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) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate District Office

As-Drilled

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-45694	97565	N. Seven Rivers; Glorieta-Yeso

Property Code	Property Name	Well Number
325894	ROSS RANCH 22	13H

OGRID No.	Operator Name	Elevation
328947	Spur Energy Partners LLC	3472'

Surface Location

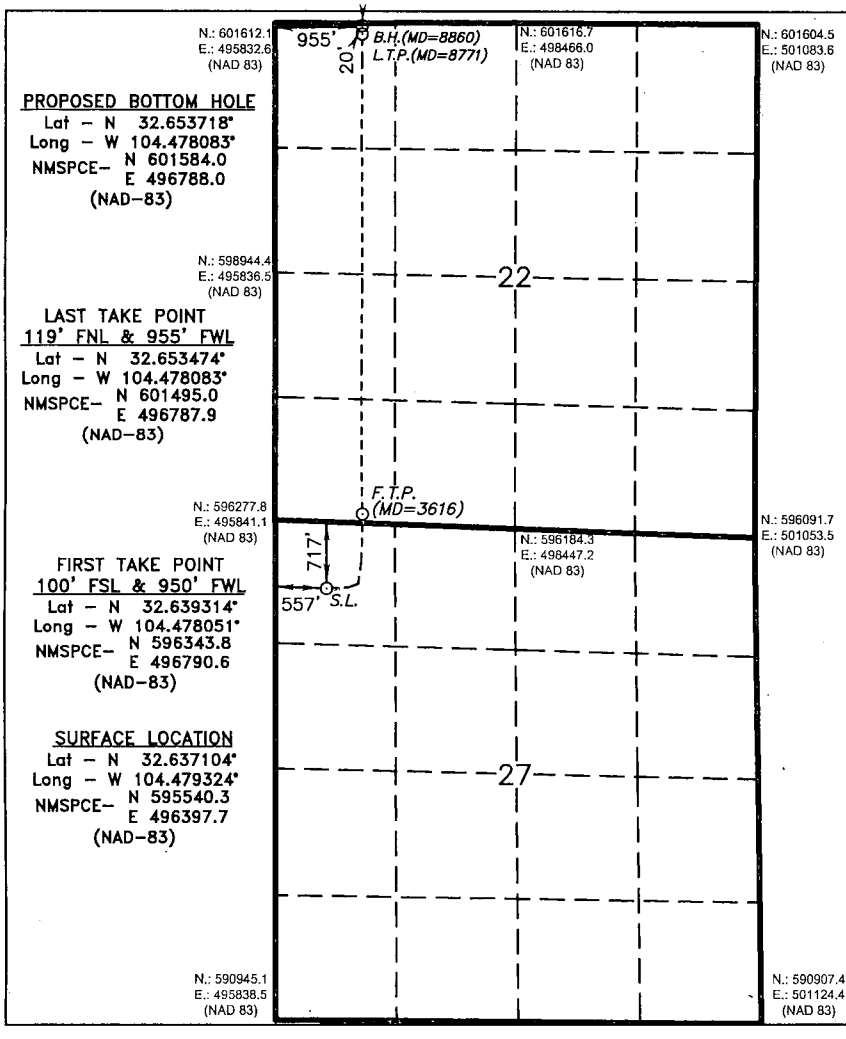
UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	North/South line	FEET from the	East/West line	County
D	27	19 S	25 E		717	NORTH	557	WEST	EDDY

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		30	NORTH	955	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



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.

Ryan Barber

Signature Date

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 supervison, and that the same is true and correct to the best of my belief.

APRIL 12, 2019

Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number Gary L. Jones 7977

BASIN SURVEYS

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

WO Num.: 34509

Intent [ ] As Drilled [X]

API #
30-015-45694

Operator Name:	Property Name:	Well Number
SPUR ENERGY PARTNERS LLC	ROSS RANCH 22	13H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	27	19S	25E		683	NORTH	892	WEST	EDDY

Latitude	Longitude	NAD
32.637199	-104.478235	NAD83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	22	19S	25E		100	SOUTH	950	WEST	EDDY

Latitude	Longitude	NAD
32.639314	-104.478051	NAD83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	22	19S	25E		119	NORTH	955	WEST	EDDY

Latitude	Longitude	NAD
32.653474	-104.478083	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

API #	30-015-45694
Operator	Percussion Petroleum Operating, LLC
Field	North Seven Rivers; Glorieta-Yeso
Spud Date	3/1/2019

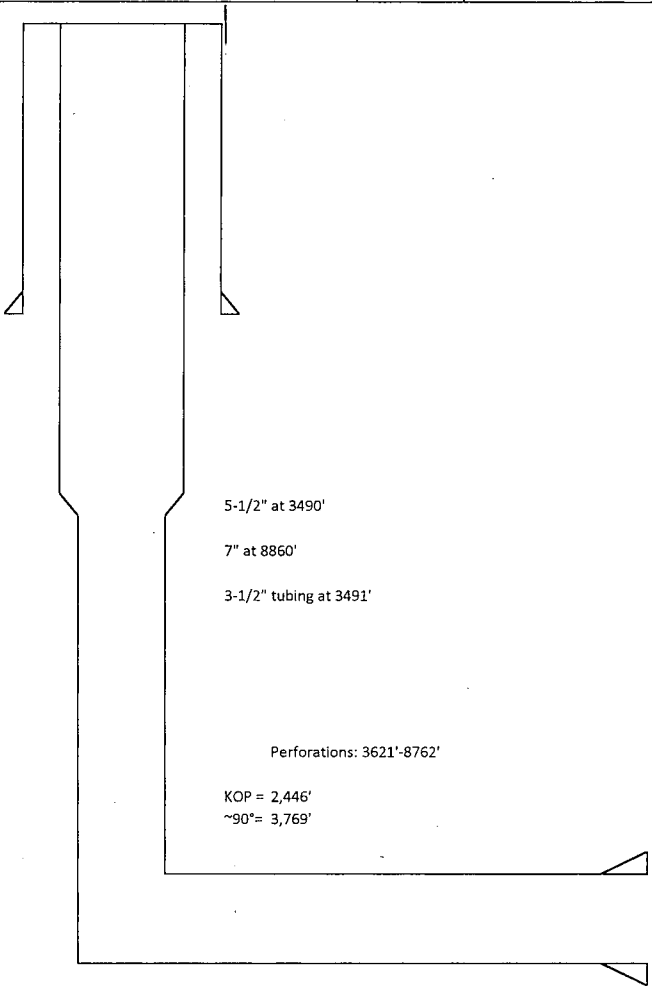
Ross Ranch 22 #13H

County, ST	Eddy, NM
Sec-Twn-Rng	27-19S-25E
Footage	717' FNL, 557' FWL
Survey	

RKB	3,488'
GL	3,472'

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

Csg Depth	1,270'
Size	9-5/8"
Weight	36ppf
Grade	J-55
Connections	BTC
Cement	370 sx



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

Csg Depth	8,860'	3,490'
Size	5-1/2"	7"
Weight	20ppf	32ppf
Grade	N-80	L-80
Connections	BTC	BTC
Cement	1675 sx	

PBTD	8,791'
TD MD	8,860'
TD TVD	3,223'

WELLBENDERS
DIRECTIONAL SERVICES LLC

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 **03/01/19** thru **03/12/19** conduct or supervise the taking of a **MWD Survey** from a depth of **136'** to a depth of **8860'**; 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 13H** API No. **30-015-45694** 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 10:30:38 -06'00'

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

PERCUSSION PETROLEUM LLC

Company: Percussion Petroleum, LLC
Project: Eddy County, NM
Site: Ross Ranch 22 Unit
Well: #13H
Wellbore: OH
Rig: Akita 20
Design: OH / 7:51, March 13 2019

WELLBENDERS DIRECTIONAL SERVICES LLC

WELL DETAILS: #13H

RKB=16' @ 3488.00usft (Akita 20)
3472.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	595540.30	496397.70	32.637104	-104.479324

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

ANNOTATION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
8860.00	90.37	359.92	3222.72	6043.75	390.28	6044.15	6360.79	Final Station Closure Distance= 6056.34 /Direction= 3.69
8860.00	90.37	359.92	3222.72	6043.75	390.28	6044.15	6360.79	Projection to Bit: 8860.00' MD/ 3222.72' TVD
8860.00	90.37	359.92	3222.72	6043.75	390.28	6044.15	6360.79	TD: Latitude = 32.653718 / Longitude = -104.478083
8860.00	90.37	359.92	3222.72	6043.75	390.28	6044.15	6360.79	TD: Y= 601584.05 / X= 496787.98

DESIGN TARGET DETAILS

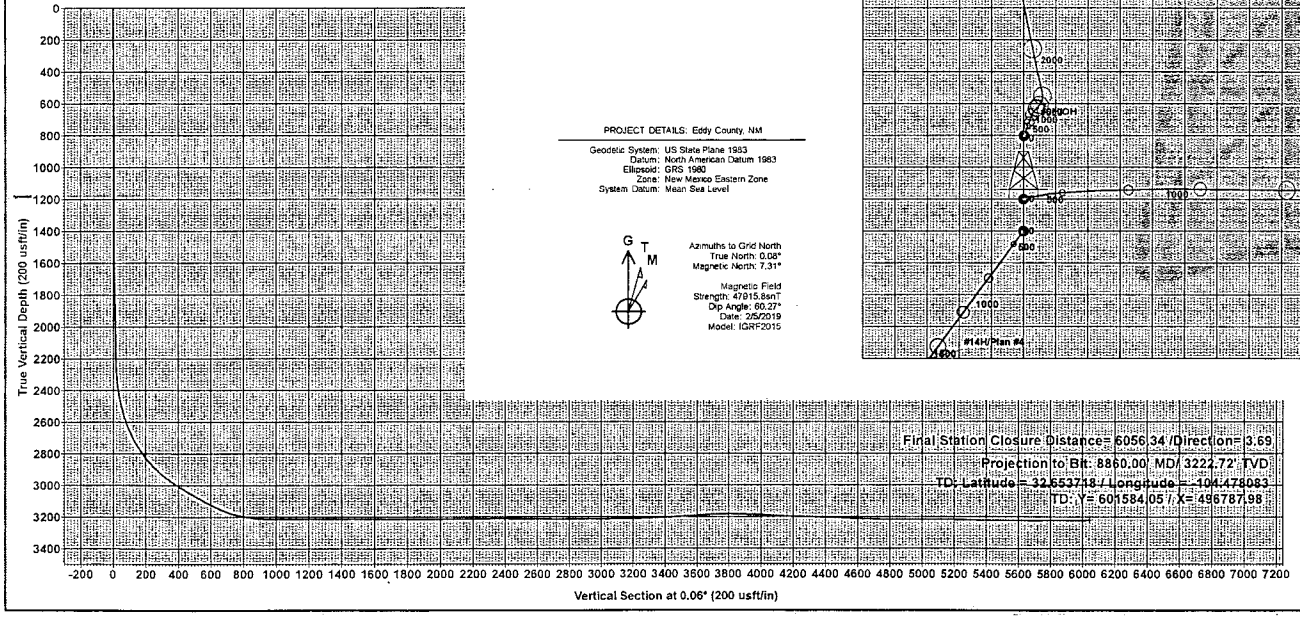
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Final Bit Proj. @ 8860' MD	3222.72	6043.75	390.28	601584.05	496787.98	32.653718	-104.478083

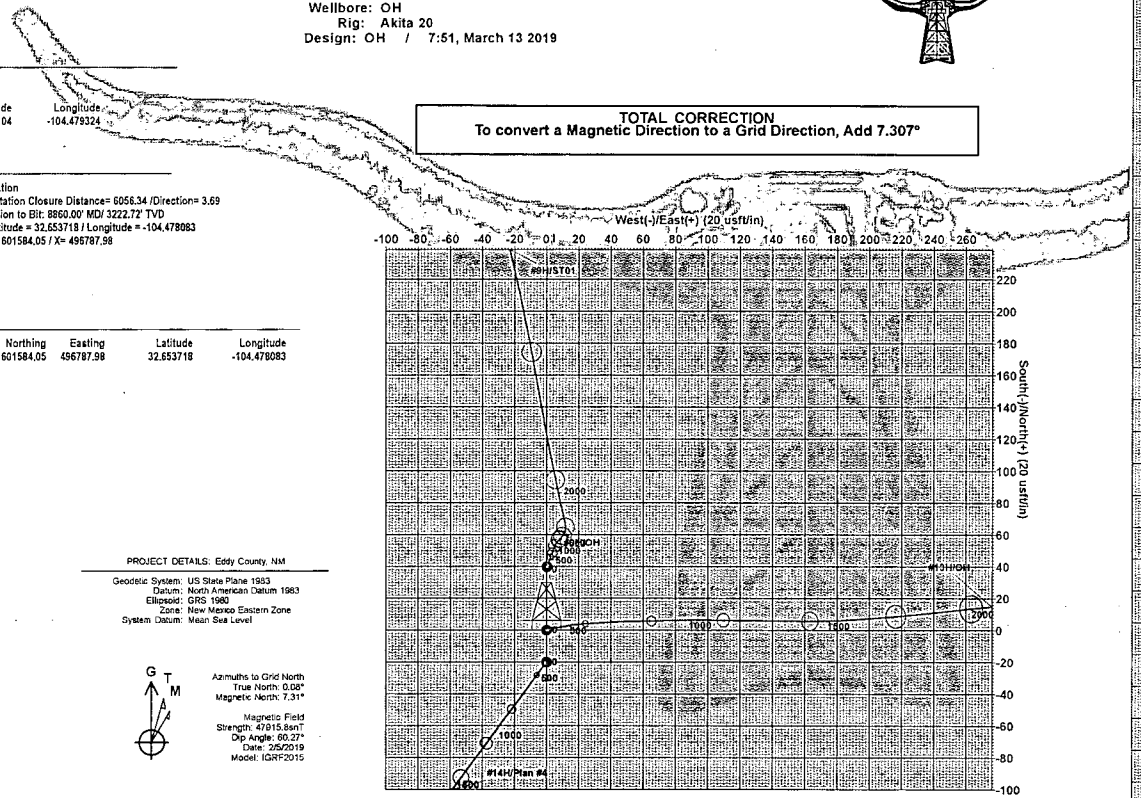
PROJECT DETAILS: Eddy County, NM

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

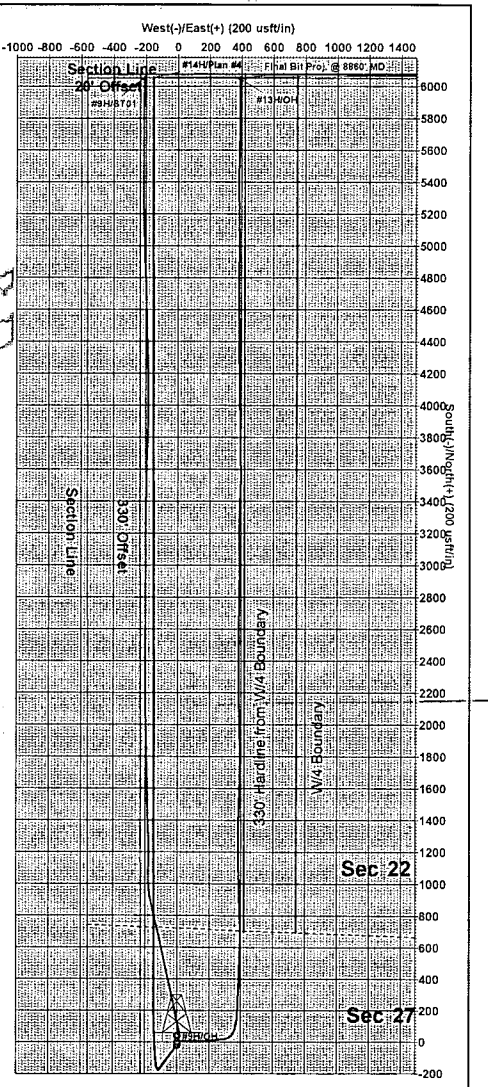
Azimuths to Grid North
True North: 0.00°
Magnetic North: 7.31°

Magnetic Field
Strength: 47915.8nT
Dip Angle: 60.27°
Date: 2/5/2019
Model: IGRF2015





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



Design: OH (#13H/OH) Akita 20

Created By: Derek Stephens Date: 7:51, March 13 2019

WELLBENDERS
DIRECTIONAL SERVICES

Survey Report

Service Company: Wellbenders
Well: Ross Ranch 22 Unit #13H
API or UWI: 30-015-45694
State: NM
County: Eddy
Country: USA
Comment

Location: Artesia NM
Rig: Akita 20
Job Number: NMDG 2019 1045
Operating Company: Percussion Petroleum
Magnetic Declination: 7.31
Proposed Azimuth: 0.06
North Reference: GRID
Latitude: -104.479324
Longitude: 32.637213

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
136.00	0.75	75.60	136.00	0.22	0.86	75.60	0.89	0.22	0.55
227.00	0.84	71.64	226.99	0.58	2.07	74.37	2.15	0.58	0.12
318.00	1.41	82.37	317.97	0.94	3.81	76.18	3.93	0.94	0.67
408.00	2.86	79.11	407.90	1.51	7.12	78.03	7.28	1.52	1.62
499.00	5.58	80.26	498.65	2.69	13.71	78.91	13.97	2.70	2.99
590.00	7.74	85.18	589.03	3.95	24.18	80.72	24.50	3.98	2.45
681.00	8.84	87.38	679.08	4.79	37.27	82.68	37.57	4.82	1.26
773.00	8.75	88.34	770.00	5.31	51.32	84.09	51.60	5.36	0.19
863.00	8.88	88.43	858.93	5.70	65.11	85.00	65.36	5.77	0.15
953.00	9.49	88.34	947.78	6.11	79.47	85.61	79.71	6.19	0.68
1044.00	9.54	90.01	1037.53	6.32	94.51	86.17	94.72	6.42	0.31
1135.00	9.49	90.63	1127.28	6.24	109.55	86.74	109.73	6.35	0.13
1210.00	9.23	91.15	1201.28	6.05	121.75	87.16	121.90	6.18	0.36
1362.00	9.67	90.45	1351.21	5.70	146.70	87.77	146.81	5.86	0.30
1456.00	10.42	89.75	1443.77	5.68	163.10	88.01	163.20	5.85	0.81
1550.00	11.16	87.73	1536.11	6.08	180.69	88.07	180.79	6.27	0.88

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1645.00	11.03	85.44	1629.34	7.16	198.93	87.94	199.06	7.37	0.48
1740.00	10.11	84.74	1722.72	8.65	216.30	87.71	216.47	8.88	0.98
1834.00	9.80	84.39	1815.31	10.19	232.47	87.49	232.70	10.43	0.34
1928.00	9.19	83.68	1908.02	11.80	247.90	87.28	248.18	12.06	0.66
2023.00	9.49	83.77	2001.76	13.48	263.22	87.07	263.57	13.76	0.32
2117.00	9.54	84.47	2094.47	15.07	278.68	86.90	279.09	15.36	0.13
2210.00	9.93	83.95	2186.13	16.66	294.32	86.76	294.79	16.97	0.43
2257.00	10.33	77.88	2232.40	17.97	302.47	86.60	303.01	18.29	2.42
2304.00	11.25	71.29	2278.57	20.33	310.94	86.26	311.60	20.65	3.27
2351.00	11.52	65.58	2324.64	23.74	319.55	85.75	320.43	24.07	2.46
2399.00	11.43	57.14	2371.69	28.30	327.91	85.07	329.13	28.65	3.50
2446.00	11.96	47.74	2417.71	34.10	335.43	84.19	337.16	34.46	4.20
2493.00	13.80	39.12	2463.53	41.73	342.57	83.05	345.10	42.09	5.65
2540.00	15.56	32.27	2509.00	51.41	349.47	81.63	353.24	51.78	5.25
2588.00	17.49	24.62	2555.02	63.41	355.92	79.90	361.52	63.79	6.05
2635.00	19.56	18.56	2599.59	77.30	361.37	77.93	369.54	77.67	6.01
2682.00	22.46	13.72	2643.46	93.48	366.00	75.67	377.75	93.86	7.19
2729.00	25.27	10.38	2686.44	112.07	369.94	73.15	386.54	112.46	6.63
2777.00	28.88	7.31	2729.18	133.66	373.26	70.30	396.47	134.05	8.06
2824.00	32.66	4.41	2769.56	157.57	375.68	67.25	407.39	157.96	8.64
2872.00	36.57	3.09	2809.05	184.77	377.45	63.92	420.25	185.17	8.29
2919.00	39.69	2.91	2846.02	213.75	378.97	60.58	435.09	214.15	6.64
2966.00	42.90	3.09	2881.33	244.72	380.59	57.26	452.48	245.12	6.83
3013.00	46.42	3.00	2914.75	277.70	382.34	54.01	472.55	278.10	7.49
3061.00	50.20	2.30	2946.67	313.50	383.99	50.77	495.72	313.90	7.95
3108.00	54.11	2.30	2975.50	350.58	385.48	47.71	521.06	350.98	8.32
3155.00	57.71	1.77	3001.84	389.47	386.86	44.81	548.95	389.88	7.72
3202.00	59.16	1.95	3026.44	429.50	388.16	42.11	578.91	429.90	3.10
3249.00	59.65	1.86	3050.36	469.93	389.51	39.65	610.37	470.34	1.06
3296.00	60.09	2.21	3073.96	510.55	390.95	37.44	643.05	510.96	1.14
3344.00	60.62	2.65	3097.70	552.23	392.72	35.42	677.64	552.65	1.36
3438.00	63.16	1.07	3141.99	635.09	395.40	31.91	748.12	635.51	3.08
3485.00	67.16	359.66	3161.73	677.73	395.66	30.28	784.77	678.15	8.94
3533.00	71.60	359.13	3178.63	722.64	395.18	28.67	823.64	723.06	9.31
3580.00	76.09	358.25	3191.70	767.76	394.15	27.17	863.03	768.18	9.72
3627.00	79.65	357.90	3201.57	813.68	392.60	25.76	903.45	814.09	7.61
3674.00	83.43	358.25	3208.49	860.14	391.04	24.45	944.85	860.54	8.08

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
3722.00	87.38	358.25	3212.33	907.95	389.58	23.22	988.00	908.36	8.23
3769.00	89.23	358.52	3213.72	954.91	388.26	22.13	1030.82	955.31	3.98
3817.00	90.29	358.08	3213.92	1002.89	386.83	21.09	1074.90	1003.29	2.39
3911.00	89.58	358.96	3214.03	1096.85	384.41	19.31	1162.26	1097.25	1.20
4006.00	90.59	359.22	3213.89	1191.84	382.90	17.81	1251.84	1192.24	1.10
4101.00	89.63	0.45	3213.71	1286.84	382.62	16.56	1342.52	1287.24	1.64
4196.00	90.24	1.33	3213.81	1381.82	384.10	15.53	1434.21	1382.22	1.13
4317.00	89.36	1.33	3214.24	1502.79	386.91	14.44	1551.80	1503.19	0.73
4411.00	90.20	1.95	3214.60	1596.75	389.60	13.71	1643.59	1597.16	1.11
4506.00	89.45	0.80	3214.89	1691.72	391.88	13.04	1736.51	1692.13	1.45
4601.00	89.98	359.92	3215.36	1786.71	392.47	12.39	1829.31	1787.12	1.08
4695.00	90.37	359.22	3215.07	1880.71	391.77	11.77	1921.08	1881.12	0.85
4790.00	89.85	358.17	3214.89	1975.68	389.61	11.16	2013.73	1976.09	1.23
4885.00	90.59	358.52	3214.53	2070.64	386.86	10.58	2106.47	2071.05	0.86
4979.00	90.77	358.61	3213.41	2164.61	384.51	10.07	2198.49	2165.01	0.21
5074.00	89.85	359.57	3212.90	2259.59	383.00	9.62	2291.82	2259.99	1.40
5168.00	90.55	0.45	3212.57	2353.59	383.02	9.24	2384.55	2353.99	1.20
5263.00	89.05	0.63	3212.90	2448.58	383.91	8.91	2478.49	2448.98	1.59
5358.00	89.76	1.24	3213.89	2543.56	385.46	8.62	2572.60	2543.96	0.99
5452.00	89.45	0.36	3214.54	2637.55	386.77	8.34	2665.76	2637.95	0.99
5547.00	90.24	0.28	3214.79	2732.55	387.30	8.07	2759.86	2732.95	0.84
5641.00	91.16	0.89	3213.64	2826.53	388.26	7.82	2853.08	2826.94	1.17
5736.00	89.76	0.01	3212.88	2921.52	389.01	7.58	2947.31	2921.93	1.74
5830.00	90.33	0.19	3212.81	3015.52	389.17	7.35	3040.53	3015.93	0.64
5924.00	90.11	359.40	3212.45	3109.52	388.84	7.13	3133.74	3109.93	0.87
6019.00	90.29	0.19	3212.11	3204.52	388.50	6.91	3227.98	3204.92	0.85
6113.00	91.74	0.89	3210.45	3298.50	389.38	6.73	3321.40	3298.90	1.71
6207.00	93.89	2.56	3205.83	3392.33	392.21	6.60	3414.93	3392.74	2.89
6298.00	93.36	1.86	3200.08	3483.08	395.71	6.48	3505.49	3483.50	0.96
6390.00	93.80	0.36	3194.33	3574.88	397.49	6.34	3596.91	3575.30	1.70
6485.00	93.14	358.69	3188.58	3669.70	396.70	6.17	3691.08	3670.11	1.89
6530.00	92.84	359.22	3186.24	3714.63	395.88	6.08	3735.67	3715.05	1.35
6576.00	90.77	359.66	3184.79	3760.60	395.43	6.00	3781.34	3761.02	4.60
6621.00	90.64	359.57	3184.23	3805.60	395.13	5.93	3826.06	3806.01	0.35
6667.00	88.09	359.48	3184.74	3851.59	394.75	5.85	3871.77	3852.00	5.55
6712.00	88.04	359.40	3186.26	3896.56	394.31	5.78	3916.46	3896.98	0.21
6757.00	87.03	358.25	3188.20	3941.51	393.39	5.70	3961.09	3941.92	3.40

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
6803.00	87.60	358.25	3190.35	3987.44	391.99	5.61	4006.66	3987.85	1.24
6849.00	87.91	358.69	3192.16	4033.39	390.76	5.53	4052.27	4033.80	1.17
6940.00	88.09	0.10	3195.33	4124.33	389.80	5.40	4142.70	4124.73	1.56
7030.00	87.52	359.05	3198.78	4214.26	389.13	5.28	4232.18	4214.66	1.33
7121.00	87.78	359.40	3202.51	4305.17	387.90	5.15	4322.61	4305.57	0.48
7212.00	88.26	359.66	3205.65	4396.11	387.15	5.03	4413.13	4396.52	0.60
7303.00	88.79	359.92	3208.00	4487.08	386.82	4.93	4503.72	4487.48	0.65
7394.00	87.74	359.66	3210.75	4578.04	386.49	4.83	4594.32	4578.44	1.19
7485.00	87.82	359.92	3214.28	4668.97	386.15	4.73	4684.91	4669.37	0.30
7576.00	88.84	0.10	3216.93	4759.93	386.17	4.64	4775.57	4760.33	1.14
7667.00	89.63	0.45	3218.14	4850.92	386.61	4.56	4866.30	4851.32	0.95
7761.00	90.24	0.63	3218.25	4944.91	387.49	4.48	4960.07	4945.32	0.68
7856.00	90.11	359.57	3217.96	5039.91	387.66	4.40	5054.80	5040.32	1.12
7951.00	89.80	359.13	3218.04	5134.91	386.58	4.31	5149.44	5135.31	0.57
8046.00	88.44	358.96	3219.49	5229.88	385.00	4.21	5244.03	5230.28	1.44
8140.00	88.53	359.48	3221.98	5323.84	383.72	4.12	5337.65	5324.24	0.56
8235.00	90.02	0.63	3223.18	5418.82	383.81	4.05	5432.40	5419.22	1.98
8329.00	90.29	1.77	3222.93	5512.80	385.78	4.00	5526.28	5513.20	1.25
8423.00	88.97	0.80	3223.53	5606.77	387.89	3.96	5620.17	5607.18	1.74
8518.00	89.67	0.54	3224.66	5701.76	389.00	3.90	5715.01	5702.16	0.79
8612.00	90.46	0.10	3224.55	5795.76	389.52	3.84	5808.83	5796.16	0.96
8707.00	90.51	0.45	3223.75	5890.75	389.98	3.79	5903.65	5891.16	0.37
8801.00	90.29	0.01	3223.09	5984.75	390.36	3.73	5997.47	5985.15	0.52
8810.00	90.37	359.92	3223.04	5993.75	390.35	3.73	6006.45	5994.15	1.34

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8860.00	90.37	359.92	3222.72	6043.75	390.28	3.69	6056.34	6044.15	0.00