

O AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mewbourne Oil Company PO Box 5270 Hobbs, NM 88240		² OGRID Number 14744
		³ Reason for Filing Code/ Effective Date NW / 02/25/2022
⁴ API Number 30-025-49154	⁵ Pool Name Scharb; Bone Spring	⁶ Pool Code 55610
⁷ Property Code 331177	⁸ Property Name SANTA VACA 19/18 B2NC STATE COM	⁹ Well Number 1H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	19	19S	3E		205	South	1440	West	Lea

¹¹ Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	18	19S	3E		86	North	1980	West	Lea
¹² Lse Code S	¹³ Producing Method Code Flow in 2	¹⁴ Gas Connection Date 02/25/2022	¹⁵ C-129 Permit Number I	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

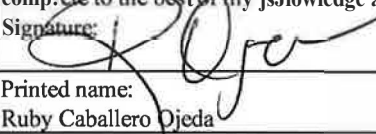
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
329971	Oryx 4000 N Big Spring Suite 400 Midland TX 79701	O
024650	Targa (Versado) 6 Desta Drive, Ste 700 Midland, TX 79710	G

IV. Well Completion Data

²¹ Spud Date 10/22/2021	²² Ready Date 02/25/2022	²³ TD 20836'	²⁴ PBSD 20831'	²⁵ Perforations 10626' - 20818'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing: Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/4"	1906	1325		
12 1/4"	9 5/8"	3501 MD	875		
8 3/4"	7"	9950 MD	1000		
6 1/4"	4 1/2" Liner	9709' - 20836'	925		
	2 1/4"	9656'			

V. Well Test Data

³¹ Date New Oil 02/25/2022	³² Gas Delivery Date 02/25/2022	³³ Test Date 03/14/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 510	³⁶ Csg. Pressure 315
³⁷ Choke Size	³⁸ Oil 838	³⁹ Water 2925	⁴⁰ Gas 403		⁴¹ Test Method Production

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Ruby Caballero Ojeda		Approved by: <i>PATRICIA MARTINEZ</i>	
Title: Regulatory		Title: <i>PETROLEUM SPECIALIST</i>	
E-mail Address: rcaballero@mewboume.com		Approval Date: <i>11/12/2024</i>	
Date: 03/18/2022	Phone:		

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
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49154	² Pool Code 55610	³ Pool Name SCHARB; BONE SPRING
⁴ Property Code 331177	⁵ Property Name SANTA VACA 19/18 B2NC STATE COM	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 1H
		⁹ Elevation 3788'

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	19	19S	35E		205	SOUTH	1440	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
C	18	19S	35E		86	NORTH	1980	WEST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

(C) N 89°37'19" E 2638.39' (D) S 89°21'45" E 2634.50' (E)
 (B) N 00°26'29" W 5310.36'
 (A) N 00°29'32" W 5307.43'
 (I) N 89°36'24" E 2640.61' (J) N 89°36'43" E 2639.80'

16

1980'

LOT 1 (39.40 Ac.)

LOT 2 (39.43 Ac.)

LOT 3 (39.47 Ac.)

LOT 4 (39.50 Ac.)

S 89°59'47" E 2630.87'

N 89°26'41" E 2644.73'

18

86'

GEODETIC DATA
NAD 83 GRID - NM EAST

BOTTOM HOLE (BH)
N: 607643.0 - E: 798154.7
LAT: 32.6676810° N
LONG: 103.4987668° W

LAST TAKE POINT (LTP)
104' FSL - 1980' FWL
N: 607625.2 - E: 798155.1
LAT: 32.6676320° N
LONG: 103.4987660° W

17

LOT 1 (39.50 Ac.)

LOT 2 (39.47 Ac.)

LOT 3 (39.43 Ac.)

LOT 4 (39.40 Ac.)

N 00°29'32" W 5307.43'

N 00°35'26" W 2640.54'

N 00°30'00" W 2656.41'

N 00°00'48" W 2616.92'

N 00°55'47" W 2656.23'

19

GEODETIC DATA
NAD 83 GRID - NM EAST

FIRST TAKE POINT (FTP)
326' FSL - 1988' FWL
N: 597440.8 - E: 798246.4
LAT: 32.6396390° N
LONG: 103.4987293° W

KICK OFF POINT (KOP)
7' FSL - 2039' FWL
N: 597122.1 - E: 798300.3
LAT: 32.6387620° N
LONG: 103.4985624° W

SURFACE LOCATION (SL)
N: 597315.7 - E: 797698.5
LAT: 32.6393070° N
LONG: 103.5005124° W

1440'

205'

FTP

KOP

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: *Ruby Caballero Ojeda* Date: 03/18/2022

Printed Name: Ruby Caballero Ojeda

E-mail Address: rcaballero@mewbourne.com

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.

12-10-2021

Date of Survey

Signature and Seal of Professional Surveyor: *Robert M. Howett*

19680

Certificate Number

Job No: LS21020106AD



Project: Lea County, NM (NAD83)
 Site: Sec 19-T19S-R35E
 Well: Santa Vaca 19-18 B2NC State Com #1H
 205 FSL, 1440 FWL Sec 19
 Wellbore: Wellbore #1
 Design: Plan #1.2

Map System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone Name: New Mexico Eastern Zone



Azimuths to Grid North
 True North: -0.45°
 Magnetic North: 6.15°
 Magnetic Field
 Strength: 47814.4nT
 Dip Angle: 60.54°
 Date: 8/1/2021
 Model: BGGM2021

WELL DETAILS

3788 GL + 28 KB @ 3816.00usft (260)

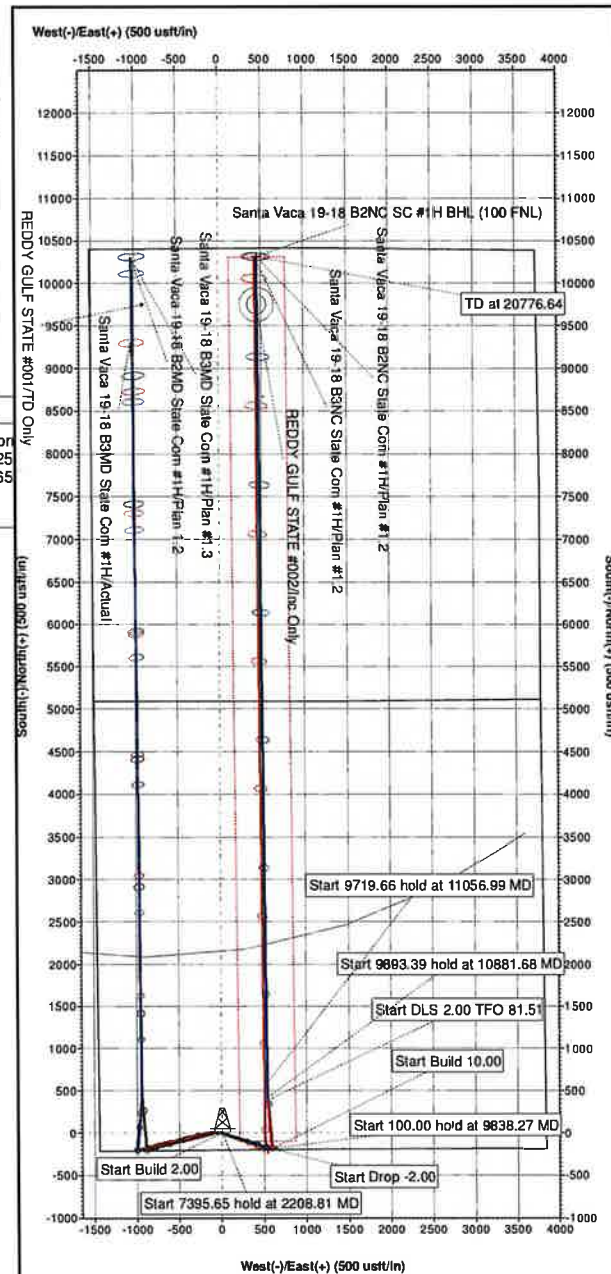
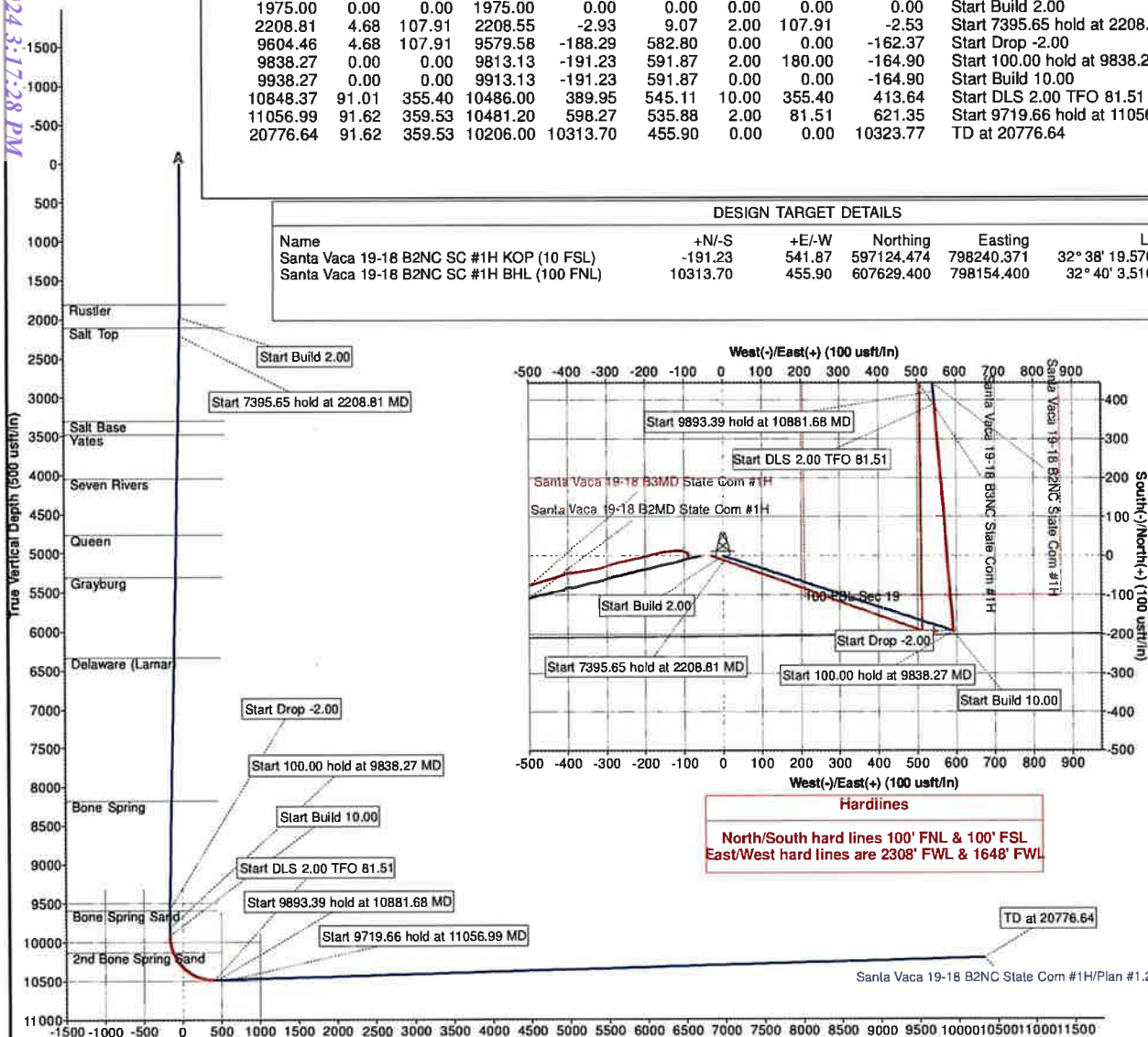
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	597315.700	797698.500	32° 38' 21.505041 N	103° 30' 1.844528 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1975.00	0.00	0.00	1975.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
2208.81	4.68	107.91	2208.55	-2.93	9.07	2.00	107.91	-2.53	Start 7395.65 hold at 2208.81 MD
9604.46	4.68	107.91	9579.58	-188.29	582.80	0.00	0.00	-162.37	Start Drop -2.00
9838.27	0.00	0.00	9813.13	-191.23	591.87	2.00	180.00	-164.90	Start 100.00 hold at 9838.27 MD
9938.27	0.00	0.00	9913.13	-191.23	591.87	0.00	0.00	-164.90	Start Build 10.00
10848.37	91.01	355.40	10486.00	389.95	545.11	10.00	355.40	413.64	Start DLS 2.00 TFO 81.51
11056.99	91.62	359.53	10481.20	598.27	535.88	2.00	81.51	621.35	Start 9719.66 hold at 11056.99 MD
20776.64	91.62	359.53	10206.00	10313.70	455.90	0.00	0.00	10323.77	TD at 20776.64

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Santa Vaca 19-18 B2NC SC #1H KOP (10 FSL)	-191.23	541.87	597124.474	798240.371	32° 38' 19.570901 N	03° 29' 55.525
Santa Vaca 19-18 B2NC SC #1H BHL (100 FNL)	10313.70	455.90	607629.400	798154.400	32° 40' 3.516862 N	03° 29' 55.565



HALLIBURTON | Sperry Drilling

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
0.00	0.00	0.00	0.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,805.00	0.00	0.00	1,805.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	Rustler
1,900.00	0.00	0.00	1,900.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	
1,975.00	0.00	0.00	1,975.00	0.00 N	0.00 E	597,315.700	797,698.500	0.00	0.00	0.00	Start Build 2.00
2,000.00	0.50	107.91	2,000.00	0.03 S	0.10 E	597,315.666	797,698.604	2.00	-0.03	107.91	
2,100.00	2.50	107.91	2,099.96	0.84 S	2.59 E	597,314.862	797,701.095	2.00	-0.72	0.00	
2,105.04	2.60	107.91	2,105.00	0.91 S	2.81 E	597,314.793	797,701.308	2.00	-0.78	0.00	Salt Top
2,200.00	4.50	107.91	2,199.77	2.72 S	8.40 E	597,312.985	797,706.903	2.00	-2.34	0.00	
2,208.81	4.68	107.91	2,208.55	2.93 S	9.07 E	597,312.768	797,707.574	2.00	-2.53	0.00	Start 7395.65 hold at 2208.81 MD
2,300.00	4.68	107.91	2,299.44	5.22 S	16.15 E	597,310.483	797,714.648	0.00	-4.50	0.00	
2,400.00	4.68	107.91	2,399.10	7.72 S	23.91 E	597,307.976	797,722.406	0.00	-6.66	0.00	
2,500.00	4.68	107.91	2,498.77	10.23 S	31.66 E	597,305.470	797,730.163	0.00	-8.82	0.00	
2,600.00	4.68	107.91	2,598.44	12.74 S	39.42 E	597,302.964	797,737.921	0.00	-10.98	0.00	
2,700.00	4.68	107.91	2,698.11	15.24 S	47.18 E	597,300.457	797,745.678	0.00	-13.14	0.00	
2,800.00	4.68	107.91	2,797.77	17.75 S	54.94 E	597,297.951	797,753.436	0.00	-15.31	0.00	
2,900.00	4.68	107.91	2,897.44	20.26 S	62.69 E	597,295.444	797,761.194	0.00	-17.47	0.00	
3,000.00	4.68	107.91	2,997.11	22.76 S	70.45 E	597,292.938	797,768.951	0.00	-19.63	0.00	
3,100.00	4.68	107.91	3,096.77	25.27 S	78.21 E	597,290.432	797,776.709	0.00	-21.79	0.00	

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
3,200.00	4.68	107.91	3,196.44	27.77 S	85.97 E	597,287.925	797,784.466	0.00	-23.95	0.00	
3,300.00	4.68	107.91	3,296.11	30.28 S	93.72 E	597,285.419	797,792.224	0.00	-26.11	0.00	
3,304.91	4.68	107.91	3,301.00	30.40 S	94.10 E	597,285.296	797,792.605	0.00	-26.22	0.00	Salt Base
3,400.00	4.68	107.91	3,395.78	32.79 S	101.48 E	597,282.913	797,799.981	0.00	-28.27	0.00	
3,484.51	4.68	107.91	3,480.00	34.91 S	108.04 E	597,280.795	797,806.537	0.00	-30.10	0.00	Yates
3,500.00	4.68	107.91	3,495.44	35.29 S	109.24 E	597,280.406	797,807.739	0.00	-30.44	0.00	
3,600.00	4.68	107.91	3,595.11	37.80 S	117.00 E	597,277.900	797,815.496	0.00	-32.60	0.00	
3,700.00	4.68	107.91	3,694.78	40.31 S	124.75 E	597,275.393	797,823.254	0.00	-34.76	0.00	
3,800.00	4.68	107.91	3,794.44	42.81 S	132.51 E	597,272.887	797,831.012	0.00	-36.92	0.00	
3,900.00	4.68	107.91	3,894.11	45.32 S	140.27 E	597,270.381	797,838.769	0.00	-39.08	0.00	
4,000.00	4.68	107.91	3,993.78	47.83 S	148.03 E	597,267.874	797,846.527	0.00	-41.24	0.00	
4,051.39	4.68	107.91	4,045.00	49.11 S	152.01 E	597,266.586	797,850.514	0.00	-42.35	0.00	Seven Rivers
4,100.00	4.68	107.91	4,093.45	50.33 S	155.78 E	597,265.368	797,854.284	0.00	-43.40	0.00	
4,200.00	4.68	107.91	4,193.11	52.84 S	163.54 E	597,262.862	797,862.042	0.00	-45.56	0.00	
4,300.00	4.68	107.91	4,292.78	55.34 S	171.30 E	597,260.355	797,869.799	0.00	-47.73	0.00	
4,400.00	4.68	107.91	4,392.45	57.85 S	179.06 E	597,257.849	797,877.557	0.00	-49.89	0.00	
4,500.00	4.68	107.91	4,492.11	60.36 S	186.81 E	597,255.342	797,885.315	0.00	-52.05	0.00	
4,600.00	4.68	107.91	4,591.78	62.86 S	194.57 E	597,252.836	797,893.072	0.00	-54.21	0.00	
4,700.00	4.68	107.91	4,691.45	65.37 S	202.33 E	597,250.330	797,900.830	0.00	-56.37	0.00	
4,773.80	4.68	107.91	4,765.00	67.22 S	208.05 E	597,248.480	797,906.555	0.00	-57.97	0.00	Queen
4,800.00	4.68	107.91	4,791.12	67.88 S	210.09 E	597,247.823	797,908.587	0.00	-58.53	0.00	
4,900.00	4.68	107.91	4,890.78	70.38 S	217.84 E	597,245.317	797,916.345	0.00	-60.69	0.00	
5,000.00	4.68	107.91	4,990.45	72.89 S	225.60 E	597,242.811	797,924.102	0.00	-62.86	0.00	
5,100.00	4.68	107.91	5,090.12	75.40 S	233.36 E	597,240.304	797,931.860	0.00	-65.02	0.00	
5,200.00	4.68	107.91	5,189.78	77.90 S	241.12 E	597,237.798	797,939.617	0.00	-67.18	0.00	
5,300.00	4.68	107.91	5,289.45	80.41 S	248.88 E	597,235.291	797,947.375	0.00	-69.34	0.00	
5,320.62	4.68	107.91	5,310.00	80.93 S	250.47 E	597,234.775	797,948.974	0.00	-69.79	0.00	Grayburg
5,400.00	4.68	107.91	5,389.12	82.91 S	256.63 E	597,232.785	797,955.133	0.00	-71.50	0.00	
5,500.00	4.68	107.91	5,488.79	85.42 S	264.39 E	597,230.279	797,962.890	0.00	-73.66	0.00	
5,600.00	4.68	107.91	5,588.45	87.93 S	272.15 E	597,227.772	797,970.648	0.00	-75.82	0.00	
5,700.00	4.68	107.91	5,688.12	90.43 S	279.91 E	597,225.266	797,978.405	0.00	-77.99	0.00	
5,800.00	4.68	107.91	5,787.79	92.94 S	287.66 E	597,222.760	797,986.163	0.00	-80.15	0.00	
5,900.00	4.68	107.91	5,887.45	95.45 S	295.42 E	597,220.253	797,993.920	0.00	-82.31	0.00	
6,000.00	4.68	107.91	5,987.12	97.95 S	303.18 E	597,217.747	798,001.678	0.00	-84.47	0.00	
6,100.00	4.68	107.91	6,086.79	100.46 S	310.94 E	597,215.240	798,009.436	0.00	-86.63	0.00	
6,200.00	4.68	107.91	6,186.46	102.97 S	318.69 E	597,212.734	798,017.193	0.00	-88.79	0.00	
6,300.00	4.68	107.91	6,286.12	105.47 S	326.45 E	597,210.228	798,024.951	0.00	-90.95	0.00	

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
6,349.04	4.68	107.91	6,335.00	106.70 S	330.26 E	597,208.998	798,028.755	0.00	-92.01	0.00	Delaware (Lamar)
6,400.00	4.68	107.91	6,385.79	107.98 S	334.21 E	597,207.721	798,032.708	0.00	-93.11	0.00	
6,500.00	4.68	107.91	6,485.46	110.49 S	341.97 E	597,205.215	798,040.466	0.00	-95.28	0.00	
6,600.00	4.68	107.91	6,585.12	112.99 S	349.72 E	597,202.709	798,048.223	0.00	-97.44	0.00	
6,700.00	4.68	107.91	6,684.79	115.50 S	357.48 E	597,200.202	798,055.981	0.00	-99.60	0.00	
6,800.00	4.68	107.91	6,784.46	118.00 S	365.24 E	597,197.696	798,063.738	0.00	-101.76	0.00	
6,900.00	4.68	107.91	6,884.13	120.51 S	373.00 E	597,195.189	798,071.496	0.00	-103.92	0.00	
7,000.00	4.68	107.91	6,983.79	123.02 S	380.75 E	597,192.683	798,079.254	0.00	-106.08	0.00	
7,100.00	4.68	107.91	7,083.46	125.52 S	388.51 E	597,190.177	798,087.011	0.00	-108.24	0.00	
7,200.00	4.68	107.91	7,183.13	128.03 S	396.27 E	597,187.670	798,094.769	0.00	-110.41	0.00	
7,300.00	4.68	107.91	7,282.79	130.54 S	404.03 E	597,185.164	798,102.526	0.00	-112.57	0.00	
7,400.00	4.68	107.91	7,382.46	133.04 S	411.78 E	597,182.658	798,110.284	0.00	-114.73	0.00	
7,500.00	4.68	107.91	7,482.13	135.55 S	419.54 E	597,180.151	798,118.041	0.00	-116.89	0.00	
7,600.00	4.68	107.91	7,581.80	138.06 S	427.30 E	597,177.645	798,125.799	0.00	-119.05	0.00	
7,700.00	4.68	107.91	7,681.46	140.56 S	435.06 E	597,175.138	798,133.557	0.00	-121.21	0.00	
7,800.00	4.68	107.91	7,781.13	143.07 S	442.81 E	597,172.632	798,141.314	0.00	-123.37	0.00	
7,900.00	4.68	107.91	7,880.80	145.57 S	450.57 E	597,170.126	798,149.072	0.00	-125.54	0.00	
8,000.00	4.68	107.91	7,980.46	148.08 S	458.33 E	597,167.619	798,156.829	0.00	-127.70	0.00	
8,100.00	4.68	107.91	8,080.13	150.59 S	466.09 E	597,165.113	798,164.587	0.00	-129.86	0.00	
8,200.00	4.68	107.91	8,179.80	153.09 S	473.84 E	597,162.606	798,172.344	0.00	-132.02	0.00	
8,200.20	4.68	107.91	8,180.00	153.10 S	473.86 E	597,162.601	798,172.360	0.00	-132.02	0.00	Bone Spring
8,300.00	4.68	107.91	8,279.47	155.60 S	481.60 E	597,160.100	798,180.102	0.00	-134.18	0.00	
8,400.00	4.68	107.91	8,379.13	158.11 S	489.36 E	597,157.594	798,187.859	0.00	-136.34	0.00	
8,500.00	4.68	107.91	8,478.80	160.61 S	497.12 E	597,155.087	798,195.617	0.00	-138.50	0.00	
8,600.00	4.68	107.91	8,578.47	163.12 S	504.87 E	597,152.581	798,203.375	0.00	-140.66	0.00	
8,700.00	4.68	107.91	8,678.13	165.63 S	512.63 E	597,150.075	798,211.132	0.00	-142.83	0.00	
8,800.00	4.68	107.91	8,777.80	168.13 S	520.39 E	597,147.568	798,218.890	0.00	-144.99	0.00	
8,900.00	4.68	107.91	8,877.47	170.64 S	528.15 E	597,145.062	798,226.647	0.00	-147.15	0.00	
9,000.00	4.68	107.91	8,977.14	173.14 S	535.90 E	597,142.555	798,234.405	0.00	-149.31	0.00	
9,100.00	4.68	107.91	9,076.80	175.65 S	543.66 E	597,140.049	798,242.162	0.00	-151.47	0.00	
9,200.00	4.68	107.91	9,176.47	178.16 S	551.42 E	597,137.543	798,249.920	0.00	-153.63	0.00	
9,300.00	4.68	107.91	9,276.14	180.66 S	559.18 E	597,135.036	798,257.678	0.00	-155.79	0.00	
9,400.00	4.68	107.91	9,375.80	183.17 S	566.94 E	597,132.530	798,265.435	0.00	-157.96	0.00	
9,500.00	4.68	107.91	9,475.47	185.68 S	574.69 E	597,130.024	798,273.193	0.00	-160.12	0.00	
9,600.00	4.68	107.91	9,575.14	188.18 S	582.45 E	597,127.517	798,280.950	0.00	-162.28	0.00	
9,604.46	4.68	107.91	9,579.58	188.29 S	582.80 E	597,127.405	798,281.296	0.00	-162.37	0.00	Start Drop -2.00
9,614.91	4.47	107.91	9,590.00	188.55 S	583.59 E	597,127.149	798,282.089	2.00	-162.60	180.00	Bone Spring Sand

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
9,700.00	2.77	107.91	9,674.92	190.20 S	588.70 E	597,125.499	798,287.196	2.00	-164.02	-180.00	
9,800.00	0.77	107.91	9,774.86	191.15 S	591.63 E	597,124.552	798,290.127	2.00	-164.83	180.00	
9,838.27	0.00	0.00	9,813.13	191.23 S	591.87 E	597,124.474	798,290.370	2.00	-164.90	-180.00	Start 100.00 hold at 9838.27 MD
9,900.00	0.00	0.00	9,874.86	191.23 S	591.87 E	597,124.474	798,290.370	0.00	-164.90	0.00	
9,938.27	0.00	0.00	9,913.13	191.23 S	591.87 E	597,124.474	798,290.370	0.00	-164.90	0.00	Start Build 10.00
9,938.48	0.00	355.40	9,913.35	191.23 S	591.87 E	597,124.474	798,290.370	0.00	-164.90	355.40	Santa Vaca 19-18 B2NC SC #1H KOP (10 FSL)
10,000.00	6.17	355.40	9,974.74	187.91 S	591.60 E	597,127.786	798,290.104	10.04	-161.61	355.40	
10,100.00	16.17	355.40	10,072.72	168.62 S	590.05 E	597,147.077	798,288.551	10.00	-142.40	0.00	
10,160.68	22.24	355.40	10,130.00	148.73 S	588.45 E	597,166.966	798,286.951	10.00	-122.60	0.00	2nd Bone Spring Sand
10,200.00	26.17	355.40	10,165.86	132.67 S	587.16 E	597,183.034	798,285.658	10.00	-106.61	0.00	
10,300.00	36.17	355.40	10,251.31	81.14 S	583.01 E	597,234.564	798,281.512	10.00	-55.31	0.00	
10,400.00	46.17	355.40	10,326.48	15.60 S	577.74 E	597,300.103	798,276.239	10.00	9.93	0.00	
10,500.00	56.17	355.40	10,389.10	61.96 N	571.50 E	597,377.658	798,269.999	10.00	87.14	0.00	
10,600.00	66.17	355.40	10,437.26	149.17 N	564.48 E	597,464.874	798,262.982	10.00	173.96	0.00	
10,700.00	76.17	355.40	10,469.49	243.40 N	556.90 E	597,559.099	798,255.401	10.00	267.75	0.00	
10,800.00	86.17	355.40	10,484.81	341.77 N	548.99 E	597,657.471	798,247.486	10.00	365.68	0.00	
10,848.37	91.01	355.40	10,486.00	389.95 N	545.11 E	597,705.653	798,243.609	10.00	413.64	0.00	Start DLS 2.00 TFO 81.51
10,881.68	91.11	356.06	10,485.38	423.17 N	542.63 E	597,738.870	798,241.129	2.00	446.72	81.51	Start 9893.39 hold at 10881.68 MD
10,900.00	91.16	356.42	10,485.02	441.45 N	541.43 E	597,757.145	798,239.928	2.00	464.92	81.53	
11,000.00	91.46	358.40	10,482.74	541.31 N	536.91 E	597,857.012	798,235.412	2.00	564.49	81.53	
11,056.99	91.62	359.53	10,481.20	598.27 N	535.88 E	597,913.968	798,234.383	2.00	621.35	81.58	Start 9719.66 hold at 11056.99 MD
11,100.00	91.62	359.53	10,479.99	641.26 N	535.53 E	597,956.963	798,234.029	0.00	664.29	0.00	
11,200.00	91.62	359.53	10,477.16	741.22 N	534.71 E	598,056.919	798,233.206	0.00	764.11	0.00	
11,300.00	91.62	359.53	10,474.32	841.18 N	533.88 E	598,156.876	798,232.383	0.00	863.93	0.00	
11,400.00	91.62	359.53	10,471.49	941.13 N	533.06 E	598,256.832	798,231.560	0.00	963.75	0.00	
11,500.00	91.62	359.53	10,468.66	1,041.09 N	532.24 E	598,356.789	798,230.737	0.00	1,063.58	0.00	
11,600.00	91.62	359.53	10,465.83	1,141.05 N	531.41 E	598,456.745	798,229.914	0.00	1,163.40	0.00	
11,700.00	91.62	359.53	10,463.00	1,241.00 N	530.59 E	598,556.702	798,229.091	0.00	1,263.22	0.00	
11,800.00	91.62	359.53	10,460.17	1,340.96 N	529.77 E	598,656.658	798,228.268	0.00	1,363.04	0.00	
11,900.00	91.62	359.53	10,457.34	1,440.91 N	528.95 E	598,756.615	798,227.446	0.00	1,462.87	0.00	
12,000.00	91.62	359.53	10,454.50	1,540.87 N	528.12 E	598,856.571	798,226.623	0.00	1,562.69	0.00	
12,100.00	91.62	359.53	10,451.67	1,640.83 N	527.30 E	598,956.528	798,225.800	0.00	1,662.51	0.00	
12,200.00	91.62	359.53	10,448.84	1,740.78 N	526.48 E	599,056.484	798,224.977	0.00	1,762.34	0.00	
12,300.00	91.62	359.53	10,446.01	1,840.74 N	525.65 E	599,156.441	798,224.154	0.00	1,862.16	0.00	
12,400.00	91.62	359.53	10,443.18	1,940.70 N	524.83 E	599,256.397	798,223.331	0.00	1,961.98	0.00	
12,500.00	91.62	359.53	10,440.35	2,040.65 N	524.01 E	599,356.354	798,222.508	0.00	2,061.80	0.00	

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
12,600.00	91.62	359.53	10,437.52	2,140.61 N	523.19 E	599,456.310	798,221.685	0.00	2,161.63	0.00	
12,700.00	91.62	359.53	10,434.68	2,240.57 N	522.36 E	599,556.267	798,220.862	0.00	2,261.45	0.00	
12,800.00	91.62	359.53	10,431.85	2,340.52 N	521.54 E	599,656.223	798,220.040	0.00	2,361.27	0.00	
12,900.00	91.62	359.53	10,429.02	2,440.48 N	520.72 E	599,756.180	798,219.217	0.00	2,461.09	0.00	
13,000.00	91.62	359.53	10,426.19	2,540.44 N	519.89 E	599,856.136	798,218.394	0.00	2,560.92	0.00	
13,100.00	91.62	359.53	10,423.36	2,640.39 N	519.07 E	599,956.093	798,217.571	0.00	2,660.74	0.00	
13,200.00	91.62	359.53	10,420.53	2,740.35 N	518.25 E	600,056.049	798,216.748	0.00	2,760.56	0.00	
13,300.00	91.62	359.53	10,417.70	2,840.31 N	517.43 E	600,156.006	798,215.925	0.00	2,860.38	0.00	
13,400.00	91.62	359.53	10,414.86	2,940.26 N	516.60 E	600,255.962	798,215.102	0.00	2,960.21	0.00	
13,500.00	91.62	359.53	10,412.03	3,040.22 N	515.78 E	600,355.919	798,214.279	0.00	3,060.03	0.00	
13,600.00	91.62	359.53	10,409.20	3,140.18 N	514.96 E	600,455.876	798,213.456	0.00	3,159.85	0.00	
13,700.00	91.62	359.53	10,406.37	3,240.13 N	514.13 E	600,555.832	798,212.633	0.00	3,259.68	0.00	
13,800.00	91.62	359.53	10,403.54	3,340.09 N	513.31 E	600,655.789	798,211.811	0.00	3,359.50	0.00	
13,900.00	91.62	359.53	10,400.71	3,440.05 N	512.49 E	600,755.745	798,210.988	0.00	3,459.32	0.00	
14,000.00	91.62	359.53	10,397.88	3,540.00 N	511.66 E	600,855.702	798,210.165	0.00	3,559.14	0.00	
14,100.00	91.62	359.53	10,395.04	3,639.96 N	510.84 E	600,955.658	798,209.342	0.00	3,658.97	0.00	
14,200.00	91.62	359.53	10,392.21	3,739.91 N	510.02 E	601,055.615	798,208.519	0.00	3,758.79	0.00	
14,300.00	91.62	359.53	10,389.38	3,839.87 N	509.20 E	601,155.571	798,207.696	0.00	3,858.61	0.00	
14,400.00	91.62	359.53	10,386.55	3,939.83 N	508.37 E	601,255.528	798,206.873	0.00	3,958.43	0.00	
14,500.00	91.62	359.53	10,383.72	4,039.78 N	507.55 E	601,355.484	798,206.050	0.00	4,058.26	0.00	
14,600.00	91.62	359.53	10,380.89	4,139.74 N	506.73 E	601,455.441	798,205.227	0.00	4,158.08	0.00	
14,700.00	91.62	359.53	10,378.06	4,239.70 N	505.90 E	601,555.397	798,204.404	0.00	4,257.90	0.00	
14,800.00	91.62	359.53	10,375.22	4,339.65 N	505.08 E	601,655.354	798,203.582	0.00	4,357.72	0.00	
14,900.00	91.62	359.53	10,372.39	4,439.61 N	504.26 E	601,755.310	798,202.759	0.00	4,457.55	0.00	
15,000.00	91.62	359.53	10,369.56	4,539.57 N	503.44 E	601,855.267	798,201.936	0.00	4,557.37	0.00	
15,100.00	91.62	359.53	10,366.73	4,639.52 N	502.61 E	601,955.223	798,201.113	0.00	4,657.19	0.00	
15,200.00	91.62	359.53	10,363.90	4,739.48 N	501.79 E	602,055.180	798,200.290	0.00	4,757.02	0.00	
15,300.00	91.62	359.53	10,361.07	4,839.44 N	500.97 E	602,155.136	798,199.467	0.00	4,856.84	0.00	
15,400.00	91.62	359.53	10,358.24	4,939.39 N	500.14 E	602,255.093	798,198.644	0.00	4,956.66	0.00	
15,500.00	91.62	359.53	10,355.40	5,039.35 N	499.32 E	602,355.049	798,197.821	0.00	5,056.48	0.00	
15,600.00	91.62	359.53	10,352.57	5,139.31 N	498.50 E	602,455.006	798,196.998	0.00	5,156.31	0.00	
15,700.00	91.62	359.53	10,349.74	5,239.26 N	497.68 E	602,554.962	798,196.176	0.00	5,256.13	0.00	
15,800.00	91.62	359.53	10,346.91	5,339.22 N	496.85 E	602,654.919	798,195.353	0.00	5,355.95	0.00	
15,900.00	91.62	359.53	10,344.08	5,439.18 N	496.03 E	602,754.875	798,194.530	0.00	5,455.77	0.00	
16,000.00	91.62	359.53	10,341.25	5,539.13 N	495.21 E	602,854.832	798,193.707	0.00	5,555.60	0.00	
16,100.00	91.62	359.53	10,338.42	5,639.09 N	494.38 E	602,954.789	798,192.884	0.00	5,655.42	0.00	
16,200.00	91.62	359.53	10,335.58	5,739.05 N	493.56 E	603,054.745	798,192.061	0.00	5,755.24	0.00	

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
16,300.00	91.62	359.53	10,332.75	5,839.00 N	492.74 E	603,154.702	798,191.238	0.00	5,855.06	0.00	
16,400.00	91.62	359.53	10,329.92	5,938.96 N	491.92 E	603,254.658	798,190.415	0.00	5,954.89	0.00	
16,500.00	91.62	359.53	10,327.09	6,038.91 N	491.09 E	603,354.615	798,189.592	0.00	6,054.71	0.00	
16,600.00	91.62	359.53	10,324.26	6,138.87 N	490.27 E	603,454.571	798,188.769	0.00	6,154.53	0.00	
16,700.00	91.62	359.53	10,321.43	6,238.83 N	489.45 E	603,554.528	798,187.947	0.00	6,254.36	0.00	
16,800.00	91.62	359.53	10,318.60	6,338.78 N	488.62 E	603,654.484	798,187.124	0.00	6,354.18	0.00	
16,900.00	91.62	359.53	10,315.76	6,438.74 N	487.80 E	603,754.441	798,186.301	0.00	6,454.00	0.00	
17,000.00	91.62	359.53	10,312.93	6,538.70 N	486.98 E	603,854.397	798,185.478	0.00	6,553.82	0.00	
17,100.00	91.62	359.53	10,310.10	6,638.65 N	486.15 E	603,954.354	798,184.655	0.00	6,653.65	0.00	
17,200.00	91.62	359.53	10,307.27	6,738.61 N	485.33 E	604,054.310	798,183.832	0.00	6,753.47	0.00	
17,300.00	91.62	359.53	10,304.44	6,838.57 N	484.51 E	604,154.267	798,183.009	0.00	6,853.29	0.00	
17,400.00	91.62	359.53	10,301.61	6,938.52 N	483.69 E	604,254.223	798,182.186	0.00	6,953.11	0.00	
17,500.00	91.62	359.53	10,298.78	7,038.48 N	482.86 E	604,354.180	798,181.363	0.00	7,052.94	0.00	
17,600.00	91.62	359.53	10,295.94	7,138.44 N	482.04 E	604,454.136	798,180.540	0.00	7,152.76	0.00	
17,700.00	91.62	359.53	10,293.11	7,238.39 N	481.22 E	604,554.093	798,179.718	0.00	7,252.58	0.00	
17,800.00	91.62	359.53	10,290.28	7,338.35 N	480.39 E	604,654.049	798,178.895	0.00	7,352.40	0.00	
17,900.00	91.62	359.53	10,287.45	7,438.31 N	479.57 E	604,754.006	798,178.072	0.00	7,452.23	0.00	
18,000.00	91.62	359.53	10,284.62	7,538.26 N	478.75 E	604,853.962	798,177.249	0.00	7,552.05	0.00	
18,100.00	91.62	359.53	10,281.79	7,638.22 N	477.93 E	604,953.919	798,176.426	0.00	7,651.87	0.00	
18,200.00	91.62	359.53	10,278.96	7,738.18 N	477.10 E	605,053.875	798,175.603	0.00	7,751.70	0.00	
18,300.00	91.62	359.53	10,276.12	7,838.13 N	476.28 E	605,153.832	798,174.780	0.00	7,851.52	0.00	
18,400.00	91.62	359.53	10,273.29	7,938.09 N	475.46 E	605,253.788	798,173.957	0.00	7,951.34	0.00	
18,500.00	91.62	359.53	10,270.46	8,038.05 N	474.63 E	605,353.745	798,173.134	0.00	8,051.16	0.00	
18,600.00	91.62	359.53	10,267.63	8,138.00 N	473.81 E	605,453.702	798,172.312	0.00	8,150.99	0.00	
18,700.00	91.62	359.53	10,264.80	8,237.96 N	472.99 E	605,553.658	798,171.489	0.00	8,250.81	0.00	
18,800.00	91.62	359.53	10,261.97	8,337.91 N	472.17 E	605,653.615	798,170.666	0.00	8,350.63	0.00	
18,900.00	91.62	359.53	10,259.14	8,437.87 N	471.34 E	605,753.571	798,169.843	0.00	8,450.45	0.00	
19,000.00	91.62	359.53	10,256.30	8,537.83 N	470.52 E	605,853.528	798,169.020	0.00	8,550.28	0.00	
19,100.00	91.62	359.53	10,253.47	8,637.78 N	469.70 E	605,953.484	798,168.197	0.00	8,650.10	0.00	
19,200.00	91.62	359.53	10,250.64	8,737.74 N	468.87 E	606,053.441	798,167.374	0.00	8,749.92	0.00	
19,300.00	91.62	359.53	10,247.81	8,837.70 N	468.05 E	606,153.397	798,166.551	0.00	8,849.74	0.00	
19,400.00	91.62	359.53	10,244.98	8,937.65 N	467.23 E	606,253.354	798,165.728	0.00	8,949.57	0.00	
19,500.00	91.62	359.53	10,242.15	9,037.61 N	466.41 E	606,353.310	798,164.905	0.00	9,049.39	0.00	
19,600.00	91.62	359.53	10,239.32	9,137.57 N	465.58 E	606,453.267	798,164.083	0.00	9,149.21	0.00	
19,700.00	91.62	359.53	10,236.48	9,237.52 N	464.76 E	606,553.223	798,163.260	0.00	9,249.04	0.00	
19,800.00	91.62	359.53	10,233.65	9,337.48 N	463.94 E	606,653.180	798,162.437	0.00	9,348.86	0.00	
19,900.00	91.62	359.53	10,230.82	9,437.44 N	463.11 E	606,753.136	798,161.614	0.00	9,448.68	0.00	

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2**

Measured Depth (usft)	Inclination (")	Grid Azimuth (")	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (")	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
20,000.00	91.62	359.53	10,227.99	9,537.39 N	462.29 E	606,853.093	798,160.791	0.00	9,548.50	0.00	
20,100.00	91.62	359.53	10,225.16	9,637.35 N	461.47 E	606,953.049	798,159.968	0.00	9,648.33	0.00	
20,200.00	91.62	359.53	10,222.33	9,737.31 N	460.65 E	607,053.006	798,159.145	0.00	9,748.15	0.00	
20,300.00	91.62	359.53	10,219.50	9,837.26 N	459.82 E	607,152.962	798,158.322	0.00	9,847.97	0.00	
20,400.00	91.62	359.53	10,216.66	9,937.22 N	459.00 E	607,252.919	798,157.499	0.00	9,947.79	0.00	
20,500.00	91.62	359.53	10,213.83	10,037.18 N	458.18 E	607,352.875	798,156.677	0.00	10,047.62	0.00	
20,600.00	91.62	359.53	10,211.00	10,137.13 N	457.35 E	607,452.832	798,155.854	0.00	10,147.44	0.00	
20,700.00	91.62	359.53	10,208.17	10,237.09 N	456.53 E	607,552.788	798,155.031	0.00	10,247.26	0.00	
20,775.07	91.62	359.53	10,206.04	10,312.13 N	455.91 E	607,627.828	798,154.413	0.00	10,322.20	0.00	TD at 20775.07
20,776.64	91.62	359.53	10,206.00	10,313.70 N	455.90 E	607,629.400	798,154.400	0.00	10,323.77	0.00	TD at 20776.64 - Santa Vaca 19-18 B2NC SC #1H BHL (100 FNL)

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,975.00	1,975.00	0.00	0.00	Start Build 2.00
2,208.81	2,208.55	-2.93	9.07	Start 7395.65 hold at 2208.81 MD
9,604.46	9,579.58	-188.29	582.80	Start Drop -2.00
9,838.27	9,813.13	-191.23	591.87	Start 100.00 hold at 9838.27 MD
9,938.27	9,913.13	-191.23	591.87	Start Build 10.00
10,848.37	10,486.00	389.95	545.11	Start DLS 2.00 TFO 81.51
10,881.68	10,485.38	423.17	542.63	Start 9893.39 hold at 10881.68 MD
11,056.99	10,481.20	598.27	535.88	Start 9719.66 hold at 11056.99 MD
20,775.07	10,206.04	10,312.13	455.91	TD at 20775.07
20,776.64	10,206.00	10,313.70	455.90	TD at 20776.64

Vertical Section Information

Angle Type	Target	Azimuth (")	Origin Type	Origin +N/-S (usft)	Origin +E/-W (usft)	Start TVD (usft)
TD	No Target (Freehand)	2.53	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	20,776.64	Plan #1.2	3_MWD+HRGM

HALLIBURTON**Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2****Casing Details**

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,875.00	1,875.00	13 3/8" Casing	13-3/8	17-1/2
10,783.58	10,483.48	7 5/8" Casing	7-5/8	8-3/4
20,709.45	10,207.90	5" Casing	5	6-1/8

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,805.00	1,805.00	-2,011.00	Rustler			
2,105.04	2,105.00	-1,711.00	Salt Top			
3,304.91	3,301.00	-515.00	Salt Base			
3,484.51	3,480.00	-336.00	Yates			
4,051.39	4,045.00	229.00	Seven Rivers			
4,773.80	4,765.00	949.00	Queen			
5,320.62	5,310.00	1,494.00	Grayburg			
6,349.04	6,335.00	2,519.00	Delaware (Lamar)			
8,200.20	8,180.00	4,364.00	Bone Spring			
9,614.91	9,590.00	5,774.00	Bone Spring Sand			
10,160.68	10,130.00	6,314.00	2nd Bone Spring Sand			

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
Santa Vaca 19-18 B2NC SC #1H KOP (10 FSL) (10 FSL, 1980 FWL Sec 19)									
	0.00	0.00	9,913.13	-191.23	541.87	597,124.474	798,240.371	32° 38' 19.570901 N	103° 29' 55.525471 W
- plan misses target center by 50.00usft at 9938.27usft MD (9913.13 TVD, -191.23 N, 591.87 E)									
- Point									
Santa Vaca 19-18 B2NC SC #1H BHL (100 FNL) (100 FNL, 1980 FWL Sec 18)									
	0.00	0.00	10,206.00	10,313.70	455.90	607,629.403	798,154.400	32° 40' 3.516862 N	103° 29' 55.565296 W
- plan hits target center									
- Point									

HALLIBURTON

Mewbourne Oil Company
Lea County, NM (NAD83)

Plan Report for Santa Vaca 19-18 B2NC State Com #1H - Plan #1.2

Directional Difficulty Index

Average Dogleg over Survey:	0.49 °/100usft	Maximum Dogleg over Survey:	10.00 °/100usft at 10,848.37 usft
Net Tortosity applicable to Plans:	0.49 °/100usft	Directional Difficulty Index:	6.525

Audit Info

HALLIBURTON**Mewbourne Oil Company**

Lea County, NM (NAD83)

North Reference Sheet for Sec 19-T19S-R35E - Santa Vaca 19-18 B2NC State Com #1H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to 3788 GL + 28 KB @ 3816.00usft (260). Northing and Easting are relative to Santa Vaca 19-18 B2NC State Com #1H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 19' 60.000000 W°, Longitude Origin:0° 0' 0.000000 E°, Latitude Origin:0° 0' 0.000000 N°

False Easting: 541,337.500usft, False Northing: 0.000usft, Scale Reduction: 0.99998435

Grid Coordinates of Well: 597,315.700 usft N, 797,698.500 usft E

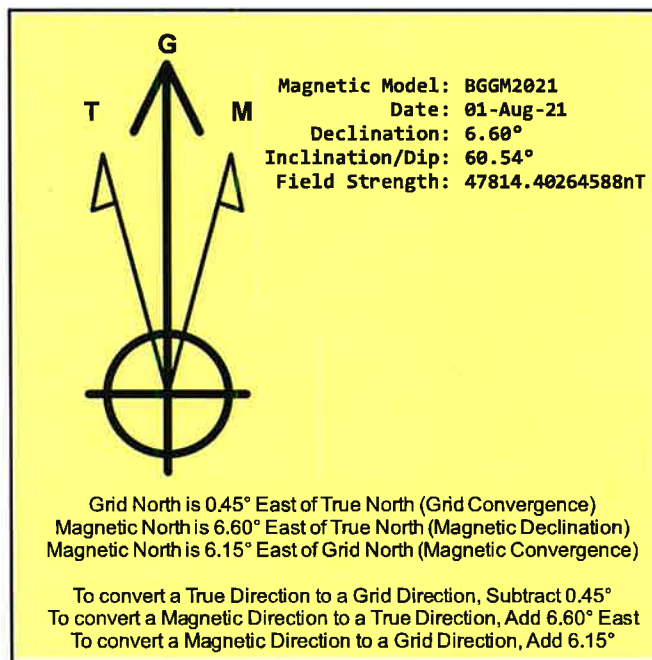
Geographical Coordinates of Well: 32° 38' 21.505041 N, 103° 30' 1.844528 W

Grid Convergence at Surface is: 0.45°

Based upon Minimum Curvature type calculations, at a Measured Depth of 20,776.64usft

the Bottom Hole Displacement is 10,323.77usft in the Direction of 2.53° (Grid).

Magnetic Convergence at surface is: -6.15° (1 August 2021, , BGGM2021)



Intent ☐ As Drilled ☒

API # 30-025-49154		
Operator Name: Mewbourne Oil Co.	Property Name: Sana Vaca 19/18 B2NC State Com	Well Number 1H

Kick Off Point (KOP)

UL N	Section 19	Township 19S	Range 35E	Lot	Feet 7	From N/S S	Feet 2039	From E/W W	County EDDY
Latitude 32.6387622					Longitude -103.4985624				NAD 83

First Take Point (FTP)

UL N	Section 19	Township 19S	Range 35E	Lot	Feet 326	From N/S S	Feet 1988	From E/W W	County EDDY
Latitude 32.6396391					Longitude -103.4987293				NAD 83

Last Take Point (LTP)

UL C	Section 18	Township 19S	Range 35E	Lot	Feet 104	From N/S N	Feet 1980	From E/W W	County EDDY
Latitude 32.6676806					Longitude -103.4987668				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NIs this well an infill well? ☐ Y

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

API #		
Operator Name: Mewbourne Oil Co.	Property Name: Santa Vaca 19/18 B3NC State Com	Well Number 1H

KZ 06/29/2018

Submit 1 Copy To Appropriate District Office

1625 N. French Dr., Hobbs, NM 88240
 District I - (575) 748-1283
 811 S. Fir St., Artesia, NM 88210
 District II - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District III - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELLAPINO.
 30-025-49154

5. Indicate Type of Lease
 STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
 Santa Vaca 19/18 B2NC State Com

8. Well Number 1H

9. OGRID Number 14744

10. Pool name or Wildcat
 [55610] SCHARB; BONE SPRING

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
 Mewbourne Oil Company

3. Address of Operator
 PO Box 5270 Hobbs, NM 88240

4. Well Location

Unit Letter N. . . . : 205 . . . feet from the South . . . line and 1440 . . . feet from the West . . . line
 Section 19 . . . Township 19S . . . Range 35E . . . NMPM Lea . . . County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 3788 GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COM PL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING ☐ PANDA ☐
 CASING/CEMENT JOB ☐
 OTHER: Completion Sundry ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

12/27/21:

Frac horizontal Bone Spring w/19705266 gals brackish slickwater, carrying 20220260# local 100 mesh sand.

02/17/2022:

Drill out frac plugs to PBTD @20,831'. (Perforations 10626-20818 - 51 Stages, 0.39" EHD, 1836 holes)

TD 20836 PBTD 20831

02/25/2022

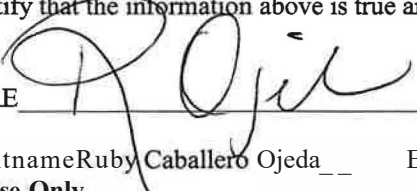
PWOL.

FORMATION TOPS: T/salt 2105', B/salt 3301', Yates 3480', Queen 4765', Grayburg 5310', Delaware 6335', Bone Spring 8180', 1st Bone Spring 9590', 2nd Bone Spring 10130'.

Spud Date: 10/22/2021

Rig Release Date: 12/10/2021

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

SIGNATURE  TITLE Regulatory DATE 03/18/2022

Type or print name Ruby Caballero Ojeda E-mail address: rcaballero@mewbourne.com PHONE: 575-393-5905

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG							1. WELL API NO. 30-025-49154			
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)							2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN			
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER							3. State Oil & Gas Lease No.			
8. Name of Operator Mewbourne Oil Company						9. OGRID 14744				
10. Address of Operator PO Box 5270 Hobbs, NM 88241						11. Pool name or Wildcat [55610] SCHARB;BONE SPRING				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	N	19	19S	35E		205	South	1440	West	Lea
BH:	C	19	19S	35E		86	North	1980	West	Lea
13. Date Spudded 10/22/2021		14. Date T.D. Reached 12/07/2021		15. Date Rig Released 12/10/2021		16. Date Completed (Ready to Produce) 02/25/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3788' GL		
18. Total Measured Depth of Well 20836'			19. Plug Back Measured Depth 20831'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 10626' – 20818' Bone Spring										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5#		1906'		17 1/2"		1325		Surface
9 5/8"		40#		3501'		12 1/4"		875		
7"		29#		9950' MD		8 3/4"		1000		Surface
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD				
4 1/2"	9709' (MD)	20836' (MD)	925			SIZE	DEPTH SET	PACKER SET		
						2 7/8"	9656'	NA		
26. Perforation record (interval, size, and number) 10626' – 20818' (51 stages, 0.39" EHD, 1836 holes)										
						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10626' – 20818'		Frac horizontal Bone Spring w/19705266 gals brackish slickwater, carrying 20220260# local 100 mesh sand.		
28. PRODUCTION										
Date First Production 02/25/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 03/04/2022	Hours Tested 24	Choke Size n/a"	Prod'n For Test Period	Oil - Bbl 838	Gas - MCF 403	Water - Bbl. 2925	Gas - Oil Ratio 480			
Flow Tubing Press.510	Casing Pressure 315	Calculated 24- Hour Rate	Oil - Bbl. 838	Gas - MCF 403	Water - Bbl. 2925	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold							30. Test Witnessed By Robin Terrell			
31. List Attachments As drilled C-102, Directional survey, C-104, completion sundry, additional kickoff sheet & Wellbore schematic										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date: 12/10/2021			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude					Longitude			NAD83		

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Ruby Caballero Ojeda Printed

Signature 

Name

Title Regulatory

Date 03/18/2022

E-mail Address rcaballero@mewbourne.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 2105	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 3301	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates 3480	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers 4045	T. Devonian	T. Cliff House	T. Leadville
T. Queen 4765	T. Silurian	T. Menefee	T. Madison
T. Grayburg 5310	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinbry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware (Iamar) 6335	T. Morrison	
T. Drinkard	T. Bone Springs 8180	T. Todilto	
T. Abo	T. 1 st Bone Spring 9590	T. Entrada	
T. Wolfcamp	T. 2 nd Bone Spring 10130	T. Wingate	
T. Penn	T. 3 rd Bone Spring	T. Chinle	
T. Cisco (Bough C)	T. Rustler 1805	T. Permian	

**OIL OR GAS
SANDS OR ZONES**

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
------	----	----------------------	-----------	------	----	----------------------	-----------

Mewbourne Oil Company

Well Name: Santa Vaca 19/18 B2NC State Com #1H

Updated by: Rhet Maxey

Date Updated: 3/10/2022

Spud Date: 10/22/21
 Rig Release: 12/10/2021
 Frac Complete: 02/04/2022
 Prod Date: 02/24/2022
 GL: 3788

Surface

17 1/2" x 13 1/4" 54.5# J55
 Set @ 1906'
 Cmt w/ 1325 sx
 Circ. 333 sx to pit

Intermediate

12 1/4" x 9 1/4" 38# J55
 Set @ 3501'
 Cmt w/ 875 sx
 Circ. 227 sx to pit

Production

8 3/4" x 7" 20# CYP110
 Set @ 9950'
 Cmt w/ 1000 sx
 Circ. 56 sx to pit
 DV Tool @ 4987'

TBG Details:

1 5 1/2" No Go BP	0.54'
4 4 1/2" 11.6# J55 LT&C Csg	128.53'
1 4 1/2" x 2 1/4" XO	1.10'
1 Cavins Desander	6.00'
1 SLB 400 Sensor (5800 psi)	1.87'
1 SLB 456 LT Motor (195HP/1619V/78.6A)	23.20'
1 SLB 456 LT Motor (195HP/1619V/78.6A)	23.60'
1 SLB 400/456 Protector	10.40'
1 SLB 300 Gas Separator/Intake	3.33'
1 SLB 400 Gas Separator	3.00'
1 SLB 400 AGH	6.58'
1 SLB 400 Series Pump (89 stages)	21.83'
1 SLB 400 Series Pump (89 stages)	21.83'
1 SLB 400 Series Pump (89 stages)	21.83'
1 SLB 400 Series Pump (89 stages)	21.83'
1 SLB Discharge Head	0.54'
1 2 1/4" SN w/collar	1.10'
283 2 1/4" 6.5# L80 IPC Tbg	9331.57'

Total tbg	9628.68'
KB Correction	28.00'
Tbg set @	9656.68'

	Lat	Long	Footage	Section	Town/Rng	Lease	MD
SHL	32.639307	-103.5005124	205' FSL & 1440' FWL	19	19S/35E	State	
KOP	32.638762	-103.4985624	7' FSL & 2039' FWL	19	19S/35E	State	9997
FTP	32.639639	-103.4987293	326' FSL & 1988' FWL	19	19S/35E	State	10626
LTP	32.667632	-103.498766	104' FNL & 1980' FWL	18	19S/35E	State	20818
BHL	32.667681	-103.4987668	86' FNL & 1980' FWL	18	19S/35E	State	20836

Line:
 6 1/8" x 4 1/2" 13.5 # HCP110
 Set @ 9708' - 20836'
 Cmt w/ 925 sx
 TOC @ 9708'

KOP @ 9997'
 Dev @ KOP: 0.17°

TVD @ 10258'
 TD 6 1/8" hole @ 20836'
 PBTD: 20831'
 Perfs: 10626' - 20818', 0.39, 1836

Frac horizontal Bone Spring w/19705266 gals brackish slickwater, carrying 20220260# local 100 mesh sand.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 91684

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 91684
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 91684

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 91684
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Future submittal of C-103 Completion Sundry -please include Perf. and Frac. information, also include TD of well.	11/12/2024
plmartinez	Going forward please upload all forms in an upright position.	11/12/2024