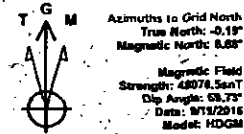


Project: Eddy County, New Mexico (NAD83)
 Site: Littlefield 34 Federal Com
 Well: 1H
 Wellbore: OH
 Design: Plan 1 09-20-16
 Rig:



CL + K2 @ 2904.00asl
 Ground Level: 2904.00

KOP1: Begin 2.00°/100' Build
 Hold 3.34° Inc at 229.72° Azm

1200
1600
2000
2400
2800
3200
3600
4000
4400
4800
5200
5600
6000
6400
6800
7200
7600
8000
8400
8800
9200
9600
10000
10400

True Vertical Depth (400 usf/in)

Vertical Section at 357.24° (400 usf/in)

FTP - Littlefield 34 Federal COM 1H

BHL - Littlefield 34 Federal COM 1H

TD at 16890.68

Hold 1.39° Azm

LP: Hold 90.00° Inc. Begin 2.00°/100' Turn

KOP2: Begin 12.00°/100' Build

Begin Vertical Hold

Begin 2.00°/100' Drop

Vertical Section at 357.24° (400 usf/in)

FTP - Littlefield 34 Federal COM 1H

BHL - Littlefield 34 Federal COM 1H

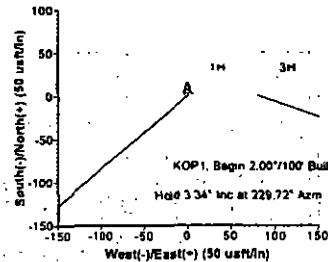
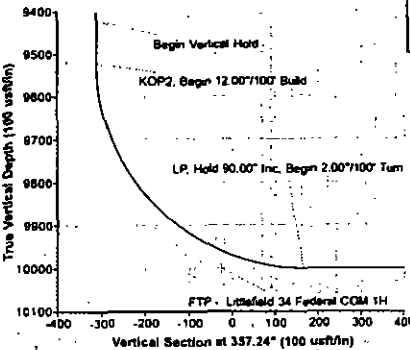
TD at 16890.68

WELL DETAILS					
		Ground Level:	2904.00	Latitude	Longitude
-N-S	-E-W	Northing	Easting		
0.00	0.00	364347.00	652895.40	32° 0' 4.17432 N	103° 58' 24.42649 W

DESIGN TARGET DETAILS					
Name	TVD	-N-S	-E-W	Northing	Easting
BHL - Littlefield 34 Federal COM 1H	10000.00	6743.60	-325.50	371090.60	652920.90
FTP - Littlefield 34 Federal COM 1H	10000.00	-59.40	-489.80	364296.80	652425.80
				32° 0' 10.92108 N	103° 58' 27.94658 W
				32° 0' 3.69183 N	103° 58' 30.11861 W

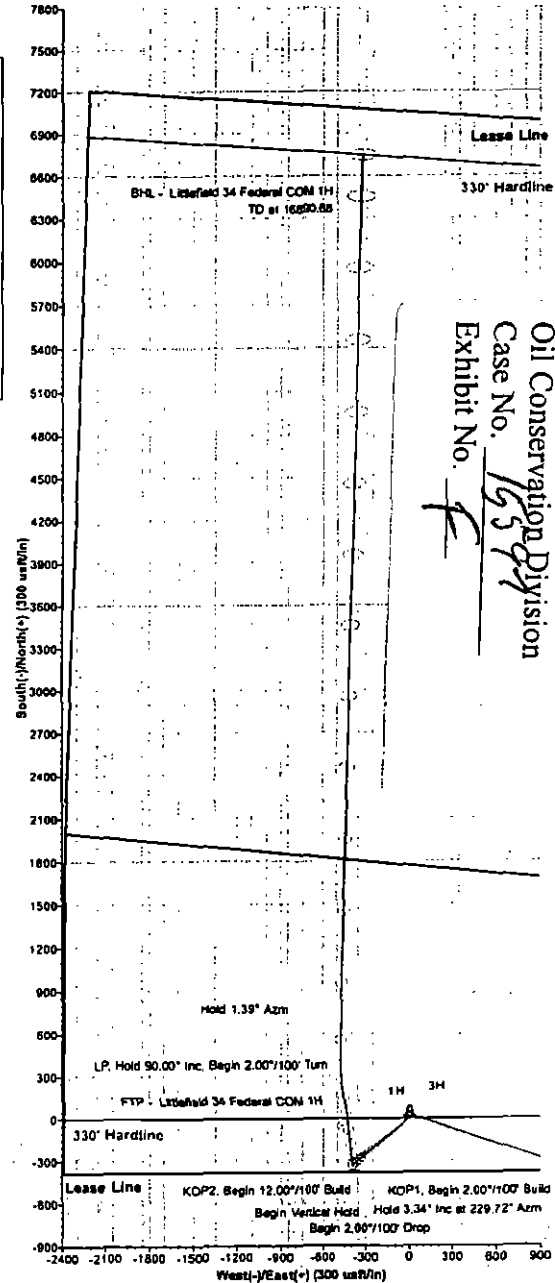
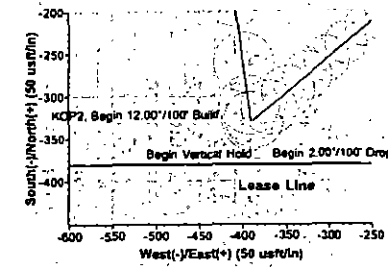
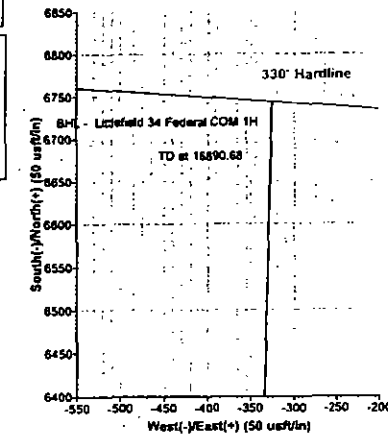
SECTION DETAILS											
Sec	MD	Inc	Adj	TVD	-N-S	-E-W	Dleg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP1: Begin 2.00°/100' Build
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	Hold 3.34° Inc at 229.72° Azm
3	888.98	1.34	229.72	888.65	-3.18	-3.71	2.00	229.72	-2.98	0.00	Begin 2.00°/100' Drop
4	9270.38	3.34	229.72	9255.65	-327.15	-389.08	0.00	0.00	-308.16	0.00	Begin Vertical Hold
5	9437.34	0.00	0.00	9422.54	-330.33	-389.80	2.00	180.00	-311.12	0.00	KOP2: Begin 12.00°/100' Build
6	9537.34	0.00	0.00	9522.54	-330.36	-389.80	0.00	0.00	-311.12	0.00	LP: Hold 90.00° Inc. Begin 2.00°/100' Turn
7	10287.34	90.00	352.55	10000.00	142.13	-451.71	12.00	352.55	184.75	0.00	Hold 1.39° Azm
8	10729.34	80.00	1.39	10000.00	584.12	-475.05	2.00	90.00	606.34	0.00	
9	16890.68	90.00	1.39	10000.00	6743.60	-325.50	0.00	0.00	6791.45	0.00	BHL - Littlefield 34 Federal COM 1H TD at 16890.68

FORMATION TOP DETAILS	
No formation data is available	



Map System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone Name: New Mexico Eastern Zone
 Local Origin: Well 1H, Grid North
 Latitude: 32° 0' 4.17432 N
 Longitude: 103° 58' 24.42649 W
 Grid East: 652895.40
 Grid North: 364347.00
 Scale Factor: 1.000
 Geomagnetic Model: HDGM
 Sample Date: 18-Sep-16
 Magnetic Declination: 7.07°
 Dip Angle from Horizontal: 58.73°
 Magnetic Field Strength: 48071
 To convert a Magnetic Direction to a Grid Direction, Add 0.66°
 To convert a Magnetic Direction to a True Direction, Add 7.07° East
 To convert a True Direction to a Grid Direction, Subtract 0.19°

LEGEND
 — 3H, OH, Plan 1 09-20-16 VD
 — Plan 1 09-20-16



Oil Conservation Division
 Case No. 1654
 Exhibit No. F