



Project: Lea County, NM (NAD83 NME)
Site: Angus State 24-35 16
Well: 452H
Wellbore: OH
Design: Plan 1 01-17-18
Rig: Cactus 123



Azimuths to Grid North
True North: -0.51°
Magnetic North: 6.29°
Magnetic Field
Strength: 48021.4snT
Dip Angle: 59.93°
Date: 1/17/2018
Model: HDGM

GL+KB @ 3419.00usft (Cactus 123)

Ground Level: 3389.00

WELL DETAILS

+N-S	+E-W	Northing	Ground Level	Easting	Latitude	Longitude
0.00	0.00	446533.50	3389.00	837769.10	32° 13' 28.26286 N	103° 22' 29.09114 W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
BHL - Angus State 24-35 16 452H	12010.00	-4653.50	-236.00	441880.00	837533.10	32° 12' 40.23875 N	103° 22' 32.32095 W
FTP - Angus State 24-35 16 452H	12010.00	-502.50	-275.30	446031.00	837493.80	32° 13' 21.31507 N	103° 22' 32.34780 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		KOP, Begin 2.00°/100' Build
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00		Hold 6.00° Inc
3	2299.97	6.00	269.46	2299.42	-0.15	-15.69	2.00	269.46	0.00		Begin 2.00°/100' Drop
4	4679.16	6.00	269.46	4665.58	-2.50	-264.34	0.00	0.00	0.01		Begin Vertical Hold
5	4979.13	0.00	0.00	4965.00	-2.65	-280.03	2.00	180.00	0.01		KOP2, Begin 10.00°/100' Build
6	11451.17	0.00	0.00	11437.04	-2.65	-280.03	0.00	0.00	0.01		LP, Hold 90.00° Inc at 179.46° Azm
7	12351.17	90.00	179.46	12010.00	-575.58	-274.61	10.00	179.46	572.97		
8	16429.27	90.00	179.46	12010.00	-4653.50	-236.00	0.00	0.00	4651.07		BHL - Angus State 24-35 16 452H TD at 16429.27

CASING DETAILS

No casing data is available

LEGEND

- 451H, OH, Plan 1 01-17-18 V0
- 601H, OH, Plan 1 01-17-18 V0
- 602H, OH, Plan 1 01-17-18 V0
- Plan 1 01-17-18

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Well 452H, Grid North

Latitude: 32° 13' 26.26286 N
Longitude: 103° 22' 29.09114 W

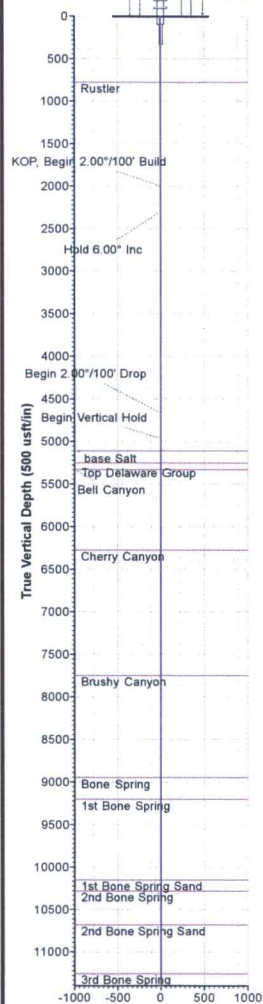
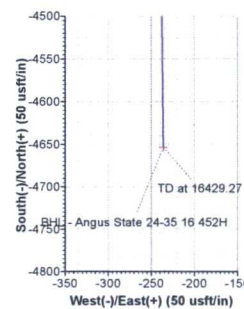
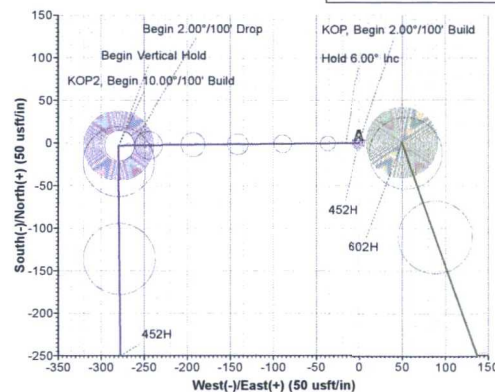
Grid East: 837769.10
Grid North: 446533.50
Scale Factor: 1.000

Geomagnetic Model: HDGM
Sample Date: 17-Jan-18
Magnetic Declination: 6.80°
Dip Angle from Horizontal: 59.93°
Magnetic Field Strength: 48021

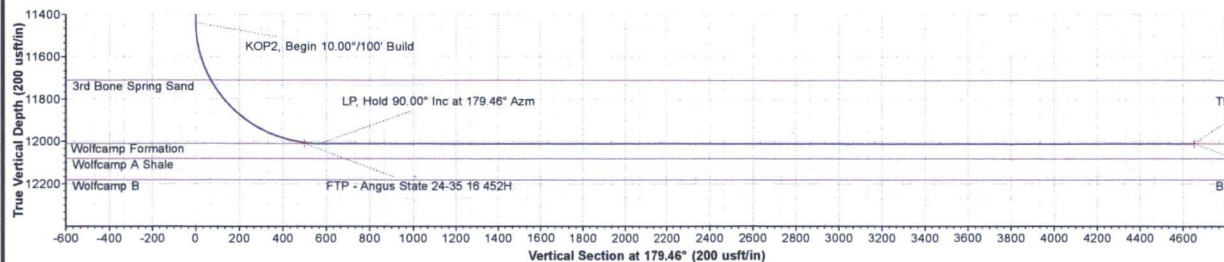
To convert a Magnetic Direction to a Grid Direction, Add 6.29°
To convert a Magnetic Direction to a True Direction, Add 6.80° East
To convert a True Direction to a Grid Direction, Subtract 0.51°

FORMATION TOP DETAILS

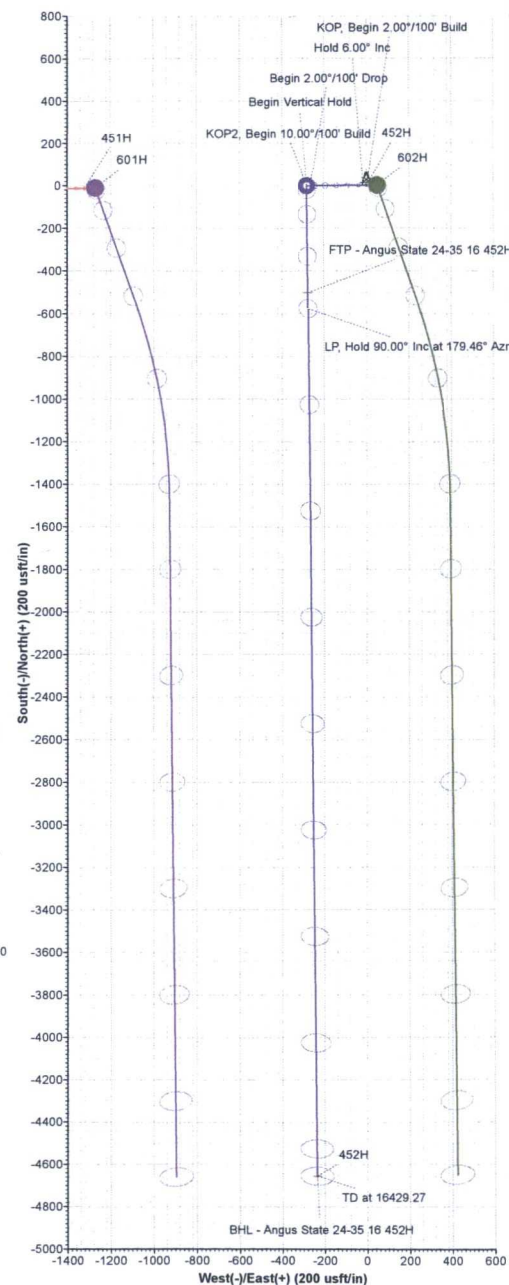
TVDPath	MDPath	Formation	DipAngle	DipDir
780.00	780.00	Rustler		
5110.00	5124.13	base Salt		
5250.00	5264.13	Top Delaware Group		
5330.00	5344.13	Bell Canyon		
6275.00	6289.13	Cherry Canyon		
7750.00	7764.13	Brushy Canyon		
8950.00	8964.13	Bone Spring		
9205.00	9219.13	1st Bone Spring		
10150.00	10164.13	1st Bone Spring Sand		
10280.00	10294.13	2nd Bone Spring		
10680.00	10694.13	2nd Bone Spring Sand		
11255.00	11269.13	3rd Bone Spring		
11710.00	11735.67	3rd Bone Spring Sand		
12010.00	12351.17	Wolfcamp Formation		



Vertical Section at 179.46° (500 usft/in)



Vertical Section at 179.46° (200 usft/in)





Energen Resources

Lea County, NM (NAD83 NME)

Angus State 24-35 16

452H

OH

Plan: Plan 1 01-17-18

Standard Planning Report

17 January, 2018

HOBBS OCD
JAN 18 2018
RECEIVED



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 452H
Company:	Energen Resources	TVD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Site:	Angus State 24-35 16	North Reference:	Grid
Well:	452H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 01-17-18		

Project	Lea County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Angus State 24-35 16		
Site Position:		Northing:	446,521.50 usft
From:	Map	Easting:	836,449.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 26.26039 N
		Longitude:	103° 22' 44.45733 W
		Grid Convergence:	0.51 °

Well	452H		
Well Position	+N/-S	12.00 usft	Northing:
	+E/-W	1,320.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 13' 26.26286 N
		Longitude:	103° 22' 29.09114 W
		Ground Level:	3,389.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/17/2018	6.80	59.93	48,021

Design	Plan 1 01-17-18			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.46

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,299.97	6.00	269.46	2,299.42	-0.15	-15.69	2.00	2.00	0.00	269.46	
4,679.16	6.00	269.46	4,665.58	-2.50	-264.34	0.00	0.00	0.00	0.00	
4,979.13	0.00	0.00	4,965.00	-2.65	-280.03	2.00	-2.00	0.00	180.00	
11,451.17	0.00	0.00	11,437.04	-2.65	-280.03	0.00	0.00	0.00	0.00	
12,351.17	90.00	179.46	12,010.00	-575.58	-274.61	10.00	10.00	19.94	179.46	
16,429.27	90.00	179.46	12,010.00	-4,653.50	-236.00	0.00	0.00	0.00	0.00	BHL - Angus State

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 452H
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Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Site:	Angus State 24-35 16	North Reference:	Grid
Well:	452H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 01-17-18		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
780.00	0.00	0.00	780.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
2,100.00	2.00	269.46	2,099.98	-0.02	-1.75	0.00	2.00	2.00	0.00
2,200.00	4.00	269.46	2,199.84	-0.07	-6.98	0.00	2.00	2.00	0.00
2,299.97	6.00	269.46	2,299.42	-0.15	-15.69	0.00	2.00	2.00	0.00
Hold 6.00° Inc									
2,300.00	6.00	269.46	2,299.45	-0.15	-15.69	0.00	0.00	0.00	0.00
2,400.00	6.00	269.46	2,398.90	-0.25	-26.14	0.00	0.00	0.00	0.00
2,500.00	6.00	269.46	2,498.36	-0.35	-36.60	0.00	0.00	0.00	0.00
2,600.00	6.00	269.46	2,597.81	-0.45	-47.05	0.00	0.00	0.00	0.00
2,700.00	6.00	269.46	2,697.26	-0.54	-57.50	0.00	0.00	0.00	0.00
2,800.00	6.00	269.46	2,796.71	-0.64	-67.95	0.00	0.00	0.00	0.00
2,900.00	6.00	269.46	2,896.17	-0.74	-78.40	0.00	0.00	0.00	0.00
3,000.00	6.00	269.46	2,995.62	-0.84	-88.85	0.00	0.00	0.00	0.00
3,100.00	6.00	269.46	3,095.07	-0.94	-99.30	0.00	0.00	0.00	0.00
3,200.00	6.00	269.46	3,194.52	-1.04	-109.75	0.00	0.00	0.00	0.00
3,300.00	6.00	269.46	3,293.98	-1.14	-120.20	0.01	0.00	0.00	0.00
3,400.00	6.00	269.46	3,393.43	-1.24	-130.66	0.01	0.00	0.00	0.00
3,500.00	6.00	269.46	3,492.88	-1.34	-141.11	0.01	0.00	0.00	0.00
3,600.00	6.00	269.46	3,592.33	-1.43	-151.56	0.01	0.00	0.00	0.00
3,700.00	6.00	269.46	3,691.78	-1.53	-162.01	0.01	0.00	0.00	0.00
3,800.00	6.00	269.46	3,791.24	-1.63	-172.46	0.01	0.00	0.00	0.00
3,900.00	6.00	269.46	3,890.69	-1.73	-182.91	0.01	0.00	0.00	0.00
4,000.00	6.00	269.46	3,990.14	-1.83	-193.36	0.01	0.00	0.00	0.00
4,100.00	6.00	269.46	4,089.59	-1.93	-203.81	0.01	0.00	0.00	0.00
4,200.00	6.00	269.46	4,189.05	-2.03	-214.27	0.01	0.00	0.00	0.00
4,300.00	6.00	269.46	4,288.50	-2.13	-224.72	0.01	0.00	0.00	0.00
4,400.00	6.00	269.46	4,387.95	-2.23	-235.17	0.01	0.00	0.00	0.00
4,500.00	6.00	269.46	4,487.40	-2.33	-245.62	0.01	0.00	0.00	0.00
4,600.00	6.00	269.46	4,586.86	-2.42	-256.07	0.01	0.00	0.00	0.00
4,679.16	6.00	269.46	4,665.58	-2.50	-264.34	0.01	0.00	0.00	0.00
Begin 2.00°/100' Drop									
4,700.00	5.58	269.46	4,686.32	-2.52	-266.45	0.01	2.00	-2.00	0.00
4,800.00	3.58	269.46	4,785.99	-2.60	-274.43	0.01	2.00	-2.00	0.00
4,900.00	1.58	269.46	4,885.88	-2.64	-278.94	0.01	2.00	-2.00	0.00
4,979.13	0.00	0.00	4,965.00	-2.65	-280.03	0.01	2.00	-2.00	114.43
Begin Vertical Hold									
5,124.13	0.00	0.00	5,110.00	-2.65	-280.03	0.01	0.00	0.00	0.00
base Salt									
5,264.13	0.00	0.00	5,250.00	-2.65	-280.03	0.01	0.00	0.00	0.00
Top Delaware Group									
5,344.13	0.00	0.00	5,330.00	-2.65	-280.03	0.01	0.00	0.00	0.00
Bell Canyon									
6,289.13	0.00	0.00	6,275.00	-2.65	-280.03	0.01	0.00	0.00	0.00
Cherry Canyon									
7,764.13	0.00	0.00	7,750.00	-2.65	-280.03	0.01	0.00	0.00	0.00
Brushy Canyon									
8,964.13	0.00	0.00	8,950.00	-2.65	-280.03	0.01	0.00	0.00	0.00
Bone Spring									
9,219.13	0.00	0.00	9,205.00	-2.65	-280.03	0.01	0.00	0.00	0.00

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 452H
Company:	Energen Resources	TVD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Site:	Angus State 24-35 16	North Reference:	Grid
Well:	452H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 01-17-18		

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)
1st Bone Spring									
10,164.13	0.00	0.00	10,150.00	-2.65	-280.03	0.01	0.00	0.00	0.00
1st Bone Spring Sand									
10,294.13	0.00	0.00	10,280.00	-2.65	-280.03	0.01	0.00	0.00	0.00
2nd Bone Spring									
10,694.13	0.00	0.00	10,680.00	-2.65	-280.03	0.01	0.00	0.00	0.00
2nd Bone Spring Sand									
11,269.13	0.00	0.00	11,255.00	-2.65	-280.03	0.01	0.00	0.00	0.00
3rd Bone Spring									
11,451.17	0.00	0.00	11,437.04	-2.65	-280.03	0.01	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
11,500.00	4.88	179.46	11,485.81	-4.73	-280.01	2.09	10.00	10.00	0.00
11,600.00	14.88	179.46	11,584.21	-21.87	-279.85	19.23	10.00	10.00	0.00
11,700.00	24.88	179.46	11,678.13	-55.84	-279.53	53.20	10.00	10.00	0.00
11,735.68	28.45	179.46	11,710.00	-71.85	-279.38	69.21	10.00	10.00	0.00
3rd Bone Spring Sand									
11,800.00	34.88	179.46	11,764.72	-105.60	-279.06	102.96	10.00	10.00	0.00
11,900.00	44.88	179.46	11,841.36	-169.64	-278.45	167.00	10.00	10.00	0.00
12,000.00	54.88	179.46	11,905.71	-246.01	-277.73	243.38	10.00	10.00	0.00
12,100.00	64.88	179.46	11,955.82	-332.40	-276.91	329.77	10.00	10.00	0.00
12,200.00	74.88	179.46	11,990.17	-426.17	-276.02	423.55	10.00	10.00	0.00
12,300.00	84.88	179.46	12,007.71	-524.49	-275.09	521.87	10.00	10.00	0.00
12,351.17	90.00	179.46	12,010.00	-575.58	-274.61	572.97	10.00	10.00	0.00
LP, Hold 90.00° Inc at 179.46° Azm - Wolfcamp Formation									
12,400.00	90.00	179.46	12,010.00	-624.41	-274.15	621.80	0.00	0.00	0.00
12,500.00	90.00	179.46	12,010.00	-724.41	-273.20	721.80	0.00	0.00	0.00
12,600.00	90.00	179.46	12,010.00	-824.41	-272.25	821.80	0.00	0.00	0.00
12,700.00	90.00	179.46	12,010.00	-924.40	-271.31	921.80	0.00	0.00	0.00
12,800.00	90.00	179.46	12,010.00	-1,024.40	-270.36	1,021.80	0.00	0.00	0.00
12,900.00	90.00	179.46	12,010.00	-1,124.39	-269.41	1,121.80	0.00	0.00	0.00
13,000.00	90.00	179.46	12,010.00	-1,224.39	-268.47	1,221.80	0.00	0.00	0.00
13,100.00	90.00	179.46	12,010.00	-1,324.38	-267.52	1,321.80	0.00	0.00	0.00
13,200.00	90.00	179.46	12,010.00	-1,424.38	-266.57	1,421.80	0.00	0.00	0.00
13,300.00	90.00	179.46	12,010.00	-1,524.37	-265.63	1,521.80	0.00	0.00	0.00
13,400.00	90.00	179.46	12,010.00	-1,624.37	-264.68	1,621.80	0.00	0.00	0.00
13,500.00	90.00	179.46	12,010.00	-1,724.37	-263.73	1,721.80	0.00	0.00	0.00
13,600.00	90.00	179.46	12,010.00	-1,824.36	-262.79	1,821.80	0.00	0.00	0.00
13,700.00	90.00	179.46	12,010.00	-1,924.36	-261.84	1,921.80	0.00	0.00	0.00
13,800.00	90.00	179.46	12,010.00	-2,024.35	-260.89	2,021.80	0.00	0.00	0.00
13,900.00	90.00	179.46	12,010.00	-2,124.35	-259.95	2,121.80	0.00	0.00	0.00
14,000.00	90.00	179.46	12,010.00	-2,224.34	-259.00	2,221.80	0.00	0.00	0.00
14,100.00	90.00	179.46	12,010.00	-2,324.34	-258.05	2,321.80	0.00	0.00	0.00
14,200.00	90.00	179.46	12,010.00	-2,424.33	-257.10	2,421.80	0.00	0.00	0.00
14,300.00	90.00	179.46	12,010.00	-2,524.33	-256.16	2,521.80	0.00	0.00	0.00
14,400.00	90.00	179.46	12,010.00	-2,624.33	-255.21	2,621.80	0.00	0.00	0.00
14,500.00	90.00	179.46	12,010.00	-2,724.32	-254.26	2,721.80	0.00	0.00	0.00
14,600.00	90.00	179.46	12,010.00	-2,824.32	-253.32	2,821.80	0.00	0.00	0.00
14,700.00	90.00	179.46	12,010.00	-2,924.31	-252.37	2,921.80	0.00	0.00	0.00
14,800.00	90.00	179.46	12,010.00	-3,024.31	-251.42	3,021.80	0.00	0.00	0.00
14,900.00	90.00	179.46	12,010.00	-3,124.30	-250.48	3,121.80	0.00	0.00	0.00
15,000.00	90.00	179.46	12,010.00	-3,224.30	-249.53	3,221.80	0.00	0.00	0.00
15,100.00	90.00	179.46	12,010.00	-3,324.29	-248.58	3,321.80	0.00	0.00	0.00
15,200.00	90.00	179.46	12,010.00	-3,424.29	-247.64	3,421.80	0.00	0.00	0.00

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Company:	Energen Resources	TVD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Site:	Angus State 24-35 16	North Reference:	Grid
Well:	452H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 01-17-18		

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)
15,300.00	90.00	179.46	12,010.00	-3,524.29	-246.69	3,521.80	0.00	0.00	0.00
15,400.00	90.00	179.46	12,010.00	-3,624.28	-245.74	3,621.80	0.00	0.00	0.00
15,500.00	90.00	179.46	12,010.00	-3,724.28	-244.80	3,721.80	0.00	0.00	0.00
15,600.00	90.00	179.46	12,010.00	-3,824.27	-243.85	3,821.80	0.00	0.00	0.00
15,700.00	90.00	179.46	12,010.00	-3,924.27	-242.90	3,921.80	0.00	0.00	0.00
15,800.00	90.00	179.46	12,010.00	-4,024.26	-241.96	4,021.80	0.00	0.00	0.00
15,900.00	90.00	179.46	12,010.00	-4,124.26	-241.01	4,121.80	0.00	0.00	0.00
16,000.00	90.00	179.46	12,010.00	-4,224.25	-240.06	4,221.80	0.00	0.00	0.00
16,100.00	90.00	179.46	12,010.00	-4,324.25	-239.12	4,321.80	0.00	0.00	0.00
16,200.00	90.00	179.46	12,010.00	-4,424.24	-238.17	4,421.80	0.00	0.00	0.00
16,300.00	90.00	179.46	12,010.00	-4,524.24	-237.22	4,521.80	0.00	0.00	0.00
16,400.00	90.00	179.46	12,010.00	-4,624.24	-236.28	4,621.80	0.00	0.00	0.00
16,429.27	90.00	179.46	12,010.00	-4,653.50	-236.00	4,651.07	0.00	0.00	0.00
TD at 16429.27									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL - Angus State 24	0.00	0.00	12,010.00	-4,653.50	-236.00	441,880.00	837,533.10	32° 12' 40.23875 N	03° 22' 32.32095 W
- plan hits target center									
- Point									
FTP - Angus State 24	0.00	0.00	12,010.00	-502.50	-275.30	446,031.00	837,493.80	32° 13' 21.31507 N	03° 22' 32.34780 W
- plan misses target center by 4.65usft at 12278.73usft MD (12005.42 TVD, -503.34 N, -275.29 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
780.00	780.00	Rustler			
5,124.13	5,110.00	base Salt			
5,264.13	5,250.00	Top Delaware Group			
5,344.13	5,330.00	Bell Canyon			
6,289.13	6,275.00	Cherry Canyon			
7,764.13	7,750.00	Brushy Canyon			
8,964.13	8,950.00	Bone Spring			
9,219.13	9,205.00	1st Bone Spring			
10,164.13	10,150.00	1st Bone Spring Sand			
10,294.13	10,280.00	2nd Bone Spring			
10,694.13	10,680.00	2nd Bone Spring Sand			
11,269.13	11,255.00	3rd Bone Spring			
11,735.68	11,710.00	3rd Bone Spring Sand			
12,351.17	12,010.00	Wolfcamp Formation			

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 452H
Company:	Energen Resources	TVD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Project:	Lea County, NM (NAD83 NME)	MD Reference:	GL+KB @ 3419.00usft (Cactus 123)
Site:	Angus State 24-35 16	North Reference:	Grid
Well:	452H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 01-17-18		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build
2,299.97	2,299.42	-0.15	-15.69	Hold 6.00° Inc
4,679.16	4,665.58	-2.50	-264.34	Begin 2.00°/100' Drop
4,979.13	4,965.00	-2.65	-280.03	Begin Vertical Hold
11,451.17	11,437.04	-2.65	-280.03	KOP2, Begin 10.00°/100' Build
12,351.17	12,010.00	-575.58	-274.61	LP, Hold 90.00° Inc at 179.46° Azm
16,429.27	12,010.00	-4,653.50	-236.00	TD at 16429.27