

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

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
Yates Petroleum Corporation

3. Address
105 S. 4th Str., Artesia, NM 88210

3a Phone No (include area code)
575-748-1471

4 Location of Well (Report location clearly and in accordance with Federal requirements)*

At Surface 760'FNL & 660'FEL (Unit A, NENE)

At top prod. Interval reported below

BHL 824'FNL & 709'FWL (Unit D, NWNW)

5 Lease Serial No

NM-10266

6 If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8 Lease Name and Well No

Terry FU Com #6H

9. API Well No

30-015-35624

10 Field and Pool or Exploratory

Cottonwood Creek; Wolfcamp

11 Sec., T., R., M., on Block and
Survey or Area

Section 21-T16S-R25E

12 County or Parish 13 State

Eddy

New Mexico

14. Date Spudded
RH 7/15/08 RT 7/18/08

15 Date T D Reached
8/10/08

16 Date Completed 9/7/08
☐ D & A ☒ Ready to Prod.

17 Elevations (DF, RKB, RT, GL)*

3511'GL 3522'KB

18. Total Depth MD 8680'
TVD 5038'

19 Plug Back T.D.: MD 8670'
TVD NA

20 Depth Bridge Plug Set. MD NA
TVD NA

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)

CNL, Hi-Res Laterolog Array, CBL

22 Was Well cored? ☒ No ☐ Yes (Submit analysis)

Was DST run? ☒ No ☐ Yes (Submit report)

Directional Survey? ☐ No ☒ Yes (Submit copy) (Attached)

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

Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	State Cementer Depth	No. of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
	16"	Cond.	Surface	80'		Redi-mix		Surface	
12-1/4"	8-5/8"	24#	Surface	1100'		1265 sx		Surface	
7-7/8"	5-1/2"	17#	Surface	8680'		1060 sx		Surface	

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"	4514'							

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) Wolfcamp	5315'	8645'				
B)						
C)						
D)						

SEE ATTACHED SHEET

27 Acid, Fracture, Treatment, Cement Squeeze, Etc

Depth Interval	Amount and Type of Material

SEE ATTACHED SHEET

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
9/8/08	9/10/08	24	→	6	3766	111	NA	NA	Flowing
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
NA	550 psi	875 psi	→	6	3766	111	NA		

28a Production-Interval B

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	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

Producing

OCT 14 2008

JERRY FANT
PETROLEUM GEOLOGIST

*(See instructions and spaces for additional data on page 2)

Accepted for record - NMOCD

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	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.	Csg Press.	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio		Well Status

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

Sold

30. Summary of Porous Zones (Include Aquifers)

Show all important zones of 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	Description, Contents, etc.	Name	Top
					Meas Depth
				San Andres	650'
				Glorieta	1940'
				Tubb	3220'
				Abo	3900'
				Wolfcamp	4881'

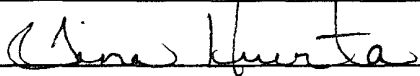
32 Additional remarks (include plugging procedure)

33 Indicate which items have been attached by placing a check in the appropriate boxes

- ☒ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☒ 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) Tina Huerta Title Regulatory Compliance Supervisor

Signature  Date September 12, 2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Continued on page 3)

(Form 3160-4, page2)

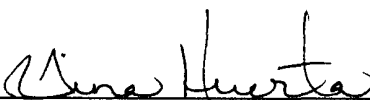
Form 3160-4 continued:

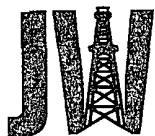
26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
8645'		10	Producing
8423'		10	Producing
8201'		10	Producing
7979'		10	Producing
7757'		10	Producing
7535'		10	Producing
7313'		10	Producing
7091'		10	Producing
6869'		10	Producing
6647'		10	Producing
6425'		10	Producing
6203'		10	Producing
5981'		10	Producing
5759'		10	Producing
5537'		10	Producing
5315'		10	Producing

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

Depth Interval	Amount and Type of Material
8645', 8423', 8201' & 7979'	Pumped 1000g slickwater, 4000g 15% HCL, 18,000g 20# borate gel and Frac with 265,000g slickwater, 38,000# 100 mesh sand, 102,000# 20/40 white sand
7757', 7535' 7313' & 7091'	Frac with 265,000g slickwater, 38,000# 100 mesh sand, 102,000# 20/40 white sand
6869', 6647' 6425' & 6203'	Pumped 1000g slickwater, 4000g 15% HCL, 18,000g 20# borate gel and Frac with 265,000g slickwater, 38,000# 100 mesh sand, 102,000# 20 40 white sand
5981', 5759' 5537' & 5315'	Frac with 265,000g slickwater, 38,000# 100 mesh sand, 102,000# 20/40 white sand


Regulatory Compliance Supervisor
September 12, 2008



DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 Artesia, New Mexico 88211-0160 Office (505) 748-8704 Fax (505) 748-8719

August 11, 2008

Yates Petroleum Corp.
105 S. 4th Street
Artesia, New Mexico 88210

Re: Terry FU Com #6H
Sec. 21, T-16-S, R-25-E
Chaves County, New Mexico

Attn: Tim Bussell

The following is a Deviation Survey on the referenced well in Chaves County, New Mexico:

184' - 0.5°
428' - 1.75°
791' - 0.75°
1296' - 1°
1581' - 1.25°
1866' - 1.5°
2135' - 1°
2405' - 0.5°
2690' - 1°
2975' - 1.25°
3261' - 0.75°
3641' - 1°
4022' - 0.75°
4497' - 1.25°

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 11th day of August, 2008 by Gary W. Chappell.

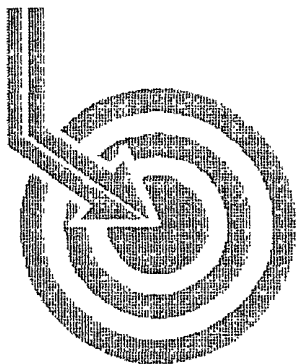
MY COMMISSION EXPIRES

4/15/10



OFFICIAL SEAL
Patti H. Horner
NOTARY PUBLIC
My commission expires

NOTARY PUBLIC



Scientific Drilling

YATES PETROLEUM

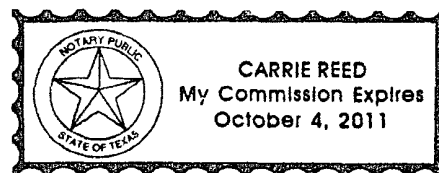
Field: Terry
Site: Eddy County, NM
Well: Terry FU Com #6
Wellpath: VH - Job #32K0708594
Survey: 07/30/08

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

.....*R. Wharton*..... Company Representative

Notorized this date 21st of August, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: YATES PETROLEUM
Field: Terry
Site: Eddy County, NM
Well: Terry FU Com #6
Wellpath: VH - Job #32K0708594

Date: 08/20/2008 Time: 18:02:23 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,270.26Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 07/30/08 Start Date: 07/30/2008
Company: Scientific Drilling Internatio Engineer: Guebara/Williams w/GeoGyro
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	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1.00	129.23	99.99	-0.68	-0.55	0.68	1.00	0.87	129.23
200.00	1.25	123.23	199.98	-2.27	-1.70	2.26	0.28	2.83	126.92
300.00	1.25	123.08	299.95	-4.10	-2.89	4.09	0.00	5.01	125.28
400.00	2.05	118.25	399.91	-6.60	-4.34	6.58	0.81	7.88	123.39
500.00	1.57	164.24	499.86	-8.56	-6.50	8.53	1.48	10.72	127.32
600.00	1.24	147.58	599.83	-9.52	-8.73	9.48	0.52	12.89	132.65
700.00	0.72	196.92	699.82	-9.92	-10.25	9.88	0.94	14.23	136.06
800.00	0.73	201.95	799.81	-9.51	-11.44	9.46	0.06	14.84	140.42
900.00	1.25	176.35	899.80	-9.35	-13.12	9.29	0.67	16.07	144.70
1000.00	1.25	191.93	999.77	-9.20	-15.28	9.13	0.34	17.80	149.13
1100.00	1.12	198.91	1099.75	-8.67	-17.27	8.59	0.19	19.29	153.55
1200.00	1.09	192.19	1199.73	-8.16	-19.12	8.07	0.13	20.75	157.11
1300.00	1.26	191.87	1299.71	-7.74	-21.13	7.64	0.17	22.47	160.11
1400.00	1.23	197.10	1399.69	-7.21	-23.23	7.10	0.12	24.29	163.00
1500.00	1.33	195.70	1499.67	-6.59	-25.37	6.47	0.10	26.18	165.69
1600.00	1.46	197.11	1599.64	-5.91	-27.71	5.78	0.13	28.30	168.21
1700.00	1.31	212.26	1699.61	-4.94	-29.89	4.80	0.39	30.27	170.88
1800.00	1.11	213.63	1799.58	-3.80	-31.66	3.65	0.20	31.87	173.42
1900.00	1.09	214.21	1899.57	-2.73	-33.26	2.58	0.02	33.36	175.56
2000.00	1.04	214.93	1999.55	-1.69	-34.79	1.53	0.05	34.82	177.49
2100.00	0.92	227.07	2099.53	-0.58	-36.08	0.42	0.24	36.08	179.33
2200.00	0.79	220.11	2199.52	0.44	-37.15	-0.61	0.17	37.16	180.94
2300.00	0.81	224.88	2299.51	1.38	-38.18	-1.55	0.07	38.21	182.33
2400.00	0.83	238.59	2399.50	2.49	-39.06	-2.67	0.20	39.15	183.91
2500.00	0.69	229.40	2499.49	3.57	-39.83	-3.75	0.19	40.00	185.37
2600.00	0.76	225.93	2599.49	4.50	-40.68	-4.68	0.08	40.95	186.56
2700.00	0.81	235.24	2699.48	5.55	-41.55	-5.74	0.14	41.94	187.86
2800.00	0.69	223.59	2799.47	6.54	-42.38	-6.73	0.19	42.92	189.03
2900.00	0.82	228.35	2899.46	7.49	-43.30	-7.68	0.14	43.97	190.06
3000.00	0.53	228.35	2999.45	8.36	-44.08	-8.56	0.29	44.90	190.99
3100.00	0.56	218.13	3099.45	9.01	-44.77	-9.21	0.10	45.71	191.63
3200.00	0.31	232.17	3199.45	9.52	-45.32	-9.73	0.27	46.35	192.11
3300.00	0.43	217.97	3299.44	9.96	-45.78	-10.17	0.15	46.90	192.53
3400.00	0.52	265.20	3399.44	10.64	-46.12	-10.85	0.39	47.38	193.24
3500.00	0.36	267.36	3499.44	11.41	-46.17	-11.62	0.16	47.61	194.13
3600.00	0.43	258.30	3599.43	12.09	-46.26	-12.30	0.09	47.87	194.89
3700.00	0.21	273.81	3699.43	12.64	-46.32	-12.85	0.23	48.07	195.51
3800.00	0.27	282.08	3799.43	13.05	-46.26	-13.27	0.07	48.13	196.00
3900.00	0.51	68.25	3899.43	12.87	-46.05	-13.08	0.75	47.87	195.86
4000.00	0.29	81.06	3999.43	12.21	-45.84	-12.42	0.24	47.50	195.16
4100.00	0.44	88.11	4099.43	11.58	-45.79	-11.78	0.16	47.28	194.43
4200.00	0.68	74.06	4199.42	10.62	-45.62	-10.83	0.27	46.88	193.36
4300.00	1.20	81.26	4299.41	9.02	-45.29	-9.23	0.53	46.22	191.51
4400.00	2.03	82.14	4399.37	6.23	-44.89	-6.44	0.83	45.35	188.16
4500.00	2.50	81.81	4499.29	2.32	-44.34	-2.52	0.47	44.41	183.26
4600.00	2.45	76.16	4599.20	-1.91	-43.52	1.71	0.25	43.55	177.75
4700.00	2.57	77.96	4699.10	-6.17	-42.54	5.98	0.14	42.96	172.00
4800.00	2.48	75.63	4799.00	-10.46	-41.53	10.27	0.14	42.78	166.11



Scientific
Drilling

Scientific Drilling International Survey Report

Company: YATES PETROLEUM
Field: Terry
Site: Eddy County, NM
Well: Terry FU Com #6
Wellpath: VH - Job #32K0708594

Date: 08/20/2008 Time: 18:02:23 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,270.26Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

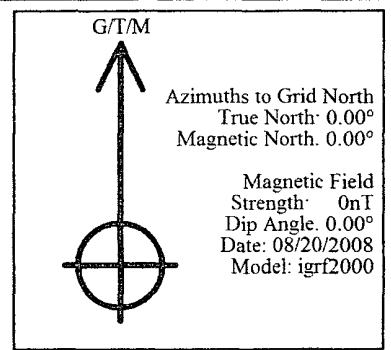
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	2.38	80.22	4898.91	-14.59	-40.64	14.41	0.22	43.12	160.48
4966.00	2.36	79.26	4964.86	-17.28	-40.16	17.10	0.07	43.65	156.94



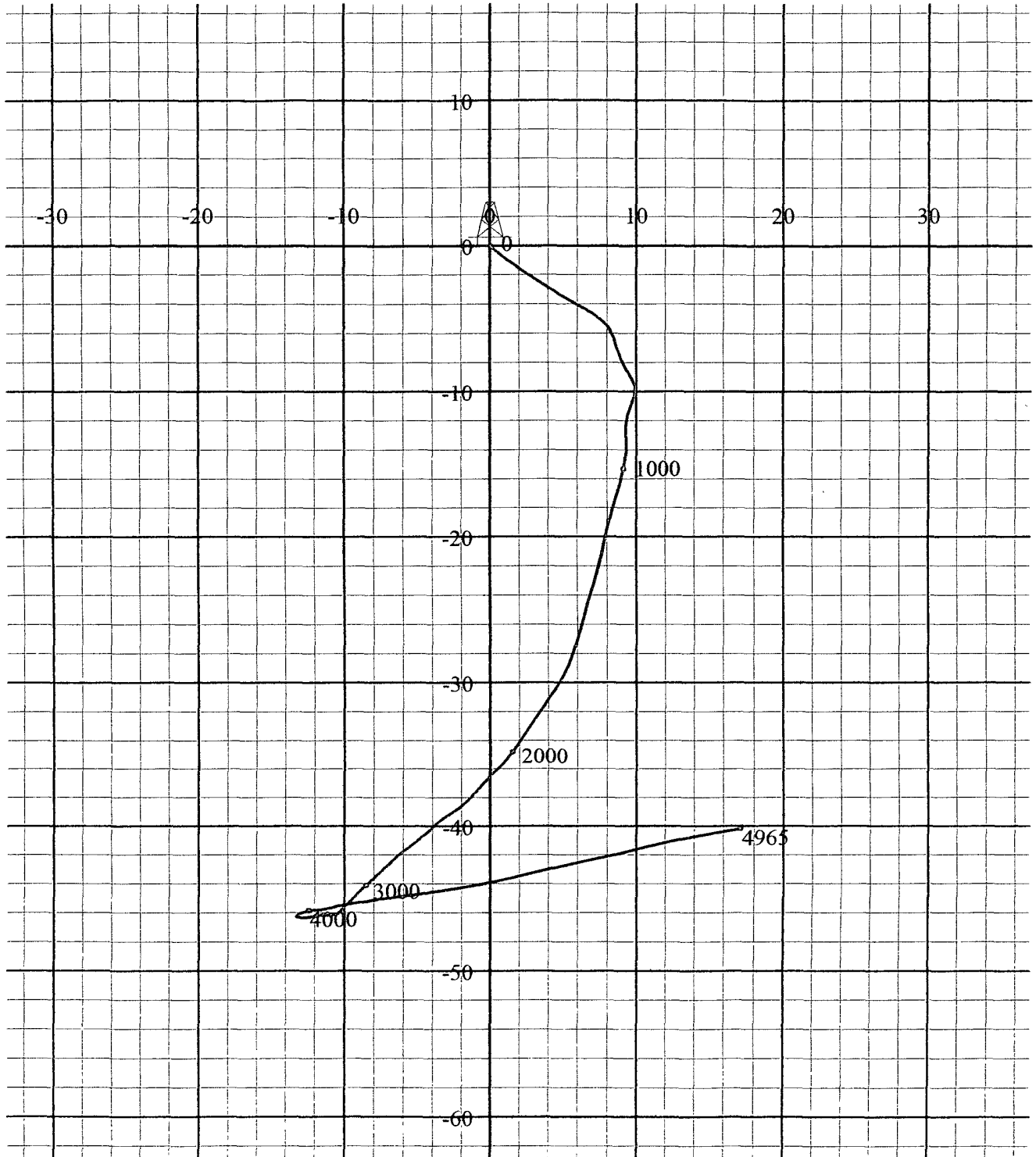
Scientific
Drilling

Field: Terry
Site: Eddy County, NM
Well: Terry FU Com #6
Wellpath: VH - Job #32K0708594
Survey: 07/30/08



West(-)/East(+) [10ft/in]

South(-)/North(+) [10ft/in]



Yates Petroleum Corp.

Eddy County
Terry Fu Com #6H
Terry FU Com #6H
OH

Survey: MWD #1

Pathfinder X & Y Survey Report

12 August, 2008

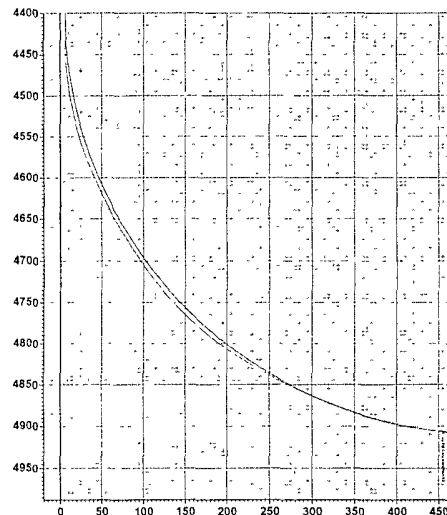
PATHFINDER
ENERGY SERVICES

Yates Petroleum Corporation



Azimuths to Grid North
True North: 0.15°
Magnetic North: 8.61°

Magnetic Field
Strength: 49254.4snT
Dip Angle: 60.72°
Date: 2008/07/11
Model: IGRF200510

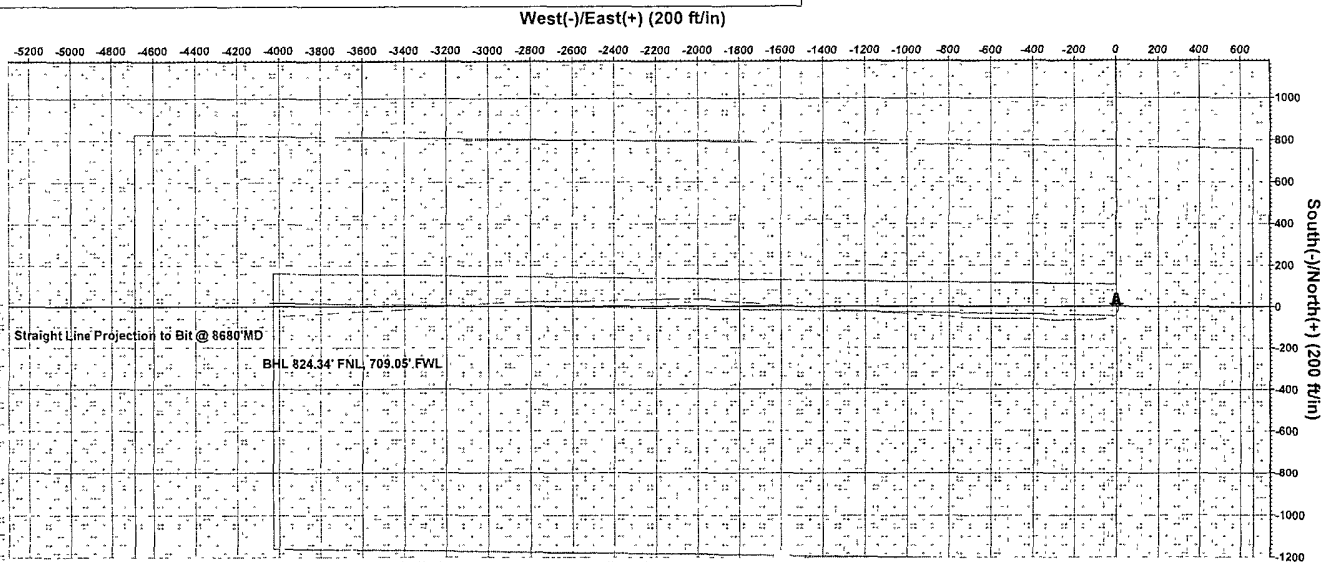


WELL DETAILS: Terry FU Com #6H						
Ground Elevation: 0.00						
RKB Elevation: WELL @ 0.00ft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	696137.900	453796.900	32° 54' 48.142 N	104° 37' 6.948 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL OH(FU#6H)	4845.00	18.60	-4030.00	696156.500	449766.900
					Shape Point

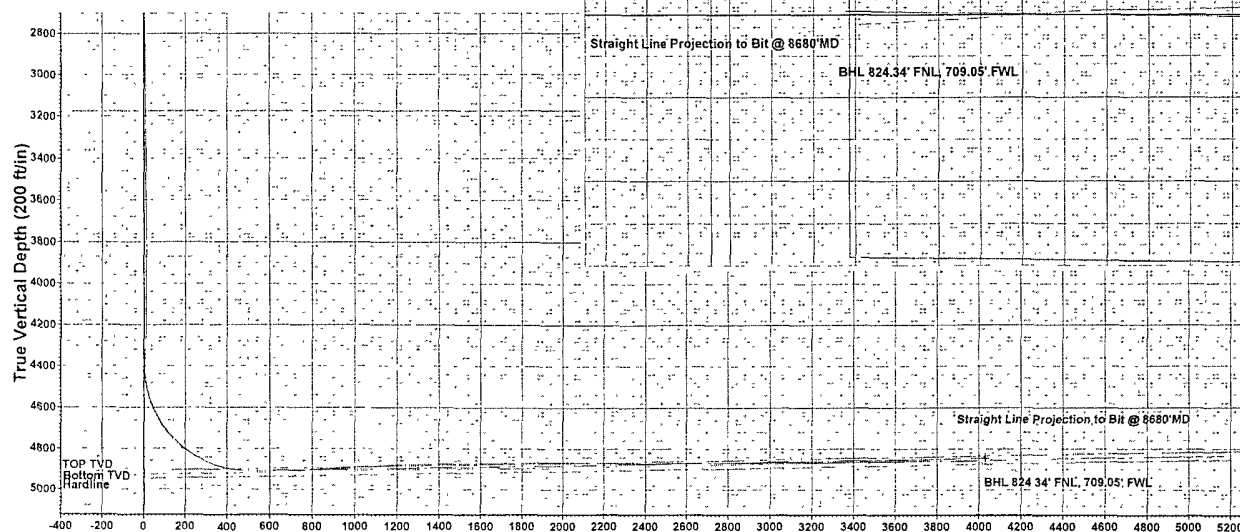
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4386.50	1.92	82.07	4385.88	-44.96	-6.90	0.00	0.00	6.69	
2	5209.75	91.06	270.86	4910.00	-34.47	-523.34	11.29	-171.20	523.18	
3	8717.41	91.06	270.87	4845.00	18.60	-4030.00	0.00	75.67	4030.04	PBHL OH(FU#6H)

Project: Eddy County
Site: Terry FU Com #6H
Well: Terry FU Com #6H
Wellbore: OH
Plan: Plan #2 (Terry FU Com #6H/OH)



Straight Line Projection to Bit @ 8680' MD

BHL 824.34' FNL 709.05' FWL



TOP TVD
Bottom TVD
Hardline

Straight Line Projection to Bit @ 8680' MD

BHL 824.34' FNL 709.05' FWL

Vertical Section at 270.26° (200 ft/in)

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

Plan: Plan #2 (Terry FU Com #6H/OH)

Created By: Nate Bingham Date: 10/01/2008

Checked: _____ Date: _____

Pathfinder Energy Services Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well Terry FU Com #6H
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Terry Fu Com #6H	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Terry FU Com #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.16 Single User Db

Project:	Eddy County	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Terry Fu Com #6H				
Site Position:		Northing:	696,137.900 ft	Latitude:	32° 54' 48.142 N
From:	Map	Easting:	453,796.900 ft	Longitude:	104° 37' 6.948 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.16 °

Well	Terry FU Com #6H					
Well Position	+N/-S	0.00 ft	Northing:	696,137.900 ft	Latitude:	32° 54' 48.142 N
	+E/-W	0.00 ft	Easting:	453,796.900 ft	Longitude:	104° 37' 6.948 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	2008/07/11	8.46	60.72	49,254

Design:	OH				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	270.26	

Survey Program	Date	2008/08/12			
From	To	Survey (Wellbore)	Tool Name	Description	
(ft)	(ft)				
5,200.00	5,200.00	Pilot Hole (OH)			

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well Terry FU Com #6H
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Terry Fu Com #6H	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Terry FU Com #6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
4,300.00	1.20	81.26	4,299.41	4,299.41	-45.29	-9.23	9.02	0.00	696,092.61	453,787.67
4,392.00	1.67	84.76	4,391.38	4,391.38	-45.03	-6.94	6.73	0.52	696,092.87	453,789.96
4,422.00	0.53	129.20	4,421.37	4,421.37	-45.07	-6.40	6.19	4.48	696,092.83	453,790.50
4,452.00	2.99	241.38	4,451.36	4,451.36	-45.54	-6.97	6.77	10.76	696,092.36	453,789.93
4,483.00	7.03	247.70	4,482.24	4,482.24	-46.64	-9.44	9.23	13.13	696,091.26	453,787.46
4,514.00	11.70	250.41	4,512.81	4,512.81	-48.42	-14.16	13.94	15.13	696,089.48	453,782.74
4,545.00	16.09	253.03	4,542.90	4,542.90	-50.73	-21.23	21.00	14.30	696,087.17	453,775.67
4,576.00	20.05	255.43	4,572.37	4,572.37	-53.32	-30.49	30.25	13.00	696,084.58	453,766.41
4,606.00	23.74	256.94	4,600.20	4,600.20	-55.98	-41.35	41.10	12.44	696,081.92	453,755.55
4,636.00	26.73	258.56	4,627.33	4,627.33	-58.68	-53.85	53.58	10.23	696,079.22	453,743.05
4,667.00	30.16	260.17	4,654.59	4,654.59	-61.39	-68.36	68.08	11.34	696,076.51	453,728.54
4,698.00	32.45	263.73	4,681.07	4,681.07	-63.63	-84.31	84.02	9.49	696,074.27	453,712.59
4,729.00	35.09	266.75	4,706.84	4,706.84	-65.05	-101.47	101.18	10.09	696,072.85	453,695.43
4,760.00	38.78	269.70	4,731.62	4,731.62	-65.60	-120.08	119.79	13.20	696,072.30	453,676.82
4,790.00	43.00	271.19	4,754.29	4,754.29	-65.44	-139.72	139.42	14.44	696,072.46	453,657.18
4,821.00	47.40	271.27	4,776.13	4,776.13	-64.97	-161.70	161.41	14.19	696,072.93	453,635.20
4,852.00	52.06	269.78	4,796.16	4,796.16	-64.76	-185.35	185.05	15.47	696,073.14	453,611.55
4,884.00	56.54	268.34	4,814.83	4,814.83	-65.20	-211.32	211.02	14.47	696,072.70	453,585.58
4,916.00	59.71	268.25	4,831.73	4,831.73	-66.00	-238.48	238.18	9.91	696,071.90	453,558.42
4,947.00	62.43	268.62	4,846.72	4,846.72	-66.74	-265.60	265.29	8.84	696,071.16	453,531.30
4,979.00	65.07	270.36	4,860.88	4,860.88	-66.99	-294.29	293.99	9.58	696,070.91	453,502.61
5,011.00	67.80	273.64	4,873.67	4,873.67	-65.96	-323.60	323.30	12.69	696,071.94	453,473.30
5,043.00	71.05	275.01	4,884.92	4,884.92	-63.70	-353.47	353.18	10.92	696,074.20	453,443.43
5,073.00	75.45	274.45	4,893.56	4,893.56	-61.33	-382.09	381.81	14.78	696,076.57	453,414.81
5,105.00	79.76	272.95	4,900.43	4,900.43	-59.32	-413.27	413.00	14.23	696,078.58	453,383.63
5,136.00	83.80	271.16	4,904.86	4,904.86	-58.22	-443.93	443.66	14.23	696,079.68	453,352.97
5,168.00	86.00	270.37	4,907.70	4,907.70	-57.80	-475.79	475.53	7.30	696,080.10	453,321.11

Pathfinder Energy Services

Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well Terry FU Com #6H
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Terry Fu Com #6H	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Terry FU Com #6H	North Reference:	Grd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.16 Single User Db

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,200.00	88.55	270.16	4,909.23	4,909.23	-57.65	-507.75	507.49	8.00	696,080.25	453,289.15	
5,232.00	90.40	270.07	4,909.52	4,909.52	-57.59	-539.75	539.49	5.79	696,080.31	453,257.15	
5,327.00	91.98	271.48	4,907.55	4,907.55	-56.30	-634.72	634.46	2.23	696,081.60	453,162.18	
5,422.00	90.75	272.23	4,905.28	4,905.28	-53.23	-729.64	729.39	1.52	696,084.67	453,067.26	
5,517.00	93.74	274.21	4,901.56	4,901.56	-47.90	-824.40	824.17	3.77	696,090.00	452,972.50	
5,612.00	93.30	273.67	4,895.73	4,895.73	-41.38	-919.00	918.80	0.73	696,096.52	452,877.90	
5,708.00	93.56	274.03	4,889.98	4,889.98	-34.95	-1,014.61	1,014.44	0.46	696,102.95	452,782.29	
5,771.00	93.56	274.27	4,886.07	4,886.07	-30.40	-1,077.32	1,077.17	0.38	696,107.50	452,719.58	
5,866.00	92.33	273.02	4,881.19	4,881.19	-24.37	-1,172.00	1,171.88	1.84	696,113.53	452,624.90	
5,993.00	90.40	274.23	4,878.17	4,878.17	-16.34	-1,298.70	1,298.61	1.79	696,121.56	452,498.20	
6,056.00	91.63	275.61	4,877.05	4,877.05	-10.94	-1,361.46	1,361.39	2.93	696,126.96	452,435.44	
6,151.00	90.40	274.71	4,875.37	4,875.37	-2.40	-1,456.05	1,456.03	1.60	696,135.50	452,340.85	
6,246.00	91.36	273.32	4,873.91	4,873.91	4.26	-1,550.81	1,550.81	1.78	696,142.16	452,246.09	
6,341.00	90.31	272.97	4,872.52	4,872.52	9.47	-1,645.65	1,645.68	1.17	696,147.37	452,151.25	
6,436.00	91.54	275.17	4,870.99	4,870.99	16.21	-1,740.39	1,740.45	2.65	696,154.11	452,056.51	
6,531.00	91.63	275.23	4,868.36	4,868.36	24.81	-1,834.97	1,835.06	0.11	696,162.71	451,961.93	
6,596.00	91.01	274.88	4,866.87	4,866.87	30.54	-1,899.69	1,899.81	1.10	696,168.44	451,897.21	
6,658.00	90.22	273.55	4,866.20	4,866.20	35.10	-1,961.52	1,961.66	2.49	696,173.00	451,835.38	
6,721.00	88.72	270.49	4,866.78	4,866.78	37.32	-2,024.47	2,024.62	5.41	696,175.22	451,772.43	
6,848.00	88.90	268.41	4,869.42	4,869.42	36.10	-2,151.43	2,151.57	1.64	696,174.00	451,645.47	
6,880.00	88.99	268.50	4,870.01	4,870.01	35.24	-2,183.41	2,183.55	0.40	696,173.14	451,613.49	
6,975.00	90.22	268.69	4,870.66	4,870.66	32.91	-2,278.38	2,278.51	1.31	696,170.81	451,518.52	
7,070.00	90.31	268.99	4,870.23	4,870.23	30.98	-2,373.36	2,373.48	0.33	696,168.88	451,423.54	
7,165.00	89.96	269.03	4,870.00	4,870.00	29.34	-2,468.35	2,468.45	0.37	696,167.24	451,328.55	
7,260.00	90.13	269.35	4,869.93	4,869.93	28.00	-2,563.34	2,563.44	0.38	696,165.90	451,233.56	
7,355.00	89.96	269.62	4,869.85	4,869.85	27.14	-2,658.33	2,658.43	0.34	696,165.04	451,138.57	
7,450.00	90.48	268.63	4,869.49	4,869.49	25.69	-2,753.32	2,753.41	1.18	696,163.59	451,043.58	

Pathfinder Energy Services

Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Terry Fu Com #6H
Well: Terry FU Com #6H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Terry FU Com #6H
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,545.00	90.04	268.28	4,869.06	4,869.06	23.13	-2,848.28	2,848.36	0.59	696,161.03	450,948.62
7,640.00	90.22	266.37	4,868.84	4,868.84	18.70	-2,943.17	2,943.23	2.02	696,156.60	450,853.73
7,735.00	91.45	266.48	4,867.46	4,867.46	12.78	-3,037.98	3,038.00	1.30	696,150.68	450,758.92
7,830.00	89.60	264.57	4,866.59	4,866.59	5.36	-3,132.68	3,132.67	2.80	696,143.26	450,664.22
7,893.00	90.04	264.88	4,866.78	4,866.78	-0.43	-3,195.41	3,195.37	0.85	696,137.47	450,601.49
7,988.00	91.45	266.69	4,865.55	4,865.55	-7.41	-3,290.14	3,290.07	2.41	696,130.49	450,506.76
8,052.00	89.96	265.89	4,864.76	4,864.76	-11.55	-3,354.00	3,353.91	2.64	696,126.35	450,442.90
8,147.00	91.98	266.55	4,863.15	4,863.15	-17.81	-3,448.77	3,448.65	2.24	696,120.09	450,348.13
8,242.00	90.31	267.23	4,861.25	4,861.25	-22.96	-3,543.61	3,543.47	1.90	696,114.94	450,253.29
8,337.00	91.98	267.78	4,859.36	4,859.36	-27.10	-3,638.49	3,638.33	1.85	696,110.80	450,158.41
8,432.00	89.34	266.81	4,858.26	4,858.26	-31.58	-3,733.37	3,733.19	2.96	696,106.32	450,063.53
8,496.00	89.08	266.55	4,859.14	4,859.14	-35.29	-3,797.26	3,797.06	0.57	696,102.61	449,999.64
8,591.00	89.34	266.81	4,860.45	4,860.45	-40.79	-3,892.09	3,891.87	0.39	696,097.11	449,904.81
8,612.00	89.78	266.81	4,860.62	4,860.62	-41.96	-3,913.06	3,912.83	2.10	696,095.94	449,883.84
8,680.00	89.78	266.81	4,860.88	4,860.88	-45.74	-3,980.95	3,980.70	0.00	696,092.16	449,815.95

Straight Line Projection to Bit @ 8680' MD - BHL 824.34' FNL, 709.05' FWL

Pathfinder Energy Services Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County
Site: Terry Fu Com #6H
Well: Terry FU Com #6H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Terry FU Com #6H
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Targets

Target Name	-hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL OH(FU#6H)		0.00	0.00	4,845.00	18 60	-4,030.00	696,156 500	449,766 900	32° 54' 48.216 N	104° 37' 54.225 W
- survey misses by 82 45ft at 8680 00ft MD (4860.88 TVD, -45.74 N, -3980.95 E)										
- Point										

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,680 00	4,860 88	-45.74	-3,980.95	Straight Line Projection to Bit @ 8680' MD
8,680.00	4,860 88	-45 74	-3,980 95	BHL 824.34' FNL, 709.05' FWL

Checked By: _____ Approved By: _____ Date: _____

H HEADER INFORMATION -----

H COMPANY : Yates Petroleum Corp.

H FIELD : Eddy County

H SITE : Terry Fu Com #6H

H WELL : Terry FU Com #6H

H WELLPATH: OH

H DEPTHUNT: ft

H SURVDATE: 2008/08/04

H-----

H WELL INFORMATION

H WELL EW MAP : 453796.90

H WELL NS MAP : 696137.90

H DATUM ELEVN : 0.00

H VSECT ANGLE : 270.26

H VSECT NORTH : 0.00

H VSECT EAST : 0.00

H-----

H SURVEY TYPE INFORMATION

H 5200.00 - 5200.00 PILOT HOLE :

H-----

H SURVEY LIST

H MD	INC	AZI	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00
4300.00	1.20	81.26	4299.41	-45.29	-9.23
4392.00	1.67	84.76	4391.38	-45.03	-6.94
4422.00	0.53	129.20	4421.37	-45.07	-6.40
4452.00	2.99	241.38	4451.36	-45.54	-6.97
4483.00	7.03	247.70	4482.24	-46.64	-9.44
4514.00	11.70	250.41	4512.81	-48.42	-14.16
4545.00	16.09	253.03	4542.90	-50.73	-21.23
4576.00	20.05	255.43	4572.37	-53.32	-30.49
4606.00	23.74	256.94	4600.20	-55.98	-41.35
4636.00	26.73	258.56	4627.33	-58.68	-53.85
4667.00	30.16	260.17	4654.59	-61.39	-68.36
4698.00	32.45	263.73	4681.07	-63.63	-84.31
4729.00	35.09	266.75	4706.84	-65.05	-101.47
4760.00	38.78	269.70	4731.62	-65.60	-120.08
4790.00	43.00	271.19	4754.29	-65.44	-139.72
4821.00	47.40	271.27	4776.13	-64.97	-161.70
4852.00	52.06	269.78	4796.16	-64.76	-185.35
4884.00	56.54	268.34	4814.83	-65.20	-211.32
4916.00	59.71	268.25	4831.73	-66.00	-238.48
4947.00	62.43	268.62	4846.72	-66.74	-265.60
4979.00	65.07	270.36	4860.88	-66.99	-294.29
5011.00	67.80	273.64	4873.67	-65.96	-323.60
5043.00	71.05	275.01	4884.92	-63.70	-353.47
5073.00	75.45	274.45	4893.56	-61.33	-382.09
5105.00	79.76	272.95	4900.43	-59.32	-413.27
5136.00	83.80	271.16	4904.86	-58.22	-443.93
5168.00	86.00	270.37	4907.70	-57.80	-475.79
5200.00	88.55	270.16	4909.23	-57.65	-507.75
5232.00	90.40	270.07	4909.52	-57.59	-539.75

5327.00	91.98	271.48	4907.55	-56.30	-634.72
5422.00	90.75	272.23	4905.28	-53.23	-729.64
5517.00	93.74	274.21	4901.56	-47.90	-824.40
5612.00	93.30	273.67	4895.73	-41.38	-919.00
5708.00	93.56	274.03	4889.98	-34.95	-1014.61
5771.00	93.56	274.27	4886.07	-30.40	-1077.32
5866.00	92.33	273.02	4881.19	-24.37	-1172.00
5993.00	90.40	274.23	4878.17	-16.34	-1298.70
6056.00	91.63	275.61	4877.05	-10.94	-1361.46
6151.00	90.40	274.71	4875.37	-2.40	-1456.05
6246.00	91.36	273.32	4873.91	4.26	-1550.81
6341.00	90.31	272.97	4872.52	9.47	-1645.65
6436.00	91.54	275.17	4870.99	16.21	-1740.39
6531.00	91.63	275.23	4868.36	24.81	-1834.97
6596.00	91.01	274.88	4866.87	30.54	-1899.69
6658.00	90.22	273.55	4866.20	35.10	-1961.52
6721.00	88.72	270.49	4866.78	37.32	-2024.47
6848.00	88.90	268.41	4869.42	36.10	-2151.43
6880.00	88.99	268.50	4870.01	35.24	-2183.41
6975.00	90.22	268.69	4870.66	32.91	-2278.38
7070.00	90.31	268.99	4870.23	30.98	-2373.36
7165.00	89.96	269.03	4870.00	29.34	-2468.35
7260.00	90.13	269.35	4869.93	28.00	-2563.34
7355.00	89.96	269.62	4869.85	27.14	-2658.33
7450.00	90.48	268.63	4869.49	25.69	-2753.32
7545.00	90.04	268.28	4869.06	23.13	-2848.28
7640.00	90.22	266.37	4868.84	18.70	-2943.17
7735.00	91.45	266.48	4867.46	12.78	-3037.98
7830.00	89.60	264.57	4866.59	5.36	-3132.68
7893.00	90.04	264.88	4866.78	-0.43	-3195.41
7988.00	91.45	266.69	4865.55	-7.41	-3290.14
8052.00	89.96	265.89	4864.76	-11.55	-3354.00
8147.00	91.98	266.55	4863.15	-17.81	-3448.77
8242.00	90.31	267.23	4861.25	-22.96	-3543.61
8337.00	91.98	267.78	4859.36	-27.10	-3638.49
8432.00	89.34	266.81	4858.26	-31.58	-3733.37
8496.00	89.08	266.55	4859.14	-35.29	-3797.26
8591.00	89.34	266.81	4860.45	-40.79	-3892.09
8612.00	89.78	266.81	4860.62	-41.96	-3913.06
8680.00	89.78	266.81	4860.88	-45.74	-3980.95