

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
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 30-015-44559		² Pool Code 98220		³ Pool Name PURPLE SAGE WOLFCAMP GAS					
⁴ Property Code		⁵ Property Name WHITESNAKE 20/21 WOBC FEE						⁶ Well Number 2H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 3049'	
¹⁰ Surface Location									
UL or lot no. C	Section 20	Township 23S	Range 28E	Lot Idn	Feet from the 600	North/South line NORTH	Feet From the 2200	East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. C	Section 21	Township 23S	Range 28E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 2310	East/West line WEST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

¹⁶ GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 471612.4 - E 610033.4 LAT: 32.2963402° N LONG: 104.1110072° W BOTTOM HOLE N 471888.5 - E 615424.0 LAT: 32.2970672° N LONG: 104.0935596° W CORNER DATA NAD 83 GRID - NM EAST A: FOUND 1/2" REBAR N 466867.5 - E 607843.9 B: FOUND 1/2" REBAR N 472218.9 - E 607832.7 C: FOUND 1/2" REBAR N 472210.9 - E 610473.4		CORNER DATA NAD 83 GRID - NM EAST D: FOUND COTTON SPINDLE N 472200.3 - E 613112.7 E: FOUND 1/2" REBAR N 472221.1 - E 615763.9 F: FOUND COTTON SPINDLE N 472241.2 - E 618414.9 G: FOUND COTTON SPINDLE N 469587.2 - E 618442.8 H: FOUND COTTON SPINDLE N 466918.0 - E 618471.2 I: FOUND COTTON SPINDLE N 466898.7 - E 615806.4 J: FOUND 1/2" REBAR N 466881.6 - E 613142.8 K: FOUND 1/2" REBAR N 466874.6 - E 610479.4		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete <div style="border: 1px solid black; padding: 10px; text-align: center;">EXHIBIT 2</div> <div style="border: 1px solid black; padding: 5px;"> Signature <u>Bradley Bishop</u> Date <u>12-15-17</u> BRADLEY BISHOP Printed Name <u>BBISHOP@MEWBOURNE.COM</u> E-mail Address </div>	
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. <u>11-9-2017</u> Date of Survey Signature and Seal of Professional Surveyor		<div style="border: 2px solid black; padding: 10px; text-align: center;"> ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR </div> <u>19680</u> Certificate Number			

RRC - Job No.: LS1711723

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

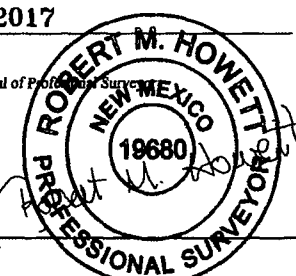
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-43497		² Pool Code 98220		³ Pool Name PURPLE SAGE WOLFCAMP GAS					
⁴ Property Code		⁵ Property Name WHITESNAKE 20/21 W2BC FEE						⁶ Well Number 1H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 3049'	
¹⁰ Surface Location									
UL or lot no. C	Section 20	Township 23S	Range 28E	Lot Idn	Feet from the 650	North/South line NORTH	Feet From the 2200	East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. C	Section 21	Township 23S	Range 28E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 2310	East/West line WEST	County EDDY
¹² Dedicated Acres 320 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

¹⁶ GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 471562.4 - E 610033.6 LAT: 32.2962029° N LONG: 104.1110072° W BOTTOM HOLE N 471888.5 - E 615424.0 LAT: 32.2970672° N LONG: 104.0935596° W CORNER DATA NAD 83 GRID - NM EAST A: FOUND 1/2" REBAR N 466867.5 - E 607843.9 B: FOUND 1/2" REBAR N 472216.9 - E 607832.7 C: FOUND 1/2" REBAR N 472210.9 - E 610473.4		CORNER DATA NAD 83 GRID - NM EAST D: FOUND COTTON SPINDLE N 472200.3 - E 613112.7 E: FOUND 1/2" REBAR N 472221.1 - E 615763.9 F: FOUND COTTON SPINDLE N 472241.2 - E 618414.9 G: FOUND COTTON SPINDLE N 466587.2 - E 618442.8 H: FOUND COTTON SPINDLE N 466918.0 - E 618471.2 I: FOUND COTTON SPINDLE N 466898.7 - E 615806.4 J: FOUND 1/2" REBAR N 466881.6 - E 613142.8 K: FOUND 1/2" REBAR N 466874.6 - E 610479.4		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. Signature _____ Date 11-27-17 BRADLEY BISHOP Printed Name BBISHOP@MEWBOURNE.COM 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. 11-9-2017 Date of Survey Signature and Seal of Professional Surveyor _____ 19680 Certificate Number				

RRC - Job No.:

LS1711722

Tract Ownership
Whitesnake 20/21 W0BC Fee #2H
Whitesnake 20/21 W2BC Fee #1H
NE/4 of Section 20, T23S, R28E and
NW/4 of Section 21, T23S, R28E
Eddy County, New Mexico

NE/4 of Section 20-23S-28E
And NW/4 of Section 21-23S-28E:

Ownership:

Mewbourne Oil Company, Operator, and
OXY USA WTP Limited Partnership, et al,
as Non-Operators

95.94375%

BNSF Railway Company

4.05625%*

Total:

100.00000%

Total Interest being force pooled: 4.05625%

* Denotes an interest that is being force pooled.

EXHIBIT 3

Summary of Communications
Whitesnake 20/21 W0BC Fee #2H
Whitesnake 20/21 W2BC Fee #1H
NE/4 of Section 20, T23S, R28E and
NW/4 of Section 21, T23S, R28E
Eddy County, New Mexico

BNSF Railway Company:

02/03/2016: Called the above listed party regarding an oil and gas lease.

02/03/2016 – 04/13/2016: Email correspondence with the above listed party regarding the terms of the oil and gas lease.

05/30/2017: Sent a Working Interest Unit and Well Proposal to the above listed party. We have not heard any response regarding the same to date.



MEWBOURNE OIL COMPANY

FASKEN CENTER
500 WEST TEXAS, SUITE 1020
MIDLAND, TEXAS 79701

TELEPHONE (432) 682-3715
FACSIMILE (432) 685-4170

March 30, 2017

Via FedEx

BNSF Railway Company
5110 S. Yale, Suite 400
Tulsa, OK 74135
Attn: Jennifer Kindred
Farmers National Company

Re: Whitesnake "20/21" Working Interest Unit Proposal
NE/4 of Section 20, T23S, R28E
NW/4 of Section 21, T23S, R28E
Eddy County, New Mexico

Whitesnake "20/21" W2BC Fee #1H AND
SL: 354' FNL & 2395' FEL (Sec. 20)
BHL: 330' FNL & 2310' FWL (Sec. 21)

Whitesnake "20/21" W0BC Fee #2H
SL: 400' FNL & 2395' FEL (Sec. 20)
BHL: 440' FNL & 2310' FWL (Sec. 21)

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") as Operator hereby proposes to form a 320.00 acre Working Interest Unit ("WIU") covering the NE/4 of the above captioned Section 20 and the NW/4 of the above captioned Section 21 for oil and gas production. Our records indicate that BNSF Railway Company ("BNSF") owns a 4.034375% working interest in the proposed WIU. The stated working interest figure is subject to adjustment per receipt of a title opinion covering the captioned lands.

In reference to the above, Mewbourne as Operator hereby proposes to drill the captioned wells at their referenced surface locations (SL) to their referenced bottom hole locations (BHL). The proposed Whitesnake "20/21" W2BC Fee #1H well will be drilled to a true vertical depth ("TVD") of approximately 10,436 feet subsurface and a horizontal measured depth ("MD") of approximately 14,750 feet subsurface to evaluate the Wolfcamp formation for oil and gas production. The NE/4 of the captioned Section 20 and the NW/4 of the captioned Section 21 will be dedicated to the well as the pooled oil proration unit and project area.

The proposed Whitesnake "20/21" W0BC Fee #2H well will be drilled to a true vertical depth ("TVD") of approximately 9,425 feet subsurface and a horizontal measured depth ("MD") of approximately 13,750 feet subsurface to evaluate the Wolfcamp formation for oil and gas production. The NE/4 of the captioned Section 20 and the NW/4 of the captioned Section 21 will be dedicated to the well as the pooled oil proration unit and project area.

Regarding the above, enclosed for your further handling are our AFE's dated April 7, 2017 for both the Whitesnake "20/21" W2BC Fee #1H well and Whitesnake "20/21" W0BC Fee #2H well. Please sign and return said AFE's at your earliest convenience if BNSF so elects to participate in the captioned wells and WIU.

A copy of our Joint Operating Agreement ("JOA") will follow under separate cover letter for your further handling and review in the near future. For your information, the proposed overhead rates found in the COPAS of our proposed JOA will be \$8,000 for drilling months and \$800 for non-drilling months.

Should you have any questions regarding the above, please email me at mrobb@mewbourne.com or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

A handwritten signature in black ink, appearing to read "Mitch Robb", written in a cursive style.

Mitch Robb
Landman

FedEx Shipment 779258667743 Delivered

TrackingUpdates@fedex.com

Wed 5/31/2017 1:56 PM

To: Mitchell Robb <mrobb@mewbourne.com>;



Your package has been delivered

Tracking # 779258667743

Ship date:
Tue, 5/30/2017

Mitch Robb
Mewbourne Oil Company
Midland, TX 79701
US



Delivered

Delivery date:
Wed, 5/31/2017 1:54
pm

**Jennifer Kindred/Farmers
NationalCo**
BNSF Railway Company
5110 S. Yale Suite 400
TULSA, OK 74135
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number:	<u>779258667743</u>
Status:	Delivered: 05/31/2017 1:54 PM Signed for By: V.HILL
Reference:	Whitesnake 20/21 WIU Proposal
Signed for by:	V.HILL
Delivery location:	TULSA, OK
Delivered to:	Receptionist/Front Desk
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Deliver Weekday
Standard transit:	5/31/2017 by 3:00 pm

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 1:56 PM CDT on 05/31/2017.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

Re: BNSF Railway OGL submission

JKindred@farmersnational.com

Mon 4/18/2016 3:46 PM

To: Mitchell Robb <mrobb@mewbourne.com>;

Good afternoon Robb,

BNSF will not use any other lease forms, other than their own. Thank you for your consideration!

Sincerely,

Jennifer Kindred, CMM
Mineral Manager
Farmers National Company
5110 S. Yale, Suite 400
Tulsa, OK 74135
Phone: (918) 895-8037
Fax: (918) 398-5901
jkindred@farmersnational.com

From: Mitchell Robb <mrobb@mewbourne.com>
To: "JKindred@farmersnational.com" <JKindred@farmersnational.com>
Date: 04/13/2016 11:07 AM
Subject: Re: BNSF Railway OGL submission

Jennifer,

I have spoken with my management team and your lease form isn't something that we are interested in accepting. I have attached our lease form that I sent you a few months back. Please let me know your thoughts.

Thanks,

Mitch

From: JKindred@farmersnational.com <JKindred@farmersnational.com>
Sent: Thursday, March 24, 2016 3:52 PM
To: Mitchell Robb
Subject: Re: BNSF Railway OGL submission

Hi Mitch,

Have you approved BNSF's lease form?

Thank you,

Jennifer Kindred, CMM
Senior Assistant Mineral Manager
Farmers National Company
5110 S. Yale, Suite 400
Tulsa, OK 74135
Phone: (918) 895-8037
Fax: (918) 398-5901
jkindred@farmersnational.com

From: Mitchell Robb <mrobb@mewbourne.com>
To: "JKindred@farmersnational.com" <JKindred@farmersnational.com>
Date: 03/22/2016 09:16 AM
Subject: Re: BNSF Railway OGL submission

Hi Jennifer,

I was just checking in to see if you have any update on our lease offer.

Thanks,

Mitch

From: JKindred@farmersnational.com <JKindred@farmersnational.com>
Sent: Thursday, February 4, 2016 2:17 PM
To: Mitchell Robb
Subject: Re: BNSF Railway OGL submission

Hi Mitch,

I am beginning to work up this lease offer. Please see BNSF's lease form attached for your review/approval. Let me know if you have any questions!

Thank you,

Jennifer Kindred, CMM
Senior Assistant Mineral Manager
Farmers National Company
5110 S. Yale, Suite 400
Tulsa, OK 74135
Phone: (918) 895-8037
Fax: (918) 398-5901
jkindred@farmersnational.com

From: Mitchell Robb <mrobb@mewbourne.com>
To: "JKindred@farmersnational.com" <JKindred@farmersnational.com>
Date: 02/03/2016 05:59 PM
Subject: Re: BNSF Railway OGL submission

Jennifer,

It was a pleasure speaking with you as well! Per your request, I have attached or listed the items that you need for a railroad oil and gas lease submission:

- Lease offer (attached)
- Lessee information (see attached lease)
- Legal Description (8.78 acres)
 - Section 21: A parcel of land being all that part of the Northwest quarter (NW/4) of said Section lying between the Easterly right-of-way line of The Atchison, Topeka and Santa Fe Railway Company, Clovis to Pecos line, and a line fifty (50) feet Southeasterly from and parallel with the main track to the United States Potash Company, and a line 50 feet Northerly from and parallel with the North leg of wye track and main track to said Potash Company, said center line of main track to said Potash Company being more particularly described as follows: Beginning at a point in said Railway Company's main track from Clovis to Pecos now located and established, said center line bearing North 20° 19' West (magnetic bearing), at Engineer's Station 4039+49; thence along a curve right, radius 942.29 feet, a distance of 1463 feet, to Engineer's Station 14+63; thence on a tangent bearing North 66° 41' East (magnetic bearing), a distance of 484.3 feet, to a point of Equality where Engineer's Station 22+70 ahead equals 19+47.3 back; thence continuing along the same tangent a distance of 847.5 feet, more or less, to a point in the North line of said Section Twenty-one (21), distant 1570 feet, more or less, East of the Northwest corner thereof, said center line of North leg of wye track being more particularly described as follows: Beginning at a point in the center line of said Railway Company's main track at Engineer's Station 4112+33.9, said center line bearing South 20° 19' East (magnetic bearing); thence along a curve left, radius 942.29 feet, a distance of 956 feet, more or less, to a point in the West line of said Section Twenty-one (21), distant 913 feet, more or less, South of the Northwest corner thereof; thence continuing along the same curve a distance of 539.9 feet, to a point in the above described center line of main track to the United States Potash Company at Engineer's Station 14+95.9, said parcel of land containing an area 8.78 acres, more or less.
- Source Deeds (attached)
- Plat Map (attached)
- I have also included the last Oil and Gas Lease that covered these lands but has since expired.

Please let me know if this is all the correct information you need.

I hope to hear back from you soon.

Thanks,

Mitch Robb
Petroleum Landman
Mewbourne Oil Company
Office: (432) 682-3715

Cell : (405) 394-8583
Email: mrobb@mewbourne.com

From: JKindred@farmersnational.com <JKindred@farmersnational.com>
Sent: Wednesday, February 3, 2016 4:56 PM
To: Mitchell Robb
Subject: BNSF Railway OGL submission

Mitch,

It was a pleasure speaking with you this afternoon! As discussed, I will need the following items for a railroad oil and gas lease submission:

- Lease offer
- Lessee information (exactly as needed on the lease)
- Legal description (and nma total)
- Source deeds
- Plat map

Let me know if you have any questions.

Thank you,

Jennifer Kindred, CMM
Senior Assistant Mineral Manager
Farmers National Company
5110 S. Yale, Suite 400
Tulsa, OK 74135
Phone: (918) 895-8037
Fax: (918) 398-5901
jkindred@farmersnational.com

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[attachment "Offer Letter.pdf" deleted by Jennifer Kindred/Farmers-National] [attachment "Lessee Information.pdf" deleted by Jennifer Kindred/Farmers-National] [attachment "Source Deed.pdf" deleted by Jennifer Kindred/Farmers-National] [attachment "Plat Map.pdf" deleted by Jennifer Kindred/Farmers-National] [attachment "Last O&G Lease.pdf" deleted by Jennifer Kindred/Farmers-National]

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[attachment "BNSF OGL.pdf" deleted by
Jennifer Kindred/Farmers-National]

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AUTHORIZATION FOR EXPENDITURE

File: Whitesnake 20-21 W0BC Fee 2H AFE.xls

MEWBORNE OIL COMPANY

AUTHORIZATION FOR EXPENDITURE

Well Name: Whitesnake 20/21 W2BC Fee #1H		Prospect: Wolfcamp	
Location: SL: 354' FNL & 2395' FEL (20); BHL 330' FNL & 2310' FWL (21)		County: Eddy	ST: NM
Sec. 20	Blk: 	Survey: 	TWP: 23S RNG: 28E Prop. TVD: 10436' TMD: 14750'

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$5,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$50,000	0180-0205	\$25,000
Location / Restoration		0180-0106	\$175,000	0180-0206	\$55,000
Daywork / Turnkey / Footage Drilling 22 days drlg / 3 days comp @ \$17,000/day		0180-0110	\$400,000	0180-0210	\$55,000
Fuel 1500 gal/day @ 1.90/gal		0180-0114	\$76,100		
Mud, Chemical & Additives		0180-0120	\$150,000	0180-0220	
Horizontal Drillout Services				0180-0222	\$75,000
Cementing		0180-0125	\$75,000	0180-0225	\$25,000
Logging & Wireline Services		0180-0130	\$3,000	0180-0230	\$170,000
Casing / Tubing / Snubbing Service		0180-0134	\$25,000	0180-0234	\$15,000
Mud Logging		0180-0137	\$15,000		
Stimulation 26 stg 10.8 MM gal x 10.8 MM#				0180-0241	\$2,050,000
Stimulation Rentals & Other				0180-0242	\$75,000
Water & Other		0180-0145	\$40,000	0180-0245	\$320,000
Bits		0180-0148	\$81,000	0180-0248	\$4,000
Inspection & Repair Services		0180-0150	\$35,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$15,000	0180-0258	\$25,000
Completion / Workover Rig 4 days @ \$3500/day				0180-0260	\$15,000
Rig Mobilization		0180-0164	\$160,000		
Transportation		0180-0165	\$20,000	0180-0265	\$12,000
Welding Services		0180-0168	\$5,000	0180-0268	\$5,000
Contract Services & Supervision		0180-0170		0180-0270	\$24,000
Directional Services Includes vertical control		0180-0175	\$145,000		
Equipment Rental		0180-0180	\$150,000	0180-0280	\$30,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$4,700	0180-0285	
Intangible Supplies		0180-0188	\$8,000	0180-0288	\$1,000
Damages		0180-0190	\$30,000	0180-0290	
ROW & Easements		0180-0192		0180-0292	\$20,000
Pipeline Interconnect				0180-0293	
Company Supervision		0180-0195	\$125,000	0180-0295	\$60,000
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Contingencies 10% (TCP) 5% (CC)		0180-0199	\$180,800	0180-0299	\$154,800
TOTAL			\$1,988,600		\$3,250,800

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0") 420' - 13 3/8" 54.5# J-55 ST&C @ \$28.51/ft		0181-0794	\$12,800		
Casing (8.1" - 10.0") 2400' - 9 5/8" 40# N-80 LT&C @ \$25.40/ft		0181-0795	\$65,200		
Casing (6.1" - 8.0") 10425' - 7" 26# P-110 LT&C @ \$18.90/ft		0181-0796	\$210,500		
Casing (4.1" - 6.0") 5075' - 4 1/2" 13.5# P-110 LT&C @ \$11.00/ft				0181-0797	\$59,700
Tubing (2" - 4")				0181-0798	
Drilling Head		0181-0860	\$30,000		
Tubing Head & Upper Section Includes 10K frac valve & tree				0181-0870	\$45,000
Horizontal Completion Tools				0181-0871	\$30,000
Sucker Rods				0181-0875	
Subsurface Equipment				0181-0880	
Artificial Lift Systems				0181-0884	
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers VRU & SWD pump				0181-0886	\$50,000
Tanks - Oil 3 - 750 steel				0181-0890	\$40,000
Tanks - Water 3 - 750 steel coated				0181-0891	\$45,000
Separation / Treating Equipment 36"x15"x1000# 3ph, 30"x10"x1000# 3 ph, GB				0181-0895	\$50,000
Heater Treaters, Line Heaters 6"x20"x75# heater treater				0181-0897	\$14,000
Metering Equipment				0181-0898	\$7,000
Line Pipe & Valves - Gathering				0181-0900	\$20,000
Fittings / Valves & Accessories				0181-0906	\$60,000
Cathodic Protection				0181-0908	\$4,000
Electrical Installation				0181-0909	\$50,000
Equipment Installation				0181-0910	\$35,000
Pipeline Construction				0181-0920	\$20,000
TOTAL			\$318,500		\$529,700
SUBTOTAL			\$2,307,100		\$3,780,500
TOTAL WELL COST			\$6,087,600		

Extra Expense Insurance

- ☐ I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
Operator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as estimated in Line Item 0180-0185.
- ☐ I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: <u>A. Taylor</u>	Date: <u>4/5/2017</u>
Company Approval: <u>M. Whittle</u>	Date: <u>4/7/2017</u>
Joint Owner Interest: <u>4.03437500%</u> Amount: <u>\$245,596.61</u>	Signature: _____
Joint Owner Name: <u>BNSF Railway Company</u>	

AUTHORIZATION FOR EXPENDITURE

EXHIBIT 5

MEWBORNE OIL COMPANY

AUTHORIZATION FOR EXPENDITURE

Well Name: Whitesnake 20/21 W0BC Fee #2H		Prospect: Wolfcamp	
Location: SL: 400' FNL & 2395' FEL (20); BHL 400' FNL & 2310' FWL (21)		County: Eddy	ST: NM
Sec: 20	Blk:	Survey:	TWP: 23S RNG: 28E Prop. TVD: 9425 TMD: 13750

INTANGIBLE COSTS 0180		CODE	TCP	CODE	CC
Regulatory Permits & Surveys		0180-0100	\$5,000	0180-0200	
Location / Road / Site / Preparation		0180-0105	\$15,000	0180-0205	\$25,000
Location / Restoration		0180-0106	\$175,000	0180-0206	\$55,000
Daywork / Turnkey / Footage Drilling 20 days drlg / 3 days comp @ \$17,000/day		0180-0110	\$364,000	0180-0210	\$55,000
Fuel 1500 gal/day @ 1.90/gal		0180-0114	\$69,000		
Mud, Chemical & Additives		0180-0120	\$145,000	0180-0220	
Horizontal Drillout Services				0180-0222	\$75,000
Cementing		0180-0125	\$70,000	0180-0225	\$25,000
Logging & Wireline Services		0180-0130	\$3,000	0180-0230	\$170,000
Casing / Tubing / Snubbing Service		0180-0134	\$25,000	0180-0234	\$15,000
Mud Logging		0180-0137	\$15,000		
Stimulation 26 stg 10.8 MM gal x 10.8 MM#				0180-0241	\$1,700,000
Stimulation Rentals & Other				0180-0242	\$75,000
Water & Other		0180-0145	\$40,000	0180-0245	\$320,000
Bits		0180-0148	\$81,000	0180-0248	\$4,000
Inspection & Repair Services		0180-0150	\$35,000	0180-0250	\$5,000
Misc. Air & Pumping Services		0180-0154		0180-0254	\$10,000
Testing & Flowback Services		0180-0158	\$15,000	0180-0258	\$25,000
Completion / Workover Rig 4 days @ \$3500/day				0180-0260	\$15,000
Rig Mobilization		0180-0164	\$40,000		
Transportation		0180-0165	\$20,000	0180-0265	\$12,000
Welding Services		0180-0168	\$5,000	0180-0268	\$5,000
Contract Services & Supervision		0180-0170		0180-0270	\$24,000
Directional Services Includes vertical control		0180-0175	\$145,000		
Equipment Rental		0180-0180	\$150,000	0180-0280	\$30,000
Well / Lease Legal		0180-0184	\$5,000	0180-0284	
Well / Lease Insurance		0180-0185	\$4,700	0180-0285	
Intangible Supplies		0180-0188	\$8,000	0180-0288	\$1,000
Damages		0180-0190	\$30,000	0180-0290	
ROW & Easements		0180-0192		0180-0292	\$20,000
Pipeline Interconnect				0180-0293	
Company Supervision		0180-0195	\$125,000	0180-0295	\$60,000
Overhead Fixed Rate		0180-0196	\$10,000	0180-0296	\$20,000
Well Abandonment		0180-0198		0180-0298	
Contingencies 10% (TCP) 5% (CC)		0180-0199	\$160,000	0180-0299	\$137,300
TOTAL			\$1,759,700		\$2,883,300

TANGIBLE COSTS 0181		CODE	TCP	CODE	CC
Casing (19.1" - 30")		0181-0793			
Casing (10.1" - 19.0") 420' - 13 3/8" 54.5# J-55 ST&C @ \$28.51/ft		0181-0794	\$12,800		
Casing (8.1" - 10.0") 2400' - 9 5/8" 40# N-80 LT&C @ \$25.40/ft		0181-0795	\$65,200		
Casing (6.1" - 8.0") 9600' - 7" 26# P-110 LT&C @ \$18.90/ft		0181-0796	\$194,000		
Casing (4.1" - 6.0") 5075' - 4 1/2" 13.5# P-110 LT&C @ \$11.00/ft				0181-0797	\$59,700
Tubing (2" - 4")				0181-0798	
Drilling Head		0181-0860	\$30,000		
Tubing Head & Upper Section Includes 10K frac valve & tree				0181-0870	\$45,000
Horizontal Completion Tools				0181-0871	\$30,000
Sucker Rods				0181-0875	
Subsurface Equipment				0181-0880	
Artificial Lift Systems				0181-0884	
Pumping Unit				0181-0885	
Surface Pumps & Prime Movers VRU & SWD pump				0181-0886	\$50,000
Tanks - Oil 3 - 750 steel				0181-0890	\$40,000
Tanks - Water 3 - 750 steel coated				0181-0891	\$45,000
Separation / Treating Equipment 36"x15"x1000# 3ph, 30"x10"x1000# 3 ph, GB				0181-0895	\$50,000
Heater Treaters, Line Heaters 6"x20"x75# heater treater				0181-0897	\$14,000
Metering Equipment				0181-0898	\$7,000
Line Pipe & Valves - Gathering				0181-0900	\$20,000
Fittings / Valves & Accessories				0181-0906	\$40,000
Cathodic Protection				0181-0908	\$4,000
Electrical Installation				0181-0909	\$50,000
Equipment Installation				0181-0910	\$35,000
Pipeline Construction				0181-0920	\$20,000
TOTAL			\$302,000		\$509,700
SUBTOTAL			\$2,061,700		\$3,393,000
TOTAL WELL COST			\$5,454,700		

Extra Expense Insurance: <input type="checkbox"/> I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium. Operator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as estimated in Line Item 0180-0185.	
<input type="checkbox"/> I elect to purchase my own well control insurance policy.	
If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.	
Prepared by: <u>A. Taylor</u>	Date: <u>4/5/2017</u>
Company Approval: <u>M. Whittier</u>	Date: <u>4/7/2017</u>
Joint Owner Interest: <u>4.03437500%</u> Amount: <u>\$220,063.05</u>	Signature: _____
Joint Owner Name: <u>BNSF Railway Company</u>	

EXHIBIT

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

November 29, 2017

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

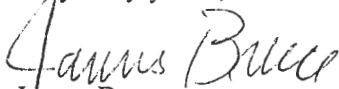
Ladies and gentlemen:

Enclosed is a copy of an application for a non-standard unit and compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding a Wolfcamp well in the NE/4 of Section 20 and the NW/4 of Section 21, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.

This matter is scheduled for hearing at 8:15 a.m. on Thursday, December 21, 2017, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest who may be affected by the application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting this matter at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, December 14, 2017. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and his or her attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing

Very truly yours,


James Bruce

Attorney for Mewbourne Oil Company

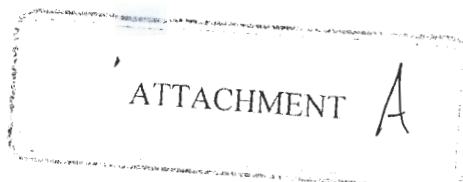


EXHIBIT A

BNSF Railway Company
Suite 400
5110 South Yale
Tulsa, Oklahoma 74135

Attention: Jennifer Kindred

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BNSF Railway Company
Suite 400
5110 South Yale
Tulsa, Oklahoma 74135



9590 9402 3019 7124 7246 59

2. Article Number (Transfer from service label)

7017 0190 0000 8402 5518

(over \$500)

Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

M-white

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature

☐ Adult Signature Restricted Delivery

☒ Certified Mail®

☐ Certified Mail Restricted Delivery

☐ Collect on Delivery

☐ Collect on Delivery Restricted Delivery

☐ Priority Mail Express®

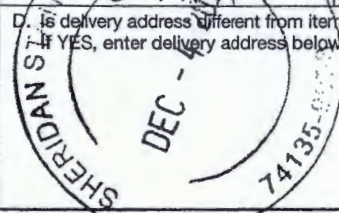
☐ Registered Mail™

☐ Registered Mail Restricted Delivery

☐ Return Receipt for Merchandise

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery



7017 0190 0000 8402 5518

U.S. Postal Service™

CERTIFIED MAIL®

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$

☐ Return Receipt (electronic) \$

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To BNSF Railway Company

Suite 400

5110 South Yale

Tulsa, Oklahoma 74135

City, State, ZIP+4®

Postmark
Here

EXHIBIT A

Section 17

Mewbourne Oil Company

OXY USA Inc.
OXY USA WTP L.P.
Suite 110
5 Greenway Plaza
Houston, Texas 77046

COG Operating LLC
600 West Illinois
Midland, Texas 79701

Section 16

EOG Y Resources, Inc.
5509 Champions Drive
Midland, Texas 79706

E/2 Section 21

Mewbourne Oil Company

SW/4 Section 21

Kaiser-Francis Oil Company
P.O. Box 21468
Tulsa, Oklahoma 74121

SE/4 Section 2D

MRC Permian LKE Company, LLC
Suite 1500
5400 LBJ Freeway
Dallas, Texas 75240

Kaiser-Francis Oil Company

W/2 Section 20

Marathon Oil Permian LLC
5555 San Felipe Street
Houston, Texas 77056

EXHIBIT

7

MEWBOURNE OIL COMPANY

FASKEN CENTER
500 WEST TEXAS, SUITE 1020
MIDLAND, TX 79701

TELEPHONE (432) 682-3715
FACSIMILE (432) 685-4170

November 28, 2017

Marathon Oil Permian LLC
5555 San Felipe St.
Houston, TX 77056
Attn: Matt Brown

Re: Mewbourne's Whitesnake 20/21 Prospect
NE/4 of Section 20, T23S, R28E
NW/4 of Section 21, T23S, R28E
Eddy County, New Mexico

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division concerning its proposed Whitesnake 20/21 W2BC Fee #1H and the Whitesnake 20/21 W0BC Fee #2H.

In order to clarify that no acreage in Sections 20 & 21, T23S, R28E, Eddy County, NM will be stranded, Mewbourne is seeking the support of Marathon Oil Permian LLC ("Marathon") to continue with its current development plan of the NE/4 of the captioned Section 20 and the NW/4 of the captioned Section 21 and to clarify that it is Marathon's intention to develop the W/2 of the captioned Section 20.

Please indicate your support and intent by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at mrobb@mewbourne.com or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY



Mitch Robb
Landman

EXHIBIT 7-1

Marathon Oil Permian LLC

Name: 

CHASE RICE

Title: Sr. Land Professional - Permian

Hereby supports Mewbourne Oil Company as Operator of NE/4 of Section 20 and the NW/4 of Section 21, T23S, R28E, Eddy County, NM.

MEWBOURNE OIL COMPANY

FASKEN CENTER
500 WEST TEXAS, SUITE 1020
MIDLAND, TX 79701

TELEPHONE (432) 682-3715
FACSIMILE (432) 685-4170

November 28, 2017

Kaiser Francis Oil Company
Attn: Mr. Mike Maxey
P.O. Box 21468
Tulsa, Oklahoma 74121-1468

Re: Mewbourne's Whitesnake 20/21 Prospect
NE/4 of Section 20, T23S, R28E
NW/4 of Section 21, T23S, R28E
Eddy County, New Mexico

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division concerning its proposed Whitesnake 20/21 W2BC Fee #1H and the Whitesnake 20/21 W0BC Fee #2H.

In order to clarify that no acreage in Sections 20 & 21, T23S, R28E, Eddy County, NM will be stranded, Mewbourne is seeking the support of Kaiser Francis Oil Company ("Kaiser") to continue with its current development plan of the NE/4 of the captioned Section 20 and the NW/4 of the captioned Section 21 and to clarify that it is Kaiser's intention to develop the SE/4 of the captioned Section 20 and the SW/4 of the captioned Section 21.

Please indicate your support and intent by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at mrobb@mewbourne.com or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY



Mitch Robb
Landman

Kaiser Francis Oil Company

Name: Thomas R. Redman

Title: Thomas R. Redman
Exec. VP & COO

Hereby supports Mewbourne Oil Company as Operator of NE/4 of Section 20 and the NW/4 of Section 21, T23S, R28E, Eddy County, NM.

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 Grande 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
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

NOV 17 2017
AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44566	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 320063	⁵ Property Name MARINER FEE 23-28-20 WA	⁶ Well Number 14H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3075

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
N	20	T23S	R28E		233	SOUTH	1382	WEST	EDDY

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
C	20	T23S	R28E		330	NORTH	1650	WEST	EDDY

¹² Dedicated Acres 320.00	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>¹⁶</p> <p>SECTION 18 SECTION 19 1650'</p> <p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 1654' FVL NAD 83, SPCS NM EAST X:609483.78' / Y:471883.03' LAT:32.29708738N / LON:104.11278428W NAD 27, SPCS NM EAST X:568961.43' / Y:471821.60' LAT:32.29695682N / LON:104.11015121W</p> <p>SECTION 17 SECTION 20</p> <p>FIRST TAKE POINT 330' FSL 1654' FVL NAD 83, SPCS NM EAST X:609497.62' / Y:467201.87' LAT:32.28421942N / LON:104.11277065W NAD 27, SPCS NM EAST X:568979.37' / Y:467144.63' LAT:32.28410008N / LON:104.11012469W</p> <p>SURFACE HOLE LOCATION 233' FSL 1382' FVL NAD 83, SPCS NM EAST X:609224.98' / Y:467104.06' LAT:32.28395209N / LON:104.11363334W NAD 27, SPCS NM EAST X:568807.27' / Y:467045.99' LAT:32.28393153N / LON:104.11306062W</p> <p>SECTION 16 SECTION 21</p> <p>CALLED 32000 ACRE PRODUCING AREA</p> <p>330'</p> <p>1654' 1382'</p> <p>SECTION 19 SECTION 30</p> <p>330'</p> <p>233'</p> <p>CORNER COORDINATES NAD 83, SPCS NM EAST A - Y: 472218.86' / X: 607832.81' B - Y: 472209.54' / X: 610472.79' C - Y: 466874.52' / X: 610493.37' D - Y: 466867.47' / X: 607843.83'</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST A - Y: 472159.78' / X: 566630.24' B - Y: 472150.42' / X: 569290.18' C - Y: 466815.54' / X: 569310.63' D - Y: 466808.52' / X: 566661.13'</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 unless 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><i>Jennifer Van Curen</i> 11/14/17 Signature Date</p> <p>JENNIFER VAN CUREN Printed Name</p> <p>jvancuren@marathonoil.com 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>NOVEMBER 01, 2017 Date of Survey</p> <p>Signature and Seal of Professional Surveyor LLOYD P. SHORT NEW MEXICO 21653 PROFESSIONAL SURVEYOR</p> <p>Certificate Number LLOYD P. SHORT, 21653</p>
---	--	---

EXHIBIT

8

21-21-1



Professional Engineer Seal for Lloyd P. Short, New Mexico, No. 21653.

8/11/21-15

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

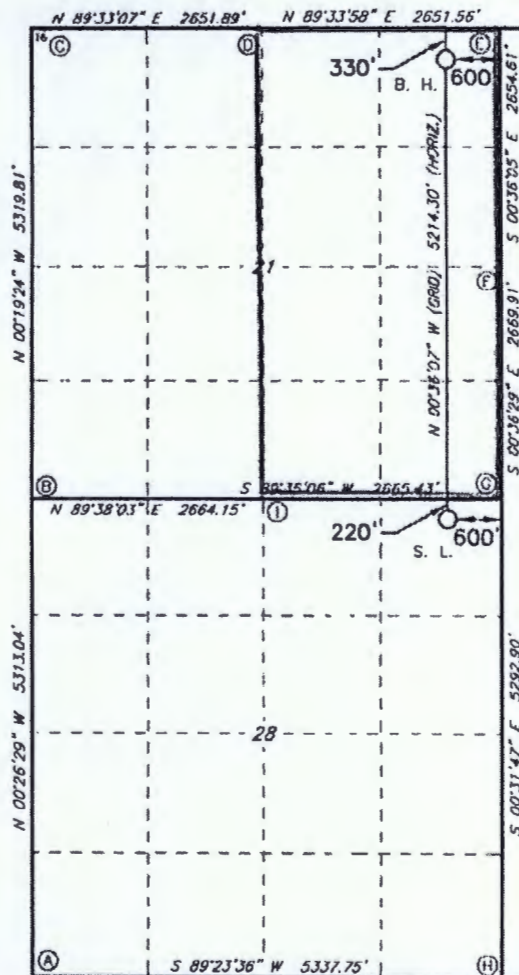
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-43495		2 Pool Code 98220		3 Pool Name Purple Sage; Wolfcamp (gas)		
4 Property Code 315708		5 Property Name LOVING TOWNSITE 21 WOPA FEE			6 Well Number 2H	
7 GRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3038'	
10 Surface Location						
UL or lot no. A	Section 28	Township 23S	Range 28E	Lot Idn	Feet from the 220	North/South line NORTH
					Feet From the 600	East/West line EAST
						County EDDY
11 Bottom Hole Location If Different From Surface						
UL or lot no. 3A	Section 21	Township 23S	Range 28E	Lot Idn	Feet from the 3306	North/South line NORTH
					Feet from the 600 396	East/West line EAST
						County EDDY
12 Dedicated Acres 320		13 Joint or Infill		14 Consolidation Code		15 Order No.

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



GEODETIC DATA
NAD 27 GRID - NM EAST
SURFACE LOCATION
N: 466634.7 - E: 576690.5
LAT: 32.28265158° N
LONG: 104.08517642° W
BOTTOM HOLE
N: 471847.5 - E: 576635.7
LAT: 32.29698170° N
LONG: 104.08531465° W
CORNER DATA
NAD 27 GRID - NM EAST
A: FOUND 1000 NAIL
N: 461510.9 - E: 572001.0
B: FOUND 1/2" REBAR
N: 466822.6 - E: 571960.1
C: FOUND COTTON SPINDLE
N: 472141.1 - E: 571930.0
D: FOUND YPC ILLEGABLE
N: 472161.9 - E: 574581.2
E: FOUND COTTON SPINDLE
N: 472182.0 - E: 577232.1
F: FOUND COTTON SPINDLE
N: 469528.1 - E: 577260.0
G: FOUND COTTON SPINDLE
N: 466858.9 - E: 577288.3
H: FOUND 1/2" REBAR
N: 461567.5 - E: 577337.2
I: FOUND COTTON SPINDLE
N: 466839.6 - E: 574623.6

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.

Jackie Lathan 6/12/17
Signature Date
Printed Name
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

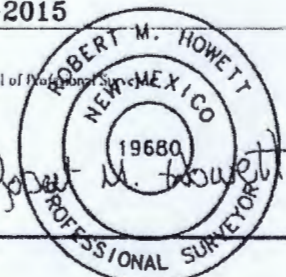
11-05-2015

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1508448

9

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

November 30, 2017

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

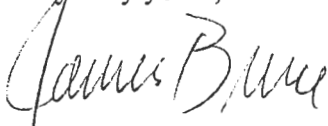
Ladies and gentlemen:

Enclosed is a copy of an application for a non-standard unit, *etc.*, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding a Wolfcamp well in the NE/4 of Section 20 and the NW/4 of Section 21, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.

The matter is scheduled for hearing at 8:15 a.m. on Thursday, December 21, 2017, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend the hearing, but **as an offset operator or interest owner** who may be affected by the application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting this matter at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Thursday, December 14, 2017. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and his or her attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing.

Very truly yours,


James Bruce

Attorney for Mewbourne Oil Company

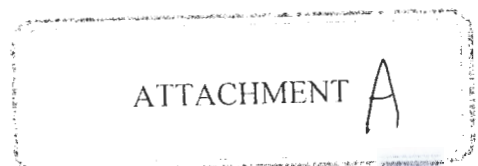


EXHIBIT A

Section 17

Mewbourne Oil Company

OXY USA Inc.
OXY USA WTP L.P.
Suite 110
5 Greenway Plaza
Houston, Texas 77046

COG Operating LLC
600 West Illinois
Midland, Texas 79701

Section 16

EOG Y Resources, Inc.
5509 Champions Drive
Midland, Texas 79706

E/2 Section 21

Mewbourne Oil Company

SW/4 Section 21

Kaiser-Francis Oil Company
P.O. Box 21468
Tulsa, Oklahoma 74121

SE/4 Section 20

MRC Permian LKE Company, LLC
Suite 1500
5400 LBJ Freeway
Dallas, Texas 75240

Kaiser-Francis Oil Company

W/2 Section 20

Marathon Oil Permian LLC
5555 San Felipe Street
Houston, Texas 77056

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Kaiser-Francis Oil Company
P.O. Box 21468
Tulsa, Oklahoma 74121



9590 9402 2691 6351 8943 03

2. Article

7017 0190 0000 8403 2530

Certified Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

Kaiser-Francis

C. Date of Delivery

DEC 6 5 2017

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

U.S. Postal Service™

CERTIFIED MAIL®

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)

\$

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

\$

Total Postage and Fees

\$

Sent To

Marathon Oil Permian LLC

5555 San Felipe Street

Houston, Texas 77056

Street and Apt. No., or

City, State, ZIP+4®

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7017 0190 0000 8403 2530

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Marathon Oil Permian LLC
5555 San Felipe Street
Houston, Texas 77056



9590 9402 2691 6351 8943 27

2. Article Number (Transfer from service label)

7017 0190 0000 8403 2530

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

MARCO CANCEY

C. Date of Delivery

12-5-17

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

Mail

Restricted Delivery

m white

Domestic Return Receipt

7017 0190 0000 8403 2530

U.S. Postal Service™

CERTIFIED MAIL®

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)

\$

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

\$

Total Postage and Fees

\$

Sent To

Kaiser-Francis Oil Company
P.O. Box 21468
Tulsa, Oklahoma 74121

Street and Apt. No., or

City, State, ZIP+4®

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MRC Permian LKE Company, LLC
Suite 1500
5400 LBJ Freeway
Dallas, Texas 75240



9590 9402 2691 6351 8943 10

2. Article Number (Transfer from service label)

7017 0190 0000 8403 2523

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Kayla Rouse*

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

U.S. Postal Service™

CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

- ☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To MRC Permian LKE Company, LLC

Suite 1500

Street and Apt. No., or 5400 LBJ Freeway

Dallas, Texas 75240

City, State, ZIP+4®

Postmark
Here

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

7017 0190 0000 8403 2523

7017 0190 0000 8403 2561

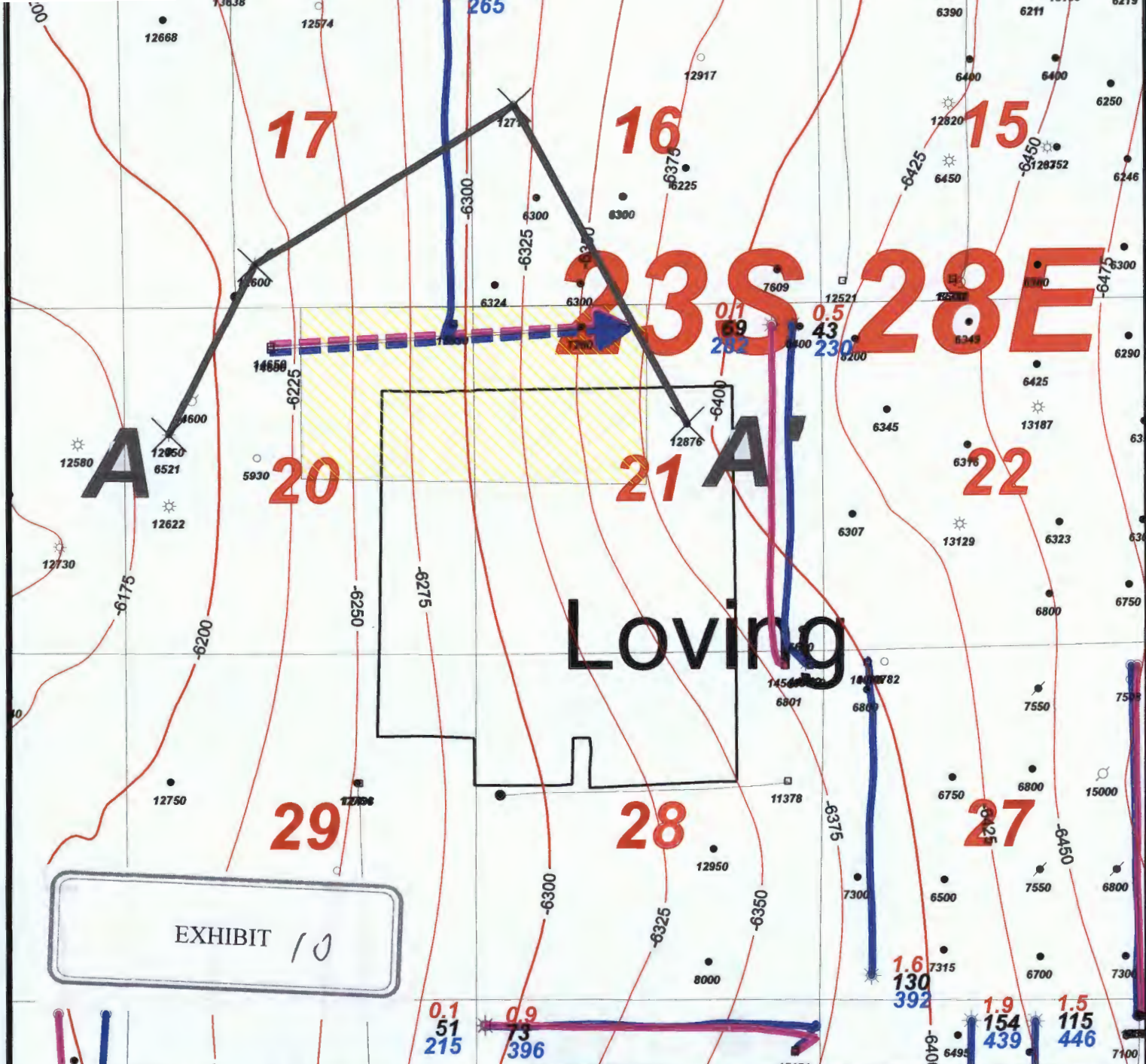
U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To	OXY USA Inc.
Street and Apt. No., or PO Box	OXY USA WTP L.P. Suite 110
City, State, ZIP+4®	5 Greenway Plaza Houston, Texas 77046
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7017 0190 0000 8403 2554

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To	COG Operating LLC
Street and Apt. No., or PO Box	600 West Illinois
City, State, ZIP+4®	Midland, Texas 79701
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7017 0190 0000 8403 2547

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee \$	Postmark Here
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy) \$	
<input type="checkbox"/> Return Receipt (electronic) \$	
<input type="checkbox"/> Certified Mail Restricted Delivery \$	
<input type="checkbox"/> Adult Signature Required \$	
<input type="checkbox"/> Adult Signature Restricted Delivery \$	
Postage \$	
Total Postage and Fees \$	
Sent To	EOG Resources, Inc.
Street and Apt. No., or PO Box	5509 Champions Drive
City, State, ZIP+4®	Midland, Texas 79706
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



Wolfcamp Horizontal Color Code

- Wolfcamp Sand
- Wolfcamp Shale

WFMP Sand WFMP Shale

MOC Mewbourne Oil Company

Whitesnake W0BC 2H & Whitesnake W2BC 1H

WFMP Activity

Top of WFMP Sand

Whitesnake 20-21 Wolfcamp Horizontal Production Data Table[illegible]

EXHIBIT 12

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Whitesnake 20/21 W0BC Fee #1H

Sec 20, T23S, R28E

SL: 600' FNL & 2200' FWL, Sec 20

BHL: 330' FNL & 2321' FWL, Sec 21

Plan: Design #1

Standard Planning Report

01 December, 2017

EXHIBIT / 3

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Whitesnake 20/21 W0BC Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3076.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3076.0usft (Original Well Elev)
Site:	Whitesnake 20/21 W0BC Fee #1H	North Reference:	Grid
Well:	Sec 20, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2321' FWL, Sec 21		
Design:	Design #1		

Project	Eddy 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: Whitesnake 20/21 W0BC Fee #1H					
Site Position:		Northing:	471,612.00 usft	Latitude:	32° 17' 46.821 N
From:	Map	Easting:	610,033.00 usft	Longitude:	104° 6' 39.631 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	Sec 20, T23S, R28E					
Well Position	+N/-S	0.0 usft	Northing:	471,612.00 usft	Latitude:	32° 17' 46.821 N
	+E/-W	0.0 usft	Easting:	610,033.00 usft	Longitude:	104° 6' 39.631 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,076.0 usft	Ground Level:	3,049.0 usft

Wellbore	BHL: 330' FNL & 2321' FWL, Sec 21				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/1/2017	7.04	60.00	47,960

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	87.06

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,450.0	0.00	0.00	2,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,643.2	3.86	22.35	2,643.1	6.0	2.5	2.00	2.00	0.00	22.35	
6,781.5	3.86	22.35	6,771.9	264.0	108.5	0.00	0.00	0.00	0.00	
6,974.7	0.00	0.00	6,965.0	270.0	111.0	2.00	-2.00	0.00	180.00	KOP: 330' FNL & 231
8,972.2	0.00	0.00	8,962.5	270.0	111.0	0.00	0.00	0.00	0.00	
9,708.0	88.25	89.92	9,440.0	270.6	574.1	11.99	11.99	0.00	89.92	
14,527.1	88.25	89.92	9,587.0	277.0	5,391.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 232'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Whitesnake 20/21 W0BC Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3076.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3076.0usft (Original Well Elev)
Site:	Whitesnake 20/21 W0BC Fee #1H	North Reference:	Grid
Well:	Sec 20, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2321' FWL, Sec 21		
Design:	Design #1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 600' FNL & 2200' FWL, Sec 20									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,450.0	0.00	0.00	2,450.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	1.00	22.35	2,500.0	0.4	0.2	0.2	2.00	2.00	0.00
2,600.0	3.00	22.35	2,599.9	3.6	1.5	1.7	2.00	2.00	0.00
2,643.2	3.86	22.35	2,643.1	6.0	2.5	2.8	2.00	2.00	0.00
2,700.0	3.86	22.35	2,699.7	9.6	3.9	4.4	0.00	0.00	0.00
2,800.0	3.86	22.35	2,799.5	15.8	6.5	7.3	0.00	0.00	0.00
2,900.0	3.86	22.35	2,899.3	22.0	9.1	10.2	0.00	0.00	0.00
3,000.0	3.86	22.35	2,999.0	28.3	11.6	13.1	0.00	0.00	0.00
3,100.0	3.86	22.35	3,098.8	34.5	14.2	15.9	0.00	0.00	0.00
3,200.0	3.86	22.35	3,198.6	40.7	16.7	18.8	0.00	0.00	0.00
3,300.0	3.86	22.35	3,298.4	47.0	19.3	21.7	0.00	0.00	0.00
3,400.0	3.86	22.35	3,398.1	53.2	21.9	24.6	0.00	0.00	0.00
3,500.0	3.86	22.35	3,497.9	59.4	24.4	27.4	0.00	0.00	0.00
3,600.0	3.86	22.35	3,597.7	65.7	27.0	30.3	0.00	0.00	0.00
3,700.0	3.86	22.35	3,697.5	71.9	29.6	33.2	0.00	0.00	0.00
3,800.0	3.86	22.35	3,797.2	78.1	32.1	36.1	0.00	0.00	0.00
3,900.0	3.86	22.35	3,897.0	84.4	34.7	39.0	0.00	0.00	0.00
4,000.0	3.86	22.35	3,996.8	90.6	37.2	41.8	0.00	0.00	0.00
4,100.0	3.86	22.35	4,096.5	96.8	39.8	44.7	0.00	0.00	0.00
4,200.0	3.86	22.35	4,196.3	103.1	42.4	47.6	0.00	0.00	0.00
4,300.0	3.86	22.35	4,296.1	109.3	44.9	50.5	0.00	0.00	0.00
4,400.0	3.86	22.35	4,395.9	115.5	47.5	53.4	0.00	0.00	0.00
4,500.0	3.86	22.35	4,495.6	121.8	50.1	56.2	0.00	0.00	0.00
4,600.0	3.86	22.35	4,595.4	128.0	52.6	59.1	0.00	0.00	0.00
4,700.0	3.86	22.35	4,695.2	134.2	55.2	62.0	0.00	0.00	0.00
4,800.0	3.86	22.35	4,794.9	140.5	57.7	64.9	0.00	0.00	0.00
4,900.0	3.86	22.35	4,894.7	146.7	60.3	67.8	0.00	0.00	0.00
5,000.0	3.86	22.35	4,994.5	152.9	62.9	70.6	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Whitesnake 20/21 W0BC Fee #1H
Well: Sec 20, T23S, R28E
Wellbore: BHL: 330' FNL & 2321' FWL, Sec 21
Design: Design #1

Local Co-ordinate Reference: Site Whitesnake 20/21 W0BC Fee #1H
TVD Reference: WELL @ 3076.0usft (Original Well Elev)
MD Reference: WELL @ 3076.0usft (Original Well Elev)
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)
5,100.0	3.86	22.35	5,094.3	159.2	65.4	73.5	0.00	0.00	0.00
5,200.0	3.86	22.35	5,194.0	165.4	68.0	76.4	0.00	0.00	0.00
5,300.0	3.86	22.35	5,293.8	171.6	70.6	79.3	0.00	0.00	0.00
5,400.0	3.86	22.35	5,393.6	177.9	73.1	82.2	0.00	0.00	0.00
5,500.0	3.86	22.35	5,493.4	184.1	75.7	85.0	0.00	0.00	0.00
5,600.0	3.86	22.35	5,593.1	190.3	78.2	87.9	0.00	0.00	0.00
5,700.0	3.86	22.35	5,692.9	196.6	80.8	90.8	0.00	0.00	0.00
5,800.0	3.86	22.35	5,792.7	202.8	83.4	93.7	0.00	0.00	0.00
5,900.0	3.86	22.35	5,892.4	209.0	85.9	96.5	0.00	0.00	0.00
6,000.0	3.86	22.35	5,992.2	215.3	88.5	99.4	0.00	0.00	0.00
6,100.0	3.86	22.35	6,092.0	221.5	91.1	102.3	0.00	0.00	0.00
6,200.0	3.86	22.35	6,191.8	227.7	93.6	105.2	0.00	0.00	0.00
6,300.0	3.86	22.35	6,291.5	234.0	96.2	108.1	0.00	0.00	0.00
6,400.0	3.86	22.35	6,391.3	240.2	98.7	110.9	0.00	0.00	0.00
6,500.0	3.86	22.35	6,491.1	246.4	101.3	113.8	0.00	0.00	0.00
6,600.0	3.86	22.35	6,590.9	252.7	103.9	116.7	0.00	0.00	0.00
6,700.0	3.86	22.35	6,690.6	258.9	106.4	119.6	0.00	0.00	0.00
6,781.5	3.86	22.35	6,771.9	264.0	108.5	121.9	0.00	0.00	0.00
6,800.0	3.49	22.35	6,790.4	265.1	109.0	122.4	2.00	-2.00	0.00
6,900.0	1.49	22.35	6,890.3	269.1	110.6	124.3	2.00	-2.00	0.00
6,974.7	0.00	0.00	6,965.0	270.0	111.0	124.7	2.00	-2.00	0.00
KOP: 330' FNL & 2310' FWL, Sec 20									
7,000.0	0.00	0.00	6,990.3	270.0	111.0	124.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,090.3	270.0	111.0	124.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,190.3	270.0	111.0	124.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,290.3	270.0	111.0	124.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,390.3	270.0	111.0	124.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,490.3	270.0	111.0	124.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,590.3	270.0	111.0	124.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,690.3	270.0	111.0	124.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,790.3	270.0	111.0	124.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,890.3	270.0	111.0	124.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,990.3	270.0	111.0	124.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,090.3	270.0	111.0	124.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,190.3	270.0	111.0	124.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,290.3	270.0	111.0	124.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,390.3	270.0	111.0	124.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,490.3	270.0	111.0	124.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,590.3	270.0	111.0	124.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,690.3	270.0	111.0	124.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,790.3	270.0	111.0	124.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,890.3	270.0	111.0	124.7	0.00	0.00	0.00
8,972.2	0.00	0.00	8,962.5	270.0	111.0	124.7	0.00	0.00	0.00
9,000.0	3.33	89.92	8,990.3	270.0	111.8	125.5	11.99	11.99	0.00
9,100.0	15.32	89.92	9,088.8	270.0	128.0	141.7	11.99	11.99	0.00
9,200.0	27.32	89.92	9,181.8	270.1	164.3	177.9	11.99	11.99	0.00
9,300.0	39.31	89.92	9,265.2	270.1	219.1	232.7	11.99	11.99	0.00
9,400.0	51.31	89.92	9,335.4	270.2	290.1	303.5	11.99	11.99	0.00
9,500.0	63.30	89.92	9,389.3	270.3	374.1	387.4	11.99	11.99	0.00
9,600.0	75.30	89.92	9,424.6	270.5	467.4	480.7	11.99	11.99	0.00
9,700.0	87.29	89.92	9,439.7	270.6	566.1	579.2	11.99	11.99	0.00
9,708.0	88.25	89.92	9,440.0	270.6	574.1	587.2	11.99	11.99	0.00
LP: 330' FNL & 2507' FEL, Sec 20									
9,800.0	88.25	89.92	9,442.8	270.7	666.1	679.1	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Whitesnake 20/21 W0BC Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3076.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3076.0usft (Original Well Elev)
Site:	Whitesnake 20/21 W0BC Fee #1H	North Reference:	Grid
Well:	Sec 20, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2321' FWL, Sec 21		
Design:	Design #1		

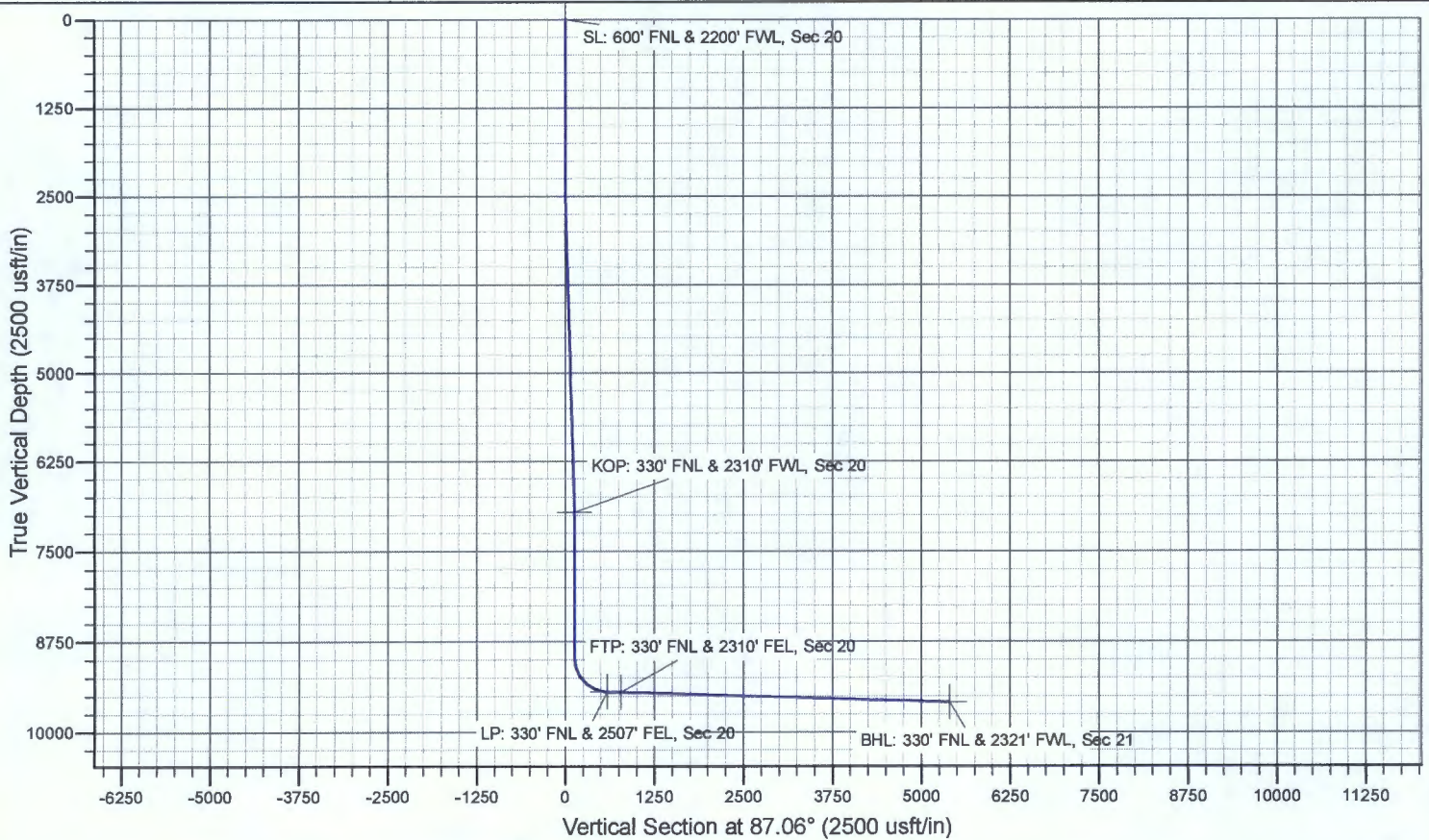
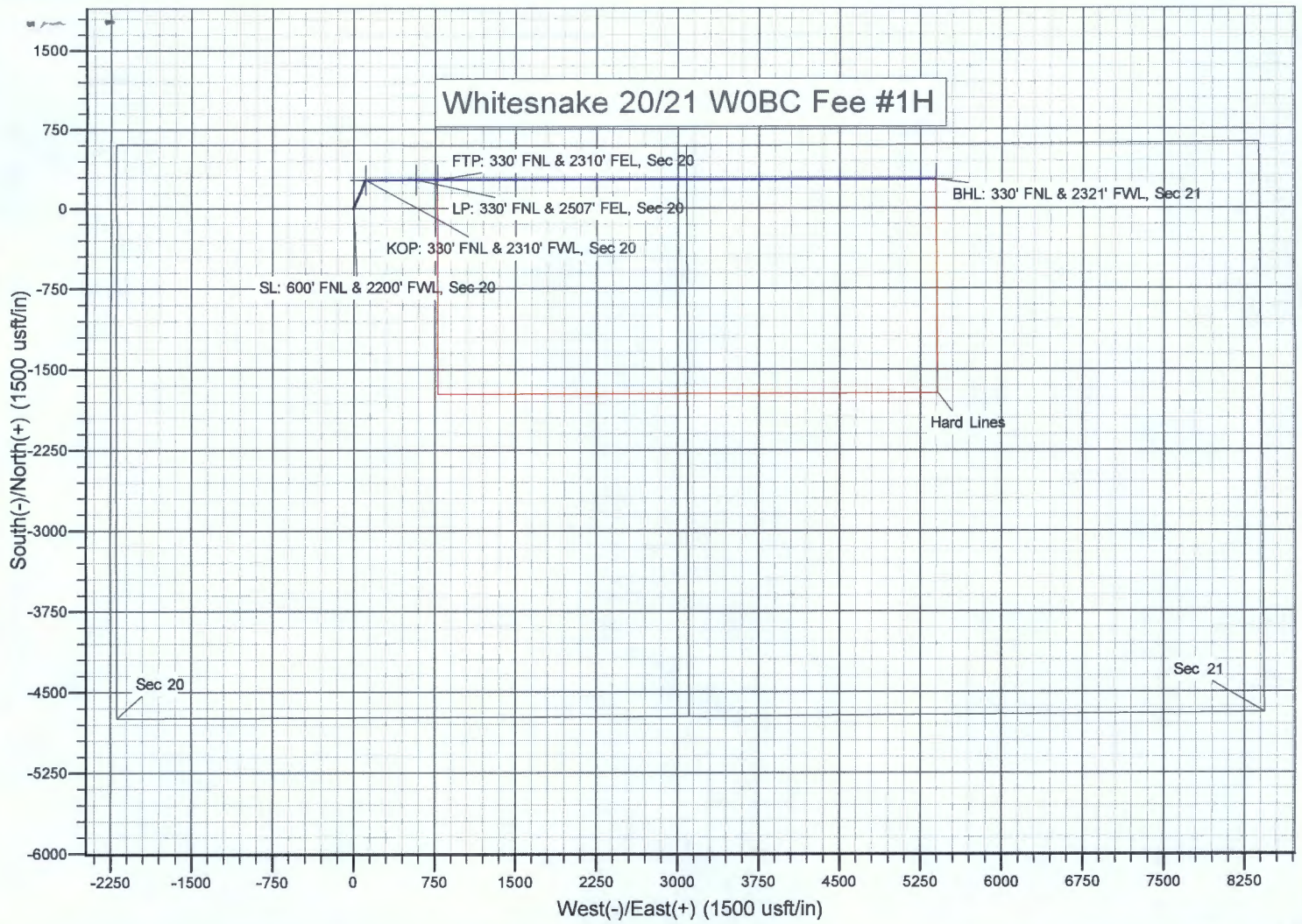
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.0	88.25	89.92	9,445.9	270.9	766.0	778.9	0.00	0.00	0.00
9,905.0	88.25	89.92	9,446.0	270.9	771.0	783.9	0.00	0.00	0.00
FTP: 330' FNL & 2310' FEL, Sec 20									
10,000.0	88.25	89.92	9,448.9	271.0	866.0	878.7	0.00	0.00	0.00
10,100.0	88.25	89.92	9,452.0	271.1	965.9	978.6	0.00	0.00	0.00
10,200.0	88.25	89.92	9,455.0	271.3	1,065.9	1,078.4	0.00	0.00	0.00
10,300.0	88.25	89.92	9,458.1	271.4	1,165.8	1,178.2	0.00	0.00	0.00
10,400.0	88.25	89.92	9,461.1	271.5	1,265.8	1,278.0	0.00	0.00	0.00
10,500.0	88.25	89.92	9,464.2	271.7	1,365.7	1,377.9	0.00	0.00	0.00
10,600.0	88.25	89.92	9,467.2	271.8	1,465.7	1,477.7	0.00	0.00	0.00
10,700.0	88.25	89.92	9,470.3	271.9	1,565.6	1,577.5	0.00	0.00	0.00
10,800.0	88.25	89.92	9,473.3	272.1	1,665.6	1,677.4	0.00	0.00	0.00
10,900.0	88.25	89.92	9,476.4	272.2	1,765.5	1,777.2	0.00	0.00	0.00
11,000.0	88.25	89.92	9,479.4	272.3	1,865.5	1,877.0	0.00	0.00	0.00
11,100.0	88.25	89.92	9,482.5	272.5	1,965.5	1,976.8	0.00	0.00	0.00
11,200.0	88.25	89.92	9,485.5	272.6	2,065.4	2,076.7	0.00	0.00	0.00
11,300.0	88.25	89.92	9,488.6	272.7	2,165.4	2,176.5	0.00	0.00	0.00
11,400.0	88.25	89.92	9,491.6	272.9	2,265.3	2,276.3	0.00	0.00	0.00
11,500.0	88.25	89.92	9,494.7	273.0	2,365.3	2,376.2	0.00	0.00	0.00
11,600.0	88.25	89.92	9,497.7	273.1	2,465.2	2,476.0	0.00	0.00	0.00
11,700.0	88.25	89.92	9,500.8	273.3	2,565.2	2,575.8	0.00	0.00	0.00
11,800.0	88.25	89.92	9,503.8	273.4	2,665.1	2,675.6	0.00	0.00	0.00
11,900.0	88.25	89.92	9,506.9	273.5	2,765.1	2,775.5	0.00	0.00	0.00
12,000.0	88.25	89.92	9,509.9	273.7	2,865.0	2,875.3	0.00	0.00	0.00
12,100.0	88.25	89.92	9,513.0	273.8	2,965.0	2,975.1	0.00	0.00	0.00
12,200.0	88.25	89.92	9,516.0	273.9	3,064.9	3,075.0	0.00	0.00	0.00
12,300.0	88.25	89.92	9,519.1	274.0	3,164.9	3,174.8	0.00	0.00	0.00
12,400.0	88.25	89.92	9,522.1	274.2	3,264.8	3,274.6	0.00	0.00	0.00
12,500.0	88.25	89.92	9,525.2	274.3	3,364.8	3,374.4	0.00	0.00	0.00
12,600.0	88.25	89.92	9,528.2	274.4	3,464.8	3,474.3	0.00	0.00	0.00
12,700.0	88.25	89.92	9,531.3	274.6	3,564.7	3,574.1	0.00	0.00	0.00
12,800.0	88.25	89.92	9,534.3	274.7	3,664.7	3,673.9	0.00	0.00	0.00
12,900.0	88.25	89.92	9,537.4	274.8	3,764.6	3,773.8	0.00	0.00	0.00
13,000.0	88.25	89.92	9,540.4	275.0	3,864.6	3,873.6	0.00	0.00	0.00
13,100.0	88.25	89.92	9,543.5	275.1	3,964.5	3,973.4	0.00	0.00	0.00
13,200.0	88.25	89.92	9,546.5	275.2	4,064.5	4,073.2	0.00	0.00	0.00
13,300.0	88.25	89.92	9,549.6	275.4	4,164.4	4,173.1	0.00	0.00	0.00
13,400.0	88.25	89.92	9,552.6	275.5	4,264.4	4,272.9	0.00	0.00	0.00
13,500.0	88.25	89.92	9,555.7	275.6	4,364.3	4,372.7	0.00	0.00	0.00
13,600.0	88.25	89.92	9,558.7	275.8	4,464.3	4,472.6	0.00	0.00	0.00
13,700.0	88.25	89.92	9,561.8	275.9	4,564.2	4,572.4	0.00	0.00	0.00
13,800.0	88.25	89.92	9,564.8	276.0	4,664.2	4,672.2	0.00	0.00	0.00
13,900.0	88.25	89.92	9,567.9	276.2	4,764.1	4,772.0	0.00	0.00	0.00
14,000.0	88.25	89.92	9,570.9	276.3	4,864.1	4,871.9	0.00	0.00	0.00
14,100.0	88.25	89.92	9,574.0	276.4	4,964.1	4,971.7	0.00	0.00	0.00
14,200.0	88.25	89.92	9,577.0	276.6	5,064.0	5,071.5	0.00	0.00	0.00
14,300.0	88.25	89.92	9,580.1	276.7	5,164.0	5,171.4	0.00	0.00	0.00
14,400.0	88.25	89.92	9,583.1	276.8	5,263.9	5,271.2	0.00	0.00	0.00
14,500.0	88.25	89.92	9,586.2	277.0	5,363.9	5,371.0	0.00	0.00	0.00
14,527.1	88.25	89.92	9,587.0	277.0	5,391.0	5,398.1	0.00	0.00	0.00
BHL: 330' FNL & 2321' FWL, Sec 21									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Whitesnake 20/21 W0BC Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3076.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3076.0usft (Original Well Elev)
Site:	Whitesnake 20/21 W0BC Fee #1H	North Reference:	Grid
Well:	Sec 20, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2321' FWL, Sec 21		
Design:	Design #1		

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
SL: 600' FNL & 2200' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	471,612.00	610,033.00	32° 17' 46.821 N	104° 6' 39.631 W
KOP: 330' FNL & 2310' I - plan hits target center - Point	0.00	0.00	6,965.0	270.0	111.0	471,882.00	610,144.00	32° 17' 49.491 N	104° 6' 38.331 W
LP: 330' FNL & 2507' FE - plan hits target center - Point	0.00	0.00	9,440.0	270.6	574.1	471,882.60	610,607.10	32° 17' 49.487 N	104° 6' 32.936 W
FTP: 330' FNL & 2310' F - plan hits target center - Point	0.00	0.00	9,446.0	270.9	771.0	471,882.88	610,804.00	32° 17' 49.486 N	104° 6' 30.642 W
BHL: 330' FNL & 2321' F - plan hits target center - Point	0.00	0.00	9,587.0	277.0	5,391.0	471,889.00	615,424.00	32° 17' 49.447 N	104° 5' 36.814 W

Whitesnake 20/21 W0BC Fee #1H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Whitesnake 20/21 W2BC Fee #1H

Sec 20, T23S, R28E

SL: 650' FNL & 2200' FWL, Sec 20

BHL: 330' FNL & 2321' FWL, Sec 21

Plan: Design #1

Standard Planning Report

01 December, 2017

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Whitesnake 20/21 W2BC Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3076.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3076.0usft (Original Well Elev)
Site:	Whitesnake 20/21 W2BC Fee #1H	North Reference:	Grid
Well:	Sec 20, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2321' FWL, Sec 21		
Design:	Design #1		

Project	Eddy 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: Whitesnake 20/21 W2BC Fee #1H					
Site Position:		Northing:	471,562.00 usft	Latitude:	32° 17' 46.326 N
From:	Map	Easting:	610,034.00 usft	Longitude:	104° 6' 39.621 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12

Well	Sec 20, T23S, R28E					
Well Position	+N/-S	0.0 usft	Northing:	471,562.00 usft	Latitude:	32° 17' 46.326 N
	+E/-W	0.0 usft	Easting:	610,034.00 usft	Longitude:	104° 6' 39.621 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,076.0 usft	Ground Level:	3,049.0 usft

Wellbore	BHL: 330' FNL & 2321' FWL, Sec 21				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (uT)
	IGRF2010	12/1/2017	7.04	60.00	47,960

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	86.53

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,450.0	0.00	0.00	2,450.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,675.5	4.51	18.97	2,675.3	8.4	2.9	2.00	2.00	0.00	18.97	
6,752.6	4.51	18.97	6,739.7	311.6	107.1	0.00	0.00	0.00	0.00	
6,978.1	0.00	0.00	6,965.0	320.0	110.0	2.00	-2.00	0.00	180.00	KOP: 330' FNL & 231'
9,716.1	0.00	0.00	9,703.0	320.0	110.0	0.00	0.00	0.00	0.00	
10,600.1	88.36	89.92	10,276.0	320.7	666.8	10.00	10.00	0.00	89.92	
15,325.2	88.36	89.92	10,411.0	327.0	5,390.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 232'

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Whitesnake 20/21 W2BC Fee #1H
 Well: Sec 20, T23S, R28E
 Wellbore: BHL: 330' FNL & 2321' FWL, Sec 21
 Design: Design #1

Local Co-ordinate Reference: Site Whitesnake 20/21 W2BC Fee #1H
 TVD Reference: WELL @ 3076.0usft (Original Well Elev)
 MD Reference: WELL @ 3076.0usft (Original Well Elev)
 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 650' FNL & 2200' FWL, Sec 20									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,450.0	0.00	0.00	2,450.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	1.00	18.97	2,500.0	0.4	0.1	0.2	2.00	2.00	0.00
2,600.0	3.00	18.97	2,599.9	3.7	1.3	1.5	2.00	2.00	0.00
2,675.5	4.51	18.97	2,675.3	8.4	2.9	3.4	2.00	2.00	0.00
2,700.0	4.51	18.97	2,699.7	10.2	3.5	4.1	0.00	0.00	0.00
2,800.0	4.51	18.97	2,799.4	17.6	6.1	7.1	0.00	0.00	0.00
2,900.0	4.51	18.97	2,899.1	25.1	8.6	10.1	0.00	0.00	0.00
3,000.0	4.51	18.97	2,998.8	32.5	11.2	13.1	0.00	0.00	0.00
3,100.0	4.51	18.97	3,098.5	40.0	13.7	16.1	0.00	0.00	0.00
3,200.0	4.51	18.97	3,198.1	47.4	16.3	19.1	0.00	0.00	0.00
3,300.0	4.51	18.97	3,297.8	54.8	18.8	22.1	0.00	0.00	0.00
3,400.0	4.51	18.97	3,397.5	62.3	21.4	25.1	0.00	0.00	0.00
3,500.0	4.51	18.97	3,497.2	69.7	24.0	28.1	0.00	0.00	0.00
3,600.0	4.51	18.97	3,596.9	77.1	26.5	31.1	0.00	0.00	0.00
3,700.0	4.51	18.97	3,696.6	84.6	29.1	34.1	0.00	0.00	0.00
3,800.0	4.51	18.97	3,796.3	92.0	31.6	37.1	0.00	0.00	0.00
3,900.0	4.51	18.97	3,896.0	99.5	34.2	40.1	0.00	0.00	0.00
4,000.0	4.51	18.97	3,995.7	106.9	36.7	43.2	0.00	0.00	0.00
4,100.0	4.51	18.97	4,095.4	114.3	39.3	46.2	0.00	0.00	0.00
4,200.0	4.51	18.97	4,195.0	121.8	41.9	49.2	0.00	0.00	0.00
4,300.0	4.51	18.97	4,294.7	129.2	44.4	52.2	0.00	0.00	0.00
4,400.0	4.51	18.97	4,394.4	136.6	47.0	55.2	0.00	0.00	0.00
4,500.0	4.51	18.97	4,494.1	144.1	49.5	58.2	0.00	0.00	0.00
4,600.0	4.51	18.97	4,593.8	151.5	52.1	61.2	0.00	0.00	0.00
4,700.0	4.51	18.97	4,693.5	159.0	54.6	64.2	0.00	0.00	0.00
4,800.0	4.51	18.97	4,793.2	166.4	57.2	67.2	0.00	0.00	0.00
4,900.0	4.51	18.97	4,892.9	173.8	59.8	70.2	0.00	0.00	0.00
5,000.0	4.51	18.97	4,992.6	181.3	62.3	73.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Whitesnake 20/21 W2BC Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3076.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3076.0usft (Original Well Elev)
Site:	Whitesnake 20/21 W2BC Fee #1H	North Reference:	Grid
Well:	Sec 20, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2321' FWL, Sec 21		
Design:	Design #1		

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)	
5,100.0	4.51	18.97	5,092.3	188.7	64.9	76.2	0.00	0.00	0.00	
5,200.0	4.51	18.97	5,191.9	196.1	67.4	79.2	0.00	0.00	0.00	
5,300.0	4.51	18.97	5,291.6	203.6	70.0	82.2	0.00	0.00	0.00	
5,400.0	4.51	18.97	5,391.3	211.0	72.5	85.2	0.00	0.00	0.00	
5,500.0	4.51	18.97	5,491.0	218.5	75.1	88.2	0.00	0.00	0.00	
5,600.0	4.51	18.97	5,590.7	225.9	77.6	91.2	0.00	0.00	0.00	
5,700.0	4.51	18.97	5,690.4	233.3	80.2	94.2	0.00	0.00	0.00	
5,800.0	4.51	18.97	5,790.1	240.8	82.8	97.2	0.00	0.00	0.00	
5,900.0	4.51	18.97	5,889.8	248.2	85.3	100.2	0.00	0.00	0.00	
6,000.0	4.51	18.97	5,989.5	255.6	87.9	103.2	0.00	0.00	0.00	
6,100.0	4.51	18.97	6,089.2	263.1	90.4	106.2	0.00	0.00	0.00	
6,200.0	4.51	18.97	6,188.9	270.5	93.0	109.2	0.00	0.00	0.00	
6,300.0	4.51	18.97	6,288.5	278.0	95.5	112.2	0.00	0.00	0.00	
6,400.0	4.51	18.97	6,388.2	285.4	98.1	115.2	0.00	0.00	0.00	
6,500.0	4.51	18.97	6,487.9	292.8	100.7	118.2	0.00	0.00	0.00	
6,600.0	4.51	18.97	6,587.6	300.3	103.2	121.2	0.00	0.00	0.00	
6,700.0	4.51	18.97	6,687.3	307.7	105.8	124.2	0.00	0.00	0.00	
6,752.6	4.51	18.97	6,739.7	311.6	107.1	125.8	0.00	0.00	0.00	
6,800.0	3.56	18.97	6,787.0	314.8	108.2	127.1	2.00	-2.00	0.00	
6,900.0	1.56	18.97	6,886.9	319.0	109.7	128.8	2.00	-2.00	0.00	
6,978.1	0.00	0.00	6,965.0	320.0	110.0	129.2	2.00	-2.00	0.00	
KOP: 330' FNL & 2310' FWL, Sec20										
7,000.0	0.00	0.00	6,986.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,086.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,186.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,286.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,386.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,486.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,586.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,686.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,786.9	320.0	110.0	129.2	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,886.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,986.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,086.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,186.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,286.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,386.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,486.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,586.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,686.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,786.9	320.0	110.0	129.2	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,886.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,986.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,086.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,186.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,286.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,386.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,486.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,586.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,686.9	320.0	110.0	129.2	0.00	0.00	0.00	
9,716.1	0.00	0.00	9,703.0	320.0	110.0	129.2	0.00	0.00	0.00	
9,800.0	8.38	89.92	9,786.6	320.0	116.1	135.3	10.00	10.00	0.00	
9,900.0	18.38	89.92	9,883.8	320.0	139.2	158.4	10.00	10.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Whitesnake 20/21 W2BC Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3076.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3076.0usft (Original Well Elev)
Site:	Whitesnake 20/21 W2BC Fee #1H	North Reference:	Grid
Well:	Sec 20, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2321' FWL, Sec 21		
Design:	Design #1		

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)
10,000.0	28.37	89.92	9,975.4	320.1	178.9	197.9	10.00	10.00	0.00
10,100.0	38.37	89.92	10,058.8	320.2	233.8	252.8	10.00	10.00	0.00
10,200.0	48.37	89.92	10,131.5	320.3	302.4	321.2	10.00	10.00	0.00
10,300.0	58.36	89.92	10,191.0	320.4	382.5	401.2	10.00	10.00	0.00
10,400.0	68.36	89.92	10,235.8	320.5	471.8	490.3	10.00	10.00	0.00
10,500.0	78.35	89.92	10,264.4	320.6	567.5	585.9	10.00	10.00	0.00
10,600.0	88.35	89.92	10,276.0	320.7	666.7	684.9	10.00	10.00	0.00
10,600.1	88.35	89.92	10,276.0	320.7	666.8	685.0	0.00	0.00	0.00
LP: 330' FNL & 2414' FEL, Sec 20									
10,700.0	88.36	89.92	10,278.9	320.9	766.7	784.7	0.01	0.01	0.00
10,704.4	88.36	89.92	10,279.0	320.9	771.0	789.0	0.00	0.00	0.00
FTP: 330' FNL & 2310' FEL, Sec20									
10,800.0	88.36	89.92	10,281.7	321.0	866.6	884.5	0.00	0.00	0.00
10,900.0	88.36	89.92	10,284.6	321.1	966.6	984.2	0.00	0.00	0.00
11,000.0	88.36	89.92	10,287.4	321.3	1,066.5	1,084.0	0.00	0.00	0.00
11,100.0	88.36	89.92	10,290.3	321.4	1,166.5	1,183.8	0.00	0.00	0.00
11,200.0	88.36	89.92	10,293.1	321.5	1,266.4	1,283.6	0.00	0.00	0.00
11,300.0	88.36	89.92	10,296.0	321.7	1,366.4	1,383.4	0.00	0.00	0.00
11,400.0	88.36	89.92	10,298.9	321.8	1,466.4	1,483.2	0.00	0.00	0.00
11,500.0	88.36	89.92	10,301.7	321.9	1,566.3	1,582.9	0.00	0.00	0.00
11,600.0	88.36	89.92	10,304.6	322.1	1,666.3	1,682.7	0.00	0.00	0.00
11,700.0	88.36	89.92	10,307.4	322.2	1,766.2	1,782.5	0.00	0.00	0.00
11,800.0	88.36	89.92	10,310.3	322.3	1,866.2	1,882.3	0.00	0.00	0.00
11,900.0	88.36	89.92	10,313.1	322.5	1,966.2	1,982.1	0.00	0.00	0.00
12,000.0	88.36	89.92	10,316.0	322.6	2,066.1	2,081.9	0.00	0.00	0.00
12,100.0	88.36	89.92	10,318.9	322.7	2,166.1	2,181.6	0.00	0.00	0.00
12,200.0	88.36	89.92	10,321.7	322.9	2,266.0	2,281.4	0.00	0.00	0.00
12,300.0	88.36	89.92	10,324.6	323.0	2,366.0	2,381.2	0.00	0.00	0.00
12,400.0	88.36	89.92	10,327.4	323.1	2,466.0	2,481.0	0.00	0.00	0.00
12,500.0	88.36	89.92	10,330.3	323.3	2,565.9	2,580.8	0.00	0.00	0.00
12,600.0	88.36	89.92	10,333.1	323.4	2,665.9	2,680.6	0.00	0.00	0.00
12,700.0	88.36	89.92	10,336.0	323.5	2,765.8	2,780.3	0.00	0.00	0.00
12,800.0	88.36	89.92	10,338.9	323.7	2,865.8	2,880.1	0.00	0.00	0.00
12,900.0	88.36	89.92	10,341.7	323.8	2,965.8	2,979.9	0.00	0.00	0.00
13,000.0	88.36	89.92	10,344.6	323.9	3,065.7	3,079.7	0.00	0.00	0.00
13,100.0	88.36	89.92	10,347.4	324.1	3,165.7	3,179.5	0.00	0.00	0.00
13,200.0	88.36	89.92	10,350.3	324.2	3,265.6	3,279.3	0.00	0.00	0.00
13,300.0	88.36	89.92	10,353.1	324.3	3,365.6	3,379.0	0.00	0.00	0.00
13,400.0	88.36	89.92	10,356.0	324.4	3,465.5	3,478.8	0.00	0.00	0.00
13,500.0	88.36	89.92	10,358.9	324.6	3,565.5	3,578.6	0.00	0.00	0.00
13,600.0	88.36	89.92	10,361.7	324.7	3,665.5	3,678.4	0.00	0.00	0.00
13,700.0	88.36	89.92	10,364.6	324.8	3,765.4	3,778.2	0.00	0.00	0.00
13,800.0	88.36	89.92	10,367.4	325.0	3,865.4	3,878.0	0.00	0.00	0.00
13,900.0	88.36	89.92	10,370.3	325.1	3,965.3	3,977.8	0.00	0.00	0.00
14,000.0	88.36	89.92	10,373.1	325.2	4,065.3	4,077.5	0.00	0.00	0.00
14,100.0	88.36	89.92	10,376.0	325.4	4,165.3	4,177.3	0.00	0.00	0.00
14,200.0	88.36	89.92	10,378.9	325.5	4,265.2	4,277.1	0.00	0.00	0.00
14,300.0	88.36	89.92	10,381.7	325.6	4,365.2	4,376.9	0.00	0.00	0.00
14,400.0	88.36	89.92	10,384.6	325.8	4,465.1	4,476.7	0.00	0.00	0.00
14,500.0	88.36	89.92	10,387.4	325.9	4,565.1	4,576.5	0.00	0.00	0.00
14,600.0	88.36	89.92	10,390.3	326.0	4,665.1	4,676.2	0.00	0.00	0.00
14,700.0	88.36	89.92	10,393.1	326.2	4,765.0	4,776.0	0.00	0.00	0.00
14,800.0	88.36	89.92	10,396.0	326.3	4,865.0	4,875.8	0.00	0.00	0.00
14,900.0	88.36	89.92	10,398.9	326.4	4,964.9	4,975.6	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Whitesnake 20/21 W2BC Fee #1H
Well: Sec 20, T23S, R28E
Wellbore: BHL: 330' FNL & 2321' FWL, Sec 21
Design: Design #1

Local Co-ordinate Reference: Site Whitesnake 20/21 W2BC Fee #1H
TVD Reference: WELL @ 3076.0usft (Original Well Elev)
MD Reference: WELL @ 3076.0usft (Original Well Elev)
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)
15,000.0	88.36	89.92	10,401.7	326.6	5,064.9	5,075.4	0.00	0.00	0.00
15,100.0	88.36	89.92	10,404.6	326.7	5,164.9	5,175.2	0.00	0.00	0.00
15,200.0	88.36	89.92	10,407.4	326.8	5,264.8	5,274.9	0.00	0.00	0.00
15,300.0	88.36	89.92	10,410.3	327.0	5,364.8	5,374.7	0.00	0.00	0.00
15,325.2	88.36	89.92	10,411.0	327.0	5,390.0	5,399.9	0.00	0.00	0.00
BHL: 330' FNL & 2321' FWL, Sec21									

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
SL: 650' FNL & 2200' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	471,562.00	610,034.00	32° 17' 46.326 N	104° 6' 39.621 W
KOP: 330' FNL & 2310' F - plan hits target center - Point	0.00	0.00	6,965.0	320.0	110.0	471,882.00	610,144.00	32° 17' 49.491 N	104° 6' 38.331 W
LP: 330' FNL & 2414' FE - plan hits target center - Point	0.00	0.00	10,276.0	320.7	666.8	471,882.70	610,700.80	32° 17' 49.486 N	104° 6' 31.844 W
FTP: 330' FNL & 2310' F - plan hits target center - Point	0.00	0.00	10,279.0	320.9	771.0	471,882.88	610,805.00	32° 17' 49.486 N	104° 6' 30.630 W
BHL: 330' FNL & 2321' F - plan hits target center - Point	0.00	0.00	10,411.0	327.0	5,390.0	471,889.00	615,424.00	32° 17' 49.447 N	104° 5' 36.814 W

Whitesnake 20/21 W2BC Fee #1H

