

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

NOV 18 2009

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.

Bureau of Land Management  
Farmington Field Office

Lease Serial No.

NMSF 079011A

Indian, Allottee or Tribe Name  
Office

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3a. Address

2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

(505) 325-6800

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

700 FSL, 1360 FEL  
SEC.27 T32N R06W

7. If Unit or CA/Agreement, Name and/or No.  
San Juan 32-5 Unit

8. Well Name and No.

San Juan 32-5 Unit 108S

9. API Well No.

30-039-26906

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

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <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 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 re-complete the San Juan 32-5 Unit #108S as follows:

\*Set a plug and whipstock at 2605' TVD and mill a window from 2593' - 2599'.

\*Drill a curve and horizontal lateral to a MD of 4849' (2813' TVD) with a BHL of 2500 FSL, 2500 FEL.

\*Line the lateral with a perforated 4 1/2", 11.60 ppf, J-55 LTC liner string.

\*A 2-3/8" tubing string will be landed at 2810'TVD in the 7" casing.

Attached is a revised C-102 and directional plan depicting this recompletion.

RCVD NOV 20 '09  
OIL CONS. DIV.  
DIST. 3

Hold C104

for Directional Survey  
and "As Drilled" plat

P.A.

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

Jason Kincaid

Title Drilling Engineer

Signature

Date 11/17/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

NOV 18 2009

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

**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**

<sup>1</sup> API Number 30-039-26906	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name Basin Fruitland Coal
<sup>4</sup> Property Code 21996	<sup>5</sup> Property Name San Juan 32-5 Unit	<sup>6</sup> Well Number 108S
<sup>7</sup> OGRID No. 162928	<sup>8</sup> Operator Name ENERGEN RESOURCES CORPORATION	<sup>9</sup> Elevation 6132'

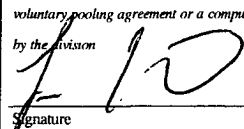
<sup>10</sup> Surface Location

UL or lot no. P	Section 27	Township 32N	Range 6W	Lot Idn	Feet from the 700	North/South line SOUTH	Feet from the 1360	East/West line EAST	County RIO ARriba
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. K	Section 27	Township 32N	Range 6W	Lot Idn	Feet from the 2500	North/South line SOUTH	Feet from the 2500	East/West line EAST	County RIO ARriba
<sup>12</sup> Dedicated Acres 320 E/2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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="position: relative; height: 400px;"> <div style="position: absolute; left: 50px; top: 50px;">16</div> <div style="position: absolute; left: 330px; top: 680px; font-size: 24px;">23</div> <div style="position: absolute; left: 410px; top: 690px;">BHL</div> <div style="position: absolute; left: 530px; top: 690px;">2500'</div> <div style="position: absolute; left: 330px; top: 780px;">2500'</div> <div style="position: absolute; left: 560px; top: 860px;">1360'</div> <div style="position: absolute; left: 520px; top: 890px;">SHL</div> <div style="position: absolute; left: 460px; top: 900px;">710'</div> </div>	<p><sup>17</sup> <b>OPERATOR CERTIFICATION</b></p> <p>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</p> <p style="text-align: right;">11/17/2009</p> <p>Signature:  Date</p> <p>Printed Name: JASON KINCAID</p>
	<p><sup>18</sup> <b>SURVEYOR CERTIFICATION</b></p> <p>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>DECEMBER 5, 2001</p> <p>Date of Survey</p> <p>Original Survey Conducted and Recorded By: Jason C. Edwards</p>
	<p>15269</p> <p>Certificate Number</p>



## **Energen Resources Corp.**

**SJBR-Sec.27-T32N-R06W**

**Eul Canyon**

**San Juan 32-5 Unit #108S**

**Re-Entry Sidetrack OPE FTC**

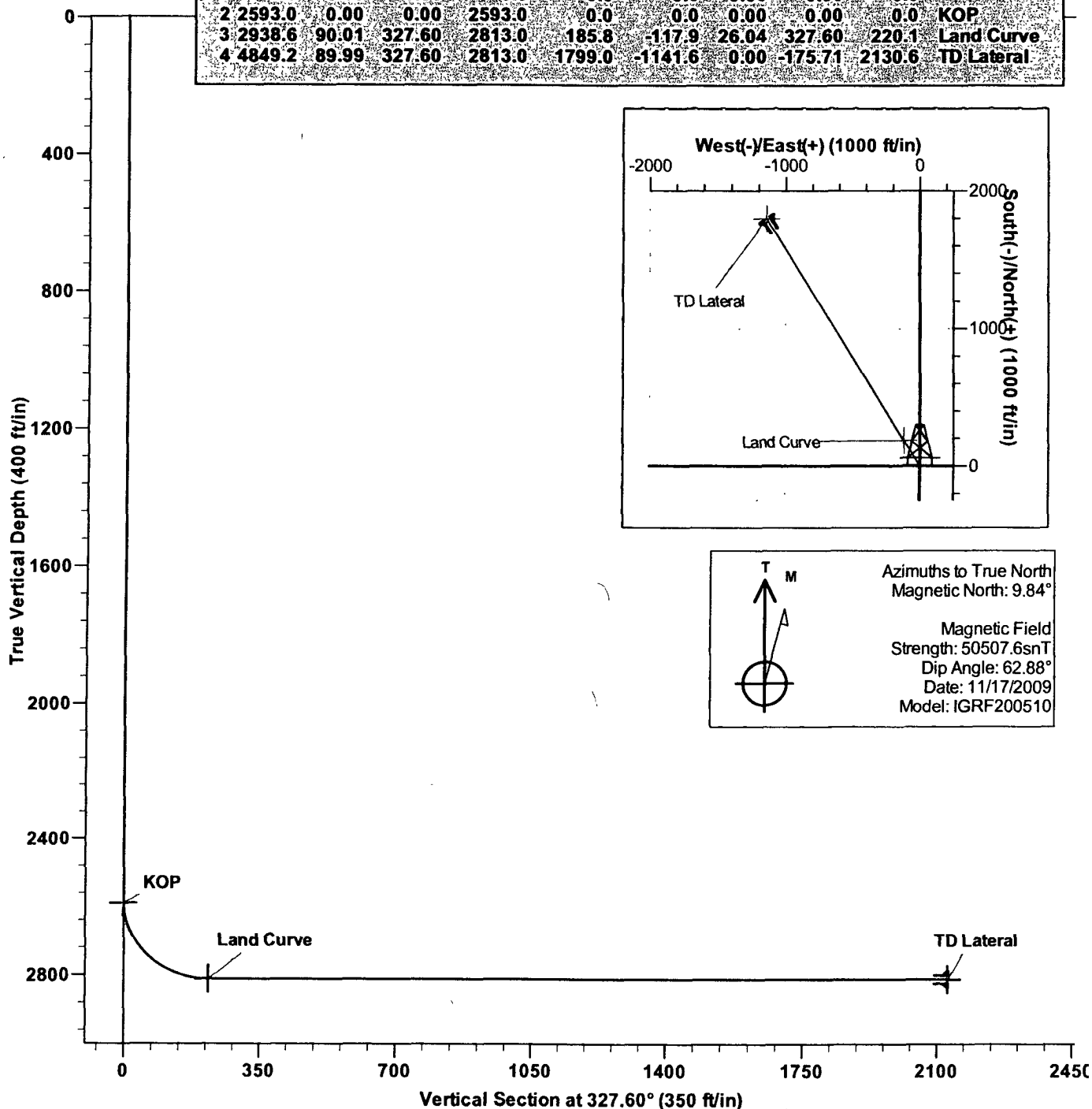
**Plan: Plan #1**

## **Directional Plan**

**17 November, 2009**

## 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	2593.0	0.00	0.00	2593.0	0.0	0.0	0.00	0.00	0.0	KOP
3	2938.6	90.01	327.60	2813.0	185.8	-117.9	26.04	327.60	220.1	Land Curve
4	4849.2	89.99	327.60	2813.0	1799.0	-1141.6	0.00	-175.71	2130.6	TD Lateral



**Energen Resources**

## Directional Plan

**Company:** Energen Resources Corp.  
**Project:** SJBR-Sec.27-T32N-R06W  
**Site:** Eul Canyon  
**Well:** San Juan 32-5 Unit #108S  
**Wellbore:** Re-Entry Sidetrack OPE FTC  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well San Juan 32-5 Unit #108S  
**TVD Reference:** KB @ 6147.0ft (Drilling Rig)  
**MD Reference:** KB @ 6147.0ft (Drilling Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

<b>Project</b>	SJBR-Sec.27-T32N-R06W		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico Central 3002		

<b>Site</b>	Eul Canyon		
<b>Site Position:</b>		<b>Northing:</b>	1,801,743.44 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	147,681.05 ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	35° 56' 46.000 N
		<b>Longitude:</b>	107° 26' 25.000 W
		<b>Grid Convergence:</b>	-0.70 °

<b>Well</b>	San Juan 32-5 Unit #108S		
<b>Well Position</b>	+N/-S	0.0 ft	<b>Northing:</b> 1,801,743.44 ft
	+E/-W	0.0 ft	<b>Easting:</b> 147,681.05 ft
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	6,132.0 ft
		<b>Latitude:</b>	35° 56' 46.000 N
		<b>Longitude:</b>	107° 26' 25.000 W
		<b>Ground Level:</b>	6,132.0 ft

<b>Wellbore</b>	Re-Entry Sidetrack OPE FTC				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF200510	11/17/2009	(°)	(°)	(nT)
			9.84	62.88	50,508

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	327.60

<b>Survey Tool Program</b>	<b>Date</b> 11/17/2009			
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(ft)	(ft)			
0.0	4,849.2	Plan #1 (Re-Entry Sidetrack OPE FTC)	MWD	MWD - Standard

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

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**Planned Survey**

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	N/S (ft)	E/W (ft)	V. Sec (ft)
1,200.0	1,200.0	0.00	0.00	0.00	0.0	0.0	0.0
1,300.0	1,300.0	0.00	0.00	0.00	0.0	0.0	0.0
1,400.0	1,400.0	0.00	0.00	0.00	0.0	0.0	0.0
1,500.0	1,500.0	0.00	0.00	0.00	0.0	0.0	0.0
1,600.0	1,600.0	0.00	0.00	0.00	0.0	0.0	0.0
1,700.0	1,700.0	0.00	0.00	0.00	0.0	0.0	0.0
1,800.0	1,800.0	0.00	0.00	0.00	0.0	0.0	0.0
1,900.0	1,900.0	0.00	0.00	0.00	0.0	0.0	0.0
2,000.0	2,000.0	0.00	0.00	0.00	0.0	0.0	0.0
2,100.0	2,100.0	0.00	0.00	0.00	0.0	0.0	0.0
2,200.0	2,200.0	0.00	0.00	0.00	0.0	0.0	0.0
2,300.0	2,300.0	0.00	0.00	0.00	0.0	0.0	0.0
2,400.0	2,400.0	0.00	0.00	0.00	0.0	0.0	0.0
2,500.0	2,500.0	0.00	0.00	0.00	0.0	0.0	0.0
2,593.0	2,593.0	0.00	0.00	0.00	0.0	0.0	0.0
<b>KOP</b>							
2,600.0	2,600.0	1.82	327.60	26.04	0.1	-0.1	0.1
2,620.0	2,619.9	7.03	327.60	26.04	1.4	-0.9	1.7
2,640.0	2,639.6	12.24	327.60	26.04	4.2	-2.7	5.0
2,660.0	2,659.0	17.45	327.60	26.04	8.5	-5.4	10.1
2,680.0	2,677.8	22.66	327.60	26.04	14.3	-9.1	17.0
2,700.0	2,695.8	27.87	327.60	26.04	21.5	-13.7	25.5
2,720.0	2,713.1	33.08	327.60	26.04	30.1	-19.1	35.7
2,740.0	2,729.3	38.28	327.60	26.04	39.9	-25.3	47.3
2,760.0	2,744.4	43.49	327.60	26.04	51.0	-32.4	60.4
2,780.0	2,758.3	48.70	327.60	26.04	63.2	-40.1	74.8
2,800.0	2,770.8	53.91	327.60	26.04	76.3	-48.4	90.4
2,820.0	2,781.8	59.12	327.60	26.04	90.4	-57.4	107.1
2,840.0	2,791.3	64.33	327.60	26.04	105.3	-66.8	124.7
2,860.0	2,799.1	69.54	327.60	26.04	120.8	-76.7	143.1
2,880.0	2,805.2	74.74	327.60	26.04	136.9	-86.9	162.1
2,900.0	2,809.6	79.95	327.60	26.04	153.4	-97.3	181.6
2,920.0	2,812.2	85.16	327.60	26.04	170.1	-107.9	201.4
2,938.6	2,813.0	90.01	327.60	26.04	185.8	-117.9	220.1
<b>Land Curve</b>							
3,000.0	2,813.0	90.01	327.60	0.00	237.6	-150.8	281.4
3,100.0	2,813.0	90.01	327.60	0.00	322.1	-204.4	381.4
3,200.0	2,812.9	90.01	327.60	0.00	406.5	-257.9	481.4
3,300.0	2,812.9	90.01	327.60	0.00	490.9	-311.5	581.4
3,400.0	2,812.9	90.01	327.60	0.00	575.4	-365.1	681.4
3,500.0	2,812.9	90.01	327.60	0.00	659.8	-418.7	781.4
3,600.0	2,812.9	90.00	327.60	0.00	744.2	-472.3	881.4
3,700.0	2,812.9	90.00	327.60	0.00	828.7	-525.8	981.4
3,800.0	2,812.9	90.00	327.60	0.00	913.1	-579.4	1,081.4
3,900.0	2,812.9	90.00	327.60	0.00	997.5	-633.0	1,181.4

**Company:** Energen Resources Corp.  
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**Design:** Plan #1

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**MD Reference:** KB @ 6147.0ft (Drilling Rig)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Single User Db

**Planned Survey**

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (*100ft)	N/S (ft)	E/W (ft)	V. Sec (ft)
4,000.0	2,812.9	90.00	327.60	0.00	1,082.0	-686.6	1,281.4
4,100.0	2,812.9	90.00	327.60	0.00	1,166.4	-740.2	1,381.4
4,200.0	2,812.9	90.00	327.60	0.00	1,250.8	-793.7	1,481.4
4,300.0	2,812.9	89.99	327.60	0.00	1,335.3	-847.3	1,581.4
4,400.0	2,812.9	89.99	327.60	0.00	1,419.7	-900.9	1,681.4
4,500.0	2,812.9	89.99	327.60	0.00	1,504.1	-954.5	1,781.4
4,600.0	2,813.0	89.99	327.60	0.00	1,588.6	-1,008.1	1,881.4
4,700.0	2,813.0	89.99	327.60	0.00	1,673.0	-1,061.6	1,981.4
4,800.0	2,813.0	89.99	327.60	0.00	1,757.4	-1,115.2	2,081.4
4,849.2	2,813.0	89.99	327.60	0.00	1,799.0	-1,141.6	2,130.6

TD Lateral

**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
Land Curve - plan hits target - Point	0.00	0.00	2,813.0	185.8	-117.9	1,801,930.66	147,565.43	35° 56' 47.837 N	107° 26' 26.434 W
KOP - plan hits target - Point	0.00	0.00	2,593.0	0.0	0.0	1,801,743.44	147,681.05	35° 56' 46.000 N	107° 26' 25.000 W
TD Lateral - plan hits target - Point	0.00	0.00	2,813.0	1,799.0	-1,141.6	1,803,556.23	146,561.48	35° 57' 3.790 N	107° 26' 38.884 W

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
4,849.0	2,813.0	Liner	4-1/2	6-1/4

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