

SEP 19 2014

RECEIVED

**PHOENIX**
TECHNOLOGY SERVICES

September 17, 2014

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Strata Production Company
Roadrunner Federal #2H
Eddy County, NM
API #30-015-41041
Job No. 1411093

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Jeff Thomas	2H	7,512	11,366	07/10/14	07/25/14	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Dana Robinson

Dana Robinson
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 2384

PHOENIX TECHNOLOGY SERVICES SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER

1411093

OPERATOR

Strata Production

WELL NAME

Roadrunner Federal #2 H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-41041

PROPOSED DIRECTION

159.21

TIE-IN DATA

MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
7,125 ft	7,122.56 ft	1.47	191	-41.98	98.02	MS Survey

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
10-Jul-14	7,152 ft	1.5	194.8

SURVEY INSTRUMENT

TYPE

PHOENIX MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
25-Jul-14	11,366 ft	86.9	146.5

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
25-Jul-14	11,450 ft	86.9	146.5

Jeff Thomas

PRINT YOUR NAME ABOVE

Jeff Thomas

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.34
DECLINATION OR GRID	Grid

7/25/2014

TODAY'S DATE

MWD SUPERVISOR 1

Jeff Thomas

DIRECTIONAL DRILLER 1

George Woodgate

MWD SUPERVISOR 2

Shawn Ramnarine

DIRECTIONAL DRILLER 2

London Jeffreys

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)

SEP 19 2014

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) 748-1283 Fax: (575) 748-0720

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) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RECEIVED ne copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name ROADRUNNER FEDERAL	Well Number 2
OGRID No.	Operator Name STRATA PRODUCTION CO.	Elevation 3311

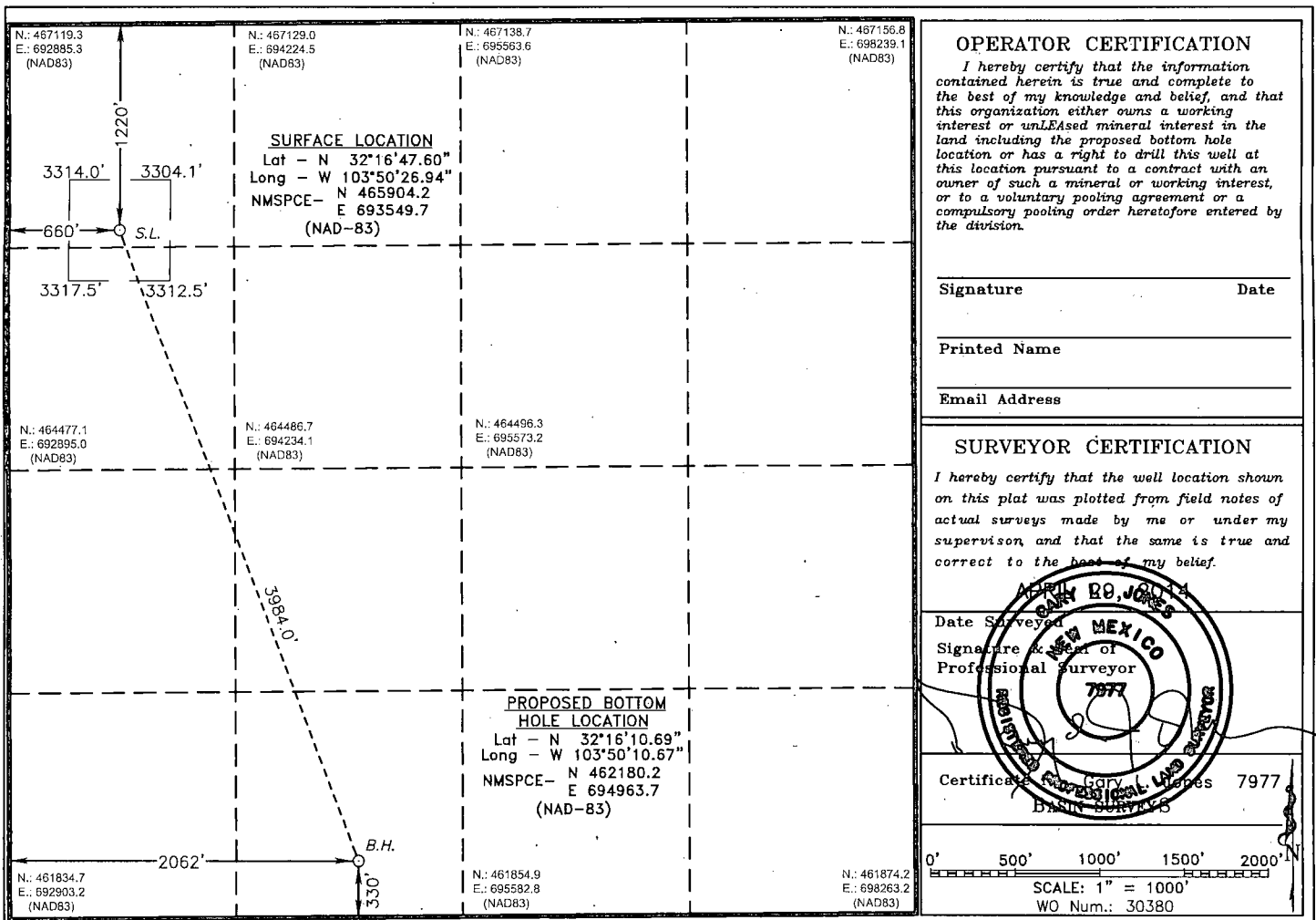
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
D	25	23 S	30 E		1220	NORTH	660	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
N	25	23 S	30 E		330	SOUTH	2062	WEST	EDDY
Dedicated Acres	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



Strata Production Company

Eddy County, New Mexico (NAD 27 NME)

Roadrunner Federal

2H

Wellbore #1 Job #1411093

Survey: Phoenix MWD Surveys

Standard Survey Report

16 September, 2014



Phoenix Technology Services

Survey Report



Company:	Strata Production Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, New Mexico (NAD 27 NME)	TVD Reference:	WELL @ 3327.00usft (Silver Oak 11)
Site:	Roadrunner Federal	MD Reference:	WELL @ 3327.00usft (Silver Oak 11)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1411093	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 GCR DB

Project:	Eddy County, New Mexico (NAD 27 NME)		
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:	Roadrunner Federal		
Site Position:	Map	Northing:	465,844.80 usft
From:		Easting:	652,366.29 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 47.14207 N
		Longitude:	103° 50' 25.15414 W
		Grid Convergence:	0.26 °

Well:	2H		
Well Position	+N-S	0.00 usft	Northing:
	+E-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 16' 47.14207 N
		Longitude:	103° 50' 25.15414 W
		Ground Level:	3,310.00 usft

Wellbore:	Wellbore #1 Job #1411093		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	07/09/14	7.34
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.12
			48,315

Design:	Surveys (Silver Oak 11)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			159.21

Survey Program	Date: 09/16/14		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.00	7,125.00	MS Gyro Survey (Wellbore #1 Job #14110	NS-GYRO-MS
7,152.00	11,450.00	Phoenix MWD Surveys (Wellbore #1 Job #	PHX+MWD+IGRF
			Description
			North sensing gyrocompassing m/s
			PHX+MWD+IGRF v3: standard declination

Survey										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
7,125.00	1.47	191.00	7,122.56	-41.98	98.02	74.04	0.00	0.00	0.00	
MS Gyro Tie-in										
7,152.00	1.50	194.80	7,149.55	-42.66	97.86	74.62	0.38	0.11	14.07	
First Phoenix Survey										
7,183.00	2.30	192.10	7,180.53	-43.66	97.63	75.47	2.60	2.58	-8.71	
7,215.00	5.00	188.00	7,212.47	-45.67	97.30	77.23	8.47	8.44	-12.81	
7,247.00	7.30	190.40	7,244.28	-49.05	96.74	80.19	7.23	7.19	7.50	
7,279.00	9.70	198.10	7,275.93	-53.61	95.54	84.03	8.28	7.50	24.06	
7,310.00	12.10	201.00	7,306.37	-59.13	93.56	88.49	7.94	7.74	9.35	

Phoenix Technology Services

Survey Report



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Site:	Roadrunner Federal	MD Reference:	WELL @ 3327.00usft (Silver Oak 11)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1411093	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 GCR DB

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)
7,342.00	14.40	196.50	7,337.51	-66.07	91.23	94.15	7.87	7.19	-14.06
7,373.00	16.90	194.90	7,367.36	-74.13	88.97	100.88	8.18	8.06	-5.16
7,405.00	19.40	192.40	7,397.77	-83.81	86.64	109.11	8.18	7.81	-7.81
7,436.00	21.20	194.60	7,426.84	-94.27	84.12	117.99	6.31	5.81	7.10
7,467.00	23.70	194.30	7,455.49	-105.73	81.17	127.66	8.07	8.06	-0.97
7,499.00	27.10	191.70	7,484.39	-119.10	78.10	139.07	11.18	10.63	-8.13
7,530.00	30.60	189.00	7,511.54	-133.82	75.43	151.88	12.04	11.29	-8.71
7,562.00	34.40	186.60	7,538.53	-150.85	73.12	166.98	12.54	11.88	-7.50
7,593.00	38.70	184.90	7,563.42	-169.21	71.28	183.49	14.25	13.87	-5.48
7,625.00	42.80	182.80	7,587.66	-190.05	69.90	202.48	13.51	12.81	-6.56
7,657.00	47.20	180.50	7,610.29	-212.66	69.26	223.39	14.66	13.75	-7.19
7,688.00	51.30	178.60	7,630.52	-236.13	69.46	245.41	14.02	13.23	-6.13
7,720.00	55.50	177.80	7,649.59	-261.80	70.27	269.70	13.28	13.13	-2.50
7,751.00	59.70	177.80	7,666.20	-287.95	71.27	294.50	13.55	13.55	0.00
7,783.00	63.20	177.90	7,681.49	-316.04	72.33	321.13	10.94	10.94	0.31
7,814.00	68.80	178.60	7,694.10	-344.33	73.19	347.89	18.18	18.06	2.26
7,845.00	73.30	178.90	7,704.16	-373.64	73.83	375.51	14.54	14.52	0.97
7,877.00	78.10	178.90	7,712.06	-404.63	74.42	404.70	15.00	15.00	0.00
7,896.00	81.00	178.60	7,715.51	-423.31	74.83	422.31	15.34	15.26	-1.58
7,907.00	83.30	178.50	7,717.01	-434.20	75.11	432.59	20.93	20.91	-0.91
7,939.00	88.50	178.00	7,719.30	-466.10	76.08	462.75	16.32	16.25	-1.56
7,970.00	88.60	178.90	7,720.08	-497.07	76.92	492.01	2.92	0.32	2.90
8,002.00	88.70	178.60	7,720.84	-529.06	77.62	522.16	0.99	0.31	-0.94
8,033.00	90.10	180.40	7,721.16	-560.05	77.89	551.23	7.36	4.52	5.81
8,065.00	90.60	181.80	7,720.96	-592.04	77.27	580.92	4.65	1.56	4.38
8,097.00	90.20	182.50	7,720.74	-624.02	76.07	610.39	2.52	-1.25	2.19
8,128.00	89.50	182.90	7,720.82	-654.99	74.61	638.82	2.60	-2.26	1.29
8,160.00	89.00	182.40	7,721.24	-686.95	73.13	668.18	2.21	-1.56	-1.56
8,191.00	88.00	182.00	7,722.05	-717.92	71.94	696.70	3.47	-3.23	-1.29
8,223.00	87.40	181.00	7,723.34	-749.88	71.11	726.29	3.64	-1.88	-3.13
8,254.00	86.50	180.10	7,724.99	-780.83	70.81	755.12	4.10	-2.90	-2.90
8,285.00	85.90	179.00	7,727.04	-811.76	71.05	784.12	4.04	-1.94	-3.55
8,317.00	85.40	178.10	7,729.47	-843.66	71.86	814.23	3.21	-1.56	-2.81
8,348.00	84.90	177.30	7,732.09	-874.52	73.10	843.52	3.04	-1.61	-2.58
8,380.00	84.90	176.70	7,734.93	-906.35	74.77	873.87	1.87	0.00	-1.88
8,411.00	85.40	175.80	7,737.55	-937.18	76.79	903.41	3.31	1.61	-2.90
8,443.00	85.70	175.30	7,740.04	-968.98	79.26	934.02	1.82	0.94	-1.56
8,475.00	86.20	174.60	7,742.30	-1,000.78	82.07	964.74	2.68	1.56	-2.19
8,506.00	86.40	173.80	7,744.30	-1,031.56	85.20	994.63	2.65	0.65	-2.58
8,538.00	87.60	173.30	7,745.97	-1,063.31	88.79	1,025.58	4.06	3.75	-1.56
8,569.00	87.90	172.40	7,747.19	-1,094.04	92.64	1,055.69	3.06	0.97	-2.90
8,601.00	87.70	171.40	7,748.42	-1,125.70	97.15	1,086.88	3.18	-0.63	-3.13
8,634.00	87.50	171.30	7,749.80	-1,158.30	102.11	1,119.12	0.68	-0.61	-0.30

Phoenix Technology Services

Survey Report



Company:	Strata Production Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, New Mexico (NAD 27 NME)	TVD Reference:	WELL @ 3327.00usft (Silver Oak 11)
Site:	Roadrunner Federal	MD Reference:	WELL @ 3327.00usft (Silver Oak 11)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1411093	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 GCR DB

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)
8,665.00	87.80	170.60	7,751.07	-1,188.88	106.98	1,149.44	2.45	0.97	-2.26
8,697.00	88.80	168.80	7,752.02	-1,220.35	112.70	1,180.89	6.43	3.13	-5.63
8,728.00	91.10	167.40	7,752.05	-1,250.68	119.09	1,211.52	8.69	7.42	-4.52
8,760.00	93.40	166.00	7,750.79	-1,281.80	126.45	1,243.21	8.41	7.19	-4.38
8,791.00	94.80	163.40	7,748.58	-1,311.62	134.60	1,273.99	9.51	4.52	-8.39
8,823.00	93.80	160.70	7,746.18	-1,341.97	144.44	1,305.86	8.98	-3.13	-8.44
8,854.00	92.20	158.60	7,744.55	-1,371.00	155.20	1,336.81	8.51	-5.16	-6.77
8,886.00	91.20	157.20	7,743.60	-1,400.63	167.24	1,368.79	5.37	-3.13	-4.38
8,917.00	89.40	155.00	7,743.44	-1,428.97	179.79	1,399.74	9.17	-5.81	-7.10
8,949.00	88.80	153.60	7,743.94	-1,457.80	193.67	1,431.62	4.76	-1.88	-4.38
8,980.00	88.90	153.40	7,744.57	-1,485.54	207.50	1,462.46	0.72	0.32	-0.65
9,012.00	90.10	152.20	7,744.85	-1,514.00	222.12	1,494.25	5.30	3.75	-3.75
9,043.00	90.40	152.20	7,744.71	-1,541.42	236.58	1,525.02	0.97	0.97	0.00
9,075.00	90.80	152.10	7,744.37	-1,569.71	251.53	1,556.78	1.29	1.25	-0.31
9,169.00	91.20	152.10	7,742.73	-1,652.77	295.51	1,650.04	0.43	0.43	0.00
9,263.00	92.80	152.20	7,739.45	-1,735.83	339.39	1,743.27	1.71	1.70	0.11
9,358.00	88.80	150.60	7,738.13	-1,819.21	384.85	1,837.36	4.53	-4.21	-1.68
9,453.00	89.90	150.10	7,739.21	-1,901.76	431.85	1,931.21	1.27	1.16	-0.53
9,547.00	89.60	149.20	7,739.62	-1,982.88	479.34	2,023.91	1.01	-0.32	-0.96
9,642.00	91.30	148.50	7,738.87	-2,064.18	528.48	2,117.35	1.94	1.79	-0.74
9,736.00	88.60	149.10	7,738.95	-2,144.57	577.17	2,209.80	2.94	-2.87	0.64
9,830.00	89.00	148.40	7,740.92	-2,224.92	625.92	2,302.21	0.86	0.43	-0.74
9,925.00	91.00	148.80	7,740.92	-2,306.00	675.42	2,395.58	2.15	2.11	0.42
10,019.00	87.80	148.10	7,741.90	-2,386.09	724.59	2,487.91	3.48	-3.40	-0.74
10,114.00	88.60	147.90	7,744.89	-2,466.61	774.91	2,581.05	0.87	0.84	-0.21
10,208.00	89.10	148.30	7,746.77	-2,546.40	824.57	2,673.27	0.68	0.53	0.43
10,302.00	89.40	148.80	7,748.01	-2,626.59	873.61	2,765.64	0.62	0.32	0.53
10,397.00	89.50	150.20	7,748.92	-2,708.43	921.83	2,859.28	1.48	0.11	1.47
10,491.00	90.20	150.30	7,749.16	-2,790.04	968.47	2,952.13	0.75	0.74	0.11
10,585.00	90.20	149.30	7,748.84	-2,871.28	1,015.75	3,044.86	1.06	0.00	-1.06
10,704.00	91.00	149.30	7,747.59	-2,973.60	1,076.50	3,162.08	0.67	0.67	0.00
10,799.00	90.80	147.40	7,746.10	-3,054.46	1,126.34	3,255.36	2.01	-0.21	-2.00
10,894.00	89.00	147.40	7,746.26	-3,134.49	1,177.52	3,348.35	1.89	-1.89	0.00
10,988.00	88.90	147.30	7,747.99	-3,213.62	1,228.23	3,440.33	0.15	-0.11	-0.11
11,083.00	88.70	147.30	7,749.97	-3,293.55	1,279.54	3,533.26	0.21	-0.21	0.00
11,177.00	87.70	146.50	7,752.93	-3,372.25	1,330.85	3,625.05	1.36	-1.06	-0.85
11,271.00	87.70	146.50	7,756.70	-3,450.57	1,382.69	3,716.68	0.00	0.00	0.00
11,366.00	86.90	146.50	7,761.17	-3,529.70	1,435.06	3,809.24	0.84	-0.84	0.00
Final Phoenix Survey.									
11,450.00	86.90	146.50	7,765.72	-3,599.65	1,481.36	3,891.07	0.00	0.00	0.00
Projection to TD									

Phoenix Technology Services

Survey Report



Company:	Strata Production Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, New Mexico (NAD 27 NME)	TVD Reference:	WELL @ 3327.00usft (Silver Oak 11)
Site:	Roadrunner Federal	MD Reference:	WELL @ 3327.00usft (Silver Oak 11)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1411093	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 11)	Database:	Compass 5000 GCR DB

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,125.00	7,122.56	-41.98	98.02	MS Gyro Tie-in
7,152.00	7,149.55	-42.66	97.86	First Phoenix Survey
11,366.00	7,761.17	-3,529.70	1,435.06	Final Phoenix Survey
11,450.00	7,765.72	-3,599.65	1,481.36	Projection to TD.

Checked By: _____	Approved By: _____	Date: _____
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