

NOV 27 2019

Form C-102

Revised August 1, 2011

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) 748-1235 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV

1226 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3460 Fax: (505) 478-3462State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

RECEIVED

Submit one copy to appropriate
District OfficeAS-brilled
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45796	Pool Code 50270	Pool Name Penasco Draw; SA-Yeso (Assoc.)
Property Code 325892	Property Name ROSE	Well Number 4H
OGRID No. 328947	Operator Name SPUR ENERGY PARTNERS, LLC	Elevation 3379'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/South line	FEET from the	East/West line	County
LOT 1	7	19 S	26 E		1388	NORTH	986	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
D	12	19 S	25 E		1292	NORTH	43	WEST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

BOTTOM HOLE LOCATION

Lat - N 32.678859°
Long - W 104.446951°
NMSPCE- N 610718.9
E 506379.4
(NAD-83)

LAST TAKE POINT

1293' FNL & 100' FWL
Lat - N 32.678856°
Long - W 104.446767°
NMSPCE- N 610717.6
E 506436.0
(NAD-83)

FIRST TAKE POINT

1272' FNL & 100' FWL
Lat - N 32.678850°
Long - W 104.429980°
NMSPCE- N 610710.3
E 511600.9
(NAD-83)

SURFACE LOCATION

Lat - N 32.678564°
Long - W 104.426449°
NMSPCE- N 610605.1
E 512687.3
(NAD-83)

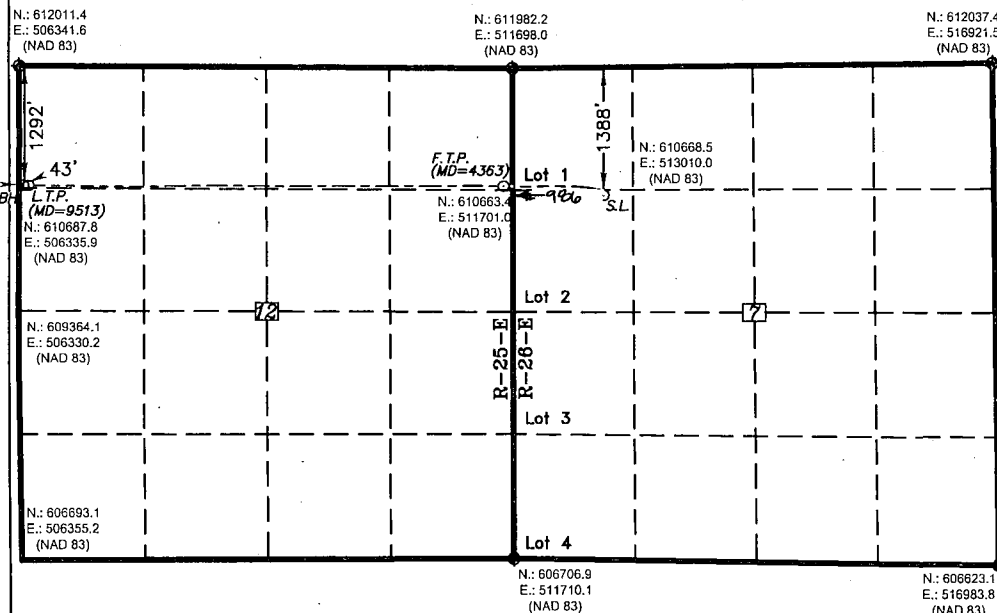
OPERATOR CERTIFICATION

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.

Sarah Chapman 11/26/19
Signature DateSarah Chapman
Printed Nameschapman@spurep11.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
Signature of Professional SurveyorProfessional Surveyor
7977Certificate No. 7977
BASIN SURVEY0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 34362

Intent ☐ As Drilled ☒

API #
30-015-45796

Operator Name: SPUR ENERGY PARTNERS LLC	Property Name: ROSE	Well Number 4H
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Kick Off Point (KOP)

UL 1	Section 7	Township 19S	Range 25E ^{26E}	Lot	Feet 1381	From N/S NORTH	Feet 982	From E/W WEST	County EDDY
Latitude 32.678584					Longitude -104.426436			NAD NAD83	

First Take Point (FTP)

UL A	Section 12	Township 19S	Range 25E	Lot	Feet 1272	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.678850					Longitude -104.429980			NAD NAD83	

Last Take Point (LTP)

UL D	Section 12	Township 19S	Range 25E	Lot	Feet 1293	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.678856					Longitude -104.446767			NAD NAD83	

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☒

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

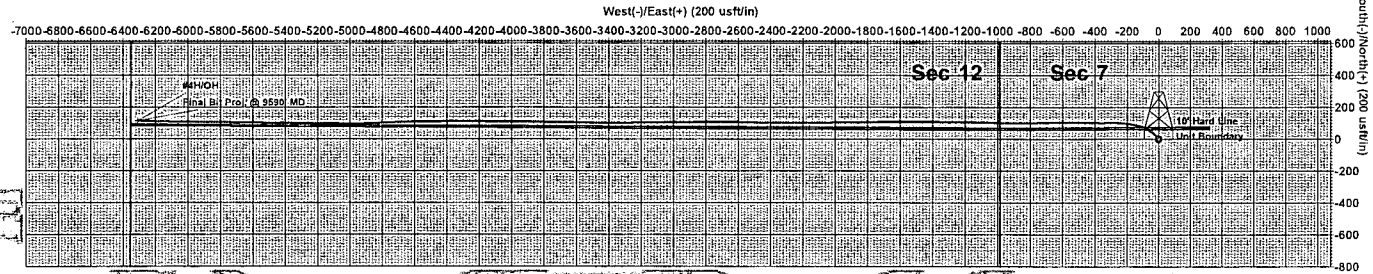
API #
30-015-45113

Operator Name: SPUR ENERGY PARTNERS LLC	Property Name: ROSE	Well Number 2H
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KZ 06/29/2018



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Rose
Well: #4H
Wellbore: OH
Rig: Akita 20
Design: OH / 10:06, May 31 2019



DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Final Bit Proj. @ 9590' MD	3547.74	113.77	-6307.88	610718.87	506379.42	32.678559	-104.446951

TOTAL CORRECTION
To convert a Magnetic Direction to a Grid Direction, Add 7.249°

WELL DETAILS: #4H

RKB=16' @ 3395.00usft (Akita 20)

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	610605.10	512887.30	32.678563	-104.425449

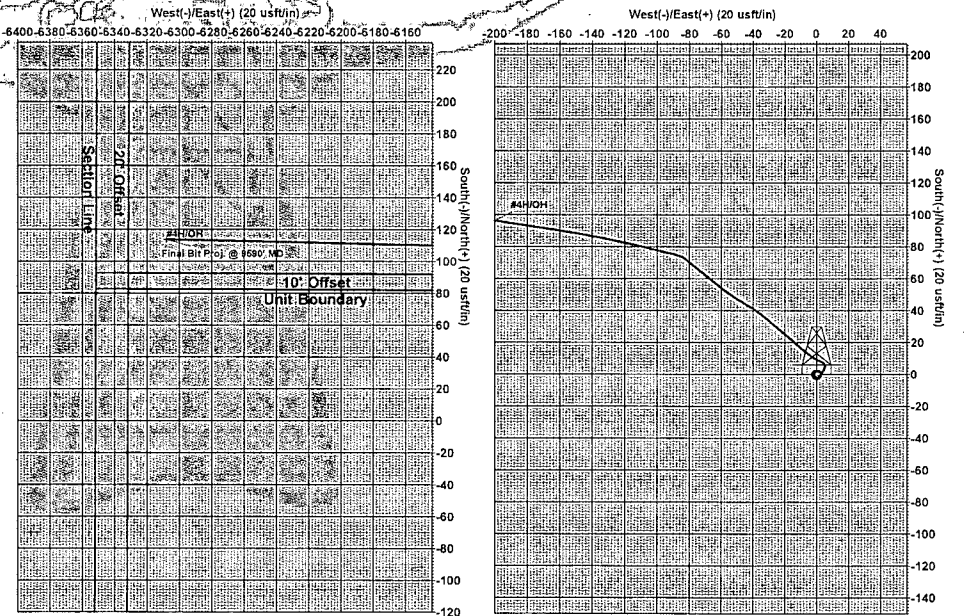
ANNOTATION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
9590.00	85.41	271.32	3647.74	113.77	-6307.88	6308.33	6350.27	Final Station Closure Distance= 6308.90 / Direction= 271.03
9590.00	85.41	271.32	3647.74	113.77	-6307.88	6308.33	6350.27	Projection to Bit: 9590.00' MD/ 3647.74' TVD
9590.00	85.41	271.32	3647.74	113.77	-6307.88	6308.33	6350.27	TD: Latitude = 32.678559 / Longitude = -104.446951
9590.00	85.41	271.32	3647.74	113.77	-6307.88	6308.33	6350.27	TD: Y= 610718.87 / X= 506379.42



Azimuths to Grid North
True North: 0.05°
Magnetic North: 7.25°
Magnetic Field
Strength: 47933.0nT
Dip Angle: 60.32°
Date: 3/6/2019
Model: IGRF-2015

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



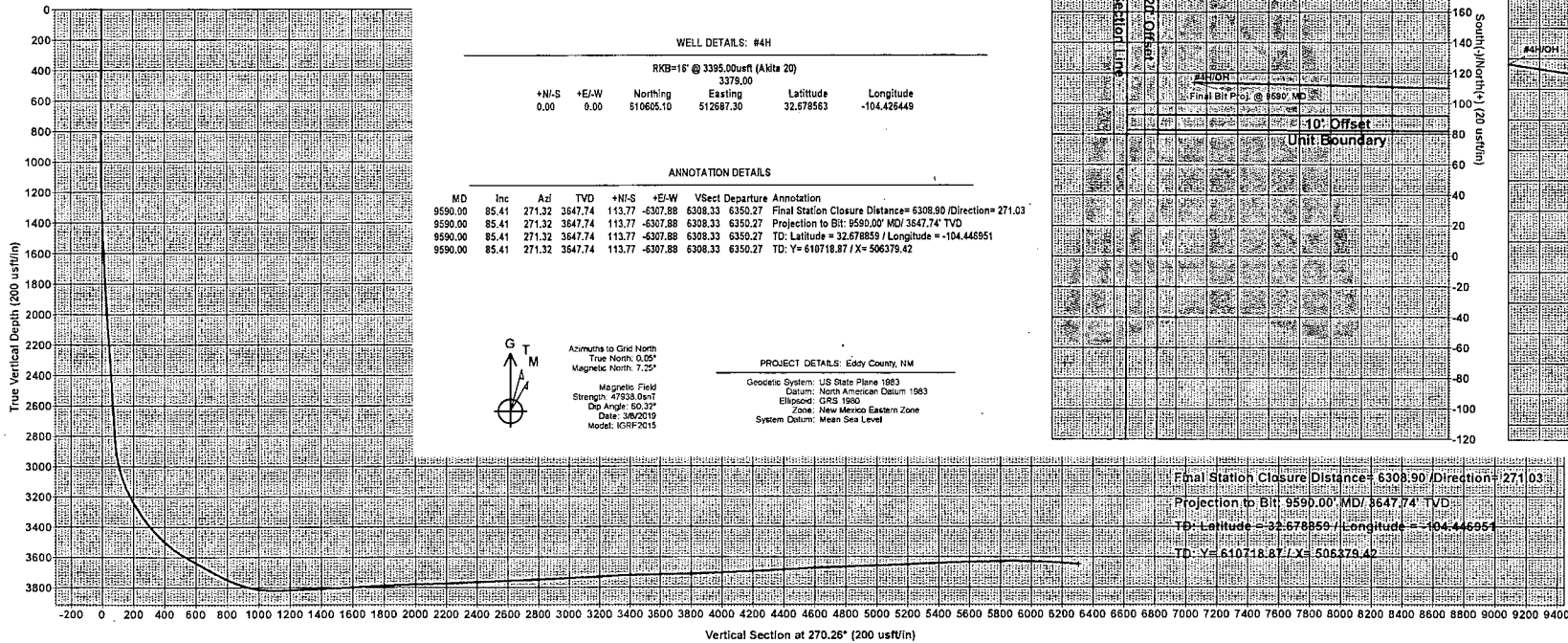
Final Station Closure Distance= 6308.90 / Direction= 271.03
Projection to Bit: 9590.00' MD/ 3647.74' TVD
TD: Latitude = 32.678559 / Longitude = -104.446951
TD: Y= 610718.87 / X= 506379.42



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

Design: OH (#4H/OH) Akita 20

Created By: Derek Stephens Date: 10:06, May 31 2019





PERCUSSION
PETROLEUM
LLC

Percussion Petroleum, LLC

Eddy County, NM

Rose

#4H

OH

Design: OH

End Of Well Report

31 May, 2019

A Certified Directional Survey should be
submitted as required by NMOCD Rule
19.15.16.14 NMAC



Wellbenders

End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Project	Eddy County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Rose				
Site Position:		Northing:	611,332.70 usft	Latitude:	32.680563
From:	Map	Easting:	512,404.20 usft	Longitude:	-104.427371
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-0.051 °

Well	#4H					
Well Position	+N/-S	0.00 usft	Northing:	610,605.10 usft	Latitude:	32.678563
	+E/-W	0.00 usft	Easting:	512,687.30 usft	Longitude:	-104.426449
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,379.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/8/2019	7.199	60.320	47,937.97301984

Design					OH
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	270.26	

Survey Program		Date 5/31/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
134.00	9,590.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #4H
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Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
134.00	0.09	126.43	134.00	-0.06	0.08	-0.08	134.00	126.43	0.07	
225.00	0.26	359.69	225.00	0.10	0.14	-0.14	91.00	18.97	0.35	
315.00	0.84	74.84	315.00	0.48	0.78	-0.77	90.00	-59.35	0.90	
406.00	0.70	147.00	405.99	0.19	1.72	-1.72	91.00	107.13	1.00	
497.00	0.57	59.19	496.99	-0.05	2.41	-2.42	91.00	108.72	0.97	
588.00	0.13	43.46	587.98	0.26	2.87	-2.87	91.00	56.29	0.49	
679.00	0.75	34.76	678.98	0.82	3.29	-3.28	91.00	36.04	0.68	
770.00	0.97	25.62	769.97	2.01	3.96	-3.95	91.00	29.60	0.28	
861.00	0.97	22.37	860.96	3.41	4.58	-4.57	91.00	24.00	0.06	
951.00	0.88	24.04	950.95	4.75	5.16	-5.13	90.00	23.16	0.10	
1,043.00	0.88	348.00	1,042.94	6.09	5.30	-5.27	92.00	6.02	0.59	
1,134.00	1.54	304.67	1,133.92	7.46	4.15	-4.11	91.00	320.15	1.19	
1,186.00	1.85	291.49	1,185.89	8.17	2.79	-2.75	52.00	297.47	0.95	
1,268.00	1.89	295.71	1,267.85	9.24	0.34	-0.30	82.00	293.62	0.17	
1,362.00	2.46	304.06	1,361.78	11.04	-2.73	2.78	94.00	300.43	0.69	
1,456.00	3.08	310.12	1,455.67	13.80	-6.33	6.39	94.00	307.43	0.73	
1,551.00	3.08	309.86	1,550.53	17.08	-10.24	10.32	95.00	309.99	0.01	
1,645.00	2.99	311.70	1,644.40	20.33	-14.01	14.10	94.00	310.77	0.14	
1,739.00	3.60	310.03	1,738.25	23.86	-18.10	18.21	94.00	310.79	0.66	
1,833.00	4.09	311.09	1,832.04	27.96	-22.89	23.01	94.00	310.59	0.53	
1,927.00	4.18	309.68	1,925.79	32.35	-28.05	28.20	94.00	310.38	0.14	
2,022.00	4.13	310.47	2,020.54	36.78	-33.32	33.48	95.00	310.07	0.08	
2,117.00	4.48	301.59	2,115.27	40.95	-39.08	39.27	95.00	305.85	0.79	
2,211.00	4.66	299.40	2,208.98	44.74	-45.53	45.74	94.00	300.47	0.27	
2,305.00	4.31	303.35	2,302.69	48.56	-51.81	52.03	94.00	301.30	0.50	
2,400.00	4.31	305.81	2,397.42	52.61	-57.69	57.93	95.00	304.58	0.19	



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
2,494.00	4.35	308.36	2,491.15	56.89	-63.35	63.61	94.00	307.09	0.21
2,589.00	4.35	308.54	2,585.88	61.37	-68.99	69.27	95.00	308.45	0.01
2,683.00	4.44	309.77	2,679.60	65.92	-74.58	74.87	94.00	309.16	0.14
2,777.00	4.48	309.77	2,773.32	70.60	-80.19	80.51	94.00	309.77	0.04
2,824.00	4.66	304.41	2,820.17	72.85	-83.18	83.51	47.00	307.04	0.99
2,872.00	5.89	287.80	2,867.97	74.70	-87.13	87.47	48.00	295.13	4.06
2,919.00	8.00	283.31	2,914.62	76.19	-92.61	92.96	47.00	285.22	4.63
2,966.00	10.46	283.67	2,961.01	77.96	-99.94	100.30	47.00	283.51	5.24
3,013.00	13.36	283.31	3,006.99	80.22	-109.37	109.74	47.00	283.47	6.17
3,060.00	16.84	282.61	3,052.36	82.95	-121.31	121.68	47.00	282.92	7.41
3,109.00	20.18	281.03	3,098.82	86.12	-136.53	136.92	49.00	281.75	6.89
3,155.00	22.68	279.71	3,141.64	89.13	-153.06	153.47	46.00	280.33	5.53
3,202.00	25.58	278.66	3,184.52	92.19	-172.03	172.45	47.00	279.16	6.24
3,249.00	28.13	278.57	3,226.45	95.37	-193.02	193.45	47.00	278.61	5.43
3,296.00	30.81	277.42	3,267.37	98.58	-215.92	216.36	47.00	277.97	5.83
3,342.00	33.05	274.61	3,306.41	101.11	-240.11	240.56	46.00	275.97	5.84
3,389.00	35.56	271.36	3,345.23	102.46	-266.55	267.01	47.00	272.93	6.61
3,435.00	37.85	270.22	3,382.11	102.83	-294.04	294.50	46.00	270.77	5.19
3,482.00	40.44	268.99	3,418.56	102.62	-323.71	324.17	47.00	269.59	5.75
3,530.00	43.74	270.31	3,454.17	102.43	-355.87	356.33	48.00	269.67	7.12
3,577.00	46.11	271.01	3,487.45	102.82	-389.06	389.52	47.00	270.67	5.15
3,624.00	49.01	271.36	3,519.16	103.54	-423.73	424.20	47.00	271.19	6.19
3,671.00	52.70	271.62	3,548.83	104.49	-460.16	460.63	47.00	271.49	7.86
3,716.00	55.82	271.36	3,575.11	105.44	-496.67	497.15	45.00	271.49	6.95
3,763.00	58.37	270.04	3,600.64	105.91	-536.13	536.60	47.00	270.69	5.92
3,809.00	59.43	269.69	3,624.40	105.82	-575.51	575.99	46.00	269.86	2.39
3,856.00	60.00	269.43	3,648.10	105.51	-616.10	616.57	47.00	269.56	1.30



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
3,904.00	60.35	268.81	3,671.98	104.87	-657.73	658.20	48.00	269.12	1.34	
3,951.00	61.23	268.28	3,694.91	103.83	-698.74	699.21	47.00	268.54	2.12	
3,998.00	61.49	268.72	3,717.44	102.75	-739.98	740.44	47.00	268.50	0.99	
4,045.00	62.64	268.99	3,739.46	101.92	-781.49	781.95	47.00	268.86	2.50	
4,074.00	64.84	269.34	3,752.29	101.54	-807.50	807.95	29.00	269.17	7.66	
4,121.00	68.00	269.51	3,771.09	101.11	-850.56	851.01	47.00	269.43	6.73	
4,168.00	71.65	270.31	3,787.29	101.04	-894.67	895.12	47.00	269.91	7.93	
4,215.00	76.09	270.83	3,800.35	101.49	-939.81	940.26	47.00	270.57	9.51	
4,261.00	79.78	271.54	3,809.96	102.43	-984.77	985.23	46.00	271.19	8.16	
4,310.00	84.26	271.80	3,816.76	103.84	-1,033.27	1,033.73	49.00	271.67	9.16	
4,357.00	88.48	271.36	3,819.74	105.13	-1,080.14	1,080.61	47.00	271.58	9.03	
4,404.00	91.25	271.10	3,819.85	106.14	-1,127.13	1,127.60	47.00	271.23	5.92	
4,451.00	91.96	271.36	3,818.53	107.15	-1,174.10	1,174.57	47.00	271.23	1.61	
4,499.00	92.40	270.22	3,816.71	107.81	-1,222.06	1,222.54	48.00	270.79	2.54	
4,593.00	92.88	270.48	3,812.38	108.38	-1,315.96	1,316.44	94.00	270.35	0.58	
4,688.00	92.79	270.75	3,807.68	109.40	-1,410.84	1,411.32	95.00	270.62	0.30	
4,782.00	92.62	269.95	3,803.24	109.98	-1,504.73	1,505.21	94.00	270.35	0.87	
4,876.00	92.57	270.22	3,798.98	110.12	-1,598.63	1,599.11	94.00	270.09	0.29	
4,971.00	92.57	269.16	3,794.72	109.60	-1,693.53	1,694.01	95.00	269.69	1.11	
5,065.00	92.66	268.99	3,790.44	108.09	-1,787.42	1,787.90	94.00	269.08	0.20	
5,160.00	92.53	269.16	3,786.13	106.55	-1,882.31	1,882.78	95.00	269.08	0.23	
5,253.00	92.31	269.16	3,782.21	105.19	-1,975.22	1,975.68	93.00	269.16	0.24	
5,347.00	91.69	269.25	3,778.93	103.89	-2,069.15	2,069.60	94.00	269.21	0.67	
5,442.00	91.96	269.69	3,775.90	103.01	-2,164.10	2,164.55	95.00	269.47	0.54	
5,537.00	92.35	270.22	3,772.33	102.94	-2,259.03	2,259.48	95.00	269.95	0.69	
5,631.00	92.53	270.31	3,768.33	103.37	-2,352.95	2,353.39	94.00	270.26	0.21	
5,725.00	92.79	270.48	3,763.97	104.02	-2,446.84	2,447.29	94.00	270.39	0.33	



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
5,819.00	92.48	270.92	3,759.64	105.16	-2,540.74	2,541.19	94.00	270.70	0.57
5,914.00	92.53	270.92	3,755.49	106.69	-2,635.63	2,636.09	95.00	270.92	0.05
6,008.00	91.69	270.39	3,752.03	107.76	-2,729.56	2,730.02	94.00	270.65	1.06
6,103.00	93.01	269.25	3,748.14	107.46	-2,824.48	2,824.94	95.00	269.82	1.84
6,197.00	92.88	269.34	3,743.31	106.31	-2,918.35	2,918.80	94.00	269.30	0.17
6,291.00	92.40	269.34	3,738.98	105.23	-3,012.24	3,012.69	94.00	269.34	0.51
6,385.00	92.75	269.34	3,734.75	104.15	-3,106.14	3,106.58	94.00	269.34	0.37
6,480.00	93.05	269.60	3,729.95	103.27	-3,201.01	3,201.45	95.00	269.47	0.42
6,575.00	93.32	269.51	3,724.67	102.53	-3,295.86	3,296.30	95.00	269.56	0.30
6,666.00	92.09	269.95	3,720.37	102.10	-3,386.76	3,387.19	91.00	269.73	1.44
6,757.00	91.56	270.39	3,717.48	102.37	-3,477.71	3,478.14	91.00	270.17	0.76
6,847.00	91.25	270.92	3,715.27	103.40	-3,567.68	3,568.11	90.00	270.66	0.68
6,938.00	91.12	271.01	3,713.39	104.93	-3,658.65	3,659.09	91.00	270.97	0.17
7,029.00	91.25	270.83	3,711.51	106.40	-3,749.62	3,750.06	91.00	270.92	0.24
7,120.00	91.87	270.66	3,709.03	107.58	-3,840.57	3,841.02	91.00	270.75	0.71
7,211.00	92.13	270.75	3,705.85	108.70	-3,931.51	3,931.96	91.00	270.70	0.30
7,302.00	92.22	270.39	3,702.40	109.60	-4,022.44	4,022.90	91.00	270.57	0.41
7,393.00	92.84	270.57	3,698.38	110.36	-4,113.35	4,113.81	91.00	270.48	0.71
7,483.00	92.88	270.48	3,693.89	111.19	-4,203.23	4,203.69	90.00	270.53	0.11
7,575.00	92.75	270.13	3,689.37	111.68	-4,295.12	4,295.58	92.00	270.30	0.41
7,665.00	93.23	269.60	3,684.68	111.46	-4,385.00	4,385.46	90.00	269.87	0.79
7,756.00	93.10	269.16	3,679.65	110.48	-4,475.85	4,476.31	91.00	269.38	0.50
7,847.00	92.84	268.99	3,674.94	109.01	-4,566.72	4,567.17	91.00	269.07	0.34
7,940.00	92.22	268.55	3,670.83	107.02	-4,659.61	4,660.04	93.00	268.77	0.82
8,030.00	92.40	266.61	3,667.21	103.22	-4,749.45	4,749.87	90.00	267.58	2.16
8,120.00	92.35	267.58	3,663.48	98.67	-4,839.25	4,839.65	90.00	267.10	1.08
8,212.00	91.82	269.43	3,660.13	96.27	-4,931.16	4,931.54	92.00	268.51	2.09



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)	
8,303.00	91.78	270.13	3,657.27	95.92	-5,022.11	5,022.49	91.00	269.78	0.77	
8,394.00	92.09	270.75	3,654.20	96.62	-5,113.06	5,113.44	91.00	270.44	0.76	
8,485.00	92.35	271.10	3,650.67	98.08	-5,203.98	5,204.37	91.00	270.92	0.48	
8,575.00	92.88	270.75	3,646.57	99.54	-5,293.87	5,294.27	90.00	270.93	0.71	
8,686.00	92.84	270.62	3,641.03	100.86	-5,404.72	5,405.13	111.00	270.68	0.12	
8,781.00	92.20	270.53	3,636.85	101.81	-5,499.63	5,500.03	95.00	270.57	0.68	
8,875.00	91.30	270.80	3,633.98	102.90	-5,593.58	5,593.98	94.00	270.67	1.00	
8,969.00	91.38	270.71	3,631.78	104.14	-5,687.54	5,687.96	94.00	270.76	0.13	
9,064.00	91.16	270.62	3,629.68	105.24	-5,782.51	5,782.93	95.00	270.66	0.25	
9,159.00	89.80	270.53	3,628.88	106.20	-5,877.50	5,877.92	95.00	270.57	1.43	
9,253.00	88.84	270.71	3,630.00	107.22	-5,971.49	5,971.91	94.00	270.62	1.04	
9,347.00	88.18	270.97	3,632.44	108.59	-6,065.45	6,065.88	94.00	270.84	0.75	
9,441.00	86.68	271.24	3,636.66	110.40	-6,159.33	6,159.77	94.00	271.10	1.62	
9,517.00	85.41	271.32	3,641.90	112.10	-6,235.13	6,235.57	76.00	271.28	1.67	
9,590.00	85.41	271.32	3,647.74	113.77	-6,307.88	6,308.33	73.00	271.32	0.00	
Final Station Closure Distance= 6308.90 /Direction= 271.03 - Projection to Bit: 9590.00' MD/ 3647.74' TVD - TD: Latitude = 32.678859 / Longitude = -104.446951 - TD: Y= 610718.87 / X= 506379.42										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,590.00	3,647.74	113.77	-6,307.88	Final Station Closure Distance= 6308.90 /Direction= 271.03
9,590.00	3,647.74	113.77	-6,307.88	Projection to Bit: 9590.00' MD/ 3647.74' TVD
9,590.00	3,647.74	113.77	-6,307.88	TD: Latitude = 32.678859 / Longitude = -104.446951
9,590.00	3,647.74	113.77	-6,307.88	TD: Y= 610718.87 / X= 506379.42

Checked By: _____	Approved By: _____	Date: _____
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