

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 16 2019

Form C-102

Revised August 1, 2011

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-8161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV

1226 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

as amended

API Number 30-015-45695	Pool Code 97565	Pool Name N. Seven Rivers; Glorieta-Yeso
Property Code 325894	Property Name ROSS RANCH 22	Well Number 14H
OGRID No. 328947	Operator Name SPUR ENERGY PARTNERS, LLC	Elevation 3472'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/South line	FEET from the	East/West line	County
D	27	19 S	25 E		737	NORTH	557	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	22	19 S	25 E		60	NORTH	410	WEST	EDDY

Dedicated Acres	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

N: 601612.7 E: 495832.6 (NAD 83) PROPOSED BOTTOM HOLE Lat - N 32.653633° Long - W 104.479853° NMSPC- E 601553.8 E 496243.3 (NAD-83) N: 598944.4 E: 495836.5 (NAD 83) LAST TAKE POINT 100' FNL & 411' FWL Lat - N 32.653416° Long - W 104.579848° NMSPC- N 601474.9 E 496244.6 (NAD-83) N: 596277.8 E: 495841.1 (NAD 83) FIRST TAKE POINT 100' FSL & 405' FWL Lat - N 32.639366° Long - W 104.479821° NMSPC- N 596363.3 E 496246.0 (NAD-83) SURFACE LOCATION Lat - N 32.637049° Long - W 104.479324° NMSPC- N 595520.3 E 496397.7 (NAD-83)	N: 601616.7 E: 498466.0 (NAD 83) N: 601604.5 E: 501083.6 (NAD 83) N: 596091.7 E: 501053.5 (NAD 83) N: 596097.4 E: 501124.4 (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. <i>Ryan Barber</i> Signature Ryan Barber Printed Name rbarber@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. APR 12, 2020 NEW MEXICO Professional Surveyor 7977 Certificate No. 7977 Bureau of Land Management 0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' WO Num.: 34510
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Intent ☐ As Drilled ☒

API #
30-015-45695

Operator Name: SPUR ENERGY PARTNERS LLC	Property Name: ROSS RANCH 22	Well Number 14H
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Kick Off Point (KOP)

UL D	Section 27	Township 19S	Range 25E	Lot	Feet 895	From N/S NORTH	Feet 438	From E/W WEST	County EDDY
Latitude 32.636615					Longitude -104.479709			NAD NAD83	

First Take Point (FTP)

UL M	Section 22	Township 19S	Range 25E	Lot	Feet 100	From N/S SOUTH	Feet 405	From E/W WEST	County EDDY
Latitude 32.639366					Longitude -104.479821			NAD NAD83	

Last Take Point (LTP)

UL D	Section 22	Township 19S	Range 25E	Lot	Feet 100	From N/S NORTH	Feet 411	From E/W WEST	County EDDY
Latitude 32.653416					Longitude -104.579848			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
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KZ 06/29/2018

API #	30-015-45695	Ross Ranch 22 #14H	County, ST	Eddy, NM
Operator	Percussion Petroleum Operating, LLC		Sec-Twn-Rng	27-19S-25E
Field	North Seven Rivers; Glorieta-Yeso		Footage	737' FNL, 557' FWL
Spud Date	3/15/2019		Survey	

RKB	3,488'
GL	3,472'

Hole Size	12-1/4"
TOC	Surf
Method	Circ Returns

Csg Depth	1,246'
Size	9-5/8"
Weight	36ppf
Grade	J-55
Connections	BTC
Cement	385 sx

5-1/2" at 9402'

7" at 3937'

3-1/2" tubing at 3294'

Perforations: 4214'-7658'

KOP = 2,590'

~90°= 4,197'

Hole Size	8-3/4"
TOC	Surf
Method	Circ Returns

Csg Depth	9,402'	3,937'
Size	5-1/2"	7"
Weight	20ppf	32ppf
Grade	N-80	L-80
Connections	BTC	BTC
Cement	1765 sx	

PBTD	9,323'
TD MD	9,402'
TD TVD	3,533'



NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 16 2019

RECEIVED

I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **03/16/19** thru **03/27/19** conduct or supervise the taking of a **MWD Survey** from a depth of **135'** to a depth of **9402'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Percussion Petroleum, LLC** for the **Ross Ranch 22 14H** API No. **30-015-45695** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

Larry
Wright

Digitally signed
by Larry Wright
Date:
2019.12.13
10:35:43 -06'00'

*1125 Beach Airport Rd, Conroe, Texas
77301
PH 936-756-3225 FAX 936-756-3248*



Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Ross Ranch 22 Unit
Well: #14H
Wellbore: OH
Rig: Akita 20
Design: OH / 12:29, March 28 2019

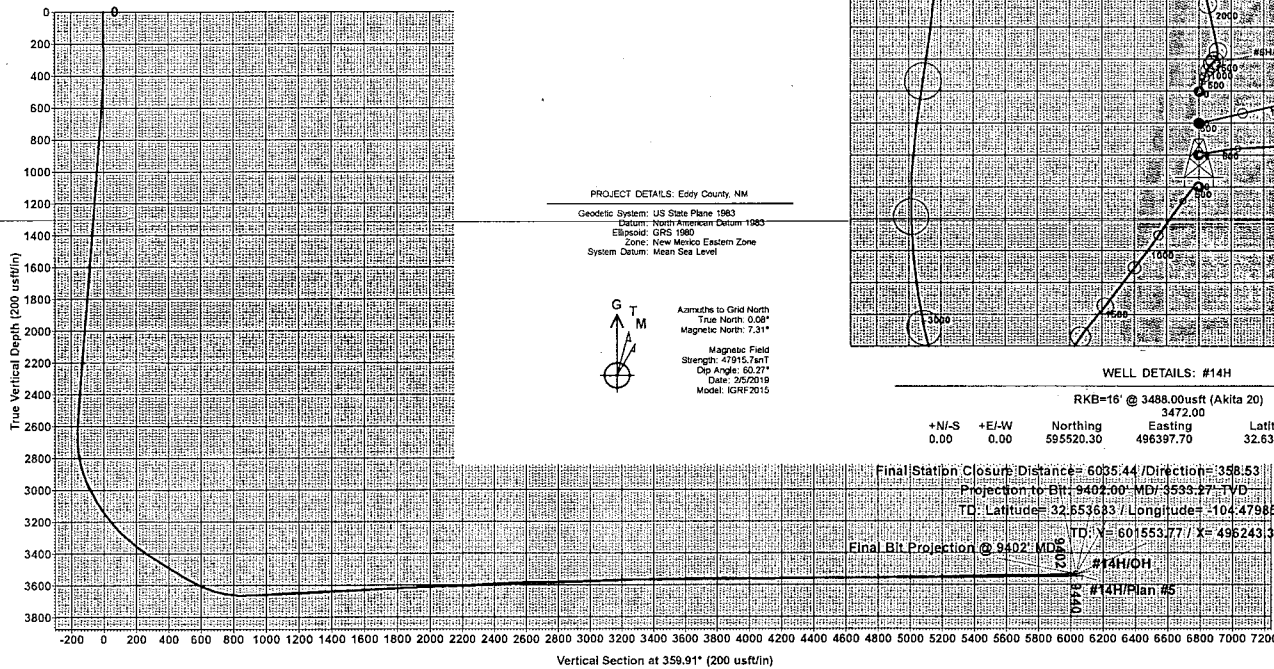


ANNOTATIONS

MD	Inc	Azi	TVD	+N/S	+E/W	VSec	Departure	Annotation
9402.00	92.57	358.96	3533.27	6033.47	-154.40	6033.70	6423.98	Final Station Closure Distance= 6035.44 / Direction= 358.53°
9402.00	92.57	358.96	3533.27	6033.47	-154.40	6033.70	6423.98	Projection to Bit: 9402.00' MD/ 3533.27' TVD
9402.00	92.57	358.96	3533.27	6033.47	-154.40	6033.70	6423.98	TD: Latitude= 32.653633 / Longitude= -104.479853
9402.00	92.57	358.96	3533.27	6033.47	-154.40	6033.70	6423.98	TD: Y= 601553.77 / X= 496243.30

DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
Final Bit Projection @ 9402' MD	3533.27	6033.47	-154.40	601553.77	496243.30	32.653633	-104.479853



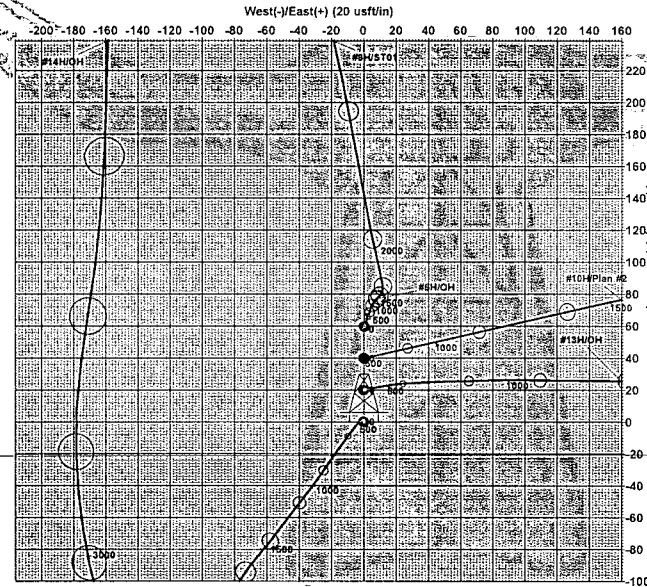
PROJECT DETAILS: Eddy County, NM

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Aligns to Grid North
True North: 0.58°
Magnetic North: 7.31°
Magnetic Field
Strength: 47915.7 nT
Dip Angle: 60.27°
Date: 2/2/2019
Model: IGRF-2015

TOTAL CORRECTION
To convert a Magnetic Direction to a Grid Direction, Add 7.307°

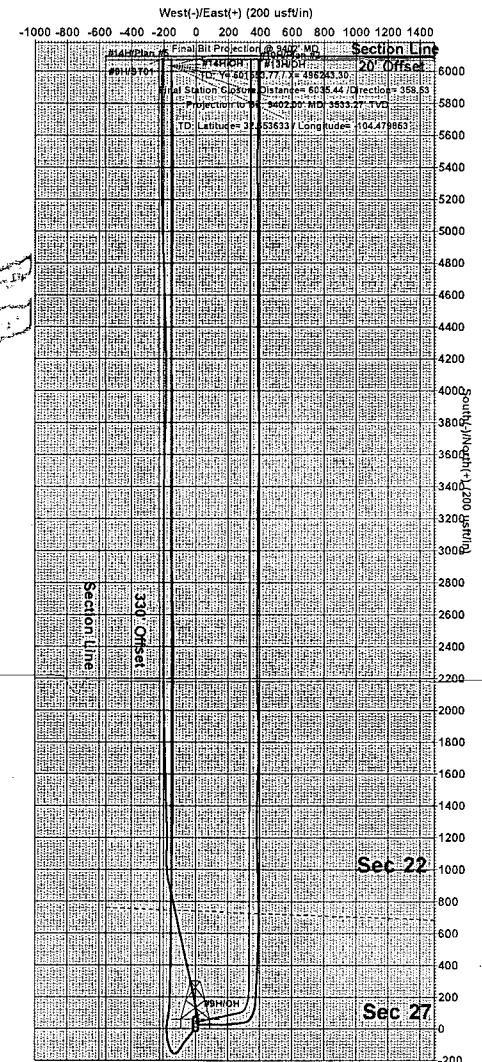


WELL DETAILS: #14H

RKB=16' @ 3488.00usft (Akita 20)	3472.00		
+N/S	+E/W	Northing	Easting
0.00	0.00	595520.30	496397.70
		Latitude	Longitude
		32.637049	-104.479324

Final Station Closure Distance= 6035.44 / Direction= 358.53°
Projection to Bit: 9402.00' MD/ 3533.27' TVD
TD: Latitude= 32.653633 / Longitude= -104.479853
TD: Y= 601553.77 / X= 496243.30
Final Bit Projection @ 9402' MD

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



Design: OH (#14H/OH) Akita 20

Created By: Pete Broussard Date: 12:29, March 28 2019



Survey Report

Service Company: Wellbenders

Well: Ross Ranch 14H

API or UWI: 30-015-45695

State: New Mexico

County: Eddy

Country: USA

Comment

Location: 15 miles South of Artesia

Rig: Akita 20

Job Number: NMDG2019-1046

Operating Company: Percussion Petroleum

Magnetic Declination: 0

Proposed Azimuth: 359.91

North Reference: GRID

Latitude: 32.637049

Longitude: -104.479324

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
135.00	0.48	2.03	135.00	0.57	0.02	2.03	0.57	0.57	0.36
226.00	0.57	344.81	225.99	1.38	-0.09	356.48	1.39	1.38	0.20
317.00	0.53	282.76	316.99	1.91	-0.61	342.20	2.01	1.91	0.62
407.00	1.93	225.54	406.97	0.94	-2.10	294.16	2.30	0.95	1.89
498.00	4.18	216.14	497.84	-2.81	-5.15	241.40	5.87	-2.80	2.52
589.00	5.63	216.05	588.50	-9.10	-9.74	226.94	13.32	-9.08	1.59
681.00	5.63	215.08	680.06	-16.44	-14.98	222.35	22.24	-16.41	0.10
772.00	5.36	214.64	770.64	-23.59	-19.97	220.25	30.90	-23.56	0.30
862.00	5.36	215.26	860.24	-30.48	-24.78	219.11	39.28	-30.44	0.06
953.00	5.27	214.55	950.85	-37.39	-29.61	218.37	47.69	-37.35	0.12
1043.00	5.36	217.28	1040.47	-44.14	-34.50	218.01	56.02	-44.09	0.30
1134.00	5.41	217.63	1131.06	-50.92	-39.69	217.93	64.56	-50.86	0.07
1186.00	5.58	216.93	1182.83	-54.88	-42.71	217.89	69.54	-54.82	0.35
1364.00	5.14	216.40	1360.05	-68.22	-52.64	217.65	86.16	-68.14	0.25
1458.00	5.10	219.47	1453.67	-74.83	-57.79	217.68	94.55	-74.74	0.29
1551.00	4.97	218.77	1546.31	-81.16	-62.94	217.79	102.71	-81.07	0.15
1647.00	4.57	218.95	1641.98	-87.38	-67.95	217.87	110.69	-87.27	0.42

1741.00	5.76	214.73	1735.60	-94.17	-72.99	217.78	119.15	-94.06	1.33
1836.00	5.76	211.56	1830.12	-102.15	-78.20	217.44	128.65	-102.03	0.33
1930.00	5.63	211.21	1923.65	-110.11	-83.06	217.03	137.93	-109.98	0.14
2024.00	5.49	215.78	2017.21	-117.70	-88.08	216.81	147.01	-117.57	0.49
2119.00	5.19	215.78	2111.80	-124.88	-93.25	216.75	155.85	-124.73	0.32
2212.00	4.97	212.53	2204.43	-131.69	-97.87	216.62	164.07	-131.53	0.39
2305.00	4.57	212.88	2297.11	-138.19	-102.05	216.44	171.79	-138.03	0.43
2400.00	5.14	215.87	2391.77	-144.82	-106.60	216.36	179.82	-144.65	0.66
2494.00	5.14	216.40	2485.39	-151.62	-111.57	216.35	188.24	-151.45	0.05
2590.00	6.15	238.55	2580.94	-157.77	-118.51	216.91	197.32	-157.58	2.48
2637.00	7.16	256.56	2627.63	-159.76	-123.50	217.71	201.93	-159.57	4.91
2683.00	8.09	279.15	2673.23	-159.91	-129.49	219.00	205.77	-159.71	6.77
2730.00	8.97	294.80	2719.71	-157.85	-136.08	220.76	208.41	-157.64	5.26
2778.00	10.33	311.06	2767.04	-153.45	-142.72	222.93	209.57	-153.23	6.32
2825.00	12.66	324.59	2813.11	-146.49	-148.89	225.47	208.87	-146.25	7.55
2873.00	16.35	333.38	2859.57	-136.15	-154.96	228.70	206.28	-135.91	8.93
2920.00	19.43	339.71	2904.30	-122.90	-160.64	232.58	202.26	-122.65	7.74
2967.00	22.24	344.02	2948.22	-107.02	-165.80	237.16	197.34	-106.75	6.81
3014.00	25.49	347.97	2991.20	-88.57	-170.36	242.53	192.01	-88.30	7.70
3062.00	28.18	351.40	3034.03	-67.25	-174.21	248.89	186.74	-66.98	6.46
3109.00	31.25	354.91	3074.85	-44.13	-176.95	256.00	182.37	-43.85	7.51
3156.00	34.11	358.43	3114.41	-18.81	-178.39	263.98	179.38	-18.53	7.30
3203.00	36.04	2.91	3152.88	8.18	-178.05	272.63	178.24	8.46	6.84
3251.00	37.41	7.57	3191.36	36.75	-175.41	281.83	179.22	37.02	6.47
3298.00	40.66	9.33	3227.86	66.02	-171.05	291.10	183.35	66.28	7.31
3345.00	43.56	7.13	3262.73	97.20	-166.56	300.27	192.85	97.46	6.92
3392.00	46.73	5.02	3295.88	130.33	-163.05	308.64	208.73	130.58	7.46
3440.00	49.85	2.39	3327.81	166.08	-160.75	315.93	231.13	166.33	7.68
3487.00	52.04	1.51	3357.42	202.55	-159.52	321.78	257.82	202.80	4.88
3534.00	53.98	1.15	3385.70	240.08	-158.65	326.54	287.76	240.33	4.17
3581.00	56.53	1.24	3412.49	278.69	-157.84	330.47	320.28	278.93	5.43
3629.00	57.36	1.24	3438.67	318.91	-156.97	333.79	355.45	319.15	1.73
3676.00	58.02	1.15	3463.79	358.62	-156.14	336.47	391.14	358.87	1.41
3723.00	58.24	1.24	3488.60	398.53	-155.31	338.71	427.72	398.77	0.50
3770.00	58.46	1.33	3513.27	438.53	-154.41	340.60	464.92	438.77	0.50
3818.00	58.51	1.42	3538.36	479.44	-153.43	342.25	503.39	479.68	0.19
3913.00	60.88	0.98	3586.29	561.43	-151.72	344.88	581.57	561.67	2.53
3960.00	64.75	359.84	3607.76	603.23	-151.42	345.91	621.94	603.47	8.51
4007.00	69.05	358.69	3626.20	646.45	-151.99	346.77	664.07	646.68	9.42

4054.00	73.41	359.05	3641.32	690.93	-152.86	347.52	707.63	691.17	9.30
4102.00	77.98	0.10	3653.17	737.42	-153.20	348.26	753.17	737.66	9.75
4149.00	82.99	1.15	3660.94	783.76	-152.69	348.98	798.49	784.00	10.88
4197.00	88.00	1.07	3664.71	831.59	-151.77	349.66	845.32	831.82	10.44
4287.00	92.79	0.01	3664.09	921.55	-150.92	350.70	933.83	921.79	5.45
4413.00	93.80	0.89	3656.85	1047.34	-149.93	351.85	1058.01	1047.57	1.06
4508.00	92.66	0.89	3651.49	1142.17	-148.46	352.59	1151.78	1142.41	1.20
4603.00	93.49	1.59	3646.40	1237.01	-146.41	353.25	1245.65	1237.24	1.14
4697.00	92.35	1.42	3641.61	1330.86	-143.94	353.83	1338.62	1331.08	1.23
4792.00	92.22	0.63	3637.82	1425.77	-142.24	354.30	1432.84	1425.99	0.84
4887.00	92.09	359.48	3634.25	1520.70	-142.15	354.66	1527.33	1520.92	1.22
4981.00	92.31	359.66	3630.64	1614.62	-142.86	354.94	1620.93	1614.85	0.30
5076.00	93.10	0.10	3626.16	1709.52	-143.05	355.22	1715.49	1709.74	0.95
5171.00	92.57	0.19	3621.46	1804.40	-142.81	355.47	1810.04	1804.62	0.57
5265.00	92.13	0.01	3617.60	1898.32	-142.65	355.70	1903.67	1898.54	0.51
5360.00	93.49	0.28	3612.95	1993.20	-142.41	355.91	1998.29	1993.43	1.46
5455.00	91.56	0.45	3608.76	2088.11	-141.81	356.11	2092.92	2088.33	2.04
5549.00	92.48	0.45	3605.45	2182.04	-141.07	356.30	2186.60	2182.26	0.98
5643.00	93.36	1.07	3600.66	2275.91	-139.82	356.48	2280.20	2276.13	1.14
5738.00	92.35	0.63	3595.93	2370.78	-138.42	356.66	2374.82	2371.00	1.16
5832.00	92.79	358.52	3591.71	2464.68	-139.11	356.77	2468.60	2464.89	2.29
5927.00	92.66	358.08	3587.20	2559.53	-141.93	356.83	2563.46	2559.75	0.48
6021.00	91.47	358.43	3583.81	2653.42	-144.79	356.88	2657.37	2653.65	1.32
6115.00	89.98	358.52	3582.62	2747.38	-147.29	356.93	2751.33	2747.61	1.59
6210.00	91.34	358.78	3581.53	2842.34	-149.53	356.99	2846.28	2842.58	1.46
6304.00	92.79	359.13	3578.14	2936.27	-151.24	357.05	2940.16	2936.50	1.59
6399.00	90.99	0.01	3575.01	3031.21	-151.95	357.13	3035.01	3031.44	2.11
6494.00	91.69	0.01	3572.78	3126.18	-151.94	357.22	3129.87	3126.41	0.74
6589.00	91.56	0.36	3570.09	3221.14	-151.63	357.30	3224.71	3221.38	0.39
6683.00	90.59	0.10	3568.33	3315.12	-151.25	357.39	3318.57	3315.36	1.07
6778.00	91.25	359.75	3566.80	3410.11	-151.38	357.46	3413.47	3410.34	0.79
6872.00	90.73	0.10	3565.18	3504.09	-151.50	357.52	3507.37	3504.33	0.67
6966.00	91.60	0.28	3563.27	3598.07	-151.19	357.59	3601.25	3598.31	0.95
7057.00	90.90	0.28	3561.28	3689.05	-150.74	357.66	3692.13	3689.28	0.77
7149.00	90.42	0.28	3560.22	3781.04	-150.29	357.72	3784.03	3781.27	0.52
7239.00	90.15	0.01	3559.77	3871.04	-150.07	357.78	3873.95	3871.27	0.42
7330.00	89.32	359.75	3560.19	3962.04	-150.26	357.83	3964.89	3962.27	0.96
7421.00	89.98	359.48	3560.75	4053.04	-150.87	357.87	4055.84	4053.27	0.78
7512.00	90.68	359.40	3560.23	4144.03	-151.76	357.90	4146.81	4144.26	0.77

7603.00	89.98	359.92	3559.70	4235.02	-152.30	357.94	4237.76	4235.26	0.96
7694.00	90.24	0.10	3559.53	4326.02	-152.28	357.98	4328.70	4326.26	0.35
7784.00	91.08	0.01	3558.49	4416.02	-152.19	358.03	4418.64	4416.25	0.94
7875.00	90.64	0.28	3557.12	4507.01	-151.96	358.07	4509.57	4507.24	0.57
7966.00	89.27	0.19	3557.20	4598.00	-151.59	358.11	4600.50	4598.24	1.51
8057.00	90.24	359.92	3557.59	4689.00	-151.50	358.15	4691.45	4689.23	1.11
8148.00	91.52	359.92	3556.19	4779.99	-151.63	358.18	4782.39	4780.22	1.41
8239.00	90.95	1.07	3554.23	4870.96	-150.84	358.23	4873.30	4871.19	1.41
8330.00	89.85	1.59	3553.59	4961.93	-148.73	358.28	4964.16	4962.16	1.34
8421.00	90.33	1.15	3553.45	5052.91	-146.56	358.34	5055.03	5053.13	0.72
8515.00	90.64	0.36	3552.65	5146.90	-145.32	358.38	5148.95	5147.12	0.90
8610.00	91.60	359.92	3550.80	5241.88	-145.09	358.41	5243.88	5242.10	1.11
8704.00	91.60	0.01	3548.17	5335.84	-145.14	358.44	5337.81	5336.06	0.10
8799.00	92.31	0.10	3544.93	5430.78	-145.05	358.47	5432.72	5431.00	0.75
8893.00	91.25	359.22	3542.01	5524.73	-145.61	358.49	5526.65	5524.96	1.47
8988.00	89.93	358.34	3541.03	5619.70	-147.63	358.50	5621.64	5619.93	1.67
9082.00	89.36	359.05	3541.61	5713.68	-149.77	358.50	5715.64	5713.90	0.97
9177.00	90.51	359.31	3541.72	5808.67	-151.13	358.51	5810.63	5808.90	1.24
9272.00	92.62	359.31	3539.13	5903.62	-152.28	358.52	5905.58	5903.85	2.22
9347.00	92.57	358.96	3535.73	5978.53	-153.41	358.53	5980.50	5978.77	0.47

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
9402.00	92.57	358.96	3533.27	6033.47	-154.40	358.53	6035.44	6033.70	0.00