

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No 1004-0137
Expires: March 31, 2007

JUL 26 2011

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

Farming
bureau of

5 Lease Serial No.
SF-078894011
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.
Rosa Unit

8 Well Name and No.
Rosa Unit #383

9 API Well No
30-039-29367

10. Field and Pool or Exploratory Area
Basin Fruitland Coal

11. Country or Parish, State
Rio Arriba

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Williams Production Company, LLC

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

505-634-4206

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sur 1031' FSL & 1107' FEL, BHL 1200' FNL & 900' FEL, sec 29, T31N, R4W

12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to
Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☒ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams plans to re enter this existing wellbore and convert this well from a vertical cavitation to a horizontal completion as per attached plat, operation plan and directional plan

* C-102 shows resurveyed SHL

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Ben Mitchell

Title Regulatory Specialist

Signature

Date 7/26/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JUL 27 2011

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

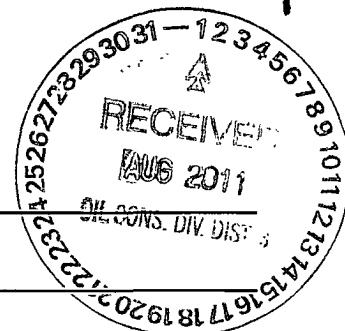
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

Hold C104

for Directional Survey
and "As Drilled" plat

Hold C104
for Directional Survey
and "As Drilled" plat





WILLIAMS PRODUCTION COMPANY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 7/26/2011

WELLNAME: Rosa Unit #383 **FIELD:** Basin Fruitland Coal

BH LOCATION: NENE Sec. 29-T31N-4W **SURFACE:** USFS
Rio Arriba, NM

ELEVATION: 6,633' GR **MINERALS:** Fed

TOTAL DEPTH: 6,334' **LEASE #** NMSF-078894

API#: 30-039-29367

I. **GEOLOGY:** Surface formation - San Jose

A. **FORMATION TOPS:** (KB)

NAME		TVD	MD
Kirtland		2,948	2,498
Fruitland		3,306	3,326
Top Target Coal		3,460	3,645
Bottom Target Coal		3,489	
Picture Cliffs		3,489	
TD		3,464	6,334

B. **LOGGING PROGRAM:** None

C. **NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

D. **MUD LOGGING PROGRAM:** Mud logger will be on location from mill out to TD.

II. **PREPARATORY WORK**

- A. MIRU w/ workover rig
- B. POOH/LD rods and pump
- C. POOH/LD production tbg
- D. Set retrievable bridge plug at 3,055' inside 7" casing
- E. Pressure test 7" csg and bridge plug to 1,500 psi for 30 minutes
- F. RDMO

III. **DRILLING**

- A. **MUD PROGRAM:** LSND mud during mill out and while drilling curve. Treat for lost circulation as necessary. Notify Engineering of any mud losses.

B. DRILLING FLUID: Horizontal section will be drilled with produced water.

C. BOP TESTING: While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

IV. MATERIALS

A. CASING PROGRAM (as is):

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	325'	9-5/8"	36# K-55
Intermediate	8-3/4"	3,368'	7"	20# K-55
Prod. Liner	6-1/4"	3,296' - 3,585'	5-1/2"	15.5# N-80

B. CASING PROGRAM (after sidetrack):

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	325'	9-5/8"	36# K-55
Intermediate	8-3/4"	3,368'	7"	20# K-55
Prod. Liner (motherbore)	6-1/4"	3,296' - 3,585'	5-1/2"	15.5# N-80
Prod. Liner (sidetrack)	6-1/4"	~3,060' - 6,334'	4-1/2"	11.6# K-55

- Sidetrack production liner is pre-perforated and will be dropped off with top of liner in open hole 5-10' outside of window.

C. FLOAT EQUIPMENT:

- PRODUCTION LINER (sidetrack): No centralization

D. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

- PRODUCTION LINER (sidetrack): Open hole completion. No cement.

V. COMPLETION

A. STIMULATION

- No stimulation

B. RUNNING TUBING

- Fruitland Coal: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing at approximately 3,100' MD inside of motherbore.

Brian Alleman
Drilling Engineer II



Williams Energy

Rosa Unit #383 Stk
Sec29 T31N-R4W - 383

Rio Arriba Co. NM

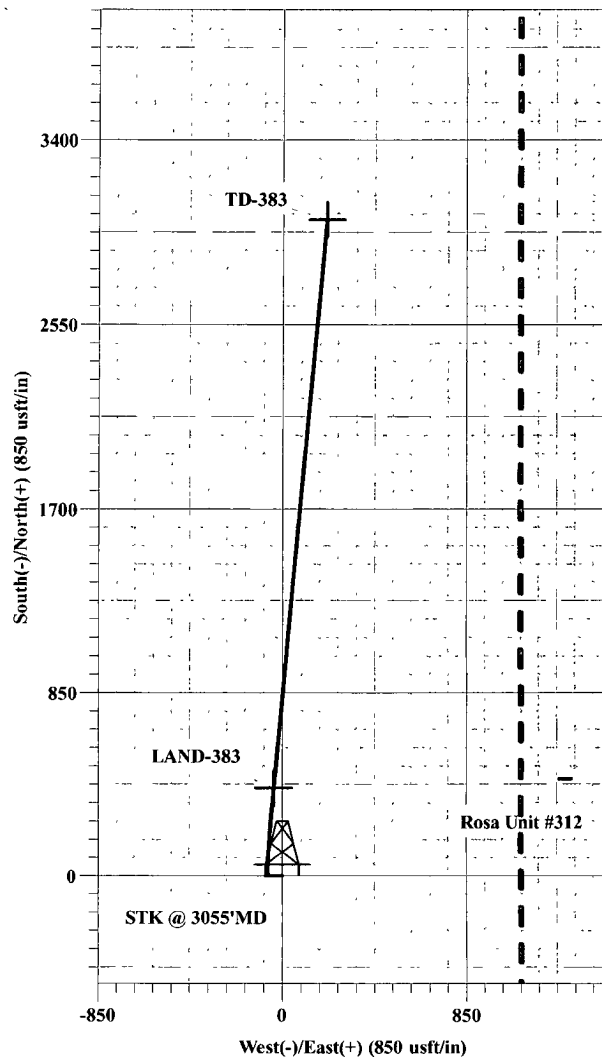
GL: 6633' KB: 14'



A Schlumberger Company

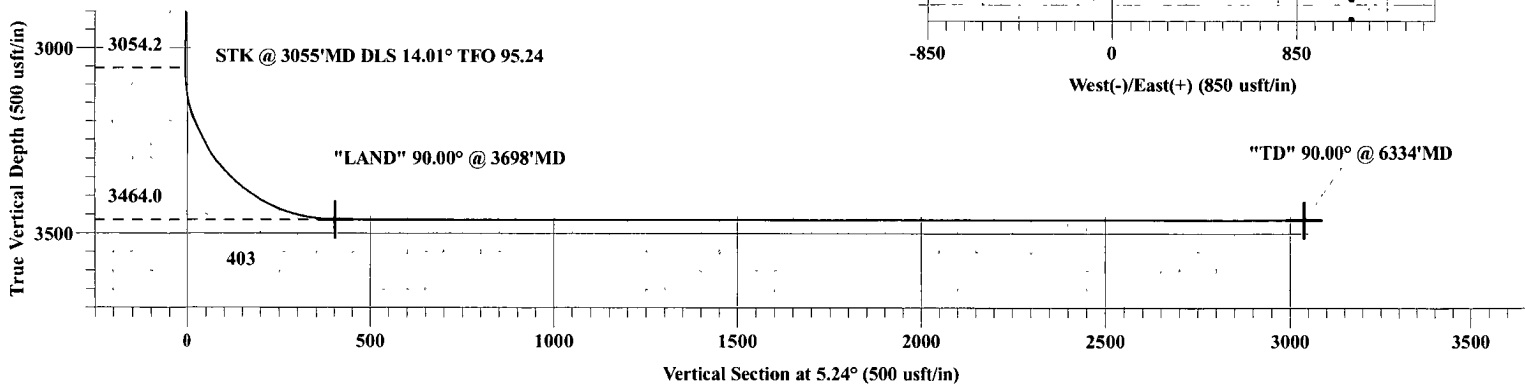
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-383	3464.0	408.3	-39.0	2136536.88	200872.61	Point
TD-383	3464.0	3032.8	201.8	2139158.67	201141.54	Point



WELL DETAILS: Rosa Unit #383 Stk

Northing	Easting	Latitude	Longitude
2136128.19	200907.24	36° 51' 58.356 N	107° 16' 20.820 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
3055.0	1.56	270.00	3054.2	0.0	-65.3	0.00	0.00	-6.0	
3698.4	90.00	5.24	3464.0	408.3	-39.0	14.01	95.24	403.0	
6334.0	90.00	5.24	3464.0	3032.8	201.8	0.00	0.00	3038.6	TD-383

Plan: Design #1 (Rosa Unit #383 Stk/STK)

Created By: Frank C. Scardino

Date: 7/20/2011

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec29 T31N-R4W -383
Company:	Williams Energy	TVD Reference:	WELL @ 6647.0usft (Original Well Elev)
Project:	Rio Arriba Co NM	MD Reference:	WELL @ 6647.0usft (Original Well Elev)
Site:	Sec29 T31N-R4W -383	North Reference:	True
Well:	Rosa Unit #383 Stk	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK		
Design:	Design #1		

Project	Rio Arriba Co NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site:	Sec29 T31N-R4W -383		
Site Position:		Northing:	2,136,128 18 usft
From:	Lat/Long	Easting:	200,907 24 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 51' 58 356 N
		Longitude:	107° 16' 20.820 W
		Grid Convergence:	-0 61 °

Well:	Rosa Unit #383 Stk		
Well Position	+N/-S	0 0 usft	Northing: 2,136,128 18 usft
	+E/-W	0 0 usft	Easting: 200,907 24 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	Ground Level: 6,633 0 usft

Wellbore	STK				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	07/20/11	9 69	63 66	50,861

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	3,055 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0 0	0 0	0 0	5 24

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
3,055 0	1 56	270.00	3,054.2	0 0	-65 3	0 00	0 00	0 00	0 00	
3,698 4	90.00	5 24	3,464 0	408 3	-39 0	14 01	13 75	14 80	95 24	
6,334 0	90 00	5 24	3,464 0	3,032 8	201 8	0.00	0 00	0 00	0 00	TD-383

Planning Report

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Company:	Williams Energy	TVD Reference:	WELL @ 6647 0usft (Original Well Elev)
Project:	Rio Arriba Co NM	MD Reference:	WELL @ 6647 0usft (Original Well Elev)
Site:	Sec29 T31N-R4W - 383	North Reference:	True
Well:	Rosa Unit #383-Stk	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,055 0	1 56	270 00	3,054 2	0 0	-65 3	-6 0	0 14	0 14	0.00	
STK @ 3055'MD DLS 14.01° TFO 95.24										
3,075 0	3 08	334 97	3,074 2	0 5	-65 8	-5 5	14 01	7 60	324.84	
3,100 0	6 35	351 14	3,099 1	2 5	-66 3	-3 6	14 01	13 10	64 70	
3,125 0	9 79	356 20	3,123.8	6 0	-66 6	-0 2	14 01	13 73	20 21	
3,150 0	13 26	358 63	3,148 3	10 9	-66 8	4 8	14 01	13 88	9.74	
3,175 0	16 74	0 07	3,172.5	17 4	-66 9	11 2	14 01	13 93	5 75	
3,200 0	20 23	1 02	3,196 2	25 3	-66 8	19 1	14.01	13 96	3 81	
3,225 0	23.72	1 70	3,219 4	34 7	-66 6	28 5	14 01	13.97	2 73	
3,250 0	27.22	2 22	3,241 9	45 4	-66 2	39 2	14.01	13 98	2 06	
3,275 0	30 71	2 63	3,263 8	57 5	-65 7	51 3	14.01	13 99	1 63	
3,300 0	34 21	2 96	3,284 9	70 9	-65 0	64 7	14 01	13.99	1 32	
3,325 0	37 71	3 23	3,305.1	85 6	-64 3	79 4	14.01	14 00	1.10	
3,350 0	41 21	3 47	3,324 4	101 4	-63 3	95 2	14 01	14 00	0 94	
3,375 0	44 71	3 67	3,342 7	118 4	-62 3	112.3	14 01	14 00	0 82	
3,400 0	48 21	3 85	3,359 9	136 5	-61.1	130 4	14 01	14 00	0 72	
3,425 0	51.71	4.02	3,376 0	155 6	-59 8	149 5	14 01	14 00	0 65	
3,450 0	55 21	4 16	3,390 9	175 6	-58 3	169 6	14.01	14 00	0 59	
3,475 0	58 71	4 30	3,404 5	196 5	-56 8	190 5	14.01	14.00	0 54	
3,500 0	62 21	4 42	3,416 8	218 2	-55 1	212 3	14 01	14 00	0 50	
3,525 0	65 71	4 54	3,427 8	240 6	-53 4	234.7	14 01	14 00	0 47	
3,550 0	69 21	4 65	3,437.4	263 6	-51 5	257.8	14.01	14 00	0 45	
3,575 0	72 72	4 76	3,445.5	287 2	-49 6	281 5	14 01	14 00	0 43	
3,600 0	76 22	4 86	3,452 2	311 2	-47 6	305 5	14 01	14 00	0 41	
3,625 0	79 72	4 96	3,457 5	335 5	-45.5	330 0	14 01	14 00	0 40	
3,650 0	83 22	5 06	3,461 2	360 2	-43 3	354 7	14 01	14 00	0 39	
3,675 0	86 72	5 15	3,463 4	385 0	-41 1	379 6	14 01	14 00	0 38	
3,698 4	90.00	5 24	3,464 0	408.3	-39 0	403 0	14.01	14 00	0 38	
LAND 90.00° @ 3698'MD										
3,700 0	90 00	5 24	3,464 0	409.8	-38 8	404.6	0 00	0 00	0 00	
3,800 0	90 00	5 24	3,464 0	509 4	-29 7	504.6	0 00	0 00	0 00	
3,900 0	90 00	5 24	3,464 0	609 0	-20 6	604.6	0.00	0 00	0 00	
4,000 0	90 00	5 24	3,464 0	708 6	-11 4	704.6	0.00	0 00	0.00	
4,100 0	90 00	5 24	3,464 0	808 2	-2 3	804 6	0 00	0 00	0 00	
4,200 0	90 00	5 24	3,464 0	907 8	6 9	904 6	0.00	0 00	0 00	
4,300 0	90 00	5 24	3,464 0	1,007 3	16 0	1,004.6	0.00	0 00	0 00	
4,400 0	90 00	5 24	3,464 0	1,106 9	25 1	1,104 6	0 00	0 00	0 00	
4,500 0	90 00	5 24	3,464 0	1,206 5	34 3	1,204 6	0 00	0 00	0 00	
4,600 0	90 00	5 24	3,464 0	1,306 1	43.4	1,304 6	0 00	0 00	0 00	
4,700 0	90 00	5 24	3,464 0	1,405.7	52.5	1,404 6	0 00	0 00	0 00	
4,800 0	90 00	5 24	3,464 0	1,505 2	61 7	1,504 6	0 00	0 00	0 00	
4,900 0	90 00	5 24	3,464.0	1,604.8	70 8	1,604 6	0 00	0 00	0 00	
5,000 0	90 00	5 24	3,464 0	1,704 4	80 0	1,704 6	0 00	0 00	0 00	
5,100 0	90 00	5 24	3,464 0	1,804 0	89.1	1,804 6	0.00	0 00	0 00	
5,200 0	90 00	5 24	3,464.0	1,903 6	98 2	1,904 6	0.00	0 00	0 00	
5,300 0	90 00	5 24	3,464 0	2,003 2	107 4	2,004 6	0 00	0 00	0 00	
5,400 0	90 00	5 24	3,464 0	2,102 7	116 5	2,104 6	0 00	0 00	0 00	
5,500 0	90 00	5 24	3,464 0	2,202 3	125 6	2,204.6	0.00	0 00	0.00	
5,600 0	90 00	5 24	3,464 0	2,301 9	134 8	2,304 6	0.00	0 00	0 00	
5,700 0	90 00	5 24	3,464 0	2,401 5	143 9	2,404 6	0 00	0 00	0 00	
5,800 0	90 00	5 24	3,464 0	2,501 1	153 0	2,504 6	0 00	0 00	0 00	
5,900 0	90 00	5 24	3,464 0	2,600 6	162 2	2,604 6	0 00	0.00	0 00	
6,000 0	90 00	5 24	3,464.0	2,700 2	171 3	2,704 6	0 00	0 00	0 00	
6,100.0	90 00	5 24	3,464 0	2,799 8	180 5	2,804.6	0 00	0 00	0.00	

Planning Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Sec29 T31N-R4W- 383
Company:	Williams Energy	TVD Reference:	WELL @ 6647 0usft (Original Well Elev)
Project:	Rio Arriba Co. NM	MD Reference:	WELL @ 6647 0usft (Original Well Elev)
Site:	Sec29 T31N-R4W - 383	North Reference:	True
Well:	Rosa Unit #383 Stk	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,200 0	90 00	5 24	3,464 0	2,899 4	189 6	2,904 6	0 00	0 00	0 00
6,300 0	90 00	5 24	3,464 0	2,999 0	198 7	3,004 6	0 00	0 00	0 00
6,334 0	90 00	5 24	3,464 0	3,032 8	201 8	3,038 6	0 00	0 00	0 00
TD" 90.00° @ 6334'MD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD-383	0 00	0 00	3,464 0	3,032 8	201 8	2,139,158 67	201,141 54	36° 52' 28 344 N	107° 16' 18.336 W
- plan hits target center									
- Point									
LAND-383	0 00	0.00	3,464 0	408 3	-39 0	2,136,536 88	200,872 62	36° 52' 2 393 N	107° 16' 21 300 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,055 0	3,054 2	0.0	-65 3	STK @ 3055'MD DLS 14 01° TFO 95.24
3,698 4	3,464 0	408 3	-39 0	"LAND" 90 00° @ 3698'MD
6,334 0	3,464.0	3,032 8	201 8	"TD" 90 00° @ 6334'MD