

30-015-34356



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SEP 30 2005
OCC-AMTESIA

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(915) 686-3600

September 27, 2005

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the MacKenzie 13 Fee #3H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason LaGrega", written over the printed name and title.

Jason LaGrega
Drilling Engineer

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102

Energy, Minerals, and Natural Resources Department

Revised August 15, 2000

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

State Lease - 4 copies

Fee Lease - 3 copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

1220 South St. Francis Dr.

SEP 30 2005

Santa Fe, New Mexico 87505

RECEIVED

☐ AMENDED REPORT

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
		Undesignated wolfcampgas
⁴ Property Code	⁵ Property Name	⁶ Well Number
	MACKENZIE "13" FEE	3H
⁷ OGRID No. 7377	⁸ Operator Name	⁹ Elevation
	EOG RESOURCES, INC.	3581'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	13	16 SOUTH	24 EAST, N.M.P.M.		660'	SOUTH	1980'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	13	16 SOUTH	24 EAST, N.M.P.M.		660'	NORTH	1980'	EAST	EDDY
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ Project Area Producing Area BHL X = 436766 Y = 701542 LAT.: N 32.9284447 LONG.: W 104.5394199 NAD 27 NME ZONE X = 436770 Y = 697542 LAT.: N 32.9174508 LONG.: W 104.5393811	660' 1980' 660' 1980' 3581.7'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Mike Francis</i> Signature Mike Francis Printed Name Agent Title 9/27/2005 Date 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. AUGUST 24, 2005 Date of Survey Signature and Seal of Professional Surveyor <i>V. L. Bezner</i> Certificate Number V. L. BEZNER R.P.S. #7920 JOB #105807 / 101 SE / J.C.P.
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Permit Information:

Well Name: MacKenzie 13 Fee #3H

Location:

SL 660' FSL & 1980' FEL, Section 13, T-16-S, R-24-E, Eddy Co., N.M.

BHL 660' FNL & 1980' FEL, Section 13, T-16-S, R-24-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,526'	7-7/8"	4 1/2"	11.6/ 13.5 #	P-110	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	150	Lead: Premium Plus + 2% CaCl ₂ + 3% Econolite + 1/4 pps Flocele
	175	Tail: Premium Plus + 2% CaCl ₂ + 1/4 pps Flocele
8,526'	450	Lead: Interfill C + 1/4 pps Flocele
	400	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' – 4,400'	Cut Brine	8.8-9.2	28-34	N/c
4,400' – 5,200'	Cut Brine	8.8-9.2	28-34	10-15
4,300' – 8,526'	Polymer (Lateral)	9.0-9.4	40-45	10-25

EOG Resources Inc

Planning Report

Company: EOG Resources
Field: Thames
Site: MacKenzie 13 Fee #3H
Well: MacKenzie 13 Fee #3H
Wellpath: Lateral

Date: 9/27/2005 **Time:** 16:07:29 **Page:**
Co-ordinate(NE) Reference: Site: MacKenzie 13 Fee #3H, Grid North
Vertical (TVD) Reference: SITE 3599.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Plan: Plan #1

Page: 1

Field: Thames

Map System:US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2000

Site: MacKenzie 13 Fee #3H

Site Position:	Northing:	697542.00 ft	Latitude:	32 55 2.821 N
From: Map	Easting:	436770.00 ft	Longitude:	104 32 21.777 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3581.00 ft		Grid Convergence:	-0.11 deg

Well: MacKenzie 13 Fee #3H

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	697542.00 ft	Latitude:	32	55	2.821 N
	+E/-W	0.00 ft	Easting :	436770.00 ft	Longitude:	104	32	21.777 W
Position Uncertainty:		0.00 ft						

Wellpath: Lateral

Drilled From:	Surface
Tie-on Depth:	0.00 ft
Above System Datum:	Mean Sea Level
Declination:	9.02 deg
Mag Dip Angle:	60.89 deg
+E/-W	Direction
ft	deg

Current Datum:	SITE	Height 3599.00 ft
Magnetic Data:	9/27/2005	
Field Strength:	49693 nT	
Vertical Section:	Depth From (TVD)	+N/-S
	ft	ft
	0.00	0.00

Plan: Plan #1

Date Composed: 9/27/2005
Version: 1
Tied-to: From Surface

Principal: Yes

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4308.00	0.00	0.00	4308.00	0.00	0.00	0.00	0.00	0.00	0.00	
4908.04	90.00	359.94	4690.00	382.00	-0.40	15.00	15.00	0.00	359.94	
4934.53	90.79	359.94	4689.82	408.49	-0.43	3.00	3.00	0.01	0.22	
8526.21	90.79	359.94	4640.00	3999.81	-4.00	0.00	0.00	0.00	0.00	
8526.39	90.79	359.94	4640.00	4000.00	-4.00	3.00	-2.52	-1.62	-147.27	BHL

Survey

[illegible]

EOG Resources Inc

Planning Report

Company: EOG Resources
Field: Thames
Site: MacKenzie 13 Fee #3H
Well: MacKenzie 13 Fee #3H
Wellpath: Lateral

Date: 9/27/2005
Co-ordinate(NE) Reference: Site: MacKenzie 13 Fee #3H, Grid North
Vertical (TVD) Reference: SITE 3599.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Plan: Plan #1

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4308.00	0.00	0.00	4308.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4400.00	13.80	359.94	4399.11	11.03	-0.01	11.03	15.00	15.00	0.00	Keeper Cone
4500.00	28.80	359.94	4492.02	47.24	-0.05	47.24	15.00	15.00	0.00	Keeper Cone
4600.00	43.80	359.94	4572.38	106.27	-0.11	106.27	15.00	15.00	0.00	Keeper Cone
4700.00	58.80	359.94	4634.73	184.09	-0.19	184.09	15.00	15.00	0.00	Keeper Cone
4800.00	73.79	359.94	4674.82	275.39	-0.29	275.39	15.00	15.00	0.00	Keeper Cone
4900.00	88.79	359.94	4689.92	373.96	-0.39	373.96	15.00	15.00	0.00	Keeper Cone
4908.04	90.00	359.94	4690.00	382.00	-0.40	382.00	15.01	15.01	0.00	Keeper Cone
4934.53	90.79	359.94	4689.82	408.49	-0.43	408.49	2.98	2.98	0.00	Keeper Cone
5000.00	90.79	359.94	4688.91	473.95	-0.49	473.95	0.01	0.01	0.00	Keeper Cone
5100.00	90.79	359.94	4687.52	573.94	-0.59	573.94	0.00	0.00	0.00	Keeper Cone
5200.00	90.79	359.94	4686.13	673.93	-0.69	673.93	0.00	0.00	0.00	Keeper Cone
5300.00	90.79	359.94	4684.75	773.92	-0.79	773.92	0.00	0.00	0.00	Keeper Cone
5400.00	90.79	359.94	4683.36	873.91	-0.89	873.91	0.00	0.00	0.00	Keeper Cone
5500.00	90.79	359.94	4681.97	973.90	-0.99	973.90	0.00	0.00	0.00	Keeper Cone
5600.00	90.79	359.94	4680.59	1073.89	-1.09	1073.89	0.00	0.00	0.00	Keeper Cone
5700.00	90.79	359.94	4679.20	1173.88	-1.19	1173.88	0.00	0.00	0.00	Keeper Cone
5800.00	90.79	359.94	4677.81	1273.87	-1.29	1273.87	0.00	0.00	0.00	Keeper Cone
5900.00	90.79	359.94	4676.43	1373.86	-1.39	1373.86	0.00	0.00	0.00	Keeper Cone
6000.00	90.79	359.94	4675.04	1473.85	-1.49	1473.85	0.00	0.00	0.00	Keeper Cone
6100.00	90.79	359.94	4673.65	1573.84	-1.59	1573.84	0.00	0.00	0.00	Keeper Cone
6200.00	90.79	359.94	4672.27	1673.83	-1.69	1673.83	0.00	0.00	0.00	Keeper Cone
6300.00	90.79	359.94	4670.88	1773.82	-1.79	1773.82	0.00	0.00	0.00	Keeper Cone
6400.00	90.79	359.94	4669.49	1873.81	-1.88	1873.81	0.00	0.00	0.00	Keeper Cone
6500.00	90.79	359.94	4668.10	1973.80	-1.98	1973.80	0.00	0.00	0.00	Keeper Cone

EOG Resources Inc

Planning Report

Company: EOG Resources
Field: Thames
Site: MacKenzie 13 Fee #3H
Well: MacKenzie 13 Fee #3H
Wellpath: Lateral

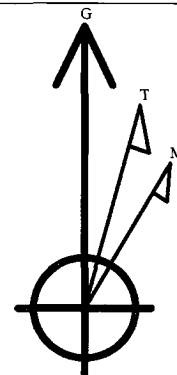
Date: 9/27/2005
Co-ordinate(NE) Reference: Site: MacKenzie 13 Fee #3H, Grid North
Vertical (TVD) Reference: SITE 3599.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Plan: Plan #1

Page: 3

Survey

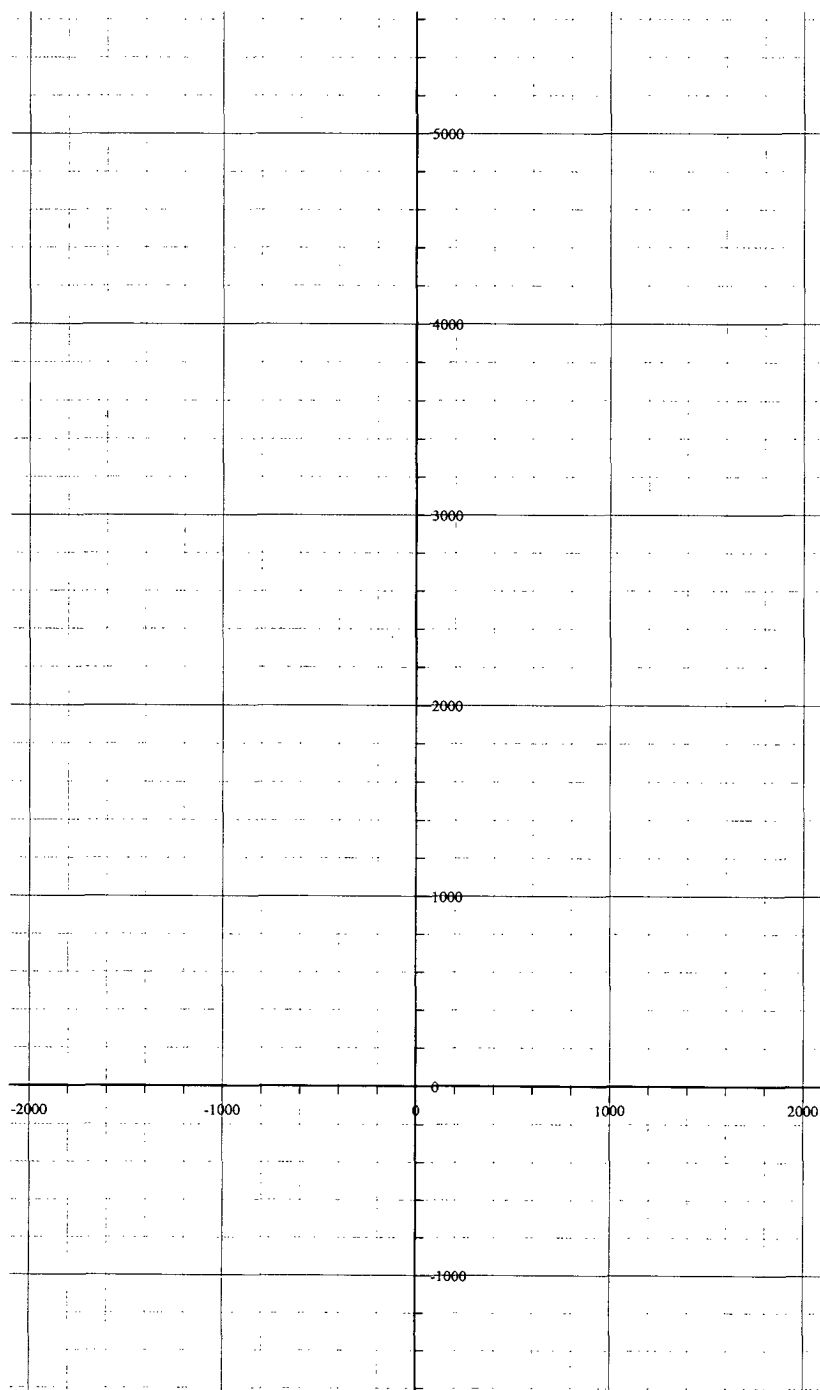
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6600.00	90.79	359.94	4666.72	2073.79	-2.08	2073.79	0.00	0.00	0.00	Keeper Cone
6700.00	90.79	359.94	4665.33	2173.78	-2.18	2173.78	0.00	0.00	0.00	Keeper Cone
6800.00	90.79	359.94	4663.94	2273.77	-2.28	2273.77	0.00	0.00	0.00	Keeper Cone
6900.00	90.79	359.94	4662.56	2373.76	-2.38	2373.76	0.00	0.00	0.00	Keeper Cone
7000.00	90.79	359.94	4661.17	2473.76	-2.48	2473.76	0.00	0.00	0.00	Keeper Cone
7100.00	90.79	359.94	4659.78	2573.75	-2.58	2573.75	0.00	0.00	0.00	Keeper Cone
7200.00	90.79	359.94	4658.40	2673.74	-2.68	2673.74	0.00	0.00	0.00	Keeper Cone
7300.00	90.79	359.94	4657.01	2773.73	-2.78	2773.73	0.00	0.00	0.00	Keeper Cone
7400.00	90.79	359.94	4655.62	2873.72	-2.88	2873.72	0.00	0.00	0.00	Keeper Cone
7500.00	90.79	359.94	4654.24	2973.71	-2.98	2973.71	0.00	0.00	0.00	Keeper Cone
7600.00	90.79	359.94	4652.85	3073.70	-3.08	3073.70	0.00	0.00	0.00	Keeper Cone
7700.00	90.79	359.94	4651.46	3173.69	-3.18	3173.69	0.00	0.00	0.00	Keeper Cone
7800.00	90.79	359.94	4650.07	3273.68	-3.28	3273.68	0.00	0.00	0.00	Keeper Cone
7900.00	90.79	359.94	4648.69	3373.67	-3.38	3373.67	0.00	0.00	0.00	Keeper Cone
8000.00	90.79	359.94	4647.30	3473.66	-3.48	3473.66	0.00	0.00	0.00	Keeper Cone
8100.00	90.79	359.94	4645.91	3573.65	-3.58	3573.65	0.00	0.00	0.00	Keeper Cone
8200.00	90.79	359.94	4644.53	3673.64	-3.68	3673.64	0.00	0.00	0.00	Keeper Cone
8300.00	90.79	359.94	4643.14	3773.63	-3.77	3773.63	0.00	0.00	0.00	Keeper Cone
8400.00	90.79	359.94	4641.75	3873.62	-3.87	3873.62	0.00	0.00	0.00	Keeper Cone
8500.00	90.79	359.94	4640.37	3973.61	-3.97	3973.61	0.00	0.00	0.00	Keeper Cone
8526.39	90.79	359.94	4640.00	4000.00	-4.00	4000.00	0.02	-0.02	-0.01	Keeper Cone

Field: Thames
 Site: MacKenzie 13 Fee #3H
 Well: MacKenzie 13 Fee #3H
 Wellpath: Lateral
 Plan: Plan #1

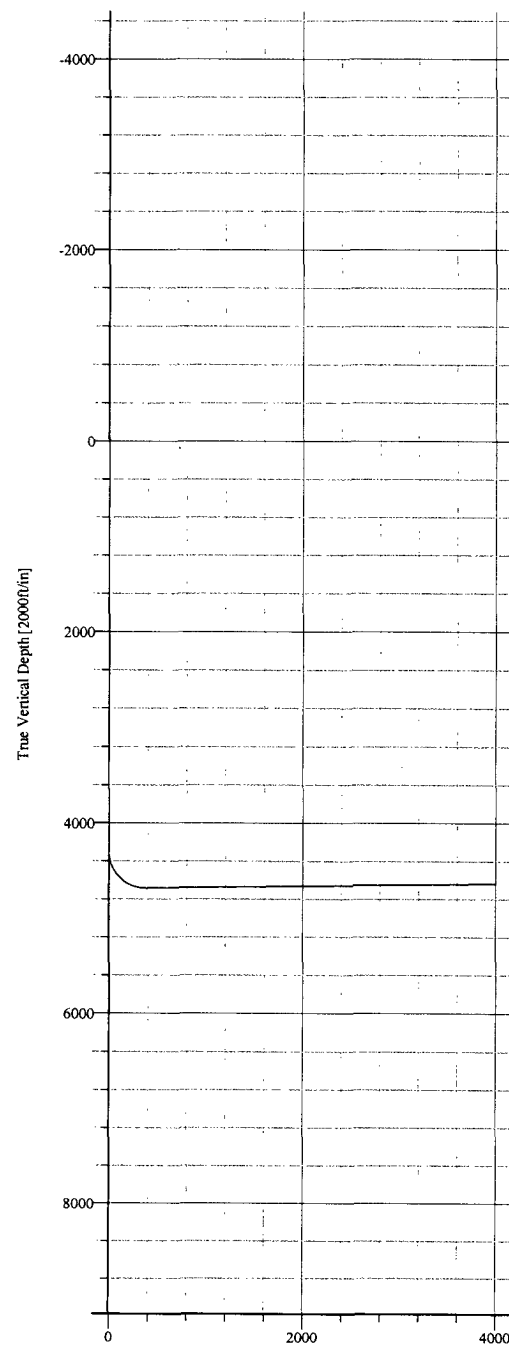


Azimuths to Grid North
 True North: 0.11°
 Magnetic North: 9.13°

Magnetic Field
 Strength: 49693nT
 Dip Angle: 60.89°
 Date: 9/27/2005
 Model: igr2000



South(-)/North(+)[1000ft/in]



Vertical Section at 0.00° [2000ft/in]

West(-)/East(+)[1000ft/in]