



McElvain Energy, Inc.

Sec. 29 T18S R34E

EK 29 Federal Com

EK 29 BS2 Fed Com 1H - Slot WCD 1H

Wellbore #1

Plan: Design #1 15Dec15 kjs

Standard Planning Report - Geographic

22 December, 2015

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Planning Report - Geographic

Database: EDM 5000.1 Single User Db
 Company: McElvain Energy, Inc.
 Project: Sec. 29 T18S R34E
 Site: EK 29 Federal Com
 Well: EK 29 BS2 Fed Com 1H
 Wellbore: Wellbore #1
 Design: Design #1 15Dec15 kjs

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well EK 29 BS2 Fed Com 1H - Slot WCD 1H
 WELL @ 4070.0usft (Original Well Elev)
 WELL @ 4070.0usft (Original Well Elev)
 True
 Minimum Curvature

Project Sec. 29 T18S R34E

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site EK 29 Federal Com

Site Position: Northing: 628,457.30 usft Latitude: 32° 43' 31.429 N
 From: Map Easting: 773,430.60 usft Longitude: 103° 34' 43.046 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41 °

Well EK 29 BS2 Fed Com 1H - Slot WCD 1H

Well Position: +N/-S 0.0 usft Northing: 628,458.70 usft Latitude: 32° 43' 31.425 N
 +E/-W 0.0 usft Easting: 773,670.60 usft Longitude: 103° 34' 40.237 W
 Position Uncertainty: 0.0 usft Wellhead Elevation: Ground Level: 4,050.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/15/15	7.07	60.53	48,461

Design Design #1 15Dec15 kjs

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.00

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,191.3	4.37	68.34	2,191.0	4.1	10.3	1.50	1.50	0.00	68.34	
9,458.2	4.37	68.34	9,436.8	208.4	524.8	0.00	0.00	0.00	0.00	
10,070.4	71.80	180.00	9,903.4	-120.0	550.0	12.00	11.02	18.24	112.93	
10,208.7	88.40	180.00	9,927.1	-255.8	550.0	12.00	12.00	0.00	0.00	
14,794.7	88.40	180.00	10,055.2	-4,839.9	550.0	0.00	0.00	0.00	0.00	TD / PBHL EK 29 BS2



Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well EK 29 BS2 Fed Com 1H - Slot WCD 1H
Company:	McElvain Energy, Inc.	TVD Reference:	WELL @ 4070.0usft (Original Well Elev)
Project:	Sec. 29 T18S R34E	MD Reference:	WELL @ 4070.0usft (Original Well Elev)
Site:	EK 29 Federal Com	North Reference:	True
Well:	EK 29 BS2 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 15Dec15 kjs		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
200.0	0.00	0.00	200.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
400.0	0.00	0.00	400.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
600.0	0.00	0.00	600.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
800.0	0.00	0.00	800.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
1,870.0	0.00	0.00	1,870.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
Rustler										
1,900.0	0.00	0.00	1,900.0	0.0	0.0	628,458.70	773,670.60	32° 43' 31.425 N	103° 34' 40.237 W	
Start Build 1.50										
1,930.0	0.45	68.34	1,930.0	0.0	0.1	628,458.75	773,670.71	32° 43' 31.426 N	103° 34' 40.235 W	
Salt										
2,000.0	1.50	68.34	2,000.0	0.5	1.2	628,459.20	773,671.81	32° 43' 31.430 N	103° 34' 40.222 W	
2,191.3	4.37	68.34	2,191.0	4.1	10.3	628,462.88	773,680.89	32° 43' 31.466 N	103° 34' 40.116 W	
Hold 4.37 Inc, 68.34 Az										
2,200.0	4.37	68.34	2,199.7	4.3	10.9	628,463.12	773,681.50	32° 43' 31.468 N	103° 34' 40.109 W	
2,400.0	4.37	68.34	2,399.1	10.0	25.1	628,468.85	773,695.62	32° 43' 31.524 N	103° 34' 39.943 W	
2,600.0	4.37	68.34	2,598.5	15.6	39.3	628,474.57	773,709.74	32° 43' 31.580 N	103° 34' 39.777 W	
2,800.0	4.37	68.34	2,797.9	21.2	53.4	628,480.30	773,723.86	32° 43' 31.635 N	103° 34' 39.611 W	
3,000.0	4.37	68.34	2,997.4	26.8	67.6	628,486.02	773,737.98	32° 43' 31.691 N	103° 34' 39.446 W	
3,200.0	4.37	68.34	3,196.8	32.5	81.7	628,491.75	773,752.10	32° 43' 31.747 N	103° 34' 39.280 W	
3,400.0	4.37	68.34	3,396.2	38.1	95.9	628,497.47	773,766.21	32° 43' 31.802 N	103° 34' 39.114 W	
3,422.8	4.37	68.34	3,418.9	38.7	97.5	628,498.12	773,767.82	32° 43' 31.809 N	103° 34' 39.095 W	
Yates										
3,600.0	4.37	68.34	3,595.6	43.7	110.1	628,503.19	773,780.33	32° 43' 31.858 N	103° 34' 38.948 W	
3,800.0	4.37	68.34	3,795.0	49.3	124.2	628,508.92	773,794.45	32° 43' 31.914 N	103° 34' 38.783 W	
3,848.7	4.37	68.34	3,843.6	50.7	127.7	628,510.31	773,797.89	32° 43' 31.927 N	103° 34' 38.742 W	
Seven Rivers										
4,000.0	4.37	68.34	3,994.5	55.0	138.4	628,514.64	773,808.57	32° 43' 31.969 N	103° 34' 38.617 W	
4,200.0	4.37	68.34	4,193.9	60.6	152.5	628,520.37	773,822.69	32° 43' 32.025 N	103° 34' 38.451 W	
4,400.0	4.37	68.34	4,393.3	66.2	166.7	628,526.09	773,836.81	32° 43' 32.081 N	103° 34' 38.285 W	
4,600.0	4.37	68.34	4,592.7	71.8	180.8	628,531.82	773,850.93	32° 43' 32.136 N	103° 34' 38.120 W	
4,625.3	4.37	68.34	4,618.0	72.5	182.6	628,532.54	773,852.72	32° 43' 32.143 N	103° 34' 38.099 W	
Queen										
4,800.0	4.37	68.34	4,792.1	77.4	195.0	628,537.54	773,865.05	32° 43' 32.192 N	103° 34' 37.954 W	
4,926.0	4.37	68.34	4,917.7	81.0	203.9	628,541.15	773,873.94	32° 43' 32.227 N	103° 34' 37.850 W	
Penrose										
5,000.0	4.37	68.34	4,991.6	83.1	209.2	628,543.27	773,879.17	32° 43' 32.247 N	103° 34' 37.788 W	
5,200.0	4.37	68.34	5,191.0	88.7	223.3	628,548.99	773,893.29	32° 43' 32.303 N	103° 34' 37.623 W	
5,400.0	4.37	68.34	5,390.4	94.3	237.5	628,554.71	773,907.40	32° 43' 32.359 N	103° 34' 37.457 W	
5,452.1	4.37	68.34	5,442.3	95.8	241.2	628,556.20	773,911.08	32° 43' 32.373 N	103° 34' 37.414 W	
San Andres										
5,600.0	4.37	68.34	5,589.8	99.9	251.6	628,560.44	773,921.52	32° 43' 32.414 N	103° 34' 37.291 W	
5,677.6	4.37	68.34	5,667.1	102.1	257.1	628,562.66	773,927.00	32° 43' 32.436 N	103° 34' 37.227 W	
Delaware										
5,717.6	4.37	68.34	5,707.1	103.3	260.0	628,563.81	773,929.83	32° 43' 32.447 N	103° 34' 37.194 W	
1st Delaware Sand										
5,800.0	4.37	68.34	5,789.2	105.6	265.8	628,566.16	773,935.64	32° 43' 32.470 N	103° 34' 37.125 W	



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Wellbore: Wellbore #1
Design: Design #1 15Dec15 kjs

Local Co-ordinate Reference: Well EK 29 BS2 Fed Com 1H - Slot WCD 1H
TVD Reference: WELL @ 4070.0usft (Original Well Elev)
MD Reference: WELL @ 4070.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,878.0	4.37	68.34	5,867.0	107.8	271.3	628,568.39	773,941.15	32° 43' 32.492 N	103° 34' 37.061 W
2nd Delaware Sand									
6,000.0	4.37	68.34	5,988.7	111.2	280.0	628,571.89	773,949.76	32° 43' 32.526 N	103° 34' 36.960 W
6,200.0	4.37	68.34	6,188.1	116.8	294.1	628,577.61	773,963.88	32° 43' 32.581 N	103° 34' 36.794 W
6,400.0	4.37	68.34	6,387.5	122.4	308.3	628,583.34	773,978.00	32° 43' 32.637 N	103° 34' 36.628 W
6,600.0	4.37	68.34	6,586.9	128.1	322.4	628,589.06	773,992.12	32° 43' 32.693 N	103° 34' 36.462 W
6,629.6	4.37	68.34	6,616.4	128.9	324.5	628,589.91	773,994.21	32° 43' 32.701 N	103° 34' 36.438 W
Brushy Canyon									
6,800.0	4.37	68.34	6,786.3	133.7	336.6	628,594.78	774,006.24	32° 43' 32.748 N	103° 34' 36.297 W
7,000.0	4.37	68.34	6,985.7	139.3	350.8	628,600.51	774,020.36	32° 43' 32.804 N	103° 34' 36.131 W
7,200.0	4.37	68.34	7,185.2	144.9	364.9	628,606.23	774,034.48	32° 43' 32.860 N	103° 34' 35.965 W
7,400.0	4.37	68.34	7,384.6	150.6	379.1	628,611.96	774,048.59	32° 43' 32.915 N	103° 34' 35.799 W
7,600.0	4.37	68.34	7,584.0	156.2	393.2	628,617.68	774,062.71	32° 43' 32.971 N	103° 34' 35.634 W
7,800.0	4.37	68.34	7,783.4	161.8	407.4	628,623.41	774,076.83	32° 43' 33.026 N	103° 34' 35.468 W
7,857.2	4.37	68.34	7,840.4	163.4	411.4	628,625.04	774,080.87	32° 43' 33.042 N	103° 34' 35.420 W
Bone Spring									
8,000.0	4.37	68.34	7,982.8	167.4	421.6	628,629.13	774,090.95	32° 43' 33.082 N	103° 34' 35.302 W
8,200.0	4.37	68.34	8,182.3	173.0	435.7	628,634.85	774,105.07	32° 43' 33.138 N	103° 34' 35.136 W
8,400.0	4.37	68.34	8,381.7	178.7	449.9	628,640.58	774,119.19	32° 43' 33.193 N	103° 34' 34.971 W
8,600.0	4.37	68.34	8,581.1	184.3	464.0	628,646.30	774,133.31	32° 43' 33.249 N	103° 34' 34.805 W
8,800.0	4.37	68.34	8,780.5	189.9	478.2	628,652.03	774,147.43	32° 43' 33.305 N	103° 34' 34.639 W
9,000.0	4.37	68.34	8,979.9	195.5	492.4	628,657.75	774,161.55	32° 43' 33.360 N	103° 34' 34.473 W
9,084.8	4.37	68.34	9,064.5	197.9	498.4	628,660.18	774,167.53	32° 43' 33.384 N	103° 34' 34.403 W
1st Bone Spring Sand									
9,200.0	4.37	68.34	9,179.4	201.2	506.5	628,663.48	774,175.67	32° 43' 33.416 N	103° 34' 34.308 W
9,400.0	4.37	68.34	9,378.8	206.8	520.7	628,669.20	774,189.78	32° 43' 33.472 N	103° 34' 34.142 W
9,458.2	4.37	68.34	9,436.8	208.4	524.8	628,670.87	774,193.89	32° 43' 33.488 N	103° 34' 34.094 W
KOP 12/100 Build & Turn									
9,600.0	15.81	166.95	9,576.7	191.5	534.2	628,653.99	774,203.47	32° 43' 33.320 N	103° 34' 33.983 W
9,695.6	27.06	173.41	9,665.6	157.1	539.7	628,619.62	774,209.17	32° 43' 32.980 N	103° 34' 33.919 W
2nd Bone Spring Sand									
9,800.0	39.48	176.43	9,752.7	100.1	544.5	628,562.72	774,214.38	32° 43' 32.416 N	103° 34' 33.863 W
10,000.0	63.38	179.30	9,876.5	-55.0	549.6	628,407.64	774,220.61	32° 43' 30.881 N	103° 34' 33.803 W
10,070.4	71.80	180.00	9,903.4	-120.0	550.0	628,342.63	774,221.46	32° 43' 30.238 N	103° 34' 33.798 W
Top Target Window - TOP TARGET WINDOW									
10,200.0	87.35	180.00	9,926.7	-247.1	550.0	628,215.55	774,222.37	32° 43' 28.981 N	103° 34' 33.798 W
10,208.7	88.40	180.00	9,927.1	-255.8	550.0	628,206.86	774,222.43	32° 43' 28.895 N	103° 34' 33.798 W
Landing Pt 88.40 inc, 180 Az									
10,400.0	88.40	180.00	9,932.4	-447.0	550.0	628,015.64	774,223.79	32° 43' 27.003 N	103° 34' 33.798 W
10,600.0	88.40	180.00	9,938.0	-646.9	550.0	627,815.72	774,225.21	32° 43' 25.024 N	103° 34' 33.798 W
10,800.0	88.40	180.00	9,943.6	-846.8	550.0	627,615.81	774,226.64	32° 43' 23.046 N	103° 34' 33.798 W
11,000.0	88.40	180.00	9,949.2	-1,046.8	550.0	627,415.89	774,228.06	32° 43' 21.068 N	103° 34' 33.799 W
11,200.0	88.40	180.00	9,954.8	-1,246.7	550.0	627,215.97	774,229.49	32° 43' 19.090 N	103° 34' 33.799 W
11,400.0	88.40	180.00	9,960.3	-1,446.6	550.0	627,016.06	774,230.91	32° 43' 17.112 N	103° 34' 33.799 W
11,600.0	88.40	180.00	9,965.9	-1,646.5	550.0	626,816.14	774,232.34	32° 43' 15.134 N	103° 34' 33.799 W
11,800.0	88.40	180.00	9,971.5	-1,846.4	550.0	626,616.22	774,233.76	32° 43' 13.155 N	103° 34' 33.799 W
12,000.0	88.40	180.00	9,977.1	-2,046.4	550.0	626,416.31	774,235.19	32° 43' 11.177 N	103° 34' 33.799 W
12,200.0	88.40	180.00	9,982.7	-2,246.3	550.0	626,216.39	774,236.61	32° 43' 9.199 N	103° 34' 33.799 W
12,400.0	88.40	180.00	9,988.3	-2,446.2	550.0	626,016.47	774,238.04	32° 43' 7.221 N	103° 34' 33.799 W
12,600.0	88.40	180.00	9,993.9	-2,646.1	550.0	625,816.55	774,239.46	32° 43' 5.243 N	103° 34' 33.799 W
12,800.0	88.40	180.00	9,999.5	-2,846.1	550.0	625,616.64	774,240.89	32° 43' 3.265 N	103° 34' 33.799 W
13,000.0	88.40	180.00	10,005.1	-3,046.0	550.0	625,416.72	774,242.31	32° 43' 1.286 N	103° 34' 33.799 W
13,200.0	88.40	180.00	10,010.6	-3,245.9	550.0	625,216.80	774,243.74	32° 42' 59.308 N	103° 34' 33.799 W
13,400.0	88.40	180.00	10,016.2	-3,445.8	550.0	625,016.89	774,245.16	32° 42' 57.330 N	103° 34' 33.799 W



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Project:	Sec. 29 T18S R34E	MD Reference:	WELL @ 4070.0usft (Original Well Elev)
Site:	EK 29 Federal Com	North Reference:	True
Well:	EK 29 BS2 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 15Dec15 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,600.0	88.40	180.00	10,021.8	-3,645.7	550.0	624,816.97	774,246.59	32° 42' 55.352 N	103° 34' 33.799 W
13,800.0	88.40	180.00	10,027.4	-3,845.7	550.0	624,617.05	774,248.01	32° 42' 53.374 N	103° 34' 33.799 W
14,000.0	88.40	180.00	10,033.0	-4,045.6	550.0	624,417.14	774,249.44	32° 42' 51.396 N	103° 34' 33.799 W
14,200.0	88.40	180.00	10,038.6	-4,245.5	550.0	624,217.22	774,250.86	32° 42' 49.417 N	103° 34' 33.799 W
14,400.0	88.40	180.00	10,044.2	-4,445.4	550.0	624,017.30	774,252.29	32° 42' 47.439 N	103° 34' 33.799 W
14,410.2	88.40	180.00	10,044.5	-4,455.7	550.0	624,007.08	774,252.36	32° 42' 47.338 N	103° 34' 33.799 W
TARGET CENTER LINE									
14,600.0	88.40	180.00	10,049.8	-4,645.4	550.0	623,817.39	774,253.71	32° 42' 45.461 N	103° 34' 33.799 W
14,793.7	88.40	180.00	10,055.2	-4,839.0	550.0	623,623.77	774,255.09	32° 42' 43.545 N	103° 34' 33.799 W
TD at 14794.7									
14,794.7	88.40	180.00	10,055.2	-4,839.9	550.0	623,622.82	774,255.10	32° 42' 43.536 N	103° 34' 33.799 W
TD / PBHL EK 29 BS2 Fed Com 1H									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD / PBHL EK 29 BS2 F - plan hits target center - Point	0.00	0.00	10,055.2	-4,839.9	550.0	623,622.82	774,255.10	32° 42' 43.536 N	103° 34' 33.799 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
3,403.8	3,400.0	9 5/8"	9-5/8	12-1/4	



Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well EK 29 BS2 Fed Com 1H - Slot WCD 1H
Company:	McElvain Energy, Inc.	TVD Reference:	WELL @ 4070.0usft (Original Well Elev)
Project:	Sec. 29 T18S R34E	MD Reference:	WELL @ 4070.0usft (Original Well Elev)
Site:	EK 29 Federal Com	North Reference:	True
Well:	EK 29 BS2 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 15Dec15 kjs		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,870.0	1,870.0	Rustler		1.60	180.00
1,930.0	1,930.0	Salt		1.60	180.00
3,422.8	3,418.9	Yates		1.60	180.00
3,848.7	3,843.6	Seven Rivers		1.60	180.00
4,625.3	4,618.0	Queen		1.60	180.00
4,926.0	4,917.7	Penrose		1.60	180.00
5,452.1	5,442.3	San Andres		1.60	180.00
5,677.6	5,667.1	Delaware		1.60	180.00
5,717.6	5,707.1	1st Delaware Sand		1.60	180.00
5,878.0	5,867.0	2nd Delaware Sand		1.60	180.00
6,629.6	6,616.4	Brushy Canyon		1.60	180.00
7,857.2	7,840.4	Bone Spring		1.60	180.00
9,084.8	9,064.5	1st Bone Spring Sand		1.60	180.00
9,695.6	9,665.6	2nd Bone Spring Sand		1.60	180.00
10,070.4	9,903.4	TOP TARGET WINDOW		1.60	180.00
14,410.2	10,044.5	TARGET CENTER LINE		1.60	180.00

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,900.0	1,900.0	0.0	0.0	Start Build 1.50
2,191.3	2,191.0	4.1	10.3	Hold 4.37 Inc, 68.34 Az
9,458.2	9,436.8	208.4	524.8	KOP 12/100 Build & Turn
10,070.4	9,903.4	-120.0	550.0	Top Target Window
10,208.7	9,927.1	-255.8	550.0	Landing Pt 88.40 inc, 180 Az
14,793.7	10,055.2	-4,839.0	550.0	TD at 14794.7