

Well Name: JAWBONE FED COM LW	Well Location: T25S / R26E / SEC 2 / SWSW /	County or Parish/State:
Well Number: 16H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0441951	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549665	Well Status: Approved Application for Permit to Drill	Operator: FLAT CREEK RESOURCES LLC

Notice of Intent

Sundry ID: 2768313

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 01/04/2024	Time Sundry Submitted: 03:43
Date proposed operation will begin: 01/15/2024	

Procedure Description: Well type has changed from gas to oil. Zone has changed from Wolfcamp to Bone Spring. TVD has changed from 9350' to 6480'. MD has changed from 19471' to 16875' BHL was at 330' FNL and 1660' FWL 35-24s-26e. BHL has now moved 1164' NW to 50' FNL & 530' FWL 35-24s-26e. No change in SHL. No change in pad footprint. Revised drilling documents attached.

NOI Attachments

Procedure Description

- 5.5in_Casing_Spec_20240104154141.pdf
- Jawbone_LW_16H_Casing_Design_Assumptions_RDC_20240104154124.pdf
- Jawbone_LW_16H_AntiCollision_Report_20240104154112.pdf
- Jawbone_LW_16H_Horizontal_Plan_20240104154102.pdf
- Jawbone_LW_16H_C102_20240104154050.pdf
- Jawbone_LW_16H_Drill_Plan_20240104154034.pdf

Well Name: JAWBONE FED COM LW	Well Location: T25S / R26E / SEC 2 / SWSW /	County or Parish/State:
Well Number: 16H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0441951	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549665	Well Status: Approved Application for Permit to Drill	Operator: FLAT CREEK RESOURCES LLC

Conditions of Approval

Specialist Review

Jawbone_Fed_Com_LW_16H_Sundry_ID_2768313_20240105123741.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: BRIAN WOOD	Signed on: JAN 04, 2024 03:40 PM
Name: FLAT CREEK RESOURCES LLC	
Title: President	
Street Address: 37 VERANO LOOP	
City: SANTA FE	State: NM
Phone: (505) 466-8120	
Email address: AFMSS@PERMITSWEST.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: LONG VO	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5759885402	BLM POC Email Address: LVO@BLM.GOV
Disposition: Approved	Disposition Date: 01/05/2024
Signature: Long Vo	

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 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 & 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

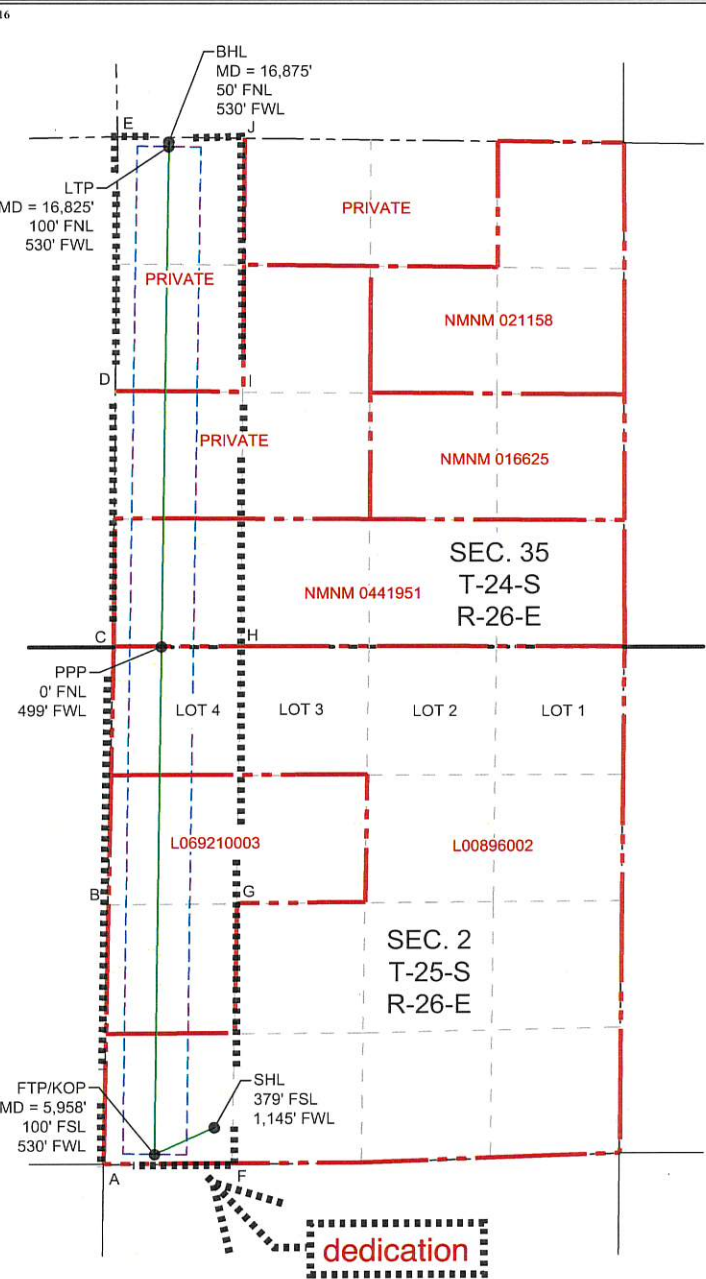
¹ API Number 30-015- 49665	² Pool Code 97494	³ Pool Name COTTONWOOD DRAW; BONE SPRING (O)
⁴ Property Code JAWBONE FEDERAL COM LW	⁵ Property Name JAWBONE FED COM LW	⁶ Well Number 16H
⁷ OGRID No. 374034	⁸ Operator Name FLAT CREEK RESOURCES, LLC	⁹ Elevation 3,381'

¹⁰ Surface Location									
UL or lot no. M	Section 2	Township 25 S	Range 26 E	Lot Idn	Feet from the 379	North/South line SOUTH	Feet from the 1,145	East/West line WEST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. D	Section 35	Township 24 S	Range 26 E	Lot Idn	Feet from the 50	North/South line NORTH	Feet from the 530	East/West line WEST	County EDDY

¹² Dedicated Acres 319.96	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.



LEGEND	
	SECTION LINE
	PROPOSED WELL BORE
	NEW MEXICO MINERAL LEASE
	330' BUFFER
	ALLOCATION AREA

LOT ACREAGE TABLE
SECTION 2
T-25-S, R-26-E
LOT 1 = 40.20 ACRES
LOT 2 = 40.12 ACRES
LOT 3 = 40.04 ACRES
LOT 4 = 39.96 ACRES

COORDINATE TABLE	
SHL (NAD 83 NME)	SHL (NAD 27 NME)
Y = 419,259.2 N	Y = 419,201.8 N
X = 561,286.8 E	X = 520,104.7 E
LAT. = 32.152605 °N	LAT. = 32.152486 °N
LONG. = 104.268871 °W	LONG. = 104.268371 °W
FTP/KOP (NAD 83 NME)	FTP/KOP (NAD 27 NME)
Y = 418,978.5 N	Y = 418,921.1 N
X = 560,665.8 E	X = 519,483.6 E
LAT. = 32.151835 °N	LAT. = 32.151715 °N
LONG. = 104.270879 °W	LONG. = 104.270378 °W
PPP (NAD 83 NME)	PPP (NAD 27 NME)
Y = 424,292.7 N	Y = 424,235.3 N
X = 560,741.0 E	X = 519,558.9 E
LAT. = 32.166443 °N	LAT. = 32.166324 °N
LONG. = 104.270626 °W	LONG. = 104.270125 °W
LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y = 429,517.7 N	Y = 429,460.1 N
X = 560,814.9 E	X = 519,633.0 E
LAT. = 32.180806 °N	LAT. = 32.180687 °N
LONG. = 104.270377 °W	LONG. = 104.269875 °W
BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y = 429,567.7 N	Y = 429,510.1 N
X = 560,815.7 E	X = 519,633.7 E
LAT. = 32.180944 °N	LAT. = 32.180824 °N
LONG. = 104.270374 °W	LONG. = 104.269873 °W
CORNER COORDINATES (NAD 83 NME)	
A - Y = 418,877.2 N	A - X = 560,133.5 E
B - Y = 421,595.9 N	B - X = 560,189.3 E
C - Y = 424,292.6 N	C - X = 560,241.8 E
D - Y = 426,958.6 N	D - X = 560,264.0 E
E - Y = 429,624.7 N	E - X = 560,286.1 E
F - Y = 418,880.5 N	F - X = 561,471.8 E
G - Y = 421,603.9 N	G - X = 561,520.5 E
H - Y = 424,293.0 N	H - X = 561,567.2 E
I - Y = 426,948.3 N	I - X = 561,583.0 E
J - Y = 429,607.3 N	J - X = 561,598.9 E
CORNER COORDINATES (NAD 27 NME)	
A - Y = 418,819.8 N	A - X = 518,951.4 E
B - Y = 421,538.5 N	B - X = 519,007.2 E
C - Y = 424,235.1 N	C - X = 519,059.8 E
D - Y = 426,901.1 N	D - X = 519,082.0 E
E - Y = 429,567.1 N	E - X = 519,104.2 E
F - Y = 418,823.1 N	F - X = 520,289.7 E
G - Y = 421,546.5 N	G - X = 520,338.4 E
H - Y = 424,235.5 N	H - X = 520,385.1 E
I - Y = 426,890.7 N	I - X = 520,401.0 E
J - Y = 429,549.7 N	J - X = 520,416.9 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.

Rodney Littleton 9/21/23
Signature Date

Rodney Littleton
Printed Name

rodney.littleton@flatcreekresources.com
E-mail Address

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.

09/21/2023
Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

AI 618.005002.00-12

FLAT CREEK
RESOURCES

Anticollision Report

Company:	Flat Creek Resources, LLC	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Reference Site:	Jawbone	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference	rev1		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,887.54ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	9/6/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	16,875.40	rev1 (Original Hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Jawbone						
Jawbone Fed Com LW 15H - Original Hole - rev1	1,000.00	1,001.00	20.03	12.60	2.696	CC, ES, SF

Offset Design: Jawbone - Jawbone Fed Com LW 15H - Original Hole - rev1													Offset Site Error: 0.00 ft	
Survey Program: 0-MWD				Rule Assigned:					Offset Well Error: 0.00 ft					
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	1.00	1.00	0.00	0.00	32.98	16.80	10.90	20.03					
100.00	100.00	101.00	101.00	0.42	0.43	32.98	16.80	10.90	20.03	19.18	0.85	23.676		
200.00	200.00	201.00	201.00	1.25	1.25	32.98	16.80	10.90	20.03	17.53	2.50	8.012		
300.00	300.00	301.00	301.00	1.74	1.75	32.98	16.80	10.90	20.03	16.54	3.49	5.738		
400.00	400.00	401.00	401.00	2.13	2.13	32.98	16.80	10.90	20.03	15.76	4.26	4.699		
500.00	500.00	501.00	501.00	2.46	2.46	32.98	16.80	10.90	20.03	15.11	4.92	4.070		
600.00	600.00	601.00	601.00	2.75	2.75	32.98	16.80	10.90	20.03	14.52	5.50	3.638		
700.00	700.00	701.00	701.00	3.02	3.02	32.98	16.80	10.90	20.03	13.99	6.04	3.317		
800.00	800.00	801.00	801.00	3.26	3.27	32.98	16.80	10.90	20.03	13.50	6.53	3.067		
900.00	900.00	901.00	901.00	3.50	3.50	32.98	16.80	10.90	20.03	13.03	6.99	2.864		
1,000.00	1,000.00	1,001.00	1,001.00	3.71	3.72	32.98	16.80	10.90	20.03	12.60	7.43	2.696	CC, ES, SF	
1,100.00	1,099.98	1,100.98	1,100.98	4.02	3.92	149.79	16.80	10.90	21.52	13.64	7.88	2.731		
1,200.00	1,199.84	1,200.84	1,200.84	4.78	4.12	155.53	16.80	10.90	26.17	17.41	8.77	2.986		
1,300.00	1,299.45	1,301.60	1,301.58	5.46	4.40	160.97	15.85	9.37	32.55	22.84	9.71	3.353		
1,400.00	1,398.70	1,402.60	1,402.43	6.09	5.11	165.26	13.04	4.80	39.01	27.93	11.07	3.523		
1,500.00	1,497.55	1,503.87	1,503.30	6.30	5.74	168.75	8.35	-2.81	45.00	33.06	11.94	3.768		
1,600.00	1,596.35	1,604.10	1,602.89	6.53	5.89	171.40	2.44	-12.39	49.05	36.69	12.36	3.968		
1,700.00	1,695.14	1,703.99	1,702.15	6.79	6.10	173.63	-3.48	-22.01	53.11	40.25	12.86	4.130		
1,800.00	1,793.94	1,803.89	1,801.41	7.07	6.34	175.54	-9.41	-31.62	57.24	43.85	13.39	4.275		
1,900.00	1,892.74	1,903.79	1,900.66	7.37	6.59	177.19	-15.34	-41.24	61.43	47.47	13.95	4.403		
2,000.00	1,991.54	2,003.69	1,999.92	7.68	6.86	178.63	-21.27	-50.86	65.66	51.12	14.54	4.517		
2,100.00	2,090.33	2,103.59	2,099.18	8.00	7.14	179.90	-27.19	-60.47	69.92	54.78	15.15	4.617		
2,200.00	2,189.13	2,203.48	2,198.43	8.33	7.44	-178.98	-33.12	-70.09	74.22	58.45	15.77	4.705		
2,300.00	2,287.93	2,303.38	2,297.69	8.68	7.74	-177.99	-39.05	-79.71	78.54	62.12	16.42	4.783		
2,400.00	2,386.72	2,403.28	2,396.95	9.03	8.06	-177.09	-44.98	-89.32	82.89	65.80	17.08	4.852		
2,500.00	2,485.52	2,503.18	2,496.21	9.39	8.38	-176.29	-50.90	-98.94	87.25	69.49	17.76	4.913		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



FLAT CREEK
RESOURCES

Anticollision Report

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Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Jawbone - Jawbone Fed Com LW 15H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor	
2,600.00	2,584.32	2,603.07	2,595.46	9.76	8.71	-175.56	-56.83	-108.56	91.62	73.18	18.45	4.967	
2,700.00	2,683.11	2,702.97	2,694.72	10.13	9.05	-174.90	-62.76	-118.17	96.01	76.87	19.15	5.015	
2,800.00	2,781.91	2,802.87	2,793.98	10.51	9.39	-174.30	-68.69	-127.79	100.42	80.56	19.86	5.057	
2,900.00	2,880.71	2,902.77	2,893.23	10.89	9.74	-173.75	-74.61	-137.40	104.83	84.25	20.58	5.095	
3,000.00	2,979.51	3,002.67	2,992.49	11.28	10.09	-173.24	-80.54	-147.02	109.25	87.95	21.30	5.129	
3,100.00	3,078.30	3,102.56	3,091.75	11.67	10.45	-172.77	-86.47	-156.64	113.68	91.64	22.04	5.159	
3,200.00	3,177.10	3,202.46	3,191.00	12.07	10.81	-172.34	-92.40	-166.25	118.11	95.34	22.78	5.186	
3,300.00	3,275.90	3,302.36	3,290.26	12.47	11.18	-171.94	-98.32	-175.87	122.56	99.04	23.52	5.210	
3,400.00	3,374.69	3,402.26	3,389.52	12.87	11.55	-171.57	-104.25	-185.49	127.00	102.73	24.27	5.232	
3,500.00	3,473.49	3,502.15	3,488.78	13.28	11.92	-171.22	-110.18	-195.10	131.46	106.43	25.03	5.252	
3,600.00	3,572.29	3,602.05	3,588.03	13.68	12.29	-170.89	-116.11	-204.72	135.91	110.13	25.79	5.270	
3,700.00	3,671.08	3,701.95	3,687.29	14.09	12.67	-170.59	-122.03	-214.34	140.38	113.82	26.55	5.287	
3,800.00	3,769.88	3,801.85	3,786.55	14.51	13.05	-170.30	-127.96	-223.95	144.84	117.52	27.32	5.302	
3,900.00	3,868.68	3,901.74	3,885.80	14.92	13.43	-170.03	-133.89	-233.57	149.31	121.22	28.09	5.316	
4,000.00	3,967.47	4,001.64	3,985.06	15.33	13.81	-169.78	-139.82	-243.19	153.78	124.92	28.86	5.328	
4,100.00	4,066.27	4,101.54	4,084.32	15.75	14.20	-169.54	-145.74	-252.80	158.26	128.62	29.64	5.340	
4,200.00	4,165.07	4,201.44	4,183.57	16.17	14.58	-169.32	-151.67	-262.42	162.73	132.32	30.42	5.350	
4,300.00	4,263.87	4,301.34	4,282.83	16.59	14.97	-169.10	-157.60	-272.04	167.21	136.01	31.20	5.360	
4,400.00	4,362.66	4,401.23	4,382.09	17.01	15.36	-168.90	-163.53	-281.65	171.69	139.71	31.98	5.369	
4,500.00	4,461.46	4,501.13	4,481.35	17.43	15.75	-168.71	-169.45	-291.27	176.18	143.41	32.77	5.377	
4,600.00	4,560.26	4,601.03	4,580.60	17.86	16.14	-168.53	-175.38	-300.88	180.66	147.11	33.55	5.385	
4,700.00	4,659.05	4,700.93	4,679.86	18.28	16.53	-168.35	-181.31	-310.50	185.15	150.81	34.34	5.392	
4,800.00	4,757.85	4,800.82	4,779.12	18.70	16.92	-168.19	-187.24	-320.12	189.64	154.51	35.13	5.398	
4,900.00	4,856.65	4,900.72	4,878.37	19.13	17.32	-168.03	-193.16	-329.73	194.13	158.21	35.92	5.404	
5,000.00	4,955.44	5,000.62	4,977.63	19.56	17.71	-167.88	-199.09	-339.35	198.62	161.91	36.71	5.410	
5,100.00	5,054.24	5,100.52	5,076.89	19.99	18.11	-167.73	-205.02	-348.97	203.11	165.61	37.51	5.415	
5,200.00	5,153.04	5,200.42	5,176.14	20.41	18.50	-167.60	-210.95	-358.58	207.61	169.31	38.30	5.420	
5,300.00	5,251.83	5,300.31	5,275.40	20.84	18.90	-167.46	-216.87	-368.20	212.10	173.01	39.10	5.425	
5,400.00	5,350.63	5,400.21	5,374.66	21.28	19.30	-167.34	-222.80	-377.82	216.60	176.70	39.90	5.429	
5,500.00	5,449.65	5,500.16	5,473.96	21.73	19.69	-167.14	-228.73	-387.44	219.61	178.90	40.70	5.395	
5,600.00	5,549.09	5,600.14	5,573.30	22.23	20.09	-166.73	-234.66	-397.06	219.23	177.70	41.53	5.279	
5,700.00	5,648.84	5,700.04	5,672.56	22.70	20.49	-166.08	-240.59	-406.68	215.47	173.18	42.29	5.095	
5,800.00	5,748.77	5,799.72	5,771.61	23.11	20.89	-165.15	-246.51	-416.27	208.37	165.42	42.95	4.852	
5,900.00	5,848.77	5,899.13	5,870.38	23.18	21.29	81.75	-252.40	-425.84	198.37	155.15	43.22	4.589	
6,000.00	5,948.73	5,998.36	5,968.97	23.17	21.69	83.21	-258.29	-435.40	187.84	144.54	43.30	4.338	
6,100.00	6,047.33	6,095.36	6,065.35	23.08	22.08	90.82	-264.05	-444.73	176.94	134.58	42.37	4.176	
6,191.52	6,133.90	6,179.59	6,149.04	22.98	22.42	101.99	-269.05	-452.84	171.83	131.95	39.87	4.309	
6,200.00	6,141.66	6,187.09	6,156.49	22.97	22.45	103.15	-269.49	-453.56	171.89	132.34	39.55	4.346	
6,300.00	6,228.87	6,268.90	6,237.85	22.87	22.79	116.23	-273.99	-460.87	183.83	148.80	35.03	5.248	
6,400.00	6,306.29	6,341.71	6,310.42	22.81	23.11	126.32	-277.01	-465.76	220.21	188.75	31.46	7.001	
6,500.00	6,371.59	6,404.11	6,372.73	22.82	23.39	131.92	-278.82	-468.69	278.85	248.65	30.20	9.235	
6,600.00	6,422.77	6,453.97	6,422.56	22.94	23.58	132.54	-279.75	-470.21	354.01	323.77	30.24	11.707	
6,700.00	6,458.28	6,489.29	6,457.87	23.18	23.72	126.60	-280.14	-470.84	440.42	409.76	30.66	14.367	
6,800.00	6,477.04	6,508.26	6,476.84	23.56	23.77	108.71	-280.25	-471.02	533.74	502.67	31.07	17.181	
6,900.00	6,480.00	6,510.98	6,479.56	24.07	23.78	89.45	-280.26	-471.04	630.24	598.84	31.40	20.069	
7,000.00	6,480.00	6,510.56	6,479.14	24.67	23.78	89.29	-280.26	-471.04	727.76	696.07	31.69	22.964	
7,100.00	6,480.00	6,510.12	6,478.70	25.34	23.78	89.12	-280.26	-471.03	825.87	793.93	31.93	25.862	
7,200.00	6,480.00	6,509.66	6,478.24	26.08	23.77	88.95	-280.26	-471.03	924.38	892.24	32.14	28.760	
7,300.00	6,480.00	6,509.18	6,477.76	26.89	23.77	88.77	-280.26	-471.03	1,023.18	990.86	32.32	31.659	
7,400.00	6,480.00	6,508.69	6,477.27	27.76	23.77	88.58	-280.25	-471.02	1,122.20	1,089.72	32.47	34.558	
7,500.00	6,480.00	6,508.17	6,476.74	28.69	23.77	88.38	-280.25	-471.02	1,221.37	1,188.76	32.61	37.455	
7,600.00	6,480.00	8,802.66	7,705.00	29.68	29.52	173.01	1,031.73	-452.50	1,233.15	1,192.41	40.74	30.266	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

FLAT CREEK
RESOURCES

Anticollision Report

Company:	Flat Creek Resources, LLC	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Reference Site:	Jawbone	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Jawbone - Jawbone Fed Com LW 15H - Original Hole - rev1											Offset Site Error:	0.00 ft
Survey Program: 0-MWD											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	
7,700.00	6,480.00	8,902.66	7,705.00	30.71	30.51	173.01	1,131.72	-451.08	1,233.16	1,191.24	41.91	29.422
7,800.00	6,480.00	9,002.66	7,705.00	31.80	31.55	173.01	1,231.71	-449.66	1,233.16	1,190.05	43.11	28.606
7,900.00	6,480.00	9,102.66	7,705.00	32.93	32.65	173.01	1,331.70	-448.25	1,233.16	1,188.83	44.33	27.818
8,000.00	6,480.00	9,202.66	7,705.00	34.09	33.79	173.01	1,431.69	-446.83	1,233.16	1,187.58	45.58	27.057
8,100.00	6,480.00	9,302.66	7,705.00	35.30	34.97	173.01	1,531.68	-445.41	1,233.16	1,186.31	46.84	26.325
8,200.00	6,480.00	9,402.66	7,705.00	36.54	36.19	173.01	1,631.67	-443.99	1,233.16	1,185.02	48.13	25.620
8,300.00	6,480.00	9,502.66	7,705.00	37.81	37.45	173.01	1,731.66	-442.57	1,233.16	1,183.72	49.44	24.943
8,400.00	6,480.00	9,602.66	7,705.00	39.10	38.73	173.01	1,831.65	-441.16	1,233.16	1,182.39	50.76	24.292
8,500.00	6,480.00	9,702.66	7,705.00	40.42	40.04	173.01	1,931.64	-439.74	1,233.16	1,181.05	52.10	23.668
8,600.00	6,480.00	9,802.66	7,705.00	41.77	41.38	173.01	2,031.63	-438.32	1,233.16	1,179.70	53.46	23.068
8,700.00	6,480.00	9,902.66	7,705.00	43.14	42.74	173.01	2,131.62	-436.90	1,233.16	1,178.33	54.83	22.492
8,800.00	6,480.00	10,002.66	7,705.00	44.52	44.13	173.01	2,231.61	-435.49	1,233.16	1,176.95	56.21	21.939
8,900.00	6,480.00	10,102.66	7,705.00	45.92	45.53	173.01	2,331.60	-434.07	1,233.16	1,175.55	57.60	21.409
9,000.00	6,480.00	10,202.66	7,705.00	47.34	46.95	173.01	2,431.59	-432.65	1,233.16	1,174.15	59.00	20.899
9,100.00	6,480.00	10,302.66	7,705.00	48.78	48.38	173.01	2,531.58	-431.23	1,233.16	1,172.74	60.42	20.410
9,200.00	6,480.00	10,402.66	7,705.00	50.22	49.83	173.01	2,631.57	-429.82	1,233.16	1,171.31	61.84	19.940
9,300.00	6,480.00	10,502.66	7,705.00	51.68	51.29	173.01	2,731.56	-428.40	1,233.16	1,169.88	63.28	19.489
9,400.00	6,480.00	10,602.66	7,705.00	53.15	52.76	173.01	2,831.55	-426.98	1,233.16	1,168.44	64.72	19.055
9,500.00	6,480.00	10,702.66	7,705.00	54.63	54.25	173.01	2,931.54	-425.56	1,233.16	1,166.99	66.16	18.638
9,600.00	6,480.00	10,802.66	7,705.00	56.12	55.74	173.01	3,031.53	-424.14	1,233.16	1,165.54	67.62	18.237
9,700.00	6,480.00	10,902.66	7,705.00	57.62	57.24	173.01	3,131.52	-422.73	1,233.16	1,164.07	69.08	17.851
9,800.00	6,480.00	11,002.66	7,705.00	59.13	58.75	173.01	3,231.51	-421.31	1,233.16	1,162.60	70.55	17.479
9,900.00	6,480.00	11,102.66	7,705.00	60.64	60.27	173.01	3,331.50	-419.89	1,233.16	1,161.13	72.03	17.121
10,000.00	6,480.00	11,202.66	7,705.00	62.17	61.80	173.01	3,431.49	-418.47	1,233.16	1,159.65	73.51	16.776
10,100.00	6,480.00	11,302.66	7,705.00	63.69	63.33	173.01	3,531.48	-417.06	1,233.16	1,158.16	74.99	16.444
10,200.00	6,480.00	11,402.66	7,705.00	65.23	64.87	173.01	3,631.47	-415.64	1,233.16	1,156.67	76.48	16.123
10,300.00	6,480.00	11,502.66	7,705.00	66.77	66.41	173.01	3,731.46	-414.22	1,233.16	1,155.18	77.98	15.814
10,400.00	6,480.00	11,602.66	7,705.00	68.31	67.96	173.01	3,831.45	-412.80	1,233.16	1,153.68	79.48	15.516
10,500.00	6,480.00	11,702.66	7,705.00	69.86	69.51	173.01	3,931.44	-411.39	1,233.16	1,152.18	80.98	15.228
10,600.00	6,480.00	11,802.66	7,705.00	71.42	71.07	173.01	4,031.43	-409.97	1,233.16	1,150.67	82.49	14.949
10,700.00	6,480.00	11,902.66	7,705.00	72.98	72.63	173.01	4,131.42	-408.55	1,233.16	1,149.16	84.00	14.680
10,800.00	6,480.00	12,002.66	7,705.00	74.54	74.20	173.01	4,231.41	-407.13	1,233.16	1,147.64	85.52	14.420
10,900.00	6,480.00	12,102.66	7,705.00	76.10	75.77	173.01	4,331.40	-405.72	1,233.16	1,146.12	87.03	14.169
11,000.00	6,480.00	12,202.66	7,705.00	77.67	77.34	173.01	4,431.39	-404.30	1,233.16	1,144.60	88.56	13.925
11,100.00	6,480.00	12,302.66	7,705.00	79.25	78.92	173.01	4,531.38	-402.88	1,233.16	1,143.08	90.08	13.690
11,200.00	6,480.00	12,402.66	7,705.00	80.82	80.50	173.01	4,631.37	-401.46	1,233.16	1,141.55	91.61	13.461
11,300.00	6,480.00	12,502.66	7,705.00	82.40	82.08	173.01	4,731.36	-400.04	1,233.16	1,140.02	93.14	13.240
11,400.00	6,480.00	12,602.66	7,705.00	83.98	83.66	173.01	4,831.35	-398.63	1,233.16	1,138.49	94.67	13.026
11,500.00	6,480.00	12,702.66	7,705.00	85.57	85.25	173.01	4,931.34	-397.21	1,233.16	1,136.95	96.21	12.818
11,600.00	6,480.00	12,802.66	7,705.00	87.16	86.84	173.01	5,031.33	-395.79	1,233.16	1,135.41	97.74	12.616
11,700.00	6,480.00	12,902.66	7,705.00	88.75	88.44	173.01	5,131.32	-394.37	1,233.16	1,133.87	99.28	12.421
11,800.00	6,480.00	13,002.66	7,705.00	90.34	90.03	173.01	5,231.31	-392.96	1,233.16	1,132.33	100.83	12.231
11,900.00	6,480.00	13,102.66	7,705.00	91.93	91.63	173.01	5,331.30	-391.54	1,233.16	1,130.79	102.37	12.046
12,000.00	6,480.00	13,202.66	7,705.00	93.53	93.22	173.01	5,431.29	-390.12	1,233.16	1,129.24	103.92	11.867
12,100.00	6,480.00	13,302.66	7,705.00	95.12	94.82	173.01	5,531.28	-388.70	1,233.16	1,127.69	105.46	11.693
12,200.00	6,480.00	13,402.66	7,705.00	96.72	96.43	173.01	5,631.27	-387.29	1,233.16	1,126.14	107.01	11.523
12,300.00	6,480.00	13,502.66	7,705.00	98.32	98.03	173.01	5,731.26	-385.87	1,233.16	1,124.59	108.56	11.359
12,400.00	6,480.00	13,602.66	7,705.00	99.93	99.64	173.01	5,831.25	-384.45	1,233.16	1,123.04	110.12	11.199
12,500.00	6,480.00	13,702.66	7,705.00	101.53	101.24	173.01	5,931.24	-383.03	1,233.16	1,121.49	111.67	11.043
12,600.00	6,480.00	13,802.66	7,705.00	103.14	102.85	173.01	6,031.23	-381.61	1,233.16	1,119.93	113.23	10.891
12,700.00	6,480.00	13,902.66	7,705.00	104.74	104.46	173.01	6,131.22	-380.20	1,233.16	1,118.37	114.78	10.743
12,800.00	6,480.00	14,002.66	7,705.00	106.35	106.07	173.01	6,231.21	-378.78	1,233.16	1,116.81	116.34	10.599

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

FLAT CREEK
RESOURCES

Anticollision Report

Company:	Flat Creek Resources, LLC	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Reference Site:	Jawbone	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Jawbone - Jawbone Fed Com LW 15H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
12,900.00	6,480.00	14,102.66	7,705.00	107.96	107.68	173.01	6,331.20	-377.36	1,233.16	1,115.25	117.90	10.459	
13,000.00	6,480.00	14,202.66	7,705.00	109.57	109.29	173.01	6,431.19	-375.94	1,233.16	1,113.69	119.47	10.322	
13,100.00	6,480.00	14,302.66	7,705.00	111.18	110.91	173.01	6,531.18	-374.53	1,233.16	1,112.13	121.03	10.189	
13,200.00	6,480.00	14,402.66	7,705.00	112.80	112.52	173.01	6,631.17	-373.11	1,233.16	1,110.56	122.59	10.059	
13,300.00	6,480.00	14,502.66	7,705.00	114.41	114.14	173.01	6,731.16	-371.69	1,233.16	1,109.00	124.16	9.932	
13,400.00	6,480.00	14,602.66	7,705.00	116.02	115.76	173.01	6,831.15	-370.27	1,233.16	1,107.43	125.72	9.808	
13,500.00	6,480.00	14,702.66	7,705.00	117.64	117.37	173.01	6,931.14	-368.86	1,233.16	1,105.87	127.29	9.688	
13,600.00	6,480.00	14,802.66	7,705.00	119.26	118.99	173.01	7,031.13	-367.44	1,233.16	1,104.30	128.86	9.570	
13,700.00	6,480.00	14,902.66	7,705.00	120.87	120.61	173.01	7,131.12	-366.02	1,233.16	1,102.73	130.43	9.455	
13,800.00	6,480.00	15,002.66	7,705.00	122.49	122.23	173.01	7,231.11	-364.60	1,233.16	1,101.16	132.00	9.342	
13,900.00	6,480.00	15,102.66	7,705.00	124.11	123.85	173.01	7,331.10	-363.18	1,233.16	1,099.59	133.57	9.232	
14,000.00	6,480.00	15,202.66	7,705.00	125.73	125.48	173.01	7,431.08	-361.77	1,233.16	1,098.02	135.14	9.125	
14,100.00	6,480.00	15,302.66	7,705.00	127.35	127.10	173.01	7,531.07	-360.35	1,233.16	1,096.44	136.71	9.020	
14,200.00	6,480.00	15,402.66	7,705.00	128.98	128.72	173.01	7,631.06	-358.93	1,233.16	1,094.87	138.29	8.917	
14,300.00	6,480.00	15,502.66	7,705.00	130.60	130.35	173.01	7,731.05	-357.51	1,233.16	1,093.30	139.86	8.817	
14,400.00	6,480.00	15,602.66	7,705.00	132.22	131.97	173.01	7,831.04	-356.10	1,233.16	1,091.72	141.44	8.719	
14,500.00	6,480.00	15,702.66	7,705.00	133.85	133.60	173.01	7,931.03	-354.68	1,233.16	1,090.14	143.01	8.623	
14,600.00	6,480.00	15,802.66	7,705.00	135.47	135.22	173.01	8,031.02	-353.26	1,233.16	1,088.57	144.59	8.529	
14,700.00	6,480.00	15,902.66	7,705.00	137.09	136.85	173.01	8,131.01	-351.84	1,233.16	1,086.99	146.17	8.437	
14,800.00	6,480.00	16,002.66	7,705.00	138.72	138.48	173.01	8,231.00	-350.43	1,233.16	1,085.41	147.74	8.347	
14,900.00	6,480.00	16,102.66	7,705.00	140.35	140.10	173.01	8,330.99	-349.01	1,233.16	1,083.83	149.32	8.258	
15,000.00	6,480.00	16,202.66	7,705.00	141.97	141.73	173.01	8,430.98	-347.59	1,233.16	1,082.26	150.90	8.172	
15,100.00	6,480.00	16,302.66	7,705.00	143.60	143.36	173.01	8,530.97	-346.17	1,233.16	1,080.68	152.48	8.087	
15,200.00	6,480.00	16,402.66	7,705.00	145.23	144.99	173.01	8,630.96	-344.75	1,233.16	1,079.09	154.06	8.004	
15,300.00	6,480.00	16,502.66	7,705.00	146.86	146.62	173.01	8,730.95	-343.34	1,233.16	1,077.51	155.64	7.923	
15,400.00	6,480.00	16,602.66	7,705.00	148.48	148.25	173.01	8,830.94	-341.92	1,233.16	1,075.93	157.23	7.843	
15,500.00	6,480.00	16,702.66	7,705.00	150.11	149.88	173.01	8,930.93	-340.50	1,233.16	1,074.35	158.81	7.765	
15,600.00	6,480.00	16,802.66	7,705.00	151.74	151.51	173.01	9,030.92	-339.08	1,233.16	1,072.77	160.39	7.688	
15,700.00	6,480.00	16,902.66	7,705.00	153.37	153.14	173.01	9,130.91	-337.67	1,233.16	1,071.18	161.97	7.613	
15,800.00	6,480.00	17,002.66	7,705.00	155.00	154.77	173.01	9,230.90	-336.25	1,233.16	1,069.60	163.56	7.540	
15,900.00	6,480.00	17,102.66	7,705.00	156.63	156.41	173.01	9,330.89	-334.83	1,233.16	1,068.02	165.14	7.467	
16,000.00	6,480.00	17,202.66	7,705.00	158.27	158.04	173.01	9,430.88	-333.41	1,233.16	1,066.43	166.73	7.396	
16,100.00	6,480.00	17,302.66	7,705.00	159.90	159.67	173.01	9,530.87	-332.00	1,233.16	1,064.85	168.31	7.327	
16,200.00	6,480.00	17,402.66	7,705.00	161.53	161.30	173.01	9,630.86	-330.58	1,233.16	1,063.26	169.90	7.258	
16,300.00	6,480.00	17,502.66	7,705.00	163.16	162.94	173.01	9,730.85	-329.16	1,233.16	1,061.68	171.48	7.191	
16,400.00	6,480.00	17,602.66	7,705.00	164.79	164.57	173.01	9,830.84	-327.74	1,233.16	1,060.09	173.07	7.125	
16,500.00	6,480.00	17,702.66	7,705.00	166.43	166.21	173.01	9,930.83	-326.32	1,233.16	1,058.50	174.66	7.061	
16,600.00	6,480.00	17,802.66	7,705.00	168.06	167.84	173.01	10,030.82	-324.91	1,233.16	1,056.92	176.24	6.997	
16,700.00	6,480.00	17,902.66	7,705.00	169.69	169.48	173.01	10,130.81	-323.49	1,233.16	1,055.33	177.83	6.934	
16,800.00	6,480.00	18,002.66	7,705.00	171.33	171.11	173.01	10,230.80	-322.07	1,233.16	1,053.74	179.42	6.873	
16,875.40	6,480.00	18,078.06	7,705.00	172.56	172.34	173.01	10,306.19	-321.00	1,233.16	1,052.55	180.61	6.828	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

FLAT CREEK
RESOURCES

Anticollision Report

Company:	Flat Creek Resources, LLC	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Reference Site:	Jawbone	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=3380+26.5 @ 3406.50ft

Offset Depths are relative to Offset Datum

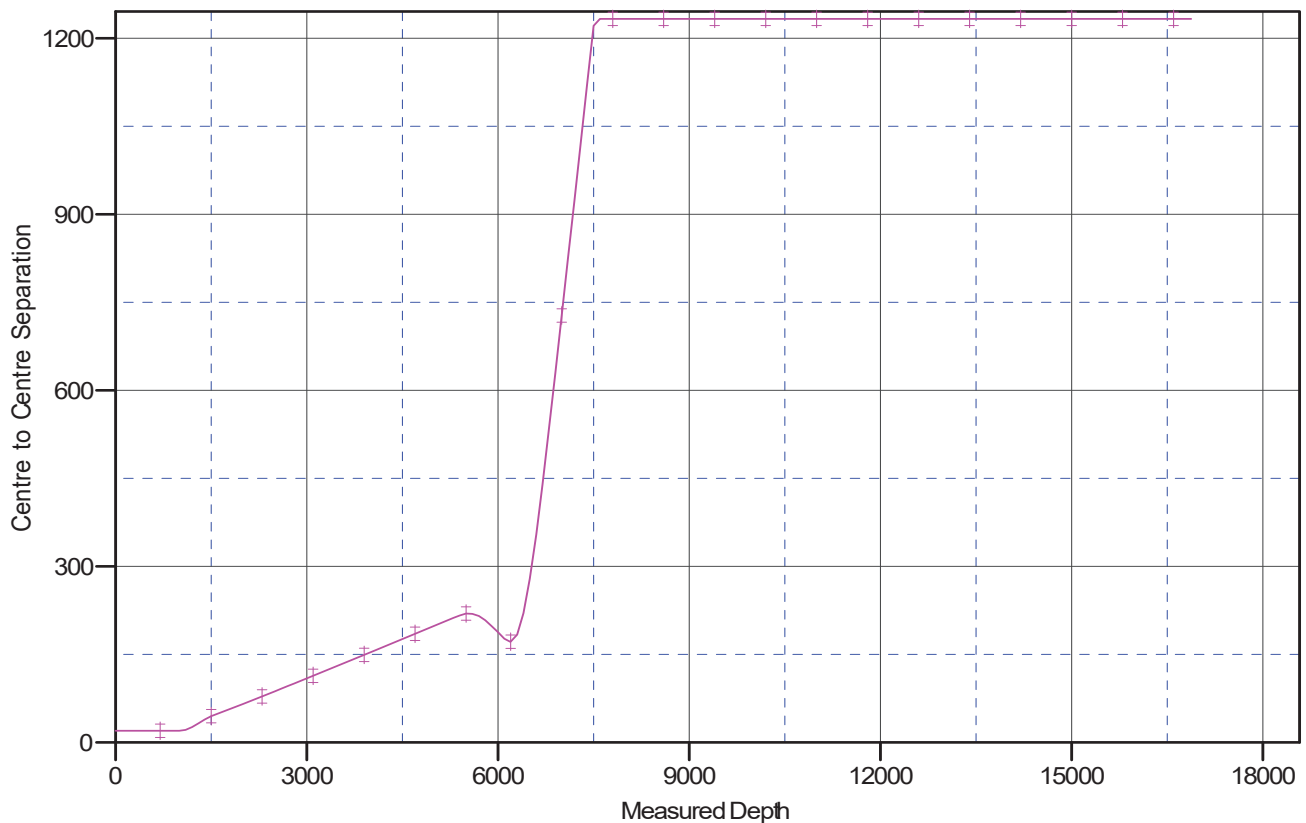
Central Meridian is -104.333333333

Coordinates are relative to: Jawbone Fed Com LW 16H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.03°

Ladder Plot



LEGEND

JawboneFed QzmLW 15HOriginalHolerev1 V0



FLAT CREEK
RESOURCES

Anticollision Report

Company:	Flat Creek Resources, LLC	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Project:	Eddy County, New Mexico NAD27 NME	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Reference Site:	Jawbone	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=3380+26.5 @ 3406.50ft

Offset Depths are relative to Offset Datum

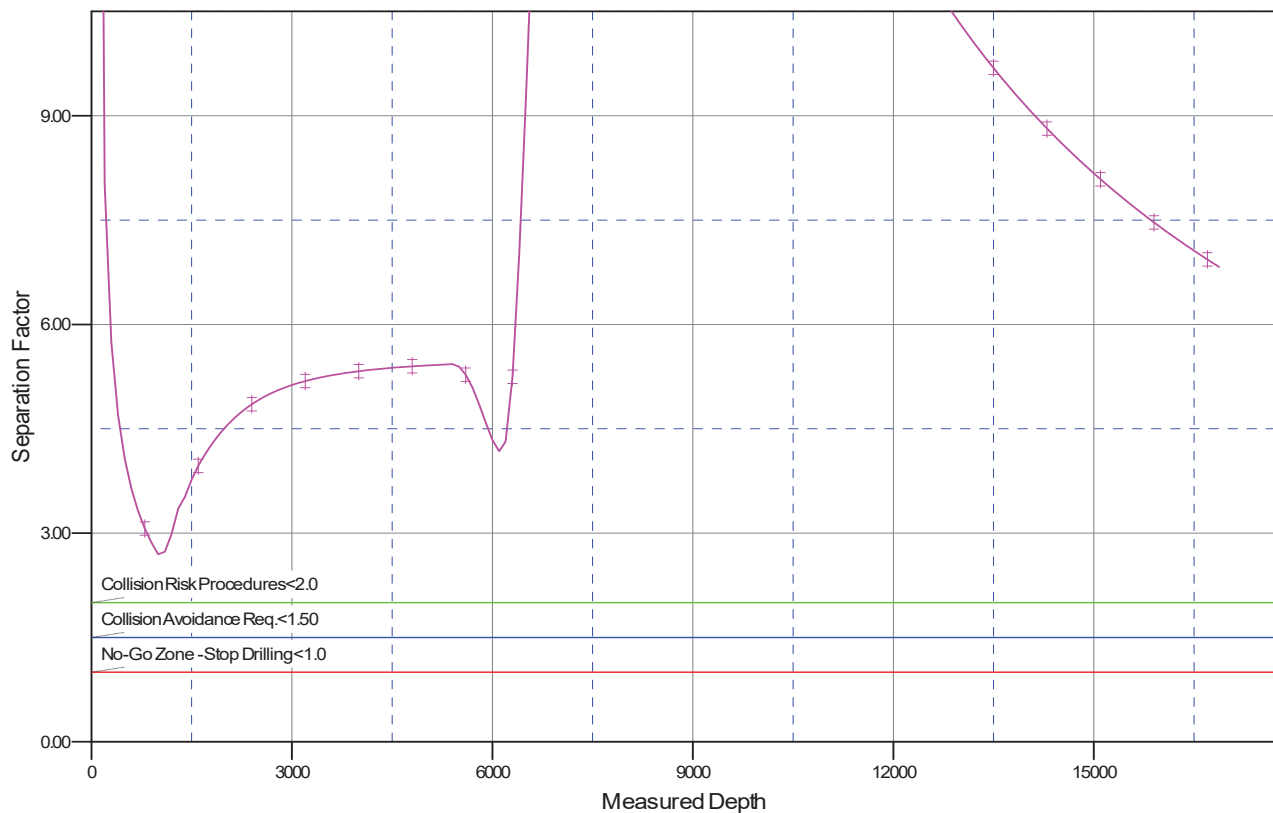
Central Meridian is -104.33333333

Coordinates are relative to: Jawbone Fed Com LW 16H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.03°

Separation Factor Plot



LEGEND

—●— JawboneFed GzmLW 16HOriginalHole rev1 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Flat Creek Resources, LLC
 Jawbone Federal Com 016H
 SHL: 379' FSL & 1145' FWL 2-25S-26E
 BHL: 50' FNL & 530' FWL 35-24S-26E
 Eddy County, NM

DRILL PLAN PAGE 1

30-015-49665

"fee/fee/Fed"

The well was originally permitted by Murchison. Well, not yet spudded, was subsequently acquired by Flat Creek which is proposing downhole changes. Well type will change from gas to oil. Zone will change from Wolfcamp to Bone Spring. TVD will change from 9350' to 6480'. MD will change from 19471' to 16875'. BHL will move 1164' NW from 330' FNL & 1660' FWL to 50' FNL & 530' FWL. No change in SHL or in pad footprint.

Drilling Program1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Salado salt	0'	0'	Fresh water
Base salt	1719'	1724'	N/A
Lamar limestone	1940'	1947'	N/A
Bell Canyon sandstone	1999'	2007'	hydrocarbons
Cherry Canyon sandstone	2839'	2857'	hydrocarbons
Brushy Canyon sandstone	3845'	3875'	hydrocarbons
Bone Spring limestone	5392'	5441'	hydrocarbons
(KOP	5907'	5958'	hydrocarbons)
First Bone Spring sandstone	6364'	6487'	hydrocarbons
TD	6480'	16875'	hydrocarbons

2. NOTABLE ZONES

First Bone Spring is the goal. Closest water well (C 01089) is 1.02 miles west. Water bearing strata were reported from 45' to 90' in the 96' deep well.

3. PRESSURE CONTROL

No change from original APD.

Flat Creek Resources, LLC
 Jawbone Federal Com 016H
 SHL: 379' FSL & 1145' FWL 2-25S-26E
 BHL: 50' FNL & 530' FWL 35-24S-26E
 Eddy County, NM

DRILL PLAN PAGE 2

30-015-49665

"fee/fee/Fed"

4. CASING & CEMENT

All casing will be new and API. No change in speed head from original APD.

Hole OD	Set MD	Set TVD	Casing OD	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
14.75"	0' – 300'	0' – 300'	10.75" surface	40.5	J-55	BTC	14.9	25.5	58.8
9.875"	0' – 1900'	0' – 1893'	7.625" intermediate	29.7	P-110 HC	BTC	7.2	7.0	12.1
6.75"	0' – 16875'	0' – 6480'	5.5" production	20	P-110 HC	TCBC-HT	3.1	3.3	3.9

Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	135	1.68	226	12.8	35/65 Poz Premium C + 5% salt + 6% bentonite gel + 0.4% CPT-503P + 1/8 #/sk Dura-fiber
	Tail	85	1.34	113	14.8	Class C + 1% CaCl ₂ + ¼ #/sk cellophane flakes
TOC = GL		100% Excess			Centralizers per Onshore Order 1	
Intermediate	Lead	270	1.68	453	12.8	35/65 Poz Premium C + 5% salt + 6% bentonite gel + 0.4% CPT-503P + 1/8 #/sk Dura-fiber
	Tail	85	1.74	147	13.5	Class C + 1% CaCl ₂ + 4% bentonite gel + 0.4% CPT-503P + 1/8 #/sk Dura-fiber
TOC = GL		50% excess			Bow spring centralizers	
Production	Lead	260	2.82	733	10.4	Class C + 10% light weight bead + 5% silica fume alternative + 0.2% suspension aid + 0.3% fluid loss additive + 0.3% dispersant + 0.2% retarder
	Tail	640	1.42	908	13.2	35/65 Poz Premium H + 0.2% CPT-23

Flat Creek Resources, LLC
 Jawbone Federal Com 016H
 SHL: 379' FSL & 1145' FWL 2-25S-26E
 BHL: 50' FNL & 530' FWL 35-24S-26E
 Eddy County, NM

DRILL PLAN PAGE 3

30-015-49665

"fee/fee/Fed"

TOC = GL	15% Excess	Bow & solid body centralizers
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5. MUD PROGRAM

A closed loop system will be used. An electronic pit volume totalizer (PVT) mud system complying with 43 CFR 3172 will monitor pit volumes for gains or losses, flow rate, pump pressures, and stroke rate. Sufficient mud materials (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase requirements will always be on site.

Hole	Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss
Surface	fresh water	0' - 300'	8.8	45 - 60	NC
Intermediate	cut brine	300' - 1900'	10.0	29 - 30	NC
Production	High performance water base	1900' - 16875'	9.4	34 - 38	6 - 8

6. CORES, TESTS, & LOGS

No core is planned. GR, MWD, and mud logs will be run.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 2916 psi. Expected bottom hole temperature is $\approx 141^\circ$ F.

An H₂S plan was attached to the original APD per 43 CFR 3176. H₂S monitoring equipment will be used from surface casing setting point to TD per 43 CFR 3176.

8. OTHER INFORMATION

Flat Creek Resources, LLC
Jawbone Federal Com 016H
SHL: 379' FSL & 1145' FWL 2-25S-26E
BHL: 50' FNL & 530' FWL 35-24S-26E
Eddy County, NM

DRILL PLAN PAGE 4
30-015-49665
"fee/fee/Fed"

Anticipated spud date is upon approval. It is expected it will take 1 - 2 months to drill and complete the well.



Well: Jawbone Fed Com LW 16H
Site: Jawbone
Project: Eddy County, New Mexico NAD27 NME
Design: rev1

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	KOP Begin 2"/100' build
3	1444.82	8.90	245.680	1443.04	-14.19	-31.41	2.00	-14.64	Begin 8.90° tangent
4	5406.41	8.90	245.680	5356.96	-266.51	-589.69	0.00	-274.84	Begin 2"/100' drop
5	5861.23	0.00	0.000	5800.00	-280.70	-621.10	2.00	-289.47	Begin vertical hold @ 5800.00 TVD
6	5931.23	0.00	0.000	5880.00	-280.70	-621.10	0.00	-289.47	
7	5958.27	0.00	0.000	5907.04	-280.70	-621.10	0.00	-289.47	Begin 10"/100' build
8	6858.27	90.00	0.812	6480.00	292.20	-612.98	10.00	283.48	Begin 90.00° lateral
9	16825.39	90.00	0.812	6480.00	10258.32	-471.71	0.00	10250.61	LTP @ 16825.39 MD 6480.00 TVD
10	16875.40	90.00	0.812	6480.00	10308.32	-471.00	0.00	10300.61	PBHL/TD @ 16875.40 MD 6480.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Jawbone 04 BHL 50 FNL 530 FWL r1	6480.00	10308.32	-471.00	429510.100	519633.700
- plan hits target center					
Jawbone 04 FTP 100 FSL 530 FWL r1	5880.00	-280.70	-621.10	418921.100	519483.600
- plan hits target center					
Jawbone 04 LTP 100 FNL 530 FWL r1	6480.00	10258.32	-471.40	429460.100	519633.300
- plan misses target center by 0.31ft at 16825.39ft MD (6480.00 TVD, 10258.32 N, -471.71 E)					



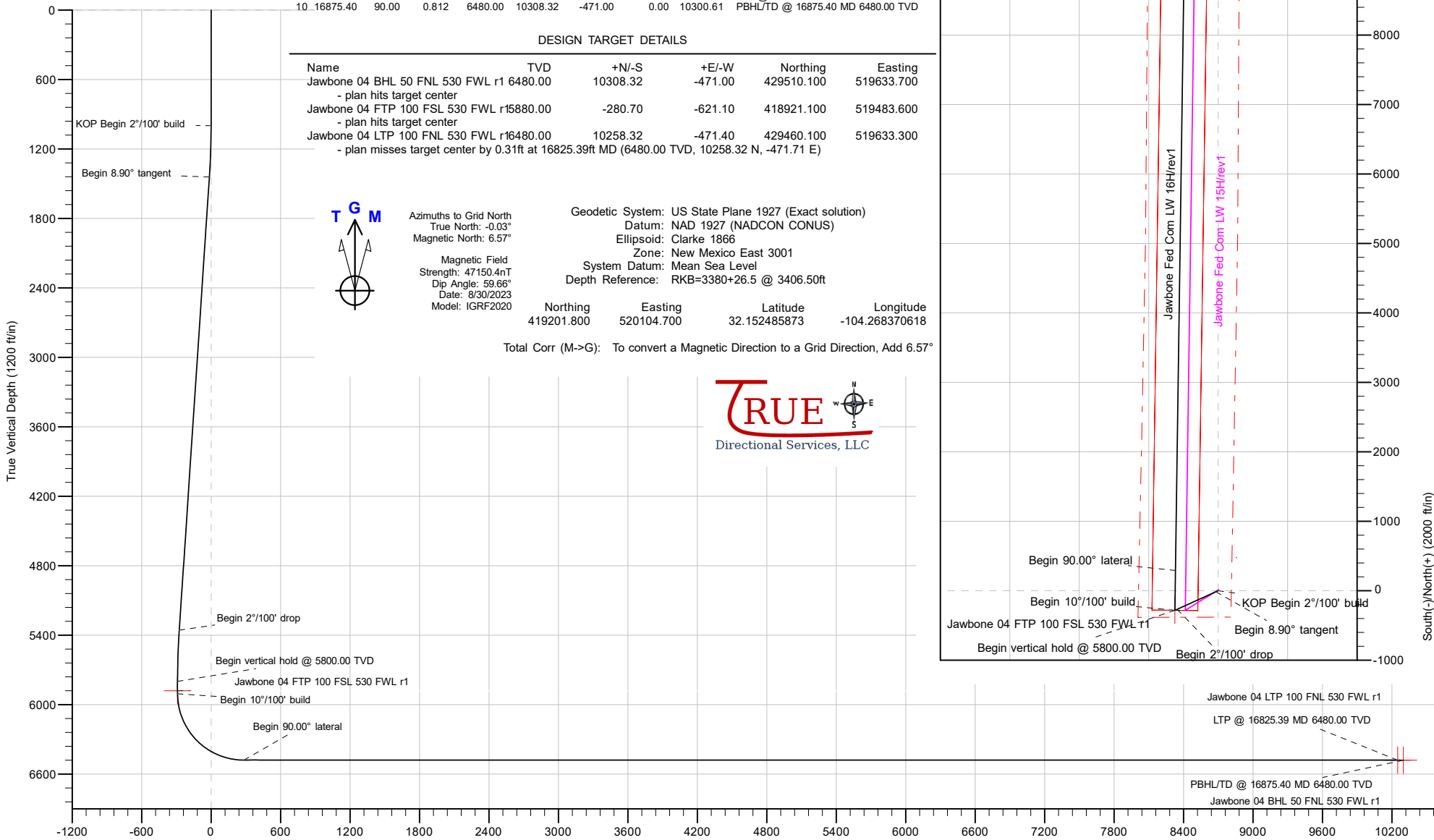
Azimuths to Grid North
True North: -0.03°
Magnetic North: 6.57°

Magnetic Field
Strength: 47150.4nT
Dip Angle: 59.66°
Date: 8/30/2023
Model: IGRF2020

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Depth Reference: RKB=3380+26.5 @ 3406.50ft

Northing 419201.800 Easting 520104.700 Latitude 32.152485873 Longitude -104.268370618

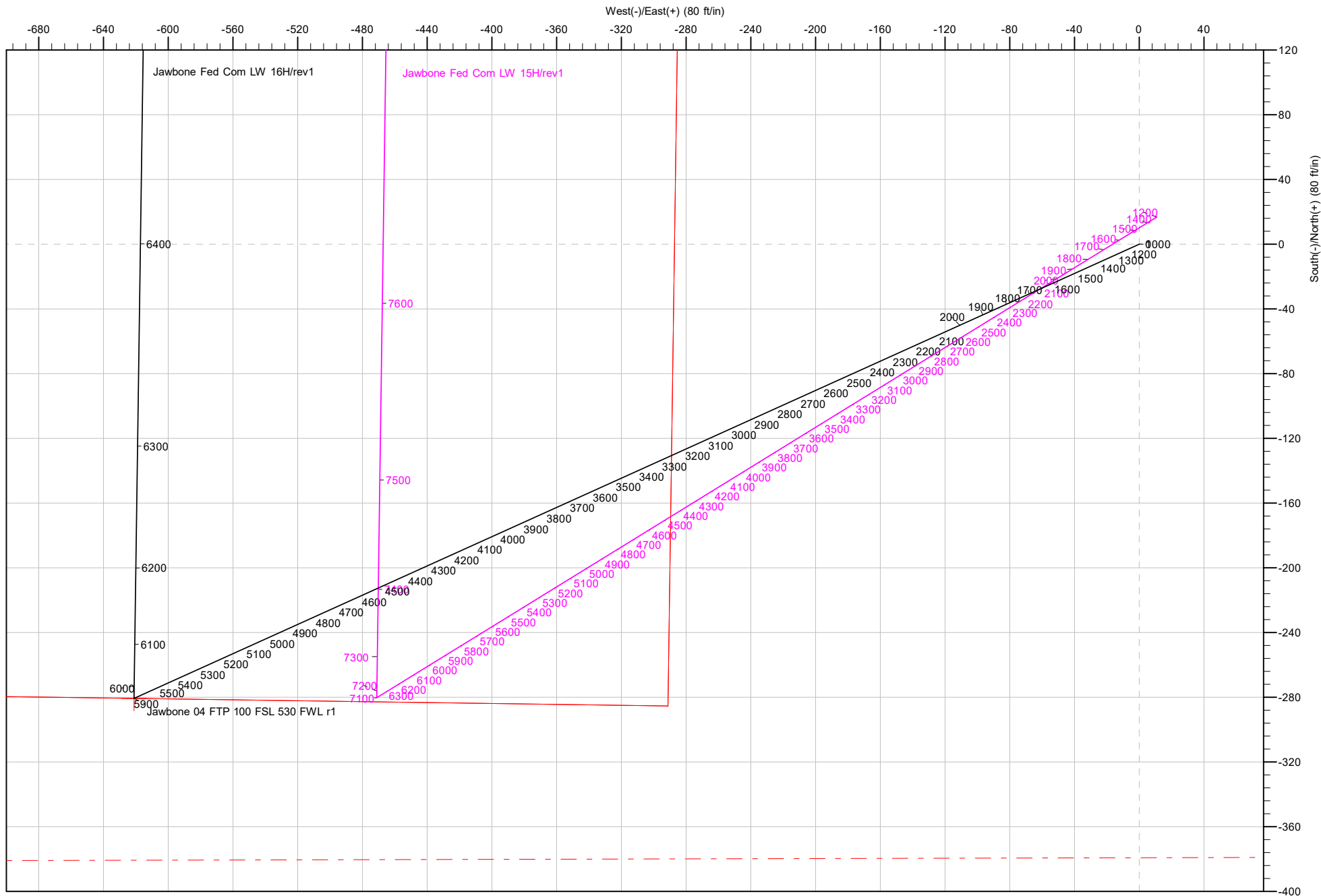
Total Corr (M->G): To convert a Magnetic Direction to a Grid Direction, Add 6.57°





FLAT CREEK
RESOURCES

Well: Jawbone Fed Com LW 16H
Site: Jawbone
Project: Eddy County, New Mexico NAD27 NME
Design: rev1



FLAT CREEK
RESOURCES

Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Project	Eddy County, New Mexico NAD27 NME		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Jawbone				
Site Position:		Northing:	419,218.600 usft	Latitude:	32.152532039
From:	Map	Easting:	520,115.600 usft	Longitude:	-104.268335365
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Jawbone Fed Com LW 16H, Surf loc: 379 FSL 1145 FWL Section 02-25S-R26E					
Well Position	+N/-S	0.00 ft	Northing:	419,201.800 usft	Latitude:	32.152485874
	+E/-W	0.00 ft	Easting:	520,104.700 usft	Longitude:	-104.268370618
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,380.00 ft
Grid Convergence:		0.03 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/30/2023	6.60	59.66	47,150.43325012

Design	rev1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	0.812	

Plan Survey Tool Program	Date	9/6/2023			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	16,875.40 rev1 (Original Hole)	MWD		
			OWSG MWD - Standard		



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,444.82	8.90	245.680	1,443.04	-14.19	-31.41	2.00	2.00	0.00	245.68	
5,406.41	8.90	245.680	5,356.96	-266.51	-589.69	0.00	0.00	0.00	0.00	
5,851.23	0.00	0.000	5,800.00	-280.70	-621.10	2.00	-2.00	0.00	180.00	
5,931.23	0.00	0.000	5,880.00	-280.70	-621.10	0.00	0.00	0.00	0.00	Jawbone 04 FTP 100
5,958.27	0.00	0.000	5,907.04	-280.70	-621.10	0.00	0.00	0.00	0.00	
6,858.27	90.00	0.812	6,480.00	292.20	-612.98	10.00	10.00	0.09	0.81	
16,825.39	90.00	0.812	6,480.00	10,258.32	-471.71	0.00	0.00	0.00	0.00	
16,875.40	90.00	0.812	6,480.00	10,308.32	-471.00	0.00	0.00	0.00	0.00	Jawbone 04 BHL 50 F

FLAT CREEK
RESOURCES

Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 2°/100' build									
1,100.00	2.00	245.680	1,099.98	-0.72	-1.59	-0.74	2.00	2.00	0.00
1,200.00	4.00	245.680	1,199.84	-2.87	-6.36	-2.96	2.00	2.00	0.00
1,300.00	6.00	245.680	1,299.45	-6.46	-14.30	-6.67	2.00	2.00	0.00
1,400.00	8.00	245.680	1,398.70	-11.48	-25.41	-11.84	2.00	2.00	0.00
1,444.82	8.90	245.680	1,443.04	-14.19	-31.41	-14.64	2.00	2.00	0.00
Begin 8.90° tangent									
1,500.00	8.90	245.680	1,497.55	-17.71	-39.18	-18.26	0.00	0.00	0.00
1,600.00	8.90	245.680	1,596.35	-24.08	-53.27	-24.83	0.00	0.00	0.00
1,700.00	8.90	245.680	1,695.14	-30.45	-67.37	-31.40	0.00	0.00	0.00
1,800.00	8.90	245.680	1,793.94	-36.82	-81.46	-37.97	0.00	0.00	0.00
1,900.00	8.90	245.680	1,892.74	-43.18	-95.55	-44.53	0.00	0.00	0.00
2,000.00	8.90	245.680	1,991.54	-49.55	-109.65	-51.10	0.00	0.00	0.00
2,100.00	8.90	245.680	2,090.33	-55.92	-123.74	-57.67	0.00	0.00	0.00
2,200.00	8.90	245.680	2,189.13	-62.29	-137.83	-64.24	0.00	0.00	0.00
2,300.00	8.90	245.680	2,287.93	-68.66	-151.92	-70.81	0.00	0.00	0.00
2,400.00	8.90	245.680	2,386.72	-75.03	-166.02	-77.37	0.00	0.00	0.00
2,500.00	8.90	245.680	2,485.52	-81.40	-180.11	-83.94	0.00	0.00	0.00
2,600.00	8.90	245.680	2,584.32	-87.77	-194.20	-90.51	0.00	0.00	0.00
2,700.00	8.90	245.680	2,683.11	-94.14	-208.29	-97.08	0.00	0.00	0.00
2,800.00	8.90	245.680	2,781.91	-100.50	-222.39	-103.65	0.00	0.00	0.00
2,900.00	8.90	245.680	2,880.71	-106.87	-236.48	-110.21	0.00	0.00	0.00
3,000.00	8.90	245.680	2,979.51	-113.24	-250.57	-116.78	0.00	0.00	0.00
3,100.00	8.90	245.680	3,078.30	-119.61	-264.66	-123.35	0.00	0.00	0.00
3,200.00	8.90	245.680	3,177.10	-125.98	-278.76	-129.92	0.00	0.00	0.00
3,300.00	8.90	245.680	3,275.90	-132.35	-292.85	-136.49	0.00	0.00	0.00
3,400.00	8.90	245.680	3,374.69	-138.72	-306.94	-143.05	0.00	0.00	0.00
3,500.00	8.90	245.680	3,473.49	-145.09	-321.03	-149.62	0.00	0.00	0.00
3,600.00	8.90	245.680	3,572.29	-151.46	-335.13	-156.19	0.00	0.00	0.00
3,700.00	8.90	245.680	3,671.08	-157.83	-349.22	-162.76	0.00	0.00	0.00
3,800.00	8.90	245.680	3,769.88	-164.19	-363.31	-169.33	0.00	0.00	0.00
3,900.00	8.90	245.680	3,868.68	-170.56	-377.40	-175.90	0.00	0.00	0.00
4,000.00	8.90	245.680	3,967.47	-176.93	-391.50	-182.46	0.00	0.00	0.00
4,100.00	8.90	245.680	4,066.27	-183.30	-405.59	-189.03	0.00	0.00	0.00
4,200.00	8.90	245.680	4,165.07	-189.67	-419.68	-195.60	0.00	0.00	0.00
4,300.00	8.90	245.680	4,263.87	-196.04	-433.77	-202.17	0.00	0.00	0.00
4,400.00	8.90	245.680	4,362.66	-202.41	-447.87	-208.74	0.00	0.00	0.00
4,500.00	8.90	245.680	4,461.46	-208.78	-461.96	-215.30	0.00	0.00	0.00
4,600.00	8.90	245.680	4,560.26	-215.15	-476.05	-221.87	0.00	0.00	0.00
4,700.00	8.90	245.680	4,659.05	-221.52	-490.14	-228.44	0.00	0.00	0.00
4,800.00	8.90	245.680	4,757.85	-227.88	-504.24	-235.01	0.00	0.00	0.00
4,900.00	8.90	245.680	4,856.65	-234.25	-518.33	-241.58	0.00	0.00	0.00
5,000.00	8.90	245.680	4,955.44	-240.62	-532.42	-248.14	0.00	0.00	0.00

FLAT CREEK
RESOURCES

Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00	8.90	245.680	5,054.24	-246.99	-546.51	-254.71	0.00	0.00	0.00
5,200.00	8.90	245.680	5,153.04	-253.36	-560.61	-261.28	0.00	0.00	0.00
5,300.00	8.90	245.680	5,251.83	-259.73	-574.70	-267.85	0.00	0.00	0.00
5,406.41	8.90	245.680	5,356.96	-266.51	-589.69	-274.84	0.00	0.00	0.00
Begin 2°/100' drop									
5,500.00	7.02	245.680	5,449.65	-271.84	-601.51	-280.34	2.00	-2.00	0.00
5,600.00	5.02	245.680	5,549.09	-276.17	-611.07	-284.80	2.00	-2.00	0.00
5,700.00	3.02	245.680	5,648.84	-279.06	-617.46	-287.78	2.00	-2.00	0.00
5,800.00	1.02	245.680	5,748.77	-280.51	-620.68	-289.28	2.00	-2.00	0.00
5,851.23	0.00	0.000	5,800.00	-280.70	-621.10	-289.47	2.00	-2.00	0.00
Begin vertical hold @ 5800.00 TVD									
5,900.00	0.00	0.000	5,848.77	-280.70	-621.10	-289.47	0.00	0.00	0.00
5,931.23	0.00	0.000	5,880.00	-280.70	-621.10	-289.47	0.00	0.00	0.00
5,958.27	0.00	0.000	5,907.04	-280.70	-621.10	-289.47	0.00	0.00	0.00
Begin 10°/100' build									
6,000.00	4.17	0.812	5,948.73	-279.18	-621.08	-287.96	10.00	10.00	0.00
6,050.00	9.17	0.812	5,998.38	-273.37	-621.00	-282.15	10.00	10.00	0.00
6,100.00	14.17	0.812	6,047.33	-263.26	-620.85	-272.03	10.00	10.00	0.00
6,150.00	19.17	0.812	6,095.21	-248.92	-620.65	-257.69	10.00	10.00	0.00
6,200.00	24.17	0.812	6,141.66	-230.47	-620.39	-239.23	10.00	10.00	0.00
6,250.00	29.17	0.812	6,186.33	-208.03	-620.07	-216.80	10.00	10.00	0.00
6,300.00	34.17	0.812	6,228.87	-181.79	-619.70	-190.55	10.00	10.00	0.00
6,350.00	39.17	0.812	6,268.96	-151.94	-619.28	-160.70	10.00	10.00	0.00
6,400.00	44.17	0.812	6,306.29	-118.71	-618.80	-127.46	10.00	10.00	0.00
6,450.00	49.17	0.812	6,340.59	-82.35	-618.29	-91.10	10.00	10.00	0.00
6,500.00	54.17	0.812	6,371.59	-43.14	-617.73	-51.89	10.00	10.00	0.00
6,550.00	59.17	0.812	6,399.05	-1.38	-617.14	-10.13	10.00	10.00	0.00
6,600.00	64.17	0.812	6,422.77	42.61	-616.52	33.87	10.00	10.00	0.00
6,650.00	69.17	0.812	6,442.56	88.51	-615.87	79.77	10.00	10.00	0.00
6,700.00	74.17	0.812	6,458.28	135.95	-615.20	127.22	10.00	10.00	0.00
6,750.00	79.17	0.812	6,469.80	184.58	-614.51	175.86	10.00	10.00	0.00
6,800.00	84.17	0.812	6,477.04	234.04	-613.80	225.31	10.00	10.00	0.00
6,850.00	89.17	0.812	6,479.94	283.93	-613.10	275.21	10.00	10.00	0.00
6,858.27	90.00	0.812	6,480.00	292.20	-612.98	283.48	10.00	10.00	0.00
Begin 90.00° lateral									
6,900.00	90.00	0.812	6,480.00	333.92	-612.39	325.21	0.00	0.00	0.00
7,000.00	90.00	0.812	6,480.00	433.91	-610.97	425.21	0.00	0.00	0.00
7,100.00	90.00	0.812	6,480.00	533.90	-609.55	525.21	0.00	0.00	0.00
7,200.00	90.00	0.812	6,480.00	633.89	-608.14	625.21	0.00	0.00	0.00
7,300.00	90.00	0.812	6,480.00	733.88	-606.72	725.21	0.00	0.00	0.00
7,400.00	90.00	0.812	6,480.00	833.87	-605.30	825.21	0.00	0.00	0.00
7,500.00	90.00	0.812	6,480.00	933.86	-603.88	925.21	0.00	0.00	0.00
7,600.00	90.00	0.812	6,480.00	1,033.85	-602.47	1,025.21	0.00	0.00	0.00
7,700.00	90.00	0.812	6,480.00	1,133.84	-601.05	1,125.21	0.00	0.00	0.00
7,800.00	90.00	0.812	6,480.00	1,233.83	-599.63	1,225.21	0.00	0.00	0.00
7,900.00	90.00	0.812	6,480.00	1,333.82	-598.22	1,325.21	0.00	0.00	0.00
8,000.00	90.00	0.812	6,480.00	1,433.81	-596.80	1,425.21	0.00	0.00	0.00
8,100.00	90.00	0.812	6,480.00	1,533.80	-595.38	1,525.21	0.00	0.00	0.00
8,200.00	90.00	0.812	6,480.00	1,633.79	-593.96	1,625.21	0.00	0.00	0.00
8,300.00	90.00	0.812	6,480.00	1,733.78	-592.55	1,725.21	0.00	0.00	0.00
8,400.00	90.00	0.812	6,480.00	1,833.77	-591.13	1,825.21	0.00	0.00	0.00
8,500.00	90.00	0.812	6,480.00	1,933.76	-589.71	1,925.21	0.00	0.00	0.00
8,600.00	90.00	0.812	6,480.00	2,033.75	-588.29	2,025.21	0.00	0.00	0.00

FLAT CREEK
RESOURCES

Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	90.00	0.812	6,480.00	2,133.74	-586.88	2,125.21	0.00	0.00	0.00
8,800.00	90.00	0.812	6,480.00	2,233.73	-585.46	2,225.21	0.00	0.00	0.00
8,900.00	90.00	0.812	6,480.00	2,333.72	-584.04	2,325.21	0.00	0.00	0.00
9,000.00	90.00	0.812	6,480.00	2,433.71	-582.62	2,425.21	0.00	0.00	0.00
9,100.00	90.00	0.812	6,480.00	2,533.70	-581.21	2,525.21	0.00	0.00	0.00
9,200.00	90.00	0.812	6,480.00	2,633.69	-579.79	2,625.21	0.00	0.00	0.00
9,300.00	90.00	0.812	6,480.00	2,733.68	-578.37	2,725.21	0.00	0.00	0.00
9,400.00	90.00	0.812	6,480.00	2,833.67	-576.95	2,825.21	0.00	0.00	0.00
9,500.00	90.00	0.812	6,480.00	2,933.66	-575.54	2,925.21	0.00	0.00	0.00
9,600.00	90.00	0.812	6,480.00	3,033.65	-574.12	3,025.21	0.00	0.00	0.00
9,700.00	90.00	0.812	6,480.00	3,133.64	-572.70	3,125.21	0.00	0.00	0.00
9,800.00	90.00	0.812	6,480.00	3,233.63	-571.29	3,225.21	0.00	0.00	0.00
9,900.00	90.00	0.812	6,480.00	3,333.62	-569.87	3,325.21	0.00	0.00	0.00
10,000.00	90.00	0.812	6,480.00	3,433.61	-568.45	3,425.21	0.00	0.00	0.00
10,100.00	90.00	0.812	6,480.00	3,533.60	-567.03	3,525.21	0.00	0.00	0.00
10,200.00	90.00	0.812	6,480.00	3,633.59	-565.62	3,625.21	0.00	0.00	0.00
10,300.00	90.00	0.812	6,480.00	3,733.58	-564.20	3,725.21	0.00	0.00	0.00
10,400.00	90.00	0.812	6,480.00	3,833.57	-562.78	3,825.21	0.00	0.00	0.00
10,500.00	90.00	0.812	6,480.00	3,933.56	-561.36	3,925.21	0.00	0.00	0.00
10,600.00	90.00	0.812	6,480.00	4,033.55	-559.95	4,025.21	0.00	0.00	0.00
10,700.00	90.00	0.812	6,480.00	4,133.54	-558.53	4,125.21	0.00	0.00	0.00
10,800.00	90.00	0.812	6,480.00	4,233.53	-557.11	4,225.21	0.00	0.00	0.00
10,900.00	90.00	0.812	6,480.00	4,333.52	-555.69	4,325.21	0.00	0.00	0.00
11,000.00	90.00	0.812	6,480.00	4,433.51	-554.28	4,425.21	0.00	0.00	0.00
11,100.00	90.00	0.812	6,480.00	4,533.50	-552.86	4,525.21	0.00	0.00	0.00
11,200.00	90.00	0.812	6,480.00	4,633.49	-551.44	4,625.21	0.00	0.00	0.00
11,300.00	90.00	0.812	6,480.00	4,733.48	-550.02	4,725.21	0.00	0.00	0.00
11,400.00	90.00	0.812	6,480.00	4,833.47	-548.61	4,825.21	0.00	0.00	0.00
11,500.00	90.00	0.812	6,480.00	4,933.46	-547.19	4,925.21	0.00	0.00	0.00
11,600.00	90.00	0.812	6,480.00	5,033.45	-545.77	5,025.21	0.00	0.00	0.00
11,700.00	90.00	0.812	6,480.00	5,133.44	-544.36	5,125.21	0.00	0.00	0.00
11,800.00	90.00	0.812	6,480.00	5,233.43	-542.94	5,225.21	0.00	0.00	0.00
11,900.00	90.00	0.812	6,480.00	5,333.42	-541.52	5,325.21	0.00	0.00	0.00
12,000.00	90.00	0.812	6,480.00	5,433.41	-540.10	5,425.21	0.00	0.00	0.00
12,100.00	90.00	0.812	6,480.00	5,533.40	-538.69	5,525.21	0.00	0.00	0.00
12,200.00	90.00	0.812	6,480.00	5,633.39	-537.27	5,625.21	0.00	0.00	0.00
12,300.00	90.00	0.812	6,480.00	5,733.38	-535.85	5,725.21	0.00	0.00	0.00
12,400.00	90.00	0.812	6,480.00	5,833.37	-534.43	5,825.21	0.00	0.00	0.00
12,500.00	90.00	0.812	6,480.00	5,933.36	-533.02	5,925.21	0.00	0.00	0.00
12,600.00	90.00	0.812	6,480.00	6,033.35	-531.60	6,025.21	0.00	0.00	0.00
12,700.00	90.00	0.812	6,480.00	6,133.34	-530.18	6,125.21	0.00	0.00	0.00
12,800.00	90.00	0.812	6,480.00	6,233.33	-528.76	6,225.21	0.00	0.00	0.00
12,900.00	90.00	0.812	6,480.00	6,333.32	-527.35	6,325.21	0.00	0.00	0.00
13,000.00	90.00	0.812	6,480.00	6,433.31	-525.93	6,425.21	0.00	0.00	0.00
13,100.00	90.00	0.812	6,480.00	6,533.30	-524.51	6,525.21	0.00	0.00	0.00
13,200.00	90.00	0.812	6,480.00	6,633.29	-523.10	6,625.21	0.00	0.00	0.00
13,300.00	90.00	0.812	6,480.00	6,733.28	-521.68	6,725.21	0.00	0.00	0.00
13,400.00	90.00	0.812	6,480.00	6,833.27	-520.26	6,825.21	0.00	0.00	0.00
13,500.00	90.00	0.812	6,480.00	6,933.26	-518.84	6,925.21	0.00	0.00	0.00
13,600.00	90.00	0.812	6,480.00	7,033.25	-517.43	7,025.21	0.00	0.00	0.00
13,700.00	90.00	0.812	6,480.00	7,133.24	-516.01	7,125.21	0.00	0.00	0.00
13,800.00	90.00	0.812	6,480.00	7,233.23	-514.59	7,225.21	0.00	0.00	0.00
13,900.00	90.00	0.812	6,480.00	7,333.22	-513.17	7,325.21	0.00	0.00	0.00
14,000.00	90.00	0.812	6,480.00	7,433.21	-511.76	7,425.21	0.00	0.00	0.00

FLAT CREEK
RESOURCES

Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,100.00	90.00	0.812	6,480.00	7,533.20	-510.34	7,525.21	0.00	0.00	0.00
14,200.00	90.00	0.812	6,480.00	7,633.19	-508.92	7,625.21	0.00	0.00	0.00
14,300.00	90.00	0.812	6,480.00	7,733.18	-507.50	7,725.21	0.00	0.00	0.00
14,400.00	90.00	0.812	6,480.00	7,833.17	-506.09	7,825.21	0.00	0.00	0.00
14,500.00	90.00	0.812	6,480.00	7,933.16	-504.67	7,925.21	0.00	0.00	0.00
14,600.00	90.00	0.812	6,480.00	8,033.15	-503.25	8,025.21	0.00	0.00	0.00
14,700.00	90.00	0.812	6,480.00	8,133.14	-501.83	8,125.21	0.00	0.00	0.00
14,800.00	90.00	0.812	6,480.00	8,233.13	-500.42	8,225.21	0.00	0.00	0.00
14,900.00	90.00	0.812	6,480.00	8,333.12	-499.00	8,325.21	0.00	0.00	0.00
15,000.00	90.00	0.812	6,480.00	8,433.11	-497.58	8,425.21	0.00	0.00	0.00
15,100.00	90.00	0.812	6,480.00	8,533.10	-496.17	8,525.21	0.00	0.00	0.00
15,200.00	90.00	0.812	6,480.00	8,633.09	-494.75	8,625.21	0.00	0.00	0.00
15,300.00	90.00	0.812	6,480.00	8,733.08	-493.33	8,725.21	0.00	0.00	0.00
15,400.00	90.00	0.812	6,480.00	8,833.07	-491.91	8,825.21	0.00	0.00	0.00
15,500.00	90.00	0.812	6,480.00	8,933.06	-490.50	8,925.21	0.00	0.00	0.00
15,600.00	90.00	0.812	6,480.00	9,033.05	-489.08	9,025.21	0.00	0.00	0.00
15,700.00	90.00	0.812	6,480.00	9,133.04	-487.66	9,125.21	0.00	0.00	0.00
15,800.00	90.00	0.812	6,480.00	9,233.03	-486.24	9,225.21	0.00	0.00	0.00
15,900.00	90.00	0.812	6,480.00	9,333.02	-484.83	9,325.21	0.00	0.00	0.00
16,000.00	90.00	0.812	6,480.00	9,433.01	-483.41	9,425.21	0.00	0.00	0.00
16,100.00	90.00	0.812	6,480.00	9,533.00	-481.99	9,525.21	0.00	0.00	0.00
16,200.00	90.00	0.812	6,480.00	9,632.99	-480.57	9,625.21	0.00	0.00	0.00
16,300.00	90.00	0.812	6,480.00	9,732.98	-479.16	9,725.21	0.00	0.00	0.00
16,400.00	90.00	0.812	6,480.00	9,832.97	-477.74	9,825.21	0.00	0.00	0.00
16,500.00	90.00	0.812	6,480.00	9,932.96	-476.32	9,925.21	0.00	0.00	0.00
16,600.00	90.00	0.812	6,480.00	10,032.95	-474.90	10,025.21	0.00	0.00	0.00
16,700.00	90.00	0.812	6,480.00	10,132.94	-473.49	10,125.21	0.00	0.00	0.00
16,800.00	90.00	0.812	6,480.00	10,232.93	-472.07	10,225.21	0.00	0.00	0.00
16,825.39	90.00	0.812	6,480.00	10,258.32	-471.71	10,250.61	0.00	0.00	0.00
LTP @ 16825.39 MD 6480.00 TVD									
16,875.40	90.00	0.812	6,480.00	10,308.32	-471.00	10,300.61	0.00	0.00	0.00
PBHL/TD @ 16875.40 MD 6480.00 TVD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Jawbone 04 FTP 100 F5 - plan hits target center - Rectangle (sides W660.00 H10,540.08 D0.00)	0.00	0.812	5,880.00	-280.70	-621.10	418,921.100	519,483.600	32.151715237	-104.270378058
Jawbone 04 LTP 100 FN - plan misses target center by 0.31ft at 16825.39ft MD (6480.00 TVD, 10258.32 N, -471.71 E) - Point	0.00	0.000	6,480.00	10,258.32	-471.40	429,460.100	519,633.300	32.180686907	-104.269874269
Jawbone 04 BHL 50 FNI - plan hits target center - Point	0.00	0.000	6,480.00	10,308.32	-471.00	429,510.100	519,633.700	32.180824357	-104.269872881



Planning Report

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.00	1,000.00	0.00	0.00	KOP Begin 2°/100' build	
1,444.82	1,443.04	-14.19	-31.41	Begin 8.90° tangent	
5,406.41	5,356.96	-266.51	-589.69	Begin 2°/100' drop	
5,851.23	5,800.00	-280.70	-621.10	Begin vertical hold @ 5800.00 TVD	
5,931.23	5,880.00	-280.70	-621.10		
5,958.27	5,907.04	-280.70	-621.10	Begin 10°/100' build	
6,858.27	6,480.00	292.20	-612.98	Begin 90.00° lateral	
16,825.39	6,480.00	10,258.32	-471.71	LTP @ 16825.39 MD 6480.00 TVD	
16,875.40	6,480.00	10,308.32	-471.00	PBHL/TD @ 16875.40 MD 6480.00 TVD	

FLAT CREEK
RESOURCES

Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Project	Eddy County, New Mexico NAD27 NME		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Jawbone			
Site Position:		Northing:	419,218.600 usft	Latitude:	32.152532039
From:	Map	Easting:	520,115.600 usft	Longitude:	-104.268335365
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Jawbone Fed Com LW 16H, Surf loc: 379 FSL 1145 FWL Section 02-25S-R26E					
Well Position	+N/-S	0.00 ft	Northing:	419,201.800 usft	Latitude:	32.152485874
	+E/-W	0.00 ft	Easting:	520,104.700 usft	Longitude:	-104.268370618
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,380.00 ft
Grid Convergence:						

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/30/2023	6.60	59.66	47,150.43325012

Design	rev1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	0.812

Plan Survey Tool Program		Date			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	16,875.40 rev1 (Original Hole)			



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,444.82	8.90	245.680	1,443.04	-14.19	-31.41	2.00	2.00	0.00	245.68	
5,406.41	8.90	245.680	5,356.96	-266.51	-589.69	0.00	0.00	0.00	0.00	
5,851.23	0.00	0.000	5,800.00	-280.70	-621.10	2.00	-2.00	0.00	180.00	
5,931.23	0.00	0.000	5,880.00	-280.70	-621.10	0.00	0.00	0.00	0.00	Jawbone 04 FTP 100
5,958.27	0.00	0.000	5,907.04	-280.70	-621.10	0.00	0.00	0.00	0.00	
6,858.27	90.00	0.812	6,480.00	292.20	-612.98	10.00	10.00	0.09	0.81	
16,825.39	90.00	0.812	6,480.00	10,258.32	-471.71	0.00	0.00	0.00	0.00	
16,875.40	90.00	0.812	6,480.00	10,308.32	-471.00	0.00	0.00	0.00	0.00	Jawbone 04 BHL 50 F

FLAT CREEK
RESOURCES

Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
100.00	0.00	0.000	100.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
200.00	0.00	0.000	200.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
300.00	0.00	0.000	300.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
400.00	0.00	0.000	400.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
500.00	0.00	0.000	500.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
600.00	0.00	0.000	600.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
700.00	0.00	0.000	700.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
800.00	0.00	0.000	800.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
900.00	0.00	0.000	900.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
1,000.00	0.00	0.000	1,000.00	0.00	0.00	419,201.800	520,104.700	32.152485874	-104.268370618
KOP Begin 2°/100' build									
1,100.00	2.00	245.680	1,099.98	-0.72	-1.59	419,201.081	520,103.110	32.152483901	-104.268375758
1,200.00	4.00	245.680	1,199.84	-2.87	-6.36	419,198.926	520,098.341	32.152477984	-104.268391171
1,300.00	6.00	245.680	1,299.45	-6.46	-14.30	419,195.337	520,090.399	32.152468130	-104.268416840
1,400.00	8.00	245.680	1,398.70	-11.48	-25.41	419,190.318	520,079.295	32.152454352	-104.268452732
1,444.82	8.90	245.680	1,443.04	-14.19	-31.41	419,187.606	520,073.294	32.152446906	-104.268472127
Begin 8.90° tangent									
1,500.00	8.90	245.680	1,497.55	-17.71	-39.18	419,184.092	520,065.518	32.152437259	-104.268497259
1,600.00	8.90	245.680	1,596.35	-24.08	-53.27	419,177.723	520,051.425	32.152419773	-104.268542807
1,700.00	8.90	245.680	1,695.14	-30.45	-67.37	419,171.354	520,037.333	32.152402288	-104.268588356
1,800.00	8.90	245.680	1,793.94	-36.82	-81.46	419,164.985	520,023.240	32.152384803	-104.268633904
1,900.00	8.90	245.680	1,892.74	-43.18	-95.55	419,158.616	520,009.148	32.152367318	-104.268679452
2,000.00	8.90	245.680	1,991.54	-49.55	-109.65	419,152.247	519,995.055	32.152349833	-104.268725001
2,100.00	8.90	245.680	2,090.33	-55.92	-123.74	419,145.878	519,980.963	32.152332347	-104.268770549
2,200.00	8.90	245.680	2,189.13	-62.29	-137.83	419,139.509	519,966.870	32.152314862	-104.268816097
2,300.00	8.90	245.680	2,287.93	-68.66	-151.92	419,133.140	519,952.778	32.152297377	-104.268861645
2,400.00	8.90	245.680	2,386.72	-75.03	-166.02	419,126.771	519,938.685	32.152279892	-104.268907194
2,500.00	8.90	245.680	2,485.52	-81.40	-180.11	419,120.402	519,924.593	32.152262406	-104.268952742
2,600.00	8.90	245.680	2,584.32	-87.77	-194.20	419,114.033	519,910.500	32.152244921	-104.268998290
2,700.00	8.90	245.680	2,683.11	-94.14	-208.29	419,107.664	519,896.408	32.152227436	-104.269043838
2,800.00	8.90	245.680	2,781.91	-100.50	-222.39	419,101.295	519,882.315	32.152209950	-104.269089386
2,900.00	8.90	245.680	2,880.71	-106.87	-236.48	419,094.926	519,868.223	32.152192465	-104.269134934
3,000.00	8.90	245.680	2,979.51	-113.24	-250.57	419,088.557	519,854.130	32.152174980	-104.269180483
3,100.00	8.90	245.680	3,078.30	-119.61	-264.66	419,082.188	519,840.038	32.152157494	-104.269226031
3,200.00	8.90	245.680	3,177.10	-125.98	-278.76	419,075.819	519,825.945	32.152140009	-104.269271579
3,300.00	8.90	245.680	3,275.90	-132.35	-292.85	419,069.450	519,811.853	32.152122523	-104.269317127
3,400.00	8.90	245.680	3,374.69	-138.72	-306.94	419,063.082	519,797.760	32.152105038	-104.269362675
3,500.00	8.90	245.680	3,473.49	-145.09	-321.03	419,056.713	519,783.668	32.152087553	-104.269408223
3,600.00	8.90	245.680	3,572.29	-151.46	-335.13	419,050.344	519,769.575	32.152070067	-104.269453771
3,700.00	8.90	245.680	3,671.08	-157.83	-349.22	419,043.975	519,755.483	32.152052582	-104.269499319
3,800.00	8.90	245.680	3,769.88	-164.19	-363.31	419,037.606	519,741.390	32.152035096	-104.269544867
3,900.00	8.90	245.680	3,868.68	-170.56	-377.40	419,031.237	519,727.298	32.152017611	-104.269590415
4,000.00	8.90	245.680	3,967.47	-176.93	-391.50	419,024.868	519,713.205	32.152000125	-104.269635963
4,100.00	8.90	245.680	4,066.27	-183.30	-405.59	419,018.499	519,699.113	32.151982639	-104.269681511
4,200.00	8.90	245.680	4,165.07	-189.67	-419.68	419,012.130	519,685.020	32.151965154	-104.269727059
4,300.00	8.90	245.680	4,263.87	-196.04	-433.77	419,005.761	519,670.928	32.151947668	-104.269772607
4,400.00	8.90	245.680	4,362.66	-202.41	-447.87	418,999.392	519,656.835	32.151930183	-104.269818154
4,500.00	8.90	245.680	4,461.46	-208.78	-461.96	418,993.023	519,642.742	32.151912697	-104.269863702
4,600.00	8.90	245.680	4,560.26	-215.15	-476.05	418,986.654	519,628.650	32.151895211	-104.269909250
4,700.00	8.90	245.680	4,659.05	-221.52	-490.14	418,980.285	519,614.557	32.151877726	-104.269954798
4,800.00	8.90	245.680	4,757.85	-227.88	-504.24	418,973.916	519,600.465	32.151860240	-104.270000346
4,900.00	8.90	245.680	4,856.65	-234.25	-518.33	418,967.547	519,586.372	32.151842754	-104.270045893
5,000.00	8.90	245.680	4,955.44	-240.62	-532.42	418,961.178	519,572.280	32.151825269	-104.270091441

FLAT CREEK
RESOURCES

Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.00	8.90	245.680	5,054.24	-246.99	-546.51	418,954.809	519,558.187	32.151807783	-104.270136989
5,200.00	8.90	245.680	5,153.04	-253.36	-560.61	418,948.440	519,544.095	32.151790297	-104.270182537
5,300.00	8.90	245.680	5,251.83	-259.73	-574.70	418,942.071	519,530.002	32.151772811	-104.270228084
5,406.41	8.90	245.680	5,356.96	-266.51	-589.69	418,935.294	519,515.007	32.151754205	-104.270276551
Begin 2°/100' drop									
5,500.00	7.02	245.680	5,449.65	-271.84	-601.51	418,929.956	519,503.196	32.151739550	-104.270314724
5,600.00	5.02	245.680	5,549.09	-276.17	-611.07	418,925.634	519,493.632	32.151727684	-104.270345634
5,700.00	3.02	245.680	5,648.84	-279.06	-617.46	418,922.744	519,487.237	32.151719749	-104.270366304
5,800.00	1.02	245.680	5,748.77	-280.51	-620.68	418,921.289	519,484.018	32.151715754	-104.270376709
5,851.23	0.00	0.000	5,800.00	-280.70	-621.10	418,921.100	519,483.600	32.151715237	-104.270378058
Begin vertical hold @ 5800.00 TVD									
5,900.00	0.00	0.000	5,848.77	-280.70	-621.10	418,921.100	519,483.600	32.151715237	-104.270378058
5,931.23	0.00	0.000	5,880.00	-280.70	-621.10	418,921.100	519,483.600	32.151715237	-104.270378058
5,958.27	0.00	0.000	5,907.04	-280.70	-621.10	418,921.100	519,483.600	32.151715237	-104.270378058
Begin 10°/100' build									
6,000.00	4.17	0.812	5,948.73	-279.18	-621.08	418,922.619	519,483.622	32.151719412	-104.270377986
6,050.00	9.17	0.812	5,998.38	-273.37	-621.00	418,928.427	519,483.704	32.151735377	-104.270377709
6,100.00	14.17	0.812	6,047.33	-263.26	-620.85	418,938.539	519,483.848	32.151763175	-104.270377226
6,150.00	19.17	0.812	6,095.21	-248.92	-620.65	418,952.878	519,484.051	32.151802594	-104.270376543
6,200.00	24.17	0.812	6,141.66	-230.47	-620.39	418,971.336	519,484.312	32.151853334	-104.270375662
6,250.00	29.17	0.812	6,186.33	-208.03	-620.07	418,993.771	519,484.630	32.151915009	-104.270374592
6,300.00	34.17	0.812	6,228.87	-181.79	-619.70	419,020.013	519,485.002	32.151987150	-104.270373341
6,350.00	39.17	0.812	6,268.96	-151.94	-619.28	419,049.863	519,485.426	32.152069207	-104.270371917
6,400.00	44.17	0.812	6,306.29	-118.71	-618.80	419,083.093	519,485.897	32.152160556	-104.270370332
6,450.00	49.17	0.812	6,340.59	-82.35	-618.29	419,119.450	519,486.412	32.152260502	-104.270368598
6,500.00	54.17	0.812	6,371.59	-43.14	-617.73	419,158.658	519,486.968	32.152368284	-104.270366728
6,550.00	59.17	0.812	6,399.05	-1.38	-617.14	419,200.418	519,487.560	32.152483082	-104.270364737
6,600.00	64.17	0.812	6,422.77	42.61	-616.52	419,244.412	519,488.183	32.152604022	-104.270362639
6,650.00	69.17	0.812	6,442.56	88.51	-615.87	419,290.306	519,488.834	32.152730184	-104.270360450
6,700.00	74.17	0.812	6,458.28	135.95	-615.20	419,337.750	519,489.506	32.152860607	-104.270358187
6,750.00	79.17	0.812	6,469.80	184.58	-614.51	419,386.383	519,490.196	32.152994300	-104.270355868
6,800.00	84.17	0.812	6,477.04	234.04	-613.80	419,435.835	519,490.897	32.153130244	-104.270353509
6,850.00	89.17	0.812	6,479.94	283.93	-613.10	419,485.730	519,491.604	32.153267405	-104.270351129
6,858.27	90.00	0.812	6,480.00	292.20	-612.98	419,493.999	519,491.721	32.153290137	-104.270350735
Begin 90.00° lateral									
6,900.00	90.00	0.812	6,480.00	333.92	-612.39	419,535.724	519,492.313	32.153404840	-104.270348745
7,000.00	90.00	0.812	6,480.00	433.91	-610.97	419,635.714	519,493.730	32.153679712	-104.270343976
7,100.00	90.00	0.812	6,480.00	533.90	-609.55	419,735.704	519,495.147	32.153954584	-104.270339207
7,200.00	90.00	0.812	6,480.00	633.89	-608.14	419,835.694	519,496.565	32.154229456	-104.270334438
7,300.00	90.00	0.812	6,480.00	733.88	-606.72	419,935.683	519,497.982	32.154504328	-104.270329669
7,400.00	90.00	0.812	6,480.00	833.87	-605.30	420,035.673	519,499.399	32.154779200	-104.270324900
7,500.00	90.00	0.812	6,480.00	933.86	-603.88	420,135.663	519,500.817	32.155054072	-104.270320131
7,600.00	90.00	0.812	6,480.00	1,033.85	-602.47	420,235.653	519,502.234	32.155328944	-104.270315362
7,700.00	90.00	0.812	6,480.00	1,133.84	-601.05	420,335.642	519,503.652	32.155603816	-104.270310593
7,800.00	90.00	0.812	6,480.00	1,233.83	-599.63	420,435.632	519,505.069	32.155878688	-104.270305824
7,900.00	90.00	0.812	6,480.00	1,333.82	-598.22	420,535.622	519,506.486	32.156153560	-104.270301055
8,000.00	90.00	0.812	6,480.00	1,433.81	-596.80	420,635.612	519,507.904	32.156428432	-104.270296286
8,100.00	90.00	0.812	6,480.00	1,533.80	-595.38	420,735.601	519,509.321	32.156703304	-104.270291516
8,200.00	90.00	0.812	6,480.00	1,633.79	-593.96	420,835.591	519,510.738	32.156978175	-104.270286747
8,300.00	90.00	0.812	6,480.00	1,733.78	-592.55	420,935.581	519,512.156	32.157253047	-104.270281978
8,400.00	90.00	0.812	6,480.00	1,833.77	-591.13	421,035.571	519,513.573	32.157527919	-104.270277209
8,500.00	90.00	0.812	6,480.00	1,933.76	-589.71	421,135.560	519,514.990	32.157802791	-104.270272439
8,600.00	90.00	0.812	6,480.00	2,033.75	-588.29	421,235.550	519,516.408	32.158077663	-104.270267670
8,700.00	90.00	0.812	6,480.00	2,133.74	-586.88	421,335.540	519,517.825	32.158352534	-104.270262901

FLAT CREEK
RESOURCES

Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude		Longitude
8,800.00	90.00	0.812	6,480.00	2,233.73	-585.46	421,435.530	519,519.243	32.158627406		-104.270258131
8,900.00	90.00	0.812	6,480.00	2,333.72	-584.04	421,535.519	519,520.660	32.158902277		-104.270253362
9,000.00	90.00	0.812	6,480.00	2,433.71	-582.62	421,635.509	519,522.077	32.159177149		-104.270248592
9,100.00	90.00	0.812	6,480.00	2,533.70	-581.21	421,735.499	519,523.495	32.159452021		-104.270243823
9,200.00	90.00	0.812	6,480.00	2,633.69	-579.79	421,835.489	519,524.912	32.159726893		-104.270239053
9,300.00	90.00	0.812	6,480.00	2,733.68	-578.37	421,935.478	519,526.329	32.160001764		-104.270234284
9,400.00	90.00	0.812	6,480.00	2,833.67	-576.95	422,035.468	519,527.747	32.160276636		-104.270229514
9,500.00	90.00	0.812	6,480.00	2,933.66	-575.54	422,135.458	519,529.164	32.160551508		-104.270224744
9,600.00	90.00	0.812	6,480.00	3,033.65	-574.12	422,235.448	519,530.581	32.160826380		-104.270219975
9,700.00	90.00	0.812	6,480.00	3,133.64	-572.70	422,335.437	519,531.999	32.161101251		-104.270215205
9,800.00	90.00	0.812	6,480.00	3,233.63	-571.29	422,435.427	519,533.416	32.161376123		-104.270210435
9,900.00	90.00	0.812	6,480.00	3,333.62	-569.87	422,535.417	519,534.833	32.161650995		-104.270205665
10,000.00	90.00	0.812	6,480.00	3,433.61	-568.45	422,635.407	519,536.251	32.161925866		-104.270200896
10,100.00	90.00	0.812	6,480.00	3,533.60	-567.03	422,735.396	519,537.668	32.162200738		-104.270196126
10,200.00	90.00	0.812	6,480.00	3,633.59	-565.62	422,835.386	519,539.086	32.162475610		-104.270191356
10,300.00	90.00	0.812	6,480.00	3,733.58	-564.20	422,935.376	519,540.503	32.162750481		-104.270186586
10,400.00	90.00	0.812	6,480.00	3,833.57	-562.78	423,035.366	519,541.920	32.163025353		-104.270181816
10,500.00	90.00	0.812	6,480.00	3,933.56	-561.36	423,135.355	519,543.338	32.163300225		-104.270177046
10,600.00	90.00	0.812	6,480.00	4,033.55	-559.95	423,235.345	519,544.755	32.163575096		-104.270172276
10,700.00	90.00	0.812	6,480.00	4,133.54	-558.53	423,335.335	519,546.172	32.163849968		-104.270167506
10,800.00	90.00	0.812	6,480.00	4,233.53	-557.11	423,435.325	519,547.590	32.164124839		-104.270162736
10,900.00	90.00	0.812	6,480.00	4,333.52	-555.69	423,535.314	519,549.007	32.164399711		-104.270157966
11,000.00	90.00	0.812	6,480.00	4,433.51	-554.28	423,635.304	519,550.424	32.164674582		-104.270153196
11,100.00	90.00	0.812	6,480.00	4,533.50	-552.86	423,735.294	519,551.842	32.164949454		-104.270148426
11,200.00	90.00	0.812	6,480.00	4,633.49	-551.44	423,835.284	519,553.259	32.165224325		-104.270143656
11,300.00	90.00	0.812	6,480.00	4,733.48	-550.02	423,935.273	519,554.677	32.165499197		-104.270138886
11,400.00	90.00	0.812	6,480.00	4,833.47	-548.61	424,035.263	519,556.094	32.165774068		-104.270134116
11,500.00	90.00	0.812	6,480.00	4,933.46	-547.19	424,135.253	519,557.511	32.166048940		-104.270129345
11,600.00	90.00	0.812	6,480.00	5,033.45	-545.77	424,235.243	519,558.929	32.166323811		-104.270124575
11,700.00	90.00	0.812	6,480.00	5,133.44	-544.36	424,335.232	519,560.346	32.166598683		-104.270119805
11,800.00	90.00	0.812	6,480.00	5,233.43	-542.94	424,435.222	519,561.763	32.166873554		-104.270115034
11,900.00	90.00	0.812	6,480.00	5,333.42	-541.52	424,535.212	519,563.181	32.167148426		-104.270110264
12,000.00	90.00	0.812	6,480.00	5,433.41	-540.10	424,635.202	519,564.598	32.167423297		-104.270105494
12,100.00	90.00	0.812	6,480.00	5,533.40	-538.69	424,735.191	519,566.015	32.167698169		-104.270100723
12,200.00	90.00	0.812	6,480.00	5,633.39	-537.27	424,835.181	519,567.433	32.167973040		-104.270095953
12,300.00	90.00	0.812	6,480.00	5,733.38	-535.85	424,935.171	519,568.850	32.168247911		-104.270091182
12,400.00	90.00	0.812	6,480.00	5,833.37	-534.43	425,035.161	519,570.267	32.168522783		-104.270086412
12,500.00	90.00	0.812	6,480.00	5,933.36	-533.02	425,135.150	519,571.685	32.168797654		-104.270081641
12,600.00	90.00	0.812	6,480.00	6,033.35	-531.60	425,235.140	519,573.102	32.169072525		-104.270076871
12,700.00	90.00	0.812	6,480.00	6,133.34	-530.18	425,335.130	519,574.520	32.169347397		-104.270072100
12,800.00	90.00	0.812	6,480.00	6,233.33	-528.76	425,435.120	519,575.937	32.169622268		-104.270067330
12,900.00	90.00	0.812	6,480.00	6,333.32	-527.35	425,535.109	519,577.354	32.169897139		-104.270062559
13,000.00	90.00	0.812	6,480.00	6,433.31	-525.93	425,635.099	519,578.772	32.170172011		-104.270057788
13,100.00	90.00	0.812	6,480.00	6,533.30	-524.51	425,735.089	519,580.189	32.170446882		-104.270053017
13,200.00	90.00	0.812	6,480.00	6,633.29	-523.10	425,835.079	519,581.606	32.170721753		-104.270048247
13,300.00	90.00	0.812	6,480.00	6,733.28	-521.68	425,935.068	519,583.024	32.170996624		-104.270043476
13,400.00	90.00	0.812	6,480.00	6,833.27	-520.26	426,035.058	519,584.441	32.171271496		-104.270038705
13,500.00	90.00	0.812	6,480.00	6,933.26	-518.84	426,135.048	519,585.858	32.171546367		-104.270033934
13,600.00	90.00	0.812	6,480.00	7,033.25	-517.43	426,235.038	519,587.276	32.171821238		-104.270029163
13,700.00	90.00	0.812	6,480.00	7,133.24	-516.01	426,335.027	519,588.693	32.172096109		-104.270024393
13,800.00	90.00	0.812	6,480.00	7,233.23	-514.59	426,435.017	519,590.111	32.172370981		-104.270019622
13,900.00	90.00	0.812	6,480.00	7,333.22	-513.17	426,535.007	519,591.528	32.172645852		-104.270014851
14,000.00	90.00	0.812	6,480.00	7,433.21	-511.76	426,634.997	519,592.945	32.172920723		-104.270010080
14,100.00	90.00	0.812	6,480.00	7,533.20	-510.34	426,734.986	519,594.363	32.173195594		-104.270005309
14,200.00	90.00	0.812	6,480.00	7,633.19	-508.92	426,834.976	519,595.780	32.173470465		-104.270000538

FLAT CREEK
RESOURCES

Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Well Jawbone Fed Com LW 16H
Company:	Flat Creek Resources, LLC	TVD Reference:	RKB=3380+26.5 @ 3406.50ft
Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
14,300.00	90.00	0.812	6,480.00	7,733.18	-507.50	426,934.966	519,597.197	32.173745336	-104.269995767	
14,400.00	90.00	0.812	6,480.00	7,833.17	-506.09	427,034.956	519,598.615	32.174020208	-104.269990995	
14,500.00	90.00	0.812	6,480.00	7,933.16	-504.67	427,134.945	519,600.032	32.174295079	-104.269986224	
14,600.00	90.00	0.812	6,480.00	8,033.15	-503.25	427,234.935	519,601.449	32.174569950	-104.269981453	
14,700.00	90.00	0.812	6,480.00	8,133.14	-501.83	427,334.925	519,602.867	32.174844821	-104.269976682	
14,800.00	90.00	0.812	6,480.00	8,233.13	-500.42	427,434.915	519,604.284	32.175119692	-104.269971911	
14,900.00	90.00	0.812	6,480.00	8,333.12	-499.00	427,534.904	519,605.702	32.175394563	-104.269967139	
15,000.00	90.00	0.812	6,480.00	8,433.11	-497.58	427,634.894	519,607.119	32.175669434	-104.269962368	
15,100.00	90.00	0.812	6,480.00	8,533.10	-496.17	427,734.884	519,608.536	32.175944305	-104.269957597	
15,200.00	90.00	0.812	6,480.00	8,633.09	-494.75	427,834.874	519,609.954	32.176219176	-104.269952825	
15,300.00	90.00	0.812	6,480.00	8,733.08	-493.33	427,934.863	519,611.371	32.176494047	-104.269948054	
15,400.00	90.00	0.812	6,480.00	8,833.07	-491.91	428,034.853	519,612.788	32.176768918	-104.269943283	
15,500.00	90.00	0.812	6,480.00	8,933.06	-490.50	428,134.843	519,614.206	32.177043789	-104.269938511	
15,600.00	90.00	0.812	6,480.00	9,033.05	-489.08	428,234.833	519,615.623	32.177318660	-104.269933740	
15,700.00	90.00	0.812	6,480.00	9,133.04	-487.66	428,334.822	519,617.040	32.177593531	-104.269928968	
15,800.00	90.00	0.812	6,480.00	9,233.03	-486.24	428,434.812	519,618.458	32.177868402	-104.269924197	
15,900.00	90.00	0.812	6,480.00	9,333.02	-484.83	428,534.802	519,619.875	32.178143273	-104.269919425	
16,000.00	90.00	0.812	6,480.00	9,433.01	-483.41	428,634.792	519,621.292	32.178418144	-104.269914654	
16,100.00	90.00	0.812	6,480.00	9,533.00	-481.99	428,734.781	519,622.710	32.178693015	-104.269909882	
16,200.00	90.00	0.812	6,480.00	9,632.99	-480.57	428,834.771	519,624.127	32.178967886	-104.269905110	
16,300.00	90.00	0.812	6,480.00	9,732.98	-479.16	428,934.761	519,625.545	32.179242757	-104.269900339	
16,400.00	90.00	0.812	6,480.00	9,832.97	-477.74	429,034.751	519,626.962	32.179517628	-104.269895567	
16,500.00	90.00	0.812	6,480.00	9,932.96	-476.32	429,134.740	519,628.379	32.179792498	-104.269890795	
16,600.00	90.00	0.812	6,480.00	10,032.95	-474.90	429,234.730	519,629.797	32.180067369	-104.269886023	
16,700.00	90.00	0.812	6,480.00	10,132.94	-473.49	429,334.720	519,631.214	32.180342240	-104.269881252	
16,800.00	90.00	0.812	6,480.00	10,232.93	-472.07	429,434.710	519,632.631	32.180617111	-104.269876480	
16,825.39	90.00	0.812	6,480.00	10,258.32	-471.71	429,460.100	519,632.991	32.180686908	-104.269875268	
LTP @ 16825.39 MD 6480.00 TVD										
16,875.40	90.00	0.812	6,480.00	10,308.32	-471.00	429,510.100	519,633.700	32.180824357	-104.269872882	
PBHL/TD @ 16875.40 MD 6480.00 TVD										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Jawbone 04 FTP 100 F5 - plan hits target center - Rectangle (sides W660.00 H10,540.08 D0.00)	0.00	0.812	5,880.00	-280.70	-621.10	418,921.100	519,483.600	32.151715237	-104.270378058	
Jawbone 04 LTP 100 FN - plan misses target center by 0.31ft at 16825.39ft MD (6480.00 TVD, 10258.32 N, -471.71 E) - Point	0.00	0.000	6,480.00	10,258.32	-471.40	429,460.100	519,633.300	32.180686907	-104.269874269	
Jawbone 04 BHL 50 FNI - plan hits target center - Point	0.00	0.000	6,480.00	10,308.32	-471.00	429,510.100	519,633.700	32.180824357	-104.269872881	



Planning Report - Geographic

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Project:	Eddy County, New Mexico NAD27 NME	MD Reference:	RKB=3380+26.5 @ 3406.50ft
Site:	Jawbone	North Reference:	Grid
Well:	Jawbone Fed Com LW 16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.00	1,000.00	0.00	0.00	KOP Begin 2°/100' build	
1,444.82	1,443.04	-14.19	-31.41	Begin 8.90° tangent	
5,406.41	5,356.96	-266.51	-589.69	Begin 2°/100' drop	
5,851.23	5,800.00	-280.70	-621.10	Begin vertical hold @ 5800.00 TVD	
5,931.23	5,880.00	-280.70	-621.10		
5,958.27	5,907.04	-280.70	-621.10	Begin 10°/100' build	
6,858.27	6,480.00	292.20	-612.98	Begin 90.00° lateral	
16,825.39	6,480.00	10,258.32	-471.71	LTP @ 16825.39 MD 6480.00 TVD	
16,875.40	6,480.00	10,308.32	-471.00	PBHL/TD @ 16875.40 MD 6480.00 TVD	

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

CONDITIONS

Action 300428

CONDITIONS

Operator: Flat Creek Resources, LLC 777 Main St. Fort Worth, TX 76102	OGRID: 374034
	Action Number: 300428
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	1/29/2024