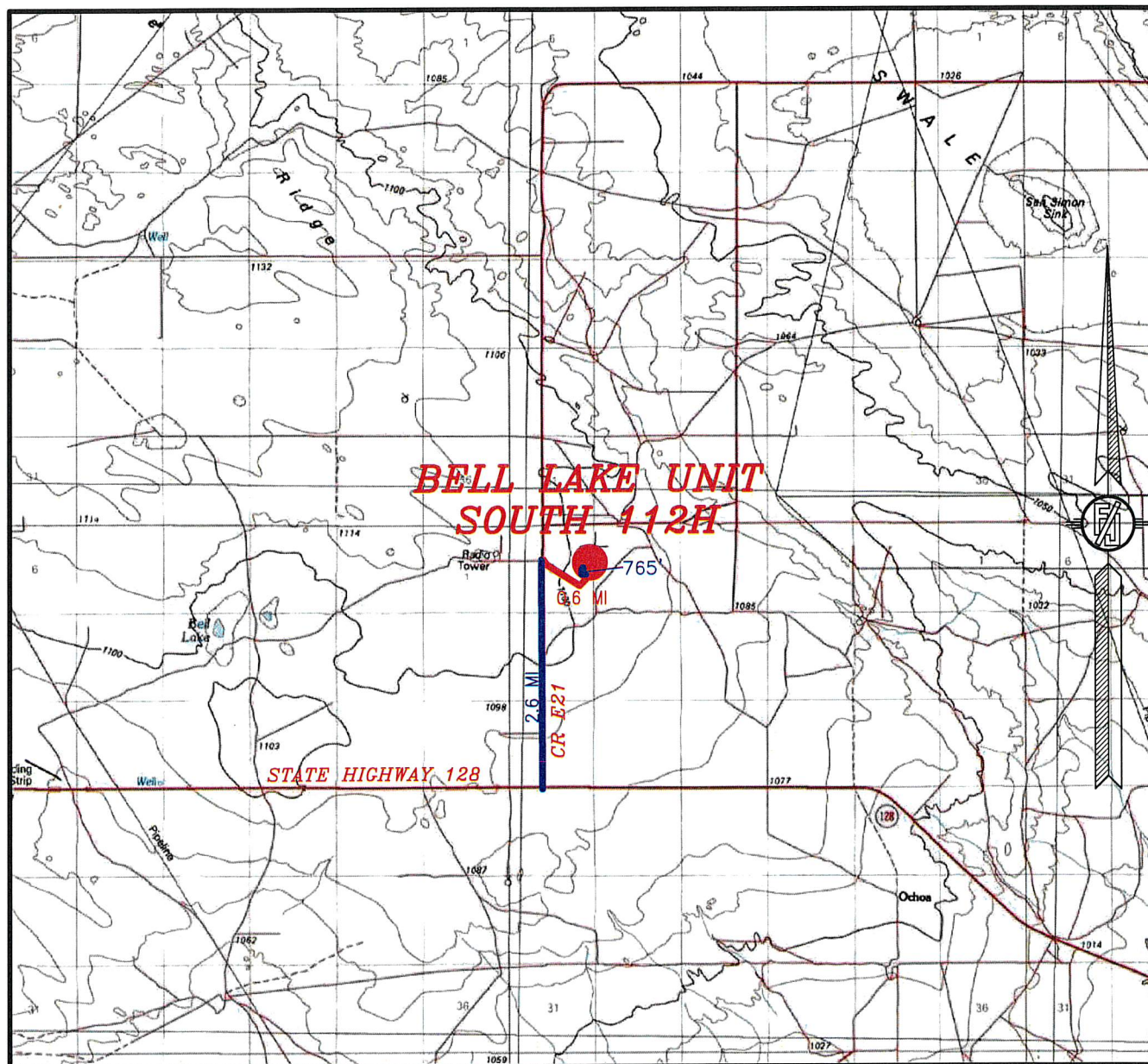
KAISER-FRANCIS OIL CO.
BELL LAKE UNIT SOUTH 112H
LOCATED 2276 FT. FROM THE NORTH LINE
AND 247 FT. FROM THE EAST LINE OF
SECTION 6, TOWNSHIP 24 SOUTH,
RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 8, 2019

SURVEY NO. 6742A

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

SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

KAISER-FRANCIS OIL CO.
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AND 247 FT. FROM THE EAST LINE OF
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RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 8, 2019

DIRECTIONS TO LOCATION

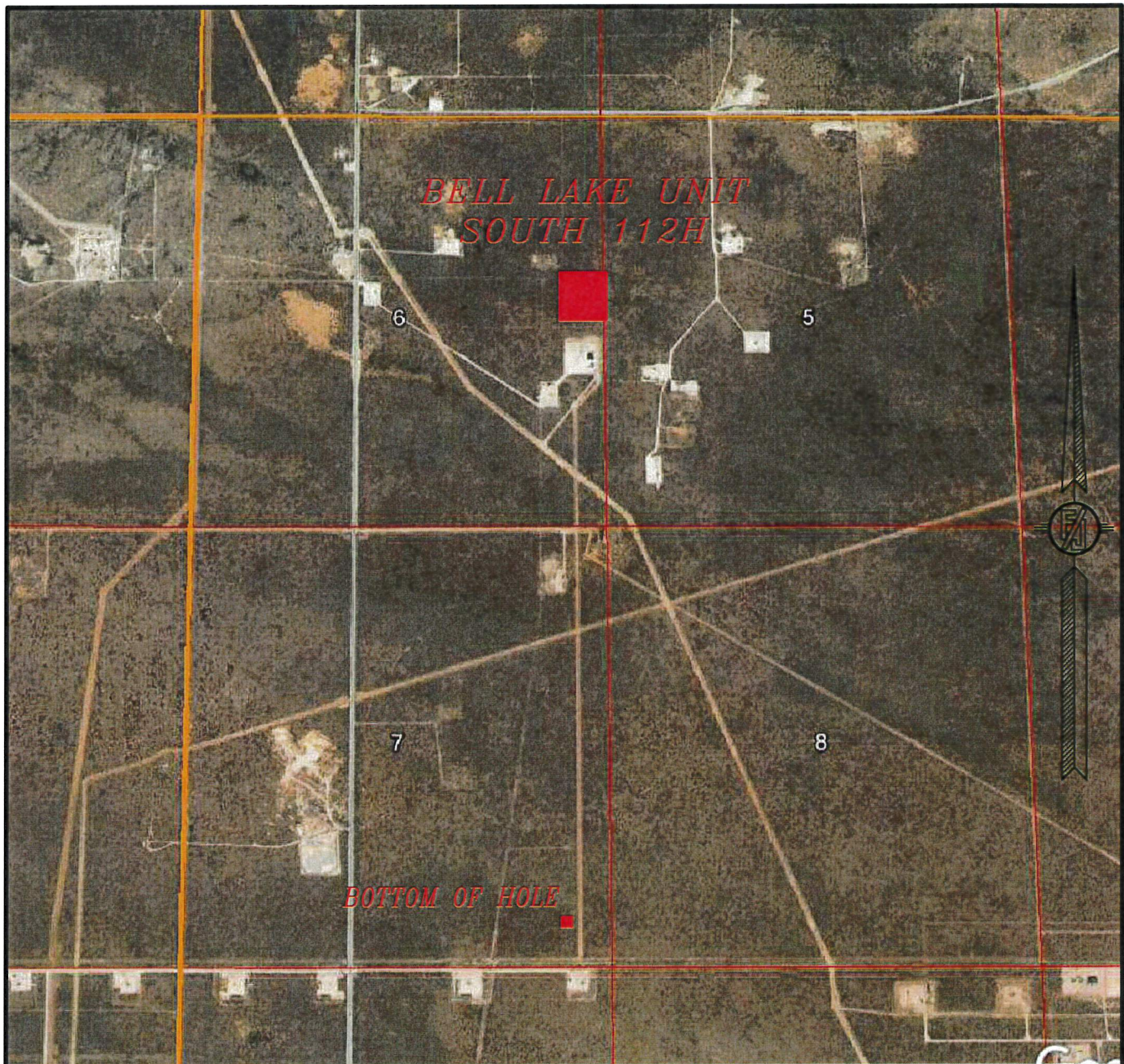
FROM THE INTERSECTION OF STATE HIGHWAY 128 AND CR E21 (DELAWARE BASIN ROAD) GO NORTH ON CR E21 APPROX. 2.6 MILES TO CR J1 (BELL LAKE ROAD) TURN RIGHT ON LEASE ROAD AND GO EAST-SOUTHEAST APPROX. 0.6 OF A MILE TO THE KAISER-FRANCIS BELL LAKE SOUTH PAD 11, FROM THE NORTHWEST PORTION OF THE EXISTING PAD FOLLOW PROPOSED ACCESS ROAD WEST FOR 272', TURN RIGHT AND GO NORTH 285', TURN RIGHT AND GO EAST 80', TURN LEFT AND GO NORTH 128' (TOTAL 765') TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

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CARLSBAD, NEW MEXICO

SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2018

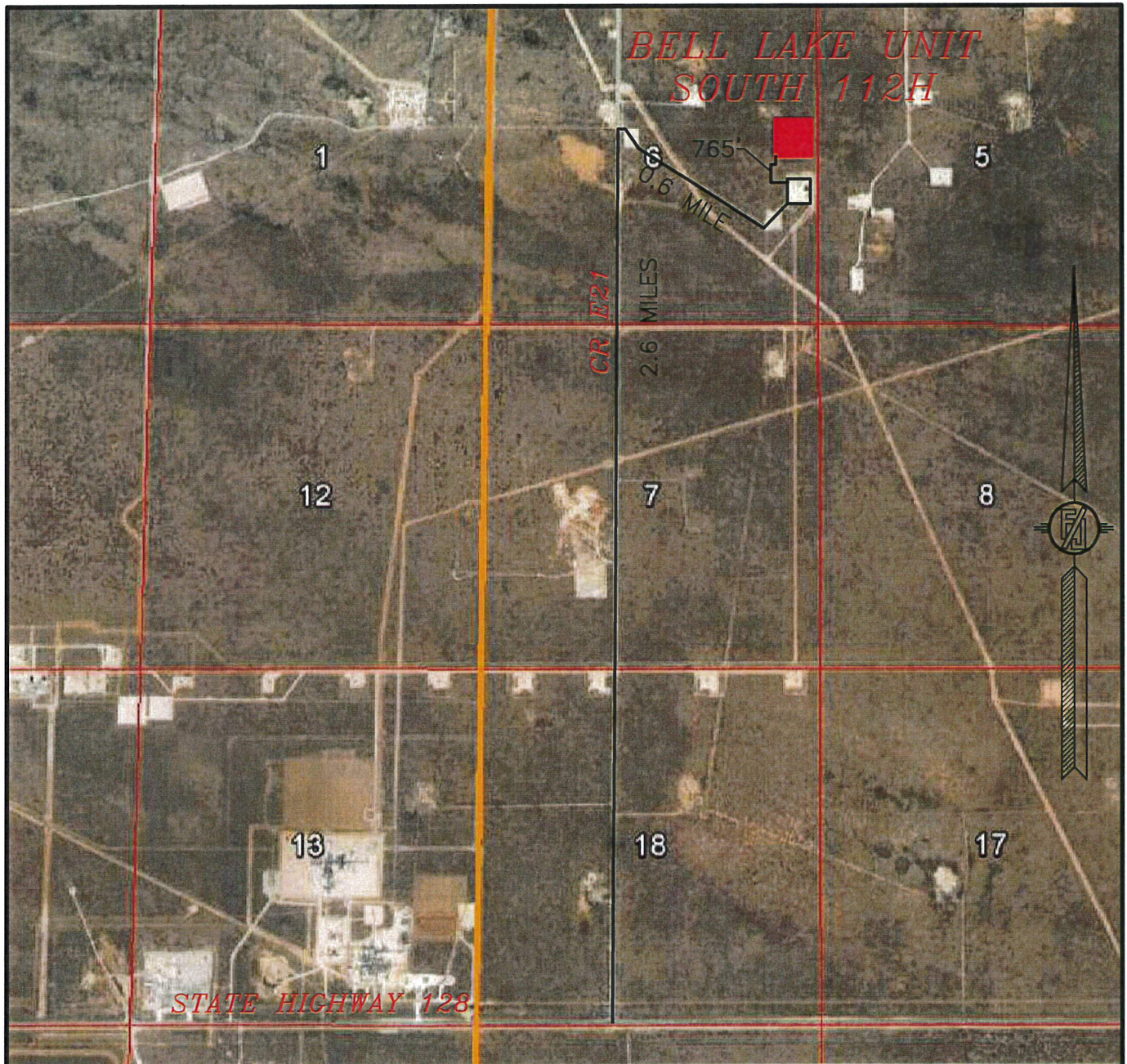
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SURVEY NO. 6742A

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

SECTION 6, TOWNSHIP 24 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
NOVEMBER 2018

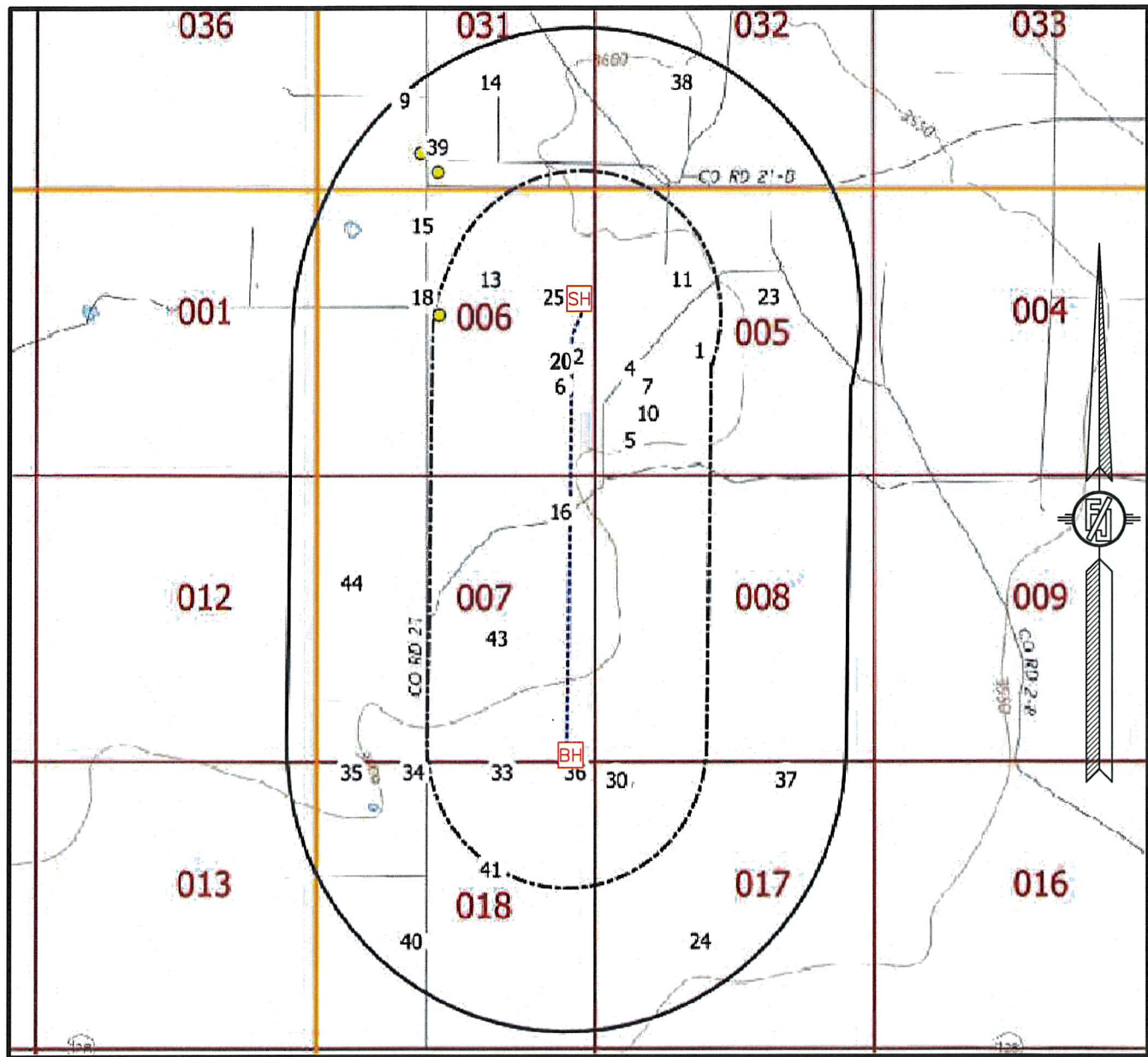
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LEA COUNTY, STATE OF NEW MEXICO

APRIL 8, 2019

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

1-MILE MAP



NOT TO SCALE

WELL DATA FROM NMCD GIS - 12/12/18

[SH] SURFACE LOCATION

[BH] BOTTOM OF HOLE

[XX] WELLS WITHIN 1 MILE

--- WELL PATH

- - - 1/4 MILE BOUNDARY

— 1-MILE BOUNDARY

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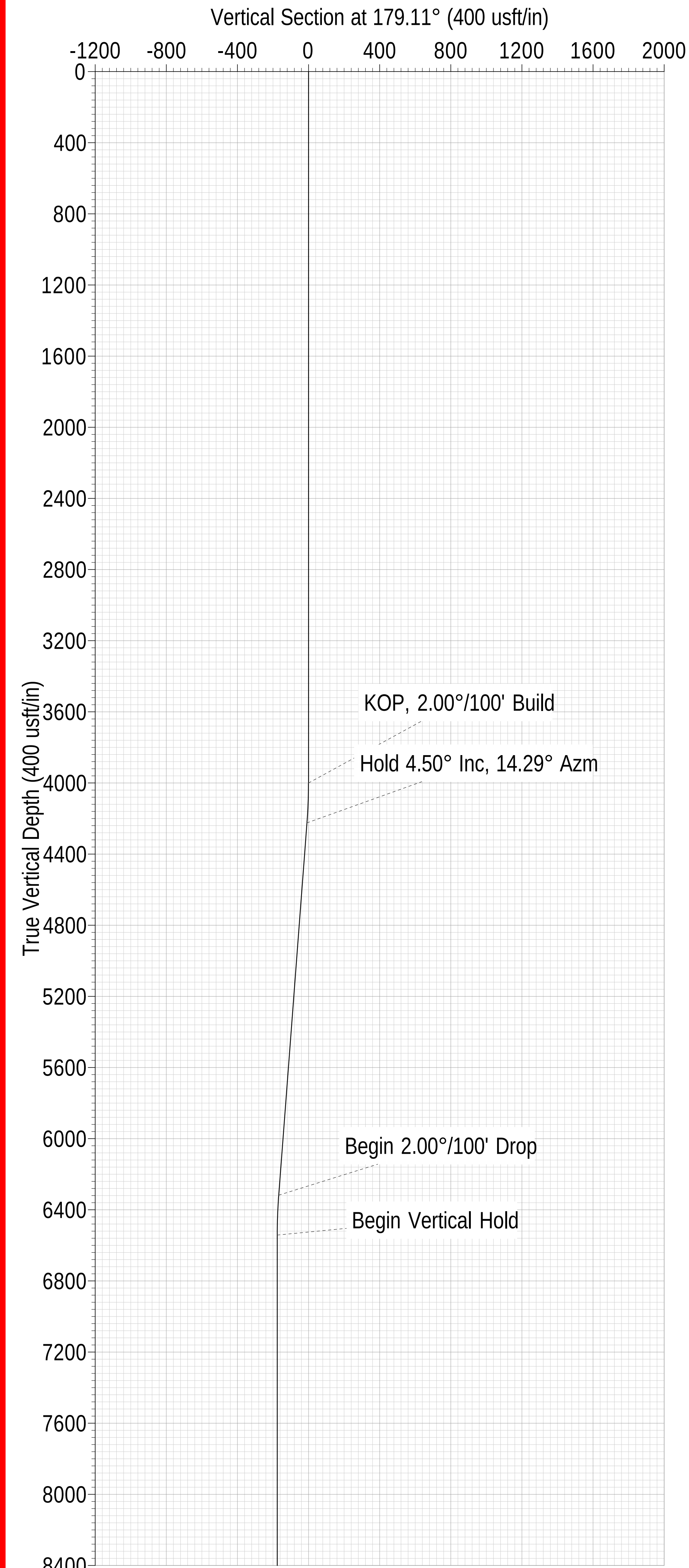
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

WELL DETAILS: Bell Lake Unit South 112H

		GL @ 3597.20		WELL @ 3620.20usft (Cactus 171)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.00	0.00	454799.96	798551.13	32° 14' 51.293 N	103° 30' 4.857 W		
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP v3 - Bell Lake Unit South 112H	9427.30	176.55	44.97	454976.51	798596.10	32° 14' 53.036 N	103° 30' 4.318 W
T2 v3 - Bell Lake Unit South 112H	10060.00	-2378.20	70.28	452421.76	798621.41	32° 14' 27.755 N	103° 30' 4.254 W
T3 v3 - Bell Lake Unit South 112H	10100.00	-3377.70	80.18	451422.26	798631.31	32° 14' 17.864 N	103° 30' 4.229 W
T4 v3 - Bell Lake Unit South 112H	10175.00	-4377.20	90.08	450422.76	798641.21	32° 14' 7.973 N	103° 30' 4.203 W
T5 v3 - Bell Lake Unit South 112H	10200.00	-5376.70	99.98	449423.26	798651.11	32° 13' 58.083 N	103° 30' 4.178 W
T6 v3 - Bell Lake Unit South 112H	10220.00	-6376.20	109.88	448423.76	798661.01	32° 13' 48.192 N	103° 30' 4.153 W
T7 v3 - Bell Lake Unit South 112H	10235.00	-7375.70	119.78	447424.26	798670.91	32° 13' 38.301 N	103° 30' 4.128 W
PBHL v3	10235.00	-8176.19	127.70	446623.77	798678.83	32° 13' 30.380 N	103° 30' 4.108 W
FTP - Bell Lake Unit South 112H	9990.00	-398.79	-168.49	454401.17	798382.64	32° 14' 47.360 N	103° 30' 6.855 W

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.000	0.00	KOP, 2.00°/100' Build
4224.75	4.50	14.29	4224.52	8.54	2.18	2.00	14.292	-8.50	Hold 4.50° Inc, 14.29° Azm
6324.47	4.50	14.29	6317.78	168.01	42.80	0.00	0.000	-167.32	Begin 2.00°/100' Drop
6549.22	0.00	0.00	6542.30	176.55	44.97	2.00	180.000	-175.83	Begin Vertical Hold
9434.22	0.00	0.00	9427.30	176.55	44.97	0.00	0.000	-175.83	Begin 10.00°/100' Build
10317.03	88.28	179.43	10000.00	-379.20	50.48	10.00	179.433	379.93	Begin 88.28° Lateral
12317.03	88.28	179.43	10060.00	-2378.20	70.28	0.00	0.000	2379.00	Begin 2.00°/100' Drop
12346.10	87.70	179.43	10061.01	-2407.25	70.57	2.00	180.000	2408.05	Hold 87.70° Inc
13317.38	87.70	179.43	10100.00	-3377.70	80.18	0.00	0.000	3378.54	Begin 2.00°/100' Drop
13422.42	85.60	179.43	10106.14	-3482.55	81.22	2.00	-180.000	3483.39	Hold 85.60° Inc
14319.76	85.60	179.43	10175.00	-4377.20	90.08	0.00	0.000	4378.07	Begin 2.00°/100' Build
14481.21	88.83	179.43	10182.85	-4538.43	91.67	2.00	0.000	4539.31	Hold 88.83° Inc
15319.70	88.83	179.43	10200.00	-5376.70	99.98	0.00	0.000	5377.61	Begin 2.00°/100' Build
15320.99	88.85	179.43	10200.03	-5377.99	99.99	2.00	0.000	5378.90	Hold 88.85° Inc
16319.45	88.85	179.43	10220.00	-6376.20	109.88	0.00	0.000	6377.14	Begin 2.00°/100' Build
16332.93	89.12	179.43	10220.24	-6389.68	110.01	2.00	0.000	6390.62	Hold 89.12° Inc
17275.28	89.12	179.43	10234.66	-7331.87	119.34	0.00	0.000	7332.84	Begin 2.00°/100' Build
17319.11	90.00	179.43	10235.00	-7375.70	119.78	2.00	0.000	7376.67	Hold 90.00° Inc
18119.64	90.00	179.43	10235.00	-8176.19	127.70	0.00	0.000	8177.19	PBHL



Kaiser-Francis Oil Company

Company: Kaiser-Francis
Well: Bell Lake Unit South 112H
County: Lea County, New Mexico (NAD 83)
Rig: Cactus 171
Wellbore: Wellbore #1
Design: Design #3
Created By: CAD
Date: 11:50, April 30 2019

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

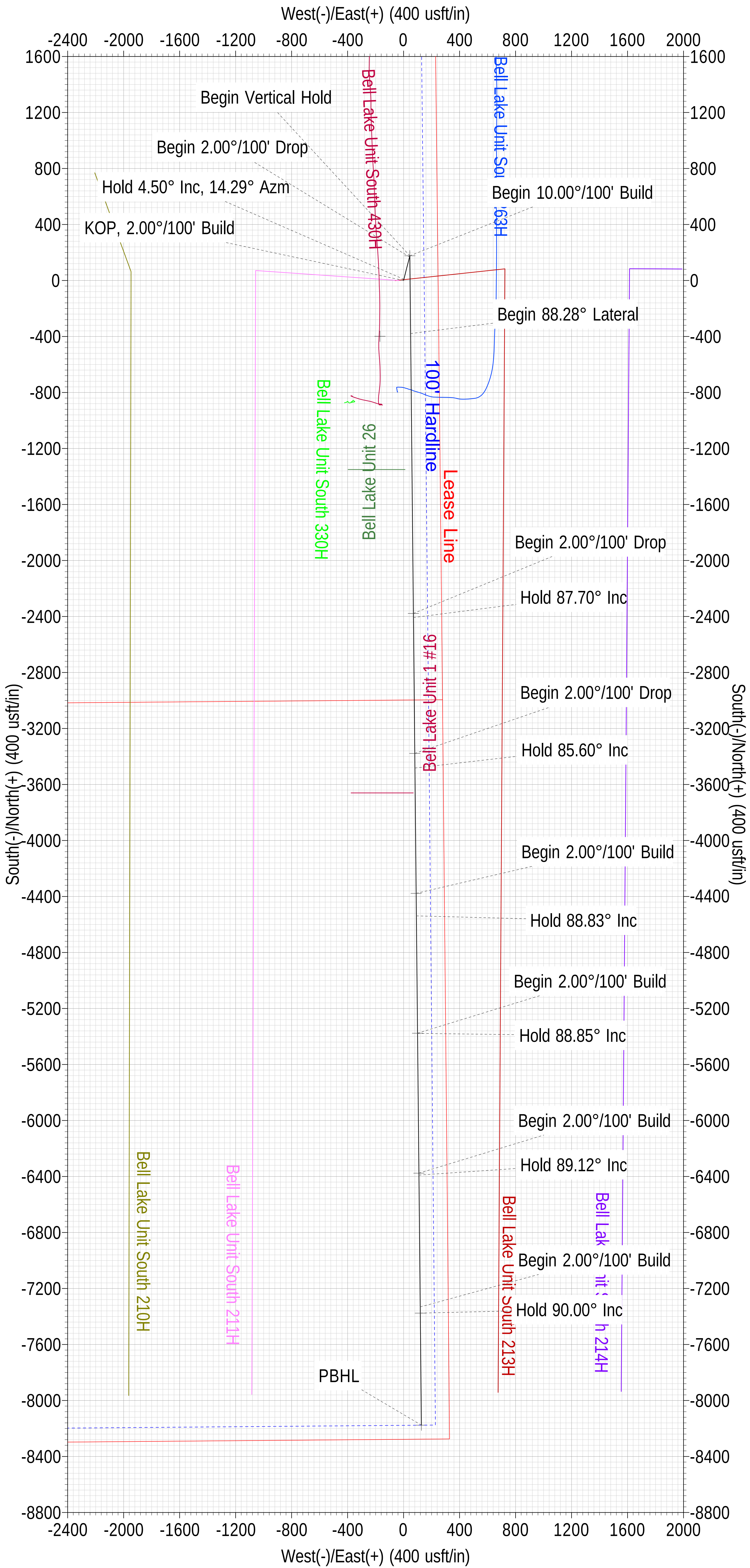
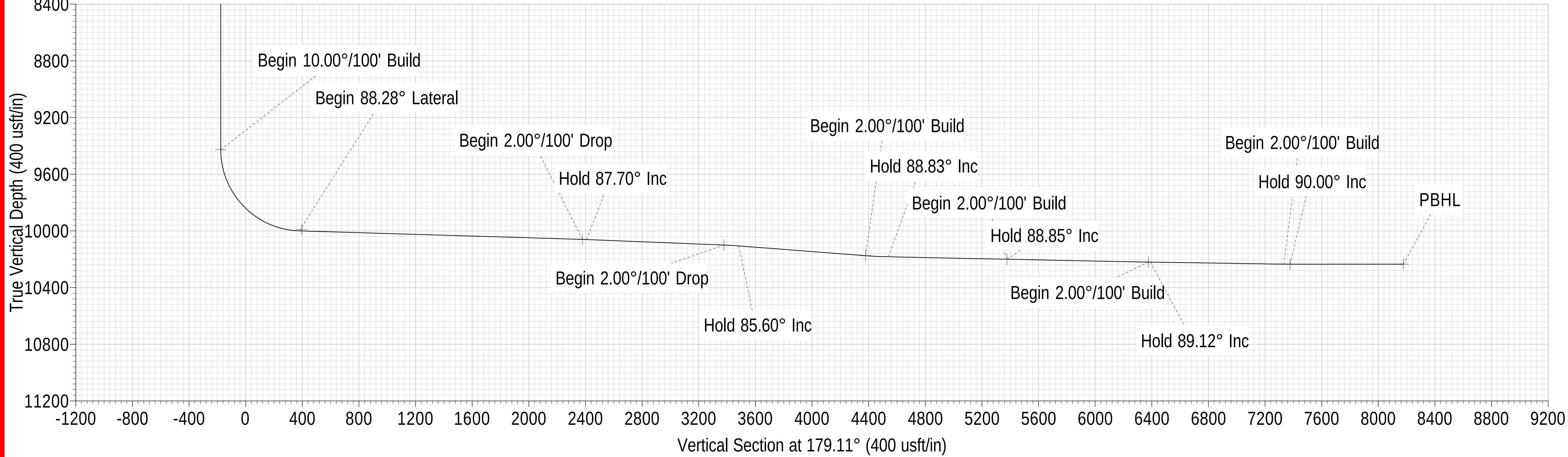
To convert a Magnetic Direction to a Grid Direction, Add 6.206°
To convert a Magnetic Direction to a True Direction, Add 6.650° East
To convert a True Direction to a Grid Direction, Subtract 0.444°

TGM

Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.21°

Magnetic Field
Strength: 47939.9nT
Dip Angle: 59.93°
Date: 5/2/2019
Model: HDGM2019

SURVEY PROGRAM			
Depth From	Depth To	Survey/Plan	Tool
0.00	18119.64	Design #3 (Wellbore #1)	MWD+HRGM



Kaiser-Francis Oil Company

Kaiser-Francis

Lea County, New Mexico (NAD 83)

Bell Lake Unit South 112H

Bell Lake Unit South 112H

Wellbore #1

Plan: Design #3

Standard Planning Report

30 April, 2019



Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Bell Lake Unit South 112H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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 112H		
Site Position:		Northing:	454,799.96 usft
From:	Map	Easting:	798,551.13 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 51.293 N
		Longitude:	103° 30' 4.857 W

Well	Bell Lake Unit South 112H		
Well Position	+N/-S	0.00 usft	Northing: 454,799.96 usft
	+E/-W	0.00 usft	Easting: 798,551.13 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.444 °	Ground Level:	3,597.20 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2019	5/2/2019	6.650	59.933	47,939.90

Design	Design #3				
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	179.11	

Plan Survey Tool Program	Date	4/30/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	18,119.64	Design #3 (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Bell Lake Unit South 112H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,224.75	4.50	14.29	4,224.52	8.54	2.18	2.00	2.00	0.00	14.292	
6,324.47	4.50	14.29	6,317.78	168.01	42.80	0.00	0.00	0.00	0.000	
6,549.22	0.00	0.00	6,542.30	176.55	44.97	2.00	-2.00	0.00	180.000	
9,434.22	0.00	0.00	9,427.30	176.55	44.97	0.00	0.00	0.00	0.000	VP v3 - Bell Lake U
10,317.03	88.28	179.43	10,000.00	-379.20	50.48	10.00	10.00	20.33	179.433	
12,317.03	88.28	179.43	10,060.00	-2,378.20	70.28	0.00	0.00	0.00	0.000	T2 v3 - Bell Lake U
12,346.10	87.70	179.43	10,061.01	-2,407.25	70.57	2.00	-2.00	0.00	180.000	
13,317.38	87.70	179.43	10,100.00	-3,377.70	80.18	0.00	0.00	0.00	0.000	T3 v3 - Bell Lake U
13,422.42	85.60	179.43	10,106.14	-3,482.55	81.22	2.00	-2.00	0.00	-180.000	
14,319.76	85.60	179.43	10,175.00	-4,377.20	90.08	0.00	0.00	0.00	0.000	T4 v3 - Bell Lake U
14,481.21	88.83	179.43	10,182.85	-4,538.43	91.67	2.00	2.00	0.00	0.000	
15,319.70	88.83	179.43	10,200.00	-5,376.70	99.98	0.00	0.00	0.00	0.000	T5 v3 - Bell Lake U
15,320.99	88.85	179.43	10,200.03	-5,377.99	99.99	2.00	2.00	0.00	0.000	
16,319.45	88.85	179.43	10,220.00	-6,376.20	109.88	0.00	0.00	0.00	0.000	T6 v3 - Bell Lake U
16,332.93	89.12	179.43	10,220.24	-6,389.68	110.01	2.00	2.00	0.00	0.000	
17,275.28	89.12	179.43	10,234.66	-7,331.87	119.34	0.00	0.00	0.00	0.000	
17,319.11	90.00	179.43	10,235.00	-7,375.70	119.78	2.00	2.00	0.00	0.000	T7 v3 - Bell Lake U
18,119.64	90.00	179.43	10,235.00	-8,176.19	127.70	0.00	0.00	0.00	0.000	PBHL v3 - Bell Lake

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Bell Lake Unit South 112H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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
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
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 2.00°/100' Build									
4,100.00	2.00	14.29	4,099.98	1.69	0.43	-1.68	2.00	2.00	0.00
4,200.00	4.00	14.29	4,199.84	6.76	1.72	-6.73	2.00	2.00	0.00
4,224.75	4.50	14.29	4,224.52	8.54	2.18	-8.50	2.00	2.00	0.00
Hold 4.50° Inc, 14.29° Azm									
4,300.00	4.50	14.29	4,299.54	14.25	3.63	-14.20	0.00	0.00	0.00
4,400.00	4.50	14.29	4,399.23	21.85	5.57	-21.76	0.00	0.00	0.00
4,500.00	4.50	14.29	4,498.92	29.44	7.50	-29.32	0.00	0.00	0.00
4,600.00	4.50	14.29	4,598.62	37.04	9.44	-36.89	0.00	0.00	0.00
4,700.00	4.50	14.29	4,698.31	44.63	11.37	-44.45	0.00	0.00	0.00
4,800.00	4.50	14.29	4,798.00	52.23	13.30	-52.01	0.00	0.00	0.00
4,900.00	4.50	14.29	4,897.69	59.82	15.24	-59.58	0.00	0.00	0.00
5,000.00	4.50	14.29	4,997.39	67.42	17.17	-67.14	0.00	0.00	0.00

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Bell Lake Unit South 112H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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	4.50	14.29	5,097.08	75.01	19.11	-74.71	0.00	0.00	0.00
5,200.00	4.50	14.29	5,196.77	82.61	21.04	-82.27	0.00	0.00	0.00
5,300.00	4.50	14.29	5,296.46	90.20	22.98	-89.83	0.00	0.00	0.00
5,400.00	4.50	14.29	5,396.15	97.80	24.91	-97.40	0.00	0.00	0.00
5,500.00	4.50	14.29	5,495.85	105.39	26.85	-104.96	0.00	0.00	0.00
5,600.00	4.50	14.29	5,595.54	112.99	28.78	-112.53	0.00	0.00	0.00
5,700.00	4.50	14.29	5,695.23	120.58	30.72	-120.09	0.00	0.00	0.00
5,800.00	4.50	14.29	5,794.92	128.18	32.65	-127.65	0.00	0.00	0.00
5,900.00	4.50	14.29	5,894.62	135.77	34.59	-135.22	0.00	0.00	0.00
6,000.00	4.50	14.29	5,994.31	143.37	36.52	-142.78	0.00	0.00	0.00
6,100.00	4.50	14.29	6,094.00	150.96	38.46	-150.34	0.00	0.00	0.00
6,200.00	4.50	14.29	6,193.69	158.55	40.39	-157.91	0.00	0.00	0.00
6,300.00	4.50	14.29	6,293.39	166.15	42.33	-165.47	0.00	0.00	0.00
6,324.47	4.50	14.29	6,317.78	168.01	42.80	-167.32	0.00	0.00	0.00
Begin 2.00°/100' Drop									
6,400.00	2.98	14.29	6,393.15	172.78	44.02	-172.08	2.00	-2.00	0.00
6,500.00	0.98	14.29	6,493.08	176.14	44.87	-175.42	2.00	-2.00	0.00
6,549.22	0.00	0.00	6,542.30	176.55	44.97	-175.83	2.00	-2.00	0.00
Begin Vertical Hold									
6,600.00	0.00	0.00	6,593.08	176.55	44.97	-175.83	0.00	0.00	0.00
6,700.00	0.00	0.00	6,693.08	176.55	44.97	-175.83	0.00	0.00	0.00
6,800.00	0.00	0.00	6,793.08	176.55	44.97	-175.83	0.00	0.00	0.00
6,900.00	0.00	0.00	6,893.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,000.00	0.00	0.00	6,993.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,100.00	0.00	0.00	7,093.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,200.00	0.00	0.00	7,193.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,300.00	0.00	0.00	7,293.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,400.00	0.00	0.00	7,393.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,500.00	0.00	0.00	7,493.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,600.00	0.00	0.00	7,593.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,700.00	0.00	0.00	7,693.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,800.00	0.00	0.00	7,793.08	176.55	44.97	-175.83	0.00	0.00	0.00
7,900.00	0.00	0.00	7,893.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,000.00	0.00	0.00	7,993.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,100.00	0.00	0.00	8,093.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,200.00	0.00	0.00	8,193.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,300.00	0.00	0.00	8,293.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,400.00	0.00	0.00	8,393.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,500.00	0.00	0.00	8,493.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,600.00	0.00	0.00	8,593.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,700.00	0.00	0.00	8,693.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,800.00	0.00	0.00	8,793.08	176.55	44.97	-175.83	0.00	0.00	0.00
8,900.00	0.00	0.00	8,893.08	176.55	44.97	-175.83	0.00	0.00	0.00
9,000.00	0.00	0.00	8,993.08	176.55	44.97	-175.83	0.00	0.00	0.00
9,100.00	0.00	0.00	9,093.08	176.55	44.97	-175.83	0.00	0.00	0.00
9,200.00	0.00	0.00	9,193.08	176.55	44.97	-175.83	0.00	0.00	0.00
9,300.00	0.00	0.00	9,293.08	176.55	44.97	-175.83	0.00	0.00	0.00
9,400.00	0.00	0.00	9,393.08	176.55	44.97	-175.83	0.00	0.00	0.00
9,434.22	0.00	0.00	9,427.30	176.55	44.97	-175.83	0.00	0.00	0.00
Begin 10.00°/100' Build									
9,500.00	6.58	179.43	9,492.94	172.78	45.01	-172.06	10.00	10.00	0.00
9,600.00	16.58	179.43	9,590.78	152.73	45.21	-152.01	10.00	10.00	0.00
9,700.00	26.58	179.43	9,683.65	116.00	45.57	-115.28	10.00	10.00	0.00

Kaiser-Francis Oil Company

MS Directional
Planning Report

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Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
9,800.00	36.58	179.43	9,768.74	63.71	46.09	-62.98	10.00	10.00	0.00
9,900.00	46.58	179.43	9,843.45	-2.57	46.75	3.30	10.00	10.00	0.00
10,000.00	56.58	179.43	9,905.51	-80.81	47.52	81.54	10.00	10.00	0.00
10,100.00	66.58	179.43	9,953.05	-168.64	48.39	169.37	10.00	10.00	0.00
10,200.00	76.58	179.43	9,984.61	-263.39	49.33	264.13	10.00	10.00	0.00
10,300.00	86.58	179.43	9,999.24	-362.19	50.31	362.92	10.00	10.00	0.00
10,317.03	88.28	179.43	10,000.00	-379.20	50.48	379.93	10.00	10.00	0.00
Begin 88.28° Lateral									
10,400.00	88.28	179.43	10,002.49	-462.13	51.30	462.87	0.00	0.00	0.00
10,500.00	88.28	179.43	10,005.49	-562.08	52.29	562.82	0.00	0.00	0.00
10,600.00	88.28	179.43	10,008.49	-662.03	53.28	662.77	0.00	0.00	0.00
10,700.00	88.28	179.43	10,011.49	-761.98	54.27	762.73	0.00	0.00	0.00
10,800.00	88.28	179.43	10,014.49	-861.93	55.26	862.68	0.00	0.00	0.00
10,900.00	88.28	179.43	10,017.49	-961.88	56.25	962.63	0.00	0.00	0.00
11,000.00	88.28	179.43	10,020.49	-1,061.83	57.24	1,062.59	0.00	0.00	0.00
11,100.00	88.28	179.43	10,023.49	-1,161.78	58.23	1,162.54	0.00	0.00	0.00
11,200.00	88.28	179.43	10,026.49	-1,261.73	59.22	1,262.49	0.00	0.00	0.00
11,300.00	88.28	179.43	10,029.49	-1,361.68	60.21	1,362.45	0.00	0.00	0.00
11,400.00	88.28	179.43	10,032.49	-1,461.63	61.20	1,462.40	0.00	0.00	0.00
11,500.00	88.28	179.43	10,035.49	-1,561.58	62.19	1,562.35	0.00	0.00	0.00
11,600.00	88.28	179.43	10,038.49	-1,661.53	63.18	1,662.31	0.00	0.00	0.00
11,700.00	88.28	179.43	10,041.49	-1,761.48	64.17	1,762.26	0.00	0.00	0.00
11,800.00	88.28	179.43	10,044.49	-1,861.43	65.16	1,862.21	0.00	0.00	0.00
11,900.00	88.28	179.43	10,047.49	-1,961.38	66.15	1,962.17	0.00	0.00	0.00
12,000.00	88.28	179.43	10,050.49	-2,061.33	67.14	2,062.12	0.00	0.00	0.00
12,100.00	88.28	179.43	10,053.49	-2,161.28	68.13	2,162.07	0.00	0.00	0.00
12,200.00	88.28	179.43	10,056.48	-2,261.23	69.12	2,262.03	0.00	0.00	0.00
12,300.00	88.28	179.43	10,059.48	-2,361.18	70.11	2,361.98	0.00	0.00	0.00
12,317.03	88.28	179.43	10,060.00	-2,378.20	70.28	2,379.00	0.00	0.00	0.00
Begin 2.00°/100' Drop									
12,346.10	87.70	179.43	10,061.01	-2,407.25	70.57	2,408.05	2.00	-2.00	0.00
Hold 87.70° Inc									
12,400.00	87.70	179.43	10,063.18	-2,461.10	71.10	2,461.91	0.00	0.00	0.00
12,500.00	87.70	179.43	10,067.19	-2,561.02	72.09	2,561.83	0.00	0.00	0.00
12,600.00	87.70	179.43	10,071.21	-2,660.93	73.08	2,661.75	0.00	0.00	0.00
12,700.00	87.70	179.43	10,075.22	-2,760.85	74.07	2,761.66	0.00	0.00	0.00
12,800.00	87.70	179.43	10,079.23	-2,860.76	75.06	2,861.58	0.00	0.00	0.00
12,900.00	87.70	179.43	10,083.25	-2,960.68	76.05	2,961.50	0.00	0.00	0.00
13,000.00	87.70	179.43	10,087.26	-3,060.59	77.04	3,061.42	0.00	0.00	0.00
13,100.00	87.70	179.43	10,091.28	-3,160.50	78.03	3,161.34	0.00	0.00	0.00
13,200.00	87.70	179.43	10,095.29	-3,260.42	79.02	3,261.25	0.00	0.00	0.00
13,300.00	87.70	179.43	10,099.30	-3,360.33	80.01	3,361.17	0.00	0.00	0.00
13,317.38	87.70	179.43	10,100.00	-3,377.70	80.18	3,378.54	0.00	0.00	0.00
Begin 2.00°/100' Drop									
13,400.00	86.05	179.43	10,104.51	-3,460.19	80.99	3,461.03	2.00	-2.00	0.00
13,422.42	85.60	179.43	10,106.14	-3,482.55	81.22	3,483.39	2.00	-2.00	0.00
Hold 85.60° Inc									
13,500.00	85.60	179.43	10,112.09	-3,559.90	81.98	3,560.74	0.00	0.00	0.00
13,600.00	85.60	179.43	10,119.77	-3,659.60	82.97	3,660.44	0.00	0.00	0.00
13,700.00	85.60	179.43	10,127.44	-3,759.30	83.96	3,760.15	0.00	0.00	0.00
13,800.00	85.60	179.43	10,135.11	-3,859.00	84.94	3,859.85	0.00	0.00	0.00
13,900.00	85.60	179.43	10,142.79	-3,958.70	85.93	3,959.55	0.00	0.00	0.00
14,000.00	85.60	179.43	10,150.46	-4,058.40	86.92	4,059.26	0.00	0.00	0.00

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Bell Lake Unit South 112H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
14,100.00	85.60	179.43	10,158.14	-4,158.10	87.91	4,158.96	0.00	0.00	0.00
14,200.00	85.60	179.43	10,165.81	-4,257.80	88.89	4,258.66	0.00	0.00	0.00
14,300.00	85.60	179.43	10,173.48	-4,357.50	89.88	4,358.37	0.00	0.00	0.00
14,319.76	85.60	179.43	10,175.00	-4,377.20	90.08	4,378.07	0.00	0.00	0.00
Begin 2.00°/100' Build									
14,400.00	87.20	179.43	10,180.04	-4,457.27	90.87	4,458.15	2.00	2.00	0.00
14,481.21	88.83	179.43	10,182.85	-4,538.43	91.67	4,539.31	2.00	2.00	0.00
Hold 88.83° Inc									
14,500.00	88.83	179.43	10,183.23	-4,557.21	91.86	4,558.09	0.00	0.00	0.00
14,600.00	88.83	179.43	10,185.28	-4,657.19	92.85	4,658.07	0.00	0.00	0.00
14,700.00	88.83	179.43	10,187.32	-4,757.16	93.84	4,758.05	0.00	0.00	0.00
14,800.00	88.83	179.43	10,189.37	-4,857.14	94.83	4,858.02	0.00	0.00	0.00
14,900.00	88.83	179.43	10,191.41	-4,957.11	95.82	4,958.00	0.00	0.00	0.00
15,000.00	88.83	179.43	10,193.46	-5,057.08	96.81	5,057.98	0.00	0.00	0.00
15,100.00	88.83	179.43	10,195.51	-5,157.06	97.80	5,157.96	0.00	0.00	0.00
15,200.00	88.83	179.43	10,197.55	-5,257.03	98.79	5,257.93	0.00	0.00	0.00
15,300.00	88.83	179.43	10,199.60	-5,357.01	99.78	5,357.91	0.00	0.00	0.00
15,319.70	88.83	179.43	10,200.00	-5,376.70	99.98	5,377.61	0.00	0.00	0.00
Begin 2.00°/100' Build									
15,320.99	88.85	179.43	10,200.03	-5,377.99	99.99	5,378.90	2.00	2.00	0.00
Hold 88.85° Inc									
15,400.00	88.85	179.43	10,201.61	-5,456.98	100.77	5,457.89	0.00	0.00	0.00
15,500.00	88.85	179.43	10,203.61	-5,556.96	101.76	5,557.87	0.00	0.00	0.00
15,600.00	88.85	179.43	10,205.61	-5,656.93	102.75	5,657.85	0.00	0.00	0.00
15,700.00	88.85	179.43	10,207.61	-5,756.91	103.74	5,757.82	0.00	0.00	0.00
15,800.00	88.85	179.43	10,209.61	-5,856.88	104.73	5,857.80	0.00	0.00	0.00
15,900.00	88.85	179.43	10,211.61	-5,956.86	105.72	5,957.78	0.00	0.00	0.00
16,000.00	88.85	179.43	10,213.61	-6,056.83	106.71	6,057.76	0.00	0.00	0.00
16,100.00	88.85	179.43	10,215.61	-6,156.81	107.70	6,157.74	0.00	0.00	0.00
16,200.00	88.85	179.43	10,217.61	-6,256.78	108.69	6,257.72	0.00	0.00	0.00
16,300.00	88.85	179.43	10,219.61	-6,356.76	109.68	6,357.69	0.00	0.00	0.00
16,319.45	88.85	179.43	10,220.00	-6,376.20	109.88	6,377.14	0.00	0.00	0.00
Begin 2.00°/100' Build									
16,332.93	89.12	179.43	10,220.24	-6,389.68	110.01	6,390.62	2.00	2.00	0.00
Hold 89.12° Inc									
16,400.00	89.12	179.43	10,221.27	-6,456.74	110.67	6,457.68	0.00	0.00	0.00
16,500.00	89.12	179.43	10,222.80	-6,556.72	111.66	6,557.67	0.00	0.00	0.00
16,600.00	89.12	179.43	10,224.33	-6,656.71	112.65	6,657.65	0.00	0.00	0.00
16,700.00	89.12	179.43	10,225.86	-6,756.69	113.64	6,757.64	0.00	0.00	0.00
16,800.00	89.12	179.43	10,227.39	-6,856.67	114.63	6,857.63	0.00	0.00	0.00
16,900.00	89.12	179.43	10,228.92	-6,956.66	115.63	6,957.61	0.00	0.00	0.00
17,000.00	89.12	179.43	10,230.45	-7,056.64	116.62	7,057.60	0.00	0.00	0.00
17,100.00	89.12	179.43	10,231.98	-7,156.62	117.61	7,157.59	0.00	0.00	0.00
17,200.00	89.12	179.43	10,233.51	-7,256.61	118.60	7,257.57	0.00	0.00	0.00
17,275.28	89.12	179.43	10,234.66	-7,331.87	119.34	7,332.84	0.00	0.00	0.00
Begin 2.00°/100' Build									
17,300.00	89.62	179.43	10,234.94	-7,356.59	119.59	7,357.56	2.00	2.00	0.00
17,319.11	90.00	179.43	10,235.00	-7,375.70	119.78	7,376.67	2.00	2.00	0.00
Hold 90.00° Inc									
17,400.00	90.00	179.43	10,235.00	-7,456.59	120.58	7,457.56	0.00	0.00	0.00
17,500.00	90.00	179.43	10,235.00	-7,556.58	121.57	7,557.56	0.00	0.00	0.00
17,600.00	90.00	179.43	10,235.00	-7,656.58	122.56	7,657.56	0.00	0.00	0.00
17,700.00	90.00	179.43	10,235.00	-7,756.57	123.55	7,757.55	0.00	0.00	0.00

Kaiser-Francis Oil Company

MS Directional
Planning Report

Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Bell Lake Unit South 112H
Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
17,800.00	90.00	179.43	10,235.00	-7,856.57	124.54	7,857.55	0.00	0.00	0.00
17,900.00	90.00	179.43	10,235.00	-7,956.56	125.53	7,957.55	0.00	0.00	0.00
18,000.00	90.00	179.43	10,235.00	-8,056.56	126.52	8,057.55	0.00	0.00	0.00
18,100.00	90.00	179.43	10,235.00	-8,156.55	127.51	8,157.55	0.00	0.00	0.00
18,119.64	90.00	179.43	10,235.00	-8,176.19	127.70	8,177.19	0.00	0.00	0.00
PBHL									

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 v3 - Bell Lake Unit - plan hits target center - Point	0.00	0.07	9,427.30	176.55	44.97	454,976.51	798,596.10	32° 14' 53.036 N	103° 30' 4.318 W
FTP - Bell Lake Unit S - plan misses target center by 219.40usft at 10334.15usft MD (10000.51 TVD, -396.30 N, 50.65 E) - Point	0.00	0.07	9,990.00	-398.79	-168.49	454,401.17	798,382.64	32° 14' 47.360 N	103° 30' 6.855 W
T2 v3 - Bell Lake Unit - plan hits target center - Point	0.00	0.00	10,060.00	-2,378.20	70.28	452,421.76	798,621.41	32° 14' 27.755 N	103° 30' 4.254 W
T3 v3 - Bell Lake Unit - plan hits target center - Point	0.00	0.00	10,100.00	-3,377.70	80.18	451,422.26	798,631.31	32° 14' 17.864 N	103° 30' 4.229 W
T4 v3 - Bell Lake Unit - plan hits target center - Point	0.00	0.00	10,175.00	-4,377.20	90.08	450,422.76	798,641.20	32° 14' 7.973 N	103° 30' 4.203 W
T5 v3 - Bell Lake Unit - plan hits target center - Point	0.00	0.00	10,200.00	-5,376.70	99.98	449,423.26	798,651.10	32° 13' 58.083 N	103° 30' 4.178 W
T6 v3 - Bell Lake Unit - plan hits target center - Point	0.00	0.00	10,220.00	-6,376.20	109.88	448,423.76	798,661.00	32° 13' 48.192 N	103° 30' 4.153 W
PBHL v3 - Bell Lake L - plan hits target center - Point	0.00	0.07	10,235.00	-8,176.19	127.70	446,623.77	798,678.83	32° 13' 30.380 N	103° 30' 4.108 W
T7 v3 - Bell Lake Unit - plan hits target center - Point	0.00	0.00	10,235.00	-7,375.70	119.78	447,424.26	798,670.90	32° 13' 38.301 N	103° 30' 4.128 W

Kaiser-Francis Oil Company

MS Directional
Planning Report

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Company:	Kaiser-Francis	TVD Reference:	WELL @ 3620.20usft (Cactus 171)
Project:	Lea County, New Mexico (NAD 83)	MD Reference:	WELL @ 3620.20usft (Cactus 171)
Site:	Bell Lake Unit South 112H	North Reference:	Grid
Well:	Bell Lake Unit South 112H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,000.00	4,000.00	0.00	0.00	KOP, 2.00°/100' Build
4,224.75	4,224.52	8.54	2.18	Hold 4.50° Inc, 14.29° Azm
6,324.47	6,317.78	168.01	42.80	Begin 2.00°/100' Drop
6,549.22	6,542.30	176.55	44.97	Begin Vertical Hold
9,434.22	9,427.30	176.55	44.97	Begin 10.00°/100' Build
10,317.03	10,000.00	-379.20	50.48	Begin 88.28° Lateral
12,317.03	10,060.00	-2,378.20	70.28	Begin 2.00°/100' Drop
12,346.10	10,061.01	-2,407.25	70.57	Hold 87.70° Inc
13,317.38	10,100.00	-3,377.70	80.18	Begin 2.00°/100' Drop
13,422.42	10,106.14	-3,482.55	81.22	Hold 85.60° Inc
14,319.76	10,175.00	-4,377.20	90.08	Begin 2.00°/100' Build
14,481.21	10,182.85	-4,538.43	91.67	Hold 88.83° Inc
15,319.70	10,200.00	-5,376.70	99.98	Begin 2.00°/100' Build
15,320.99	10,200.03	-5,377.99	99.99	Hold 88.85° Inc
16,319.45	10,220.00	-6,376.20	109.88	Begin 2.00°/100' Build
16,332.93	10,220.24	-6,389.68	110.01	Hold 89.12° Inc
17,275.28	10,234.66	-7,331.87	119.34	Begin 2.00°/100' Build
17,319.11	10,235.00	-7,375.70	119.78	Hold 90.00° Inc
18,119.64	10,235.00	-8,176.19	127.70	PBHL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos 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

CONDITIONS

Action 162611

CONDITIONS

Operator: KAISER-FRANCIS OIL CO PO Box 21468 Tulsa, OK 74121146	OGRID: 12361
	Action Number: 162611
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	WILL REQUIRE ADMENDING C-115 BACK TO FIRST PRODUCTION	12/1/2022