

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

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

State of New Mexico

Form C-101
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Kaiser-Francis Oil Company P.O. Box 21468, Tulsa, OK 74121-1468		² OGRID Number 12361
		³ API Number 30-025-34629
⁴ Property Code 5437	⁵ Property Name Bell Lake Unit	⁶ Well No. 20

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	32	22S	34E		1650	North	660	West	Lea

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

⁹ Pool Information

Pool Name Ojo Chiso; Bone Spring, Southwest	Pool Code 98259
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Additional Well Information

¹¹ Work Type P	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3424
¹⁶ Multiple No	¹⁷ Proposed Depth 13,370	¹⁸ Formation Bone Spring	¹⁹ Contractor Unknown	²⁰ Spud Date 9/15/1999
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 pits²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	26"	20"	94#	850'	1000	Surface
Intermediate	17.5"	13.375"	61#	2240'	1150	Surface
Intermediate	12.25"	9.625"	40#	5140'	1670	Surface

Casing/Cement Program: Additional Comments

See attachments for additional casing information and a description of the proposed work

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature: <i>Erica Miles</i>		OIL CONSERVATION DIVISION Approved By:	
Printed name: Erica Miles			
Title: Geosciences Technician		Title:	
E-mail Address: EricaM@kfoc.net		Approved Date:	
Date: 9/21/2021		Expiration Date:	
Phone: 918-491-4548		Conditions of Approval Attached	

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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 30-025-34629	² Pool Code 98259	³ Pool Name Ojo Chiso; Bone Spring, Southwest
⁴ Property Code 5437	⁵ Property Name BELL LAKE UNIT	⁶ Well Number 20
⁷ OGRID No. 12361	⁸ Operator Name KAISER-FRANCIS OIL COMPANY	⁹ Elevation 3249

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
E	32	22 S	34 E		1650	NORTH	660	WEST	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
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation 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.

<p>BELL LAKE UNIT 20 ELEV. = 3429' LAT. = 32.3508859°N (NAD83) LONG. = 103.4985538°W NMSP EAST (FT) N = 492389.09 E = 799122.78</p> <p>LATITUDE AND LONGITUDE VALUES ARE NAD 83 STATE PLANE VALUES ARE NMSP EAST GRID</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p>Erica Miles 10/4/2021 Signature Date Erica Miles Printed Name EricaM@kfoc.net E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>SEPTEMBER 22, 2021 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: Certificate Number: 12797</p>
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E	32	22 S	34 E		1650	NORTH	660	WEST	LEA

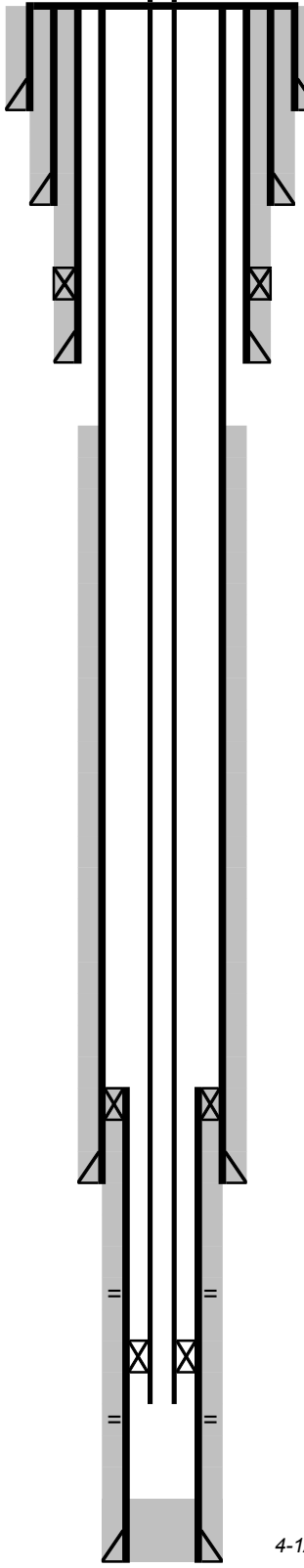
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation 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.

<p>N89°33'05"E 2637.04 FT</p> <p>N89°35'23"E 2639.89 FT</p> <p>NW CORNER SEC. 32 LAT. = 32.3552965°N LONG. = 103.5002021°W NMSP EAST (FT) N = 493973.41 E = 757269.34</p> <p>N/4 CORNER SEC. 32 LAT. = 32.3552965°N LONG. = 103.4916646°W NMSP EAST (FT) N = 493994.04 E = 759905.75</p> <p>NE CORNER SEC. 32 LAT. = 32.3552911°N LONG. = 103.4831180°W NMSP EAST (FT) N = 494012.92 E = 762545.03</p> <p>W/4 CORNER SEC. 32 LAT. = 32.3480384°N LONG. = 103.5002139°W NMSP EAST (FT) N = 491332.92 E = 757286.21</p> <p>E/4 CORNER SEC. 32 LAT. = 32.3480428°N LONG. = 103.4831333°W NMSP EAST (FT) N = 491376.01 E = 762561.27</p> <p>SW CORNER SEC. 32 LAT. = 32.3407800°N LONG. = 103.5002271°W NMSP EAST (FT) N = 488692.33 E = 757302.69</p> <p>S/4 CORNER SEC. 32 LAT. = 32.3407820°N LONG. = 103.4916822°W NMSP EAST (FT) N = 488713.70 E = 759941.83</p> <p>SE CORNER SEC. 32 LAT. = 32.3407839°N LONG. = 103.4831360°W NMSP EAST (FT) N = 488735.27 E = 762581.37</p> <p>660'</p> <p>SURFACE LOCATION</p> <p>BELL LAKE UNIT 20 ELEV. = 3429' LAT. = 32.3507621°N (NAD27) LONG. = 103.4980728°W NMSP EAST (FT) N = 492328.95 E = 757939.73</p> <p>LATITUDE AND LONGITUDE VALUES ARE NAD 27 STATE PLANE VALUES ARE NMSP EAST GRID</p> <p>S89°32'09"W 2639.77 FT</p> <p>S89°31'53"W 2640.17 FT</p> <p>N00°22'03"W 2641.09 FT</p> <p>N00°21'31"W 2641.18 FT</p> <p>S00°21'14"E 2637.50 FT</p> <p>S00°26'15"E 2641.37 FT</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p>Erica Miles 10/4/2021 Signature Date</p> <p>Erica Miles Printed Name</p> <p>EricaM@kfoc.net E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>SEPTEMBER 22, 2021 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: 12797</p>
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Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Intermediate	8.75"	7"	26#	12000	1755	5300
Liner	7"	4.5"	13.5#	11805-13345	200	11805

Kaiser-Francis	North Bell Lake Unit 20 (Devon)
Location: 32 22S 34E - 1650' FNL 660' FWL Field: West Ojo Chiso County: Lea State: New Mexico Elevation: GL - 3429' KB - 3448'	API: 30-025-34629 Spud Date: 9/15/99 Completed: 12/5/99 Diagram Updated: 4/7/10
 <p>20" 94# J-55 @ 850' w/ 1000sx</p> <p>13-3/8" 61# J-55 @ 2240' w/ 1150sx, Circ 400sx to surf</p> <p>ECP & DV Tool @ 3408'</p> <p>9-5/8" 40# S-95 @ 5140', 1st stg 770sx, 2nd stage 900sx</p> <p>TOC 5300' (Temp svy)</p> <p>TOL @ 11805'</p> <p>7" 26# P-110 @ 12,000' w/ 1755sx</p> <p>12918-28' - First Morrow</p> <p>Arrowset Pkr @ 12,961'</p> <p>13104-08' & 13120-28' Second Morrow</p> <p>4-1/2" 13.5# P-110 @ 13,367' w/ 200sx</p> <p>TD - 13,370'</p> <p>PBTD - 13,345'</p>	<p>Tubing Desc: P-110 AB Mod, Flow sub, 1 jnt, 1.81" R-nip w/ 1.76" no-go, 2 jnts, Packer, T-2 on-off w/ 1.81" F-nip, 2 jnts, 6' sub, 408 jnts, 4' sub</p> <p>Work History:</p> <p>Completion - RIH w/ mill on tbg, Drill cmt off lnr top, Clean to 13,345', RIH w/ bit & scraper to 13,319', Pickle pipe to 12,700', Disp w/ 3% KCl, Run GR, RAL & CCL from TD to TOL, Run PDK-100 from TD to TOL, RIH w/ TCP & pkr on WL, Set @ 12831' to perf 12,918-28', Test IH w/ tbg, Latch on-off tool, Tst pkr to 2000#, Swab down to 10,000', Drop bar, No change on tbg or csg, Fish bar, Drop bar, No change, Swab down, No entry, Rel pkr, POOH, Guns did not fire, Re-run TCP, pkr & tbg, Fire guns, Flow well, Rel guns, Chase 200' past perfs, Run FBHP grad & 4 point</p> <p>12/30/06 - Blow down, Rel pkr, Pmp 30bbbls 2%, POOH w/ tbg & pkr, RIH w/ bit & scraper to 13,266', RIH w/ tbg, POOH LD, RIH w/ TCP on tbg, Space out, Set pkr @ 12,961', Swab down to 10,000', Drop bar, Perf 13,104-8' & 13,120-8', Swab, Well on vac after runs, No entry, Rel guns, Chase to 13,200', Acidize w/ 2000gal 7-1/2% & BS, AIR 3bpm @ 6400#, ISIP 5800#, Flow back 10bbl & died, Swab</p>

1. Pull tubing & packer.
2. Set CIBP @ 12870'. Load hole and test casing to 1000psi. Run CBL from TOL to 500' above observed TOC.
3. RIH w/ tubing to 12870'. Displace hole w/ approved plug mud.
4. Spot 25sx Class H cement on top of CIBP. WOC 4hr & tag no deeper than 12770'.
5. POOH to 12050'. Spot Class H balanced plug 12050' – 11117'. WOC 4hr & tag no deeper than 11117'.
6. POOH to 10550'. Spot Class H balanced plug 10550' - 9894'. Displace hole w/ 2% KCl & POOH.
7. Perforate Avalon 9361' – 9288'.
8. RIH w/ packer on tubing. Set packer @ 9250'.
9. Acidize via tubing w/ 4000gal HCl Nefe & ball sealers.
10. Swab well and flow test.
11. Pull tubing & packer.
12. Set composite BP @ 9270'. Dump 10' cement on plug. Test plug to 1000psi.
13. RIH w/ 4-1/2" csg to 9260'. Cement 4-1/2" to 8000' TOC on annulus.
14. NU tubing head & frac valve. Test casing & WH.
15. PU bit BHA on tubing. Drill out cement & clean out to PBTD.
16. RU frac & assoc equip. Frac Avalon.
17. Flow test well.
18. Set CIBP @ 9240'. Dump 10' cement. Perf Avalon 8994' – 8945'.
19. RU frac & assoc equip. Frac Avalon.
20. Flow test well.
21. Set CIBP @ 8920'. Dump 10' cement. Perf Avalon 8851' – 8761'.
22. RU frac & assoc equip. Frac Avalon.
23. Flow test well.
24. PU bit BHA on tubing. Drill out plugs & clean out to PBTD.
25. Flow test well.

Note the following formation depths for plugging purposes:

Wolfcamp base - 11,874'
Wolfcamp top - 11,217'
2nd BSS base - 10,489'
2nd BSS top - 9,994'

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Wolfcamp base - 11,874'

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CONDITIONS

Action 49683

CONDITIONS

Operator: KAISER-FRANCIS OIL CO P.O. Box 21468 Tulsa, OK 74121	OGRID: 12361
	Action Number: 49683
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
pkautz	APD expires 10/06/2023	10/6/2021