

NOV 27 2019

Form C-102
Revised August 1, 2011

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-5181 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 334-5178 Fax: (505) 334-5170

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-5178 Fax: (505) 334-5170

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

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

RECEIVED

Submit one copy to appropriate
District Office

AS Drilled

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45803	Pool Code 50270	Pool Name Penasco Draw; SA-Yeso (Assoc.)
Property Code 325892	Property Name ROSE	Well Number 6H
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 2	7	19 S	26 E		1428	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
E	12	19 S	25 E		1644	NORTH	33	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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 32.677893° Long - W 104.446988° NMSPCE- N 610367.2 E 506367.7 (NAD-83)	LAST TAKE POINT 1646' FNL & 100' FWL Lat - N 32.677888° Long - W 104.446770° NMSPCE- N 610365.3 E 506434.5 (NAD-83)	FIRST TAKE POINT 1664' FNL & 100' FWL Lat - N 32.677773° Long - W 104.429976° NMSPCE- N 610318.4 E 511601.8 (NAD-83)	SURFACE LOCATION Lat - N 32.678453° Long - W 104.426449° NMSPCE- N 510564.8 E 512687.2 (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 _____ Date _____ Printed Name Sarah Chapman Email Address schapman@spurep11c.com
				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 11/23/2019 Signature & Seal of Professional Surveyor Gary L. Lippes 7977 Certificate Number 7977 Scale: 1" = 2000' WO Num.: 34262

Intent ☐ As Drilled ☒

API #
30-015-45803

Operator Name: SPUR ENERGY PARTNERS LLC	Property Name: ROSE	Well Number 6H
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Kick Off Point (KOP)

UL 2	Section 7	Township 19S	Range 25E	Lot	Feet 1575	From N/S NORTH	Feet 929	From E/W WEST	County EDDY
Latitude 32.678049					Longitude -104.426633			NAD NAD83	

First Take Point (FTP)

UL H	Section 12	Township 19S	Range 25E	Lot	Feet 1664	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.677773					Longitude -104.429976			NAD NAD83	

Last Take Point (LTP)

UL E	Section 12	Township 19S	Range 25E	Lot	Feet 1646	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.677888					Longitude -104.446770			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 #
30-015-45797

Operator Name: SPUR ENERGY PARTNERS LLC	Property Name: ROSE	Well Number 5H
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KZ 06/29/2018



PERCUSSION
PETROLEUM
LLC

Percussion Petroleum, LLC

Eddy County, NM

Rose

#6H

OH

Design: OH

A Certified Directional Survey
requested as required by NMOCD
Rule 19.15.16.14 NMAC

End Of Well Report

21 June, 2019



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #6H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#6H	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
From:	Map	Easting:	512,404.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.680563
		Longitude:	-104.427371
		Grid Convergence:	-0.051 °

Well	#6H					
Well Position	+N/-S	0.00 usft	Northing:	610,564.80 usft	Latitude:	32.678453
	+E/-W	0.00 usft	Easting:	512,687.20 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	47,937.90778146

Design		OH		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	270.31

Survey Program		Date 6/21/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
223.00	9,000.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #6H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#6H	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	
223.00	0.53	91.71	223.00	-0.03	1.03	-1.03	223.00	91.71	0.24	
313.00	2.11	166.68	312.97	-1.66	1.83	-1.84	90.00	153.85	2.26	
404.00	4.13	199.03	403.84	-6.38	1.15	-1.18	91.00	188.21	2.86	
495.00	4.44	200.08	494.59	-12.79	-1.13	1.06	91.00	199.57	0.35	
586.00	6.55	206.59	585.16	-20.74	-4.66	4.55	91.00	203.96	2.41	
678.00	7.25	211.33	676.50	-30.39	-10.03	9.87	92.00	209.08	0.98	
768.00	7.82	203.60	765.72	-40.85	-15.44	15.21	90.00	207.32	1.29	
859.00	8.04	201.05	855.85	-52.47	-20.20	19.92	91.00	202.31	0.46	
950.00	8.13	200.52	945.95	-64.43	-24.74	24.39	91.00	200.78	0.13	
1,041.00	8.13	200.17	1,036.03	-76.50	-29.22	28.80	91.00	200.34	0.05	
1,132.00	8.18	197.71	1,126.11	-88.71	-33.40	32.92	91.00	198.94	0.39	
1,205.00	8.13	197.88	1,198.38	-98.56	-36.57	36.03	73.00	197.79	0.08	
1,360.00	8.00	201.05	1,351.84	-119.06	-43.81	43.16	155.00	199.45	0.30	
1,454.00	9.54	205.44	1,444.74	-132.20	-49.50	48.79	94.00	203.44	1.79	
1,548.00	10.37	206.06	1,537.33	-146.84	-56.57	55.77	94.00	205.76	0.89	
1,642.00	10.02	206.50	1,629.84	-161.75	-63.93	63.06	94.00	206.28	0.38	
1,736.00	10.15	205.88	1,722.39	-176.53	-71.20	70.24	94.00	206.19	0.18	
1,830.00	10.15	206.76	1,814.92	-191.37	-78.54	77.50	94.00	206.32	0.16	
1,924.00	10.02	206.50	1,907.47	-206.09	-85.92	84.80	94.00	206.63	0.15	
2,019.00	9.36	209.13	2,001.11	-220.23	-93.37	92.17	95.00	207.77	0.84	
2,066.00	7.30	220.47	2,047.62	-225.84	-97.17	95.94	47.00	214.10	5.59	
2,113.00	6.11	227.06	2,094.29	-229.82	-100.94	99.69	47.00	223.47	3.01	
2,160.00	6.95	228.56	2,140.99	-233.40	-104.90	103.63	47.00	227.86	1.82	
2,207.00	7.12	235.15	2,187.64	-236.95	-109.42	108.14	47.00	231.89	1.75	
2,254.00	7.38	240.51	2,234.26	-240.10	-114.44	113.14	47.00	237.88	1.54	
2,301.00	8.00	249.74	2,280.84	-242.72	-120.13	118.82	47.00	245.31	2.94	



Wellbenders End Of Well Report

Company: Percussion Petroleum, LLC
 Project: Eddy County, NM
 Site: Rose
 Well: #6H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #6H
 TVD Reference: RKB=16' @ 3395.00usft (Akita 20)
 MD Reference: RKB=16' @ 3395.00usft (Akita 20)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
2,348.00	9.98	265.65	2,327.27	-244.16	-127.27	125.94	47.00	258.57	6.72
2,396.00	11.56	276.02	2,374.42	-243.97	-136.20	134.88	48.00	271.21	5.20
2,443.00	13.23	281.38	2,420.33	-242.42	-146.15	144.84	47.00	278.88	4.31
2,490.00	15.21	278.92	2,465.89	-240.40	-157.52	156.22	47.00	280.07	4.40
2,537.00	17.41	271.71	2,511.00	-239.23	-170.64	169.34	47.00	275.08	6.35
2,585.00	20.26	269.78	2,556.42	-239.05	-186.13	184.84	48.00	270.67	6.08
2,632.00	23.25	269.52	2,600.07	-239.16	-203.55	202.25	47.00	269.64	6.36
2,679.00	26.02	271.10	2,642.79	-239.04	-223.14	221.84	47.00	270.35	6.06
2,726.00	28.84	271.80	2,684.50	-238.49	-244.78	243.49	47.00	271.47	6.04
2,773.00	31.65	270.92	2,725.10	-237.93	-268.44	267.15	47.00	271.34	6.05
2,820.00	34.86	269.78	2,764.40	-237.79	-294.21	292.92	47.00	270.33	6.96
2,868.00	38.11	269.16	2,802.98	-238.06	-322.75	321.46	48.00	269.46	6.81
2,915.00	41.05	269.60	2,839.21	-238.38	-352.69	351.39	47.00	269.39	6.28
2,962.00	43.60	270.04	2,873.95	-238.47	-384.33	383.04	47.00	269.83	5.46
3,009.00	46.59	270.04	2,907.13	-238.45	-417.62	416.32	47.00	270.04	6.36
3,056.00	49.63	269.52	2,938.50	-238.59	-452.60	451.30	47.00	269.77	6.52
3,103.00	52.70	268.99	2,967.97	-239.07	-489.21	487.90	47.00	269.25	6.59
3,149.00	56.00	268.90	2,994.78	-239.76	-526.57	525.27	46.00	268.94	7.18
3,196.00	58.20	268.99	3,020.31	-240.48	-566.03	564.72	47.00	268.95	4.68
3,243.00	59.30	268.99	3,044.69	-241.19	-606.20	604.89	47.00	268.99	2.34
3,290.00	60.57	268.72	3,068.24	-242.00	-646.87	645.55	47.00	268.85	2.75
3,336.00	61.36	268.99	3,090.56	-242.81	-687.08	685.75	46.00	268.86	1.79
3,383.00	61.98	268.81	3,112.87	-243.60	-728.44	727.11	47.00	268.90	1.36
3,429.00	60.75	269.60	3,134.91	-244.16	-768.81	767.48	46.00	269.20	3.07
3,476.00	62.24	269.78	3,157.34	-244.39	-810.11	808.78	47.00	269.69	3.19
3,524.00	67.65	269.43	3,177.66	-244.69	-853.58	852.24	48.00	269.60	11.29
3,571.00	72.31	268.99	3,193.75	-245.30	-897.72	896.38	47.00	269.21	9.95



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #6H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#6H	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)
3,618.00	75.87	268.81	3,206.63	-246.17	-942.90	941.56	47.00	268.90	7.58
3,665.00	79.03	269.25	3,216.84	-246.94	-988.77	987.42	47.00	269.03	6.79
3,711.00	82.02	269.87	3,224.41	-247.29	-1,034.13	1,032.78	46.00	269.56	6.63
3,804.00	88.18	270.13	3,232.35	-247.29	-1,126.75	1,125.39	93.00	270.00	6.63
3,898.00	90.11	270.13	3,233.75	-247.08	-1,220.73	1,219.38	94.00	270.13	2.05
3,992.00	91.30	270.22	3,232.60	-246.79	-1,314.72	1,313.37	94.00	270.17	1.27
4,019.00	91.56	270.48	3,231.92	-246.62	-1,341.72	1,340.36	27.00	270.35	1.36
4,113.00	91.12	270.92	3,229.72	-245.48	-1,435.68	1,434.33	94.00	270.70	0.66
4,207.00	90.11	270.83	3,228.72	-244.04	-1,529.66	1,528.32	94.00	270.87	1.08
4,301.00	90.73	271.01	3,228.03	-242.53	-1,623.65	1,622.31	94.00	270.92	0.69
4,395.00	89.45	271.27	3,227.88	-240.66	-1,717.63	1,716.30	94.00	271.14	1.39
4,490.00	89.98	271.63	3,228.35	-238.26	-1,812.60	1,811.28	95.00	271.45	0.67
4,584.00	90.81	272.15	3,227.70	-235.16	-1,906.54	1,905.24	94.00	271.89	1.04
4,679.00	89.23	271.98	3,227.67	-231.73	-2,001.48	2,000.19	95.00	272.06	1.67
4,774.00	89.41	271.89	3,228.80	-228.53	-2,096.42	2,095.15	95.00	271.93	0.21
4,868.00	87.96	271.54	3,230.95	-225.71	-2,190.35	2,189.09	94.00	271.72	1.59
4,962.00	87.87	270.04	3,234.37	-224.42	-2,284.27	2,283.03	94.00	270.79	1.60
5,057.00	88.40	268.90	3,237.47	-225.30	-2,379.22	2,377.96	95.00	269.47	1.32
5,151.00	89.71	268.81	3,239.02	-227.18	-2,473.18	2,471.92	94.00	268.85	1.40
5,244.00	90.59	268.46	3,238.77	-229.39	-2,566.16	2,564.88	93.00	268.64	1.02
5,339.00	91.52	268.37	3,237.02	-232.02	-2,661.10	2,659.81	95.00	268.42	0.98
5,433.00	90.95	269.52	3,235.00	-233.75	-2,755.06	2,753.76	94.00	268.95	1.37
5,528.00	91.43	269.60	3,233.03	-234.48	-2,850.04	2,848.73	95.00	269.56	0.51
5,622.00	90.64	270.13	3,231.33	-234.70	-2,944.02	2,942.71	94.00	269.87	1.01
5,716.00	90.95	270.39	3,230.02	-234.27	-3,038.01	3,036.70	94.00	270.26	0.43
5,811.00	89.58	270.13	3,229.58	-233.84	-3,133.01	3,131.70	95.00	270.26	1.47
5,905.00	89.54	269.69	3,230.31	-233.99	-3,227.00	3,225.69	94.00	269.91	0.47



Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #6H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#6H	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)
5,999.00	90.07	269.78	3,230.63	-234.42	-3,321.00	3,319.69	94.00	269.74	0.57
6,095.00	90.68	269.87	3,230.00	-234.72	-3,417.00	3,415.68	96.00	269.82	0.64
6,189.00	89.80	269.96	3,229.60	-234.86	-3,511.00	3,509.68	94.00	269.92	0.94
6,283.00	90.15	269.96	3,229.64	-234.92	-3,605.00	3,603.67	94.00	269.96	0.37
6,377.00	90.73	270.39	3,228.92	-234.64	-3,698.99	3,697.67	94.00	270.17	0.77
6,471.00	90.07	270.83	3,228.27	-233.63	-3,792.99	3,791.67	94.00	270.61	0.84
6,566.00	90.24	270.92	3,228.01	-232.18	-3,887.97	3,886.66	95.00	270.87	0.20
6,660.00	90.86	271.01	3,227.11	-230.60	-3,981.96	3,980.65	94.00	270.96	0.67
6,754.00	91.47	271.27	3,225.20	-228.73	-4,075.92	4,074.62	94.00	271.14	0.71
6,849.00	92.04	271.71	3,222.29	-226.26	-4,170.84	4,169.55	95.00	271.49	0.76
6,943.00	91.56	270.83	3,219.33	-224.18	-4,264.77	4,263.49	94.00	271.27	1.07
7,038.00	92.13	270.92	3,216.27	-222.73	-4,359.71	4,358.44	95.00	270.87	0.61
7,129.00	92.70	270.83	3,212.44	-221.34	-4,450.62	4,449.35	91.00	270.88	0.63
7,220.00	93.49	270.66	3,207.53	-220.16	-4,541.48	4,540.22	91.00	270.75	0.89
7,310.00	92.53	270.75	3,202.80	-219.05	-4,631.34	4,630.09	90.00	270.71	1.07
7,401.00	92.88	270.57	3,198.51	-218.01	-4,722.24	4,720.99	91.00	270.66	0.43
7,492.00	92.31	270.04	3,194.39	-217.52	-4,813.14	4,811.89	91.00	270.30	0.85
7,583.00	93.01	270.04	3,190.16	-217.46	-4,904.04	4,902.79	91.00	270.04	0.77
7,675.00	92.13	270.39	3,186.04	-217.11	-4,995.95	4,994.70	92.00	270.22	1.03
7,766.00	90.95	270.48	3,183.59	-216.42	-5,086.91	5,085.67	91.00	270.44	1.30
7,856.00	91.34	270.66	3,181.79	-215.53	-5,176.89	5,175.65	90.00	270.57	0.48
7,948.00	91.78	271.01	3,179.29	-214.19	-5,268.84	5,267.61	92.00	270.83	0.61
8,038.00	92.22	270.31	3,176.15	-213.15	-5,358.78	5,357.55	90.00	270.66	0.92
8,128.00	93.05	269.87	3,172.01	-213.01	-5,448.69	5,447.45	90.00	270.09	1.04
8,220.00	91.78	270.04	3,168.13	-213.08	-5,540.60	5,539.37	92.00	269.96	1.39
8,312.00	91.60	270.39	3,165.42	-212.74	-5,632.56	5,631.33	92.00	270.22	0.43
8,404.00	92.13	270.57	3,162.43	-211.97	-5,724.51	5,723.28	92.00	270.48	0.61



Wellbenders

End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #6H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	WBDS_SQL_2

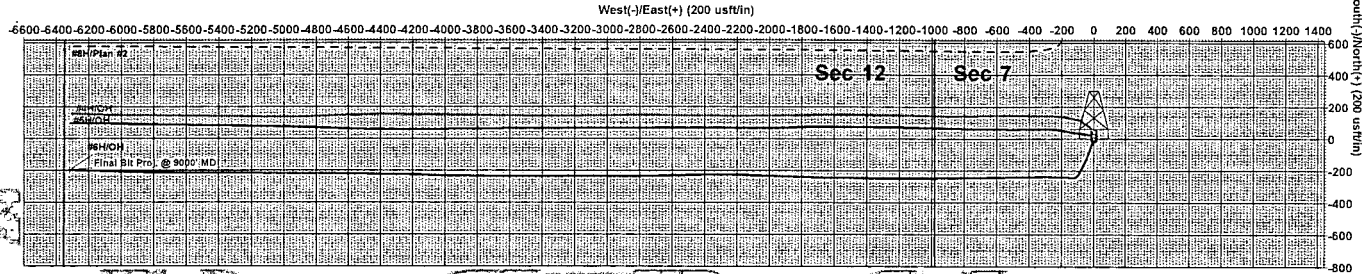
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
8,495.00	92.26	270.75	3,158.94	-210.92	-5,815.44	5,814.21	91.00	270.66	0.24
8,586.00	92.62	271.27	3,155.07	-209.32	-5,906.34	5,905.12	91.00	271.01	0.69
8,677.00	93.05	271.63	3,150.57	-207.02	-5,997.20	5,995.99	91.00	271.45	0.62
8,768.00	93.45	271.80	3,145.41	-204.30	-6,088.01	6,086.82	91.00	271.71	0.48
8,859.00	93.01	271.63	3,140.28	-201.58	-6,178.83	6,177.64	91.00	271.71	0.52
8,930.00	93.45	271.63	3,136.28	-199.56	-6,249.68	6,248.51	71.00	271.63	0.62
9,000.00	93.45	271.63	3,132.07	-197.58	-6,319.53	6,318.37	70.00	271.63	0.00
Final Station Closure Distance= 6322.62 /Direction= 268.21 - Projection to Bit: 9000.00' MD/ 3132.07' TVD - TD: Latitude = 32.677893 / Longitude = -104.446988 - TD: Y= 610367.22 / X= 506367.67									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,000.00	3,132.07	-197.58	-6,319.53	Final Station Closure Distance= 6322.62 /Direction= 268.21
9,000.00	3,132.07	-197.58	-6,319.53	Projection to Bit: 9000.00' MD/ 3132.07' TVD
9,000.00	3,132.07	-197.58	-6,319.53	TD: Latitude = 32.677893 / Longitude = -104.446988
9,000.00	3,132.07	-197.58	-6,319.53	TD: Y= 610367.22 / X= 506367.67

Checked By: _____	Approved By: _____	Date: _____
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Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Rose
Well: #6H
Wellbore: OH
Rig: Akita 20
Design: OH / 8:38, June 21 2019



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Final Bit Proj. @ 9000' MD	3132.07	-197.58	-6319.53	610367.22	506367.67	32.677893	-104.446988

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

WELL DETAILS: #6H

RKB#16' @ 3395.00usft (Akita 20)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	610564.80	512687.20	32.678453	-104.426449	

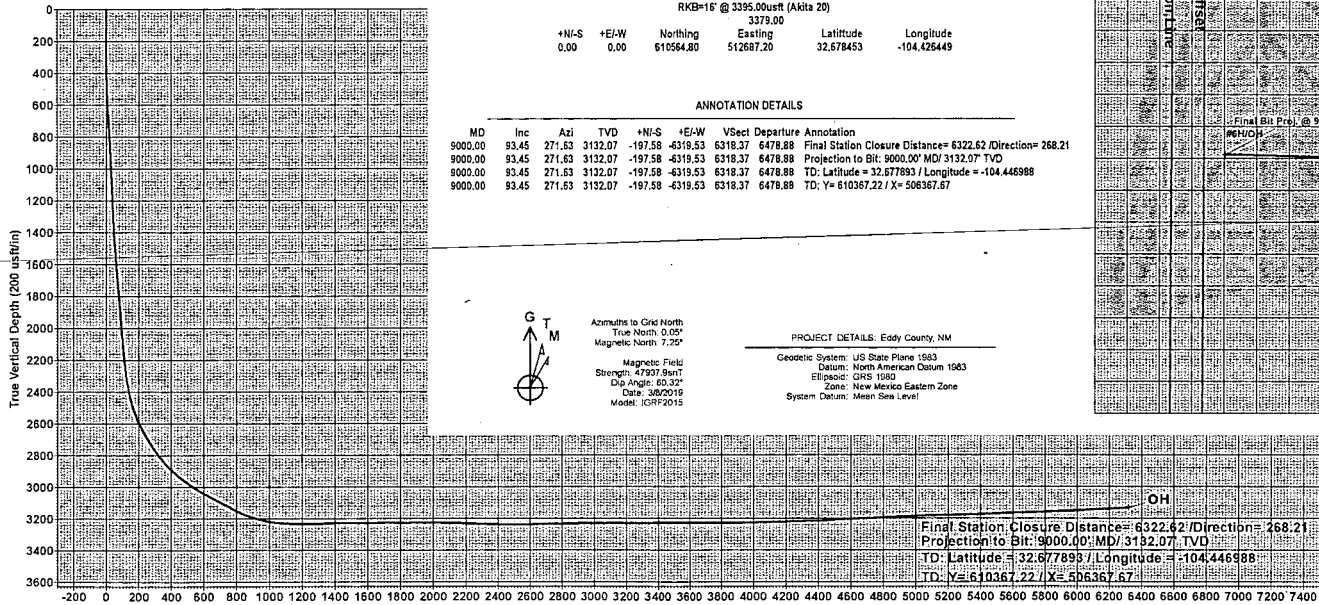
ANNOTATION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
9000.00	93.45	271.63	3132.07	-197.58	-6319.53	6318.37	6478.88	Final Station Closure Distance= 6322.62 / Direction= 268.21
9000.00	93.45	271.63	3132.07	-197.58	-6319.53	6318.37	6478.88	Projection to Bit: 9000.00' MD / 3132.07' TVD
9000.00	93.45	271.63	3132.07	-197.58	-6319.53	6318.37	6478.88	TD: Latitude = 32.677893 / Longitude = -104.446988
9000.00	93.45	271.63	3132.07	-197.58	-6319.53	6318.37	6478.88	TD: Y= 610367.22 / X= 506367.67



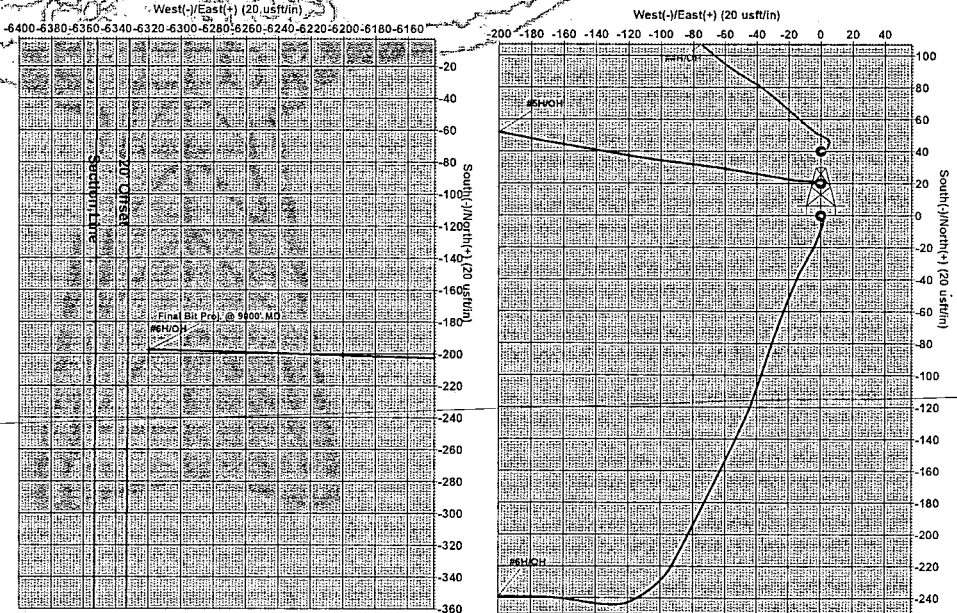
Azimuths to Grid North
True North 0.05°
Magnetic North 7.25°
Magnetic Field
Strength: 47907.9nT
Dip Angle: 60.32°
Date: 3/20/2019
Model: IGRF2015

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



Final Station Closure Distance= 6322.62 / Direction= 268.21
Projection to Bit: 9000.00' MD / 3132.07' TVD
TD: Latitude = 32.677893 / Longitude = -104.446988
TD: Y= 610367.22 / X= 506367.67

Vertical Section at 270.31° (200 usft/in)



Disclaimer:
All data, including boundary lines and other well location survey data, is provided by customer and subject to customer approval.

Design: OH (#6H/OH) Akita 20
Created By: Derek Stephens Date: 8:38, June 21 2019