

WELL LOGS

K Z

API number:	30-025-38791		
OGRID:		Operator:	APACHE CORP
		Property:	HESTER 12 # 9

surface	ULSTR:	K	12	T	20S	R	38E
			2440	FSL	2500	FWL	

BH Loc	ULSTR:	K	12	T	20S	R	38E
			2309	FSL	2309	FWL	

Ground Level:	3560	DF:	3570	KB:	3571
Datum:	KB			TD:	7346

Land: STATE

Completion Date: (1) 7/24/2008

Date Logs Received: 7/11/2008

Date Logs Due in: (2)

Confidential:	NO			Date out:	
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
MPD/MDN	100	7299	Compensated Neutron Photo Density GR
MLE/MMR	1589	7316	Dual Laterolog Micro Laterolog
MSS	1589	7343	Compensated Sonic Gamma Ray Log

K Z

OCD TOPS

Rustler	1550	Strawn		
Tansill	2717	Atoka		
Yates	2880	Morrow		
7R	3099			
T. Bowers Sd	3424			
B. Bowers Sd	3497			
Queen	3669			
Penrose				
Grayburg				
San Andres	4276			
Glorieta	5632			
	6059			
Tubb	6554			
Drinkard	6872			
Abo	7140			
Wolfcamp				

Submit 3 Copies To Appropriate District Office
District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		WELL API NO. 30-025-38791
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Apache Corporation		6. State Oil & Gas Lease No. N/A
3. Address of Operator 6120 S Yale Ave, Suite 1500 Tulsa, OK 74136-4224		7. Lease Name or Unit Agreement Name Hester 12
4. Well Location Unit Letter K : 2440 feet from the South line and 2500 feet from the West line Section 12 Township 20S Range 38E NMPM County Lea		8. Well Number 009
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,564' GR		9. OGRID Number 00873
Pit or Below-grade Tank Application ☐ or Closure ☐		
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Completion Procedure ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

07/10/08 PERF DRINKARD @ 6979-83, 7002-06, 7016-20, 7030-34, 7048-52, 7080-84' 2 JSPF
07/11/08 ACID DRINKARD W/ 2000 GALS 15% HCL
07/14/08 FRAC DRINKARD W/ 41K GALS SS-3500 AND 62K LBS 20/40 SAND
07/15/08 PERF TUBB @ 6562-66, 6667-71, 6744-48, 6772-76, 6832-36, 6872-76' 2 JSPF
07/15/08 SET RBP @ 6950'
07/16/08 ACID TUBB W/ 2000 GALS 15% HCL
07/17/08 FRAC TUBB W/ 41K GALS SS-2500 AND 82K LBS 20/40 SAND
07/18/08 PERF BLINEBRY @ 6064-68, 6114-18, 6157-61, 6189-93, 6248-52, 6328-32' 2 JSPF
07/18/08 SET RBP @ 6446'
07/21/08 ACID BLINEBRY W/ 2000 GALS 15% HCL
07/22/08 FRAC BLINEBRY W/ 40K GALS SS-2500 AND 82K LBS 20/40 SAND
07/22/08 RIH W/ TBG TO 6356'
07/23/08 RIH W/ PUMP & RODS
07/24/08 SET 640 PUMPING UNIT. PUMP TESTING BLINEBRY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Sophie Mackay TITLE Engineering Tech DATE 08/19/2008

Type or print name Sophie Mackay
For State Use Only

E-mail address: sophie.mackay@apachecorp.com Telephone No. (918)491-4864

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE SEP 11 2008
Conditions of Approval (if any):

Results of Directional Survey

BLINEBRY ZONE

API number:	30-025-38791		
OGRID:		Operator:	APACHE CORP
		Property:	HESTER 12 # 9

surface	ULSTR:	K	12	T	20S	R	38E
			2440	FSL	2500	FWL	

BH Loc	ULSTR:	K	12	T	20S	R	38E
			2309	FSL	2309	FWL	

BLINEBRY ZONE	MD	N/S	E/W	VD
	6024	-128.16	-186.60	6013.98
TOP PERFS/OH	6064	-128.23	-187.14	6053.98
	6149	-128.37	-188.28	6138.97
	6276	-128.60	-189.74	6265.96
BOT PERFS/OH	6332	-128.80	-190.20	6321.96
	6401	-129.05	-190.77	6390.95

NEXT TO LAST	7155	-130.70	-191.82	7144.93
LAST READING	7287	-130.58	-191.54	7276.93
TD	7346	-130.53	-191.41	7335.93

Surface Location	2440	FS	2500	FW
Projected BHL	2309	FS	2309	FW
Location of				
Top Perfs/OH	2312	FS	2313	FW
Bottom Perfs/OH	2311	FS	2310	FW

SUMMARY of Subsurface Locations

Surface Location	K-12-20S-38E	2440	FS	2500	FW	Vert. Depth
Top Perfs/OH	K-12-20S-38E	2312	FS	2313	FW	6053.98
Bottom Perfs/OH	K-12-20S-38E	2311	FS	2310	FW	6321.96
Projected TD	K-12-20S-38E	2309	FS	2309	FW	7335.93

Results of Directional Survey

TUBB ZONE

API number:	30-025-38791		
OGRID:		Operator:	APACHE CORP
		Property:	HESTER 12 # 9

surface	ULSTR:	K	12	T	20S	R	38E
			2440	FSL	2500	FWL	

BH Loc	ULSTR:	K	12	T	20S	R	38E
			2309	FSL	2309	FWL	

TUBB ZONE	MD	N/S	E/W	VD
	6559	-130.28	-191.34	6548.94
TOP PERFS/OH	6562	-130.32	-191.32	6551.94
	6653	-131.52	-190.86	6642.94
	6778	-132.11	-190.62	6767.93
BOT PERFS/OH	6876	-131.67	-190.97	6865.93
	6904	-131.55	-191.07	6893.93

NEXT TO LAST	7155	-130.70	-191.82	7144.93
LAST READING	7287	-130.58	-191.54	7276.93
TD	7346	-130.53	-191.41	7335.93

Surface Location	2440	FS	2500	FW
Projected BHL	2309	FS	2309	FW
Location of				
Top Perfs/OH	2310	FS	2309	FW
Bottom Perfs/OH	2308	FS	2309	FW

SUMMARY of Subsurface Locations

Surface Location	K-12-20S-38E	2440	FS	2500	FW	Vert. Depth
Top Perfs/OH	K-12-20S-38E	2310	FS	2309	FW	6551.94
Bottom Perfs/OH	K-12-20S-38E	2308	FS	2309	FW	6865.93
Projected TD	K-12-20S-38E	2309	FS	2309	FW	7335.93

Results of Directional Survey

DRINKARD ZONE

API number:	30-025-38791		
OGRID:		Operator:	APACHE CORP
		Property:	HESTER 12 # 9

surface	ULSTR:	K	12	T	20S	R	38E
			2440	FSL		2500	FWL

BH Loc	ULSTR:	K	12	T	20S	R	38E
			2309	FSL		2309	FWL

DRINKARD ZONE	MD	N/S	E/W	VD
	6904	-131.55	-191.07	6893.93
TOP PERFS/OH	6979	-131.23	-191.30	6968.93
	7030	-131.02	-191.46	7019.93
	7030	-131.02	-191.46	7019.93
BOT PERFS/OH	7084	-130.88	-191.62	7073.93
	7155	-130.70	-191.82	7144.93

NEXT TO LAST	7155	-130.70	-191.82	7144.93
LAST READING	7287	-130.58	-191.54	7276.93
TD	7346	-130.53	-191.41	7335.93

Surface Location	2440	FS	2500	FW
Projected BHL	2309	FS	2309	FW
Location of				
Top Perfs/OH	2309	FS	2309	FW
Bottom Perfs/OH	2309	FS	2308	FW

SUMMARY of Subsurface Locations

Surface Location	K-12-20S-38E	2440	FS	2500	FW	Vert. Depth
Top Perfs/OH	K-12-20S-38E	2309	FS	2309	FW	6968.93
Bottom Perfs/OH	K-12-20S-38E	2309	FS	2308	FW	7073.93
Projected TD	K-12-20S-38E	2309	FS	2309	FW	7335.93

Apache Corporation
6120 S. Yale Ste 1500
Tulsa, OK 74136

HESTER "12" #9
Lea County, New Mexico

SUR: K-12-20s-38e, 2440/S & 2500/W
BHL: K-12-20s-38e, 2309/S & 2309/W
API #30-025-38791

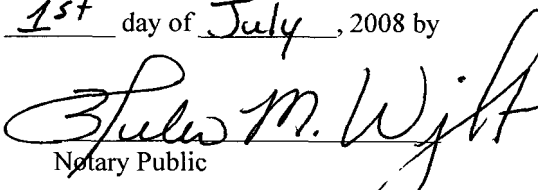
486	4.86	1 1/4	2.19	10.63	10.63
846	3.60	1	1.75	6.30	16.93
1351	5.05	1/2	0.88	4.42	21.35
1567	2.16	1	1.75	3.78	25.13



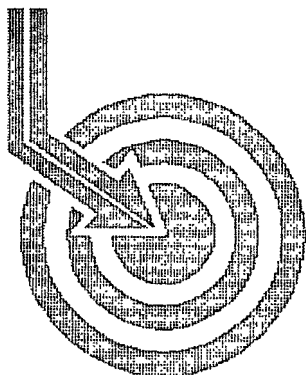


Archie Brown - General Manager

The attached instrument was acknowledged before me on the 1st day of July, 2008 by
Archie Brown - General Manager, CapStar Drilling, L.P.



Notary Public



Scientific Drilling

SUR: K-12-20s-38e, 2440/S & 2500/W
BHL: K-12-20s-38e, 2309/S & 2309/W
API #30-025-38791

APACHE CORPORATION

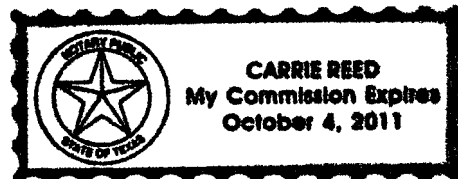
Field: House
Site: Lea County, NM
Well: Hester 12 #9
Wellpath: DH - Job #32D0608442
Survey: 06/14/08-06/23/08

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

.....*Luha*..... Company Representative

Notorized this date 11 of July, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: APACHE CORPORATION	Date: 07/03/2008	Time: 16:43:19	Page: 1
Field: House	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Hester 12 #9	Section (VS) Reference:	Well (0.00N,0.00E,235.10Azi)	
Wellpath: VH Job #32K0608447	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 06/16/08	Start Date: 06/16/2008
KSRG 0'-1510'	
Company: Scientific Drilling Internatio	Engineer: Madrid w/P&M
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.60	265.52	100.00	0.45	-0.04	-0.52	0.60	0.52	265.52
200.00	1.23	293.72	199.99	1.46	0.35	-2.03	0.76	2.06	279.80
300.00	0.99	290.36	299.97	2.51	1.08	-3.82	0.25	3.97	285.82
400.00	0.86	305.34	399.95	3.26	1.82	-5.24	0.27	5.55	289.12
500.00	1.07	306.58	499.94	3.81	2.81	-6.60	0.21	7.18	293.03
600.00	1.23	301.03	599.92	4.54	3.92	-8.27	0.19	9.15	295.34
700.00	0.68	291.80	699.91	5.31	4.69	-9.74	0.57	10.81	295.71
800.00	0.51	319.98	799.90	5.67	5.25	-10.58	0.33	11.81	296.40
900.00	0.70	335.17	899.89	5.61	6.15	-11.12	0.25	12.71	298.93
1000.00	0.72	322.74	999.89	5.52	7.20	-11.76	0.16	13.79	301.48
1100.00	0.54	321.12	1099.88	5.58	8.07	-12.44	0.18	14.82	302.97
1200.00	0.39	318.87	1199.88	5.65	8.69	-12.96	0.15	15.60	303.86
1300.00	0.39	101.21	1299.88	5.45	8.88	-12.85	0.74	15.62	304.66
1400.00	0.34	2.07	1399.88	5.04	9.11	-12.50	0.56	15.47	306.09
1500.00	0.47	69.51	1499.87	4.46	9.55	-12.11	0.46	15.42	308.27
1510.00	0.36	90.25	1509.87	4.40	9.57	-12.04	1.84	15.38	308.48



Scientific Drilling International Survey Report

Company: APACHE CORPORATION	Date: 07/03/2008	Time: 16:50:51	Page: 1
Field: House	Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North		
Site: Lea County, NM	Vertical (TVD) Reference: SITE 0.0		
Well: Hester 12 #9	Section (VS) Reference: Well (0.00N,0.00E,235.10Azi)		
Wellpath: DH - Job #32D0608442	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 06/14/08-06/23/08	Start Date: 06/14/2008
MWD 1693'-7287'	
Company: Scientific Drilling Internatio	Engineer: Hernandez/Ramirez/Smith/Becker
Tool: MWD;MWD	Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1510.00	0.36	90.25	1509.87	4.40	9.57	-12.04	0.00	15.38	308.48
1693.00	0.27	84.53	1692.87	3.55	9.61	-11.03	0.05	14.63	311.04
1881.00	0.37	52.84	1880.87	2.56	10.01	-10.11	0.11	14.23	314.73
2070.00	0.51	3.89	2069.86	1.42	11.22	-9.56	0.20	14.74	319.56
2259.00	1.04	21.07	2258.84	-0.52	13.66	-8.89	0.30	16.30	326.94
2448.00	0.61	342.48	2447.83	-2.25	16.22	-8.58	0.36	18.35	332.13
2638.00	1.08	350.02	2637.80	-3.30	18.95	-9.19	0.25	21.06	334.12
2827.00	0.99	315.37	2826.78	-3.78	21.87	-10.65	0.33	24.32	334.04
2953.00	1.33	262.61	2952.75	-2.30	22.45	-12.86	0.85	25.88	330.19
3048.00	0.89	214.71	3047.74	-0.63	21.70	-14.38	1.04	26.03	326.48
3142.00	0.86	216.04	3141.73	0.72	20.53	-15.21	0.04	25.55	323.48
3237.00	2.47	209.68	3236.68	3.25	18.18	-16.64	1.70	24.64	317.53
3299.00	3.17	214.17	3298.61	6.05	15.60	-18.26	1.18	24.02	310.50
3457.00	4.38	223.02	3456.26	16.03	7.57	-24.83	0.85	25.96	286.96
3505.00	5.31	226.38	3504.09	20.02	4.70	-27.69	2.02	28.09	279.63
3600.00	4.98	232.73	3598.71	28.49	-0.83	-34.16	0.69	34.17	268.61
3695.00	4.59	232.49	3693.38	36.40	-5.64	-40.45	0.41	40.84	262.06
3820.00	5.22	226.55	3817.92	47.02	-12.60	-48.55	0.65	50.16	255.46
3915.00	4.95	229.57	3912.55	55.38	-18.23	-54.81	0.40	57.76	251.60
4009.00	4.88	229.55	4006.20	63.39	-23.45	-60.94	0.07	65.29	248.95
4104.00	5.52	221.53	4100.81	71.86	-29.49	-67.04	1.02	73.24	246.25
4198.00	5.27	218.09	4194.39	80.38	-36.27	-72.70	0.43	81.25	243.48
4293.00	5.23	218.61	4289.00	88.70	-43.09	-78.09	0.07	89.19	241.11
4387.00	5.12	222.70	4382.61	96.91	-49.52	-83.61	0.41	97.18	239.36
4480.00	5.03	223.34	4475.25	104.95	-55.54	-89.22	0.11	105.10	238.10
4574.00	4.96	236.27	4568.89	113.05	-60.79	-95.43	1.20	113.15	237.50
4668.00	4.96	236.60	4662.54	121.18	-65.28	-102.20	0.03	121.28	237.43
4763.00	4.80	238.18	4757.20	129.25	-69.64	-109.01	0.22	129.36	237.43
4857.00	5.43	225.91	4850.83	137.57	-74.81	-115.55	1.34	137.65	237.08
4983.00	5.73	228.23	4976.23	149.70	-83.15	-124.52	0.30	149.73	236.27
5077.00	5.40	228.71	5069.79	158.75	-89.19	-131.34	0.35	158.76	235.82
5170.00	5.46	227.91	5162.37	167.49	-95.04	-137.91	0.10	167.49	235.43
5266.00	5.74	230.61	5257.91	176.81	-101.15	-145.01	0.40	176.81	235.10
5360.00	5.59	230.75	5351.45	186.06	-107.03	-152.19	0.16	186.06	234.88
5454.00	5.12	234.95	5445.04	194.82	-112.34	-159.17	0.65	194.82	234.79
5581.00	4.29	241.14	5571.61	205.21	-117.89	-167.97	0.77	205.21	234.94
5676.00	3.96	240.89	5666.37	212.01	-121.20	-173.95	0.35	212.01	235.13
5773.00	3.60	240.07	5763.16	218.37	-124.35	-179.51	0.38	218.37	235.29
5836.00	3.12	237.84	5826.05	222.06	-126.24	-182.68	0.79	222.06	235.35
5930.00	0.81	252.99	5919.99	225.24	-127.80	-185.48	2.50	225.25	235.43
6024.00	0.62	251.27	6013.98	226.36	-128.16	-186.60	0.20	226.37	235.52
6149.00	0.95	270.50	6138.97	227.86	-128.37	-188.28	0.33	227.87	235.71
6276.00	0.43	239.56	6265.96	229.19	-128.60	-189.74	0.49	229.21	235.87
6401.00	0.61	250.92	6390.95	230.30	-129.05	-190.77	0.17	230.32	235.92
6559.00	0.71	166.30	6548.94	231.46	-130.28	-191.34	0.56	231.48	235.75
6653.00	0.92	153.68	6642.94	231.79	-131.52	-190.86	0.29	231.79	235.43
6778.00	0.34	326.51	6767.93	231.93	-132.11	-190.62	1.01	231.93	235.28
6904.00	0.32	315.96	6893.93	231.97	-131.55	-191.07	0.05	231.98	235.45
7030.00	0.28	331.59	7019.93	231.99	-131.02	-191.46	0.07	232.00	235.62

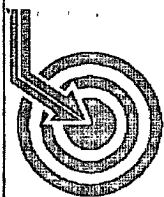


Scientific Drilling International Survey Report

Company: APACHE CORPORATION Date: 07/03/2008 Time: 16:50:51 Page: 2
Field: House Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: Hester 12 #9 Section (VS) Reference: Well (0.00N,0.00E,235.10Azi)
Wellpath: DH - Job #32D0608442 Survey Calculation Method: Minimum Curvature Db: Sybase

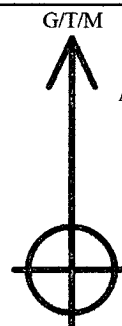
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7155.00	0.20	285.90	7144.93	232.10	-130.70	-191.82	0.16	232.11	235.73
7287.00	0.44	84.02	7276.93	231.80	-130.58	-191.54	0.48	231.81	235.72



Scientific
Drilling

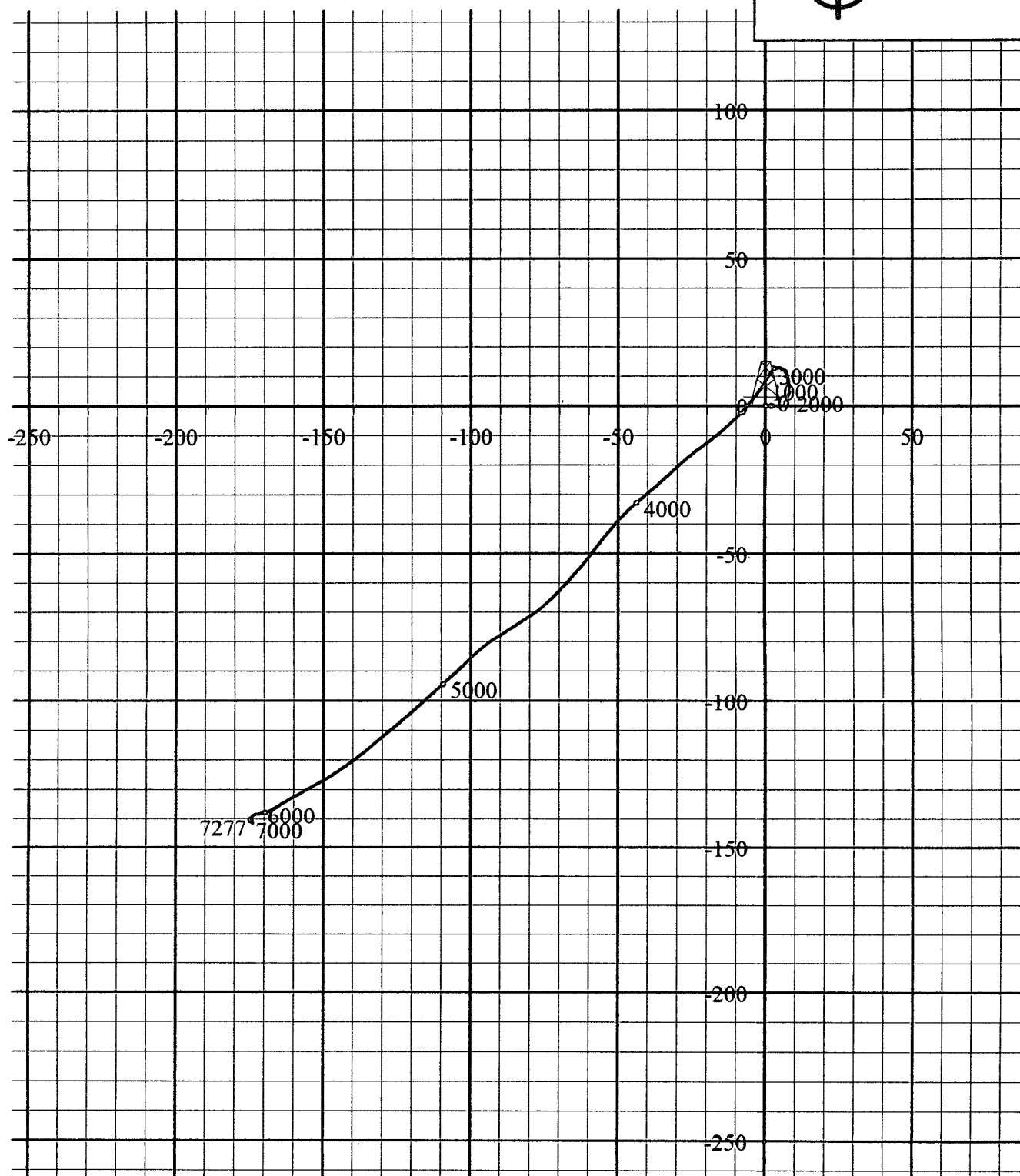
Field: House
Site: Lea County, NM
Well: Hester 12 #9
Wellpath: DH - Job #32D0608442
Survey: 06/14/08-06/23/08



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 07/03/2008
Model: igrf2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]