

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

Form C-101
August 1, 2011

Permit 293427

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

1. Operator Name and Address BREITBURN OPERATING LP 1111 Bagby St. Suite 1600 Houston, TX 77002		2. OGRID Number 370080
		3. API Number 30-025-48599
4. Property Code 330428	5. Property Name MNR 20 STATE	6. Well No. 001H

7. Surface Location

UL - Lot M	Section 20	Township 22S	Range 37E	Lot Idn M	Feet From 828	N/S Line S	Feet From 521	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot M	Section 29	Township 22S	Range 37E	Lot Idn M	Feet From 50	N/S Line S	Feet From 380	E/W Line W	County Lea
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9. Pool Information

DRINKARD	19190
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3388
16. Multiple N	17. Proposed Depth 12547	18. Formation Drinkard	19. Contractor	20. Spud Date 5/24/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1180	765	0
Int1	12.25	9.625	40	6100	2015	0
Prod	8.75	5.5	20	12547	2050	5100

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	TBD
Double Ram	5000	5000	TBD
Pipe	5000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Nicole Lee	Approved By: Paul F Kautz	
Title: Reg Comp Tech	Title: Geologist	
Email Address: regulatory@mavresources.com	Approved Date: 4/7/2021	Expiration Date: 4/7/2023
Date: 4/7/2021	Phone: 713-437-8050	Conditions of Approval Attached

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DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 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, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-48599	Pool Code 19190	Pool Name Drinkard
Property Code 330428	Property Name MNR 20 STATE	Well Number 001H
OGRID No. 370080	Operator Name BREITBURN OPERATING, LP	Elevation 3387.9'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	20	22-S	37-E		828	SOUTH	521	WEST	LEA

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
M	29	22-S	37-E		50	SOUTH	380	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
200	N		

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

FTP 290' FSL & 380' FWL Y=500472.2 N X=852413.2 E LAT.=32.370746° N LONG.=103.191913° W GRID AZ. TO FTP 194°01'34" 521' S.L. 828' GRID AZ. - 179°20'52" HORZ. DIST. - 5509.8' HORIZONTAL SPACING UNIT 100' FSL & 380' FWL Y=495012.8 N X=852475.3 E LAT.=32.355740° N LONG.=103.191900° W 380' B.H. 50' SECTION 20 SECTION 29 NAD 27 NME SURFACE LOCATION Y=501012.1 N X=852548.0 E LAT.=32.372226° N LONG.=103.191457° W NAD 27 NME PROPOSED BOTTOM HOLE LOCATION Y=494962.8 N X=852475.9 E LAT.=32.355602° N LONG.=103.191900° W	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Austin Tramell</i> 03/29/2021 Signature Date Austin Tramell Printed Name austin.tramell@mavresources.com E-mail Address 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. MARCH 24, 2021 Date of Survey Signature & Seal of Professional Surveyor <i>Chad Hargrow</i> 3/25/21 Certificate No. CHAD HARGROW 17777 W.O. # 21-297 DRAWN BY: AH
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Oil Conservation Division
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GAS CAPTURE PLAN

Date: 4/7/2021

☒ Original

Operator & OGRID No.: [370080] BREITBURN OPERATING LP

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MNR 20 STATE #001H	30-025-48599	M-20-22S-37E	0828S 0521W	1500	None	Gas captured via facilities on pad and sold through lines

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to TARGA MIDSTREAM SERVICES LLC and will be connected to TARGA MIDSTREAM SERVICES LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 2640' of pipeline to connect the facility to Low Pressure gathering system. BREITBURN OPERATING LP provides (periodically) to TARGA MIDSTREAM SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, BREITBURN OPERATING LP and TARGA MIDSTREAM SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at TARGA MIDSTREAM SERVICES LLC Processing Plant located in Sec. 03, Twn. 23S, Rng. 37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA MIDSTREAM SERVICES LLC system at that time. Based on current information, it is BREITBURN OPERATING LP's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 293427

PERMIT COMMENTS

Operator Name and Address: BREITBURN OPERATING LP [370080] 1111 Bagby St. Suite 1600 Houston, TX 77002		API Number: 30-025-48599
		Well: MNR 20 STATE #001H
Created By	Comment	Comment Date
atramell	Written Waiver received on 04/06/2021 from Maximum Lease Services, Inc.	4/7/2021

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Santa Fe, NM 87505

Form APD Conditions

Permit 293427

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: BREITBURN OPERATING LP [370080] 1111 Bagby St. Suite 1600 Houston, TX 77002	API Number: 30-025-48599
	Well: MNR 20 STATE #001H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

Breitburn Operating LP

Project: Lea County, NM
Site: MNR 20 State
Well: 001H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.61°
Magnetic North: 5.87°

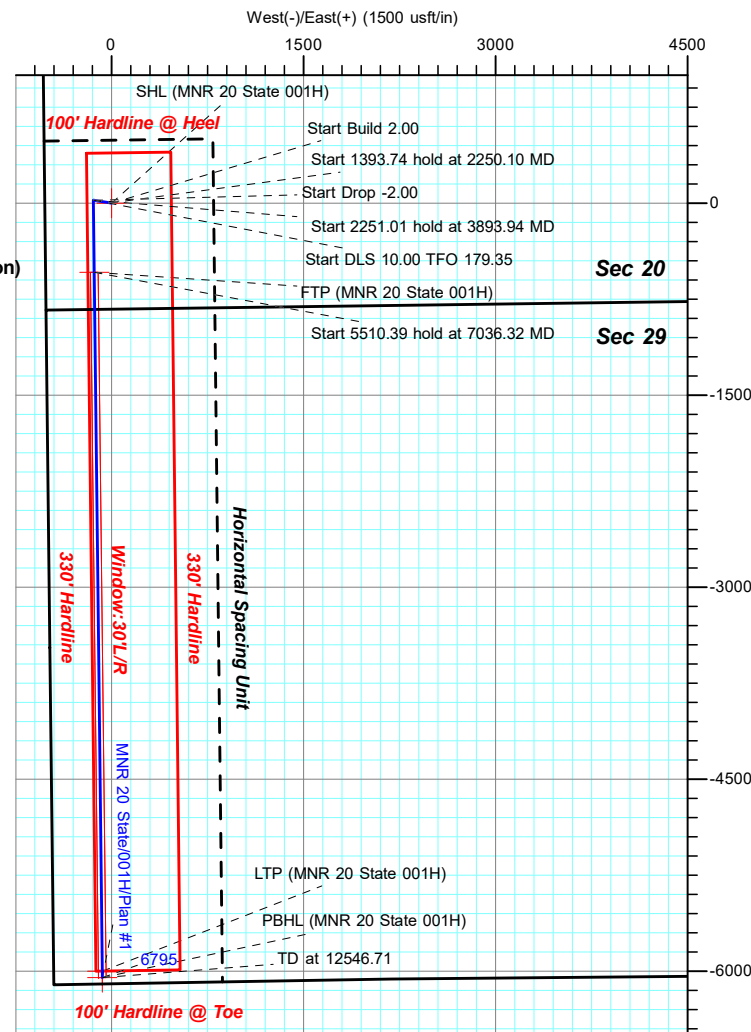
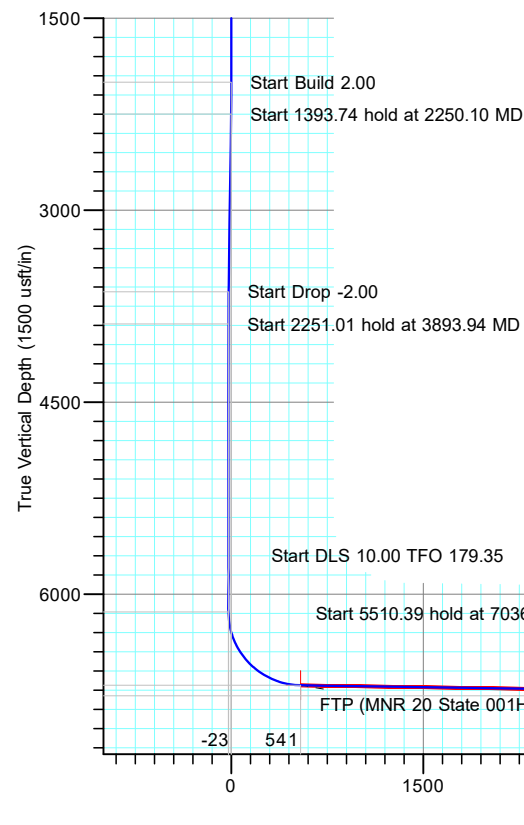
Magnetic Field
Strength: 47951.4nT
Dip Angle: 60.18°
Date: 3/29/2021
Model: HDGM_FILE

PROJECT DETAILS: Lea County, NM

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
Datum: GE 3387.9' + KB 18' @ 3405.90usft (TBD)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2250.10	5.00	279.80	2249.78	1.86	-10.75	2.00	279.80	-1.73	
4	3643.84	5.00	279.80	3638.22	22.54	-130.50	0.00	0.00	-20.99	
5	3893.94	0.00	0.00	3888.00	24.40	-141.25	2.00	180.00	-22.71	
6	6144.95	0.00	0.00	6139.01	24.40	-141.25	0.00	0.00	-22.71	
7	7036.32	89.14	179.35	6711.90	-539.89	-134.83	10.00	179.35	541.46	
8	12546.71	89.14	179.35	6794.90	-6049.30	-72.10	0.00	0.00	6049.73	PBHL (MNR 20 State 001H)



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (MNR 20 State 001H)	0.00	0.00	0.00	501012.10	852548.00	32° 22' 20.014 N	103° 11' 29.248 W
FTP (MNR 20 State 001H)	6711.90	-539.90	-134.80	500472.20	852413.20	32° 22' 14.687 N	103° 11' 30.886 W
LTP (MNR 20 State 001H)	6794.15	-5999.30	-72.70	495012.80	852475.30	32° 21' 20.664 N	103° 11' 30.841 W
PBHL (MNR 20 State 001H)	6794.90	-6049.30	-72.10	494962.80	852475.90	32° 21' 20.169 N	103° 11' 30.840 W



LEAM DRILLING SERVICES
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax: 936/756-7595

Plan: Plan #1 (001H/OH)
MNR 20 State
Created By: James Peacock Date: 10:29, March 30, 2021
Approved: _____ Date: _____

Breitburn Operating LP

Lea County, NM

MNR 20 State

001H

OH

Plan: Plan #1

Standard Planning Report

30 March, 2021

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well 001H
Company:	Breitburn Operating LP	TVD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Project:	Lea County, NM	MD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Site:	MNR 20 State	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	MNR 20 State				
Site Position:		Northing:	501,012.10 usft	Latitude:	32° 22' 20.014 N
From:	Map	Easting:	852,548.00 usft	Longitude:	103° 11' 29.248 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.61 °

Well	001H					
Well Position	+N/-S	0.00 usft	Northing:	501,012.10 usft	Latitude:	32° 22' 20.014 N
	+E/-W	0.00 usft	Easting:	852,548.00 usft	Longitude:	103° 11' 29.248 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,387.90 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	3/29/2021	6.48	60.18	47,951.40000000

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.68

Plan Survey Tool Program	Date	3/29/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,546.32 Plan #1 (OH)	LEAM_MWD+HDGM	
			LEAM MWD + HDGM	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,250.10	5.00	279.80	2,249.78	1.86	-10.75	2.00	2.00	0.00	279.80	
3,643.84	5.00	279.80	3,638.22	22.54	-130.50	0.00	0.00	0.00	0.00	
3,893.94	0.00	0.00	3,888.00	24.40	-141.25	2.00	-2.00	0.00	180.00	
6,144.95	0.00	0.00	6,139.01	24.40	-141.25	0.00	0.00	0.00	0.00	
7,036.32	89.14	179.35	6,711.90	-539.89	-134.83	10.00	10.00	20.12	179.35	
12,546.71	89.14	179.35	6,794.90	-6,049.30	-72.10	0.00	0.00	0.00	0.00	PBHL (MNR 20 State)

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well 001H
Company:	Breitburn Operating LP	TVD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Project:	Lea County, NM	MD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Site:	MNR 20 State	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (MNR 20 State 001H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	279.80	2,099.98	0.30	-1.72	-0.28	2.00	2.00	0.00
2,200.00	4.00	279.80	2,199.84	1.19	-6.88	-1.11	2.00	2.00	0.00
2,250.10	5.00	279.80	2,249.78	1.86	-10.75	-1.73	2.00	2.00	0.00
2,300.00	5.00	279.80	2,299.49	2.60	-15.04	-2.42	0.00	0.00	0.00
2,400.00	5.00	279.80	2,399.11	4.08	-23.63	-3.80	0.00	0.00	0.00
2,500.00	5.00	279.80	2,498.73	5.57	-32.22	-5.18	0.00	0.00	0.00
2,600.00	5.00	279.80	2,598.35	7.05	-40.81	-6.56	0.00	0.00	0.00
2,700.00	5.00	279.80	2,697.97	8.53	-49.41	-7.95	0.00	0.00	0.00
2,800.00	5.00	279.80	2,797.59	10.02	-58.00	-9.33	0.00	0.00	0.00
2,900.00	5.00	279.80	2,897.21	11.50	-66.59	-10.71	0.00	0.00	0.00
3,000.00	5.00	279.80	2,996.83	12.99	-75.18	-12.09	0.00	0.00	0.00
3,100.00	5.00	279.80	3,096.45	14.47	-83.77	-13.47	0.00	0.00	0.00
3,200.00	5.00	279.80	3,196.06	15.96	-92.36	-14.85	0.00	0.00	0.00
3,300.00	5.00	279.80	3,295.68	17.44	-100.96	-16.24	0.00	0.00	0.00
3,400.00	5.00	279.80	3,395.30	18.92	-109.55	-17.62	0.00	0.00	0.00
3,500.00	5.00	279.80	3,494.92	20.41	-118.14	-19.00	0.00	0.00	0.00
3,600.00	5.00	279.80	3,594.54	21.89	-126.73	-20.38	0.00	0.00	0.00
3,643.84	5.00	279.80	3,638.22	22.54	-130.50	-20.99	0.00	0.00	0.00
3,700.00	3.88	279.80	3,694.21	23.28	-134.78	-21.67	2.00	-2.00	0.00
3,800.00	1.88	279.80	3,794.07	24.14	-139.73	-22.47	2.00	-2.00	0.00
3,893.94	0.00	0.00	3,888.00	24.40	-141.25	-22.71	2.00	-2.00	0.00
3,900.00	0.00	0.00	3,894.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,000.00	0.00	0.00	3,994.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,100.00	0.00	0.00	4,094.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,200.00	0.00	0.00	4,194.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,300.00	0.00	0.00	4,294.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,400.00	0.00	0.00	4,394.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,500.00	0.00	0.00	4,494.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,600.00	0.00	0.00	4,594.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,700.00	0.00	0.00	4,694.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,800.00	0.00	0.00	4,794.06	24.40	-141.25	-22.71	0.00	0.00	0.00
4,900.00	0.00	0.00	4,894.06	24.40	-141.25	-22.71	0.00	0.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well 001H
Company:	Breitburn Operating LP	TVD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Project:	Lea County, NM	MD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Site:	MNR 20 State	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
5,000.00	0.00	0.00	4,994.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,100.00	0.00	0.00	5,094.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,200.00	0.00	0.00	5,194.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,300.00	0.00	0.00	5,294.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,400.00	0.00	0.00	5,394.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,500.00	0.00	0.00	5,494.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,600.00	0.00	0.00	5,594.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,700.00	0.00	0.00	5,694.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,800.00	0.00	0.00	5,794.06	24.40	-141.25	-22.71	0.00	0.00	0.00
5,900.00	0.00	0.00	5,894.06	24.40	-141.25	-22.71	0.00	0.00	0.00
6,000.00	0.00	0.00	5,994.06	24.40	-141.25	-22.71	0.00	0.00	0.00
6,100.00	0.00	0.00	6,094.06	24.40	-141.25	-22.71	0.00	0.00	0.00
6,144.95	0.00	0.00	6,139.01	24.40	-141.25	-22.71	0.00	0.00	0.00
6,150.00	0.50	179.35	6,144.06	24.38	-141.25	-22.69	10.00	10.00	0.00
6,200.00	5.50	179.35	6,193.97	21.76	-141.22	-20.07	10.00	10.00	0.00
6,250.00	10.50	179.35	6,243.47	14.80	-141.14	-13.11	10.00	10.00	0.00
6,300.00	15.50	179.35	6,292.17	3.55	-141.01	-1.87	10.00	10.00	0.00
6,350.00	20.50	179.35	6,339.71	-11.90	-140.84	13.58	10.00	10.00	0.00
6,400.00	25.50	179.35	6,385.72	-31.43	-140.61	33.10	10.00	10.00	0.00
6,450.00	30.50	179.35	6,429.85	-54.90	-140.35	56.57	10.00	10.00	0.00
6,500.00	35.50	179.35	6,471.77	-82.12	-140.04	83.79	10.00	10.00	0.00
6,550.00	40.50	179.35	6,511.15	-112.90	-139.69	114.56	10.00	10.00	0.00
6,600.00	45.50	179.35	6,547.71	-146.99	-139.30	148.64	10.00	10.00	0.00
6,650.00	50.50	179.35	6,581.15	-184.13	-138.88	185.78	10.00	10.00	0.00
6,700.00	55.50	179.35	6,611.23	-224.05	-138.42	225.69	10.00	10.00	0.00
6,750.00	60.50	179.35	6,637.71	-266.44	-137.94	268.07	10.00	10.00	0.00
6,800.00	65.50	179.35	6,660.40	-310.98	-137.43	312.59	10.00	10.00	0.00
6,850.00	70.50	179.35	6,679.12	-357.32	-136.90	358.93	10.00	10.00	0.00
6,900.00	75.50	179.35	6,693.73	-405.12	-136.36	406.71	10.00	10.00	0.00
6,950.00	80.50	179.35	6,704.12	-454.01	-135.80	455.59	10.00	10.00	0.00
7,000.00	85.50	179.35	6,710.21	-503.62	-135.24	505.19	10.00	10.00	0.00
7,036.32	89.14	179.35	6,711.90	-539.89	-134.83	541.46	10.00	10.00	0.00
7,036.33	89.14	179.35	6,711.90	-539.90	-134.83	541.47	0.00	0.00	0.00
FTP (MNR 20 State 001H)									
7,100.00	89.14	179.35	6,712.86	-603.56	-134.10	605.11	0.00	0.00	0.00
7,200.00	89.14	179.35	6,714.37	-703.54	-132.96	705.07	0.00	0.00	0.00
7,300.00	89.14	179.35	6,715.87	-803.52	-131.82	805.04	0.00	0.00	0.00
7,400.00	89.14	179.35	6,717.38	-903.50	-130.69	905.00	0.00	0.00	0.00
7,500.00	89.14	179.35	6,718.89	-1,003.49	-129.55	1,004.96	0.00	0.00	0.00
7,600.00	89.14	179.35	6,720.39	-1,103.47	-128.41	1,104.92	0.00	0.00	0.00
7,700.00	89.14	179.35	6,721.90	-1,203.45	-127.27	1,204.88	0.00	0.00	0.00
7,800.00	89.14	179.35	6,723.41	-1,303.43	-126.13	1,304.84	0.00	0.00	0.00
7,900.00	89.14	179.35	6,724.91	-1,403.41	-124.99	1,404.80	0.00	0.00	0.00
8,000.00	89.14	179.35	6,726.42	-1,503.40	-123.86	1,504.77	0.00	0.00	0.00
8,100.00	89.14	179.35	6,727.92	-1,603.38	-122.72	1,604.73	0.00	0.00	0.00
8,200.00	89.14	179.35	6,729.43	-1,703.36	-121.58	1,704.69	0.00	0.00	0.00
8,300.00	89.14	179.35	6,730.94	-1,803.34	-120.44	1,804.65	0.00	0.00	0.00
8,400.00	89.14	179.35	6,732.44	-1,903.33	-119.30	1,904.61	0.00	0.00	0.00
8,500.00	89.14	179.35	6,733.95	-2,003.31	-118.16	2,004.57	0.00	0.00	0.00
8,600.00	89.14	179.35	6,735.45	-2,103.29	-117.03	2,104.54	0.00	0.00	0.00
8,700.00	89.14	179.35	6,736.96	-2,203.27	-115.89	2,204.50	0.00	0.00	0.00
8,800.00	89.14	179.35	6,738.47	-2,303.25	-114.75	2,304.46	0.00	0.00	0.00
8,900.00	89.14	179.35	6,739.97	-2,403.24	-113.61	2,404.42	0.00	0.00	0.00

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well 001H
Company:	Breitburn Operating LP	TVD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Project:	Lea County, NM	MD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Site:	MNR 20 State	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)	
9,000.00	89.14	179.35	6,741.48	-2,503.22	-112.47	2,504.38	0.00	0.00	0.00	
9,100.00	89.14	179.35	6,742.99	-2,603.20	-111.33	2,604.34	0.00	0.00	0.00	
9,200.00	89.14	179.35	6,744.49	-2,703.18	-110.20	2,704.30	0.00	0.00	0.00	
9,300.00	89.14	179.35	6,746.00	-2,803.17	-109.06	2,804.27	0.00	0.00	0.00	
9,400.00	89.14	179.35	6,747.50	-2,903.15	-107.92	2,904.23	0.00	0.00	0.00	
9,500.00	89.14	179.35	6,749.01	-3,003.13	-106.78	3,004.19	0.00	0.00	0.00	
9,600.00	89.14	179.35	6,750.52	-3,103.11	-105.64	3,104.15	0.00	0.00	0.00	
9,700.00	89.14	179.35	6,752.02	-3,203.09	-104.50	3,204.11	0.00	0.00	0.00	
9,800.00	89.14	179.35	6,753.53	-3,303.08	-103.37	3,304.07	0.00	0.00	0.00	
9,900.00	89.14	179.35	6,755.04	-3,403.06	-102.23	3,404.03	0.00	0.00	0.00	
10,000.00	89.14	179.35	6,756.54	-3,503.04	-101.09	3,504.00	0.00	0.00	0.00	
10,100.00	89.14	179.35	6,758.05	-3,603.02	-99.95	3,603.96	0.00	0.00	0.00	
10,200.00	89.14	179.35	6,759.55	-3,703.00	-98.81	3,703.92	0.00	0.00	0.00	
10,300.00	89.14	179.35	6,761.06	-3,802.99	-97.67	3,803.88	0.00	0.00	0.00	
10,400.00	89.14	179.35	6,762.57	-3,902.97	-96.54	3,903.84	0.00	0.00	0.00	
10,500.00	89.14	179.35	6,764.07	-4,002.95	-95.40	4,003.80	0.00	0.00	0.00	
10,600.00	89.14	179.35	6,765.58	-4,102.93	-94.26	4,103.77	0.00	0.00	0.00	
10,700.00	89.14	179.35	6,767.09	-4,202.92	-93.12	4,203.73	0.00	0.00	0.00	
10,800.00	89.14	179.35	6,768.59	-4,302.90	-91.98	4,303.69	0.00	0.00	0.00	
10,900.00	89.14	179.35	6,770.10	-4,402.88	-90.84	4,403.65	0.00	0.00	0.00	
11,000.00	89.14	179.35	6,771.60	-4,502.86	-89.71	4,503.61	0.00	0.00	0.00	
11,100.00	89.14	179.35	6,773.11	-4,602.84	-88.57	4,603.57	0.00	0.00	0.00	
11,200.00	89.14	179.35	6,774.62	-4,702.83	-87.43	4,703.53	0.00	0.00	0.00	
11,300.00	89.14	179.35	6,776.12	-4,802.81	-86.29	4,803.50	0.00	0.00	0.00	
11,400.00	89.14	179.35	6,777.63	-4,902.79	-85.15	4,903.46	0.00	0.00	0.00	
11,500.00	89.14	179.35	6,779.13	-5,002.77	-84.01	5,003.42	0.00	0.00	0.00	
11,600.00	89.14	179.35	6,780.64	-5,102.76	-82.88	5,103.38	0.00	0.00	0.00	
11,700.00	89.14	179.35	6,782.15	-5,202.74	-81.74	5,203.34	0.00	0.00	0.00	
11,800.00	89.14	179.35	6,783.65	-5,302.72	-80.60	5,303.30	0.00	0.00	0.00	
11,900.00	89.14	179.35	6,785.16	-5,402.70	-79.46	5,403.27	0.00	0.00	0.00	
12,000.00	89.14	179.35	6,786.67	-5,502.68	-78.32	5,503.23	0.00	0.00	0.00	
12,100.00	89.14	179.35	6,788.17	-5,602.67	-77.18	5,603.19	0.00	0.00	0.00	
12,200.00	89.14	179.35	6,789.68	-5,702.65	-76.05	5,703.15	0.00	0.00	0.00	
12,300.00	89.14	179.35	6,791.18	-5,802.63	-74.91	5,803.11	0.00	0.00	0.00	
12,400.00	89.14	179.35	6,792.69	-5,902.61	-73.77	5,903.07	0.00	0.00	0.00	
12,496.70	89.14	179.35	6,794.15	-5,999.30	-72.67	5,999.74	0.00	0.00	0.00	
LTP (MNR 20 State 001H)										
12,500.00	89.14	179.35	6,794.20	-6,002.59	-72.63	6,003.03	0.00	0.00	0.00	
12,546.71	89.14	179.35	6,794.90	-6,049.30	-72.10	6,049.73	0.00	0.00	0.00	
PBHL (MNR 20 State 001H)										

Planning Report

Database:	LEAM Multi_User Db	Local Co-ordinate Reference:	Well 001H
Company:	Breitburn Operating LP	TVD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Project:	Lea County, NM	MD Reference:	GE 3387.9' + KB 18' @ 3405.90usft (TBD)
Site:	MNR 20 State	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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
SHL (MNR 20 State 001 - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	501,012.10	852,548.00	32° 22' 20.014 N	103° 11' 29.248 W
FTP (MNR 20 State 001 - plan misses target center by 0.03usft at 7036.33usft MD (6711.90 TVD, -539.90 N, -134.83 E) - Point	0.00	0.00	6,711.90	-539.90	-134.80	500,472.20	852,413.20	32° 22' 14.687 N	103° 11' 30.886 W
LTP (MNR 20 State 001I - plan misses target center by 0.03usft at 12496.70usft MD (6794.15 TVD, -5999.30 N, -72.67 E) - Point	0.00	0.00	6,794.15	-5,999.30	-72.70	495,012.80	852,475.30	32° 21' 20.664 N	103° 11' 30.841 W
PBHL (MNR 20 State 00 - plan hits target center - Rectangle (sides W60.00 H5,510.39 D20.00)	0.86	179.35	6,794.90	-6,049.30	-72.10	494,962.80	852,475.90	32° 21' 20.169 N	103° 11' 30.840 W

MNR 20 State 1H Proposed WBD

Spud Date: TBD
 Rig Release: TBD
 GL: 3,392'
 KB: 3,410' (est.)

Breitbart Operating. LP
 Lea County, NM.
 Drinkard Horizontal Well

CONDUCTOR PIPE:

24" Hole:
 20" landed at +/- 80' below GL
 TOC: Surface

SURFACE:

17-¹/₂" Hole: +/- 1,180' MD/TVD
 13-³/₈", 54.5 ppf, J-55, BT&C: +/- 1,180' MD/TVD
 TOC: Surface

Directional Nudge: +/- 2,000' MD/TVD
 2.0°/100' Build to 5°
 Hold to 3,644' MD
 2.0°/100' Drop to 0°

9-⁵/₈" DV Tool: +/- 3,000' MD/TVD

INTERMEDIATE:

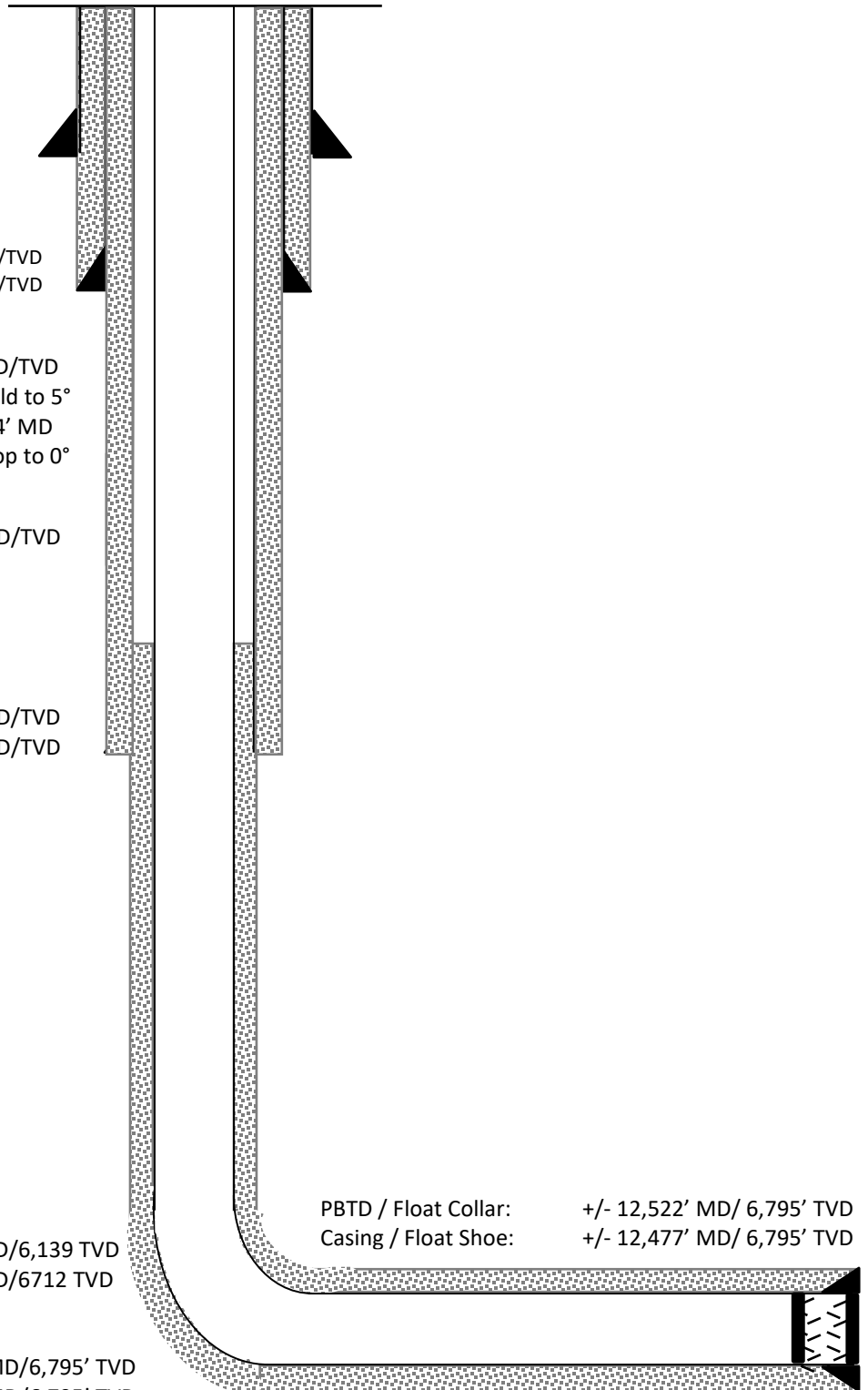
12-¹/₄" Hole: +/- 6,100' MD/TVD
 9-⁵/₈", 40 ppf, J-55, LTC: +/- 6,100' MD/TVD
 TOC: Surface

KOP: +/- 6,144' MD/6,139 TVD
 Landing Point: +/- 7,036' MD/6,712 TVD

PRODUCTION:

8-³/₄" Hole: +/- 12,547' MD/6,795' TVD
 5-¹/₂", 23 ppf, L-80, LTC: +/- 12,522' MD/6,795' TVD
 ETOC: +/- 5,100' MD/TVD

PBTD / Float Collar: +/- 12,522' MD/ 6,795' TVD
 Casing / Float Shoe: +/- 12,477' MD/ 6,795' TVD



BREITBURN OPERATING, LP

MNR 20 State 001H Facility – 3/29/21

