



MAR 31 2008
OCD-ARTESIA

(432) 686-3642 Office
(432) 770-0602 Cell
Donny_Glanton@eogresources.com

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

3/28/2008

OCD-Artesia
1301 W. Grand Avenue
Artesia, NM 88210

Re: BOW RIVER 28 STATE 1H 30-015-36244
BOW RIVER 28 STATE 2H 30-015-36243

As per the submittal comments of the C-101 (Electronic Permitting Application) for the above captioned well, please find the following additional information submitted for your review and processing.

- Well Plat
- Detailed Casing
- Mud
- Cement
- Drilling Plan
- H₂S Letter

Should you have any additional questions, please feel to give me a call.

Thanks and best regards.

Very truly yours,

Donny G. Glanton
Sr. Lease Operations ROW Representative

Accepted for record
RMOCD

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

MAR 31 2008
OCD-ARTESIA

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

API Number 30-015-36244	Pool Code 97415	Pool Name Four Mile Draw; Wolfcamp (G)
Property Code 37084	Property Name BOW RIVER "28" STATE	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES INC.	Elevation 3992'

Surface Location

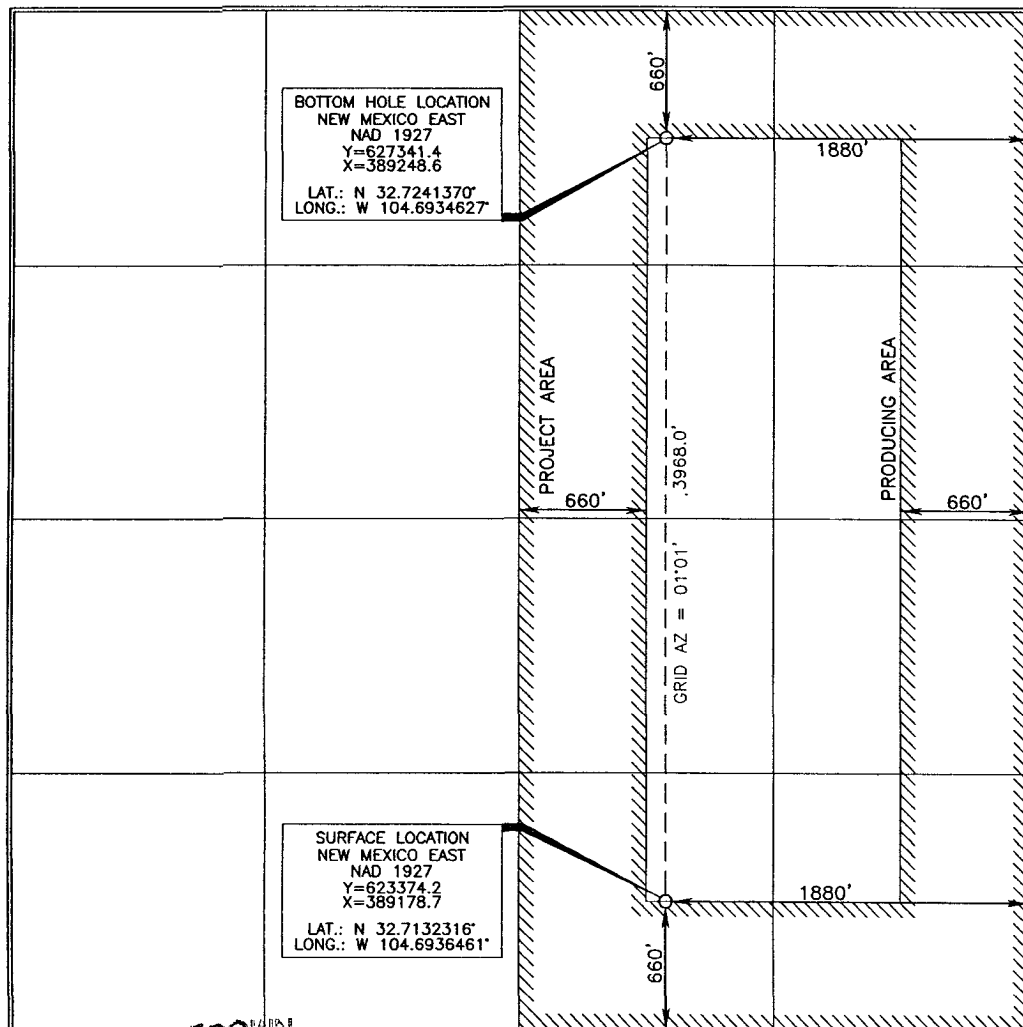
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	28	18 SOUTH	23 EAST, N.M.P.M.		660'	SOUTH	1880'	EAST	EDDY

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
B	28	18 SOUTH	23 EAST, N.M.P.M.		660'	NORTH	1880'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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.



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.

Donny G. Glanton 3/11/08
Signature Date

Donny G. Glanton
Printed Name

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.

15079
FEBRUARY 7, 2008
Date of Survey
Signature and Seal of Professional Surveyor
Serry J. Dool 2/11/2008
Certificate Number 15079

WO# 080207WL-d (KA)

Accepted for record

Permit Information:

Well Name: Bow River 28 State #2H

Location:

SL 660' FSL & 1880' FEL, Section 28, T-18-S, R-23-E, Eddy Co., N.M.

BHL 660' FNL & 1880' FEL, Section 28, T-18-S, R-23-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,200'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,302'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
1,200'	345	Lead: 35:65 Poz C + 4% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 5 pps LCM-1 + 5% NaCl + 5% MPA-5 + 0.8% SMS
	400	Tail: Class C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,302'	630	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	745	Tail: 50:50 Poz:Class C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3% FL-2A + 0.2% CD-32 + 0.05% R-3

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200' – 4,300'	Cut Brine	8.8-9.2	28-34	N/c
4,300' – 5,000'	Cut Brine	8.8-9.2	28-34	10-15
4,058' – 8,302'	Polymer (Lateral)	9.0-9.4	40-45	10-25

Accepted for record
NMOCD



EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

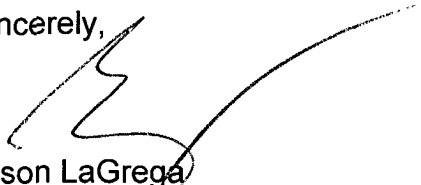
March 24, 2008

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Bow River 28 State #2H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,



Jason LaGrega
Drilling Engineer

Accepted for record
NMOCB

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Bow River 28 State #2H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 4011.00ft (Original Well Elev)
Project:	Thames	MD Reference:	WELL @ 4011.00ft (Original Well Elev)
Site:	Bow River 28 State #2H	North Reference:	Grid
Well:	Bow River 28 State #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Bow River 28 State #2H		
Design:	Original Plan		

Project	Thames		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Bow River 28 State #2H			
Site Position:		Northing:	623,374.20ft	Latitude:	32° 42' 47 646 N
From:	Map	Easting:	389,178.70ft	Longitude:	104° 41' 37 116 W
Position Uncertainty:	0 00 ft	Slot Radius:	"	Grid Convergence:	-0.19 ?

Well	Bow River 28 State #2H					
Well Position	+N-S	0 00 ft	Northing:	623,374 20 ft	Latitude:	32° 42' 47 646 N
	+E-W	0.00 ft	Easting:	389,178.70 ft	Longitude:	104° 41' 37.116 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,992 00ft

Wellbore	Bow River 28 State #2H				
Magnetics	Model Name	Sample Date	Declination (?)	Dip Angle (?)	Field Strength (nT)
	IGRF2005	3/28/2008	8.50	60.50	49,052

Design		Original Plan		
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(?)
	4,454 00	0 00	0 00	1 01

Plan Sections										
Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)	TFO (?)	Target
0.00	0 00	0 00	0.00	0 00	0 00	0.00	0 00	0.00	0.00	
4,058.00	0 00	360 00	4,058.00	0 00	0 00	0.00	0 00	0.00	360 00	
4,815.12	90 00	1 01	4,540.00	481.93	8.50	11.89	11.89	0 00	1 01	
5,815.12	90 00	1 01	4,540 00	1,481 77	26.12	0 00	0.00	0.00	0 00	
5,882.07	92 01	1.01	4,538 83	1,548.69	27.30	3 00	3.00	0 00	-0.03	
8,302.16	92 01	1 01	4,454.01	3,966.92	69.90	0 00	0 00	0 00	0 00	
8,302 45	92 00	1 01	4,454 00	3,967.21	69 90	3 00	-2.98	0.33	173.64 BHL (Bow #2H)	

Accepted for record
NMOCB

EOG Resources Inc

Planning Report

Database: EDM
 Company: Midland - New Mexico
 Project: Thames
 Site: Bow River 28 State #2H
 Well: Bow River 28 State #2H
 Wellbore: Bow River 28 State #2H
 Design: Original Plan

Local Co-ordinate Reference: Well Bow River 28 State #2H
 TVD Reference: WELL @ 4011.00ft (Original Well Elev)
 MD Reference: WELL @ 4011.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	360.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	360.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	360.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	360.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	360.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	360.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	360.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	360.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	360.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	360.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	360.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	360.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	360.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	360.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	360.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	360.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	360.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	360.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	360.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	360.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	360.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	360.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	360.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	360.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	360.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	360.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	360.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	360.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	360.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	360.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	360.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	360.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	360.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	360.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	360.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	360.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	360.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	360.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	360.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	360.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,058.00	0.00	360.00	4,058.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	4.99	1.01	4,099.95	1.83	0.03	1.83	11.89	11.89	0.00
4,200.00	16.88	1.01	4,197.95	20.76	0.37	20.77	11.89	11.89	0.00
4,300.00	28.77	1.01	4,289.96	59.48	1.05	59.49	11.89	11.89	0.00
4,400.00	40.65	1.01	4,372.02	116.31	2.05	116.33	11.89	11.89	0.00
4,500.00	52.54	1.01	4,440.61	188.82	3.33	188.85	11.89	11.89	0.00
4,600.00	64.43	1.01	4,492.79	273.90	4.83	273.95	11.89	11.89	0.00
4,700.00	76.32	1.01	4,526.32	367.91	6.49	367.97	11.89	11.89	0.00
4,800.00	88.20	1.01	4,539.76	466.81	8.23	466.88	11.89	11.89	0.00
4,815.12	90.00	1.01	4,540.00	481.93	8.50	482.00	11.89	11.89	0.00
4,900.00	90.00	1.01	4,540.00	566.79	9.99	566.88	0.00	0.00	0.00
5,000.00	90.00	1.01	4,540.00	666.77	11.75	666.88	0.00	0.00	0.00
5,100.00	90.00	1.01	4,540.00	766.76	13.52	766.88	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bow River 28 State #2H
Well: Bow River 28 State #2H
Wellbore: Bow River 28 State #2H
Design: Original Plan

Local Co-ordinate Reference: Well Bow River 28 State #2H
TVD Reference: WELL @ 4011.00ft (Original Well Elev)
MD Reference: WELL @ 4011.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
5,200.00	90.00	1.01	4,540.00	866.74	15.28	866.88	0.00	0.00	0.00
5,300.00	90.00	1.01	4,540.00	966.73	17.04	966.88	0.00	0.00	0.00
5,400.00	90.00	1.01	4,540.00	1,066.71	18.81	1,066.88	0.00	0.00	0.00
5,500.00	90.00	1.01	4,540.00	1,166.69	20.57	1,166.88	0.00	0.00	0.00
5,600.00	90.00	1.01	4,540.00	1,266.68	22.33	1,266.88	0.00	0.00	0.00
5,700.00	90.00	1.01	4,540.00	1,366.66	24.09	1,366.88	0.00	0.00	0.00
5,800.00	90.00	1.01	4,540.00	1,466.65	25.86	1,466.88	0.00	0.00	0.00
5,815.12	90.00	1.01	4,540.00	1,481.77	26.12	1,482.00	0.00	0.00	0.00
5,882.07	92.01	1.01	4,538.83	1,548.69	27.30	1,548.93	3.00	3.00	0.00
5,900.00	92.01	1.01	4,538.20	1,566.61	27.62	1,566.85	0.00	0.00	0.00
6,000.00	92.01	1.01	4,534.69	1,666.53	29.38	1,666.79	0.00	0.00	0.00
6,100.00	92.01	1.01	4,531.19	1,766.45	31.14	1,766.73	0.00	0.00	0.00
6,200.00	92.01	1.01	4,527.68	1,866.38	32.90	1,866.67	0.00	0.00	0.00
6,300.00	92.01	1.01	4,524.18	1,966.30	34.66	1,966.61	0.00	0.00	0.00
6,400.00	92.01	1.01	4,520.67	2,066.22	36.42	2,066.54	0.00	0.00	0.00
6,500.00	92.01	1.01	4,517.17	2,166.15	38.18	2,166.48	0.00	0.00	0.00
6,600.00	92.01	1.01	4,513.67	2,266.07	39.94	2,266.42	0.00	0.00	0.00
6,700.00	92.01	1.01	4,510.16	2,365.99	41.70	2,366.36	0.00	0.00	0.00
6,800.00	92.01	1.01	4,506.66	2,465.92	43.46	2,466.30	0.00	0.00	0.00
6,900.00	92.01	1.01	4,503.15	2,565.84	45.22	2,566.24	0.00	0.00	0.00
7,000.00	92.01	1.01	4,499.65	2,665.76	46.98	2,666.18	0.00	0.00	0.00
7,100.00	92.01	1.01	4,496.14	2,765.68	48.74	2,766.11	0.00	0.00	0.00
7,200.00	92.01	1.01	4,492.64	2,865.61	50.50	2,866.05	0.00	0.00	0.00
7,300.00	92.01	1.01	4,489.13	2,965.53	52.26	2,965.99	0.00	0.00	0.00
7,400.00	92.01	1.01	4,485.63	3,065.45	54.02	3,065.93	0.00	0.00	0.00
7,500.00	92.01	1.01	4,482.12	3,165.38	55.78	3,165.87	0.00	0.00	0.00
7,600.00	92.01	1.01	4,478.62	3,265.30	57.54	3,265.81	0.00	0.00	0.00
7,700.00	92.01	1.01	4,475.11	3,365.22	59.30	3,365.75	0.00	0.00	0.00
7,800.00	92.01	1.01	4,471.61	3,465.15	61.06	3,465.68	0.00	0.00	0.00
7,900.00	92.01	1.01	4,468.10	3,565.07	62.82	3,565.62	0.00	0.00	0.00
8,000.00	92.01	1.01	4,464.60	3,664.99	64.58	3,665.56	0.00	0.00	0.00
8,100.00	92.01	1.01	4,461.10	3,764.92	66.34	3,765.50	0.00	0.00	0.00
8,200.00	92.01	1.01	4,457.59	3,864.84	68.10	3,865.44	0.00	0.00	0.00
8,300.00	92.01	1.01	4,454.09	3,964.76	69.86	3,965.38	0.00	0.00	0.00
8,302.16	92.01	1.01	4,454.01	3,966.92	69.90	3,967.54	0.00	0.00	0.00
8,302.45	92.00	1.01	4,454.00	3,967.21	69.90	3,967.82	3.00	-2.98	0.33

BHL (Bow #2H)

Targets

Target Name

- hit/miss target	Dip Angle (?)	Dip Dir. (?)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
BHL (Bow #2H)	0.00	0.00	4,454.00	3,967.21	69.90	627,341.40	389,248.60	32° 43' 26.906 N	104° 41' 36.456 W
- plan hits target center									
- Point									

WELL DETAILS: Bow River 28 State #2H

+N/-S	+E/-W	Northing	Ground Level:	3992.00		
0.00	0.00	623374.20	Easting	389178.70	Latitude	Longitude
					32° 42' 47.646 N	104° 41' 37.116 W
						Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFac	Target	Sec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4058.00	0.00	360.00	4058.00	0.00	0.00	0.00	360.00	0.00	
3	4815.12	90.00	1.01	4540.00	481.93	8.50	11.89	1.01	482.00	
4	5815.12	90.00	1.01	4540.00	1481.77	26.12	0.00	0.00	1482.00	
5	5882.07	92.01	1.01	4538.83	1548.69	27.30	3.00	-0.03	1548.93	
6	8302.16	92.01	1.01	4454.01	3966.92	69.90	0.00	0.00	3967.54	
7	8302.45	92.00	1.01	4454.00	3967.21	69.90	3.00	0.00	3967.82	

