

NOV 27 2019

Revised August 1, 2011

Submit one copy to appropriate District Office

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6181 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-0720

DISTRICT III
1000 Rio Brazos Rd., Aztec, 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

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

RECEIVED

AS-Drilled
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45797	Pool Code 50270	Pool Name Penasco Draw; SA-Yeso (Assoc.)
Property Code 325892	Property Name ROSE	Well Number 5H
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		1408	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		1350	NORTH	40	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 32.678701° Long - W 104.446966° NMSPCE- N 610661.2 E 506374.6 (NAD-83)	LAST TAKE POINT 1350' FNL & 100' FWL Lat - N 32.678699° Long - W 104.446767° NMSPCE- N 610660.7 E 506435.8 (NAD-83)	FIRST TAKE POINT 1350' FNL & 100' FEL Lat - N 32.678640° Long - W 104.429980° NMSPCE- N 610633.7 E 511601.1 (NAD-83)	SURFACE LOCATION Lat - N 32.678508° Long - W 104.426449° NMSPCE- N 610584.9 E 512687.2 (NAD-83)
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N: 612011.4
 E: 506341.6
 (NAD 83)

N: 611982.2
 E: 511698.0
 (NAD 83)

N: 612037.4
 E: 516921.5
 (NAD 83)

N: 609364.1
 E: 506330.2
 (NAD 83)

N: 606693.1
 E: 506355.2
 (NAD 83)

N: 606623.1
 E: 516983.8
 (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 Chopra 11/26/19
Signature _____ Date _____
Sarah Chapman
Printed Name _____
chaman@spurepllc.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: AUGUST 23, 2019
Signature & Seal of Professional Surveyor
7977
Certificate No. 7977
GARY PROFESSIONAL LAND SURVEYOR
BASIN SURVEYS

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 34362

Intent ☐ As Drilled ☒

API # 30-015-45797			
Operator Name: SPUR ENERGY PARTNERS LLC		Property Name: ROSE	Well Number 5H

Kick Off Point (KOP)

26E

UL 2	Section 7	Township 19S	Range 25E	Lot	Feet 1369	From N/S NORTH	Feet 729	From E/W WEST	County EDDY
Latitude 32.678615					Longitude -104.427283			NAD NAD83	

First Take Point (FTP)

UL H	Section 12	Township 19S	Range 25E	Lot	Feet 1350	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.678640					Longitude -104.429980			NAD NAD83	

Last Take Point (LTP)

UL E	Section 12	Township 19S	Range 25E	Lot	Feet 1350	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.678699					Longitude -104.446767			NAD NAD83	

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

Is this well an infill well? ☐

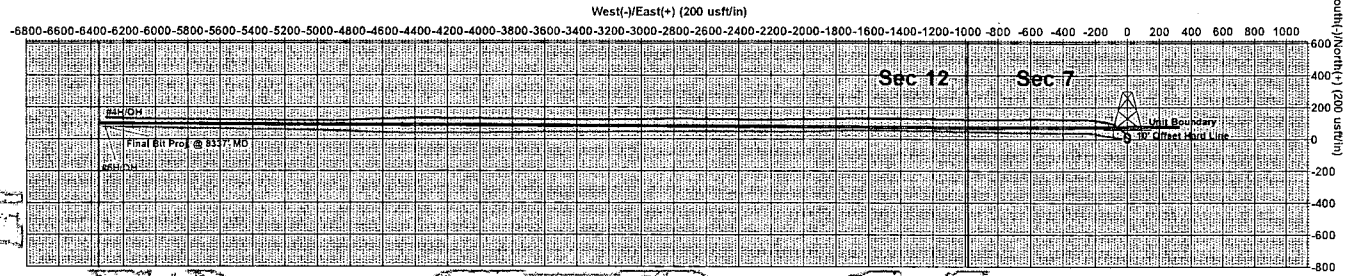
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #			
Operator Name:		Property Name:	Well Number

KZ 06/29/2018



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Rose
Well: #5H
Wellbore: OH
Rig: Akita 20
Design: OH / 9:34, June 11 2019



DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Final Bit Proj. @ 8337 MD	2592.81	76.35	-4312.61	610661.25	506374.59	32.678701	-104.446966

TOTAL CORRECTION
To convert a Magnetic Direction to a Grid Direction, Add 7.224°

WELL DETAILS: #5H

RKB=16' @ 3395.00usf (Akita 20)							
3379.00							
+N-S	+E-W	Northing	Easting	Latitude	Longitude		
0.00	0.00	610584.90	512687.20	32.678508	-104.426449		

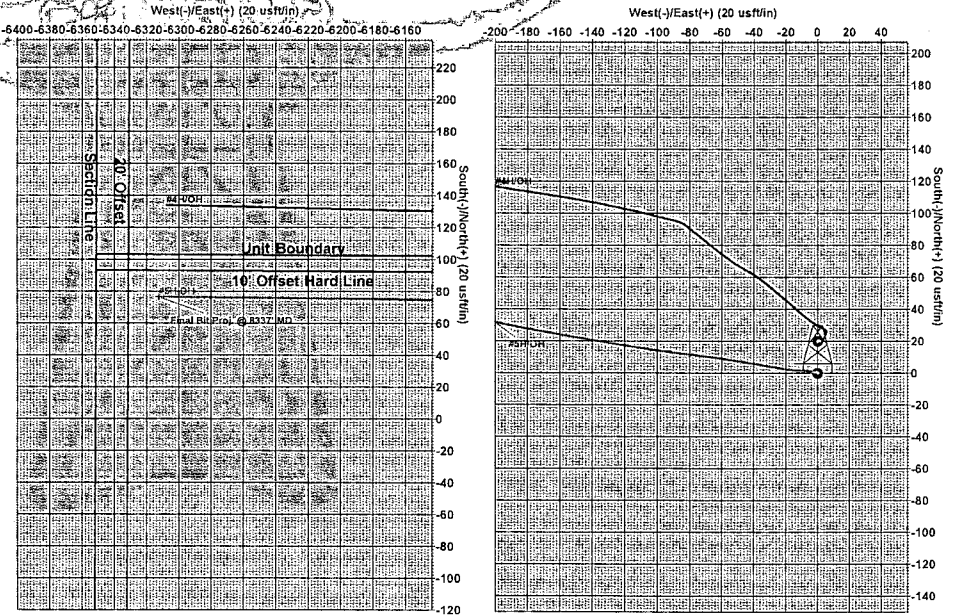
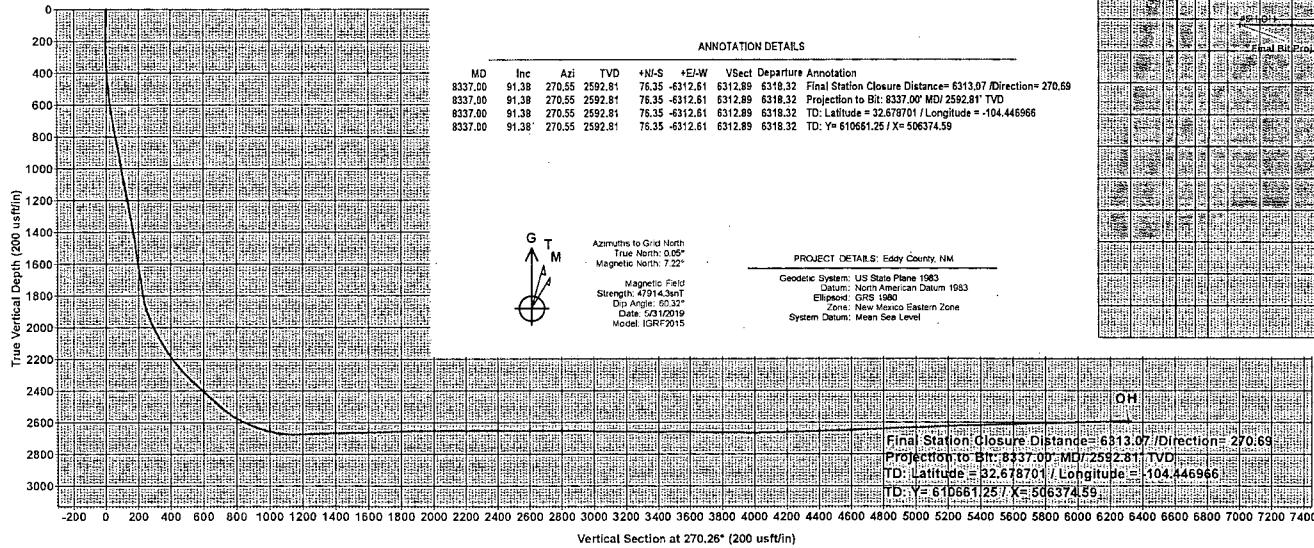
ANNOTATION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	V-Sect	Departure	Annotation
8337.00	91.38	270.55	2592.81	76.35	-4312.61	6312.89	6318.32	Final Station Closure Distance= 6313.07 / Direction= 270.69
8337.00	91.38	270.55	2592.81	76.35	-4312.61	6312.89	6318.32	Projection to Bit: 8337.00' MD/ 2592.81' TVD
8337.00	91.38	270.55	2592.81	76.35	-4312.61	6312.89	6318.32	TD: Latitude = 32.678701 / Longitude = -104.446966
8337.00	91.38	270.55	2592.81	76.35	-4312.61	6312.89	6318.32	TD: Y= 610661.25 / X= 506374.59



Azimuths to Grid North
True North: 0.05°
Magnetic North: 7.22°
Magnetic Field
Strength: 47914.3nT
Dip Angle: 60.32°
Date: 5/21/2019
Model: IGRF2015

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 True Vertical, Northing, Easting, and other well location survey data is provided by customer and subject to customer approval.

Design: OH (#5H/OH) Akita 20

Created By: Pete Broussard Date: 9:34, June 11 2019



PERCUSSION
PETROLEUM
LLC

Percussion Petroleum, LLC

Eddy County, NM

Rose

#5H

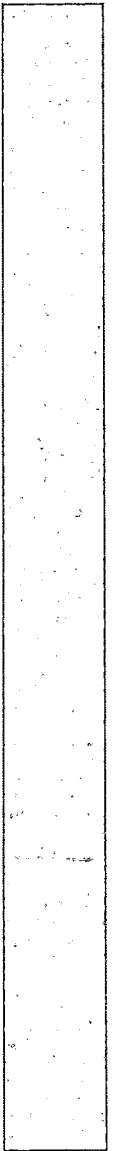
OH

Design: OH

End Of Well Report

11 June, 2019

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





Wellbenders End Of Well Report

Company:	Percussion Petroleum, LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#5H	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	#5H					1
Well Position	+N-S	0.00 usft	Northing:	610,584.90 usft	Latitude:	32.678508
	+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	5/31/2019	7.174	60.317	47,914.27619945

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	270.26

Survey Program	Date 6/11/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
222.00	8,337.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



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Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#5H	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
222.00	0.40	45.46	222.00	0.54	0.55	-0.55	222.00	45.46	0.18
312.00	1.80	273.36	311.98	0.85	-0.63	0.64	90.00	284.33	2.32
403.00	3.74	272.48	402.87	1.06	-5.03	5.03	91.00	272.77	2.13
494.00	5.23	273.45	493.59	1.44	-12.13	12.14	91.00	273.05	1.64
585.00	7.65	280.21	584.01	2.76	-22.24	22.25	91.00	277.46	2.78
677.00	10.55	279.86	674.85	5.29	-36.56	36.59	92.00	280.01	3.15
767.00	11.78	278.72	763.14	8.09	-53.76	53.80	90.00	279.26	1.39
858.00	10.64	277.23	852.40	10.56	-71.28	71.33	91.00	278.01	1.29
948.00	10.07	276.96	940.94	12.56	-87.33	87.39	90.00	277.10	0.64
1,040.00	10.11	277.75	1,031.51	14.62	-103.32	103.38	92.00	277.36	0.16
1,130.00	10.20	279.60	1,120.10	17.01	-119.00	119.08	90.00	278.68	0.38
1,201.00	10.24	280.04	1,189.98	19.16	-131.41	131.50	71.00	279.82	0.12
1,268.00	10.20	279.60	1,255.92	21.19	-143.13	143.22	67.00	279.82	0.13
1,362.00	9.80	279.60	1,348.49	23.91	-159.22	159.33	94.00	279.60	0.43
1,456.00	9.36	280.92	1,441.18	26.70	-174.61	174.73	94.00	280.24	0.52
1,550.00	8.79	281.62	1,534.00	29.59	-189.16	189.29	94.00	281.26	0.62
1,644.00	8.35	280.39	1,626.95	32.27	-202.90	203.05	94.00	281.02	0.51
1,738.00	9.67	278.98	1,719.79	34.73	-217.42	217.57	94.00	279.63	1.42
1,832.00	9.67	280.39	1,812.45	37.39	-232.98	233.15	94.00	279.68	0.25
1,926.00	19.56	271.42	1,903.31	39.21	-256.54	256.71	94.00	274.41	10.76
2,020.00	25.23	269.84	1,990.18	39.54	-292.33	292.51	94.00	270.54	6.07
2,115.00	28.88	269.49	2,074.77	39.28	-335.53	335.71	95.00	269.65	3.85
2,209.00	32.75	269.75	2,155.49	38.97	-383.68	383.85	94.00	269.63	4.12
2,303.00	36.70	270.19	2,232.73	38.95	-437.21	437.38	94.00	269.98	4.21
2,398.00	44.04	270.72	2,305.06	39.46	-498.70	498.87	95.00	270.47	7.73
2,492.00	47.12	270.90	2,370.84	40.41	-565.82	566.00	94.00	270.81	3.28



Wellbenders End Of Well Report

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Project:	Eddy County, NM	TVD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#5H	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)
2,587.00	46.11	269.93	2,436.10	40.91	-634.86	635.04	95.00	270.42	1.30
2,681.00	46.73	270.19	2,500.90	40.99	-702.95	703.13	94.00	270.06	0.69
2,775.00	56.48	271.42	2,559.21	42.07	-776.53	776.71	94.00	270.85	10.42
2,869.00	64.84	271.16	2,605.23	43.91	-858.38	858.57	94.00	271.28	8.90
2,964.00	70.81	271.42	2,641.07	45.89	-946.29	946.48	95.00	271.29	6.29
3,058.00	78.59	271.16	2,665.86	47.93	-1,036.86	1,037.07	94.00	271.29	8.28
3,151.00	89.14	271.42	2,675.78	50.01	-1,129.18	1,129.39	93.00	271.29	11.35
3,245.00	92.40	270.81	2,674.52	51.84	-1,223.14	1,223.36	94.00	271.12	3.53
3,338.00	92.97	270.90	2,670.16	53.23	-1,316.02	1,316.25	93.00	270.85	0.62
3,431.00	90.11	270.11	2,667.66	54.04	-1,408.98	1,409.21	93.00	270.50	3.19
3,553.00	91.21	269.93	2,666.26	54.09	-1,530.97	1,531.20	122.00	270.02	0.91
3,647.00	92.31	270.19	2,663.37	54.18	-1,624.92	1,625.15	94.00	270.06	1.20
3,740.00	92.70	269.31	2,659.30	53.78	-1,717.83	1,718.06	93.00	269.75	1.03
3,833.00	91.96	268.44	2,655.52	51.95	-1,810.73	1,810.95	93.00	268.87	1.23
3,927.00	90.51	268.44	2,653.50	49.40	-1,904.67	1,904.88	94.00	268.44	1.54
4,021.00	89.71	269.23	2,653.32	47.49	-1,998.65	1,998.85	94.00	268.84	1.20
4,115.00	90.95	269.67	2,652.78	46.58	-2,092.64	2,092.83	94.00	269.45	1.40
4,209.00	90.42	270.81	2,651.65	46.98	-2,186.63	2,186.83	94.00	270.24	1.34
4,304.00	89.49	270.46	2,651.73	48.03	-2,281.63	2,281.82	95.00	270.64	1.05
4,398.00	88.92	270.02	2,653.03	48.42	-2,375.62	2,375.81	94.00	270.24	0.77
4,492.00	89.14	269.75	2,654.62	48.23	-2,469.60	2,469.80	94.00	269.88	0.37
4,587.00	90.07	270.02	2,655.28	48.04	-2,564.60	2,564.79	95.00	269.89	1.02
4,681.00	91.03	269.67	2,654.37	47.79	-2,658.59	2,658.78	94.00	269.85	1.09
4,776.00	89.85	269.93	2,653.65	47.46	-2,753.59	2,753.78	95.00	269.80	1.27
4,870.00	89.98	269.93	2,653.78	47.34	-2,847.59	2,847.77	94.00	269.93	0.14
4,965.00	88.13	269.58	2,655.35	46.94	-2,942.57	2,942.75	95.00	269.76	1.98
5,059.00	88.44	269.67	2,658.16	46.32	-3,036.53	3,036.71	94.00	269.63	0.34



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Site:	Rose	MD Reference:	RKB=16' @ 3395.00usft (Akita 20)
Well:	#5H	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)
5,153.00	89.36	269.93	2,659.97	45.99	-3,130.51	3,130.68	94.00	269.80	1.02
5,247.00	89.32	269.49	2,661.05	45.52	-3,224.50	3,224.67	94.00	269.71	0.47
5,341.00	89.85	269.58	2,661.73	44.76	-3,318.49	3,318.66	94.00	269.54	0.57
5,435.00	90.46	269.93	2,661.48	44.35	-3,412.49	3,412.66	94.00	269.75	0.75
5,531.00	91.03	270.02	2,660.23	44.31	-3,508.48	3,508.65	96.00	269.97	0.60
5,625.00	88.09	269.31	2,660.95	43.76	-3,602.47	3,602.63	94.00	269.67	3.22
5,719.00	88.40	269.23	2,663.83	42.57	-3,696.42	3,696.57	94.00	269.27	0.34
5,813.00	89.01	269.23	2,665.96	41.30	-3,790.38	3,790.53	94.00	269.23	0.65
5,907.00	89.45	269.40	2,667.22	40.18	-3,884.37	3,884.51	94.00	269.32	0.50
6,002.00	89.93	269.31	2,667.73	39.11	-3,979.36	3,979.50	95.00	269.35	0.51
6,097.00	90.86	269.67	2,667.08	38.26	-4,074.35	4,074.48	95.00	269.49	1.05
6,191.00	92.00	269.67	2,664.73	37.72	-4,168.32	4,168.45	94.00	269.67	1.21
6,285.00	92.62	269.93	2,660.94	37.39	-4,262.24	4,262.37	94.00	269.80	0.72
6,379.00	91.78	270.72	2,657.33	37.93	-4,356.17	4,356.30	94.00	270.33	1.23
6,474.00	91.60	270.98	2,654.53	39.34	-4,451.12	4,451.25	95.00	270.85	0.33
6,568.00	91.87	271.16	2,651.69	41.09	-4,545.06	4,545.20	94.00	271.07	0.35
6,663.00	92.18	271.69	2,648.33	43.45	-4,639.97	4,640.12	95.00	271.42	0.65
6,754.00	92.40	272.04	2,644.69	46.41	-4,730.85	4,731.01	91.00	271.86	0.45
6,845.00	92.62	272.04	2,640.71	49.65	-4,821.70	4,821.88	91.00	272.04	0.24
6,935.00	92.09	271.34	2,637.01	52.30	-4,911.59	4,911.77	90.00	271.69	0.98
7,026.00	92.13	270.98	2,633.66	54.14	-5,002.51	5,002.70	91.00	271.16	0.40
7,117.00	92.62	271.25	2,629.89	55.91	-5,093.41	5,093.61	91.00	271.11	0.61
7,208.00	93.10	271.60	2,625.35	58.17	-5,184.27	5,184.48	91.00	271.42	0.65
7,299.00	91.25	270.90	2,621.90	60.15	-5,275.18	5,275.40	91.00	271.25	2.17
7,390.00	91.43	270.90	2,619.77	61.58	-5,366.14	5,366.37	91.00	270.90	0.20
7,481.00	92.00	271.25	2,617.04	63.29	-5,457.08	5,457.32	91.00	271.07	0.73
7,571.00	92.48	271.16	2,613.53	65.18	-5,547.00	5,547.23	90.00	271.21	0.54



Wellbenders End Of Well Report

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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)
7,663.00	91.52	270.46	270.46	2,610.32	66.48	-5,638.93	5,639.17	92.00	270.81	1.29
7,753.00	91.21	270.72	270.72	2,608.17	67.41	-5,728.90	5,729.15	90.00	270.59	0.45
7,844.00	91.08	270.81	270.81	2,606.35	68.62	-5,819.87	5,820.12	91.00	270.77	0.17
7,935.00	92.18	271.16	271.16	2,603.76	70.18	-5,910.82	5,911.08	91.00	270.98	1.27
8,028.00	92.18	271.42	271.42	2,600.23	72.28	-6,003.73	6,004.00	93.00	271.29	0.28
8,120.00	91.38	270.81	270.81	2,597.37	74.07	-6,095.67	6,095.94	92.00	271.11	1.09
8,210.00	90.86	270.55	270.55	2,595.61	75.13	-6,185.64	6,185.92	90.00	270.68	0.65
8,266.00	91.38	270.55	270.55	2,594.52	75.67	-6,241.63	6,241.91	56.00	270.55	0.93
8,337.00	91.38	270.55	270.55	2,592.81	76.35	-6,312.61	6,312.89	71.00	270.55	0.00
Final Station Closure Distance= 6313.07 /Direction= 270.69 - Projection to Bit: 8337.00' MD/ 2592.81' TVD - TD: Latitude = 32.678701 / Longitude = -104.446966 - TD: Y= 610661.25 / X= 506374.59										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
8,337.00	2,592.81	76.35	-6,312.61	Final Station Closure Distance= 6313.07 /Direction= 270.69	
8,337.00	2,592.81	76.35	-6,312.61	Projection to Bit: 8337.00' MD/ 2592.81' TVD	
8,337.00	2,592.81	76.35	-6,312.61	TD: Latitude = 32.678701 / Longitude = -104.446966	
8,337.00	2,592.81	76.35	-6,312.61	TD: Y= 610661.25 / X= 506374.59	

Checked By: _____	Approved By: _____	Date: _____
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