

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

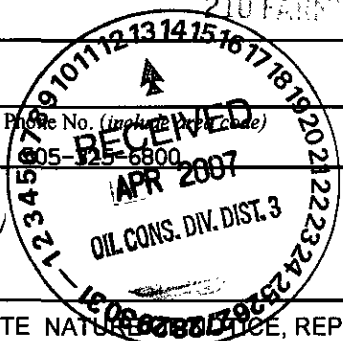
**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

2007 APR 12 AM 10:01

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit or CA/Agreement, Name and/or No. RECEIVED	
2. Name of Operator Energen Resources Corporation		8. Well Name and No. Carracas 19 B #10	
3a. Address 2198 Bloomfield Hwy, Farmington, NM 87401	3b. Phone No. (include area code) 505-255-6800	9. API Well No. 30-039-27565	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) At surface: 1510' fsl, 1350' fel At bottom: 660' fsl, 1980' fel 19-32N-4W		10. Field and Pool, or Exploratory Area Basin Fruitland Coal	
		11. County or Parish, State Rio Arriba NM	



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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recomplete 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Energen Resources would like to make the following changes to Carracas 19 B #10 recompletion sundry submitted on 2/5/07 and approved on 4/6/07 as follows:

- Change the bottom hole location (BHL) to 660 fsl, 1980 fel.
- Change the azimuth of the directional drill path as indicated on the attached revised C-102 and directional drill plan. The new TD of the well will be 5037' (MD), 4078' (TVD).
- Change the 4 1/2" liner to a 3 1/2" EJ, J-55, 9.7 ppf predrilled production liner with a wellbore diameter of 4 3/4".

All other wellwork operations will remain the same as outlined in the previously approved sundry and as outlined in the conditions of approval by both the USFS and BLM.

This change will allow for the production lateral to be drilled up-dip for better produced water drainage.

HOLD C-104 FOR Directional Sundry

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Nathan Smith	Title Drilling Engineer
	Date 4/12/07

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by Original Signed: Stephen Mason	Title	Date APR 12 2007
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, makes 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.

**NMOCD**

District I  
1625 N. French Dr., 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

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies  
RECEIVED  
210 FAX  
 AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

'API Number 30-039-27565		'Pool Code 71629		'Pool Name Basin Fruitland Coal	
'Property Code		'Property Name Carracas 19 B			'Well Number #10
'OGRID No. 162928		'Operator Name Energen Resources Corporation			'Elevation 7367'

**10 Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	19	32N	04W		1510'	South	1350'	East	Rio Arriba


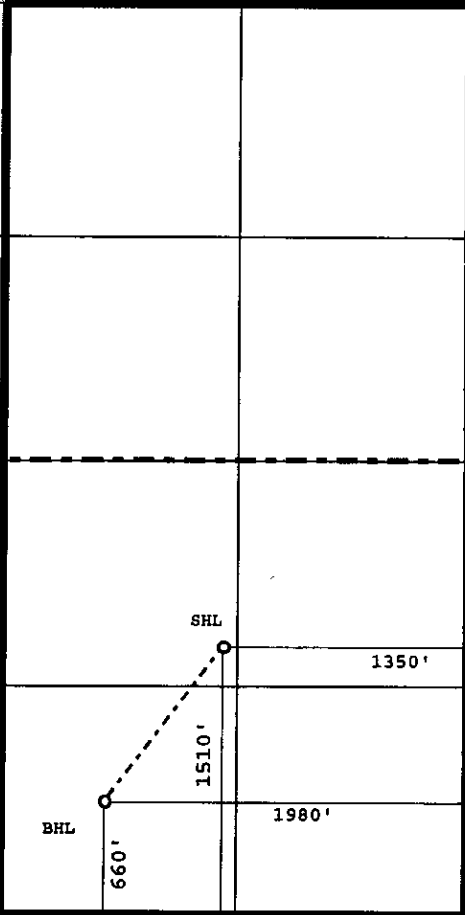
**11 Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	32N	04W		660'	South	1980'	East	Rio Arriba

'Dedicated Acres 320 E/2	'Joint or Infill	'Consolidation Code	'Order No.
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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.

1156.98                      1320.00                      2640.00

	19		<p><b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by and division.</p> <p>Signature: <i>Nathan Smith</i>                      Date: 4/11/2007</p> <p>Nathan Smith Printed Name</p>
	<p><b>18 SURVEYOR CERTIFICATION</b> 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.</p> <p>October 16, 2003 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: Original survey conducted and recorded by Jason C. Edwards</p> <p>15269 Certificate Number</p>		

5280.00

# **Energen Resources**

**Carson Natl Forest; S19, T32N, R4W**

**Carracas Mesa**

**Carracas 19 B #10**

**Carracas 19 B #10 ST**

**Plan: Plan #1**


## **Energen Resources - Design**

**11 April, 2007**



**Project:** Carson Natl Forest; S19, T32N, R4W  
**Site:** Carracas Mesa  
**Well:** Carracas 19 B #10  
**Wellbore:** Carracas 19 B #10 ST  
**Plan:** Plan #1 (Carracas 19 B #10/Carracas 19 B #10 ST)

T/M

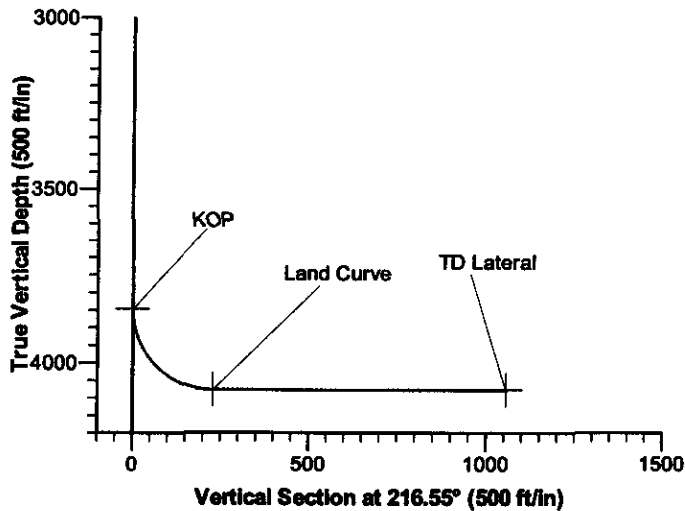
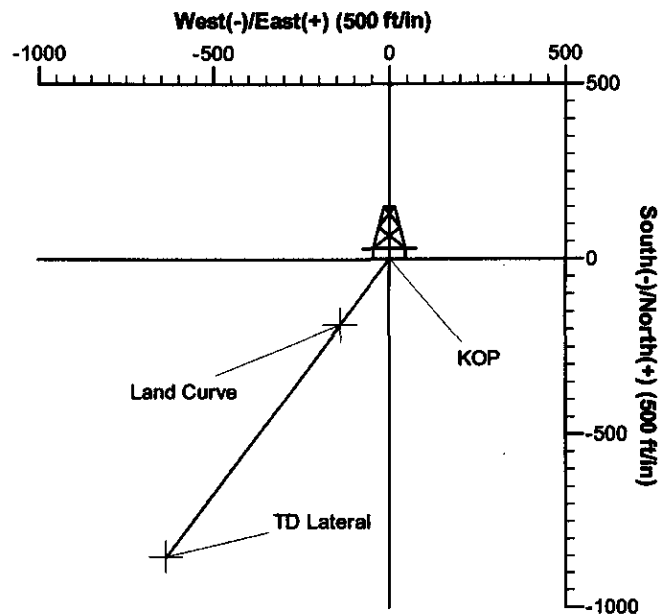


Azimuths to True North  
 Magnetic North: 0.00°  
  
 Magnetic Field  
 Strength: 0.0snT  
 Dip Angle: 0.00°  
 Date: 2/1/2007  
 Model: USER DEFINED

<b>PROJECT DETAILS: Carson Natl Forest; S19, T32N, R4W</b>
Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Western Zone  System Datum: Mean Sea Level

<b>SURFACE LOCATION</b>	
Easting:	0.00
Northing:	0.00

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3848.0	0.00	0.00	3848.0	0.0	0.0	0.00	0.00	0.0	KOP
3	4209.3	90.00	216.55	4078.0	-184.8	-137.0	24.91	216.55	230.0	Land Curve
4	5037.3	90.00	216.55	4078.0	-849.9	-630.1	0.00	0.00	1058.0	TD Lateral



**Energen**  
Energen Resources - Design



<b>Company:</b>	Energen Resources	<b>Local Co-ordinate Reference:</b>	Well Carracas 19 B #10
<b>Project:</b>	Carson Natl Forest; S19, T32N, R4W	<b>TVD Reference:</b>	KB @ 7382.0ft (Drilling Rig)
<b>Site:</b>	Carracas Mesa	<b>MD Reference:</b>	KB @ 7382.0ft (Drilling Rig)
<b>Well:</b>	Carracas 19 B #10	<b>North Reference:</b>	True
<b>Wellbore:</b>	Carracas 19 B #10 ST	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #1	<b>Database:</b>	EDM 2003.16 Single User Db

<b>Project</b>	Carson Natl Forest; S19, T32N, R4W		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Western Zone		

<b>Site</b>	Carracas Mesa		
<b>Site Position:</b>		<b>Northing:</b>	ft
<b>From:</b>	None	<b>Easting:</b>	ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	
		<b>Longitude:</b>	
		<b>Grid Convergence:</b>	0.00 °

<b>Well</b>	Carracas 19 B #10					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	0.00 ft	<b>Latitude:</b>	30° 42' 36.034 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	0.00 ft	<b>Longitude:</b>	116° 28' 58.264 W
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	7,367.0 ft	<b>Ground Level:</b>	7,367.0 ft	

<b>Wellbore</b>	Carracas 19 B #10 ST		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/1/2007	0.00	0.00	0

<b>Design</b>	Plan #1		
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<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	216.55

<b>Survey Tool Program</b>	Date: 4/11/2007			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	5,037.3	Plan #1 (Carracas 19 B #10 ST)	MWD	MWD - Standard

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00
100.0	100.0	0.00	0.00	0.00	0.0	0.00	0.00
200.0	200.0	0.00	0.00	0.00	0.0	0.00	0.00
300.0	300.0	0.00	0.00	0.00	0.0	0.00	0.00
400.0	400.0	0.00	0.00	0.00	0.0	0.00	0.00
500.0	500.0	0.00	0.00	0.00	0.0	0.00	0.00
600.0	600.0	0.00	0.00	0.00	0.0	0.00	0.00
700.0	700.0	0.00	0.00	0.00	0.0	0.00	0.00
800.0	800.0	0.00	0.00	0.00	0.0	0.00	0.00
900.0	900.0	0.00	0.00	0.00	0.0	0.00	0.00
1,000.0	1,000.0	0.00	0.00	0.00	0.0	0.00	0.00
1,100.0	1,100.0	0.00	0.00	0.00	0.0	0.00	0.00

**Energen**  
Energen Resources - Design



<b>Company:</b>	Energen Resources	<b>Local Co-ordinate Reference:</b>	Well Carracas 19 B #10
<b>Project:</b>	Carson Natl Forest; S19, T32N, R4W	<b>TVD Reference:</b>	KB @ 7382.0ft (Drilling Rig)
<b>Site:</b>	Carracas Mesa	<b>MD Reference:</b>	KB @ 7382.0ft (Drilling Rig)
<b>Well:</b>	Carracas 19 B #10	<b>North Reference:</b>	True
<b>Wellbore:</b>	Carracas 19 B #10 ST	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #1	<b>Database:</b>	EDM 2003.16 Single User Db

Planned Survey							
MD (ft)	TVD (ft)	Inc (")	Azi (")	Build ("/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
1,200.0	1,200.0	0.00	0.00	0.00	0.0	0.00	0.00
1,300.0	1,300.0	0.00	0.00	0.00	0.0	0.00	0.00
1,400.0	1,400.0	0.00	0.00	0.00	0.0	0.00	0.00
1,500.0	1,500.0	0.00	0.00	0.00	0.0	0.00	0.00
1,600.0	1,600.0	0.00	0.00	0.00	0.0	0.00	0.00
1,700.0	1,700.0	0.00	0.00	0.00	0.0	0.00	0.00
1,800.0	1,800.0	0.00	0.00	0.00	0.0	0.00	0.00
1,900.0	1,900.0	0.00	0.00	0.00	0.0	0.00	0.00
2,000.0	2,000.0	0.00	0.00	0.00	0.0	0.00	0.00
2,100.0	2,100.0	0.00	0.00	0.00	0.0	0.00	0.00
2,200.0	2,200.0	0.00	0.00	0.00	0.0	0.00	0.00
2,300.0	2,300.0	0.00	0.00	0.00	0.0	0.00	0.00
2,400.0	2,400.0	0.00	0.00	0.00	0.0	0.00	0.00
2,500.0	2,500.0	0.00	0.00	0.00	0.0	0.00	0.00
2,600.0	2,600.0	0.00	0.00	0.00	0.0	0.00	0.00
2,700.0	2,700.0	0.00	0.00	0.00	0.0	0.00	0.00
2,800.0	2,800.0	0.00	0.00	0.00	0.0	0.00	0.00
2,900.0	2,900.0	0.00	0.00	0.00	0.0	0.00	0.00
3,000.0	3,000.0	0.00	0.00	0.00	0.0	0.00	0.00
3,100.0	3,100.0	0.00	0.00	0.00	0.0	0.00	0.00
3,200.0	3,200.0	0.00	0.00	0.00	0.0	0.00	0.00
3,300.0	3,300.0	0.00	0.00	0.00	0.0	0.00	0.00
3,400.0	3,400.0	0.00	0.00	0.00	0.0	0.00	0.00
3,500.0	3,500.0	0.00	0.00	0.00	0.0	0.00	0.00
3,600.0	3,600.0	0.00	0.00	0.00	0.0	0.00	0.00
3,700.0	3,700.0	0.00	0.00	0.00	0.0	0.00	0.00
3,800.0	3,800.0	0.00	0.00	0.00	0.0	0.00	0.00
3,848.0	3,848.0	0.00	0.00	0.00	0.0	0.00	0.00
<b>KOP</b>							
3,860.0	3,860.0	2.99	216.55	24.91	0.3	-0.24	-0.21
3,880.0	3,879.9	7.97	216.55	24.91	2.2	-1.68	-1.46
3,900.0	3,899.6	12.95	216.55	24.91	5.9	-4.42	-3.84
3,920.0	3,918.8	17.94	216.55	24.91	11.2	-8.44	-7.33
3,940.0	3,937.6	22.92	216.55	24.91	18.2	-13.71	-11.90
3,960.0	3,955.6	27.90	216.55	24.91	26.7	-20.19	-17.52
3,980.0	3,972.9	32.88	216.55	24.91	36.8	-27.83	-24.15
4,000.0	3,989.2	37.87	216.55	24.91	48.4	-36.57	-31.74
4,020.0	4,004.4	42.85	216.55	24.91	61.4	-46.35	-40.22
4,040.0	4,018.5	47.83	216.55	24.91	75.6	-57.09	-49.54
4,060.0	4,031.2	52.81	216.55	24.91	91.0	-68.71	-59.63
4,080.0	4,042.6	57.79	216.55	24.91	107.4	-81.13	-70.40
4,100.0	4,052.5	62.78	216.55	24.91	124.8	-94.25	-81.78
4,120.0	4,060.9	67.76	216.55	24.91	142.9	-107.96	-93.69
4,140.0	4,067.6	72.74	216.55	24.91	161.8	-122.17	-106.02

**Energen**  
Energen Resources - Design



<b>Company:</b>	Energen Resources	<b>Local Co-ordinate Reference:</b>	Well Carracas 19 B #10
<b>Project:</b>	Carson Natl Forest; S19, T32N, R4W	<b>TVD Reference:</b>	KB @ 7382.0ft (Drilling Rig)
<b>Site:</b>	Carracas Mesa	<b>MD Reference:</b>	KB @ 7382.0ft (Drilling Rig)
<b>Well:</b>	Carracas 19 B #10	<b>North Reference:</b>	True
<b>Wellbore:</b>	Carracas 19 B #10 ST	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Plan #1	<b>Database:</b>	EDM 2003.16 Single User Db

Planned Survey							
MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build ("/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
4,160.0	4,072.7	77.72	216.55	24.91	181.1	-136.78	-118.69
4,180.0	4,076.1	82.71	216.55	24.91	200.8	-151.66	-131.60
4,200.0	4,077.8	87.69	216.55	24.91	220.7	-166.70	-144.66
4,209.3	4,078.0	90.00	216.55	24.91	230.0	-173.71	-150.74
<b>Land Curve</b>							
4,300.0	4,078.0	90.00	216.55	0.00	320.7	-242.23	-210.20
4,400.0	4,078.0	90.00	216.55	0.00	420.7	-317.76	-275.74
4,500.0	4,078.0	90.00	216.55	0.00	520.7	-393.28	-341.28
4,600.0	4,078.0	90.00	216.55	0.00	620.7	-468.81	-406.82
4,700.0	4,078.0	90.00	216.55	0.00	720.7	-544.34	-472.36
4,800.0	4,078.0	90.00	216.55	0.00	820.7	-619.87	-537.90
4,900.0	4,078.0	90.00	216.55	0.00	920.7	-695.40	-603.44
5,000.0	4,078.0	90.00	216.55	0.00	1,020.7	-770.92	-668.99
5,037.3	4,078.0	90.00	216.55	0.00	1,058.0	-799.08	-693.42
<b>TD Lateral</b>							

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TD Lateral	- plan hits target	0.00	355.60	4,078.0	-849.9	-630.1	-799.08	-693.42	30° 42' 27.688 N	116° 29' 5.413 W
	- Point									
KOP	- plan hits target	0.00	355.60	3,848.0	0.0	0.0	0.00	0.00	30° 42' 36.034 N	116° 28' 58.264 W
	- Point									
Land Curve	- plan hits target	0.00	355.60	4,078.0	-184.8	-137.0	-173.71	-150.74	30° 42' 34.220 N	116° 28' 59.818 W
	- Point									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_