



Centennial Resource Development, Inc.

**Lea Co., NM (NAD83)
Raider Federal
Com ~~101H~~**

OH

Plan: Plan #1

Standard Planning Report

31 July, 2018





Project: Lea Co., NM (NAD83)
Site: Raider Federal
Well: Com 101H
Wellbore: OH
Design: Plan #1
Lat: 32.209195
Long: -103.468499
GL: 3531.00
KB: KB=25' @ 3556.00usf (H&P 650)



WELL DETAILS: Com 101H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	440915.20	808819.70	32.209195	-103.468499

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Raider Fed Com 101H	9350.00	-4776.19	327.98	436141.80	809186.10	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeal	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	Build 1"/100'
3556.33	5.56	77.95	3555.46	5.63	26.39	1.00	77.95	-3.81	2902' Hold
6459.09	5.56	77.95	6444.54	64.37	301.61	0.00	0.00	-43.55	Drop 1"/100'
7015.42	0.00	0.00	7000.00	70.00	328.00	1.00	180.00	-47.36	1777' Hold
8792.46	0.00	0.00	8777.04	70.00	328.00	0.00	0.00	-47.36	Build 10"/100'
9692.46	90.00	180.00	9350.00	-502.96	328.00	10.00	180.00	524.25	4273' Hold
13965.70	90.00	180.00	9350.00	-4776.19	327.98	0.00	0.00	4787.44	TD at 13965.70

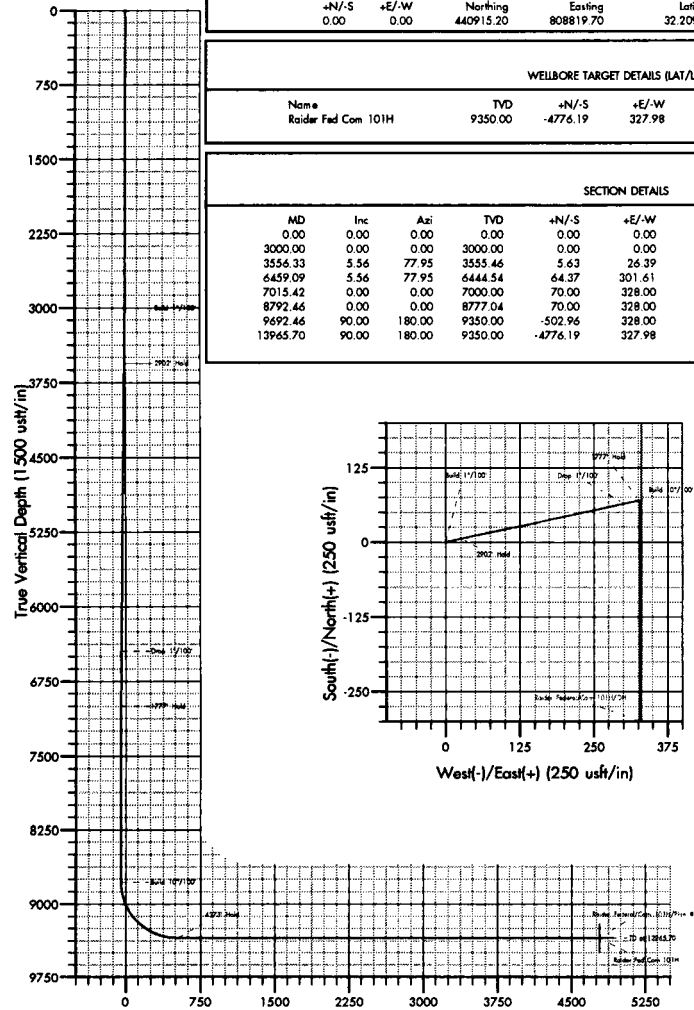
Formation Tops

No formation data is available

CASING DETAILS

No casing data is available

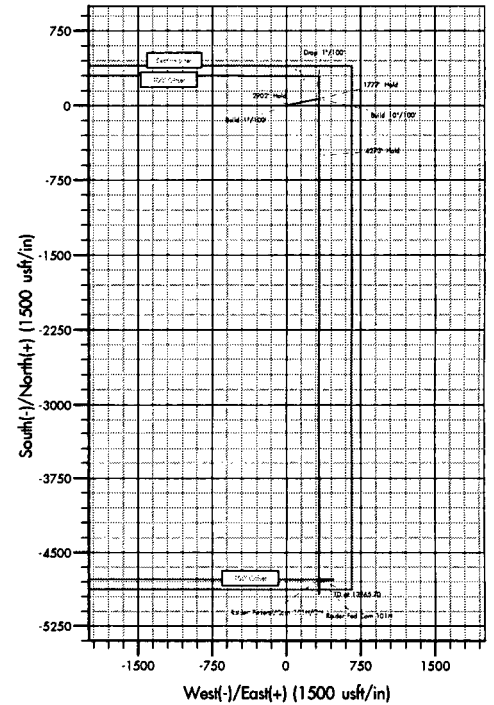
True
Magnetic
Azimuth to True North
Magnetic North: 6.1
Magnetic F
Strength: 47824.1
Dip Angle: 60.1
Date: 07/31/2018
Model: IGRF20



Vertical Section at 176.07° (1500 usf/in)

Plan: Plan #1 (Com 101H/OH)

Created By: Duane Meyer Date: 12-24 July 31 2018



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Com 101H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3556.00usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3556.00usft (H&P 650)
Site:	Raider Federal	North Reference:	True
Well:	Com 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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

Site	Raider Federal			
Site Position:		Northing:	440,904.10 usft	Latitude: 32.209204
From: Map		Easting:	807,020.00 usft	Longitude: -103.474318
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.46 °

Well	Com 101H			
Well Position	+N-S	-3.28 usft	Northing:	440,915.20 usft
	+E-W	1,799.73 usft	Easting:	808,819.70 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	Ground Level: 3,531.00 usft

Wellbore	OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)
	IGRF2015	07/31/18	6.78	60.05
				Field Strength (nT) 47,824.07527521

Design	Plan #1			
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	176.07

Plan Survey Tool Program	Date	07/31/18		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,964.96 Plan #1 (OH)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-SI	

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	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,556.33	5.56	77.95	3,555.46	5.63	26.39	1.00	1.00	0.00	77.95	
6,459.09	5.56	77.95	6,444.54	64.37	301.61	0.00	0.00	0.00	0.00	
7,015.42	0.00	0.00	7,000.00	70.00	328.00	1.00	-1.00	0.00	180.00	
8,792.46	0.00	0.00	8,777.04	70.00	328.00	0.00	0.00	0.00	0.00	
9,692.46	90.00	180.00	9,350.00	-502.96	328.00	10.00	10.00	0.00	180.00	
13,965.70	90.00	180.00	9,350.00	-4,776.19	327.98	0.00	0.00	0.00	0.00	Raider Fed Com 101H

Database: EDM 5000.14 Single User Db
Company: Centennial Resource Development, Inc.
Project: Lea Co., NM (NAD83)
Site: Raider Federal
Well: Com 101H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Com 101H
TVD Reference: KB=25' @ 3556.00usft (H&P 650)
MD Reference: KB=25' @ 3556.00usft (H&P 650)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
3,100.00	1.00	77.95	3,099.99	0.18	0.85	-0.12	1.00	1.00	0.00
3,200.00	2.00	77.95	3,199.96	0.73	3.41	-0.49	1.00	1.00	0.00
3,300.00	3.00	77.95	3,299.86	1.64	7.68	-1.11	1.00	1.00	0.00
3,400.00	4.00	77.95	3,399.68	2.91	13.65	-1.97	1.00	1.00	0.00
3,500.00	5.00	77.95	3,499.37	4.55	21.32	-3.08	1.00	1.00	0.00
3,556.33	5.56	77.95	3,555.46	5.63	26.39	-3.81	1.00	1.00	0.00
2902' Hold									
3,600.00	5.56	77.95	3,598.92	6.52	30.53	-4.41	0.00	0.00	0.00
3,700.00	5.56	77.95	3,698.45	8.54	40.02	-5.78	0.00	0.00	0.00
3,800.00	5.56	77.95	3,797.98	10.56	49.50	-7.15	0.00	0.00	0.00
3,900.00	5.56	77.95	3,897.51	12.59	58.98	-8.52	0.00	0.00	0.00
4,000.00	5.56	77.95	3,997.04	14.61	68.46	-9.89	0.00	0.00	0.00
4,100.00	5.56	77.95	4,096.57	16.63	77.94	-11.25	0.00	0.00	0.00
4,200.00	5.56	77.95	4,196.09	18.66	87.42	-12.62	0.00	0.00	0.00
4,300.00	5.56	77.95	4,295.62	20.68	96.90	-13.99	0.00	0.00	0.00
4,400.00	5.56	77.95	4,395.15	22.70	106.38	-15.36	0.00	0.00	0.00
4,500.00	5.56	77.95	4,494.68	24.73	115.86	-16.73	0.00	0.00	0.00
4,600.00	5.56	77.95	4,594.21	26.75	125.34	-18.10	0.00	0.00	0.00
4,700.00	5.56	77.95	4,693.74	28.77	134.83	-19.47	0.00	0.00	0.00
4,800.00	5.56	77.95	4,793.27	30.80	144.31	-20.84	0.00	0.00	0.00
4,900.00	5.56	77.95	4,892.80	32.82	153.79	-22.21	0.00	0.00	0.00

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Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3556.00usft (H&P 650)
Site:	Raider Federal	North Reference:	True
Well:	Com 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
5,000.00	5.56	77.95	4,992.33	34.84	163.27	-23.58	0.00	0.00	0.00
5,100.00	5.56	77.95	5,091.86	36.87	172.75	-24.95	0.00	0.00	0.00
5,200.00	5.56	77.95	5,191.38	38.89	182.23	-26.32	0.00	0.00	0.00
5,300.00	5.56	77.95	5,290.91	40.91	191.71	-27.68	0.00	0.00	0.00
5,400.00	5.56	77.95	5,390.44	42.94	201.19	-29.05	0.00	0.00	0.00
5,500.00	5.56	77.95	5,489.97	44.96	210.67	-30.42	0.00	0.00	0.00
5,600.00	5.56	77.95	5,589.50	46.98	220.16	-31.79	0.00	0.00	0.00
5,700.00	5.56	77.95	5,689.03	49.01	229.64	-33.16	0.00	0.00	0.00
5,800.00	5.56	77.95	5,788.56	51.03	239.12	-34.53	0.00	0.00	0.00
5,900.00	5.56	77.95	5,888.09	53.05	248.60	-35.90	0.00	0.00	0.00
6,000.00	5.56	77.95	5,987.62	55.08	258.08	-37.27	0.00	0.00	0.00
6,100.00	5.56	77.95	6,087.14	57.10	267.56	-38.64	0.00	0.00	0.00
6,200.00	5.56	77.95	6,186.67	59.12	277.04	-40.01	0.00	0.00	0.00
6,300.00	5.56	77.95	6,286.20	61.15	286.52	-41.38	0.00	0.00	0.00
6,400.00	5.56	77.95	6,385.73	63.17	296.00	-42.74	0.00	0.00	0.00
6,459.09	5.56	77.95	6,444.54	64.37	301.61	-43.55	0.00	0.00	0.00
Drop 1°/100'									
6,500.00	5.15	77.95	6,485.27	65.16	305.34	-44.09	1.00	-1.00	0.00
6,600.00	4.15	77.95	6,584.94	66.86	313.28	-45.24	1.00	-1.00	0.00
6,700.00	3.15	77.95	6,684.74	68.19	319.51	-46.14	1.00	-1.00	0.00
6,800.00	2.15	77.95	6,784.63	69.15	324.04	-46.79	1.00	-1.00	0.00
6,900.00	1.15	77.95	6,884.59	69.76	326.86	-47.20	1.00	-1.00	0.00
7,000.00	0.15	77.95	6,984.58	70.00	327.98	-47.36	1.00	-1.00	0.00
7,015.42	0.00	0.00	7,000.00	70.00	328.00	-47.36	1.00	-1.00	0.00
1777' Hold									
7,100.00	0.00	0.00	7,084.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,200.00	0.00	0.00	7,184.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,300.00	0.00	0.00	7,284.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,400.00	0.00	0.00	7,384.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,500.00	0.00	0.00	7,484.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,600.00	0.00	0.00	7,584.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,700.00	0.00	0.00	7,684.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,800.00	0.00	0.00	7,784.58	70.00	328.00	-47.36	0.00	0.00	0.00
7,900.00	0.00	0.00	7,884.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,000.00	0.00	0.00	7,984.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,100.00	0.00	0.00	8,084.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,200.00	0.00	0.00	8,184.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,300.00	0.00	0.00	8,284.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,400.00	0.00	0.00	8,384.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,500.00	0.00	0.00	8,484.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,600.00	0.00	0.00	8,584.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,700.00	0.00	0.00	8,684.58	70.00	328.00	-47.36	0.00	0.00	0.00
8,792.46	0.00	0.00	8,777.04	70.00	328.00	-47.36	0.00	0.00	0.00
Build 10°/100'									
8,800.00	0.75	180.00	8,784.58	69.95	328.00	-47.32	10.00	10.00	0.00
8,850.00	5.75	180.00	8,834.48	67.11	328.00	-44.49	10.00	10.00	0.00
8,900.00	10.75	180.00	8,883.95	59.94	328.00	-37.33	10.00	10.00	0.00
8,950.00	15.75	180.00	8,932.60	48.48	328.00	-25.89	10.00	10.00	0.00
9,000.00	20.75	180.00	8,980.07	32.82	328.00	-10.27	10.00	10.00	0.00
9,050.00	25.75	180.00	9,025.99	13.09	328.00	9.41	10.00	10.00	0.00
9,100.00	30.75	180.00	9,070.02	-10.57	328.00	33.02	10.00	10.00	0.00
9,150.00	35.75	180.00	9,111.82	-37.98	328.00	60.36	10.00	10.00	0.00
9,200.00	40.75	180.00	9,151.07	-68.93	328.00	91.24	10.00	10.00	0.00

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Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3556.00usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3556.00usft (H&P 650)
Site:	Raider Federal	North Reference:	True
Well:	Com 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
9,250.00	45.75	180.00	9,187.48	-103.18	328.00	125.41	10.00	10.00	0.00
9,300.00	50.75	180.00	9,220.76	-140.47	328.00	162.61	10.00	10.00	0.00
9,350.00	55.75	180.00	9,250.66	-180.53	328.00	202.57	10.00	10.00	0.00
9,400.00	60.75	180.00	9,276.96	-223.03	328.00	244.98	10.00	10.00	0.00
9,450.00	65.75	180.00	9,299.46	-267.67	328.00	289.51	10.00	10.00	0.00
9,500.00	70.75	180.00	9,317.98	-314.09	328.00	335.83	10.00	10.00	0.00
9,550.00	75.75	180.00	9,332.38	-361.96	328.00	383.58	10.00	10.00	0.00
9,600.00	80.75	180.00	9,342.56	-410.90	328.00	432.40	10.00	10.00	0.00
9,650.00	85.75	180.00	9,348.43	-460.53	328.00	481.92	10.00	10.00	0.00
9,692.46	90.00	180.00	9,350.00	-502.96	328.00	524.25	10.00	10.00	0.00
4273' Hold									
9,700.00	90.00	180.00	9,350.00	-510.50	328.00	531.77	0.00	0.00	0.00
9,800.00	90.00	180.00	9,350.00	-610.50	328.00	631.53	0.00	0.00	0.00
9,900.00	90.00	180.00	9,350.00	-710.50	328.00	731.30	0.00	0.00	0.00
10,000.00	90.00	180.00	9,350.00	-810.50	328.00	831.06	0.00	0.00	0.00
10,100.00	90.00	180.00	9,350.00	-910.50	328.00	930.83	0.00	0.00	0.00
10,200.00	90.00	180.00	9,350.00	-1,010.50	328.00	1,030.59	0.00	0.00	0.00
10,300.00	90.00	180.00	9,350.00	-1,110.50	328.00	1,130.36	0.00	0.00	0.00
10,400.00	90.00	180.00	9,350.00	-1,210.50	327.99	1,230.12	0.00	0.00	0.00
10,500.00	90.00	180.00	9,350.00	-1,310.50	327.99	1,329.89	0.00	0.00	0.00
10,600.00	90.00	180.00	9,350.00	-1,410.50	327.99	1,429.65	0.00	0.00	0.00
10,700.00	90.00	180.00	9,350.00	-1,510.50	327.99	1,529.42	0.00	0.00	0.00
10,800.00	90.00	180.00	9,350.00	-1,610.50	327.99	1,629.18	0.00	0.00	0.00
10,900.00	90.00	180.00	9,350.00	-1,710.50	327.99	1,728.95	0.00	0.00	0.00
11,000.00	90.00	180.00	9,350.00	-1,810.50	327.99	1,828.71	0.00	0.00	0.00
11,100.00	90.00	180.00	9,350.00	-1,910.50	327.99	1,928.48	0.00	0.00	0.00
11,200.00	90.00	180.00	9,350.00	-2,010.50	327.99	2,028.24	0.00	0.00	0.00
11,300.00	90.00	180.00	9,350.00	-2,110.50	327.99	2,128.01	0.00	0.00	0.00
11,400.00	90.00	180.00	9,350.00	-2,210.50	327.99	2,227.77	0.00	0.00	0.00
11,500.00	90.00	180.00	9,350.00	-2,310.50	327.99	2,327.54	0.00	0.00	0.00
11,600.00	90.00	180.00	9,350.00	-2,410.50	327.99	2,427.30	0.00	0.00	0.00
11,700.00	90.00	180.00	9,350.00	-2,510.50	327.99	2,527.07	0.00	0.00	0.00
11,800.00	90.00	180.00	9,350.00	-2,610.50	327.99	2,626.83	0.00	0.00	0.00
11,900.00	90.00	180.00	9,350.00	-2,710.50	327.99	2,726.60	0.00	0.00	0.00
12,000.00	90.00	180.00	9,350.00	-2,810.50	327.99	2,826.36	0.00	0.00	0.00
12,100.00	90.00	180.00	9,350.00	-2,910.50	327.99	2,926.13	0.00	0.00	0.00
12,200.00	90.00	180.00	9,350.00	-3,010.50	327.99	3,025.89	0.00	0.00	0.00
12,300.00	90.00	180.00	9,350.00	-3,110.50	327.99	3,125.66	0.00	0.00	0.00
12,400.00	90.00	180.00	9,350.00	-3,210.50	327.99	3,225.42	0.00	0.00	0.00
12,500.00	90.00	180.00	9,350.00	-3,310.50	327.99	3,325.19	0.00	0.00	0.00
12,600.00	90.00	180.00	9,350.00	-3,410.50	327.99	3,424.95	0.00	0.00	0.00
12,700.00	90.00	180.00	9,350.00	-3,510.50	327.98	3,524.72	0.00	0.00	0.00
12,800.00	90.00	180.00	9,350.00	-3,610.50	327.98	3,624.48	0.00	0.00	0.00
12,900.00	90.00	180.00	9,350.00	-3,710.50	327.98	3,724.25	0.00	0.00	0.00
13,000.00	90.00	180.00	9,350.00	-3,810.50	327.98	3,824.01	0.00	0.00	0.00
13,100.00	90.00	180.00	9,350.00	-3,910.50	327.98	3,923.78	0.00	0.00	0.00
13,200.00	90.00	180.00	9,350.00	-4,010.50	327.98	4,023.54	0.00	0.00	0.00
13,300.00	90.00	180.00	9,350.00	-4,110.50	327.98	4,123.31	0.00	0.00	0.00
13,400.00	90.00	180.00	9,350.00	-4,210.50	327.98	4,223.07	0.00	0.00	0.00
13,500.00	90.00	180.00	9,350.00	-4,310.50	327.98	4,322.84	0.00	0.00	0.00
13,600.00	90.00	180.00	9,350.00	-4,410.50	327.98	4,422.60	0.00	0.00	0.00
13,700.00	90.00	180.00	9,350.00	-4,510.50	327.98	4,522.37	0.00	0.00	0.00
13,800.00	90.00	180.00	9,350.00	-4,610.50	327.98	4,622.13	0.00	0.00	0.00
13,900.00	90.00	180.00	9,350.00	-4,710.50	327.98	4,721.90	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Com 101H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3556.00usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3556.00usft (H&P 650)
Site:	Raider Federal	North Reference:	True
Well:	Com 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
13,965.70	90.00	180.00	9,350.00	-4,776.19	327.98	4,787.44	0.00	0.00	0.00
TD at 13965.70									

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									
Raider Fed Com 101H	0.00	0.00	9,350.00	-4,776.19	327.98	436,141.80	809,186.10	32.196067	-103.467439
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
3,000.00	3,000.00	0.00	0.00	Build 1°/100'
3,556.33	3,555.46	5.63	26.39	2902' Hold
6,459.09	6,444.54	64.37	301.61	Drop 1°/100'
7,015.42	7,000.00	70.00	328.00	1777' Hold
8,792.46	8,777.04	70.00	328.00	Build 10°/100'
9,692.46	9,350.00	-502.96	328.00	4273' Hold
13,965.70	9,350.00	-4,776.19	327.98	TD at 13965.70



Project: Lea Co., NM (NAD83)
Site: Raider Federal
Well: Com 101H
Wellbore: OH
Design: Plan #1
Lat: 32.209195
Long: -103.468499
GL: 3531.00
KB: KB=25' @ 3556.00uH (H&P 650)



WELL DETAILS: Com 101H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	440915.20	808819.70	32.209195	-103.468499

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Raider Fed Com 101H	9350.00	-4776.19	327.98	436141.80	809186.10	Point

SECTION DETAILS

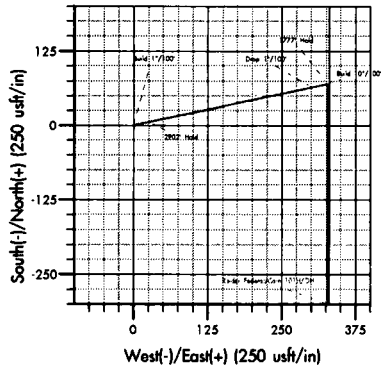
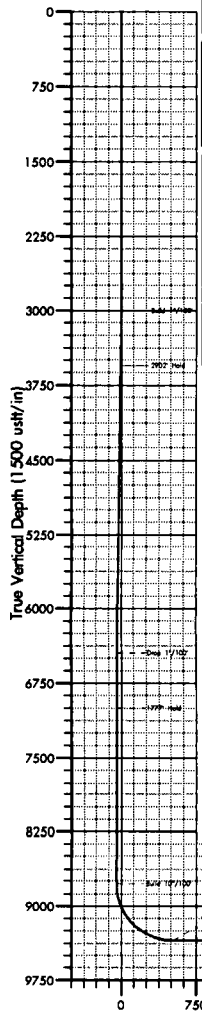
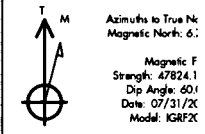
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Tface	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
3556.33	5.56	77.95	3555.46	5.63	26.39	1.00	77.95	-3.81	2902' Hold
6459.09	5.56	77.95	6444.54	64.37	301.61	0.00	0.00	-43.55	Drop 1°/100'
7015.42	0.00	0.00	7000.00	70.00	328.00	1.00	180.00	-47.36	1777' Hold
8792.46	0.00	0.00	8777.04	70.00	328.00	0.00	0.00	-47.36	Build 10°/100'
9692.46	90.00	180.00	9350.00	-502.96	328.00	10.00	180.00	524.25	4273' Hold
13965.70	90.00	180.00	9350.00	-4776.19	327.98	0.00	0.00	4787.44	TD at 13965.70

Formation Tops

No formation data is available

CASING DETAILS

No casing data is available



Vertical Section at 176.07° (1500 usf/in)

Plan: Plan #1 (Com 101H/OH)

Created By: Dusty Mayers Date: 12/24 July 31 2018

