

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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.

JUL 07 2009

5. Lease Serial No.

NM 30014

6. If Indian, Allottee or Tribe Name

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

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)

SHL: (F) Sec.16, T32N, R4W 1385'ENL & 1525'FWL

BHL: (A) Sec.16, T32N, R4W 600'ENL & 110'FEL

8 Well Name and No.

Carracas 16B # 1

9 API Well No.

30-039-30465

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 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 change to the Carracas 16B #1. The changes will be pertaining to the landing point of the 7" int. casing and the BHL:

- * Change kick-off point to 2451' MD
- * Change int. casing setting measured depth (MD) TD to 4460' MD and cement with 584 sks lead followed by 115 sks tail.
- * Change the TD of the well to 6891' (MD) and run the 4 1/2" liner to this depth with a new liner top of 4400' (MD).
- * Change the bottom hole footage location to 600'ENL 110'FEL

RCVD JUL 14 '09
OIL CONS. DIV.

Attached is a revised directional drilling and operations plan.

The changes made reflect NMOC approval for order no. R-13119 Carracas Canyon. ✓

DIST. 3

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

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

Name (Printed/Typed)

Devin Mills

Title Drilling Engineer

Signature

Date 7/6/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salyers

Title

Petroleum Engineer

Date

7/13/2009

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

FFO

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.

NMOC

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 30-039-30465	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code	⁵ Property Name Carracas 16B	⁶ Well Number #1
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 6860' GL

¹⁰ Surface Location

UL or lot no. F	Section 16	Township 32N	Range 4W	Lot Idn	Feet from the 1385	North/South line North	Feet from the 1525	East/West line West	County Rio Arriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 16	Township 32N	Range 4W	Lot Idn	Feet from the 600	North/South line North	Feet from the 110	East/West line East	County Rio Arriba
¹² Dedicated Acres 320 N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13119						

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.

	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. Signature Date 7/10/2009 Devin Mills Printed Name
	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. 10/24/2007 Date of Survey Signature and Seal of Professional Surveyor Original Survey Conducted and Recorded By: David R. Russell 10201 Certificate Number

Operations Plan

June 26, 2009

Carracas 16 B 1

General Information

Location	1385' fnl, 1525' fwl at surface 600' fnl, 110' fel at bottom se 16, T32N, R4W Rio Arriba County, New Mexico
	SHL: (SWNW)
Elevations	6860' GL
Total Depth	6891' (MD), 3723' (TVD)
Formation Objective	Basin Fruitland Coal

Formation Tops

San Jose	Surface
Nacimiento	1897' (TVD), 1897' (MD)
Ojo Alamo Ss	3052' (TVD), 3077' (MD)
Kirtland Sh	3177' (TVD), 3224' (MD)
Fruitland Fm	3477' (TVD), 3645' (MD)
Top Coal	3723' (TVD), 4449' (MD)
Bottom Coal	3749' (TVD)
Total Depth	3723' (TVD), 6891' (MD)

Drilling

The 12 1/4" wellbore will be drilled with a fresh water mud system.

The 8 3/4" wellbore will be drilled with a low solids fresh water/polymer mud system. Weighting materials will be drill cuttings and if needed barite. Mud density is expected to range from 8.5 ppg to 8.8 ppg.

Projected KOP is 2451' TVD with 4.5°/100' doglegs.

The 6 1/4" wellbore will be drilled with a fresh water or brine water system depending on reservoir characteristics. Anticipated BHP can be as high as 1100 psi. ✓

Blowout Control Specifications:

A 2000 psi minimum double ram or annulus BOP stack will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle and drill string valve should be available to fit each drill string and be available on the rig floor during drilling operations. ✓

Logging Program:

Open hole logs: None

Mud logs: From 3477' (TVD), 3645' (MD) to TD.

Surveys: Surface to KOP every 500' and a minimum of every 250' for directional.

Tubulars

Casing, Tubing, & Casing Equipment:

String	Interval	Wellbore	Casing	Csg Wt	Grade
Surface	0'-300'	12 1/4"	9 5/8"	32.3 ppf	H-40 ST&C
Intermediate	0'-3723' (TVD) 4460' (MD)	8 3/4"	7"	23.0 ppf	J-55 LT&C
Production	3722'-3723' (TVD) 4400'-6892' (MD)	6 1/4"	4 1/2"	11.6 ppf	J-55 LT&C
Tubing	0'-4220' (MD)		2 3/8"	4.7 ppf	J-55

Casing Equipment:

Surface Casing: Depending on wellbore conditions, a Texas Pattern Guide Shoe on bottom. Casing centralization with standard bow spring centralizers to achieve optimal standoff.

Intermediate Casing: Depending on wellbore conditions, a Cement nose guide shoe with self fill insert float collar on top of bottom joint and casing centralization with standard bow spring and rigid centralizers to optimize standoff. Two turbolating centralizers at the base of the Ojo Alamo are recommended.

Liner: Bull nose guide shoe on bottom of first joint, H-Latch liner drop off tool on top of last joint.

Wellhead

3000 psi 11" x 9 5/8" casing head. 9 5/8" x 7" x 2 3/8" 3000 psi Flanged Wellhead .

Cementing

Surface Casing: 203 sks Std (class B) with 2.0 % CaCl₂ and 1/4 #/sk Flocele (15.6 ppg, 1.18 ft³/sk ~~148 ft³~~ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 750 psi for 30 min. ✓

Intermediate Casing: Before cementing, circulate hole at least 1 1/2 hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist of 584 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and 1/2 #/sk Flocele (12.3 ppg, 1.96 ft³/sk) and a tail of 115 sks Type V with 1/4 #/sk Flocele (15.6 ppg, 1.18 ft³/sk). ~~(878 ft³ of slurry, 20% excess to circulate to surface).~~ Test casing to 1500 psi for 30 min.
 240 ft³ 1280 ft³ 100%

Other Information

- 1) This well will be an open hole completion lined with an uncemented pre-drilled liner.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The intermediate string may need to be cemented in multiple stages with a slurry design deviated from that listed above.
- 3) If high reservoir pressures or water flows are encountered, slurry design may need to be deviated from those listed above to satisfy wellbore and formation conditions.
- 4) No abnormal temperatures or pressures are anticipated. This gas is dedicated.
- 5) 16 B 6: Assumed vertical from 1450' fnl, 1480' fwl.

Energen Resources

Carson National Forest

16B: Sec 16 T32N 4W

Carracas 16B #1

Wellbore #1

Plan: Design #~~1~~ 2

APD REPORT

07 July, 2009

Energen

APD REPORT

Company: Energen Resources Project: Carson National Forest Site: 16B: Sec 16 T32N 4W Well: Carracas 16B #1 Wellbore: Wellbore #1 Design: Design #1	Local Co-ordinate Reference: Well Carracas 16B #1 TVD Reference: WELL @ 6877.0ft (Original Well Elev) MD Reference: WELL @ 6877.0ft (Original Well Elev) North Reference: True Survey Calculation Method: Minimum Curvature Database: EDM 2003 21 Single User Db	
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Project	Carson National Forest		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	16B: Sec 16 T32N 4W		
Site Position:		Northing:	2,181,235.96ft
From:	Lat/Long	Easting:	1,344,308.61ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 59' 24.036 N
		Longitude:	107° 15' 50.076 W
		Grid Convergence:	-0.61 °

Well	Carracas 16B #1		
Well Position	+N-S	0.0 ft	Northing: 2,181,235.96 ft
	+E-W	0.0 ft	Easting: 1,344,308.61ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 59' 24.036 N
		Longitude:	107° 15' 50.076 W
		Ground Level:	6,860.0ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	6/26/2009	(°)
			9.94
			Dip Angle (°)
			63.83
			Field Strength (nT)
			51,165

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction: 78.20
			(°)

Survey Tool Program	Date 6/26/2009	
From	To	Survey (Wellbore)
(ft)	(ft)	
0.0	6,891.0	Design #1 (Wellbore #1)
		Tool Name
		MWD
		Description
		MWD - Standard

Planned Survey									
MD	TVD	Inc	Azi	Build	V. Sec	Northing	Easting		
(ft)	(ft)	(°)	(azimuth)	(°/100ft)	(ft)	(ft)	(ft)		
			(°)						
0.0	0.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
100.0	100.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
200.0	200.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
300.0	300.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
400.0	400.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
500.0	500.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
600.0	600.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
700.0	700.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
800.0	800.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
900.0	900.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
1,000.0	1,000.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		
1,100.0	1,100.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61		

Energen APD REPORT

Company: Energen Resources
Project: Carson National Forest
Site: 16B: Sec 16 T32N 4W
Well: Carracas 16B #1
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Carracas 16B #1
TVD Reference: WELL @ 6877.0ft (Original Well Elev)
MD Reference: WELL @ 6877.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 21 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (azimuth) (°)	Build (°/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
1,200.0	1,200.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
1,300.0	1,300.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
1,400.0	1,400.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
1,500.0	1,500.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
1,600.0	1,600.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
1,700.0	1,700.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
1,800.0	1,800.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
1,900.0	1,900.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
2,000.0	2,000.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
2,100.0	2,100.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
2,200.0	2,200.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
2,300.0	2,300.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
2,400.0	2,400.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
2,451.0	2,451.0	0.00	0.00	0.00	0.0	2,181,235.96	1,344,308.61
2,500.0	2,500.0	2.21	78.20	4.50	0.9	2,181,236.15	1,344,309.54
2,600.0	2,599.7	6.71	78.20	4.50	8.7	2,181,237.66	1,344,317.16
2,700.0	2,698.4	11.22	78.20	4.50	24.3	2,181,240.68	1,344,332.44
2,800.0	2,795.6	15.72	78.20	4.50	47.6	2,181,245.20	1,344,355.28
2,900.0	2,890.7	20.22	78.20	4.50	78.4	2,181,251.18	1,344,385.54
3,000.0	2,983.1	24.73	78.20	4.50	116.6	2,181,258.60	1,344,423.04
3,100.0	3,072.2	29.23	78.20	4.50	162.0	2,181,267.40	1,344,467.54
3,200.0	3,157.5	33.74	78.20	4.50	214.2	2,181,277.54	1,344,518.76
3,300.0	3,238.4	38.24	78.20	4.50	273.0	2,181,288.94	1,344,576.39
3,400.0	3,314.4	42.75	78.20	4.50	337.9	2,181,301.54	1,344,640.08
3,500.0	3,385.1	47.25	78.20	4.50	408.6	2,181,315.25	1,344,709.42
3,600.0	3,450.0	51.76	78.20	4.50	484.6	2,181,330.01	1,344,784.00
3,700.0	3,508.7	56.26	78.20	4.50	565.5	2,181,345.70	1,344,863.35
3,800.0	3,561.0	60.76	78.20	4.50	650.7	2,181,362.25	1,344,946.99
3,900.0	3,606.3	65.27	78.20	4.50	739.8	2,181,379.54	1,345,034.38
4,000.0	3,644.6	69.77	78.20	4.50	832.2	2,181,397.46	1,345,125.00
4,100.0	3,675.4	74.28	78.20	4.50	927.3	2,181,415.92	1,345,218.29
4,200.0	3,698.7	78.78	78.20	4.50	1,024.5	2,181,434.79	1,345,313.67
4,300.0	3,714.3	83.29	78.20	4.50	1,123.3	2,181,453.95	1,345,410.54
4,400.0	3,722.1	87.79	78.20	4.50	1,223.0	2,181,473.29	1,345,508.32
4,449.1	3,723.0	90.00	78.20	4.50	1,272.0	2,181,482.81	1,345,556.43
4,500.0	3,723.0	90.00	78.20	0.00	1,322.9	2,181,492.70	1,345,606.40
4,600.0	3,723.0	90.00	78.20	0.00	1,422.9	2,181,512.10	1,345,704.50
4,700.0	3,723.0	90.00	78.20	0.00	1,522.9	2,181,531.51	1,345,802.60
4,800.0	3,723.0	90.00	78.20	0.00	1,622.9	2,181,550.91	1,345,900.70
4,900.0	3,723.0	90.00	78.20	0.00	1,722.9	2,181,570.32	1,345,998.80
5,000.0	3,723.0	90.00	78.20	0.00	1,822.9	2,181,589.73	1,346,096.90
5,100.0	3,723.0	90.00	78.20	0.00	1,922.9	2,181,609.13	1,346,195.00
5,200.0	3,723.0	90.00	78.20	0.00	2,022.9	2,181,628.54	1,346,293.10
5,300.0	3,723.0	90.00	78.20	0.00	2,122.9	2,181,647.94	1,346,391.19

Energen

APD REPORT

Company: Energen Resources
Project: Carson National Forest
Site: 16B: Sec 16 T32N 4W
Well: Carracas 16B #1
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Carracas 16B #1
TVD Reference: WELL @ 6877.0ft (Original Well Elev)
MD Reference: WELL @ 6877.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.21 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (azimuth) (°)	Build (°/100ft)	V. Sec (ft)	Northing (ft)	Easting (ft)
5,400.0	3,723.0	90.00	78.20	0.00	2,222.9	2,181,667.35	1,346,489.29
5,500.0	3,723.0	90.00	78.20	0.00	2,322.9	2,181,686.76	1,346,587.39
5,600.0	3,723.0	90.00	78.20	0.00	2,422.9	2,181,706.16	1,346,685.49
5,700.0	3,723.0	90.00	78.20	0.00	2,522.9	2,181,725.57	1,346,783.59
5,800.0	3,723.0	90.00	78.20	0.00	2,622.9	2,181,744.98	1,346,881.69
5,900.0	3,723.0	90.00	78.20	0.00	2,722.9	2,181,764.38	1,346,979.79
6,000.0	3,723.0	90.00	78.20	0.00	2,822.9	2,181,783.79	1,347,077.89
6,100.0	3,723.0	90.00	78.20	0.00	2,922.9	2,181,803.19	1,347,175.98
6,200.0	3,723.0	90.00	78.20	0.00	3,022.9	2,181,822.60	1,347,274.08
6,300.0	3,723.0	90.00	78.20	0.00	3,122.9	2,181,842.01	1,347,372.18
6,400.0	3,723.0	90.00	78.20	0.00	3,222.9	2,181,861.41	1,347,470.28
6,500.0	3,723.0	90.00	78.20	0.00	3,322.9	2,181,880.82	1,347,568.38
6,600.0	3,723.0	90.00	78.20	0.00	3,422.9	2,181,900.22	1,347,666.48
6,700.0	3,723.0	90.00	78.20	0.00	3,522.9	2,181,919.63	1,347,764.58
6,800.0	3,723.0	90.00	78.20	0.00	3,622.9	2,181,939.04	1,347,862.68
6,891.0	3,723.0	90.00	78.20	0.00	3,713.9	2,181,956.70	1,347,951.95

Checked By: _____ Approved By: _____ Date: _____

PROJECT DETAILS: Carson National Forest

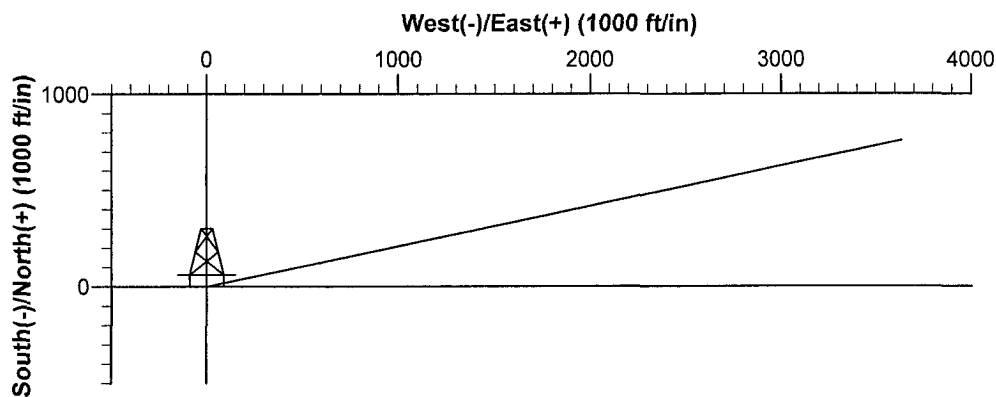
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Central Zone
 System Datum: Mean Sea Level

Azimuths to True North
 Magnetic North: 9.94°
 Magnetic Field
 Strength: 51165.1snT
 Dip Angle: 63.83°
 Date: 6/26/2009
 Model: IGRF200510

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	2451.0	0.00	0.00	2451.0	0.0	0.0	0.00	0.00	0.0	
3	4449.1	90.00	78.20	3723.0	260.1	1245.1	4.50	78.20	1272.0	
4	6891.0	90.00	78.20	3723.0	759.5	3635.5	0.00	0.00	3713.9	

True Vertical Depth (500 ft/in)



Vertical Section at 78.20° (1500 ft/in)