

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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 page 2

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

JAN 20 2011

2. Name of Operator
Energen Resources Corporation

Farmington Field Office
Bureau of Land Management

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)
SHL: (P) Sec.27-T32N-R6W ; 700'FSL, 1360'FEL
BHL: (J) Sec.27-T32N-R6W ; 2500'FSL, 2500'FEL

5. Lease Serial No.

NMSF 079011-A

6. If Indian, Allottee or Tribe Name

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	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 recompleat 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 recompleat 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 2600' TVD and mill a window from 2588'-2600'.

*Drill a curve and horizontal lateral to a MD of 4859' (2826' 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.

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

**RCVD JAN 26 '11
OIL CONS. DIV.
DIST. 3**

Hold C104
for Directional Survey
and "As Drilled" plat

Hold C104
for Directional Survey
and "As Drilled" plat

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

Title Drilling Engineer

Signature

Stephen Byers

Date 1/14/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JAN 26 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

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 July 16, 2010
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-26906	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 21996	⁵ Property Name San Juan 32-5 Unit	⁶ Well Number 108 S
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 6132'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
P	27	32N	6W		700'	South	1360'	East	Rio Arriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
K	27	32N	6W		2500'	South	2500'	East	Rio Arriba

¹² Dedicated Acres 320 E/2	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.

2683.56'	2681.58'
16	
5348.64'	27 BHL
	2500'
	2500'
	SHL
2663.10'	2845.26'
	700'
	1360'
	5274.72'
	¹⁷ OPERATOR CERTIFICATION
	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>Stephen Byers</i> 1-14-11 Signature Date
	Stephen Byers Printed Name
	sbyers@energen.com E-mail Address
	¹⁸ SURVEYOR CERTIFICATION
	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.
	December 5, 2001 Date of Survey
	Signature and Seal of Professional Surveyor:
	Jason C. Edwards
	Certificate Number 15269

ENERGEN

R E S O U R C E S

Energen Resources Corp.

SJBR Sec.27-T32N-R6W

Eul Canyon

San Juan 32-5 Unit #108S ST

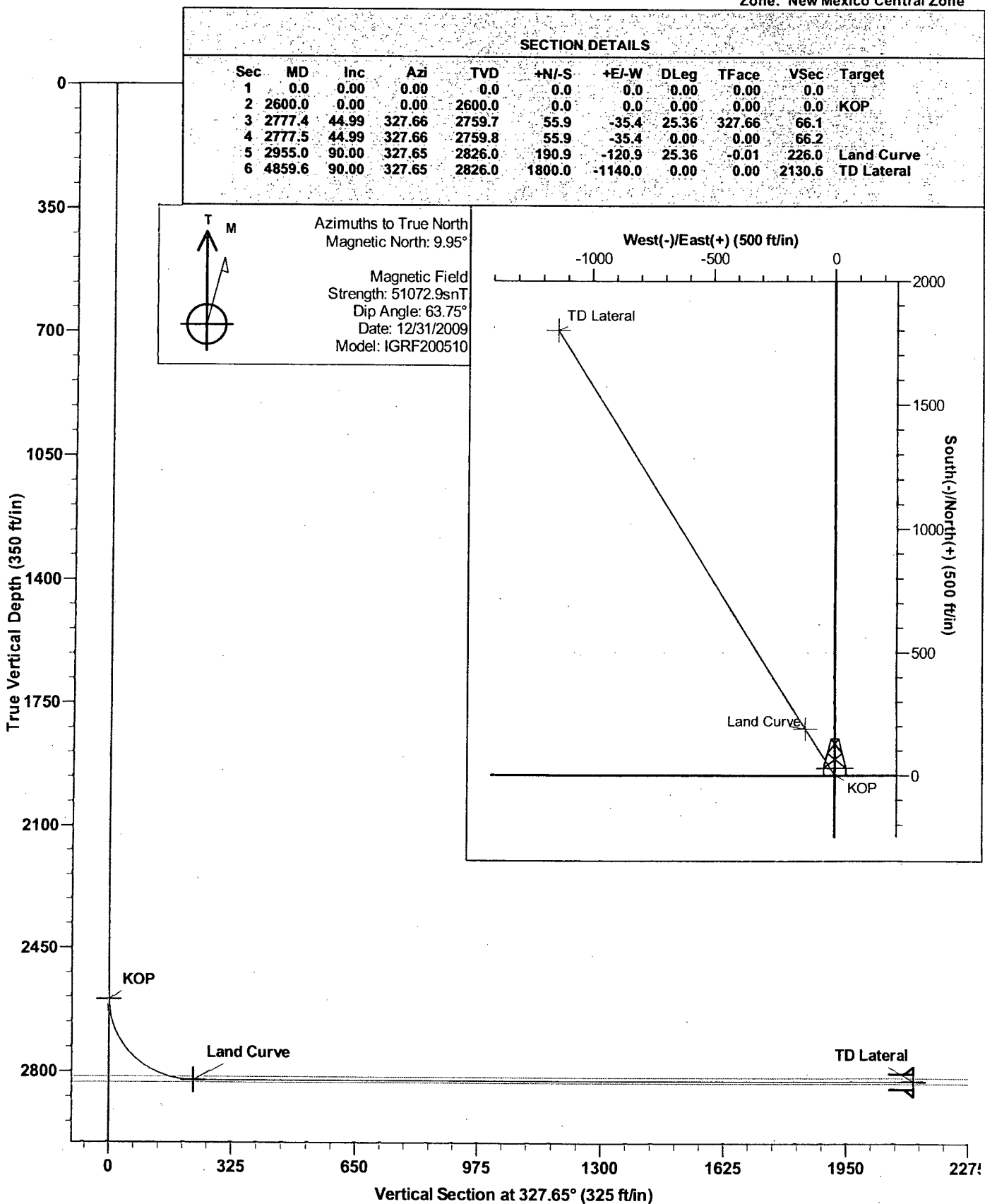
Re-Entry Sidetrack OPE FTC

Plan: Plan #2

DIRECTIONAL PLAN

14 January, 2011

Prepared By: Stephen Byers



Energen

DIRECTIONAL PLAN

Company: Energen Resources
Project: SJBR Sec.27-T32N-R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #108S ST
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Plan #2

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

Project	SJBR Sec.27-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:	2,165,891.01 ft	Latitude:	36° 56' 46.392 N
From:	Lat/Long	Easting:	1,292,438.67 ft	Longitude:	107° 26' 26.988 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-0.72 °

Well	San Juan 32-5 Unit #108S ST					
Well Position	+N/-S	0.0 ft	Northing:	2,165,891.01 ft	Latitude:	36° 56' 46.392 N
	+E/-W	0.0 ft	Easting:	1,292,438.67 ft	Longitude:	107° 26' 26.988 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	6,132.0 ft	Ground Level:	6,132.0 ft

Wellbore	Re-Entry Sidetrack OPE FTC				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	9.95	63.75	51,073

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	327.65

Survey Tool Program	Date 1/14/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	4,859.6	Plan #2 (Re-Entry Sidetrack OPE FTC)	MWD	MWD - Standard

Planned Survey							
MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	N/S (ft)	E/W (ft)	V. Sec (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

Energen

DIRECTIONAL PLAN

Company: Energen Resources
Project: SJBR Sec.27-T32N-R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #108S ST
Wellbore: Re-Entry Sidetrack OPE FTC
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North Reference: True
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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)
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
2,600.0	2,600.0	0.00	0.00	0.00	0.0	0.0	0.0
KOP							
2,620.0	2,620.0	5.07	327.66	25.36	0.7	-0.5	0.9
2,640.0	2,639.8	10.14	327.66	25.36	3.0	-1.9	3.5
2,660.0	2,659.3	15.21	327.66	25.36	6.7	-4.2	7.9
2,680.0	2,678.3	20.29	327.66	25.36	11.8	-7.5	14.0
2,700.0	2,696.8	25.36	327.66	25.36	18.4	-11.6	21.8
2,720.0	2,714.4	30.43	327.66	25.36	26.3	-16.7	31.1
2,740.0	2,731.2	35.50	327.66	25.36	35.5	-22.5	42.0
2,760.0	2,747.0	40.57	327.66	25.36	45.9	-29.1	54.3
2,777.4	2,759.7	44.99	327.66	25.33	55.9	-35.4	66.1
2,777.5	2,759.8	44.99	327.66	0.00	55.9	-35.4	66.2
2,780.0	2,761.6	45.62	327.66	25.36	57.4	-36.4	68.0
2,800.0	2,774.9	50.69	327.65	25.36	70.0	-44.3	82.9
2,820.0	2,786.9	55.77	327.65	25.36	83.5	-52.9	98.9
2,840.0	2,797.4	60.84	327.65	25.36	97.9	-62.0	115.9
2,860.0	2,806.3	65.91	327.65	25.36	113.0	-71.6	133.8
2,880.0	2,813.7	70.98	327.65	25.36	128.7	-81.5	152.4
2,887.5	2,816.0	72.88	327.65	25.36	134.7	-85.3	159.5
Top Target Coal							
2,900.0	2,819.3	76.06	327.65	25.36	144.9	-91.8	171.5
2,920.0	2,823.3	81.13	327.65	25.36	161.5	-102.3	191.1
2,940.0	2,825.5	86.20	327.65	25.36	178.3	-112.9	211.0
2,955.0	2,826.0	90.00	327.65	25.39	190.9	-120.9	226.0
Land Curve							
3,000.0	2,826.0	90.00	327.65	0.00	228.9	-145.0	271.0
3,100.0	2,826.0	90.00	327.65	0.00	313.4	-198.5	371.0
3,200.0	2,826.0	90.00	327.65	0.00	397.9	-252.0	471.0
3,300.0	2,826.0	90.00	327.65	0.00	482.4	-305.5	571.0
3,400.0	2,826.0	90.00	327.65	0.00	566.9	-359.0	671.0
3,500.0	2,826.0	90.00	327.65	0.00	651.3	-412.5	771.0

Energen

DIRECTIONAL PLAN

Company: Energen Resources
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Wellbore: Re-Entry Sidetrack OPE FTC
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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)
3,600.0	2,826.0	90.00	327.65	0.00	735.8	-466.1	871.0
3,700.0	2,826.0	90.00	327.65	0.00	820.3	-519.6	971.0
3,800.0	2,826.0	90.00	327.65	0.00	904.8	-573.1	1,071.0
3,900.0	2,826.0	90.00	327.65	0.00	989.3	-626.6	1,171.0
4,000.0	2,826.0	90.00	327.65	0.00	1,073.7	-680.1	1,271.0
4,100.0	2,826.0	90.00	327.65	0.00	1,158.2	-733.6	1,371.0
4,200.0	2,826.0	90.00	327.65	0.00	1,242.7	-787.1	1,471.0
4,300.0	2,826.0	90.00	327.65	0.00	1,327.2	-840.6	1,571.0
4,400.0	2,826.0	90.00	327.65	0.00	1,411.7	-894.1	1,671.0
4,500.0	2,825.9	90.00	327.65	0.00	1,496.1	-947.6	1,771.0
4,600.0	2,825.9	90.00	327.65	0.00	1,580.6	-1,001.1	1,871.0
4,700.0	2,825.9	90.00	327.65	0.00	1,665.1	-1,054.7	1,971.0
4,800.0	2,825.9	90.00	327.65	0.00	1,749.6	-1,108.2	2,071.0
4,859.6	2,826.0	90.00	327.65	-0.01	1,800.0	-1,140.0	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
KOP - plan hits target - Point	0.00	0.00	2,600.0	0.0	0.0	2,165,891.01	1,292,438.67	36° 56' 46.392 N	107° 26' 26.988 W
TD Lateral - plan hits target - Point	0.00	0.00	2,826.0	1,800.0	-1,140.0	2,167,705.11	1,291,321.24	36° 57' 4.189 N	107° 26' 41.032 W
Land Curve - plan hits target - Point	0.00	0.00	2,826.0	190.9	-120.9	2,166,083.40	1,292,320.16	36° 56' 48.279 N	107° 26' 28.477 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
4,859.0	2,825.9	Liner	4-1/2	6-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,887.5	2,816.0	Top Target Coal		0.00	
	2,832.0	Base Target Coal		0.00	

Checked By: _____ Approved By: _____ Date: _____