

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

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 282433

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

1. Operator Name and Address Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102		2. OGRID Number 374034
		3. API Number 30-015-47097
4. Property Code 328238	5. Property Name RENA 7 STATE COM	6. Well No. 701H

7. Surface Location

UL - Lot M	Section 6	Township 23S	Range 26E	Lot Idn 7	Feet From 94	N/S Line S	Feet From 646	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 18	Township 23S	Range 26E	Lot Idn 4	Feet From 100	N/S Line S	Feet From 330	E/W Line W	County Eddy
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9. Pool Information

WC-015 G-04 S232628M;BONE SPRING	98056
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3432
16. Multiple N	17. Proposed Depth 19070	18. Formation Bone Spring	19. Contractor	20. Spud Date 7/1/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	450	525	0
Int1	12.25	9.625	40	2000	975	0
Prod	8.75	5.5	20	19070	3380	1500

Casing/Cement Program: Additional Comments

Casing grade for Production is P-100 FJ

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	10000	5000	TBD
Double Ram	10000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Electronically filed by Candler Quisenberry	Approved By:	Raymond Podany
Title:	Member	Title:	Geologist
Email Address:	chandler@flatcreekresources.com	Approved Date:	5/14/2020
Date:	5/13/2020	Expiration Date:	5/14/2022
Phone: 817-310-8574		Conditions of Approval Attached	

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1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code 98056	³ Pool Name WC-015 G-04 S232628M; BONE SPRING
⁴ Property Code	⁵ Property Name RENA 7 STATE COM	
⁷ OGRID No. 374034	⁸ Operator Name FLAT CREEK RESOURCES, LLC	
		⁶ Well Number 701H
		⁹ Elevation 3,432'

¹⁰ Surface Location

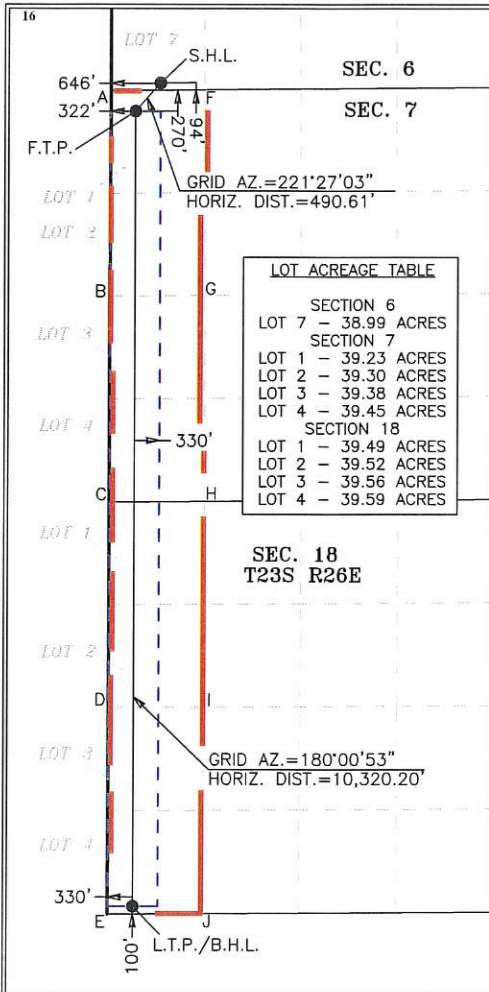
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
7	6	23 S	26 E		94	SOUTH	646	WEST	EDDY

¹¹ 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
4	18	23 S	26 E		100	SOUTH	330	WEST	EDDY

¹² Dedicated Acres 315.52	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
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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.



SHL (NAD83 NME)
Y = 482,492.6
X = 539,759.9
LAT. = 32.326444 °N
LONG. = 104.338441 °W

FTP (NAD83 NME)
Y = 482,124.9
X = 539,435.1
LAT. = 32.325433 °N
LONG. = 104.339492 °W

LTP/BHL (NAD83 NME)
Y = 471,804.7
X = 539,432.5
LAT. = 32.297064 °N
LONG. = 104.339499 °W

CORNER COORDINATES (NAD83 NME)

A - Y = 482,392.1 N	X = 539,113.9 E
B - Y = 479,719.9 N	X = 539,106.3 E
C - Y = 477,046.8 N	X = 539,106.4 E
D - Y = 474,378.5 N	X = 539,107.3 E
E - Y = 471,702.7 N	X = 539,102.3 E
F - Y = 482,404.4 N	X = 540,339.3 E
G - Y = 479,730.3 N	X = 540,345.6 E
H - Y = 477,056.6 N	X = 540,355.8 E
I - Y = 474,386.6 N	X = 540,353.1 E
J - Y = 471,710.2 N	X = 540,347.4 E

SHL (NAD27 NME)
Y = 482,434.2
X = 498,579.2
LAT. = 32.326328 °N
LONG. = 104.337933 °W

FTP (NAD27 NME)
Y = 482,066.5
X = 498,254.4
LAT. = 32.325317 °N
LONG. = 104.338984 °W

LTP/BHL (NAD27 NME)
Y = 471,746.6
X = 498,251.6
LAT. = 32.296948 °N
LONG. = 104.338992 °W

CORNER COORDINATES (NAD27 NME)

A - Y = 482,333.7 N	X = 497,933.2 E
B - Y = 479,661.6 N	X = 497,925.6 E
C - Y = 476,988.5 N	X = 497,925.6 E
D - Y = 474,320.3 N	X = 497,926.5 E
E - Y = 471,644.6 N	X = 497,921.4 E
F - Y = 482,346.0 N	X = 499,158.6 E
G - Y = 479,672.0 N	X = 499,164.9 E
H - Y = 476,998.3 N	X = 499,175.0 E
I - Y = 474,328.4 N	X = 499,172.3 E
J - Y = 471,652.0 N	X = 499,167.5 E

17 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.

Brian Wood **5-13-20**

Signature Date

BRIAN WOOD

Printed Name

brian@permitswest.com

E-mail Address

505 466-8120

18 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.

05-04-2020

Date of Survey

Signature and Seal of
Professional Surveyor:

Mark Dillon Harp

MARK DILLON HARP 23786
Certificate Number



RR/LM

2020010128

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Energy, Minerals and Natural Resources
Oil Conservation Division
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GAS CAPTURE PLAN

Date: 5/14/2020

☒ Original

Operator & OGRID No.: [374034] Flat Creek Resources, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
RENA 7 STATE COM #701H	30-015-47097	M-6-23S-26E	0094S 0646W	2500	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ENTERPRISE FIELD SERVICES L.L.C. and will be connected to ENTERPRISE FIELD SERVICES L.L.C. High Pressure gathering system located in Eddy County, New Mexico. It will require 3200' of pipeline to connect the facility to High Pressure gathering system. Flat Creek Resources, LLC provides (periodically) to ENTERPRISE FIELD SERVICES L.L.C. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Flat Creek Resources, LLC and ENTERPRISE FIELD SERVICES L.L.C. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ENTERPRISE FIELD SERVICES L.L.C. Processing Plant located in Sec. 06, Twn. 23S, Rng. 26E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ENTERPRISE FIELD SERVICES L.L.C. system at that time. Based on current information, it is Flat Creek Resources, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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1220 S. St Francis Dr.
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Form APD Comments

Permit 282433

PERMIT COMMENTS

Operator Name and Address: Flat Creek Resources, LLC [374034] 777 Main St. Fort Worth, TX 76102		API Number: 30-015-47097
		Well: RENA 7 STATE COM #701H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 282433

PERMIT CONDITIONS OF APPROVAL

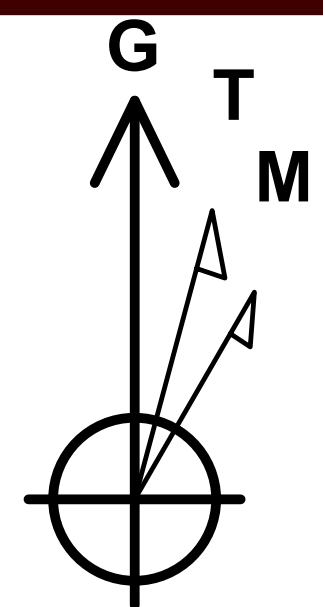
Operator Name and Address: Flat Creek Resources, LLC [374034] 777 Main St. Fort Worth, TX 76102		API Number: 30-015-47097
		Well: RENA 7 STATE COM #701H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	



Project: Eddy County, NM (NAD83 NME)
Site: Rena 7 State
Well: 701H
Wellbore: OH
Design: Plan 2 05-08-20
Rig: TBD



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: 0.00°
Magnetic North: 7.23°

Magnetic Field
Strength: 47761.7snT
Dip Angle: 59.95°
Date: 3/13/2020
Model: MVHD

WELL DETAILS						
			Ground Level:	3440.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	482492.60	539759.90	32° 19' 35.199026 N	104° 20' 18.386664 W	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - Rena 7 State 701H	8411.50	-10687.90	-327.40	471804.70	539432.50	32° 17' 49.432173 N	104° 20' 22.195292 W
FTP - Rena 7 State 701H	8411.50	-367.70	-324.80	482124.90	539435.10	32° 19' 31.560132 N	104° 20' 22.171908 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			
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00			
3	1167.26	3.35	302.30	1167.17	2.61	-4.13	2.00	302.30	-2.48			
4	7582.40	3.35	302.30	7571.37	202.65	-320.53	0.00	0.00	-192.74			
5	7749.66	0.00	0.01	7738.54	205.26	-324.66	2.00	180.00	-195.22			
6	7849.66	0.00	0.01	7838.54	205.26	-324.66	0.00	0.01	-195.22			
7	8749.66	90.00	180.01	8411.50	-367.70	-324.80	10.00	180.01	377.47			
8	19069.86	90.00	180.01	8411.50	-10687.90	-327.40	0.00	0.00	10692.91	BHL - Rena 7 State 701H		
											TD at 19069.86	

LEGEND	
	Plan 2 05-08-20

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
26.50	26.50	TANSILL	0.00	181.75
1295.50	1295.81	LAMAR	0.00	181.75
1556.50	1557.26	BELL CANYON/DELAWARE SAND	0.00	181.75
2359.50	2361.63	CHERRY CANYON	0.00	181.75
3339.50	3343.30	BRUSHY CANYON	0.00	181.75
4856.50	4862.89	BONE SPRING	0.00	181.75
5760.50	5768.44	1ST BONE SPRING SAND	0.00	181.75
6161.50	6170.12	2ND BONE SPRING SAND	0.00	181.75
8096.50	8117.24	3RD BONE SPRING SAND	0.00	181.75
8411.50	8749.66	LANDPOINT	0.00	181.75

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

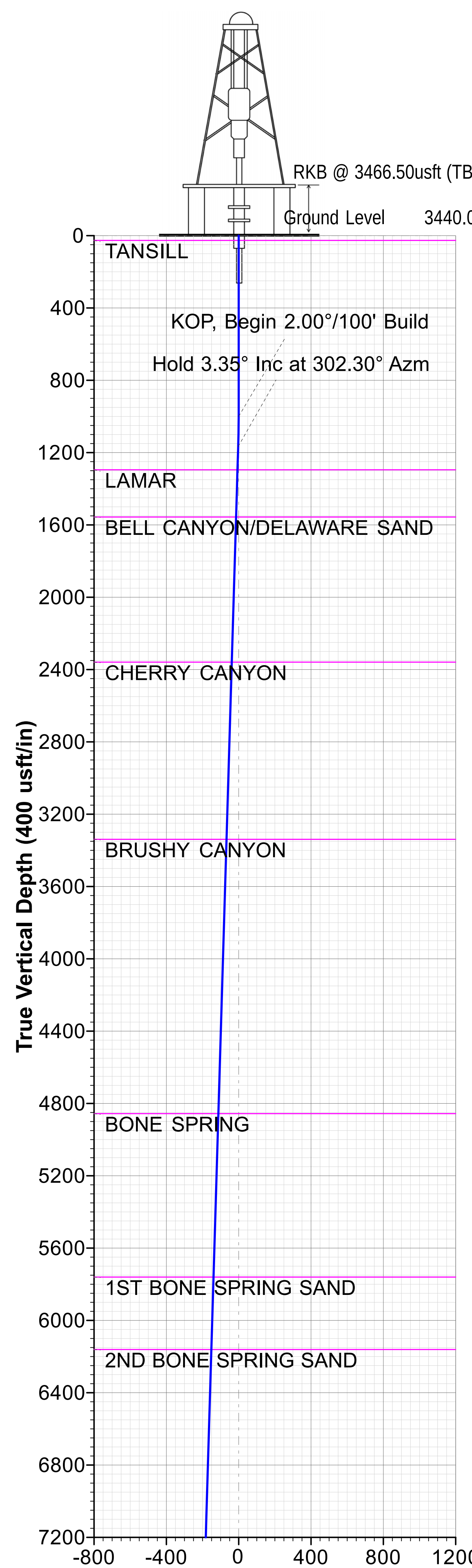
Local Origin: Well 701H, Grid North

Latitude: 32° 19' 35.199026 N
Longitude: 104° 20' 18.386664 W

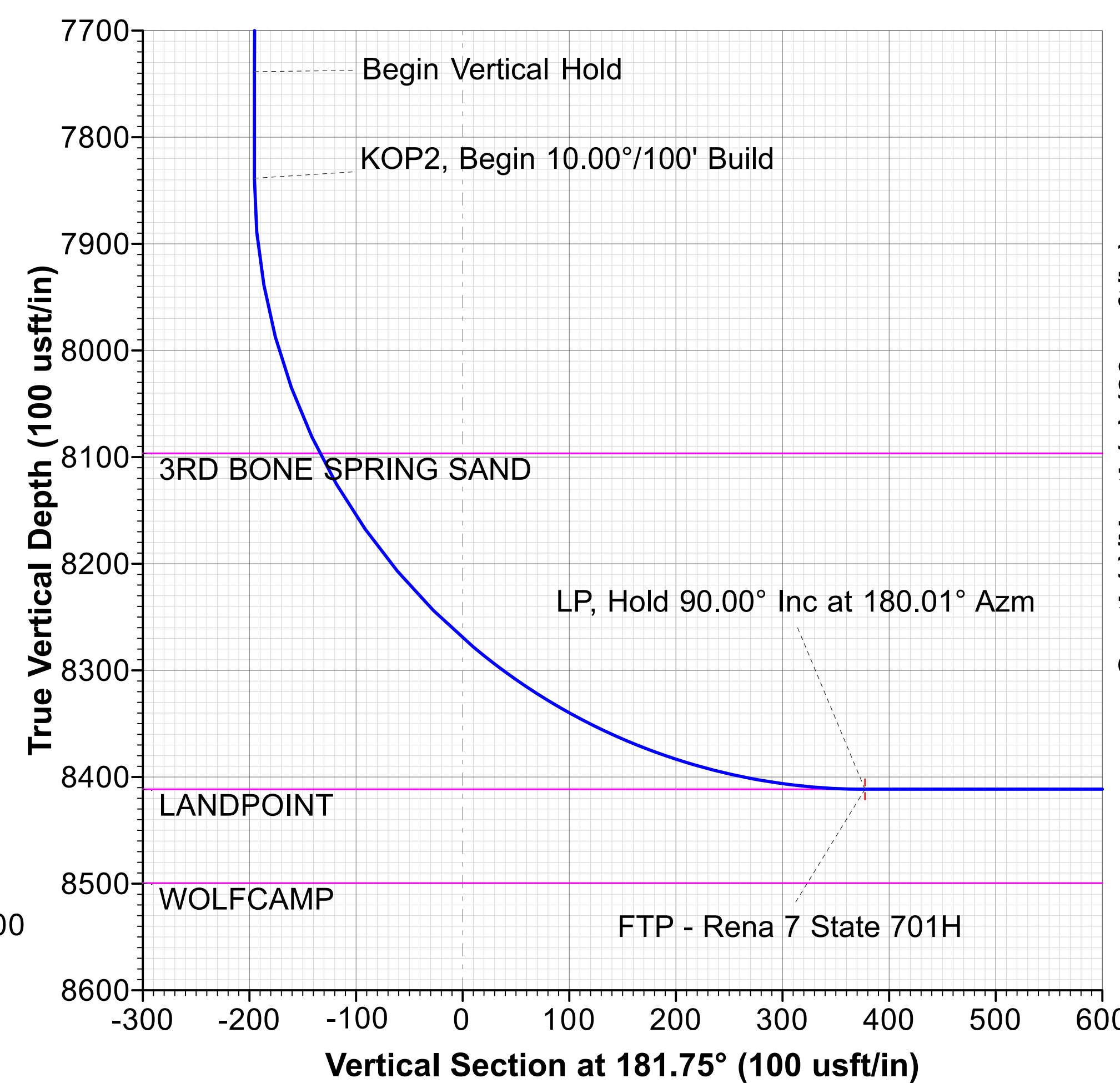
Grid East: 539759.90
Grid North: 482492.60
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 13-Mar-20
Magnetic Declination: 7.23°
Dip Angle from Horizontal: 59.95°
Magnetic Field Strength: 47761.74260690nT

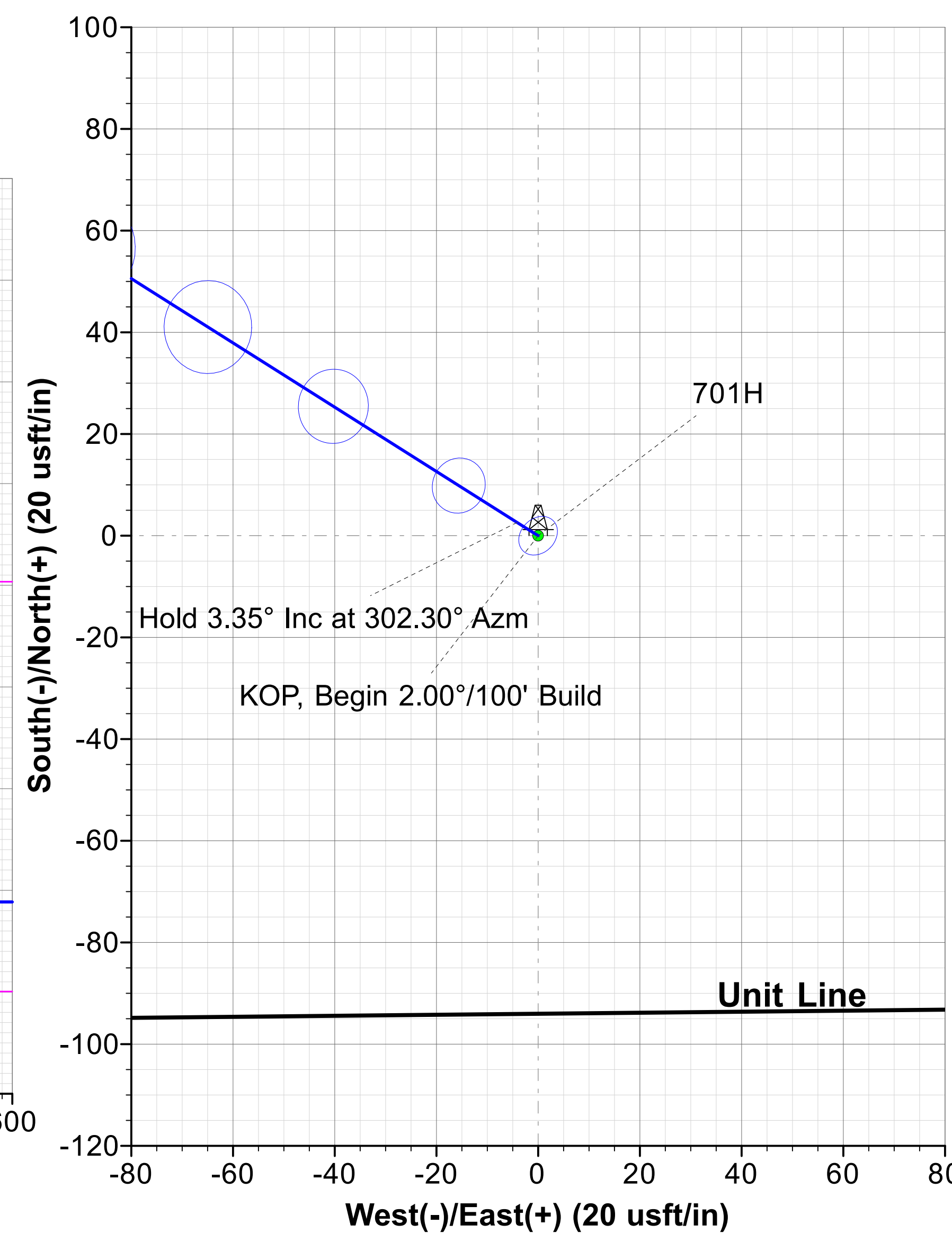
To convert a Magnetic Direction to a Grid Direction, Add 7.23°
To convert a Magnetic Direction to a True Direction, Add 7.23° East
To convert a True Direction to a Grid Direction, Add 0.00°



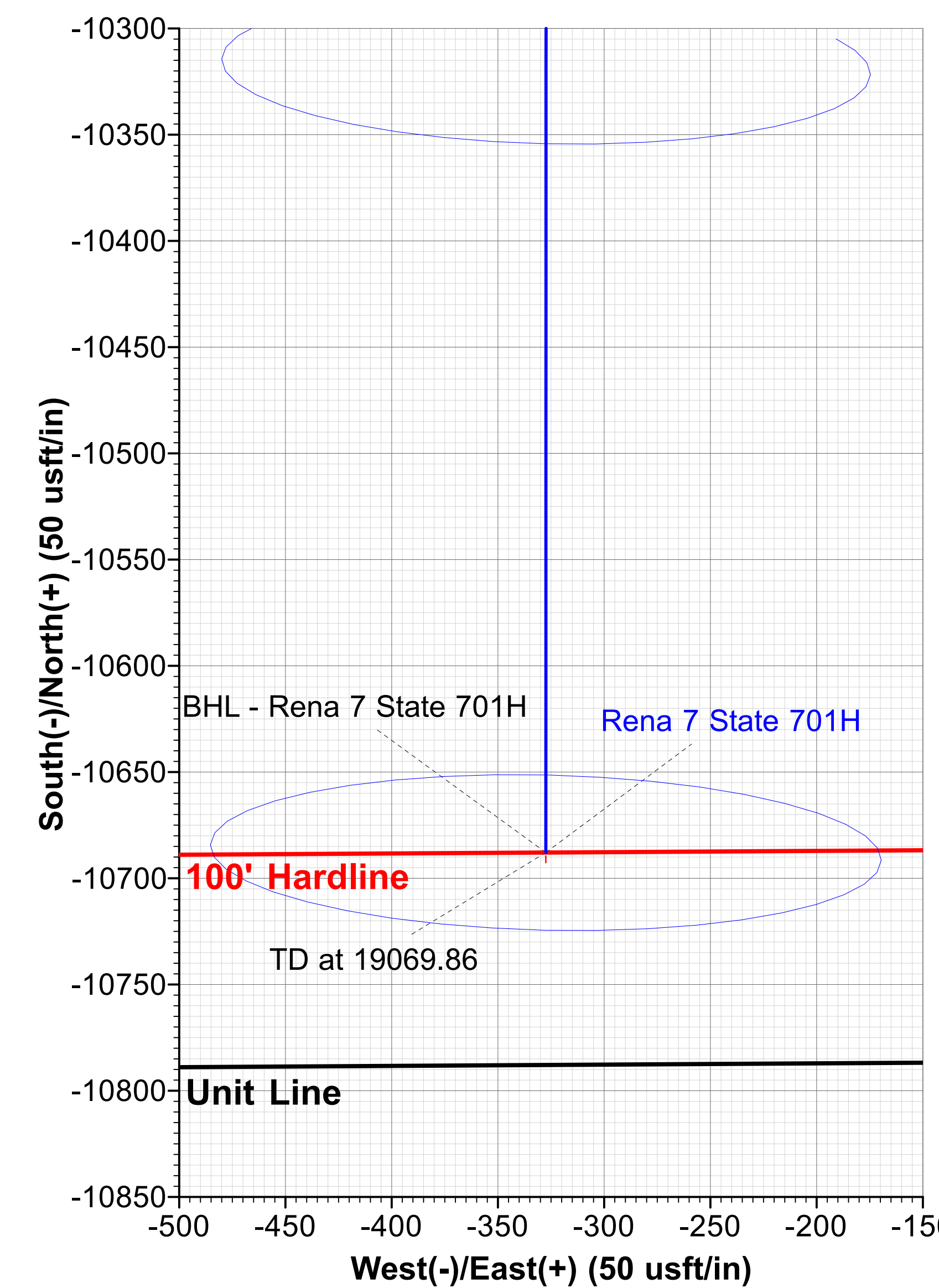
Vertical Section at 181.75° (400 usft/in)



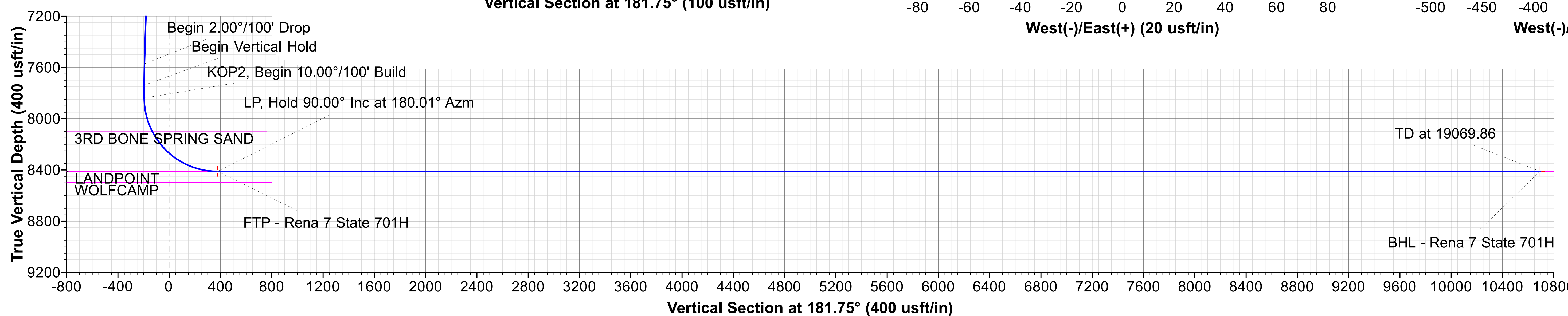
Vertical Section at 181.75° (100 usft/in)



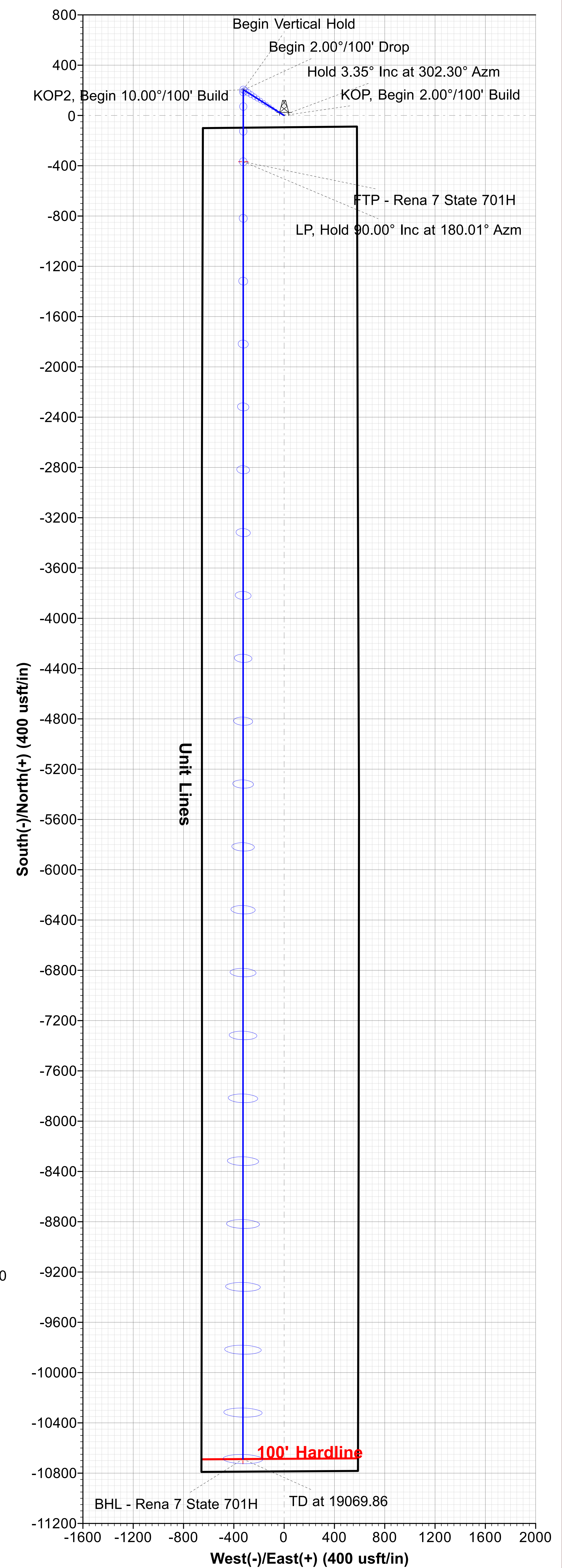
West(-)/East(+) (20 usft/in)



West(-)/East(+) (50 usft/in)



Vertical Section at 181.75° (400 usft/in)





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 701H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB @ 3466.50usft (TBD)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	RKB @ 3466.50usft (TBD)
Site:	Rena 7 State	North Reference:	Grid
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 05-08-20		

Project	Eddy 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		Rena 7 State			
Site Position:		Northing:	482,492.60 usft	Latitude:	32° 19' 35.199026 N
From:	Map	Easting:	539,759.90 usft	Longitude:	104° 20' 18.386664 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.00 °

Well	701H					
Well Position	+N/-S	0.00 usft	Northing:	482,492.60 usft	Latitude:	32° 19' 35.199026 N
	+E/-W	0.00 usft	Easting:	539,759.90 usft	Longitude:	104° 20' 18.386664 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,440.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	3/13/2020	7.23	59.95	47,761.74260690

Design	Plan 2 05-08-20			
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	181.75

Plan Survey Tool Program	Date	5/8/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,069.86	Plan 2 05-08-20 (OH)	MWD+HRGM
				OWSG MWD + HRGM

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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,167.26	3.35	302.30	1,167.17	2.61	-4.13	2.00	2.00	0.00	302.30	
7,582.40	3.35	302.30	7,571.37	202.65	-320.53	0.00	0.00	0.00	0.00	
7,749.66	0.00	0.00	7,738.54	205.26	-324.66	2.00	-2.00	0.00	180.00	
7,849.66	0.00	0.00	7,838.54	205.26	-324.66	0.00	0.00	0.00	0.00	
8,749.66	90.00	180.01	8,411.50	-367.70	-324.80	10.00	10.00	-20.00	180.01	
19,069.86	90.00	180.01	8,411.50	-10,687.90	-327.40	0.00	0.00	0.00	0.00	BHL - Rena 7 State 71



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 701H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB @ 3466.50usft (TBD)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	RKB @ 3466.50usft (TBD)
Site:	Rena 7 State	North Reference:	Grid
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 05-08-20		

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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,100.00	2.00	302.30	1,099.98	0.93	-1.48	-0.89	2.00	2.00	0.00
1,167.26	3.35	302.30	1,167.17	2.61	-4.13	-2.48	2.00	2.00	0.00
Hold 3.35° Inc at 302.30° Azm									
1,200.00	3.35	302.30	1,199.85	3.63	-5.74	-3.45	0.00	0.00	0.00
1,300.00	3.35	302.30	1,299.68	6.75	-10.67	-6.42	0.00	0.00	0.00
1,400.00	3.35	302.30	1,399.51	9.87	-15.60	-9.38	0.00	0.00	0.00
1,500.00	3.35	302.30	1,499.34	12.98	-20.54	-12.35	0.00	0.00	0.00
1,600.00	3.35	302.30	1,599.17	16.10	-25.47	-15.32	0.00	0.00	0.00
1,700.00	3.35	302.30	1,699.00	19.22	-30.40	-18.28	0.00	0.00	0.00
1,800.00	3.35	302.30	1,798.83	22.34	-35.33	-21.25	0.00	0.00	0.00
1,900.00	3.35	302.30	1,898.66	25.46	-40.27	-24.21	0.00	0.00	0.00
2,000.00	3.35	302.30	1,998.49	28.58	-45.20	-27.18	0.00	0.00	0.00
2,100.00	3.35	302.30	2,098.32	31.69	-50.13	-30.14	0.00	0.00	0.00
2,200.00	3.35	302.30	2,198.15	34.81	-55.06	-33.11	0.00	0.00	0.00
2,300.00	3.35	302.30	2,297.97	37.93	-59.99	-36.08	0.00	0.00	0.00
2,400.00	3.35	302.30	2,397.80	41.05	-64.93	-39.04	0.00	0.00	0.00
2,500.00	3.35	302.30	2,497.63	44.17	-69.86	-42.01	0.00	0.00	0.00
2,600.00	3.35	302.30	2,597.46	47.29	-74.79	-44.97	0.00	0.00	0.00
2,700.00	3.35	302.30	2,697.29	50.40	-79.72	-47.94	0.00	0.00	0.00
2,800.00	3.35	302.30	2,797.12	53.52	-84.65	-50.91	0.00	0.00	0.00
2,900.00	3.35	302.30	2,896.95	56.64	-89.59	-53.87	0.00	0.00	0.00
3,000.00	3.35	302.30	2,996.78	59.76	-94.52	-56.84	0.00	0.00	0.00
3,100.00	3.35	302.30	3,096.61	62.88	-99.45	-59.80	0.00	0.00	0.00
3,200.00	3.35	302.30	3,196.44	66.00	-104.38	-62.77	0.00	0.00	0.00
3,300.00	3.35	302.30	3,296.27	69.11	-109.32	-65.73	0.00	0.00	0.00
3,400.00	3.35	302.30	3,396.10	72.23	-114.25	-68.70	0.00	0.00	0.00
3,500.00	3.35	302.30	3,495.93	75.35	-119.18	-71.67	0.00	0.00	0.00
3,600.00	3.35	302.30	3,595.76	78.47	-124.11	-74.63	0.00	0.00	0.00
3,700.00	3.35	302.30	3,695.59	81.59	-129.04	-77.60	0.00	0.00	0.00
3,800.00	3.35	302.30	3,795.42	84.71	-133.98	-80.56	0.00	0.00	0.00
3,900.00	3.35	302.30	3,895.25	87.82	-138.91	-83.53	0.00	0.00	0.00
4,000.00	3.35	302.30	3,995.08	90.94	-143.84	-86.49	0.00	0.00	0.00
4,100.00	3.35	302.30	4,094.91	94.06	-148.77	-89.46	0.00	0.00	0.00
4,200.00	3.35	302.30	4,194.74	97.18	-153.70	-92.43	0.00	0.00	0.00
4,300.00	3.35	302.30	4,294.57	100.30	-158.64	-95.39	0.00	0.00	0.00
4,400.00	3.35	302.30	4,394.40	103.41	-163.57	-98.36	0.00	0.00	0.00
4,500.00	3.35	302.30	4,494.23	106.53	-168.50	-101.32	0.00	0.00	0.00
4,600.00	3.35	302.30	4,594.06	109.65	-173.43	-104.29	0.00	0.00	0.00
4,700.00	3.35	302.30	4,693.89	112.77	-178.37	-107.26	0.00	0.00	0.00
4,800.00	3.35	302.30	4,793.72	115.89	-183.30	-110.22	0.00	0.00	0.00
4,900.00	3.35	302.30	4,893.54	119.01	-188.23	-113.19	0.00	0.00	0.00
5,000.00	3.35	302.30	4,993.37	122.12	-193.16	-116.15	0.00	0.00	0.00
5,100.00	3.35	302.30	5,093.20	125.24	-198.09	-119.12	0.00	0.00	0.00
5,200.00	3.35	302.30	5,193.03	128.36	-203.03	-122.08	0.00	0.00	0.00
5,300.00	3.35	302.30	5,292.86	131.48	-207.96	-125.05	0.00	0.00	0.00
5,400.00	3.35	302.30	5,392.69	134.60	-212.89	-128.02	0.00	0.00	0.00
5,500.00	3.35	302.30	5,492.52	137.72	-217.82	-130.98	0.00	0.00	0.00
5,600.00	3.35	302.30	5,592.35	140.83	-222.75	-133.95	0.00	0.00	0.00
5,700.00	3.35	302.30	5,692.18	143.95	-227.69	-136.91	0.00	0.00	0.00
5,800.00	3.35	302.30	5,792.01	147.07	-232.62	-139.88	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 701H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB @ 3466.50usft (TBD)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	RKB @ 3466.50usft (TBD)
Site:	Rena 7 State	North Reference:	Grid
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 05-08-20		

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)
5,900.00	3.35	302.30	5,891.84	150.19	-237.55	-142.85	0.00	0.00	0.00
6,000.00	3.35	302.30	5,991.67	153.31	-242.48	-145.81	0.00	0.00	0.00
6,100.00	3.35	302.30	6,091.50	156.43	-247.42	-148.78	0.00	0.00	0.00
6,200.00	3.35	302.30	6,191.33	159.54	-252.35	-151.74	0.00	0.00	0.00
6,300.00	3.35	302.30	6,291.16	162.66	-257.28	-154.71	0.00	0.00	0.00
6,400.00	3.35	302.30	6,390.99	165.78	-262.21	-157.67	0.00	0.00	0.00
6,500.00	3.35	302.30	6,490.82	168.90	-267.14	-160.64	0.00	0.00	0.00
6,600.00	3.35	302.30	6,590.65	172.02	-272.08	-163.61	0.00	0.00	0.00
6,700.00	3.35	302.30	6,690.48	175.14	-277.01	-166.57	0.00	0.00	0.00
6,800.00	3.35	302.30	6,790.31	178.25	-281.94	-169.54	0.00	0.00	0.00
6,900.00	3.35	302.30	6,890.14	181.37	-286.87	-172.50	0.00	0.00	0.00
7,000.00	3.35	302.30	6,989.97	184.49	-291.80	-175.47	0.00	0.00	0.00
7,100.00	3.35	302.30	7,089.80	187.61	-296.74	-178.44	0.00	0.00	0.00
7,200.00	3.35	302.30	7,189.63	190.73	-301.67	-181.40	0.00	0.00	0.00
7,300.00	3.35	302.30	7,289.46	193.85	-306.60	-184.37	0.00	0.00	0.00
7,400.00	3.35	302.30	7,389.28	196.96	-311.53	-187.33	0.00	0.00	0.00
7,500.00	3.35	302.30	7,489.11	200.08	-316.47	-190.30	0.00	0.00	0.00
7,582.40	3.35	302.30	7,571.37	202.65	-320.53	-192.74	0.00	0.00	0.00
Begin 2.00°/100' Drop									
7,600.00	2.99	302.30	7,588.95	203.17	-321.35	-193.24	2.00	-2.00	0.00
7,700.00	0.99	302.30	7,688.88	205.03	-324.29	-195.00	2.00	-2.00	0.00
7,749.66	0.00	0.00	7,738.54	205.26	-324.66	-195.22	2.00	-2.00	0.00
Begin Vertical Hold									
7,849.66	0.00	0.00	7,838.54	205.26	-324.66	-195.22	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
7,900.00	5.03	180.01	7,888.81	203.05	-324.66	-193.01	10.00	10.00	0.00
8,000.00	15.03	180.01	7,987.16	185.65	-324.66	-175.62	10.00	10.00	0.00
8,100.00	25.03	180.01	8,080.99	151.43	-324.67	-141.42	10.00	10.00	0.00
8,200.00	35.03	180.01	8,167.45	101.45	-324.68	-91.46	10.00	10.00	0.00
8,300.00	45.03	180.01	8,243.92	37.20	-324.70	-27.25	10.00	10.00	0.00
8,400.00	55.03	180.01	8,308.07	-39.34	-324.72	49.26	10.00	10.00	0.00
8,500.00	65.03	180.01	8,357.96	-125.86	-324.74	135.75	10.00	10.00	0.00
8,600.00	75.03	180.01	8,392.06	-219.73	-324.76	229.57	10.00	10.00	0.00
8,700.00	85.03	180.01	8,409.35	-318.10	-324.79	327.89	10.00	10.00	0.00
8,749.66	90.00	180.01	8,411.50	-367.70	-324.80	377.47	10.00	10.00	0.00
LP, Hold 90.00° Inc at 180.01° Azm									
8,800.00	90.00	180.01	8,411.50	-418.04	-324.81	427.79	0.00	0.00	0.00
8,900.00	90.00	180.01	8,411.50	-518.04	-324.84	527.74	0.00	0.00	0.00
9,000.00	90.00	180.01	8,411.50	-618.04	-324.86	627.69	0.00	0.00	0.00
9,100.00	90.00	180.01	8,411.50	-718.04	-324.89	727.65	0.00	0.00	0.00
9,200.00	90.00	180.01	8,411.50	-818.04	-324.91	827.60	0.00	0.00	0.00
9,300.00	90.00	180.01	8,411.50	-918.04	-324.94	927.56	0.00	0.00	0.00
9,400.00	90.00	180.01	8,411.50	-1,018.04	-324.96	1,027.51	0.00	0.00	0.00
9,500.00	90.00	180.01	8,411.50	-1,118.04	-324.99	1,127.46	0.00	0.00	0.00
9,600.00	90.00	180.01	8,411.50	-1,218.04	-325.01	1,227.42	0.00	0.00	0.00
9,700.00	90.00	180.01	8,411.50	-1,318.04	-325.04	1,327.37	0.00	0.00	0.00
9,800.00	90.00	180.01	8,411.50	-1,418.04	-325.06	1,427.32	0.00	0.00	0.00
9,900.00	90.00	180.01	8,411.50	-1,518.04	-325.09	1,527.28	0.00	0.00	0.00
10,000.00	90.00	180.01	8,411.50	-1,618.04	-325.12	1,627.23	0.00	0.00	0.00
10,100.00	90.00	180.01	8,411.50	-1,718.04	-325.14	1,727.19	0.00	0.00	0.00
10,200.00	90.00	180.01	8,411.50	-1,818.04	-325.17	1,827.14	0.00	0.00	0.00
10,300.00	90.00	180.01	8,411.50	-1,918.04	-325.19	1,927.09	0.00	0.00	0.00
10,400.00	90.00	180.01	8,411.50	-2,018.04	-325.22	2,027.05	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 701H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB @ 3466.50usft (TBD)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	RKB @ 3466.50usft (TBD)
Site:	Rena 7 State	North Reference:	Grid
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 05-08-20		

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)	
10,500.00	90.00	180.01	8,411.50	-2,118.04	-325.24	2,127.00	0.00	0.00	0.00	
10,600.00	90.00	180.01	8,411.50	-2,218.04	-325.27	2,226.96	0.00	0.00	0.00	
10,700.00	90.00	180.01	8,411.50	-2,318.04	-325.29	2,326.91	0.00	0.00	0.00	
10,800.00	90.00	180.01	8,411.50	-2,418.04	-325.32	2,426.86	0.00	0.00	0.00	
10,900.00	90.00	180.01	8,411.50	-2,518.04	-325.34	2,526.82	0.00	0.00	0.00	
11,000.00	90.00	180.01	8,411.50	-2,618.04	-325.37	2,626.77	0.00	0.00	0.00	
11,100.00	90.00	180.01	8,411.50	-2,718.04	-325.39	2,726.73	0.00	0.00	0.00	
11,200.00	90.00	180.01	8,411.50	-2,818.04	-325.42	2,826.68	0.00	0.00	0.00	
11,300.00	90.00	180.01	8,411.50	-2,918.04	-325.44	2,926.63	0.00	0.00	0.00	
11,400.00	90.00	180.01	8,411.50	-3,018.04	-325.47	3,026.59	0.00	0.00	0.00	
11,500.00	90.00	180.01	8,411.50	-3,118.04	-325.49	3,126.54	0.00	0.00	0.00	
11,600.00	90.00	180.01	8,411.50	-3,218.04	-325.52	3,226.49	0.00	0.00	0.00	
11,700.00	90.00	180.01	8,411.50	-3,318.04	-325.54	3,326.45	0.00	0.00	0.00	
11,800.00	90.00	180.01	8,411.50	-3,418.04	-325.57	3,426.40	0.00	0.00	0.00	
11,900.00	90.00	180.01	8,411.50	-3,518.04	-325.59	3,526.36	0.00	0.00	0.00	
12,000.00	90.00	180.01	8,411.50	-3,618.04	-325.62	3,626.31	0.00	0.00	0.00	
12,100.00	90.00	180.01	8,411.50	-3,718.04	-325.64	3,726.26	0.00	0.00	0.00	
12,200.00	90.00	180.01	8,411.50	-3,818.04	-325.67	3,826.22	0.00	0.00	0.00	
12,300.00	90.00	180.01	8,411.50	-3,918.04	-325.69	3,926.17	0.00	0.00	0.00	
12,400.00	90.00	180.01	8,411.50	-4,018.04	-325.72	4,026.13	0.00	0.00	0.00	
12,500.00	90.00	180.01	8,411.50	-4,118.04	-325.74	4,126.08	0.00	0.00	0.00	
12,600.00	90.00	180.01	8,411.50	-4,218.04	-325.77	4,226.03	0.00	0.00	0.00	
12,700.00	90.00	180.01	8,411.50	-4,318.04	-325.80	4,325.99	0.00	0.00	0.00	
12,800.00	90.00	180.01	8,411.50	-4,418.04	-325.82	4,425.94	0.00	0.00	0.00	
12,900.00	90.00	180.01	8,411.50	-4,518.04	-325.85	4,525.90	0.00	0.00	0.00	
13,000.00	90.00	180.01	8,411.50	-4,618.04	-325.87	4,625.85	0.00	0.00	0.00	
13,100.00	90.00	180.01	8,411.50	-4,718.04	-325.90	4,725.80	0.00	0.00	0.00	
13,200.00	90.00	180.01	8,411.50	-4,818.04	-325.92	4,825.76	0.00	0.00	0.00	
13,300.00	90.00	180.01	8,411.50	-4,918.04	-325.95	4,925.71	0.00	0.00	0.00	
13,400.00	90.00	180.01	8,411.50	-5,018.04	-325.97	5,025.66	0.00	0.00	0.00	
13,500.00	90.00	180.01	8,411.50	-5,118.04	-326.00	5,125.62	0.00	0.00	0.00	
13,600.00	90.00	180.01	8,411.50	-5,218.04	-326.02	5,225.57	0.00	0.00	0.00	
13,700.00	90.00	180.01	8,411.50	-5,318.04	-326.05	5,325.53	0.00	0.00	0.00	
13,800.00	90.00	180.01	8,411.50	-5,418.04	-326.07	5,425.48	0.00	0.00	0.00	
13,900.00	90.00	180.01	8,411.50	-5,518.04	-326.10	5,525.43	0.00	0.00	0.00	
14,000.00	90.00	180.01	8,411.50	-5,618.04	-326.12	5,625.39	0.00	0.00	0.00	
14,100.00	90.00	180.01	8,411.50	-5,718.04	-326.15	5,725.34	0.00	0.00	0.00	
14,200.00	90.00	180.01	8,411.50	-5,818.04	-326.17	5,825.30	0.00	0.00	0.00	
14,300.00	90.00	180.01	8,411.50	-5,918.04	-326.20	5,925.25	0.00	0.00	0.00	
14,400.00	90.00	180.01	8,411.50	-6,018.04	-326.22	6,025.20	0.00	0.00	0.00	
14,500.00	90.00	180.01	8,411.50	-6,118.04	-326.25	6,125.16	0.00	0.00	0.00	
14,600.00	90.00	180.01	8,411.50	-6,218.04	-326.27	6,225.11	0.00	0.00	0.00	
14,700.00	90.00	180.01	8,411.50	-6,318.04	-326.30	6,325.07	0.00	0.00	0.00	
14,800.00	90.00	180.01	8,411.50	-6,418.04	-326.32	6,425.02	0.00	0.00	0.00	
14,900.00	90.00	180.01	8,411.50	-6,518.04	-326.35	6,524.97	0.00	0.00	0.00	
15,000.00	90.00	180.01	8,411.50	-6,618.04	-326.37	6,624.93	0.00	0.00	0.00	
15,100.00	90.00	180.01	8,411.50	-6,718.04	-326.40	6,724.88	0.00	0.00	0.00	
15,200.00	90.00	180.01	8,411.50	-6,818.04	-326.43	6,824.83	0.00	0.00	0.00	
15,300.00	90.00	180.01	8,411.50	-6,918.04	-326.45	6,924.79	0.00	0.00	0.00	
15,400.00	90.00	180.01	8,411.50	-7,018.04	-326.48	7,024.74	0.00	0.00	0.00	
15,500.00	90.00	180.01	8,411.50	-7,118.04	-326.50	7,124.70	0.00	0.00	0.00	
15,600.00	90.00	180.01	8,411.50	-7,218.04	-326.53	7,224.65	0.00	0.00	0.00	
15,700.00	90.00	180.01	8,411.50	-7,318.04	-326.55	7,324.60	0.00	0.00	0.00	
15,800.00	90.00	180.01	8,411.50	-7,418.04	-326.58	7,424.56	0.00	0.00	0.00	



Planning Report



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Company:	Flat Creek Resources, LLC	TVD Reference:	RKB @ 3466.50usft (TBD)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	RKB @ 3466.50usft (TBD)
Site:	Rena 7 State	North Reference:	Grid
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 05-08-20		

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)	
15,900.00	90.00	180.01	8,411.50	-7,518.04	-326.60	7,524.51	0.00	0.00	0.00	
16,000.00	90.00	180.01	8,411.50	-7,618.04	-326.63	7,624.47	0.00	0.00	0.00	
16,100.00	90.00	180.01	8,411.50	-7,718.04	-326.65	7,724.42	0.00	0.00	0.00	
16,200.00	90.00	180.01	8,411.50	-7,818.04	-326.68	7,824.37	0.00	0.00	0.00	
16,300.00	90.00	180.01	8,411.50	-7,918.04	-326.70	7,924.33	0.00	0.00	0.00	
16,400.00	90.00	180.01	8,411.50	-8,018.04	-326.73	8,024.28	0.00	0.00	0.00	
16,500.00	90.00	180.01	8,411.50	-8,118.04	-326.75	8,124.24	0.00	0.00	0.00	
16,600.00	90.00	180.01	8,411.50	-8,218.04	-326.78	8,224.19	0.00	0.00	0.00	
16,700.00	90.00	180.01	8,411.50	-8,318.04	-326.80	8,324.14	0.00	0.00	0.00	
16,800.00	90.00	180.01	8,411.50	-8,418.04	-326.83	8,424.10	0.00	0.00	0.00	
16,900.00	90.00	180.01	8,411.50	-8,518.04	-326.85	8,524.05	0.00	0.00	0.00	
17,000.00	90.00	180.01	8,411.50	-8,618.04	-326.88	8,624.00	0.00	0.00	0.00	
17,100.00	90.00	180.01	8,411.50	-8,718.04	-326.90	8,723.96	0.00	0.00	0.00	
17,200.00	90.00	180.01	8,411.50	-8,818.04	-326.93	8,823.91	0.00	0.00	0.00	
17,300.00	90.00	180.01	8,411.50	-8,918.04	-326.95	8,923.87	0.00	0.00	0.00	
17,400.00	90.00	180.01	8,411.50	-9,018.04	-326.98	9,023.82	0.00	0.00	0.00	
17,500.00	90.00	180.01	8,411.50	-9,118.04	-327.00	9,123.77	0.00	0.00	0.00	
17,600.00	90.00	180.01	8,411.50	-9,218.04	-327.03	9,223.73	0.00	0.00	0.00	
17,700.00	90.00	180.01	8,411.50	-9,318.04	-327.05	9,323.68	0.00	0.00	0.00	
17,800.00	90.00	180.01	8,411.50	-9,418.04	-327.08	9,423.64	0.00	0.00	0.00	
17,900.00	90.00	180.01	8,411.50	-9,518.04	-327.11	9,523.59	0.00	0.00	0.00	
18,000.00	90.00	180.01	8,411.50	-9,618.04	-327.13	9,623.54	0.00	0.00	0.00	
18,100.00	90.00	180.01	8,411.50	-9,718.04	-327.16	9,723.50	0.00	0.00	0.00	
18,200.00	90.00	180.01	8,411.50	-9,818.04	-327.18	9,823.45	0.00	0.00	0.00	
18,300.00	90.00	180.01	8,411.50	-9,918.04	-327.21	9,923.41	0.00	0.00	0.00	
18,400.00	90.00	180.01	8,411.50	-10,018.04	-327.23	10,023.36	0.00	0.00	0.00	
18,500.00	90.00	180.01	8,411.50	-10,118.04	-327.26	10,123.31	0.00	0.00	0.00	
18,600.00	90.00	180.01	8,411.50	-10,218.04	-327.28	10,223.27	0.00	0.00	0.00	
18,700.00	90.00	180.01	8,411.50	-10,318.04	-327.31	10,323.22	0.00	0.00	0.00	
18,800.00	90.00	180.01	8,411.50	-10,418.04	-327.33	10,423.17	0.00	0.00	0.00	
18,900.00	90.00	180.01	8,411.50	-10,518.04	-327.36	10,523.13	0.00	0.00	0.00	
19,000.00	90.00	180.01	8,411.50	-10,618.04	-327.38	10,623.08	0.00	0.00	0.00	
19,069.86	90.00	180.01	8,411.50	-10,687.90	-327.40	10,692.91	0.00	0.00	0.00	
TD at 19069.86										

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 - Rena 7 State 701I	0.00	0.01	8,411.50	-10,687.90	-327.40	471,804.70	539,432.50	32° 17' 49.432173 N	104° 20' 22.195292 W	
- plan hits target center										
- Point										
FTP - Rena 7 State 701I	0.00	0.01	8,411.50	-367.70	-324.80	482,124.90	539,435.10	32° 19' 31.560132 N	104° 20' 22.171908 W	
- plan hits target center										
- Point										



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well 701H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB @ 3466.50usft (TBD)
Project:	Eddy County, NM (NAD83 NME)	MD Reference:	RKB @ 3466.50usft (TBD)
Site:	Rena 7 State	North Reference:	Grid
Well:	701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 2 05-08-20		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
26.50	26.50	TANSILL		0.00	181.75	
1,295.81	1,295.50	LAMAR		0.00	181.75	
1,557.26	1,556.50	BELL CANYON/DELAWARE SAND		0.00	181.75	
2,361.63	2,359.50	CHERRY CANYON		0.00	181.75	
3,343.30	3,339.50	BRUSHY CANYON		0.00	181.75	
4,862.89	4,856.50	BONE SPRING		0.00	181.75	
5,768.44	5,760.50	1ST BONE SPRING SAND		0.00	181.75	
6,170.12	6,161.50	2ND BONE SPRING SAND		0.00	181.75	
8,117.24	8,096.50	3RD BONE SPRING SAND		0.00	181.75	
8,749.66	8,411.50	LANDPOINT		0.00	181.75	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,167.26	1,167.17	2.61	-4.13	Hold 3.35° Inc at 302.30° Azm	
7,582.40	7,571.37	202.65	-320.53	Begin 2.00°/100' Drop	
7,749.66	7,738.54	205.26	-324.66	Begin Vertical Hold	
7,849.66	7,838.54	205.26	-324.66	KOP2, Begin 10.00°/100' Build	
8,749.66	8,411.50	-367.70	-324.80	LP, Hold 90.00° Inc at 180.01° Azm	
19,069.86	8,411.50	-10,687.90	-327.40	TD at 19069.86	