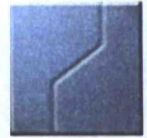


Job Number:	3097	Elev. GL:	3554.30 ft	RKB:	21.50 ft
Company:	Fasken Oil and Ranch	System:	US State Plane 1927 (Exact solution)		
Lease/Well:	Baetz 23 Federal No. 3H	Group:	New Mexico East 3001		
Location:	SE New Mexico	Datum:	CLARKE 1866		
Rig Name:	Nomac #54	Mag. Decl.:	7.27° (C:\HawkEye\IGRF2005.MIF)		
State/County:	New Mexico/ Lea	Grid Conv.:	0.32460 E		
Country:	USA	Date:	Wednesday, February 24, 2016		



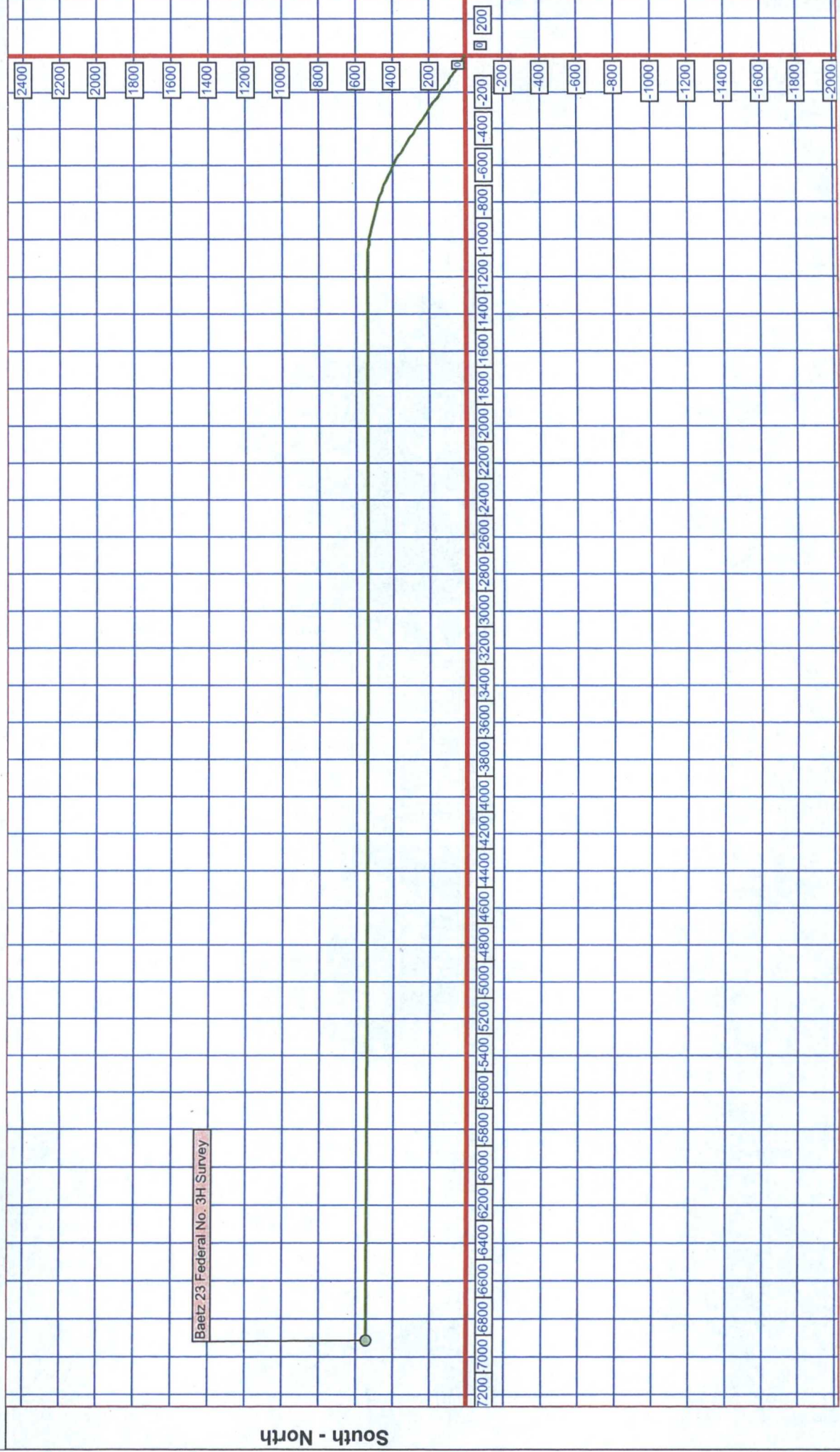
Calculated by HawkEye Software
Minimum Curvature Method
Vertical Section Plane 0.50°
Northing (US ft): 564625.10 Easting (US ft): 685875.10
Latitude: 32°33'2.9342" N Longitude: -103°43'48.3482" W
Well Location: 171.46 FNL, 694.30 FEL, Section 26, T20S, R32E, New Mexico Principal Meridian, Lea County, NM
Direction Reference: Grid North

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	NS (Ft)	VS (Ft)	Closure (Ft)	Closure Dir Deg	Walk Rate %/100 Ft	Build Rate %/100 Ft	DLS %/100 Ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9227.04	0.00	0.00	9227.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9257.04	3.00	304.00	9257.03	-0.65	0.44	0.43	0.79	304.00	-186.67	10.00	10.00
9287.04	6.00	304.00	9286.93	-2.60	1.76	1.73	3.14	304.00	0.00	10.00	10.00
9317.04	9.00	304.00	9316.67	-5.85	3.94	3.89	7.05	304.00	0.00	10.00	10.00
9347.04	12.00	304.00	9346.16	-10.38	7.00	6.91	12.52	304.00	0.00	10.00	10.00
9377.04	15.00	304.00	9375.33	-16.19	10.92	10.78	19.52	304.00	0.00	10.00	10.00
9407.04	18.00	304.00	9404.09	-23.25	15.68	15.48	28.04	304.00	0.00	10.00	10.00
9437.04	21.00	304.00	9432.37	-31.55	21.28	21.00	38.06	304.00	0.00	10.00	10.00
9467.04	24.00	304.00	9460.08	-41.07	27.70	27.34	49.53	304.00	0.00	10.00	10.00
9497.04	27.00	304.00	9487.16	-51.77	34.92	34.47	62.45	304.00	0.00	10.00	10.00
9527.04	30.00	304.00	9513.52	-63.64	42.92	42.37	76.76	304.00	0.00	10.00	10.00
9557.04	33.00	304.00	9539.10	-76.63	51.69	51.02	92.43	304.00	0.00	10.00	10.00
9587.04	36.00	304.00	9563.82	-90.72	61.19	60.40	109.43	304.00	0.00	10.00	10.00
9617.04	39.00	304.00	9587.61	-105.86	71.40	70.47	127.69	304.00	0.00	10.00	10.00
9647.04	42.00	304.00	9610.42	-122.01	82.29	81.23	147.17	304.00	0.00	10.00	10.00
9677.04	45.00	304.00	9632.18	-139.13	93.84	92.62	167.82	304.00	0.00	10.00	10.00
9707.04	48.00	304.00	9652.83	-157.16	106.01	104.63	189.57	304.00	0.00	10.00	10.00
9737.04	51.00	304.00	9672.31	-176.07	118.76	117.22	212.38	304.00	0.00	10.00	10.00
9767.04	54.00	304.00	9690.57	-195.80	132.07	130.36	236.18	304.00	0.00	10.00	10.00
9797.04	57.00	304.00	9707.56	-216.30	145.89	144.00	260.90	304.00	0.00	10.00	10.00
9827.04	60.00	304.00	9723.24	-237.50	160.20	158.12	286.48	304.00	0.00	10.00	10.00
9857.04	63.00	304.00	9737.55	-259.36	174.94	172.67	312.84	304.00	0.00	10.00	10.00
9887.04	66.00	304.00	9750.46	-281.80	190.08	187.61	339.91	304.00	0.00	10.00	10.00
9917.04	69.00	304.00	9761.94	-304.78	205.58	202.91	367.63	304.00	0.00	10.00	10.00
9947.04	72.00	304.00	9771.96	-328.22	221.39	218.51	395.90	304.00	0.00	10.00	10.00
9977.04	75.00	304.00	9780.47	-352.06	237.47	234.39	424.67	304.00	0.00	10.00	10.00
10007.04	78.00	304.00	9787.48	-376.24	253.78	250.49	453.83	304.00	0.00	10.00	10.00
10037.04	81.00	304.00	9792.94	-400.70	270.27	266.77	483.33	304.00	0.00	10.00	10.00
10067.04	84.00	304.00	9796.86	-425.35	286.90	283.18	513.07	304.00	0.00	10.00	10.00
10097.04	87.00	304.00	9799.21	-450.14	303.63	299.69	542.97	304.00	0.00	10.00	10.00
10127.03	90.00	304.00	9800.00	-475.00	320.39	316.23	572.95	304.00	0.00	10.00	10.00
10157.03	90.04	302.65	9799.99	-500.06	336.87	332.49	602.95	303.97	-4.50	0.13	4.50
10187.03	90.08	301.30	9799.96	-525.51	352.76	348.16	632.93	303.87	-4.50	0.13	4.50
10217.03	90.12	299.95	9799.90	-551.32	368.04	363.21	662.88	303.73	-4.50	0.13	4.50
10247.03	90.16	298.60	9799.83	-577.49	382.71	377.66	692.79	303.53	-4.50	0.13	4.50
10277.03	90.20	297.25	9799.74	-604.00	396.76	391.47	722.65	303.30	-4.50	0.13	4.50
10307.03	90.24	295.90	9799.63	-630.83	410.18	404.66	752.46	303.03	-4.50	0.13	4.50
10337.03	90.28	294.55	9799.49	-657.96	422.97	417.21	782.19	302.73	-4.50	0.13	4.50
10367.03	90.31	293.20	9799.34	-685.39	435.11	429.11	811.84	302.41	-4.50	0.13	4.50
10397.03	90.35	291.86	9799.16	-713.10	446.61	440.37	841.41	302.06	-4.50	0.13	4.50
10427.03	90.39	290.51	9798.97	-741.08	457.45	450.96	870.89	301.69	-4.50	0.13	4.50
10457.03	90.43	289.16	9798.75	-769.30	467.62	460.89	900.27	301.29	-4.50	0.13	4.50
10487.03	90.47	287.81	9798.52	-797.75	477.13	470.15	929.54	300.88	-4.50	0.13	4.50

Measured Depth (Ft)	INC Deg	AZM Deg	TVD (Ft)	EW (Ft)	NS (Ft)	VS (Ft)	Closure (Ft)	Closure Dir Deg	Walk Rate "/100 Ft	Build Rate "/100 Ft	DLS "/100 Ft
10517.03	90.51	286.46	9798.26	-826.41	485.97	478.74	958.71	300.46	-4.50	0.13	4.50
10547.03	90.54	285.11	9797.99	-855.28	494.13	486.64	987.76	300.02	-4.50	0.13	4.50
10577.03	90.58	283.76	9797.69	-884.33	501.60	493.87	1016.69	299.56	-4.50	0.12	4.50
10607.03	90.62	282.41	9797.38	-913.55	508.39	500.40	1045.49	299.10	-4.50	0.12	4.50
10637.03	90.66	281.06	9797.04	-942.92	514.49	506.25	1074.15	298.62	-4.50	0.12	4.50
10667.03	90.69	279.71	9796.69	-972.43	519.90	511.40	1102.68	298.13	-4.50	0.12	4.50
10697.03	90.73	278.36	9796.32	-1002.05	524.61	515.85	1131.07	297.63	-4.50	0.12	4.50
10727.03	90.76	277.01	9795.93	-1031.78	528.62	519.60	1159.32	297.13	-4.50	0.12	4.50
10757.03	90.80	275.66	9795.52	-1061.59	531.93	522.65	1187.41	296.61	-4.50	0.12	4.50
10787.03	90.83	274.31	9795.09	-1091.48	534.54	524.99	1215.34	296.09	-4.50	0.12	4.50
10817.03	90.87	272.96	9794.65	-1121.41	536.44	526.64	1243.11	295.56	-4.50	0.11	4.50
10847.03	90.90	271.61	9794.19	-1151.38	537.64	527.57	1270.72	295.03	-4.50	0.11	4.50
10877.03	90.93	270.26	9793.71	-1181.37	538.13	527.80	1298.16	294.49	-4.50	0.11	4.50
10881.78	90.94	270.05	9793.63	-1186.12	538.14	527.77	1302.49	294.40	-4.50	0.11	4.50
10882.16	90.94	270.05	9793.62	-1186.51	538.14	527.77	1302.84	294.40	-0.01	-0.41	0.41
16607.43	90.94	270.05	9700.00	-6911.00	542.90	482.57	6932.30	274.49	0.00	0.00	0.00

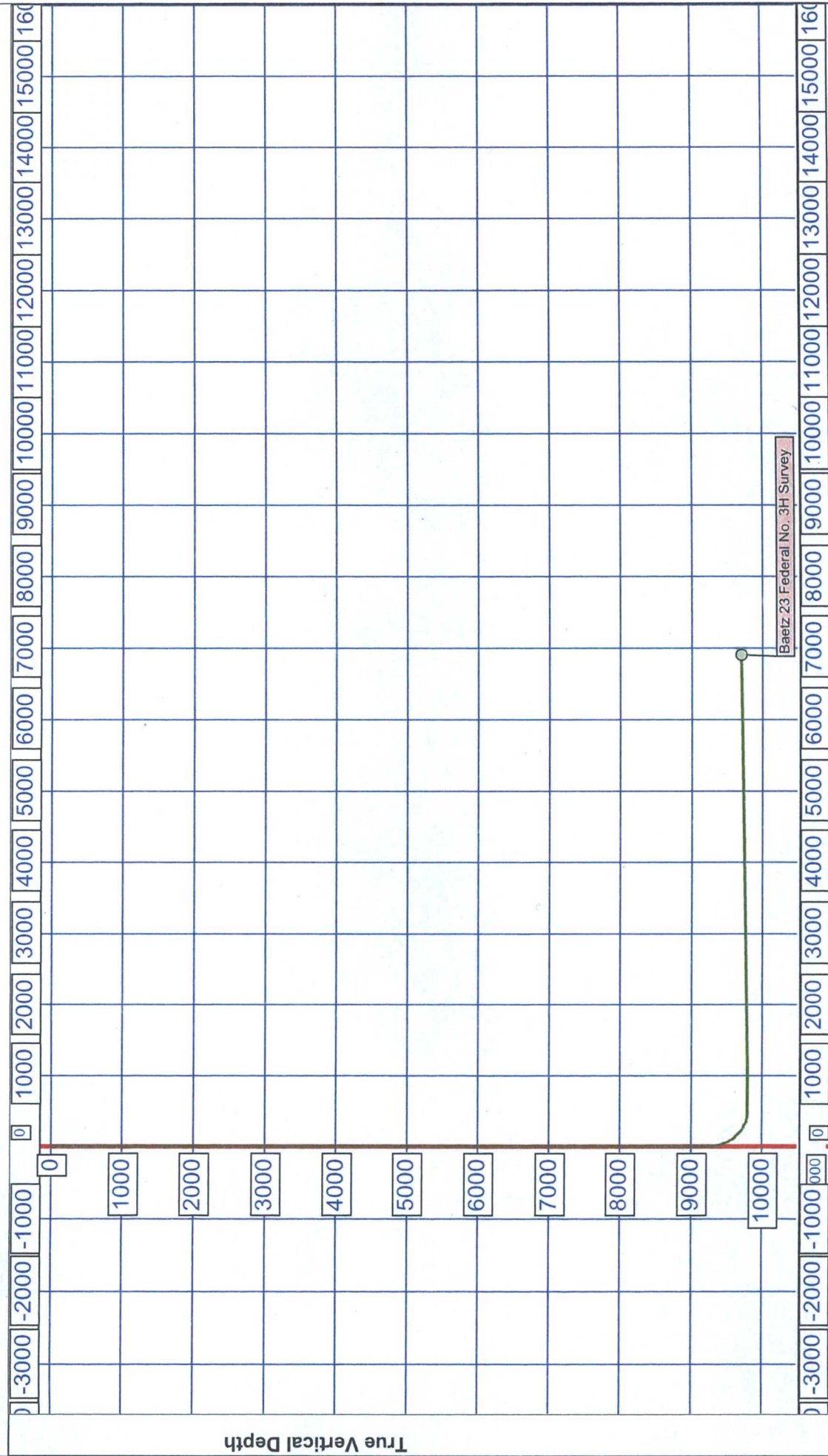
Job Number: 3097
Company: Fasken Oil and Ranch
Lease/Well: Baelz 23 Federal No. 3H
Location: SE New Mexico
Rig Name: Nomac #54
State/County: New Mexico/ Lea
Country: USA
API Number:

Elevation (To MSL): 3554.30 ft
RKB: 21.50 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: New Mexico East 3001
Projection Datum: CLARKE 1866
Magnetic Declination: 7.27
Grid Convergence: 0.32460 E
Date: Tuesday, February 09, 2016



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Vertical Section (1000 Ft/Div) VSP: 270.00°