

State of New Mexico
Energy, Minerals and Natural Resources

State of New Mexico
Energy, Minerals and Natural Resources

Form C-105
Revised June 10, 2003

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

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

WELL API NO.
30-015-33596
5. Indicate Type Of Lease
STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
B-11593

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____
b. Type of Completion:
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER _____
2. Name of Operator
OXY USA WTP Limited Partnership 192463
3. Address of Operator
P.O. Box 50250 Midland, TX 79710-0250
4. Well Location
Unit Letter E : 1750 Feet From The north Line and 1030 Feet From The west Line
Section 35 Township 17S Range 28E NMPM Eddy County
10. Date Spudded
11/6/04
11. Date T.D. Reached
12/25/04
12. Date Compl. (Ready to Prod.)
2/8/05
13. Elevations (DF & RKB, RT, GR, etc.)
3682'
14. Elev. Casinghead
15. Total Depth
10750'M 10736'V
16. Plug Back T.D.
10350'M 10336'V
17. If Multiple Compl. How Many Zones?
18. Intervals Drilled By
Rotary Tools
Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name
10158-10176' Atoka
20. Was Directional Survey Made
Yes
21. Type Electric and Other Logs Run
DLL/MLL/CZDL/DSL/CNL/GRL
22. Was Well Cored
No

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APR 18 2005

Undsg. Empire Atoka

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	428'	17-1/2"	425sx-Surf-Circ	N/A
9-5/8"	36#	2700'	12-1/4"	900sx-Surf-Circ	N/A
5-1/2"	17#	10750'	8-3/4"	860sx-TOC-5140'-TS	N/A

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	10086'	10075'

26. Perforation record (interval, size, and number) 10457-10461' Total 16holes 10158-10176' Total 38holes				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 10457-10461' 10457-10461' AMOUNT AND KIND MATERIAL USED 1500g 7.5% HCl acid 13524g CO2 foam frac w/23000# sand			
---	--	--	--	---	--	--	--

PRODUCTION							
Date First Production 2/3/05		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Prod	
Date of Test 3/3/05	Hours Tested 24	Choke Size 14/64	Prod'n For Test Period	Oil - Bbl. 42	Gas - MCF 1082	Water - Bbl. 0	Gas - Oil Ratio
Flow Tubing Press. 1187	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 42	Gas - MCF 1082	Water - Bbl. 0	Oil Gravity - API -(Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold
Test Witnessed By
G. Henrich

30. List Attachments
C-103, C-104, Directional Survey, Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief
Signature David Stewart Printed Name David Stewart Title Sr. Reg Analyst Date 4/14/05
E-mail address david.stewart@oxy.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northeastern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 9606'	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 9902'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T. Morrow 10184'	T. Wingate	T.
T. Wolfcamp 7212'		T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
 No. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	720	720	Halite				
720	1264	544	Anhyd				
1264	1662	398	Dolom, Anhyd, Shale, Sndst				
1662	2168	506	Dolom, Sndst, Anhyd				
2168	3832	1664	Dolom, Shale				
3832	5830	1998	Dolom, Shale, Anhyd, Sndst				
5830	7212	1382	Dolom, Shale				
7212	8416	1204	Lmest, Shale, Chert				
8416	9606	1190	Shale, Lmest				
9606	9902	296	Lmest, Chert, Shale				
9902	10184	282	Lmest, Shale, Sndst				
10184	10539	355	Lmest, Sndst, Shale, Chert				
10539	10709	170	Shale				

DISTRICT I

1625 N. FRANCE DR., ROSA, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015- 33596	Pool Code 76400	Pool Name Undesignated Empire Morrow, South
Property Code 34261	Property Name OXY GARTER STATE	Well Number 1
OGRID No. 192463	Operator Name OXY U.S.A. W.T.P., L.P.	Elevation 3682'

Surface Location

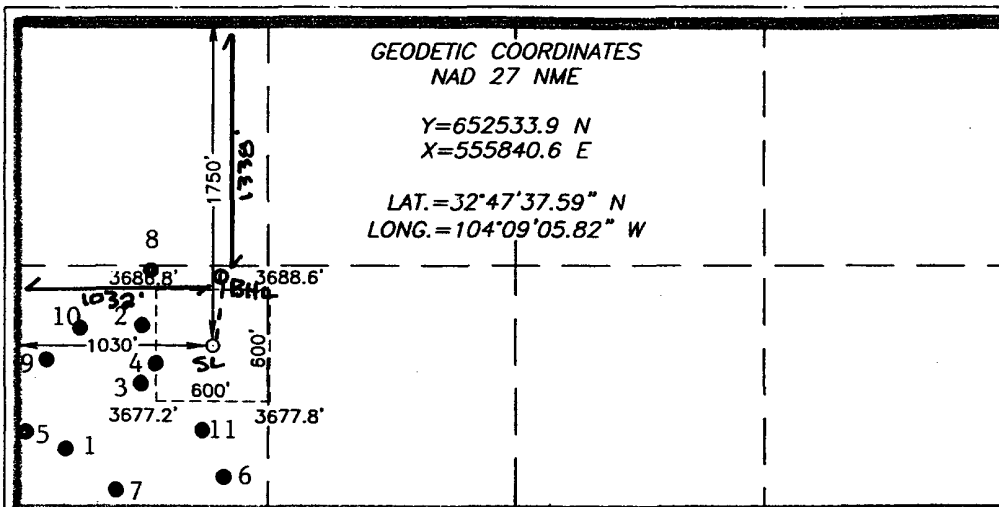
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	35	17-S	28-E		1750'	NORTH	1030'	WEST	EDDY

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
E	35	17S	28E		1338	North	1032	west	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	N		

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



OPERATOR CERTIFICATION

I hereby certify the the information
contained herein is true and complete to the
best of my knowledge and belief.

Signature

David Stewart

Printed Name

Sr. Regulatory Analyst

Title

Date

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.

JULY 8, 2004

Date Surveyed

JR

Signature & Seal of
Professional Surveyor

Certificate No. GARY EIRSON

12841

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APR 18 2005

OCD:ARTESIA

1. 3001501729 - Pre-Ongard Well - 2310N 250W
2. 3001501730 - Pre-Ongard Well - 1650N 660W
3. 3001501745 - Melrose Oper. Co. - Artesia Ut. #12 - 1980N 660W - Artesia QN-GB-SA
4. 3001501752 - BP America Prod. Co. - Empire Abo Ut. #37C - 1850N 710W - Empire Abo
5. 3001521806 - BP America Prod. Co. - Empire Abo Ut. #371W - 2220N 25W - Empire Abo
6. 3001522137 - BP America Prod. Co. - Empire Abo Ut. #372 - 2490N 1100W - Empire Abo
7. 3001522768 - BP America Prod. Co. - Empire Abo Ut. #374 - 2525N 520W - Empire Abo
8. 3001522786 - BP America Prod. Co. - Empire Abo Ut. #376 - 1335N 700W - Empire Abo
9. 3001522805 - BP America Prod. Co. - Empire Abo Ut. #373 - 1820 N 150W - Empire Abo
10. 3001529862 - Melrose Oper. Co. - Artesia Ut. #71 - 1650N 330W - Artesia QN-GB-SA
11. 3001529863 - Melrose Oper. Co. - Artesia Ut. #72 - 2210N 990W - Artesia QN-GB-SA

OPERATOR: OXY USA
WELL/LEASE: OXY GARTER ST #1
COUNTY: EDDY, NM

508-0080

STATE OF NEW MEXICO
DEVIATION REPORT

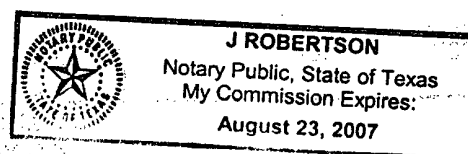
146	0.50	7,001	3.53	8,423	4.35
300	0.75	7,033	3.72	8,455	5.55
396	1.00	7,065	3.80	8,467	6.07
915	1.00	7,096	3.55	8,518	6.32
1,389	0.50	7,127	3.28	8,550	6.22
1,867	1.00	7,158	3.20	8,581	6.22
2,340	1.00	7,190	3.25	8,613	5.90
2,700	2.50	7,222	3.47	8,645	5.07
2,891	1.25	7,237	3.50	8,676	4.45
3,177	1.25	7,254	3.45	8,708	3.97
3,653	1.25	7,285	3.58	8,739	3.60
4,131	1.75	7,317	3.65	8,771	3.53
4,384	1.75	7,348	3.90	8,802	3.47
4,858	2.50	7,380	3.72	8,834	3.73
5,111	2.75	7,411	3.65	8,866	4.07
5,364	3.25	7,443	3.38	8,897	4.18
5,621	4.25	7,506	3.31	8,929	4.45
5,716	6.00	7,538	3.12	8,960	4.28
5,861	5.75	7,569	3.40	8,992	4.13
5,987	6.50	7,601	3.60	9,055	3.40
6,113	7.00	7,632	3.80	9,086	3.30
6,208	8.00	7,664	3.99	9,118	3.19
6,293	7.04	7,696	4.02	9,181	3.17
6,325	6.83	7,727	3.95	9,213	3.22
6,356	6.32	7,759	3.60	9,275	2.88
6,388	5.78	7,791	3.76	9,338	3.03
6,419	5.01	7,823	3.44	9,400	2.86
6,451	4.74	7,854	3.15	9,462	2.50
6,482	3.86	7,886	3.38	9,554	2.30
6,514	3.51	7,918	3.28	9,648	1.95
6,546	3.71	7,949	2.75	9,740	1.77
6,577	3.56	7,981	2.72	9,804	1.45
6,608	3.42	8,013	2.90	9,897	1.24
6,639	3.59	8,045	3.15	9,988	1.03
6,654	3.63	8,076	3.03	10,081	0.93
6,685	3.53	8,108	3.24	10,175	1.26
6,717	3.63	8,139	3.42	10,268	1.62
6,748	3.72	8,171	3.26	10,362	1.85
6,780	3.90	8,203	3.15	10,750	1.75
6,812	3.87	8,234	3.00		
6,843	3.87	8,265	2.88		
6,875	3.45	8,297	2.55		
6,907	3.33	8,329	2.63		
6,938	3.38	8,360	3.08		
6,970	3.47	8,392	3.60		

By: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on December 13th, 2004, by
Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.


Notary Public for Midland County, Texas
My Commission Expires: 8/23/2007





Oxy Permian

Eddy Co., New Mexico

Oxy Garter #1

Oxy Garter #1

Lateral #1

Survey: MWD Survey #1

Standard Survey Report

18 December, 2004

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APR 18 2005

ODD ARTESIA





Black Viper Energy Services

Survey Report



Database: EDM 2003.5 Single User Db
Company: Oxy Permian
Project: Eddy Co., New Mexico
Site: Oxy Garter #1
Well: Oxy Garter #1
Wellbore: Lateral #1
Design: Lateral #1

Local Co-ordinate Reference: Well Oxy Garter #1
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project Eddy Co., New Mexico

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Ground Level

Site Oxy Garter #1

Site Position:
From: Lat/Long
Position Uncertainty: ft
Northing: 652448.06 ft
Easting: 556860.98 ft
Slot Radius: in
Latitude: 32° 47' 36.706" N
Longitude: 104° 08' 53.881" W
Grid Convergence: 0.10 °

Well Oxy Garter #1

Well Position
+N/-S 0.00 ft
+E/-W 0.00 ft
Position Uncertainty ft
Northing: 652448.06 ft
Easting: 556860.98 ft
Wellhead Elevation: ft
Latitude: 32° 47' 36.706" N
Longitude: 104° 08' 53.881" W
Ground Level: 0.00 ft

Wellbore Lateral #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	11/23/2004	8.89	60.86	49733

Design Lateral #1

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 6262.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	3.01

Survey Program Date 12/18/2004

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
6293.00	10500.00	MWD Survey #1 (Lateral #1)	MWD	Standard MWD

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6262.00	7.39	2.41	6255.66	189.01	-8.63	188.30	0.00	0.00	0.00
6293.00	7.04	3.15	6286.41	192.90	-8.44	192.19	1.17	-1.13	2.39
First MWD Survey									
6325.00	6.83	7.30	6318.18	196.74	-8.09	196.05	1.70	-0.66	12.97
6356.00	6.32	8.21	6348.98	200.26	-7.61	199.58	1.68	-1.65	2.94
6388.00	5.78	12.59	6380.80	203.58	-7.01	202.93	2.22	-1.69	13.69
6419.00	5.01	11.47	6411.66	206.43	-6.40	205.81	2.51	-2.48	-3.61
6451.00	4.74	13.98	6443.55	209.08	-5.80	208.49	1.08	-0.84	7.84
6482.00	3.86	12.36	6474.46	211.34	-5.27	210.77	2.87	-2.84	-5.23
6514.00	3.51	12.11	6506.39	213.35	-4.83	212.80	1.09	-1.09	-0.78
6546.00	3.71	12.26	6538.33	215.32	-4.41	214.79	0.63	0.62	0.47



Black Viper Energy Services

Survey Report



Database: EDM 2003.5 Single User Db
Company: Oxy Permian
Project: Eddy Co., New Mexico
Site: Oxy Garter #1
Well: Oxy Garter #1
Wellbore: Lateral #1
Design: Lateral #1

Local Co-ordinate Reference: Well Oxy Garter #1
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6577.00	3.56	9.40	6569.27	217.25	-4.04	216.74	0.76	-0.48	-9.23
6608.00	3.42	5.93	6600.21	219.12	-3.79	218.62	0.82	-0.45	-11.19
6639.00	3.59	359.55	6631.15	221.01	-3.70	220.51	1.37	0.55	-20.58
6654.00	3.63	359.27	6646.12	221.96	-3.71	221.45	0.29	0.27	-1.87
6685.00	3.53	2.98	6677.06	223.89	-3.67	223.39	0.81	-0.32	11.97
6717.00	3.63	5.90	6709.00	225.88	-3.52	225.38	0.65	0.31	9.12
6748.00	3.72	6.50	6739.93	227.86	-3.30	227.37	0.32	0.29	1.94
6780.00	3.90	10.00	6771.86	229.96	-2.99	229.48	0.92	0.56	10.94
6812.00	3.87	10.88	6803.79	232.09	-2.60	231.63	0.21	-0.09	2.75
6843.00	3.87	12.10	6834.72	234.14	-2.18	233.70	0.27	0.00	3.94
6875.00	3.45	9.80	6866.65	236.15	-1.79	235.73	1.39	-1.31	-7.19
6907.00	3.33	9.48	6898.60	238.01	-1.48	237.61	0.38	-0.37	-1.00
6938.00	3.38	7.28	6929.54	239.81	-1.21	239.41	0.45	0.16	-7.10
6970.00	3.47	7.73	6961.49	241.70	-0.96	241.32	0.29	0.28	1.41
7001.00	3.53	10.83	6992.43	243.57	-0.66	243.20	0.64	0.19	10.00
7033.00	3.72	11.98	7024.37	245.55	-0.26	245.20	0.64	0.59	3.59
7065.00	3.80	12.38	7056.30	247.60	0.19	247.27	0.26	0.25	1.25
7096.00	3.55	9.08	7087.23	249.55	0.56	249.24	1.06	-0.81	-10.65
7127.00	3.28	6.65	7118.18	251.38	0.81	251.08	0.99	-0.87	-7.84
7158.00	3.20	8.25	7149.13	253.12	1.04	252.82	0.39	-0.26	5.16
7190.00	3.25	7.10	7181.08	254.90	1.28	254.62	0.26	0.16	-3.59
7222.00	3.47	9.73	7213.02	256.76	1.55	256.49	0.84	0.69	8.22
7254.00	3.45	12.98	7244.96	258.65	1.93	258.40	0.62	-0.06	10.16
7285.00	3.58	14.13	7275.91	260.50	2.38	260.26	0.48	0.42	3.71
7317.00	3.65	15.10	7307.84	262.45	2.89	262.24	0.29	0.22	3.03
7348.00	3.90	15.90	7338.78	264.42	3.43	264.23	0.82	0.81	2.58
7380.00	3.72	16.03	7370.70	266.46	4.02	266.31	0.56	-0.56	0.41
7411.00	3.65	14.40	7401.64	268.38	4.54	268.25	0.41	-0.23	-5.26
7443.00	3.38	9.78	7433.58	270.30	4.96	270.19	1.22	-0.84	-14.44
7475.00	3.40	358.70	7465.52	272.18	5.09	272.07	2.05	0.06	-34.62
7506.00	3.31	359.44	7496.47	273.99	5.07	273.88	0.32	-0.29	2.39
7538.00	3.12	352.67	7528.42	275.78	4.95	275.66	1.33	-0.59	-21.16
7569.00	3.40	359.87	7559.37	277.54	4.84	277.41	1.60	0.90	23.23
7601.00	3.60	355.38	7591.31	279.49	4.75	279.35	1.06	0.62	-14.03
7632.00	3.80	358.80	7622.25	281.48	4.65	281.34	0.96	0.65	11.03
7664.00	3.99	7.82	7654.17	283.65	4.78	283.51	2.00	0.59	28.19
7696.00	4.02	10.99	7686.10	285.85	5.15	285.73	0.70	0.09	9.91
7727.00	3.95	7.20	7717.02	287.98	5.49	287.87	0.88	-0.23	-12.23
7759.00	3.60	11.93	7748.95	290.05	5.83	289.96	1.46	-1.09	14.78
7791.00	3.76	10.18	7780.89	292.07	6.23	291.99	0.61	0.50	-5.47
7823.00	3.44	11.80	7812.82	294.04	6.61	293.98	1.05	-1.00	5.06
7854.00	3.15	6.98	7843.77	295.80	6.90	295.75	1.29	-0.94	-15.55
7886.00	3.38	9.83	7875.72	297.60	7.17	297.57	0.88	0.72	8.91
7918.00	3.28	8.03	7907.66	299.44	7.46	299.41	0.45	-0.31	-5.62
7949.00	3.05	7.55	7938.62	301.13	7.69	301.12	0.75	-0.74	-1.55
7981.00	2.72	3.90	7970.58	302.73	7.85	302.73	1.18	-1.03	-11.41
8013.00	2.90	3.55	8002.54	304.30	7.96	304.30	0.57	0.56	-1.09
8045.00	3.15	13.10	8034.49	305.96	8.21	305.97	1.76	0.78	29.84
8076.00	3.03	11.15	8065.45	307.60	8.56	307.62	0.51	-0.39	-6.29
8108.00	3.15	18.17	8097.40	309.26	9.00	309.31	1.24	0.37	21.94
8139.00	3.42	14.38	8128.35	310.97	9.49	311.03	1.12	0.87	-12.23
8171.00	3.26	11.96	8160.30	312.78	9.92	312.87	0.67	-0.50	-7.56
8203.00	3.15	7.05	8192.25	314.54	10.21	314.65	0.92	-0.34	-15.34
8234.00	3.00	1.83	8223.20	316.20	10.34	316.31	1.02	-0.48	-16.84



Black Viper Energy Services

Survey Report



Database: EDM 2003.5 Single User Db
 Company: Oxy Permian
 Project: Eddy Co., New Mexico
 Site: Oxy Garter #1
 Well: Oxy Garter #1
 Wellbore: Lateral #1
 Design: Lateral #1

Local Co-ordinate Reference: Well Oxy Garter #1
 TVD Reference: WELL @ 0.00ft (Original Well Elev)
 MD Reference: WELL @ 0.00ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8265.00	2.88	358.73	8254.16	317.79	10.35	317.89	0.64	-0.39	-10.00
8297.00	2.55	353.73	8286.13	319.30	10.26	319.40	1.27	-1.03	-15.62
8328.00	2.63	347.23	8317.09	320.68	10.02	320.76	0.98	0.26	-20.97
8360.00	3.05	338.43	8349.06	322.19	9.55	322.24	1.89	1.31	-27.50
8392.00	3.60	340.70	8381.00	323.93	8.90	323.95	1.77	1.72	7.09
8423.00	4.35	349.65	8411.93	326.00	8.37	325.99	3.13	2.42	28.87
8455.00	5.55	358.00	8443.81	328.74	8.10	328.71	4.36	3.75	26.09
8487.00	6.07	370.00	8475.64	331.98	8.15	331.95	2.43	1.62	17.81
8518.00	6.32	10.63	8506.46	335.29	8.57	335.28	2.54	0.81	22.35
8550.00	6.22	15.90	8538.27	338.69	9.37	338.71	1.82	-0.31	16.47
8581.00	6.22	23.48	8569.09	341.84	10.50	341.92	2.65	0.00	24.45
8613.00	5.90	29.48	8600.91	344.87	12.00	345.02	2.22	-1.00	18.75
8645.00	5.07	37.25	8632.76	347.42	13.67	347.66	3.47	-2.59	24.28
8676.00	4.45	40.78	8663.66	349.42	15.28	349.74	2.21	-2.00	11.39
8708.00	3.98	40.18	8695.57	351.21	16.81	351.61	1.48	-1.47	-1.87
8739.00	3.60	30.38	8726.50	352.87	18.00	353.33	2.42	-1.23	-31.61
8771.00	3.53	19.03	8758.44	354.67	18.83	355.17	2.21	-0.22	-35.47
8802.00	3.47	10.38	8789.38	356.50	19.31	357.02	1.71	-0.19	-27.90
8834.00	3.73	5.85	8821.32	358.49	19.59	359.02	1.20	0.81	-14.16
8866.00	4.07	5.33	8853.25	360.65	19.80	361.19	1.07	1.06	-1.62
8929.00	4.45	4.35	8916.07	365.31	20.19	365.87	0.61	0.60	-1.56
8960.00	4.28	2.28	8946.98	367.67	20.33	368.23	0.75	-0.55	-6.68
8992.00	4.13	357.85	8978.90	370.01	20.33	370.57	1.12	-0.47	-13.84
9055.00	3.40	1.83	9041.76	374.15	20.31	374.70	1.23	-1.16	6.32
9086.00	3.30	2.23	9072.71	375.96	20.37	376.51	0.33	-0.32	1.29
9118.00	3.19	356.99	9104.66	377.77	20.36	378.32	0.99	-0.34	-16.37
9181.00	3.17	356.90	9167.56	381.26	20.17	381.79	0.03	-0.03	-0.14
9213.00	3.22	355.93	9199.51	383.04	20.06	383.56	0.23	0.16	-3.03
9275.00	2.88	354.30	9261.42	386.32	19.78	386.83	0.57	-0.55	-2.63
9338.00	3.03	356.83	9324.34	389.56	19.54	390.05	0.32	0.24	4.02
9400.00	2.86	357.22	9386.26	392.74	19.37	393.22	0.28	-0.27	0.63
9462.00	2.50	348.75	9448.19	395.61	19.03	396.07	0.86	-0.58	-13.66
9554.00	2.30	344.80	9540.11	399.36	18.16	399.77	0.28	-0.22	-4.29
9648.00	1.95	338.23	9634.04	402.67	17.07	403.01	0.45	-0.37	-6.99
9740.00	1.77	352.65	9725.99	405.53	16.31	405.83	0.54	-0.20	15.67
9804.00	1.45	345.92	9789.97	407.30	15.98	407.57	0.58	-0.50	-10.52
9897.00	1.24	348.67	9882.94	409.43	15.50	409.67	0.24	-0.23	2.96
9988.00	1.03	330.16	9973.93	411.10	14.90	411.32	0.46	-0.23	-20.34
10081.00	0.93	292.25	10066.91	412.11	13.78	412.27	0.69	-0.11	-40.76
10175.00	1.26	274.24	10160.90	412.48	12.05	412.54	0.50	0.35	-19.16
10268.00	1.62	269.59	10253.87	412.54	9.71	412.48	0.41	0.39	-5.00
10362.00	1.85	265.34	10347.82	412.41	6.87	412.20	0.28	0.24	-4.52
10450.00	2.03	269.12	10435.77	412.27	3.90	411.91	0.25	0.20	4.30
Last MWD Survey									
10500.00	2.21	272.90	10485.74	412.31	2.05	411.84	0.46	0.36	7.56
Proj to Bit - TD									



Black Viper Energy Services
Survey Report



Database: EDM 2003.5 Single User Db
Company: Oxy Permian
Project: Eddy Co., New Mexico
Site: Oxy Garter #1
Well: Oxy Garter #1
Wellbore: Lateral #1
Design: Lateral #1

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

Well Oxy Garter #1
WELL @ 0.00ft (Original Well Elev)
WELL @ 0.00ft (Original Well Elev)
True
Minimum Curvature

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S ft	+E/-W ft	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL [Garter #1] -Point	0.00	0.00	9219.00	378.70	18.88	652826.79	556879.20	32° 47' 40.454" N	104° 08' 53.659" W

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6293.00	6286.41	192.90	-8.44	First MWD Survey
10450.00	10435.77	412.27	3.90	Last MWD Survey
10500.00	10485.74	412.31	2.05	Proj to Bit - TD



Oxy Permian

Project: Eddy Co., New Mexico
Site: Oxy Garter #1
Well: Oxy Garter #1
Wellbore: Lateral #1
Plan: Plan #1

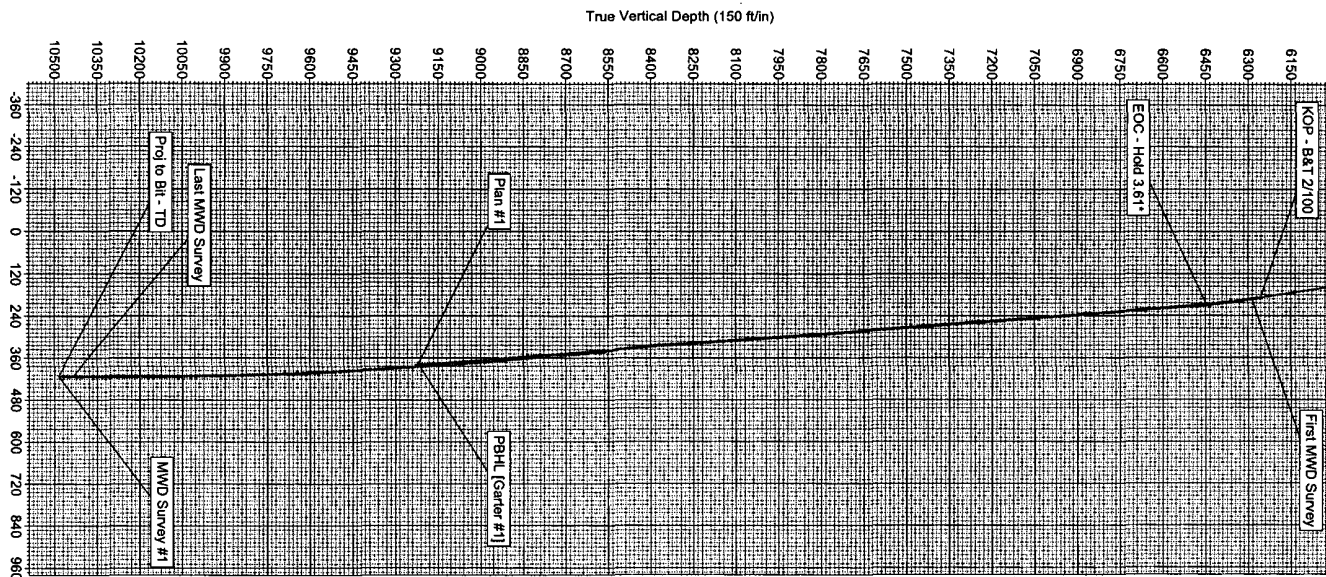


Azimuths to True North
Magnetic North: 8.88°
Magnetic Field
Strength: 49732.9nT
Dip Angle: 60.88°
Date: 11/23/2004
Model: IGRF2000

ANNOTATIONS

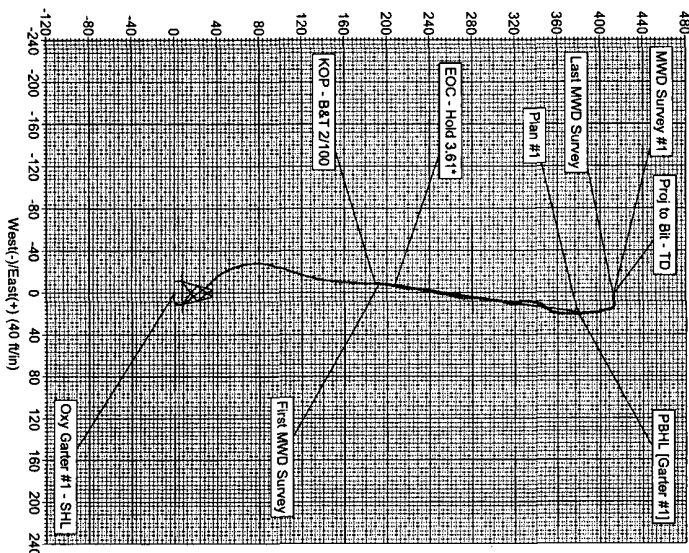
TVD MD Annotation
6255.66 6262.00 KOP - B&T 2/100
6446.10 6453.35 EOC - Hold 3.61°

Plan: Plan #1 (Oxy Garter #1, Lateral #1)
Created By: John Wellbore Date: 11/23/04
Checked: _____ Date: _____



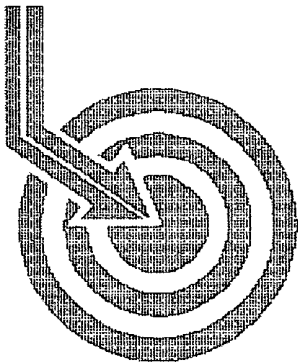
Vertical Section at 3.01° (120 ft/in)

South(-)/North(+) (40 ft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	Tface	VSec	Target
1	6262.00	7.39	2.41	6255.66	188.01	-8.63	0.00	174.20	188.30	PBHL
2	6454.62	3.58	8.66	6447.36	207.34	-7.20	2.00	206.67	206.67	Garter #1
3	9231.67	3.58	8.66	9219.00	378.70	18.88	0.00	379.17	379.17	Garter #1



Scientific Drilling

OCCIDENTAL PERMIAN LTD.

Field: Empire, S.
Site: Eddy County, NM
Well: Garter State #1
Wellpath: VH - Job #32K1104738
Survey: 11/23/04

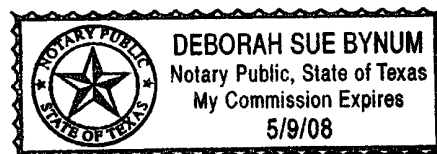
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Becky Shartn..... Company Representative

Notorized this date 20th of December, 2004.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Empire, S.
Site: Eddy County, NM
Well: Garter State #1
Wellpath: VH - Job #32K1104738

Date: 12/20/2004 Time: 08:50:13 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,357.39Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 11/23/04
KSRG 0'-6262'
Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Surface Readout

Start Date: 11/23/2004
Engineer: Carter w/Computalog
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
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.20	11.25	100.0	0.2	0.2	0.0	0.20	0.2	11.25
200.0	0.22	57.65	200.0	0.4	0.4	0.2	0.17	0.5	27.36
300.0	0.71	106.45	300.0	0.3	0.4	1.0	0.59	1.1	69.32
400.0	0.84	96.22	400.0	0.0	0.1	2.3	0.19	2.3	87.09
500.0	0.87	95.53	500.0	-0.2	0.0	3.8	0.03	3.8	90.53
600.0	0.77	99.91	600.0	-0.5	-0.2	5.2	0.12	5.2	92.46
700.0	0.77	86.54	700.0	-0.6	-0.3	6.5	0.18	6.6	92.62
800.0	0.81	77.62	799.9	-0.5	-0.1	7.9	0.13	7.9	90.77
900.0	0.61	54.58	899.9	-0.1	0.4	9.0	0.34	9.0	87.76
1000.0	0.55	40.97	999.9	0.6	1.0	9.8	0.15	9.8	84.02
1100.0	0.53	29.07	1099.9	1.3	1.8	10.3	0.11	10.5	80.15
1200.0	0.60	14.27	1199.9	2.2	2.7	10.7	0.16	11.0	75.79
1300.0	0.49	355.12	1299.9	3.1	3.6	10.8	0.21	11.4	71.34
1400.0	0.75	6.34	1399.9	4.2	4.7	10.8	0.29	11.8	66.43
1500.0	0.67	342.70	1499.9	5.4	5.9	10.7	0.30	12.2	61.04
1600.0	0.92	341.03	1599.9	6.8	7.2	10.3	0.25	12.6	54.81
1700.0	0.94	339.32	1699.9	8.3	8.8	9.7	0.03	13.1	47.94
1800.0	1.02	331.34	1799.9	9.9	10.3	9.0	0.16	13.7	41.10
1900.0	1.31	328.65	1899.8	11.7	12.1	8.0	0.30	14.5	33.45
2000.0	1.36	322.72	1999.8	13.7	14.0	6.7	0.15	15.5	25.46
2100.0	1.24	319.50	2099.8	15.5	15.8	5.2	0.14	16.6	18.39
2200.0	1.33	319.65	2199.8	17.3	17.5	3.8	0.09	17.9	12.23
2300.0	1.28	322.18	2299.7	19.1	19.2	2.3	0.08	19.4	6.96
2400.0	1.51	324.74	2399.7	21.1	21.2	0.9	0.24	21.2	2.44
2500.0	1.32	323.00	2499.7	23.2	23.2	-0.6	0.19	23.2	358.64
2600.0	1.37	327.15	2599.7	25.2	25.1	-1.9	0.11	25.2	355.69
2700.0	1.41	321.56	2699.6	27.2	27.1	-3.3	0.14	27.3	353.04
2800.0	1.13	318.34	2799.6	29.0	28.8	-4.7	0.29	29.2	350.68
2900.0	1.29	321.63	2899.6	30.6	30.4	-6.1	0.17	31.0	348.69
3000.0	1.20	315.61	2999.6	32.3	32.0	-7.5	0.16	32.9	346.80
3100.0	1.24	314.60	3099.5	33.9	33.5	-9.0	0.05	34.7	344.96
3200.0	1.33	315.24	3199.5	35.6	35.1	-10.6	0.09	36.7	343.20
3300.0	1.49	319.24	3299.5	37.5	36.9	-12.3	0.19	38.9	341.62
3400.0	1.38	314.81	3399.4	39.4	38.8	-14.0	0.16	41.2	340.18
3500.0	1.29	309.87	3499.4	41.0	40.3	-15.7	0.15	43.3	338.74
3600.0	1.63	330.53	3599.4	43.0	42.3	-17.3	0.62	45.7	337.81
3700.0	1.66	331.86	3699.3	45.6	44.8	-18.6	0.05	48.5	337.42
3800.0	1.61	333.37	3799.3	48.2	47.3	-19.9	0.07	51.4	337.15
3900.0	1.76	333.60	3899.3	50.9	50.0	-21.3	0.15	54.3	336.95
4000.0	1.82	337.63	3999.2	53.8	52.8	-22.5	0.14	57.4	336.88
4100.0	1.71	337.64	4099.2	56.7	55.7	-23.7	0.11	60.5	336.92
4200.0	1.74	341.79	4199.1	59.6	58.5	-24.8	0.13	63.5	337.05
4300.0	1.69	344.39	4299.1	62.5	61.3	-25.6	0.09	66.5	337.32
4400.0	1.89	345.65	4399.0	65.5	64.4	-26.4	0.20	69.6	337.67
4500.0	1.94	347.90	4499.0	68.8	67.6	-27.2	0.09	72.9	338.09
4600.0	1.97	351.51	4598.9	72.2	71.0	-27.8	0.13	76.2	338.60
4700.0	1.85	355.37	4698.9	75.5	74.3	-28.2	0.18	79.5	339.22
4800.0	2.24	2.72	4798.8	79.1	77.8	-28.2	0.47	82.8	340.07



Scientific Drilling International

Survey Report

Company: OCCIDENTAL PERMIAN LTD.
Field: Empire, S.
Site: Eddy County, NM
Well: Garter State #1
Wellpath: VH - Job #32K1104738

Date: 12/20/2004 Time: 08:50:13 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,357.39Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

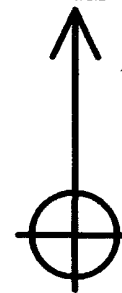
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	2.32	6.17	4898.7	83.0	81.8	-27.9	0.16	86.4	341.15
5000.0	2.53	7.96	4998.6	87.2	86.0	-27.4	0.22	90.3	342.33
5100.0	2.69	15.55	5098.5	91.6	90.5	-26.5	0.38	94.2	343.69
5200.0	2.74	15.02	5198.4	96.1	95.0	-25.2	0.06	98.3	345.14
5300.0	3.06	17.60	5298.3	100.9	99.9	-23.8	0.35	102.7	346.60
5400.0	3.30	18.21	5398.1	106.1	105.2	-22.1	0.24	107.4	348.14
5500.0	4.11	20.78	5497.9	112.0	111.2	-19.9	0.83	113.0	349.85
5600.0	4.30	17.88	5597.6	118.8	118.2	-17.5	0.29	119.4	351.58
5700.0	4.92	16.13	5697.3	126.4	125.8	-15.1	0.64	126.8	353.14
5800.0	5.60	11.89	5796.9	135.2	134.7	-13.0	0.78	135.4	354.51
5900.0	6.33	5.96	5896.4	145.4	145.0	-11.4	0.95	145.4	355.52
6000.0	6.76	4.49	5995.7	156.7	156.3	-10.3	0.46	156.7	356.22
6100.0	7.24	2.60	6095.0	168.8	168.5	-9.6	0.53	168.8	356.74
6200.0	7.26	2.86	6194.2	181.3	181.1	-9.0	0.04	181.3	357.16
6262.0	7.39	2.41	6255.7	189.2	189.0	-8.6	0.23	189.2	357.39



**Scientific
Drilling**

Field: Empire, S.
Site: Eddy County, NM
Well: Garter State #1
Wellpath: VH - Job #32K1104738
Survey: 11/23/04

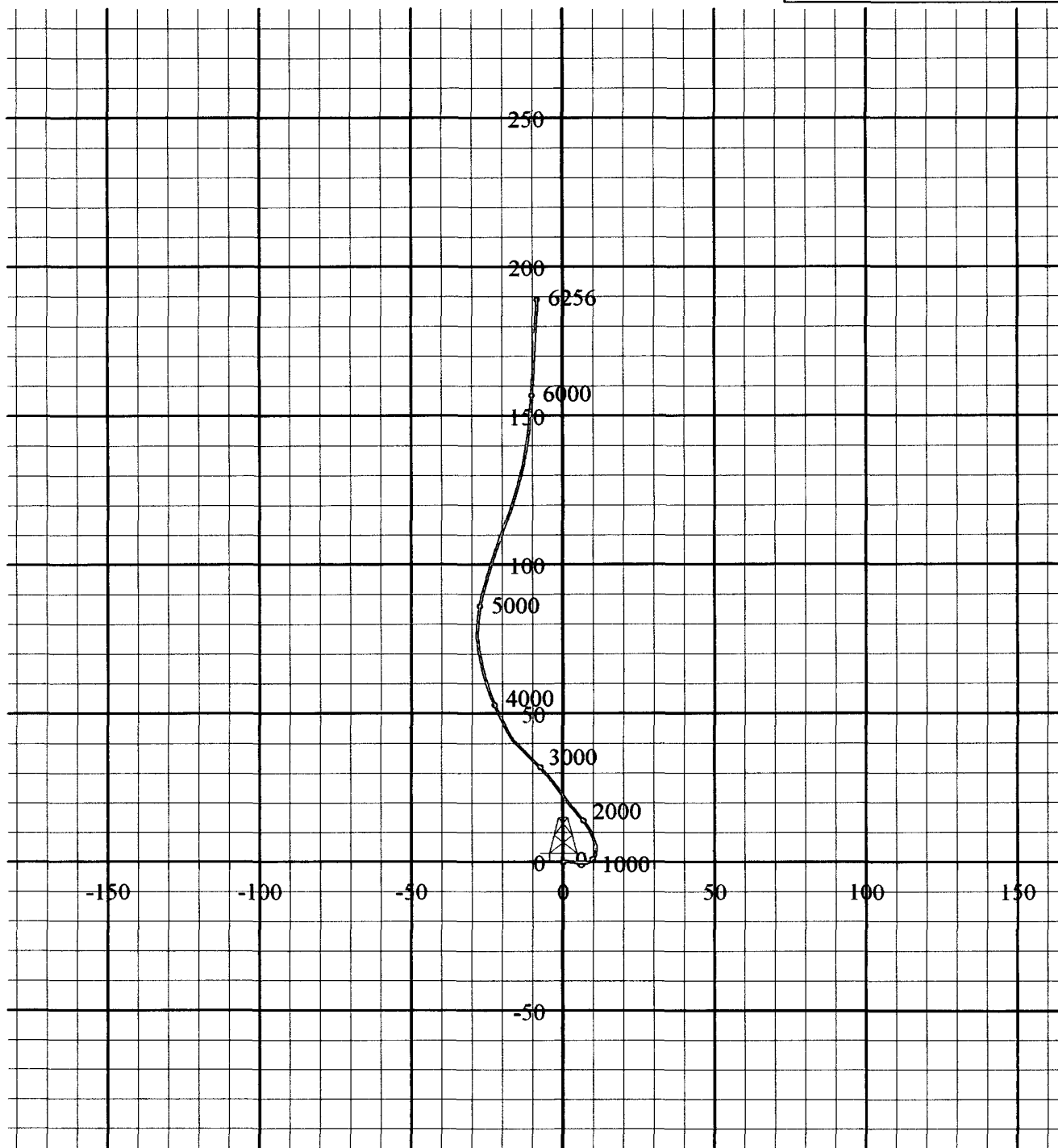
G/T/M



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 12/19/2004
Model: igrf2000

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



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