

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

S

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
Devon Energy Production Co., LP

3 Address 20 North Broadway
OKC, OK 73102

3a Phone No (include area code)
(405)-552-7802

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

SL: 460' FNL & 2630' FEL

At surface

PP: 720' FNL & 1705' FWL

At top prod. interval reported below

At total depth ABHL: 737' FNL & 1636' FWL

AUG 18 2008

OCD-ARTESIA

5 Lease Serial No
NMNM-71752

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No

8 Lease Name and Well No.
Rifleman 6 Federal Com 3

9 AFI Well No
30-015-36205

10 Field and Pool or Exploratory
Happy Valley; Morrow

11 Sec, T, R, M, on Block and
Survey or Area
Sec 6-T22S-R26E

12 County or Parish
Eddy

13 State
NM

14 Date Spudded
04/08/2008

15 Date T D Reached
05/15/2008

16 Date Completed
☐ D & A ☒ Ready to Prod

17 Elevations (DF, RKB, RT, GL)*
3409' GL

18 Total Depth MD
TVD 11,400'

19 Plug Back T D MD
TVD 11,314'

20 Depth Bridge Plug Set MD
TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL, BHC, IND, HNGRS/GR, HPL

22 Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
26"	20" J-55	94#		500'		900 sx Cl C	315 sx to pit	Surface	
12 1/4"	9 5/8" J-55	40#		2215'		1135 sx Cl C		Surface	
8 3/4"	5 1/2" P-110	17#		11400'		3035 sx Cl C	33 sx to pit	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 3/8"	10,942'	10,914'						

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow	10980	11082	10890-11082		55	Producing
B)						
C)						
D)						

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
10890 - 11082	

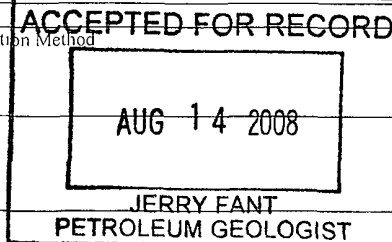
28 Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
06/16/08	06/16/08	24	→	6	3370	3			Flowing
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
18/64	3260	0	→					Producing	

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

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



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	
			→						

29 Disposition of Gas (Solid, 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	Descriptions, Contents, etc	Name	Top
					Meas Depth
				Seven Rivers Delaware Sd	500' 2190'
				Bone Springs Lime 3rd Bone Springs Sd	4578' 7849'
				Wolfcamp Lm Strawn Lm	8220' 9695'
				Atoka Morrow	10027' 10488'
				Middle Morrow Lime Lower Morrow	10775' 11007'
				Barnett Shale	11120'

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

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) _____

Title Sr. Staff Engineering Technician

Signature _____

Date 07/01/2008

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

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: RIFLEMAN 6 FED COM 3		Field: HAPPY VALLEY	
Location: 480' FNL & 2630' FWL; SEC 6-T22S-R26E		County: EDDY	State: NM
Elevation: 3426' KB; 3409' GL		Spud Date: 4/8/08	Compl Date:
API#: 30-015-36205	Prepared by: Ronnie Slack	Date: 7/3/08	Rev:

26" hole
20", 94#, J55, BTC, @ 500'
 Cmt'd w/900 sx Cmt to surface

12-1/4" hole
9-5/8", 40#, J55, LT&C @ 2,215'
 Cmt'd w/1885 sx. Cmt to surface

DV tool @ 4,007'

DV tool @ 8,478'

2-3/8" Production tubing

Arrowset Packer @ 10,912'

3-1/8" TCP Gun Assembly

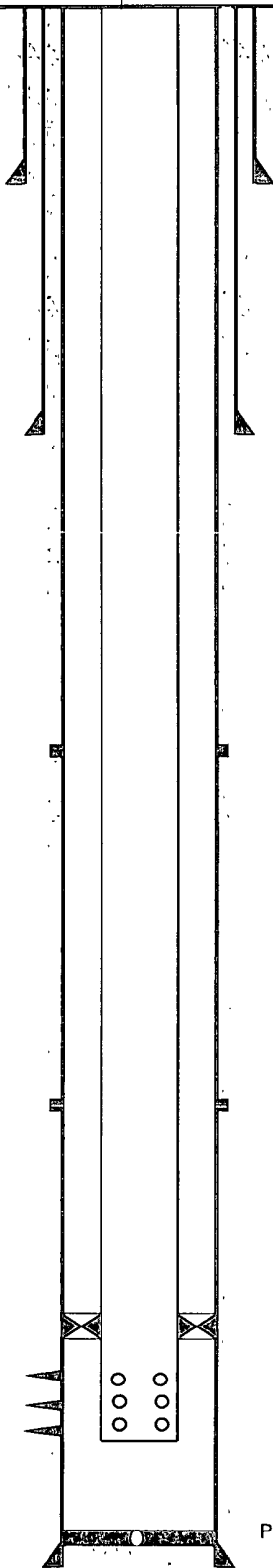
PBTD @ 11,300'

MORROW (6/10/08) 3 spf, 120°
 10980' - 10985'
 11016' - 11030'
 11076' - 11082'

6/21/08 6408 Mcfd, 14 BO, 3 BW, 3050# FTP

8-3/4" Hole
5-1/2", 17#, P110, LTC, @ 11,400'
 Cmt'd w/3035 sx to surface

11,400' TD



**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

Well Name and Num: Rifleman 6 Fed Com 3
Location: Sec 6, T22S, R26E
Operator: Devon Energy
Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.92	217	9.10	5328	8.80	7539	6.20	9947
3.67	868	9.20	5582	8.00	7724	5.10	10070
1.70	962	9.30	5646	10.20	8033	4.40	10132
3.60	1154	9.40	5773	9.60	8034	4.60	10256
2.90	1282	8.90	5965	8.60	8218	4.50	10320
2.29	1473	9.80	6028	7.30	8403	4.60	10441
0.69	2406	9.40	6153	8.00	8526	4.30	10565
0.39	2881	7.70	6278	9.50	8647	4.00	10627
1.00	3358	9.60	6400	10.40	8773	3.90	10655
0.56	3928	9.90	6463	10.10	8834	3.70	10846
1.15	4475	8.50	6652	9.70	8958	1.70	11365
1.20	5464	8.40	6777	9.00	143		
2.60	4660	8.80	6840	8.10	8266		
4.60	4724	9.40	6903	6.90	9390		
6.40	4787	9.90	7028	7.50	9514		
8.00	4832	8.60	7104	8.30	9636		
9.90	5138	9.10	7353	7.4	9699		
8.50	5265	8.90	7477	7.2	9761		

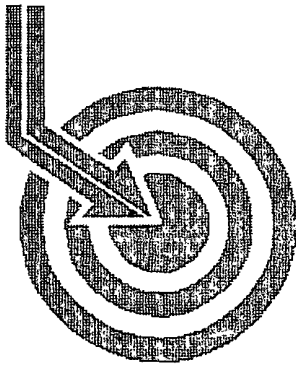
Drilling Contractor: McVay Drilling Company

By: Robert H. [Signature]

Subscribed and sworn to before me this 27th day of May, 2008

[Signature]
Notary Public

My Commission Expires: 8/6/09 Lea County, New Mexico



Scientific Drilling

DEVON ENERGY

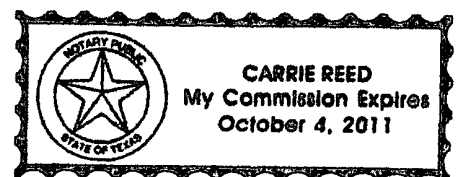
Field: Happy Valley
Site: Eddy County, NM
Well: Rifleman 6 Federal Com #3
Wellpath: VH - Job #32K0408272
Survey: 04/21/08

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

.....*L. Wharton*..... Company Representative

Notorized this date 6th of June, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: DEVON ENERGY	Date: 06/05/2008	Time: 16:07:14	Page: 1
Field: Happy Valley	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Rifleman 6 Federal Com #3	Section (VS) Reference:	Well (0.00N,0.00E,254.52Azi)	
Wellpath: VH - Job #32K0408272	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 04/21/08	Start Date: 04/21/2008
'KSRG 0'-44	
Company: Scientific Drilling Internatio	Engineer: Guebara/Lanier w/GeoGyro
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

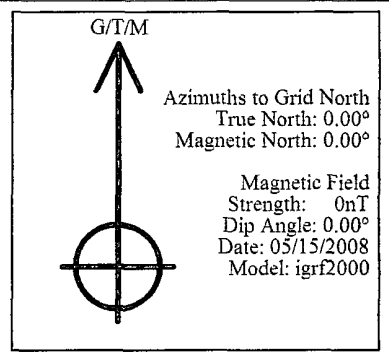
Survey

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.62	129.49	100.00	-0.31	-0.34	0.42	0.62	0.54	129.49
200.00	0.56	151.87	199.99	-0.73	-1.12	1.07	0.24	1.55	136.41
300.00	1.19	164.86	299.98	-0.83	-2.55	1.57	0.66	3.00	148.45
400.00	0.99	201.09	399.96	-0.31	-4.36	1.53	0.70	4.62	160.70
500.00	0.81	225.31	499.95	0.82	-5.66	0.71	0.42	5.71	172.81
600.00	1.29	227.91	599.93	2.45	-6.92	-0.62	0.48	6.94	185.15
700.00	1.76	224.78	699.90	4.79	-8.76	-2.54	0.48	9.12	196.17
800.00	2.37	231.67	799.83	8.03	-11.13	-5.24	0.66	12.31	205.22
900.00	2.60	231.71	899.74	12.02	-13.82	-8.65	0.23	16.30	212.03
1000.00	2.60	239.01	999.64	16.30	-16.39	-12.37	0.33	20.54	217.04
1100.00	2.42	241.42	1099.54	20.54	-18.57	-16.17	0.21	24.62	221.05
1200.00	2.46	243.27	1199.45	24.70	-20.55	-19.94	0.09	28.63	224.14
1300.00	2.15	239.16	1299.37	28.61	-22.47	-23.47	0.35	32.49	226.24
1400.00	2.32	239.21	1399.29	32.38	-24.47	-26.82	0.17	36.30	227.62
1500.00	2.42	249.92	1499.21	36.43	-26.23	-30.54	0.45	40.26	229.34
1600.00	2.03	250.34	1599.13	40.30	-27.55	-34.19	0.39	43.91	231.13
1700.00	1.45	257.75	1699.09	43.33	-28.42	-37.09	0.62	46.73	232.54
1800.00	1.63	251.22	1799.05	46.02	-29.14	-39.68	0.25	49.23	233.70
1900.00	1.30	250.80	1899.02	48.57	-29.97	-42.09	0.33	51.68	234.55
2000.00	1.32	250.56	1998.99	50.85	-30.73	-44.25	0.02	53.88	235.22
2100.00	1.12	248.82	2098.97	52.97	-31.47	-46.25	0.20	55.94	235.77
2200.00	0.85	247.24	2198.95	54.68	-32.11	-47.84	0.27	57.62	236.14
2300.00	1.02	247.54	2298.94	56.30	-32.73	-49.35	0.17	59.22	236.44
2400.00	1.20	244.64	2398.92	58.21	-33.52	-51.12	0.19	61.13	236.74
2500.00	1.03	243.98	2498.90	60.13	-34.37	-52.87	0.17	63.06	236.98
2600.00	1.13	246.73	2598.88	61.99	-35.15	-54.59	0.11	64.93	237.22
2700.00	1.35	239.83	2698.86	64.11	-36.13	-56.51	0.27	67.07	237.41
2800.00	1.40	235.83	2798.83	66.40	-37.41	-58.54	0.11	69.47	237.42
2900.00	1.38	234.47	2898.80	68.69	-38.80	-60.53	0.04	71.90	237.34
3000.00	1.54	233.48	2998.77	71.08	-40.29	-62.59	0.16	74.44	237.23
3100.00	1.63	237.06	3098.73	73.69	-41.87	-64.86	0.13	77.20	237.16
3200.00	1.87	244.92	3198.69	76.65	-43.33	-67.54	0.34	80.24	237.31
3300.00	1.99	241.21	3298.63	79.95	-44.86	-70.54	0.17	83.59	237.54
3400.00	2.04	233.42	3398.57	83.30	-46.76	-73.49	0.28	87.10	237.53
3500.00	1.97	226.00	3498.51	86.47	-49.01	-76.15	0.27	90.56	237.23
3600.00	2.06	226.67	3598.44	89.57	-51.44	-78.70	0.09	94.02	236.83
3700.00	1.85	224.01	3698.39	92.55	-53.83	-81.12	0.23	97.36	236.43
3800.00	1.63	229.03	3798.34	95.22	-55.93	-83.32	0.27	100.35	236.13
3900.00	1.64	231.02	3898.30	97.82	-57.76	-85.51	0.06	103.19	235.96
4000.00	1.42	232.03	3998.26	100.28	-59.42	-87.60	0.22	105.85	235.85
4100.00	1.45	242.43	4098.23	102.66	-60.77	-89.69	0.26	108.34	235.88
4200.00	1.28	236.10	4198.20	104.96	-61.98	-91.74	0.23	110.72	235.96
4300.00	1.31	240.01	4298.18	107.12	-63.17	-93.66	0.09	112.97	236.00
4400.00	1.28	244.17	4398.15	109.33	-64.23	-95.66	0.10	115.22	236.12
4475.00	1.15	240.34	4473.14	110.88	-64.97	-97.06	0.20	116.80	236.20



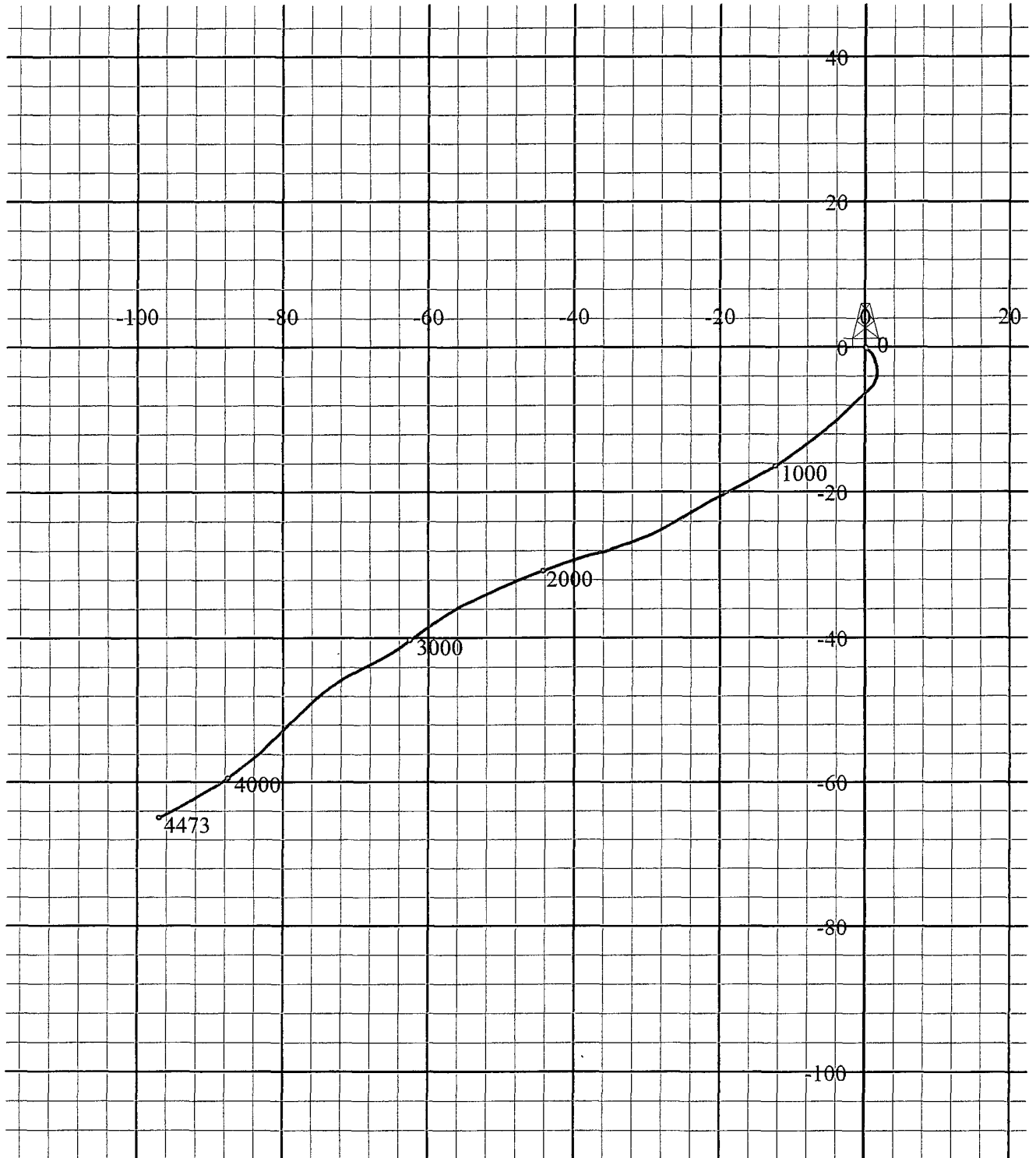
**Scientific
Drilling**

Field: Happy Valley
Site: Eddy County, NM
Well: Rifleman 6 Federal Com #3
Wellpath: VH - Job #32K0408272
Survey: 04/21/08



West(-)/East(+) [20ft/in]

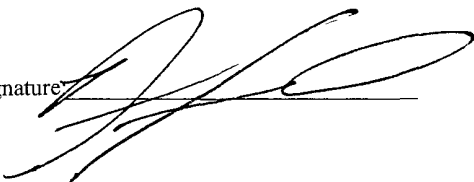
South(-)/North(+) [20ft/in]





To the best of my knowledge the surveys listed for Devon Energy--from 4564.00' MD to 10701.00' MD--are accurate and true surveys.

Daren Schiele
MWD Coordinator
Quantum Drilling Motors

Signature:  Date: 7/28/08

Kristy Ryb Commission Exp. April 2009

"All equipment and services provided by Quantum Drilling Motors are subject to the General Terms and Conditions accompanying our Delivery and Field Tickets."

4005 SOUTH THOMAS ROAD • OKLAHOMA CITY, OK 73179
OFFICE (405) 789-3499 • FAX (405) 789-4939 • www.quantumdm.com

devon

Project Eddy County (NM83E)
Site Sec 6-T22S-R26E
Well Rifleman 6-3
Wellbore Wellbore #1
Design 04-22-08

WELL DETAILS Rifleman 6 Fed Com #3

+N/-S	+E/-W	Northing	Ground Level	0 0	Latitude	Longitude	Slot
0 0	0 0	519130 89	541656 56		32° 25' 37 765 N	104° 19' 56 277 W	

QUANTUM
DRILLING MOTORS
& DIRECTIONAL SERVICES

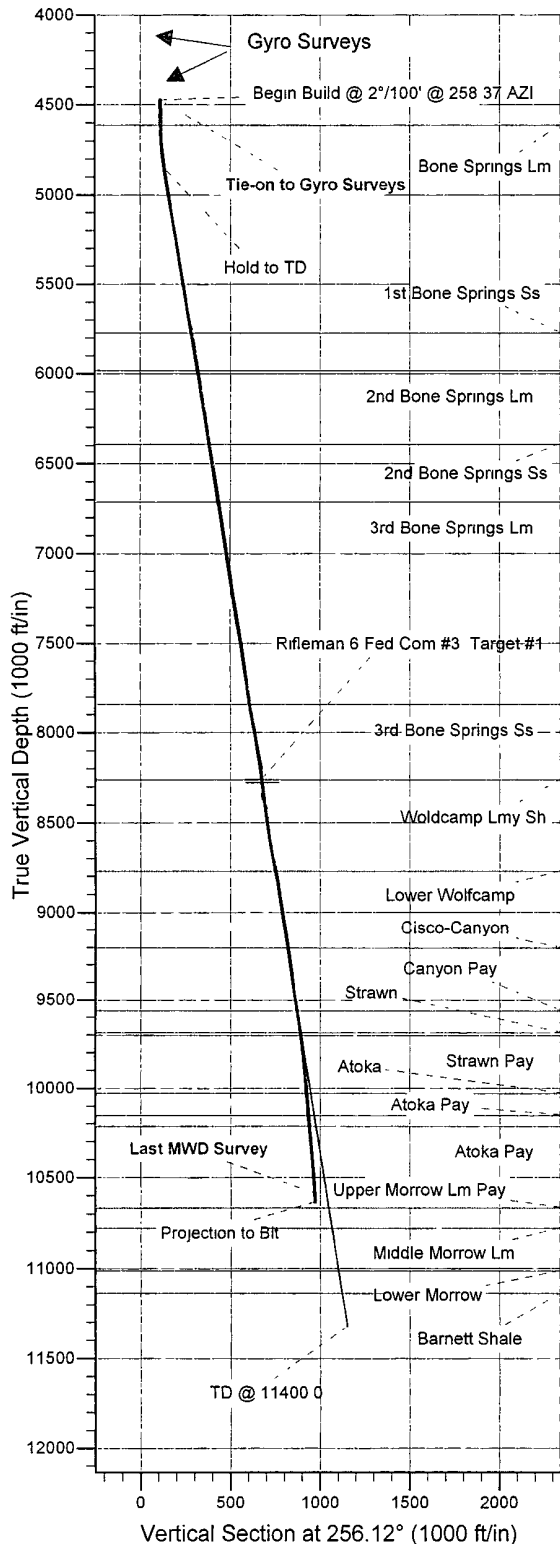
WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Rifleman 6 Fed Com #3 Target #1	8260 0	-180 0	-650 0	518950 89	541006 56	32° 25' 35 984 N	104° 20' 3 681 W	Point



Azimuths to True North
Total Correction 8.40°

Magnetic Field
Strength 49072.5nT
Dip Angle 80.34°
Date 2007/12/12
Model BGGM2008



ANNOTATIONS

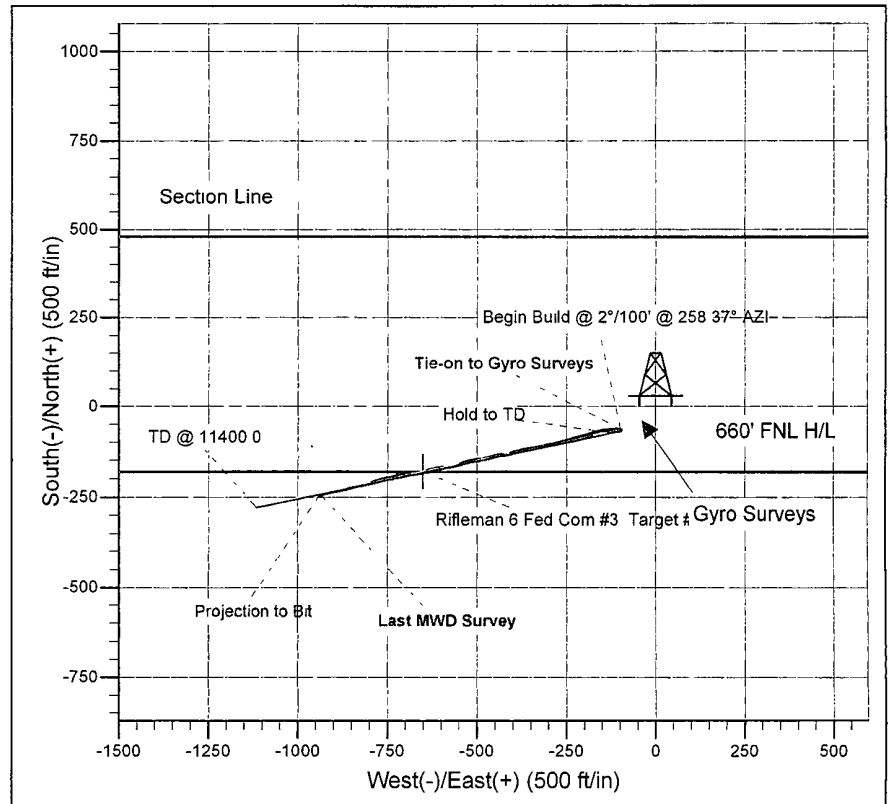
TVD	MD	Annotation
4473 1	4475 0	Begin Build @ 2°/100' @ 258.37 AZI
4473 1	4475 0	Tie-on to Gyro Surveys
4861 1	4864 7	Hold to TD
11318 1	11400 0	TD @ 11400.0

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4610 0	4612 0	Bone Springs Lm
5770 0	5784 7	1st Bone Springs Ss
5980 0	5997 2	2nd Bone Springs Lm
6390 0	6412 2	2nd Bone Springs Ss
6710 0	6736 1	3rd Bone Springs Lm
7840 0	7879 8	3rd Bone Springs Ss
8260 0	8304 9	Woldcamp Lmy Sh
8770 0	8821 0	Lower Wolfcamp
9200 0	9256 3	Cisco-Canyon
9560 0	9620 6	Canyon Pay
9685 0	9747 1	Strawn
9700 0	9762 3	Strawn Pay
10025 0	10091 3	Atoka
10150 0	10217 8	Atoka Pay
10210 0	10278 5	Atoka Pay
10665 0	10739 0	Upper Morrow Lm Pay
10775 0	10850 3	Middle Morrow Lm
11010 0	11088 2	Lower Morrow
11135 0	11214 7	Barnett Shale

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
4475 0	1 15	240.34	4473 1	-65 0	-87.1	0 00	0 00	109.8	
4864 7	8 88	258.37	4861 1	-73 0	-130.0	2 00	20.63	143.7	
8304 9	8 88	258.37	8260 0	-180 0	-650 0	0 00	0 00	674.2	Rifleman 6 Fed Com #3 Target #1
11400 0	8 88	258.37	11318 1	-276.2	-1117.8	0 00	0 00	1151.4	





Job Number: ☐
 Company: ☐
 Lease/Well: ☐
 Location: ☐
 Rig Name: ☐
 RKB: ☐
 G.L. or M.S.L.: ☐

State/Country: ☐
 Declination: ☐
 Grid: ☐
 File name: E:\RIFLEMAN.SVY
 Date/Time: 09-May-08 / 11:33
 Curve Name: As Drilled

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 256.12
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
4475.00	1.15	240.34	4473.13	-64.97	-97.06	109.81	116.80	236.20	.00
4564.00	1.20	249.30	4562.11	-65.74	-98.71	111.60	118.60	236.34	.21
4596.00	1.40	265.20	4594.10	-65.89	-99.41	112.32	119.27	236.46	1.28
4628.00	1.80	272.70	4626.09	-65.90	-100.30	113.18	120.01	236.69	1.41
4660.00	2.60	275.30	4658.07	-65.81	-101.53	114.35	120.99	237.05	2.52
4692.00	3.60	278.10	4690.02	-65.60	-103.24	115.97	122.32	237.57	3.16
4724.00	4.60	277.80	4721.94	-65.29	-105.51	118.09	124.08	238.25	3.13
4756.00	5.70	277.30	4753.81	-64.91	-108.36	120.77	126.31	239.08	3.44
4787.00	6.40	275.00	4784.63	-64.56	-111.61	123.84	128.94	239.95	2.39
4819.00	7.30	271.60	4816.41	-64.35	-115.42	127.48	132.14	240.86	3.08
4852.00	8.00	270.00	4849.11	-64.29	-119.81	131.73	135.97	241.78	2.22
4883.00	8.70	268.00	4879.78	-64.38	-124.31	136.12	139.99	242.62	2.44
4947.00	9.50	265.70	4942.98	-64.94	-134.41	146.07	149.28	244.21	1.37
5010.00	10.20	259.50	5005.05	-66.35	-145.08	156.76	159.53	245.43	2.02
5074.00	10.40	256.20	5068.02	-68.76	-156.26	168.19	170.72	246.25	.97
5138.00	9.90	255.30	5131.02	-71.53	-167.20	179.47	181.85	246.84	.82
5201.00	8.90	252.40	5193.17	-74.38	-177.08	189.75	192.07	247.22	1.76
5265.00	8.50	254.20	5256.44	-77.16	-186.35	199.42	201.69	247.51	.76
5328.00	9.10	257.30	5318.69	-79.53	-195.69	209.05	211.23	247.88	1.21
5392.00	8.80	257.40	5381.91	-81.71	-205.40	219.01	221.06	248.31	.47
5456.00	9.20	256.00	5445.13	-84.01	-215.15	229.02	230.97	248.67	.71
5519.00	9.30	252.50	5507.31	-86.76	-224.89	239.13	241.04	248.90	.91
5582.00	9.20	251.80	5569.49	-89.87	-234.53	249.24	251.16	249.03	.24
5646.00	9.30	252.50	5632.66	-93.02	-244.32	259.50	261.43	249.16	.24
5710.00	9.40	251.20	5695.81	-96.26	-254.20	269.87	271.81	249.26	.37

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
5773.00	9.40	255.30	5757.96	-99.22	-264.05	280.14	282.07	249.40	1.06
5837.00	8.90	255.50	5821.15	-101.79	-273.89	290.31	292.20	249.61	.78
5901.00	8.60	256.10	5884.40	-104.18	-283.33	300.05	301.88	249.81	.49
5965.00	8.90	260.70	5947.66	-106.13	-292.86	309.77	311.50	250.08	1.19
6028.00	9.80	260.10	6009.82	-107.84	-302.95	319.98	321.57	250.41	1.44
6089.00	9.70	258.70	6069.94	-109.74	-313.11	330.29	331.78	250.69	.42
6153.00	9.30	258.60	6133.06	-111.81	-323.46	340.84	342.25	250.93	.63
6215.00	8.60	258.80	6194.31	-113.70	-332.92	350.48	351.80	251.14	1.13
6278.00	7.70	260.00	6256.67	-115.35	-341.70	359.39	360.65	251.35	1.45
6339.00	8.80	263.10	6317.04	-116.62	-350.36	368.10	369.26	251.59	1.94
6400.00	9.60	260.00	6377.25	-118.07	-360.00	377.81	378.87	251.84	1.54
6463.00	9.90	258.60	6439.34	-120.05	-370.48	388.46	389.45	252.05	.61
6526.00	9.70	253.40	6501.42	-122.64	-380.88	399.17	400.13	252.15	1.44
6588.00	9.30	253.40	6562.57	-125.56	-390.68	409.40	410.36	252.18	.65
6652.00	8.50	254.70	6625.80	-128.29	-400.20	419.29	420.26	252.23	1.29
6715.00	8.70	256.20	6688.09	-130.65	-409.32	428.71	429.66	252.30	.48
6777.00	8.40	256.50	6749.40	-132.83	-418.28	437.93	438.86	252.38	.49
6840.00	8.80	261.10	6811.70	-134.65	-427.51	447.33	448.21	252.52	1.26
6903.00	9.40	265.10	6873.90	-135.83	-437.40	457.21	458.00	252.75	1.38
6969.00	9.80	262.40	6938.98	-137.03	-448.34	468.12	468.81	253.00	.91
7028.00	9.90	252.40	6997.12	-139.23	-458.15	478.17	478.84	253.10	2.90
7104.00	8.60	247.80	7072.13	-143.35	-469.64	490.31	491.03	253.03	1.97
7167.00	7.80	258.60	7134.49	-145.98	-478.19	499.25	499.98	253.02	2.75
7228.00	8.40	267.60	7194.88	-146.98	-486.70	507.75	508.41	253.20	2.30
7291.00	9.50	266.50	7257.11	-147.49	-496.49	517.37	517.93	253.45	1.77
7353.00	9.10	261.20	7318.30	-148.56	-506.44	527.29	527.78	253.65	1.52
7416.00	9.00	258.30	7380.51	-150.32	-516.19	537.18	537.63	253.76	.74
7477.00	8.90	256.40	7440.77	-152.40	-525.45	546.66	547.10	253.83	.51
7539.00	8.80	250.60	7502.03	-155.10	-534.58	556.18	556.63	253.82	1.45
7601.00	8.70	250.60	7563.31	-158.23	-543.48	565.57	566.04	253.77	.16
7662.00	8.10	249.20	7623.66	-161.29	-551.85	574.43	574.94	253.71	1.04
7724.00	8.00	253.30	7685.05	-164.08	-560.06	583.07	583.60	253.67	.94
7786.00	8.60	256.30	7746.40	-166.42	-568.70	592.02	592.55	253.69	1.19
7848.00	8.70	263.40	7807.69	-168.06	-577.86	601.30	601.80	253.78	1.73
7909.00	9.60	264.80	7867.92	-169.05	-587.51	610.91	611.35	253.95	1.52
7971.00	9.30	262.10	7929.08	-170.20	-597.62	621.00	621.39	254.10	.86
8033.00	10.20	263.10	7990.18	-171.55	-608.03	631.43	631.77	254.24	1.48
8094.00	9.60	259.70	8050.27	-173.11	-618.40	641.87	642.17	254.36	1.37
8156.00	9.80	258.20	8111.39	-175.11	-628.65	652.30	652.59	254.43	.52
8218.00	8.60	252.90	8172.59	-177.56	-638.25	662.21	662.49	254.45	2.37
8279.00	8.30	253.00	8232.93	-180.18	-646.82	671.16	671.45	254.43	.49
8341.00	7.90	260.00	8294.31	-182.23	-655.29	679.87	680.16	254.46	1.72
8403.00	7.30	259.60	8355.76	-183.68	-663.36	688.06	688.32	254.52	.97
8464.00	7.60	266.00	8416.25	-184.66	-671.20	695.90	696.14	254.62	1.45
8526.00	8.00	267.70	8477.68	-185.12	-679.60	704.17	704.36	254.76	.74

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
8588.00	8.40	267.70	8539.04	-185.48	-688.44	712.83	712.98	254.92	.65
8649.00	9.50	265.20	8599.30	-186.08	-697.91	722.16	722.29	255.07	1.91
8711.00	10.00	257.50	8660.41	-187.67	-708.26	732.60	732.70	255.16	2.25
8773.00	10.40	254.30	8721.43	-190.35	-718.90	743.57	743.68	255.17	1.12
8834.00	10.10	255.80	8781.45	-193.15	-729.39	754.43	754.53	255.17	.66
8896.00	9.60	257.90	8842.54	-195.57	-739.71	765.03	765.13	255.19	.99
8958.00	9.70	256.50	8903.66	-197.87	-749.85	775.42	775.52	255.22	.41
9019.00	9.30	256.30	8963.82	-200.24	-759.63	785.49	785.58	255.23	.66
9081.00	8.30	257.40	9025.09	-202.40	-768.87	794.97	795.06	255.25	1.64
9143.00	9.00	251.70	9086.39	-204.90	-777.84	804.28	804.38	255.24	1.78
9203.00	8.70	252.00	9145.68	-207.78	-786.61	813.49	813.59	255.20	.51
9266.00	8.10	249.00	9208.00	-210.84	-795.29	822.64	822.76	255.15	1.18
9328.00	8.00	256.90	9269.39	-213.38	-803.57	831.29	831.42	255.13	1.79
9390.00	6.90	263.20	9330.87	-214.80	-811.47	839.30	839.42	255.17	2.21
9452.00	7.50	259.00	9392.38	-216.02	-819.14	847.04	847.14	255.23	1.29
9514.00	7.50	259.00	9453.85	-217.56	-827.08	855.12	855.22	255.26	.00
9575.00	8.20	259.90	9514.28	-219.08	-835.27	863.44	863.53	255.30	1.17
9636.00	8.30	255.10	9574.65	-220.98	-843.81	872.18	872.26	255.32	1.14
9702.00	7.40	255.30	9640.03	-223.28	-852.52	881.19	881.28	255.32	1.36
9761.00	7.20	249.70	9698.55	-225.53	-859.67	888.67	888.76	255.30	1.25
9823.00	6.90	254.30	9760.08	-227.88	-866.90	896.25	896.35	255.27	1.03
9885.00	6.50	260.10	9821.66	-229.50	-873.94	903.47	903.57	255.29	1.27
9947.00	6.20	259.70	9883.28	-230.70	-880.69	910.32	910.40	255.32	.49
10009.00	5.80	256.60	9944.94	-232.02	-887.03	916.79	916.87	255.34	.83
10070.00	5.10	257.60	10005.66	-233.32	-892.68	922.58	922.67	255.35	1.16
10132.00	4.40	259.90	10067.45	-234.33	-897.71	927.71	927.79	255.37	1.17
10194.00	4.50	266.00	10129.26	-234.91	-902.48	932.48	932.55	255.41	.78
10256.00	4.60	256.40	10191.07	-235.67	-907.32	937.36	937.43	255.44	1.24
10317.00	4.40	253.10	10251.88	-236.92	-911.94	942.15	942.21	255.44	.54
10379.00	4.50	253.70	10313.69	-238.30	-916.55	946.95	947.02	255.43	.18
10441.00	4.60	256.70	10375.50	-239.55	-921.30	951.87	951.94	255.42	.42
10503.00	4.30	257.60	10437.31	-240.62	-925.99	956.68	956.74	255.43	.50
10565.00	4.30	253.50	10499.14	-241.78	-930.49	961.32	961.39	255.43	.50
10627.00	4.00	252.30	10560.97	-243.10	-934.78	965.80	965.87	255.42	.50
Final Survey									
10655.00	3.90	250.20	10588.91	-243.72	-936.61	967.72	967.80	255.41	.63
Bit Projection									
10701.00	3.80	251.00	10634.80	-244.75	-939.52	970.80	970.87	255.40	.25