

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.

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		5. Lease Serial No. SF-079090
2. Name of Operator Energen Resources Corporation		6. If Indian, Allottee or Tribe Name
3a. Address 2198 Bloomfield Highway, Farmington, NM 87401	3b. Phone No. (include area code) (505) 325-6800	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 155' FSL, 65' FEL (P) BHL: 2530' FSL, 1880 FEL (J) Sec. 22, T32N, 6W		8. Well Name and No. SJ 32-5 Unit 110
		9. API Well No. 30-039-26721
		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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input 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 recompleate 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 recompleate the San Juan 32-5 Unit #110 by drilling a horizontal lateral off of the existing vertical wellbore as indicated on the revised attached C-102 and directional wellplan. A whipstock will be set at 2773' +/- (TVD) and a window milled in the existing 7" casing from 2761-2767' +/- (TVD). The lateral will be drilled to 5864' MD, 2961' TVD. A 4.5" 11.6 ppf, J-55, LTC pre-drilled liner will be ran and set from 2763-5864' MD. A 2 3/8" tubing string will be landed at 3032' TVD in the 7" casing

Top of the Fruitland fm. @ $\pm 2726'$
- 7" csq. was cemented to surface.

HOLD 0104 FOR directional survey
as drilled plat
NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

210 FARMINGTON NM

RECEIVED

2007 SEP -5 AM 11:22

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Jason Kincaid

Title

Drilling Engineer

Date 8/31/2007

RCVD SEP 11 '07

OIL CONS. DIV.

DIST. 3

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Petr. Eng.

Date

9/6/07

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.

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

☒ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-039-26721	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code	⁵ Property Name San Juan 32-5 Unit	
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁶ Well Number #110 ⁹ Elevation 6322' GL

¹⁰ Surface Location

UL or lot no. P	Section 22	Township 32N	Range 6W	Lot Idn	Feet from the 155	North/South line South	Feet from the 65	East/West line East	County Rio Arriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. J	Section 22	Township 32N	Range 6W	Lot Idn	Feet from the 2530	North/South line South	Feet from the 1880	East/West line East	County Rio Arriba
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¹² Dedicated Acres 320 82 E 112	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

<div style="border: 1px solid black; height: 400px; position: relative;"> <div style="position: absolute; top: 10px; left: 10px;">16</div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);"> <div style="text-align: center;">BHL</div> <div style="position: absolute; left: 0; top: 50%; transform: rotate(-90deg);">2530'</div> <div style="position: absolute; right: 0; top: 50%;">1880'</div> <div style="position: absolute; bottom: 10%; right: 10%;"> <div style="text-align: center;">SHL</div> <div style="position: absolute; left: 0; top: 50%; transform: rotate(-90deg);">155'</div> <div style="position: absolute; right: 0; top: 50%;">65'</div> </div> </div> </div>	<div style="border: 1px solid black; padding: 5px;"> ¹⁷ OPERATOR CERTIFICATION <i>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 the division.</i> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="text-align: center;"> Signature </div> <div style="text-align: center;"> 8/31/2007 Date </div> </div> <div style="margin-top: 10px;"> Jason Kincaid Printed Name </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> ¹⁸ SURVEYOR CERTIFICATION <i>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.</i> September 12, 200 Date of Survey Signature and Seal of Professional Surveyor: Original Survey Conducted and Recorded By: Neale C. Edwards 6857 Certificate Number </div>
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Energen Resources

SJBR-S22, T32N, R6W

Eul Canyon

San Juan 32-5 Unit #110

San Juan 32-5 Unit #110 ST

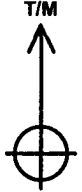
Plan: Preliminary Plan

Plan Design

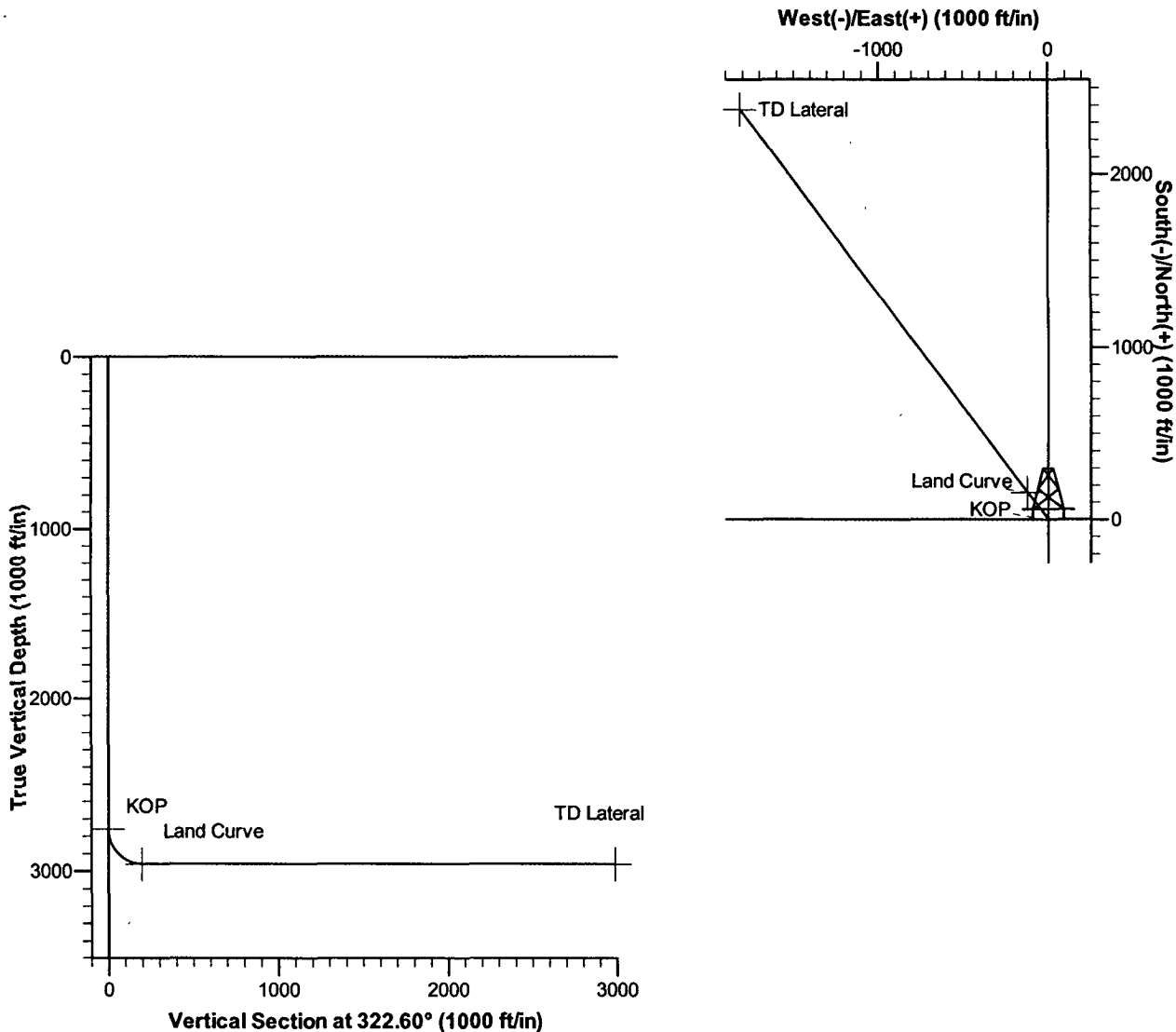
31 August, 2007

Project: SJBR-S22, T32N, R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #110
Wellbore: San Juan 32-5 Unit #110 ST
Plan: Preliminary Plan (San Juan 32-5 Unit #110/San Juan 32-5 Unit #110 ST)

PROJECT DETAILS: SJBR-S22, T32N, R6W	
Geodetic System: US State Plane 1983	
Datum: North American Datum 1983	
Ellipsoid: GRS 1980	
Zone: New Mexico Central Zone	
System Datum: Mean Sea Level	

	Azimuths to True North
	Magnetic North: 0.00°
	Magnetic Field
	Strength: 0.0snT
	Dip Angle: 0.00°
	Date: 8/31/2007
	Model: USER DEFINED

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	2761.0	0.00	0.00	2761.0	0.0	0.0	0.00	0.00	0.0	KOP
3	3075.2	90.01	322.60	2961.0	158.9	-121.5	28.65	322.60	200.0	Land Curve
4	5864.3	89.99	322.60	2961.0	2374.6	-1815.5	0.00	158.83	2989.1	TD Lateral



Energen

Plan Design

Company: Energen Resources	Local Co-ordinate Reference: Well San Juan 32-5 Unit #110	
Project: SJBR-S22, T32N, R6W	TVD Reference: KB @ 6344.0ft (Drilling Rig)	
Site: Eul Canyon	MD Reference: KB @ 6344.0ft (Drilling Rig)	
Well: San Juan 32-5 Unit #110	North Reference: True	
Wellbore: San Juan 32-5 Unit #110 ST	Survey Calculation Method: Minimum Curvature	
Design: Preliminary Plan	Database: EDM 2003.16 Single User Db	

Project SJBR-S22, T32N, R6W		
Map System: US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum: North American Datum 1983		
Map Zone: New Mexico Central Zone		

Site Eul Canyon			
Site Position:	Northing:	2,170,581.42 ft	Latitude: 36° 57' 32.940 N
From: Lat/Long	Easting:	1,293,873.65 ft	Longitude: 107° 26' 10.032 W
Position Uncertainty: 0.0 ft	Slot Radius:	"	Grid Convergence: -0.71 °

Well San Juan 32-5 Unit #110			
Well Position	+N-S	0.0 ft	Latitude: 36° 57' 32.940 N
	+E-W	0.0 ft	Longitude: 107° 26' 10.032 W
Position Uncertainty		0.0 ft	Ground Level: 6,322.0 ft
	Wellhead Elevation:	6,322.0 ft	

Wellbore San Juan 32-5 Unit #110 ST					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	8/31/2007	0.00	0.00	0

Design Preliminary Plan				
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	322.60

Survey Tool Program		Date 8/31/2007		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	5,864.3	Preliminary Plan (San Juan 32-5 Unit #110	MWD	MWD - Standard

Planned Survey						
MD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	N/S (ft)	E/W (ft)	V. Sec (ft)
0.0	0.00	0.00	0.00	0.0	0.0	0.0
100.0	0.00	0.00	0.00	0.0	0.0	0.0
200.0	0.00	0.00	0.00	0.0	0.0	0.0
300.0	0.00	0.00	0.00	0.0	0.0	0.0
400.0	0.00	0.00	0.00	0.0	0.0	0.0
500.0	0.00	0.00	0.00	0.0	0.0	0.0
600.0	0.00	0.00	0.00	0.0	0.0	0.0
700.0	0.00	0.00	0.00	0.0	0.0	0.0
800.0	0.00	0.00	0.00	0.0	0.0	0.0
900.0	0.00	0.00	0.00	0.0	0.0	0.0
1,000.0	0.00	0.00	0.00	0.0	0.0	0.0
1,100.0	0.00	0.00	0.00	0.0	0.0	0.0

Energen

Plan Design

Company: Energen Resources
Project: SJBR-S22, T32N, R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #110
Wellbore: San Juan 32-5 Unit #110 ST
Design: Preliminary Plan

Local Co-ordinate Reference: Well San Juan 32-5 Unit #110
TVD Reference: KB @ 6344.0ft (Drilling Rig)
MD Reference: KB @ 6344.0ft (Drilling Rig)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	N/S (ft)	E/W (ft)	V. Sec (ft)
1,200.0	0.00	0.00	0.00	0.0	0.0	0.0
1,300.0	0.00	0.00	0.00	0.0	0.0	0.0
1,400.0	0.00	0.00	0.00	0.0	0.0	0.0
1,500.0	0.00	0.00	0.00	0.0	0.0	0.0
1,600.0	0.00	0.00	0.00	0.0	0.0	0.0
1,700.0	0.00	0.00	0.00	0.0	0.0	0.0
1,800.0	0.00	0.00	0.00	0.0	0.0	0.0
1,900.0	0.00	0.00	0.00	0.0	0.0	0.0
2,000.0	0.00	0.00	0.00	0.0	0.0	0.0
2,100.0	0.00	0.00	0.00	0.0	0.0	0.0
2,200.0	0.00	0.00	0.00	0.0	0.0	0.0
2,300.0	0.00	0.00	0.00	0.0	0.0	0.0
2,400.0	0.00	0.00	0.00	0.0	0.0	0.0
2,500.0	0.00	0.00	0.00	0.0	0.0	0.0
2,600.0	0.00	0.00	0.00	0.0	0.0	0.0
2,700.0	0.00	0.00	0.00	0.0	0.0	0.0
2,761.0	0.00	0.00	0.00	0.0	0.0	0.0
2,780.0	5.44	322.60	28.65	0.7	-0.5	0.9
2,800.0	11.17	322.60	28.65	3.0	-2.3	3.8
2,820.0	16.90	322.60	28.65	6.9	-5.2	8.6
2,840.0	22.63	322.60	28.65	12.2	-9.4	15.4
2,860.0	28.36	322.60	28.65	19.1	-14.6	24.0
2,880.0	34.09	322.60	28.65	27.3	-20.9	34.4
2,900.0	39.82	322.60	28.65	36.9	-28.2	46.4
2,920.0	45.55	322.60	28.65	47.6	-36.4	59.9
2,940.0	51.28	322.60	28.65	59.5	-45.5	74.9
2,960.0	57.01	322.60	28.65	72.4	-55.3	91.1
2,980.0	62.74	322.60	28.65	86.1	-65.8	108.4
3,000.0	68.47	322.60	28.65	100.6	-76.9	126.6
3,020.0	74.20	322.60	28.65	115.6	-88.4	145.5
3,040.0	79.93	322.60	28.65	131.1	-100.2	165.0
3,060.0	85.66	322.60	28.65	146.8	-112.3	184.9
3,075.2	90.01	322.60	28.65	158.9	-121.5	200.0
3,100.0	90.01	322.60	0.00	178.6	-136.6	224.8
3,200.0	90.01	322.60	0.00	258.0	-197.3	324.8
3,300.0	90.01	322.60	0.00	337.5	-258.1	424.8
3,400.0	90.01	322.60	0.00	416.9	-318.8	524.8
3,500.0	90.01	322.60	0.00	496.4	-379.5	624.8
3,600.0	90.01	322.60	0.00	575.8	-440.3	724.8
3,700.0	90.00	322.60	0.00	655.2	-501.0	824.8
3,800.0	90.00	322.60	0.00	734.7	-561.8	924.8
3,900.0	90.00	322.60	0.00	814.1	-622.5	1,024.8
4,000.0	90.00	322.60	0.00	893.6	-683.2	1,124.8
4,100.0	90.00	322.60	0.00	973.0	-744.0	1,224.8

Energen

Plan Design

Company: Energen Resources
Project: SJBR-S22, T32N, R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #110
Wellbore: San Juan 32-5 Unit #110 ST
Design: Preliminary Plan

Local Co-ordinate Reference: Well San Juan 32-5 Unit #110
TVD Reference: KB @ 6344.0ft (Drilling Rig)
MD Reference: KB @ 6344.0ft (Drilling Rig)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	N/S (ft)	E/W (ft)	V. Sec (ft)
4,200.0	90.00	322.60	0.00	1,052.5	-804.7	1,324.8
4,300.0	90.00	322.60	0.00	1,131.9	-865.4	1,424.8
4,400.0	90.00	322.60	0.00	1,211.3	-926.2	1,524.8
4,500.0	90.00	322.60	0.00	1,290.8	-986.9	1,624.8
4,600.0	90.00	322.60	0.00	1,370.2	-1,047.7	1,724.8
4,700.0	90.00	322.60	0.00	1,449.7	-1,108.4	1,824.8
4,800.0	90.00	322.60	0.00	1,529.1	-1,169.1	1,924.8
4,900.0	90.00	322.60	0.00	1,608.5	-1,229.9	2,024.8
5,000.0	90.00	322.60	0.00	1,688.0	-1,290.6	2,124.8
5,100.0	90.00	322.60	0.00	1,767.4	-1,351.3	2,224.8
5,200.0	90.00	322.60	0.00	1,846.9	-1,412.1	2,324.8
5,300.0	90.00	322.60	0.00	1,926.3	-1,472.8	2,424.8
5,400.0	89.99	322.60	0.00	2,005.8	-1,533.5	2,524.8
5,500.0	89.99	322.60	0.00	2,085.2	-1,594.3	2,624.8
5,600.0	89.99	322.60	0.00	2,164.7	-1,655.0	2,724.8
5,700.0	89.99	322.60	0.00	2,244.1	-1,715.7	2,824.8
5,800.0	89.99	322.60	0.00	2,323.5	-1,776.5	2,924.8
5,864.3	89.99	322.60	0.00	2,374.6	-1,815.5	2,989.1

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
KOP - plan hits target - Point	0.00	0.00	2,761.0	0.0	0.0	2,170,581.42	1,293,873.65	36° 57' 32.940 N	107° 26' 10.032 W
TD Lateral - plan hits target - Point	0.00	0.00	2,961.0	2,374.6	-1,815.5	2,172,978.44	1,292,087.85	36° 57' 56.417 N	107° 26' 32.401 W
Land Curve - plan hits target - Point	0.00	0.00	2,961.0	158.9	-121.5	2,170,741.82	1,293,754.13	36° 57' 34.511 N	107° 26' 11.529 W

Checked By: _____ Approved By: _____ Date: _____