

District I1625 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 Road, 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

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-101
Revised July 18, 2013☐ AMENDED REPORT

SWD-2246

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address V-F Petroleum Inc. P. O. Box 1889 Midland TX 79702 (432) 683-3344		² OGRID Number 24010
		³ API Number 30-015-30366
⁴ Property Code	⁵ Property Name Guerrero 34 State	⁶ Well No. 1

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	34	18 S	28 E		990	S	329	W	Eddy

⁸ Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	34	18 S	28 E		990	S	480	W	Eddy

⁹ Pool Information

Pool Name	Pool Code
SWD; Devonian	96101

¹¹ Work Type E & D	¹² Well Type S	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3566'
¹⁶ Multiple N	¹⁷ Proposed Depth 14000' TVD & 14006' MD	¹⁸ Formation Devonian	¹⁹ Contractor to be determined	²⁰ Spud Date Nov. 1, 2020
Depth to Ground water 145' in CP 00478		Distance from nearest fresh water well 1.66 mi. northeast of CP 00478		Distance to nearest surface water ≈450' south of drainage

A closed-loop system will be used instead of lined pits.

²¹ Proposed Casing and Cement Program

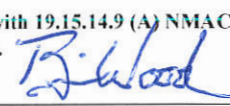
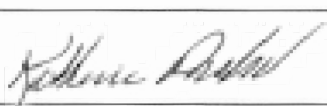
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5"	13.375"	48 / J-55	GL - 453'	450	GL
Intermed.	12.25"	9.625"	36 / J-55	GL - 2951'	1150	GL
Production	8.75"	7"	26# & 23# / P-110	GL - 10200'	170	9290'
Liner	8.75"	7"	26# / P-110	7482' - 12100'	1120	GL
Open Hole	6.125"	N/A	N/A	12100' - 14000'	N/A	N/A

Casing/Cement Program: Additional Comments

Drill out plugs with fresh water. Drill new hole with water based cut brine.
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²² Proposed Blowout Prevention Program

Type	Working Pressure (psi)	Test Pressure (psi)	Manufacturer
ram	5000	5000	to be determined

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ , if applicable. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Brian Wood		Approved By: 	
Title: Consultant		Title: District III Geologist	
E-mail Address: brian@permitswest.com		Approved Date: 11/3/2020 Expiration Date:	
Date: 10-26-20	Phone: 505 466-8120	Conditions of Approval Attached the operator must adhere to the tubing and packer details supplied in the SWD permit	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

XAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-30366	Pool Code 96101	Pool Name SWD; Devonian
Property Code	Property Name GUERRERO 34 STATE	Well Number 1
OGRID No. 24010	Operator Name V-F PETROLEUM INC.	Elevation 3566'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	34	18-S	28-E		990	SOUTH	329.4	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
M	34	18-S	28-E		990	SOUTH	480	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No. SWD-2246
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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

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 618248.4 N
X= 549996.1 E
LAT.=32.699558° N
LONG.=104.170807° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 618310.8 N
X= 591175.6 E
LAT.=32.699674° N
LONG.=104.171317° W

GEODETIC COORDINATES
NAD 27 NME
BOTTOM HOLE LOCATION
Y= 618250.4 N
X= 550146.7 E
LAT.=32.699563° N
LONG.=104.170317° W

GEODETIC COORDINATES
NAD 83 NME
BOTTOM HOLE LOCATION
Y= 618312.8 N
X= 591326.2 E
LAT.=32.699679° N
LONG.=104.170827° W

CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 618575.9 N, X= 549666.6 E
B - Y= 618593.2 N, X= 550963.2 E
C - Y= 617271.3 N, X= 550962.3 E
D - Y= 617254.3 N, X= 549667.6 E

CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 618638.3 N, X= 590846.1 E
B - Y= 618655.6 N, X= 592142.7 E
C - Y= 617333.7 N, X= 592141.8 E
D - Y= 617316.7 N, X= 590847.1 E

GRID AZ.=89°13'28"
HORIZ. DIST.=150.7"

480'
329.4'
S.L.
B.H.
990'
990'

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: E. J. G. G. G. Date: 4/26/2019

Printed Name
eric@vfpetroleum.com

E-mail 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 of Survey APRIL 8, 2019
Signature & Seal of Professional Supervisor: 3239

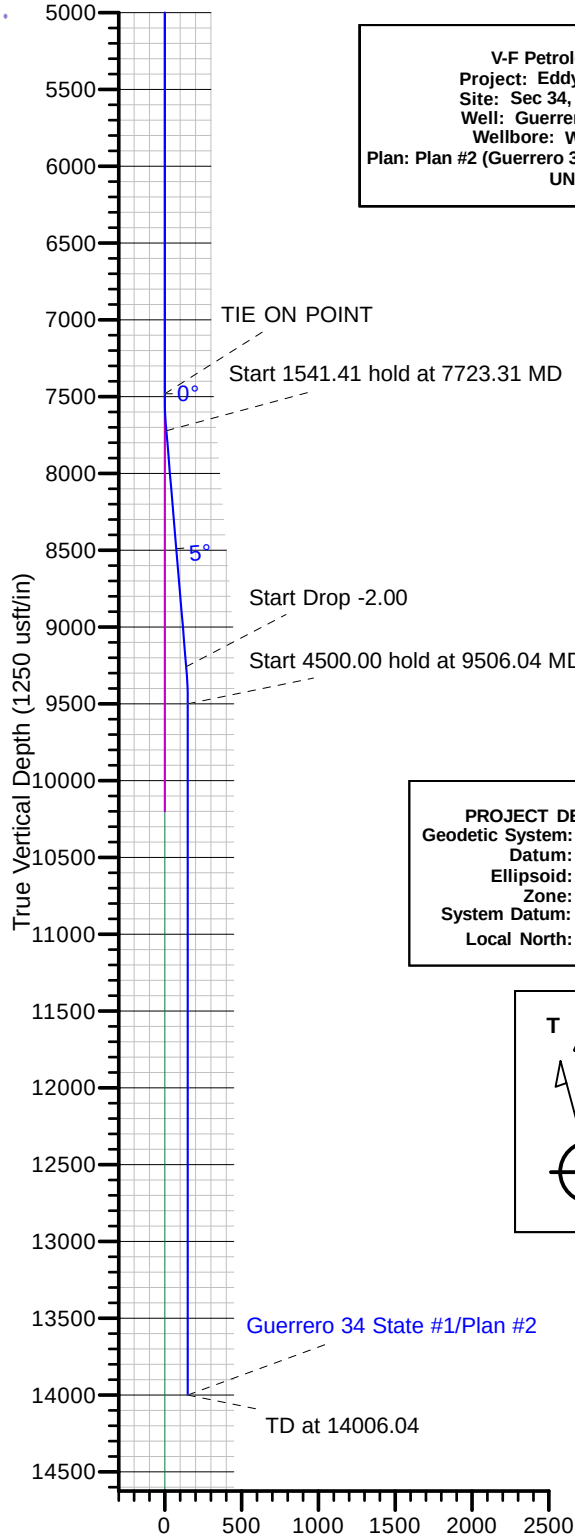
Certificate Number		Gary G. Eldson	12641
		Ronald J. Eldson	3239
LSL	JWSC W.O.: 1911 0538		

V-F Petroleum Inc.
Project: Eddy County,NM
Site: Sec 34, T18S, R-28-E
Well: Guerrero 34 State #1
Wellbore: Wellbore #2
Plan: Plan #2 (Guerrero 34 State #1/Wellbore #2)
UNK

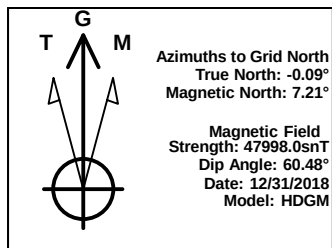
WELL DETAILS: Guerrero 34 State #1

Ground Elevation:: 3553.00
RKB Elevation: KB=18' @ 3571.00usft (UNK)
Rig Name: UNK

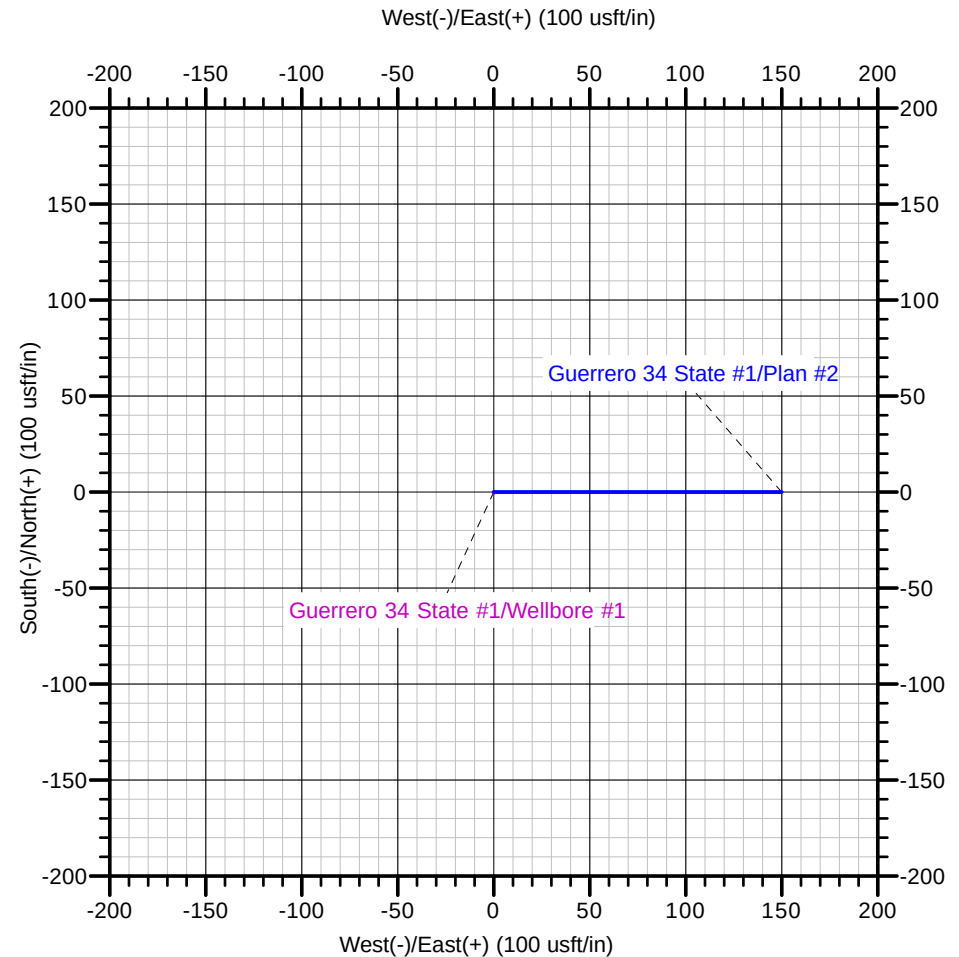
Northing 618318.63 Easting 591177.55 Latitude 32.69970 Longitude -104.17131



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
Local North: Grid



SECTION DETAILS											Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	7482.00	0.00	0.00	7482.00	0.00	0.00	0.00	0.00	0.00		TIE ON POINT
2	7723.31	4.83	90.00	7723.03	0.00	10.16	2.00	90.00	10.16		Start 1541.41 hold at 7723.31 MD
3	9264.72	4.83	90.00	9258.97	0.00	139.84	0.00	0.00	139.84		Start Drop -2.00
4	9506.04	0.00	0.00	9500.00	0.00	150.00	2.00	180.00	150.00		Start 4500.00 hold at 9506.04 MD
5	14006.04	0.00	0.00	14000.00	0.00	150.00	0.00	0.00	150.00		TD at 14006.04



Survey Report



Company:	V-F Petroleum Inc.	Local Co-ordinate Reference:	Well Guerrero 34 State #1
Project:	Eddy County,NM	TVD Reference:	KB=18' @ 3571.00usft (UNK)
Site:	Sec 34, T18S, R-28-E	MD Reference:	KB=18' @ 3571.00usft (UNK)
Well:	Guerrero 34 State #1	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1

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	Sec 34, T18S, R-28-E				
Site Position:		Northing:	618,318.63 usft	Latitude:	32.69970
From:	Lat/Long	Easting:	591,177.55 usft	Longitude:	-104.17131
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.09 °

Well	Guerrero 34 State #1					
Well Position	+N/-S	0.00 usft	Northing:	618,318.63 usft	Latitude:	32.69970
	+E/-W	0.00 usft	Easting:	591,177.55 usft	Longitude:	-104.17131
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,553.00 usft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/31/2018	7.30	60.48	47,998

Design	Plan #2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	7,482.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.00	

Survey Tool Program	Date	1/30/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
10,200.00	7,482.00	Original Wellbore#1 (Wellbore #1)	MWD	Fixed:v2:standard declination	
7,482.00	14,006.04	Plan #2 (Wellbore #2)	MWD	Fixed:v2:standard declination	

Planned 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)
7,482.00	0.00	0.00	7,482.00	0.00	0.00	0.00	0.00	0.00	0.00
TIE ON POINT									
7,500.00	0.36	90.00	7,500.00	0.00	0.06	0.06	2.00	2.00	0.00
7,600.00	2.36	90.00	7,599.97	0.00	2.43	2.43	2.00	2.00	0.00
7,700.00	4.36	90.00	7,699.79	0.00	8.29	8.29	2.00	2.00	0.00
7,723.31	4.83	90.00	7,723.03	0.00	10.16	10.16	2.00	2.00	0.00
Start 1541.41 hold at 7723.31 MD									
7,800.00	4.83	90.00	7,799.44	0.00	16.61	16.61	0.00	0.00	0.00
7,900.00	4.83	90.00	7,899.09	0.00	25.02	25.02	0.00	0.00	0.00

Survey Report



Company:	V-F Petroleum Inc.	Local Co-ordinate Reference:	Well Guerrero 34 State #1
Project:	Eddy County,NM	TVD Reference:	KB=18' @ 3571.00usft (UNK)
Site:	Sec 34, T18S, R-28-E	MD Reference:	KB=18' @ 3571.00usft (UNK)
Well:	Guerrero 34 State #1	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1

Planned 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)
8,000.00	4.83	90.00	7,998.73	0.00	33.44	33.44	0.00	0.00	0.00
8,100.00	4.83	90.00	8,098.38	0.00	41.85	41.85	0.00	0.00	0.00
8,200.00	4.83	90.00	8,198.02	0.00	50.26	50.26	0.00	0.00	0.00
8,300.00	4.83	90.00	8,297.67	0.00	58.68	58.68	0.00	0.00	0.00
8,400.00	4.83	90.00	8,397.32	0.00	67.09	67.09	0.00	0.00	0.00
8,500.00	4.83	90.00	8,496.96	0.00	75.50	75.50	0.00	0.00	0.00
8,600.00	4.83	90.00	8,596.61	0.00	83.92	83.92	0.00	0.00	0.00
8,700.00	4.83	90.00	8,696.25	0.00	92.33	92.33	0.00	0.00	0.00
8,800.00	4.83	90.00	8,795.90	0.00	100.74	100.74	0.00	0.00	0.00
8,900.00	4.83	90.00	8,895.54	0.00	109.16	109.16	0.00	0.00	0.00
9,000.00	4.83	90.00	8,995.19	0.00	117.57	117.57	0.00	0.00	0.00
9,100.00	4.83	90.00	9,094.83	0.00	125.98	125.98	0.00	0.00	0.00
9,200.00	4.83	90.00	9,194.48	0.00	134.40	134.40	0.00	0.00	0.00
9,264.72	4.83	90.00	9,258.97	0.00	139.84	139.84	0.00	0.00	0.00
Start Drop -2.00									
9,300.00	4.12	90.00	9,294.14	0.00	142.59	142.59	2.00	-2.00	0.00
9,400.00	2.12	90.00	9,393.99	0.00	148.04	148.04	2.00	-2.00	0.00
9,500.00	0.12	90.00	9,493.96	0.00	149.99	149.99	2.00	-2.00	0.00
9,506.04	0.00	0.00	9,500.00	0.00	150.00	150.00	2.00	-2.00	0.00
Start 4500.00 hold at 9506.04 MD									
9,600.00	0.00	0.00	9,593.96	0.00	150.00	150.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,693.96	0.00	150.00	150.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,793.96	0.00	150.00	150.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,893.96	0.00	150.00	150.00	0.00	0.00	0.00
10,000.00	0.00	0.00	9,993.96	0.00	150.00	150.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,093.96	0.00	150.00	150.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,193.96	0.00	150.00	150.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,293.96	0.00	150.00	150.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,393.96	0.00	150.00	150.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,493.96	0.00	150.00	150.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,593.96	0.00	150.00	150.00	0.00	0.00	0.00
10,700.00	0.00	0.00	10,693.96	0.00	150.00	150.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,793.96	0.00	150.00	150.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,893.96	0.00	150.00	150.00	0.00	0.00	0.00
11,000.00	0.00	0.00	10,993.96	0.00	150.00	150.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,093.96	0.00	150.00	150.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,193.96	0.00	150.00	150.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,293.96	0.00	150.00	150.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,393.96	0.00	150.00	150.00	0.00	0.00	0.00
11,500.00	0.00	0.00	11,493.96	0.00	150.00	150.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,593.96	0.00	150.00	150.00	0.00	0.00	0.00
11,700.00	0.00	0.00	11,693.96	0.00	150.00	150.00	0.00	0.00	0.00
11,800.00	0.00	0.00	11,793.96	0.00	150.00	150.00	0.00	0.00	0.00
11,900.00	0.00	0.00	11,893.96	0.00	150.00	150.00	0.00	0.00	0.00

Survey Report



Company:	V-F Petroleum Inc.	Local Co-ordinate Reference:	Well Guerrero 34 State #1
Project:	Eddy County,NM	TVD Reference:	KB=18' @ 3571.00usft (UNK)
Site:	Sec 34, T18S, R-28-E	MD Reference:	KB=18' @ 3571.00usft (UNK)
Well:	Guerrero 34 State #1	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1

Planned 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)
12,000.00	0.00	0.00	11,993.96	0.00	150.00	150.00	0.00	0.00	0.00
12,100.00	0.00	0.00	12,093.96	0.00	150.00	150.00	0.00	0.00	0.00
12,200.00	0.00	0.00	12,193.96	0.00	150.00	150.00	0.00	0.00	0.00
12,300.00	0.00	0.00	12,293.96	0.00	150.00	150.00	0.00	0.00	0.00
12,400.00	0.00	0.00	12,393.96	0.00	150.00	150.00	0.00	0.00	0.00
12,500.00	0.00	0.00	12,493.96	0.00	150.00	150.00	0.00	0.00	0.00
12,600.00	0.00	0.00	12,593.96	0.00	150.00	150.00	0.00	0.00	0.00
12,700.00	0.00	0.00	12,693.96	0.00	150.00	150.00	0.00	0.00	0.00
12,800.00	0.00	0.00	12,793.96	0.00	150.00	150.00	0.00	0.00	0.00
12,900.00	0.00	0.00	12,893.96	0.00	150.00	150.00	0.00	0.00	0.00
13,000.00	0.00	0.00	12,993.96	0.00	150.00	150.00	0.00	0.00	0.00
13,100.00	0.00	0.00	13,093.96	0.00	150.00	150.00	0.00	0.00	0.00
13,200.00	0.00	0.00	13,193.96	0.00	150.00	150.00	0.00	0.00	0.00
13,300.00	0.00	0.00	13,293.96	0.00	150.00	150.00	0.00	0.00	0.00
13,400.00	0.00	0.00	13,393.96	0.00	150.00	150.00	0.00	0.00	0.00
13,500.00	0.00	0.00	13,493.96	0.00	150.00	150.00	0.00	0.00	0.00
13,600.00	0.00	0.00	13,593.96	0.00	150.00	150.00	0.00	0.00	0.00
13,700.00	0.00	0.00	13,693.96	0.00	150.00	150.00	0.00	0.00	0.00
13,800.00	0.00	0.00	13,793.96	0.00	150.00	150.00	0.00	0.00	0.00
13,900.00	0.00	0.00	13,893.96	0.00	150.00	150.00	0.00	0.00	0.00
14,000.00	0.00	0.00	13,993.96	0.00	150.00	150.00	0.00	0.00	0.00
14,006.04	0.00	0.00	14,000.00	0.00	150.00	150.00	0.00	0.00	0.00
TD at 14006.04									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7482	7482	0	0	TIE ON POINT
7723	7723	0	10	Start 1541.41 hold at 7723.31 MD
9265	9259	0	140	Start Drop -2.00
9506	9500	0	150	Start 4500.00 hold at 9506.04 MD
14,006	14,000	0	150	TD at 14006.04

Checked By: _____ Approved By: _____ Date: _____