

"AS DRILLED"

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

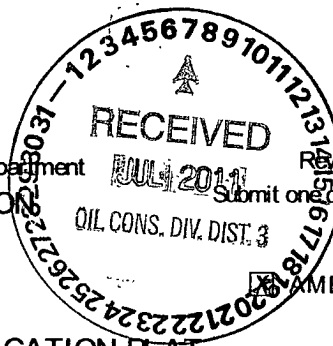
District III

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 30-039-27700		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 111 S
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation		⁹ Elevation 6522'

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
I	30	32N	5W	3	2300	South	950	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
P	30	32N	5W	4	157	South	843	East	Rio Arriba

¹² Dedicated Acres 345.59 acres All of Sec 30 & 31	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSP 1847
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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.

16 Producing Interval: From the lower isolating swell packer set at 3,018' MD @ 2258' FSL, 937' FEL to the BHL @ 157' FSL, 843' FEL				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: <i>Stephen Byers</i> Date: 05/15/2011 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. August 25, 2003 Date of Survey Signature and Seal of Professional Surveyor: Jason C. Edwards Certificate Number 10201			

A EP

blm 4-17-11



Energen Resources

SJBR Sec 30-T32N-R05W

Eul Canyon

San Juan 32-5 Unit #111S

Re-Entry Sidetrack OPE FTC

Design: Re-Entry Sidetrack OPE FTC

Energen Planning Report

05 May, 2011



PATHFINDER

A Schlumberger Company

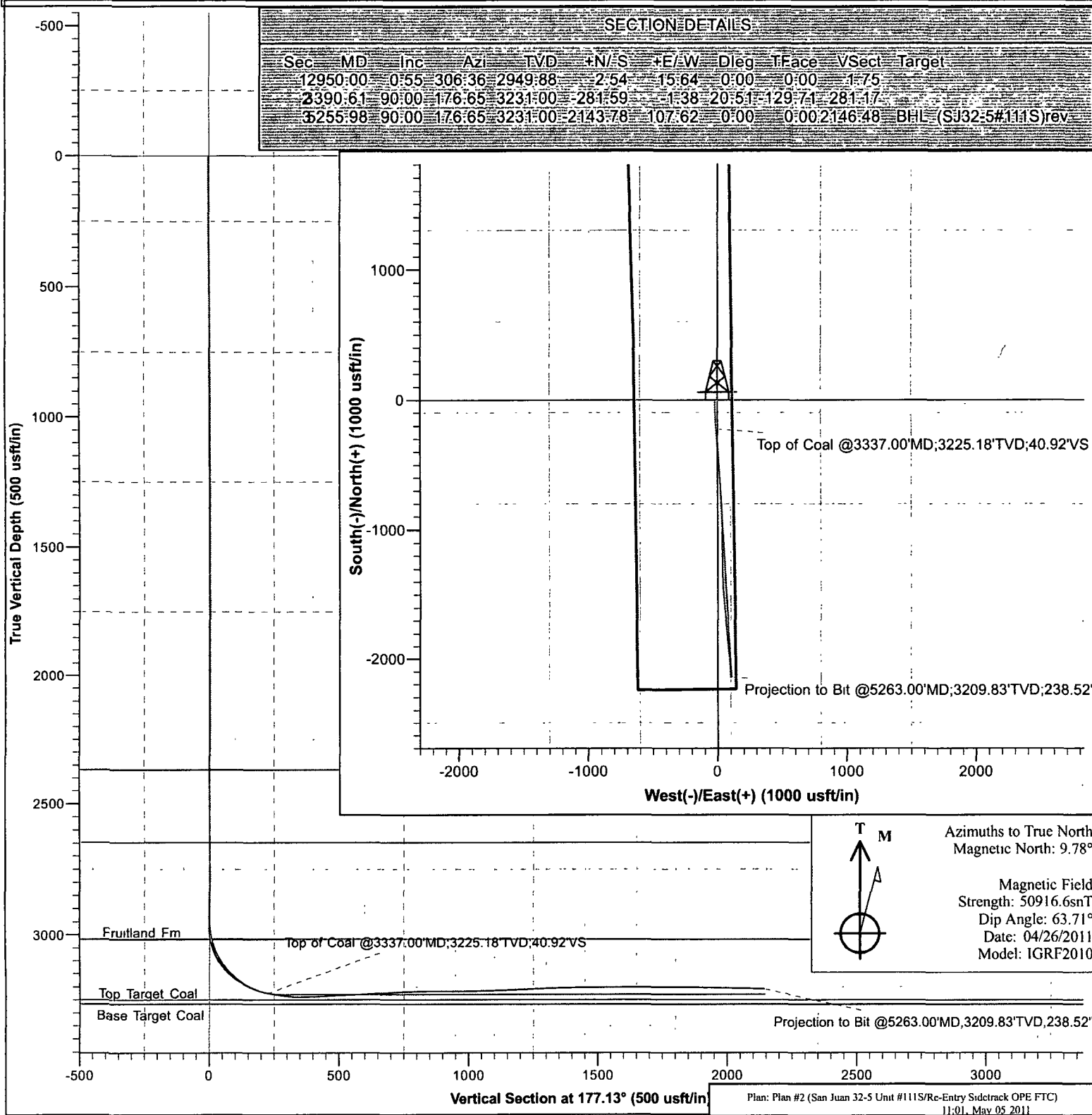
WELL DETAILS: San Juan 32-5 Unit #111S

EOW

Ground Elevation: 6522.00
 RKB Elevation: RKB-16' @ 6538.00usft (D&J #1)
 Rig Name: D&J #1

NO H.L. CROSSED

+N/-S 0.00 +E/-W 0.00 Northing 2167213.14 Easting 1305118.60 Latitude 36° 57' 1.001 N Longitude 107° 23' 51.000 W



Company: Energen Resources
Project: SJBR Sec 30-T32N-R05W
Site: Eul Canyon
Well: San Juan 32-5 Unit #111S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Re-Entry Sidetrack OPE FTC

Local Co-ordinate Reference: Site Eul Canyon
TVD Reference: RKB-16' @ 6538.00usft (D&J #1)
MD Reference: RKB-16' @ 6538.00usft (D&J #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	SJBR Sec 30-T32N-R05W		
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:	2,167,213.14 usft
From:	Lat/Long	Easting:	1,305,118.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	36° 57' 1.001 N
		Longitude:	107° 23' 51.000 W
		Grid Convergence:	-0.69 °

Well	San Juan 32-5 Unit #111S		
Well Position	+N/-S	0.00 usft	Northing: 2,167,213.14 usft
	+E/-W	0.00 usft	Easting: 1,305,118.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	36° 57' 1.001 N
		Longitude:	107° 23' 51.000 W
		Ground Level:	6,522.00 usft

Wellbore	Re-Entry Sidetrack OPE FTC				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	04/26/11	9.78	63.71	50,917

Design	Re-Entry Sidetrack OPE FTC			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	260.77

Survey Program	Date 05/05/11			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.00	2,950.00	GYRO (Re-Entry Sidetrack OPE FTC)	NS-GYRO-MS	North sensing gyrocompassing m/s
2,962.29	5,263.00	MWD (Re-Entry Sidetrack OPE FTC)	MWD	MWD - Standard

Survey								
MD	Inc	Azi	TVD	N/S	E/W	DLeg	V. Sec	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.31	74.44	100.00	0.07	0.26	0.31	-0.27	
200.00	0.47	157.95	200.00	-0.24	0.68	0.53	-0.63	
300.00	0.33	190.45	300.00	-0.90	0.78	0.26	-0.62	
400.00	0.38	183.50	399.99	-1.51	0.70	0.07	-0.45	
500.00	0.53	186.97	499.99	-2.30	0.63	0.15	-0.25	
600.00	0.65	179.49	599.99	-3.33	0.58	0.14	-0.04	
700.00	0.70	189.62	699.98	-4.50	0.48	0.13	0.25	
800.00	0.55	209.71	799.97	-5.52	0.14	0.26	0.75	
900.00	0.26	276.60	899.97	-5.91	-0.32	0.51	1.27	
1,000.00	0.59	266.63	999.97	-5.91	-1.06	0.34	2.00	

Company: Energen Resources
Project: SJBR Sec 30-T32N-R05W
Site: Eul Canyon
Well: San Juan 32-5 Unit #111S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Re-Entry Sidetrack OPE FTC

Local Co-ordinate Reference: Site Eul Canyon
TVD Reference: RKB-16' @ 6538.00usft (D&J #1)
MD Reference: RKB-16' @ 6538.00usft (D&J #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
1,100.00	0.46	272.08	1,099.96	-5.93	-1.98	0.14	2.90
1,200.00	0.29	241.72	1,199.96	-6.03	-2.60	0.26	3.54
1,300.00	0.08	346.36	1,299.96	-6.09	-2.84	0.32	3.78
1,400.00	0.16	58.42	1,399.96	-5.94	-2.74	0.16	3.66
1,500.00	0.34	342.59	1,499.96	-5.59	-2.71	0.34	3.57
1,600.00	0.42	244.28	1,599.96	-5.46	-3.13	0.58	3.96
1,700.00	0.43	239.54	1,699.96	-5.81	-3.78	0.04	4.66
1,800.00	0.43	269.84	1,799.95	-6.00	-4.48	0.22	5.38
1,900.00	0.35	284.00	1,899.95	-5.93	-5.15	0.12	6.04
2,000.00	0.29	279.75	1,999.95	-5.82	-5.70	0.06	6.56
2,100.00	0.54	275.77	2,099.95	-5.73	-6.42	0.25	7.25
2,200.00	0.83	265.81	2,199.94	-5.73	-7.61	0.31	8.43
2,300.00	0.62	263.22	2,299.93	-5.85	-8.87	0.21	9.69
2,400.00	0.68	315.52	2,399.93	-5.49	-9.82	0.58	10.57
2,500.00	0.67	285.09	2,499.92	-4.91	-10.80	0.35	11.45
2,600.00	0.79	282.34	2,599.91	-4.61	-12.04	0.12	12.62
2,700.00	0.78	299.44	2,699.90	-4.13	-13.30	0.23	13.79
2,800.00	0.48	309.73	2,799.90	-3.53	-14.22	0.32	14.60
2,900.00	0.82	302.54	2,899.89	-2.88	-15.14	0.35	15.41
2,950.00	0.55	306.36	2,949.88	-2.54	-15.64	0.55	15.84
2,962.29	0.55	307.05	2,962.17	-2.47	-15.73	0.05	15.93
3,022.03	10.64	168.56	3,021.58	-7.72	-14.87	18.51	15.91
3,052.79	17.85	176.22	3,051.38	-15.22	-13.99	24.18	16.25
3,083.57	25.59	178.84	3,079.95	-26.59	-13.54	25.34	17.63
3,114.36	33.50	180.38	3,106.72	-41.76	-13.47	25.81	19.99
3,145.11	40.80	179.84	3,131.21	-60.32	-13.49	23.76	22.99
3,176.15	47.92	178.06	3,153.39	-82.00	-13.08	23.28	26.06
3,206.87	53.73	177.83	3,172.79	-105.79	-12.22	18.92	29.03
3,237.55	59.71	176.66	3,189.62	-131.39	-10.98	19.75	31.91
3,268.17	65.42	176.54	3,203.72	-158.51	-9.37	18.65	34.67
3,298.85	71.58	176.46	3,214.96	-186.99	-7.62	20.08	37.52
3,330.00	76.33	175.84	3,223.57	-216.85	-5.61	15.37	40.32
3,337.00	77.05	175.72	3,225.18	-223.64	-5.11	10.42	40.92
Top of Coal @3337.00'MD;3225.18'TVD;40.92'VS							
3,360.00	79.40	175.31	3,229.87	-246.09	-3.35	10.37	42.78
3,390.00	81.78	174.95	3,234.77	-275.57	-0.84	8.02	45.03
3,420.00	84.33	174.89	3,238.40	-305.23	1.80	8.50	47.18
3,450.00	87.41	175.03	3,240.56	-335.04	4.43	10.28	49.37
3,481.00	89.78	174.80	3,241.32	-365.90	7.17	7.68	51.61
3,511.00	92.24	176.26	3,240.79	-395.81	9.51	9.53	54.10
3,542.00	93.65	176.91	3,239.20	-426.71	11.36	5.01	57.23
3,572.00	93.47	177.00	3,237.34	-456.61	12.95	0.67	60.46
3,603.00	92.68	176.69	3,235.68	-487.52	14.65	2.74	63.73
3,633.00	92.68	176.82	3,234.27	-517.44	16.35	0.43	66.86
3,664.00	92.68	176.99	3,232.82	-548.36	18.02	0.55	70.17

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Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
3,695.00	93.56	176.92	3,231.14	-579.27	19.66	2.85	73.50
3,725.00	93.12	176.53	3,229.39	-609.17	21.37	1.96	76.61
3,757.00	93.03	176.09	3,227.67	-641.05	23.43	1.40	79.69
3,787.00	93.56	175.74	3,225.95	-670.93	25.56	2.12	82.38
3,818.00	93.21	175.53	3,224.12	-701.78	27.92	1.32	85.00
3,848.00	92.51	175.39	3,222.62	-731.65	30.29	2.38	87.45
3,879.00	92.42	175.27	3,221.29	-762.52	32.81	0.48	89.91
3,909.00	92.07	175.27	3,220.11	-792.40	35.28	1.17	92.27
3,940.00	90.84	176.18	3,219.32	-823.30	37.59	4.93	94.94
3,971.00	90.57	178.16	3,218.94	-854.26	39.12	6.45	98.40
4,001.00	90.04	179.49	3,218.78	-884.25	39.74	4.77	102.60
4,032.00	89.78	180.01	3,218.83	-915.25	39.87	1.88	107.44
4,063.00	89.96	180.13	3,218.90	-946.25	39.84	0.70	112.45
4,094.00	90.75	179.85	3,218.71	-977.25	39.84	2.70	117.41
4,124.00	91.10	179.94	3,218.23	-1,007.24	39.90	1.20	122.17
4,155.00	91.36	179.34	3,217.56	-1,038.24	40.09	2.11	126.95
4,186.00	90.92	178.57	3,216.94	-1,069.22	40.66	2.86	131.36
4,218.00	91.10	178.62	3,216.38	-1,101.21	41.44	0.58	135.72
4,250.00	91.63	178.98	3,215.62	-1,133.19	42.11	2.00	140.19
4,282.00	93.12	179.66	3,214.29	-1,165.16	42.49	5.12	144.94
4,313.00	92.42	179.17	3,212.79	-1,196.12	42.81	2.76	149.59
4,345.00	93.12	179.12	3,211.25	-1,228.08	43.28	2.19	154.25
4,377.00	92.33	179.57	3,209.73	-1,260.04	43.65	2.84	159.01
4,409.00	92.51	179.56	3,208.37	-1,292.02	43.89	0.56	163.90
4,440.00	92.15	179.01	3,207.11	-1,322.99	44.28	2.12	168.49
4,472.00	92.15	179.36	3,205.91	-1,354.96	44.73	1.09	173.17
4,504.00	91.01	177.83	3,205.03	-1,386.94	45.52	5.96	177.52
4,536.00	90.40	177.35	3,204.64	-1,418.91	46.86	2.43	181.32
4,567.00	90.57	176.97	3,204.37	-1,449.87	48.40	1.34	184.77
4,599.00	90.66	176.57	3,204.03	-1,481.82	50.20	1.28	188.12
4,631.00	90.66	176.09	3,203.66	-1,513.75	52.25	1.50	191.22
4,663.00	90.22	175.40	3,203.42	-1,545.66	54.62	2.56	193.99
4,694.00	90.66	174.59	3,203.18	-1,576.54	57.33	2.97	196.27
4,726.00	90.31	173.54	3,202.91	-1,608.37	60.64	3.46	198.11
4,758.00	90.66	173.77	3,202.64	-1,640.17	64.17	1.31	199.72
4,790.00	90.75	173.85	3,202.24	-1,671.98	67.62	0.38	201.42
4,821.00	90.13	173.77	3,202.01	-1,702.80	70.97	2.02	203.06
4,852.00	89.43	173.21	3,202.12	-1,733.60	74.48	2.89	204.53
4,884.00	89.08	174.06	3,202.54	-1,765.40	78.03	2.87	206.13
4,916.00	89.69	174.65	3,202.88	-1,797.24	81.18	2.65	208.13
4,947.00	89.60	175.28	3,203.08	-1,828.12	83.90	2.05	210.40
4,979.00	89.43	174.77	3,203.35	-1,860.00	86.67	1.68	212.78
5,011.00	89.25	175.03	3,203.72	-1,891.87	89.52	0.99	215.08
5,043.00	88.99	175.27	3,204.21	-1,923.75	92.22	1.11	217.52

Company: Energen Resources
Project: SJBR Sec 30-T32N-R05W
Site: Eul Canyon
Well: San Juan 32-5 Unit #111S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Re-Entry Sidetrack OPE FTC

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Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
5,075.00	88.46	175.40	3,204.92	-1,955.64	94.82	1.71	220.07
5,107.00	88.46	175.79	3,205.78	-1,987.53	97.28	1.22	222.76
5,138.00	88.64	176.63	3,206.56	-2,018.45	99.33	2.77	225.70
5,170.00	88.99	176.88	3,207.23	-2,050.39	101.14	1.34	229.03
5,198.00	88.29	176.58	3,207.89	-2,078.34	102.74	2.72	231.94
5,263.00	88.29	176.58	3,209.83	-2,143.20	106.61	0.00	238.52

Projection to Bit @5263.00'MD;3209.83'TVD;238.52'VS

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,337.00	3,225.18	-223.64	-5.11	Top of Coal @3337.00'MD;3225.18'TVD;40.92'VS
5,263.00	3,209.83	-2,143.20	106.61	Projection to Bit @5263.00'MD;3209.83'TVD;238.52'VS

Checked By: _____ Approved By: _____ Date: _____