

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.
Carlsbad Field Office
OCD Artesia5. Lease Serial No.
NMNM15291

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
HUBER FEDERAL 10H9. API Well No.
30-015-44848-00-X110. Field and Pool or Exploratory Area
SEVEN RIVERS11. County or Parish, State
Glorieta/yes 97565
EDDY COUNTY, NM.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Contact: LELAN ANDERS
PERCUSSION PETRO OPERATING LLC
Email: leland@percussionpetroleum.com

3a. Address

919 MILAM STREET SUITE 2475
HOUSTON, TX 77002

3b. Phone No. (include area code)

Ph: 713-429-1291

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 34 T19S R25E SESW 474FSL 2535FWL
32.611031 N Lat, 104.473000 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

SHL has moved 40' east from 474' FSL & 2535' FWL to ~~474' FSL & 2575' FWL~~. No change in pad size.BHL has moved 334' east from 20' FSL & 2571' FWL to ~~20' FSL & 2375' FWL~~. (See attached C102.)

TVD has changed from 2571' to 2623'. ✓

MD has changed from 8035' to 8112'. (See attached well bore views & plans.)

NM OIL CONSERVATION

ARTESIA DISTRICT

Changing long string due to new frac designs and ESP limits. (See attached Casing Specs.)

JUN 27 2018

Long string cement will increase accordingly (1%)

GC 6-28-18
Accepted for record - NMOC

RECEIVED

Eng Okay 6/19/18 CWalls

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #424361 verified by the BLM Well Information System

For PERCUSSION PETRO OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by PRISCILLA PEREZ on 06/18/2018 (18PP2014SE)

Name (Printed/Typed) BRIAN WOOD

Title CONSULTANT

Signature (Electronic Submission)

Date 06/15/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****RWP 7-5-18
7-13-18

Additional data for EC transaction #424361 that would not fit on the form

32. Additional remarks, continued

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 (505) 748-1233 Fax: (505) 748-0720

DISTRICT III
1000 Rio Brazos Rd., Atec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1225 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

NM OIL CONSERVATION
ARTESIA DISTRICT

Form C-102

Revised August 1, 2011

JUN 27 2018

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1226 South St. Francis Dr.
Santa Fe, New Mexico 87505

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-44848	Pool Code 97565	Pool Name N. SEVEN RIVERS; GLORIETA-YESO
Property Code 317243	Property Name HUBER FEDERAL	Well Number 10H
OGRID No. 371755	Operator Name PERCUSSION PETROLEUM OPERATING, LLC	Elevation 3506'

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	34	19 S	25 E		474	SOUTH	2575	WEST	EDDY

Bottom Hole Location If Different From Surface

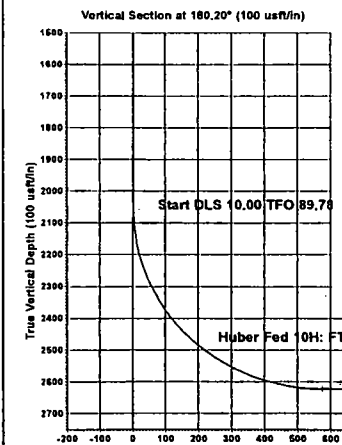
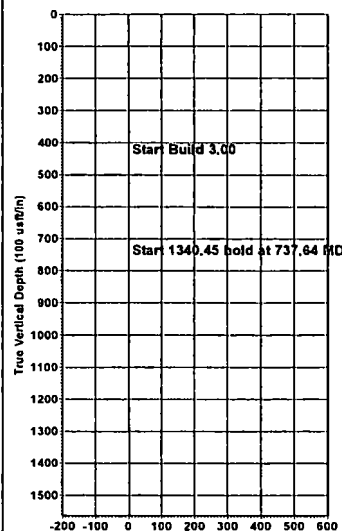
UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/South line	FEET from the	East/West line	County
N	3	20 S	25 E		20	SOUTH	2375	EAST	EDDY

Dedicated Acres 160.57	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE LOCATION Lat - N 32.811034° Long - W 104.472876° NMSPCE- N 586053.0 E 498370.2 (NAD-83) FIRST TAKE POINT 100' FNL & 2375' FEL Lat - N 32.609453° Long - W 104.471769° NMSPCE- N 585477.9 E 498710.1 (NAD-83) LAST TAKE POINT 330' FSL & 2375' FEL Lat - N 32.596192° Long - W 104.471806° NMSPCE- N 580653.5 E 498693.1 (NAD-83) PROPOSED BOTTOM HOLE LOCATION Lat - N 32.595342° Long - W 104.471806° NMSPCE- N 580343.4 E 498691.9 (NAD-83)		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. 6-15-18 Signature _____ Date _____ Brian Wood Printed Name _____ brian@permitswest.com Email 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. Date Surveyed APRIL 20, 2017 Signature & Seal of Professional Surveyor 7977 Certificate No. 7977 Basic Survey 7977 0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' WO Num.: 32871
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Ref 7-12-18



Azimuths to Grid North
True North: 0.07°
Magnetic North: 7.36°

Magnetic Field
Strength: 47963.3snT
Dip Angle: 60.26°
Date: 6/28/2018
Model: IGRF2015

TOTAL CORRECTION
Magnetic North is 7.36° East of Grid North (Magnetic Convergence)
To convert a Magnetic Direction to a Grid Direction, Add 7.36°

WELL DETAILS: 10H

RKB=17' @ 3523.00usft (Silver Oak 1)

3506.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	586053.00	498370.20	32.611034	-104.472876

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	421.00	0.00	0.00	421.00	0.00	0.00	0.00	0.00
3	737.64	9.50	90.42	736.19	-0.19	26.19	3.00	0.10
4	2078.09	9.50	90.42	2058.26	-1.82	247.40	0.00	0.95
5	2977.72	90.00	180.20	2623.00	-576.10	339.90	10.00	573.91
6	8112.25	90.00	180.20	2623.00	-5709.60	321.98	0.00	5708.44

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

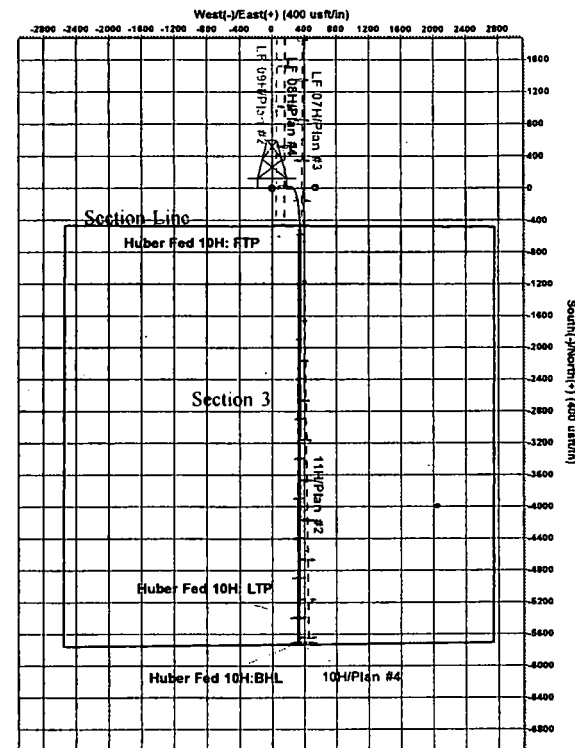
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Huber Fed 10H: FTP	2623.00	-576.10	339.90	586477.80	498710.10	Point
Huber Fed 10H: LTP	2623.00	-5399.50	322.90	580653.50	498693.10	Point
Huber Fed 10H:BHL	2623.00	-5709.60	321.70	580343.40	498691.90	Rectangle (Sides: 1.0,00 W30.00)



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Huber Fed
Well: 10H
Wellbore: OH
Rig: Silver Oak 1
Design: Plan #4 / 10:55, June 13 2018

PROJECT DETAILS: Eddy County, NM
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Disclaimer:
All Plan Details, boundary lines and offset well location/survey data is provided by customer and subject to customer approval.



Huber Fed 10H: LTP 10H/Plan #4
Huber Fed 10H:BHL TD at 8112.25
Plan: Plan #4 (10H/OH) Silver Oak 1
Created By: Daniel Benn Date: 10:55, June 13 2018



Wellbenders Standard Plan With Toolface



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Huber Fed
Well: 10H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well 10H
TVD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
MD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Project Eddy County, NM

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Huber Fed

Site Position:		Northing:	586,082.90 usft	Latitude:	32.611121
From:	Map	Easting:	499,887.10 usft	Longitude:	-104.467950
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-0.07 °

Well 10H

Well Position	+N/-S	0.00 usft	Northing:	586,053.00 usft	Latitude:	32.611034
	+E/-W	0.00 usft	Easting:	498,370.20 usft	Longitude:	-104.472876
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,506.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/28/2018	7.29	60.26	47,963.30792940

Design Plan #4

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	180.20

Survey Tool Program Date 6/13/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	8,112.25	Plan #4 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



Wellbenders Standard Plan With Toolface



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Huber Fed
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Design: Plan #4

Local Co-ordinate Reference: Well 10H
TVD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
MD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	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	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
421.00	0.00	0.00	421.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	2.37	90.42	499.98	-0.01	1.63	0.01	3.00	3.00	0.00	90.42
600.00	5.37	90.42	599.74	-0.06	8.38	0.03	3.00	3.00	0.00	0.00
700.00	8.37	90.42	699.01	-0.15	20.34	0.08	3.00	3.00	0.00	0.00
737.64	9.50	90.42	736.19	-0.19	26.19	0.10	3.00	3.00	0.00	0.00
800.00	9.50	90.42	797.70	-0.27	36.48	0.14	0.00	0.00	0.00	0.00
900.00	9.50	90.42	896.33	-0.39	52.98	0.20	0.00	0.00	0.00	0.00
1,000.00	9.50	90.42	994.95	-0.51	69.49	0.27	0.00	0.00	0.00	0.00
1,100.00	9.50	90.42	1,093.58	-0.63	85.99	0.33	0.00	0.00	0.00	0.00
1,200.00	9.50	90.42	1,192.21	-0.75	102.49	0.40	0.00	0.00	0.00	0.00
1,300.00	9.50	90.42	1,290.84	-0.87	118.99	0.46	0.00	0.00	0.00	0.00
1,400.00	9.50	90.42	1,389.47	-1.00	135.50	0.52	0.00	0.00	0.00	0.00
1,500.00	9.50	90.42	1,488.10	-1.12	152.00	0.59	0.00	0.00	0.00	0.00
1,600.00	9.50	90.42	1,586.73	-1.24	168.50	0.65	0.00	0.00	0.00	0.00
1,700.00	9.50	90.42	1,685.36	-1.36	185.01	0.71	0.00	0.00	0.00	0.00
1,800.00	9.50	90.42	1,783.98	-1.48	201.51	0.78	0.00	0.00	0.00	0.00
1,900.00	9.50	90.42	1,882.61	-1.60	218.01	0.84	0.00	0.00	0.00	0.00
2,000.00	9.50	90.42	1,981.24	-1.72	234.52	0.90	0.00	0.00	0.00	0.00
2,078.09	9.50	90.42	2,058.26	-1.82	247.40	0.95	0.00	0.00	0.00	0.00
2,100.00	9.75	103.46	2,079.86	-2.26	251.02	1.39	10.00	1.17	59.52	89.78
2,150.00	11.92	127.74	2,129.00	-6.41	259.22	5.51	10.00	4.32	48.56	76.92
2,200.00	15.44	142.91	2,177.59	-14.89	267.32	13.95	10.00	7.05	30.34	53.06



Wellbenders

Standard Plan With Toolface



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Huber Fed
Well: 10H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well 10H
TVD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
MD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2,250.00	19.60	152.18	2,225.26	-27.62	275.26	26.66	10.00	8.33	18.53	38.31
2,300.00	24.08	158.21	2,271.67	-44.52	282.96	43.53	10.00	8.95	12.06	29.47
2,350.00	28.72	162.42	2,316.45	-65.45	290.38	64.44	10.00	9.28	8.42	23.86
2,400.00	33.45	165.53	2,359.26	-90.26	297.46	89.23	10.00	9.47	6.23	20.09
2,450.00	38.25	167.95	2,399.78	-118.76	304.14	117.70	10.00	9.59	4.83	17.42
2,500.00	43.09	169.89	2,437.69	-150.73	310.37	149.65	10.00	9.67	3.90	15.46
2,550.00	47.95	171.52	2,472.72	-185.93	316.11	184.82	10.00	9.73	3.25	13.98
2,600.00	52.83	172.91	2,504.58	-224.08	321.31	222.96	10.00	9.77	2.79	12.84
2,650.00	57.73	174.14	2,533.05	-264.91	325.93	263.77	10.00	9.80	2.45	11.95
2,700.00	62.64	175.23	2,557.90	-308.09	329.94	306.94	10.00	9.82	2.19	11.26
2,750.00	67.56	176.24	2,578.95	-353.30	333.30	352.14	10.00	9.83	2.01	10.71
2,800.00	72.48	177.17	2,596.03	-400.20	336.00	399.02	10.00	9.84	1.87	10.29
2,850.00	77.41	178.06	2,609.02	-448.43	338.00	447.24	10.00	9.85	1.77	9.97
2,900.00	82.33	178.91	2,617.81	-497.61	339.30	496.43	10.00	9.86	1.70	9.74
2,950.00	87.27	179.74	2,622.34	-547.39	339.89	546.20	10.00	9.86	1.67	9.59
2,977.72	90.00	180.20	2,623.00	-575.10	339.90	573.91	10.00	9.86	1.65	9.51
3,000.00	90.00	180.20	2,623.00	-597.38	339.82	596.19	0.00	0.00	0.00	0.00
3,100.00	90.00	180.20	2,623.00	-697.38	339.47	696.19	0.00	0.00	0.00	0.00
3,200.00	90.00	180.20	2,623.00	-797.38	339.12	796.19	0.00	0.00	0.00	0.00
3,300.00	90.00	180.20	2,623.00	-897.38	338.78	896.19	0.00	0.00	0.00	0.00
3,400.00	90.00	180.20	2,623.00	-997.38	338.43	996.19	0.00	0.00	0.00	0.00
3,500.00	90.00	180.20	2,623.00	-1,097.37	338.08	1,096.19	0.00	0.00	0.00	0.00
3,600.00	90.00	180.20	2,623.00	-1,197.37	337.73	1,196.19	0.00	0.00	0.00	0.00
3,700.00	90.00	180.20	2,623.00	-1,297.37	337.38	1,296.19	0.00	0.00	0.00	0.00
3,800.00	90.00	180.20	2,623.00	-1,397.37	337.03	1,396.19	0.00	0.00	0.00	0.00
3,900.00	90.00	180.20	2,623.00	-1,497.37	336.68	1,496.19	0.00	0.00	0.00	0.00
4,000.00	90.00	180.20	2,623.00	-1,597.37	336.33	1,596.19	0.00	0.00	0.00	0.00



Wellbenders

Standard Plan With Toolface



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Huber Fed
Well: 10H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well 10H
TVD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
MD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
4,100.00	90.00	180.20	2,623.00	-1,697.37	335.98	1,696.19	0.00	0.00	0.00	0.00
4,200.00	90.00	180.20	2,623.00	-1,797.37	335.63	1,796.19	0.00	0.00	0.00	0.00
4,300.00	90.00	180.20	2,623.00	-1,897.37	335.28	1,896.19	0.00	0.00	0.00	0.00
4,400.00	90.00	180.20	2,623.00	-1,997.37	334.94	1,996.19	0.00	0.00	0.00	0.00
4,500.00	90.00	180.20	2,623.00	-2,097.37	334.59	2,096.19	0.00	0.00	0.00	0.00
4,600.00	90.00	180.20	2,623.00	-2,197.37	334.24	2,196.19	0.00	0.00	0.00	0.00
4,700.00	90.00	180.20	2,623.00	-2,297.37	333.89	2,296.19	0.00	0.00	0.00	0.00
4,800.00	90.00	180.20	2,623.00	-2,397.37	333.54	2,396.19	0.00	0.00	0.00	0.00
4,900.00	90.00	180.20	2,623.00	-2,497.37	333.19	2,496.19	0.00	0.00	0.00	0.00
5,000.00	90.00	180.20	2,623.00	-2,597.37	332.84	2,596.19	0.00	0.00	0.00	0.00
5,100.00	90.00	180.20	2,623.00	-2,697.36	332.49	2,696.19	0.00	0.00	0.00	0.00
5,200.00	90.00	180.20	2,623.00	-2,797.36	332.14	2,796.19	0.00	0.00	0.00	0.00
5,300.00	90.00	180.20	2,623.00	-2,897.36	331.79	2,896.19	0.00	0.00	0.00	0.00
5,400.00	90.00	180.20	2,623.00	-2,997.36	331.44	2,996.19	0.00	0.00	0.00	0.00
5,500.00	90.00	180.20	2,623.00	-3,097.36	331.10	3,096.19	0.00	0.00	0.00	0.00
5,600.00	90.00	180.20	2,623.00	-3,197.36	330.75	3,196.19	0.00	0.00	0.00	0.00
5,700.00	90.00	180.20	2,623.00	-3,297.36	330.40	3,296.19	0.00	0.00	0.00	0.00
5,800.00	90.00	180.20	2,623.00	-3,397.36	330.05	3,396.19	0.00	0.00	0.00	0.00
5,900.00	90.00	180.20	2,623.00	-3,497.36	329.70	3,496.19	0.00	0.00	0.00	0.00
6,000.00	90.00	180.20	2,623.00	-3,597.36	329.35	3,596.19	0.00	0.00	0.00	0.00
6,100.00	90.00	180.20	2,623.00	-3,697.36	329.00	3,696.19	0.00	0.00	0.00	0.00
6,200.00	90.00	180.20	2,623.00	-3,797.36	328.65	3,796.19	0.00	0.00	0.00	0.00
6,300.00	90.00	180.20	2,623.00	-3,897.36	328.30	3,896.19	0.00	0.00	0.00	0.00
6,400.00	90.00	180.20	2,623.00	-3,997.36	327.95	3,996.19	0.00	0.00	0.00	0.00
6,500.00	90.00	180.20	2,623.00	-4,097.36	327.60	4,096.19	0.00	0.00	0.00	0.00
6,600.00	90.00	180.20	2,623.00	-4,197.36	327.26	4,196.19	0.00	0.00	0.00	0.00
6,700.00	90.00	180.20	2,623.00	-4,297.35	326.91	4,296.19	0.00	0.00	0.00	0.00



Wellbenders

Standard Plan With Toolface



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Huber Fed
Well: 10H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well 10H
TVD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
MD Reference: RKB=17' @ 3523.00usft (Silver Oak 1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
6,800.00	90.00	180.20	2,623.00	-4,397.35	326.56	4,396.19	0.00	0.00	0.00	0.00
6,900.00	90.00	180.20	2,623.00	-4,497.35	326.21	4,496.19	0.00	0.00	0.00	0.00
7,000.00	90.00	180.20	2,623.00	-4,597.35	325.86	4,596.19	0.00	0.00	0.00	0.00
7,100.00	90.00	180.20	2,623.00	-4,697.35	325.51	4,696.19	0.00	0.00	0.00	0.00
7,200.00	90.00	180.20	2,623.00	-4,797.35	325.16	4,796.19	0.00	0.00	0.00	0.00
7,300.00	90.00	180.20	2,623.00	-4,897.35	324.81	4,896.19	0.00	0.00	0.00	0.00
7,400.00	90.00	180.20	2,623.00	-4,997.35	324.46	4,996.19	0.00	0.00	0.00	0.00
7,500.00	90.00	180.20	2,623.00	-5,097.35	324.11	5,096.19	0.00	0.00	0.00	0.00
7,600.00	90.00	180.20	2,623.00	-5,197.35	323.77	5,196.19	0.00	0.00	0.00	0.00
7,700.00	90.00	180.20	2,623.00	-5,297.35	323.42	5,296.19	0.00	0.00	0.00	0.00
7,800.00	90.00	180.20	2,623.00	-5,397.35	323.07	5,396.19	0.00	0.00	0.00	0.00
7,900.00	90.00	180.20	2,623.00	-5,497.35	322.72	5,496.19	0.00	0.00	0.00	0.00
8,000.00	90.00	180.20	2,623.00	-5,597.35	322.37	5,596.19	0.00	0.00	0.00	0.00
8,100.00	90.00	180.20	2,623.00	-5,697.35	322.02	5,696.19	0.00	0.00	0.00	0.00
8,112.25	90.00	180.20	2,623.00	-5,709.60	321.98	5,708.44	0.00	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
12.25"	0' - 1271'	0' - 1271'	Surface 9.625"	36	J-55	STC	1.125	1.125	1.8
8.75"	0' - 2375'	0' - 2249'	1st Product. 7"	32	L-80	BTC	1.125	1.125	1.8
8.75"	2375' - 8112'	2249' - 2623'	2nd Product. 5.5"	17	L-80	BTC	1.125	1.125	1.8