

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

*revised items #25, 30, 31, NM-DIV-2
1301 W. Grand Avenue
Alamosa, NM 88210

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

CONFIDENTIAL

5. Lease Serial No.
NM-NM81220

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name N/A	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other _____		7. Unit or CA Agreement Name and no. N/A	
2. Name of Operator Devon Energy Production Company, L.P.		8. Lease Name and Well No. Old Ranch Knoll 8 Fed Com 7	
3. Address 20 N. Broadway, suite 1500, OKC, OK 73102		9. API Well No. 30-015-32621	
3.a Phone No. (Include area code) (405)228-8609		10. Field and Pool, or Exploratory Indian Basin (Upper Penn) Assoc.	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface 1790' FNL & 2170' FEL, Unit G, Section 8-T22S-R24E, Eddy Cnty, NM At top prod. interval reported below 1941' FSL & 2059' FEL, Unit J, Section 8-T22S-R24E At total depth 1679' FSL & 2069' FEL, Unit J, Section 8-T22S-R24E		11. Sec., T., R., M., on Block and Survey or Area 8-22S - 24E	
14. Date Spudded 03/14/2003		15. Date T.D. Reached 04/11/2003	
16. Date Completed ☐ D & A ☒ Ready to Prod. 04/29/2003		17. Elevations (DF, RKB, RT, GL)* GL 4290', DF 4306', KB 4307'	

18. Total Depth: MD 9040' TVD 8649'	19. Plug Back T.D.: MD 8979' TVD 8591'	20. Depth Bridge Plug Set: MD TVD
21. Type of Electric & Other Mechanical Logs Run (Submit copy of each) Platform Express Three Detector Litho-Density Compensated Neutron/NGT, Azimuthal Laterolog MCFL/NGT and CBL/GR/CCL		22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	13 3/8" N80	68#	surface	410'		see item 32		surface	
12 1/4"	9 5/8" J55	36#	surface	1603'		see item 32		surface	
8 3/4"	7" J55 & HCL-80	23#	surface	9040'	8299'	see item 32		5150' CBL	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	ESP @ 8918'							

*25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Cisco Reef	8393'	8777'	8398-8772'	.41" EHD	263	Producing
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8398-8772'	27,500 gals 20% NeFe + 263 BS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
4-29-03	5-9-03	24	→	821	1812	2202	40		DN-3000 down hole pumps
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→	821	1812	2202	2207/1	Producing	

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						DN-3000 down hole pumps
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

DN-3000 down hole pumps

DEC 3 - 2003

PRODUCTION METHOD
BABYAK
PETROLEUM ENGINEER

RECEIVED

DEC 13 2004

OOD:ARTERIA

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	Producing

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
sold

*30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

*31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Cisco Reef	8393'	8777'	gas, oil, water	Glorietta	2686'
				Bone Spring	3584'
				3rd Bone Spring	7148'
				Wolfcamp	7651'
				Upper Penn	8110'
				Cisco Reef	8393'
				TD	9040'

*32. Additional remarks (include plugging procedure):

Had problems with hole fall in: at 365' pumped 120 sx Class H w/yield 0.94 cf; at 410' pumped 288 sx Class H w/yield 1.52 cf + 20 yds Redi-mix; cemented 13 3/8" casing= 4 yds Redi-mix down backside.

Cemented 9 5/8" casing= 400 sx 35/65 Poz C w/yield 1.9 cf + 200 sx Class C w/yield 1.35 cf + down 1" tubing topped with 280 sx Class C w/yield 1.32 cf.

Cemented 7" casing= 1st stage with 175 sx Class H w/yield 1.2 cf; 2nd stage with 450 sx 60/40 Pozmix C w/yield 1.33 cf.

33. Circle enclosed attachments:

- ☒ 1. Electrical/Mechanical Logs (1 full set req'd.)
 ☐ 2. Geological Report
 ☐ 3. DST Report
 ☒ 4. Directional Survey
☐ 5. Sundry Notice for plugging and cement verification
☐ 6. Core Analysis
☒ 7. Other -deviation survey

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Candace R. Graham Title Operations Tech. II (candi.graham@dmv.com)

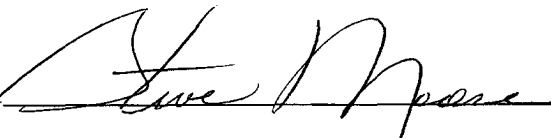
Signature Candace R. Graham Date 11/25/2003

OPERATOR: DEVON ENERGY PRODUCTION CO. LP
WELL/LEASE: OLD RANCH KNOLL 8 FED. 7
COUNTY: EDDY

005-0018

STATE OF NEW MEXICO
DEVIATION REPORT

496	3/4
588	1
966	1/2
1,467	1/2
1,706	3/4
1,989	1/4
2,270	3/4
2,583	3/4
2,897	1 1/2
2,992	1/2
3,182	1 1/4
3,433	1 1/2
3,679	1 1/2

By: 

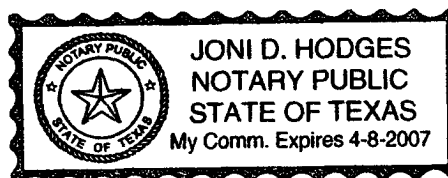
STATE OF TEXAS

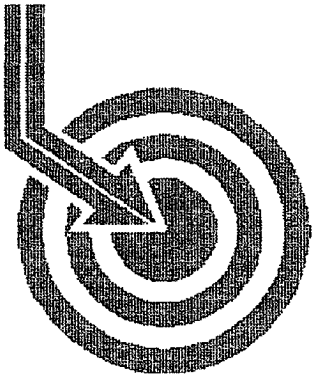
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 22nd day of April, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.


Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007





Scientific Drilling

DEVON ENERGY

Field: Indian Basin
Site: Eddy County, NM
Well: Old Ranch Knoll 8 Fed. #7
Wellpath: VH - Job #32K0403187
Survey: 04/21/03

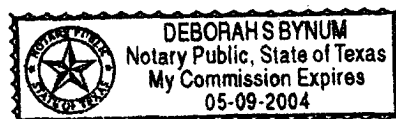
This survey is correct to the best of my knowledge
and is supported by actual field data.

David Mery Company Representative

Notorized this date 22nd of April, 2003.

Deborah S Bynum
Notary Signature

County of Midland
State of Texas



Scientific Drilling International

Survey Report

Company: DEVON ENERGY Field: Indian Basin Site: Eddy County, NM Well: Old Ranch Knoll 8 Fed. #7 Wellpath: VH - Job #32K0403187	Date: 4/22/2003 Co-ordinate(NE) Reference: Site: Eddy County, NM, True North Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level Section (VS) Reference: Well (0.0E, 0.0N, 176.8Azi) Survey Calculation Method: Minimum Curvature
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Survey: 04/21/03 KSRG 0'-8948'	Start Date: 4/22/2003 Company: Scientific Drilling Internatio Tool: Keeper
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Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.28	231.39	100.0	-0.2	-0.2	-0.2	0.2	231.39	0.28
200.0	0.48	249.13	200.0	-0.5	-0.5	-0.8	0.9	239.57	0.23
300.0	0.43	251.27	300.0	-0.7	-0.7	-1.5	1.7	244.53	0.05
400.0	0.43	241.21	400.0	-1.0	-1.0	-2.2	2.4	245.06	0.08
500.0	0.40	255.40	500.0	-1.3	-1.3	-2.9	3.1	245.74	0.11
600.0	0.53	264.81	600.0	-1.4	-1.4	-3.7	3.9	248.79	0.15
700.0	0.51	255.42	700.0	-1.6	-1.6	-4.6	4.8	250.92	0.09
800.0	0.61	285.48	800.0	-1.5	-1.5	-5.5	5.7	254.30	0.31
900.0	0.73	260.94	900.0	-1.5	-1.5	-6.6	6.8	257.24	0.31
1000.0	1.10	272.38	1000.0	-1.6	-1.6	-8.2	8.4	259.23	0.41
1100.0	1.27	264.41	1099.9	-1.6	-1.6	-10.3	10.4	260.98	0.24
1200.0	1.08	269.59	1199.9	-1.7	-1.7	-12.3	12.5	261.93	0.22
1300.0	0.82	254.42	1299.9	-1.9	-1.9	-14.0	14.1	262.06	0.36
1400.0	0.77	257.51	1399.9	-2.3	-2.3	-15.3	15.5	261.51	0.07
1500.0	0.82	243.36	1499.9	-2.8	-2.8	-16.6	16.8	260.60	0.20
1600.0	0.59	308.55	1599.9	-2.8	-2.8	-17.7	17.9	261.14	0.78
1700.0	0.66	306.39	1699.9	-2.1	-2.1	-18.5	18.6	263.57	0.07
1800.0	0.73	307.14	1799.9	-1.4	-1.4	-19.5	19.5	266.00	0.07
1900.0	0.52	287.87	1899.9	-0.8	-0.8	-20.4	20.5	267.65	0.29
2000.0	0.72	305.95	1999.9	-0.3	-0.3	-21.4	21.4	269.11	0.28
2100.0	0.73	303.97	2099.8	0.4	0.4	-22.4	22.4	271.01	0.03
2200.0	0.80	298.27	2199.8	1.1	1.1	-23.6	23.6	272.63	0.10
2300.0	0.73	290.54	2299.8	1.6	1.6	-24.8	24.8	273.78	0.12
2400.0	0.78	286.57	2399.8	2.1	2.1	-26.0	26.1	274.51	0.07
2500.0	0.74	287.52	2499.8	2.4	2.4	-27.3	27.4	275.11	0.04
2600.0	0.68	289.06	2599.8	2.8	2.8	-28.5	28.6	275.68	0.06
2700.0	0.73	285.28	2699.8	3.2	3.2	-29.6	29.8	276.15	0.07
2800.0	0.73	278.30	2799.8	3.5	3.5	-30.9	31.1	276.38	0.09
2900.0	0.77	274.27	2899.8	3.6	3.6	-32.2	32.4	276.37	0.07
3000.0	0.82	270.92	2999.8	3.7	3.7	-33.6	33.8	276.21	0.07
3100.0	0.83	266.42	3099.8	3.6	3.6	-35.0	35.2	275.91	0.07
3200.0	0.90	268.49	3199.7	3.6	3.6	-36.5	36.7	275.56	0.08
3300.0	0.88	261.74	3299.7	3.4	3.4	-38.1	38.2	275.14	0.11
3400.0	0.91	252.31	3399.7	3.1	3.1	-39.6	39.7	274.44	0.15
3500.0	0.99	240.24	3499.7	2.4	2.4	-41.1	41.2	273.35	0.22
3600.0	1.09	240.45	3599.7	1.5	1.5	-42.7	42.7	272.02	0.10
3700.0	1.08	239.85	3699.7	0.6	0.6	-44.3	44.3	270.73	0.02
3800.0	1.14	234.26	3799.7	-0.5	-0.5	-45.9	45.9	269.38	0.12
3900.0	1.19	239.10	3899.6	-1.6	-1.6	-47.6	47.6	268.07	0.11
4000.0	1.27	236.23	3999.6	-2.8	-2.8	-49.4	49.5	266.81	0.10
4100.0	2.85	189.91	4099.5	-5.8	-5.8	-50.8	51.1	263.46	2.18
4200.0	3.98	173.80	4199.4	-11.7	-11.7	-50.8	52.2	257.02	1.47
4300.0	5.51	167.54	4299.0	-19.9	-19.9	-49.4	53.3	248.11	1.61
4400.0	7.08	171.05	4398.4	-30.6	-30.6	-47.4	56.5	237.14	1.62
4500.0	8.36	176.44	4497.5	-44.0	-44.0	-46.0	63.7	226.30	1.47
4600.0	9.90	175.44	4596.2	-59.8	-59.8	-44.9	74.8	216.89	1.55
4700.0	10.75	168.99	4694.6	-77.5	-77.5	-42.4	88.4	208.68	1.43

Scientific Drilling International

Survey Report

Company: DEVON ENERGY
Field: Indian Basin
Site: Eddy County, NM
Well: Old Ranch Knoll 8 Fed. #7
Wellpath: VH - Job #32K0403187

Date: 4/22/2003 **Time:** 09:58:38 **Page:** 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Well (0.0E,0.0N,176.8Azi)
Survey Calculation Method: Minimum Curvature

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	ClsD ft	ClsA deg	DLS deg/100ft
4800.0	12.48	169.69	4792.6	-97.3	-97.3	-38.7	104.7	201.69	1.74
4900.0	13.41	170.11	4890.0	-119.4	-119.4	-34.8	124.3	196.24	0.93
5000.0	14.58	170.77	4987.1	-143.2	-143.2	-30.8	146.5	192.12	1.18
5100.0	16.77	171.77	5083.3	-169.9	-169.9	-26.7	172.0	188.92	2.21
5200.0	17.14	171.78	5179.0	-198.8	-198.8	-22.5	200.1	186.46	0.37
5300.0	18.50	172.90	5274.2	-229.1	-229.1	-18.4	229.9	184.60	1.40
5400.0	20.06	172.32	5368.6	-261.9	-261.9	-14.2	262.2	183.10	1.57
5500.0	20.73	171.03	5462.3	-296.3	-296.3	-9.1	296.5	181.77	0.81
5600.0	21.07	171.51	5555.7	-331.6	-331.6	-3.7	331.6	180.64	0.38
5700.0	19.89	171.80	5649.4	-366.2	-366.2	1.4	366.2	179.79	1.18
5800.0	20.73	172.08	5743.2	-400.6	-400.6	6.2	400.6	179.11	0.85
5900.0	22.27	170.76	5836.2	-436.8	-436.8	11.7	437.0	178.47	1.61
6000.0	23.99	170.43	5928.2	-475.6	-475.6	18.1	475.9	177.82	1.72
6100.0	25.32	171.26	6019.1	-516.7	-516.7	24.8	517.3	177.26	1.37
6200.0	25.11	170.97	6109.5	-558.8	-558.8	31.3	559.7	176.79	0.24
6300.0	25.72	171.61	6199.9	-601.3	-601.3	37.8	602.5	176.40	0.67
6400.0	26.52	171.48	6289.6	-644.8	-644.8	44.3	646.3	176.07	0.80
6500.0	29.03	175.31	6378.1	-691.1	-691.1	49.6	692.9	175.90	3.08
6600.0	29.79	175.73	6465.2	-740.0	-740.0	53.4	742.0	175.87	0.79
6700.0	30.02	175.25	6551.9	-789.7	-789.7	57.3	791.8	175.85	0.33
6800.0	27.69	174.06	6639.5	-837.8	-837.8	61.8	840.1	175.78	2.40
6900.0	27.87	176.45	6728.0	-884.2	-884.2	65.7	886.7	175.75	1.13
7000.0	28.43	175.45	6816.2	-931.3	-931.3	69.0	933.8	175.76	0.73
7100.0	29.11	174.14	6903.8	-979.2	-979.2	73.4	982.0	175.71	0.93
7200.0	28.68	175.11	6991.4	-1027.3	-1027.3	77.9	1030.3	175.66	0.64
7300.0	28.94	176.52	7079.0	-1075.4	-1075.4	81.4	1078.5	175.67	0.73
7400.0	28.90	175.83	7166.5	-1123.6	-1123.6	84.7	1126.8	175.69	0.34
7500.0	27.07	175.26	7254.8	-1170.4	-1170.4	88.3	1173.7	175.69	1.85
7600.0	27.42	175.01	7343.7	-1216.0	-1216.0	92.2	1219.5	175.67	0.37
7700.0	25.55	175.47	7433.2	-1260.5	-1260.5	95.9	1264.1	175.65	1.88
7800.0	26.03	179.87	7523.3	-1303.9	-1303.9	97.6	1307.6	175.72	1.97
7900.0	25.32	178.01	7613.4	-1347.2	-1347.2	98.4	1350.8	175.82	1.07
8000.0	23.41	177.68	7704.5	-1388.4	-1388.4	100.0	1392.0	175.88	1.91
8100.0	24.41	176.07	7795.9	-1428.9	-1428.9	102.2	1432.6	175.91	1.19
8200.0	24.67	173.64	7886.9	-1470.3	-1470.3	105.9	1474.1	175.88	1.04
8300.0	22.66	175.10	7978.5	-1510.2	-1510.2	109.9	1514.2	175.84	2.09
8400.0	23.04	180.87	8070.6	-1549.0	-1549.0	111.2	1553.0	175.89	2.27
8500.0	24.61	182.65	8162.1	-1589.3	-1589.3	110.0	1593.1	176.04	1.73
8600.0	25.86	182.66	8252.6	-1631.9	-1631.9	108.0	1635.5	176.21	1.25
8700.0	27.12	182.24	8342.1	-1676.5	-1676.5	106.1	1679.8	176.38	1.27
8800.0	28.26	182.16	8430.6	-1722.9	-1722.9	104.3	1726.1	176.54	1.14
8900.0	28.29	183.43	8518.7	-1770.2	-1770.2	102.0	1773.2	176.70	0.60
8948.0	27.37	185.20	8561.1	-1792.6	-1792.6	100.3	1795.4	176.80	2.58



**Scientific
Drilling**

Field: Indian Basin
Site: Eddy County, NM
Well: Old Ranch Knoll 8 Fed. #7
Wellpath: VH - Job #32K0403187
Survey: 04/21/03

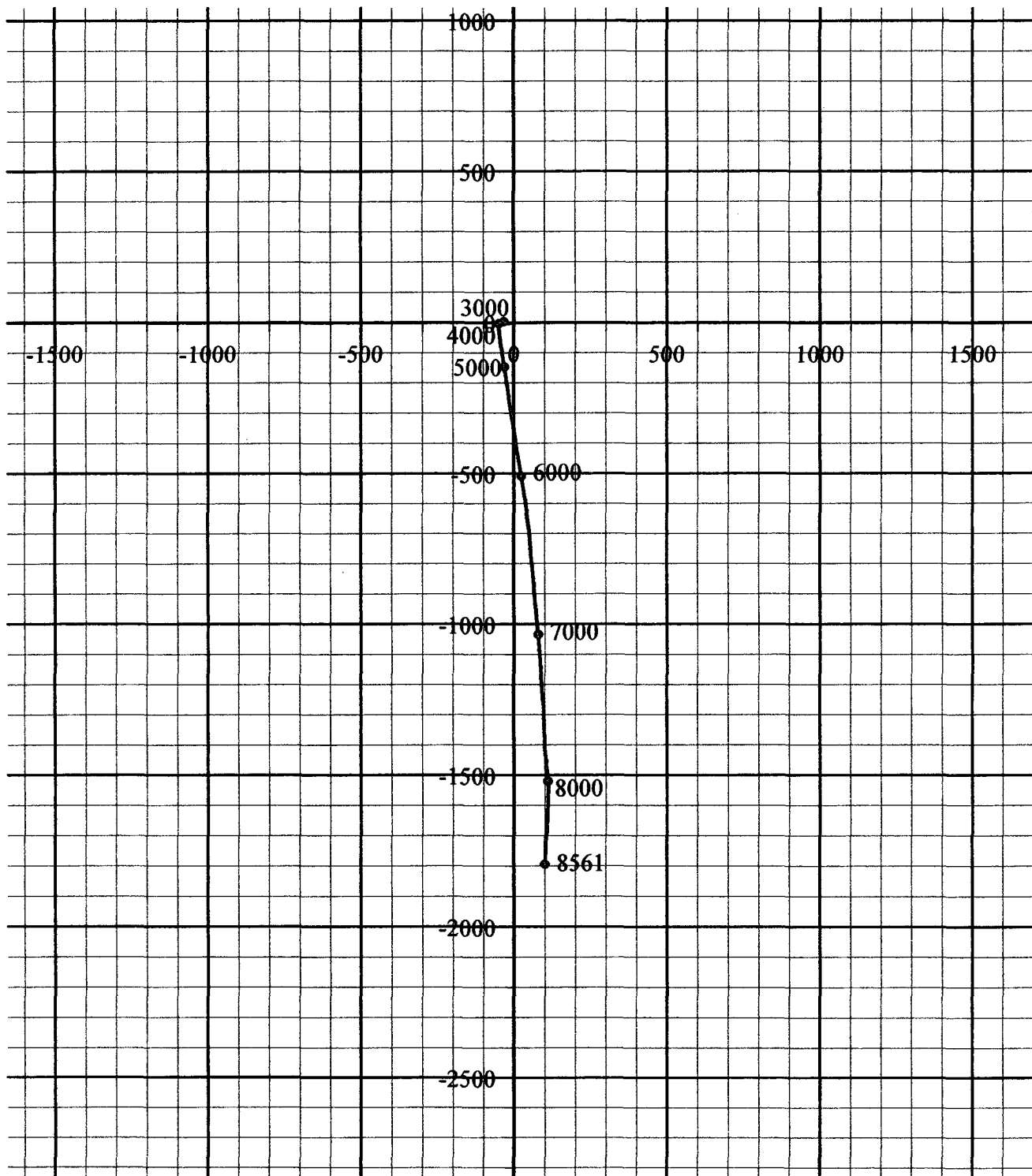
T/M



All Angles Relative
To True North

True North: 0.00
Magnetic North: 0.00

South(-)/North(+) [500ft/in]



West(-)/East(+) [500ft/in]