

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87502

Submit one copy to
Appropriate District Office

☒ AMENDED REPORT
As DRILLED "

Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-037-27652		2 Pool Code 71629		3 Pool Name BASIN FRUITLAND COAL	
4 Property Code 17033		5 Property Name ROSA UNIT			6 Well Number 256A
7 OGRID No. 120782		8 Operator Name WILLIAMS PRODUCTION COMPANY			9 Elevation 6401'

10 Surface Location

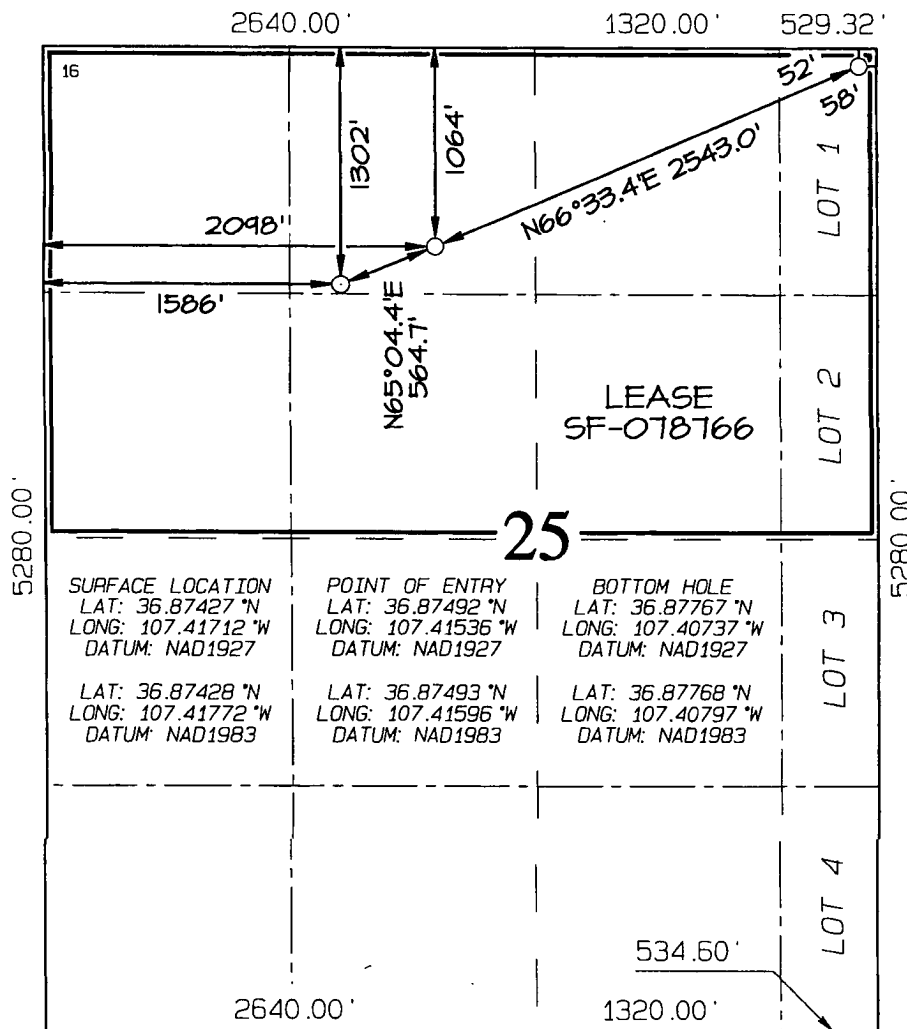
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	25	31N	6W		1302	NORTH	1586	WEST	RIO ARRIBA

¹¹ 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
A	25	31N	6W		52	NORTH	58	EAST	RIO ARRIBA

¹² Dedicated Acres	272.16 Acres - N/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



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 12-1-11
LARRY HIGGINS
 Printed Name _____
LARRY.HIGGINS@USMAILTIMS.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

Date Revised: NOVEMBER 30, 2011
Survey Date: NOVEMBER 25, 2003

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Williams Energy

Rosa Unit #256A Stk
Sec25 T31N-R06W - 256A

Rio Arriba Co. NM

GL: 6401' KB: 14'

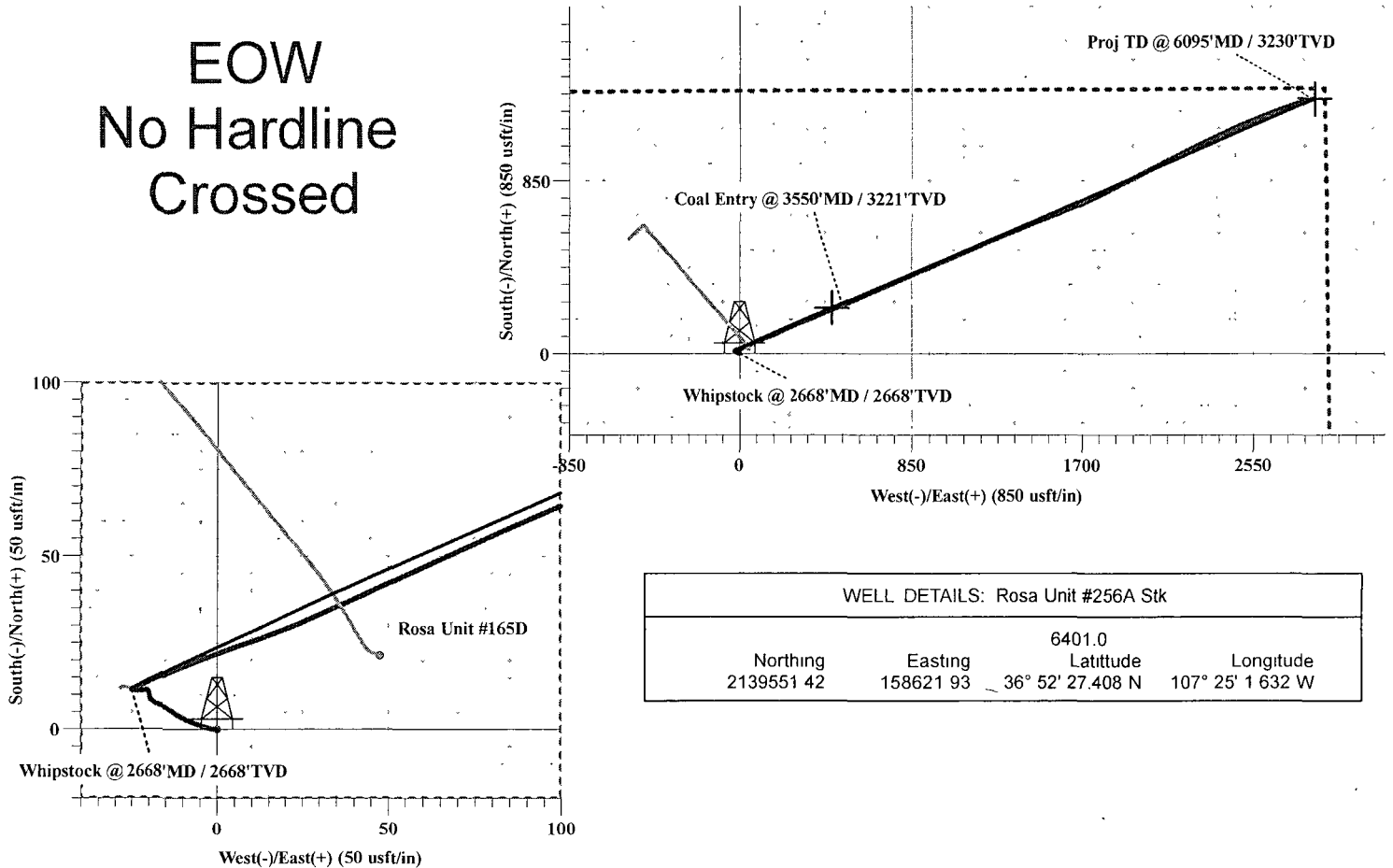
PATHFINDER®

A Schlumberger Company

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

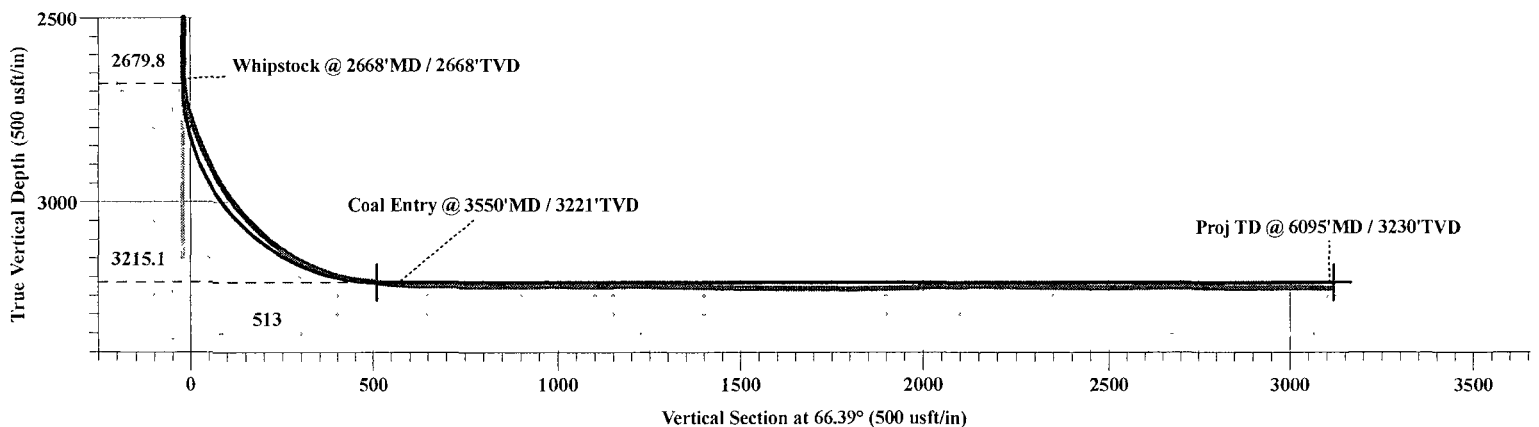
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-256	3215 0	224 2	461 3	2139769 97	159085 93	Point
TD-256	3215 0	1249 0	2857 9	2140765 39	161494 86	Point

**EOW
No Hardline
Crossed**



WELL DETAILS: Rosa Unit #256A Stk

Northing	Easting	6401.0	Latitude	Longitude
2139551 42	158621 93		36° 52' 27.408 N	107° 25' 1 632 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
2680 0	0 65	291 82	2679 8	11 4	-25 2	0 00	0 00	-18 5	
3518 4	90 00	66 85	3215 1	224 2	461 3	10 79	135 02	512 5	
6124 9	90 00	66 85	3215 0	1249 0	2857 9	0 00	0 00	3118 9	TD-256

Plan: Design #2 (Rosa Unit #256A Stk/Stk)

Created By: Frank C. Scardino

Date: 10/27/2011

Williams Energy

Rio Arriba Co. NM

Sec25 T31N-R06W - 256A

Rosa Unit #256A Stk

Stk

Design: Stk

Standard Survey Report

08 November, 2011

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec25 T31N-R06W - 256A
Project:	Rio Arriba Co. NM	TVD Reference:	WELL @ 6415.0usft (Original Well Elev)
Site:	Sec25 T31N-R06W - 256A	MD Reference:	WELL @ 6415.0usft (Original Well Elev)
Well:	Rosa Unit #256A Stk	North Reference:	True
Wellbore:	Stk	Survey Calculation Method:	Minimum Curvature
Design:	Stk	Database:	EDM-5000 1 Single User Db

Project:	Rio Arriba Co. NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site:	Sec25 T31N-R06W - 256A		
Site Position:		Northing:	2,139,551.42 usft
From:	Lat/Long	Easting:	158,621.93 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 52' 27.408 N
		Longitude:	107° 25' 1.632 W
		Grid Convergence:	-0.70 °

Well:	Rosa Unit #256A Stk		
Well Position	+N/-S	0.0 usft	Northing: 2,139,551.42 usft
	+E/-W	0.0 usft	Easting: 158,621.93 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 52' 27.408 N
		Longitude:	107° 25' 1.632 W
		Ground Level:	6,401.0 usft

Wellbore:	Stk		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	10/10/11	(°)
			9.73
			Dip Angle (°)
			63.63
			Field Strength (nT)
			50,826

Design:	Stk		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			66.29

Survey Program:	Date: 11/08/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
200.0	6,095.0	Survey #1 (Stk)	MWD
			Description
			MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	1.01	275.38	200.0	0.2	-1.8	-1.5	0.51	0.51	0.00
400.0	1.19	295.93	400.0	1.2	-5.4	-4.4	0.22	0.09	10.28
600.0	1.00	288.10	599.9	2.7	-8.9	-7.1	0.12	-0.10	-3.92
800.0	0.84	306.83	799.9	4.1	-11.7	-9.1	0.17	-0.08	9.37
1,000.0	0.56	306.08	999.9	5.6	-13.7	-10.3	0.14	-0.14	-0.38
1,200.0	0.64	292.05	1,199.9	6.6	-15.5	-11.6	0.08	0.04	-7.02
1,400.0	0.80	288.26	1,399.8	7.4	-17.9	-13.4	0.08	0.08	-1.90
1,600.0	0.42	343.38	1,599.8	8.6	-19.4	-14.3	0.33	-0.19	27.56
1,800.0	0.43	346.23	1,799.8	10.0	-19.8	-14.1	0.01	0.01	1.43

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec25 T31N-R06W - 256A
Project:	Rio Arriba Co NM	TVD Reference:	WELL @ 6415 0usft (Original Well Elev)
Site:	Sec25 T31N-R06W - 256A	MD Reference:	WELL @ 6415 0usft (Original Well Elev)
Well:	Rosa Unit #256A Stk	North Reference:	True
Wellbore:	Stk	Survey Calculation Method:	Minimum Curvature
Design:	Stk	Database:	EDM-5000.1-Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,000 0	0 18	356 16	1,999 8	11 0	-20 0	-13 9	0 13	-0 13	4 97
2,200 0	0 29	283 79	2,199 8	11 5	-20 5	-14 2	0 15	0 06	-36 19
2,400 0	0 56	252 46	2,399 8	11 3	-21 9	-15 6	0 17	0 14	-15 67
2,600 0	0 79	278 12	2,599 8	11 2	-24 2	-17 7	0 19	0 12	12 83
2,660 0	0 68	287 90	2,659 8	11 4	-25 0	-18 3	0 28	-0 18	16 30
2,668 0	1 15	45 46	2,667 8	11 4	-25 0	-18 3	19 80	5 87	1,469 52
Whipstock @ 2668' MD / 2668' TVD									
2,727 0	12 75	65 90	2,726 3	14 5	-18 6	-11 2	19 80	19 66	34 64
2,759 0	16 62	67 74	2,757 2	17 7	-11 1	-3 1	12 18	12 09	5 75
2,790 0	18 47	69 58	2,786 8	21 1	-2 4	6 3	6 23	5 97	5 94
2,822 0	20 66	71 27	2,816 9	24 7	7 7	16 9	7 07	6 84	5 28
2,854 0	23 13	69 89	2,846 6	28 6	18 9	28 8	7 88	7 72	-4 31
2,884 0	25 41	66 58	2,874 0	33 2	30 4	41 2	8 85	7 60	-11 03
2,915 0	27 17	65 04	2,901 8	38 9	42 9	54 9	6 09	5 68	-4 97
2,947 0	29 81	65 73	2,929 9	45 2	56 8	70 2	8 31	8 25	2 16
2,979 0	32 27	65 59	2,957 3	52 0	71 8	86 6	7 69	7 69	-0 44
3,011 0	35 00	66 10	2,983 9	59 3	88 0	104 4	8 58	8 53	1 59
3,044 0	37 81	67 94	3,010 5	66 9	106 0	124 0	9 13	8 52	5 58
3,075 0	41 33	69 56	3,034 4	74 0	124 4	143 7	11 83	11 35	5 23
3,106 0	43 79	69 86	3,057 2	81 3	144 1	164 6	7 96	7 94	0 97
3,138 0	47 13	67 88	3,079 7	89 5	165 3	187 4	11 33	10 44	-6 19
3,170 0	49 95	65 51	3,100 9	99 0	187 3	211 4	10 41	8 81	-7 41
3,202 0	54 87	63 72	3,120 4	109 9	210 2	236 7	16 00	15 38	-5 59
3,233 0	58 39	64 84	3,137 4	121 1	233 6	262 6	11 75	11 35	3 61
3,265 0	61 99	67 30	3,153 3	132 4	258 9	290 3	13 08	11 25	7 69
3,297 0	63 75	68 40	3,167 9	143 1	285 3	318 8	6 29	5 50	3 44
3,329 0	68 76	68 56	3,180 8	153 9	312 6	348 0	15 66	15 66	0 50
3,361 0	71 84	67 94	3,191 6	165 0	340 5	378 2	9 80	9 63	-1 94
3,394 0	77 56	67 36	3,200 3	177 1	370 0	410 0	17 42	17 33	-1 76
3,423 0	80 64	67 04	3,205 8	188 2	396 2	438 4	10 68	10 62	-1 10
3,454 0	84 24	66 41	3,209 8	200 3	424 4	469 2	11 79	11 61	-2 03
3,486 0	83 62	66 92	3,213 2	212 9	453 7	501 0	2 50	-1 94	1 59
3,518 0	82 66	66 79	3,217 1	225 4	482 9	532 7	3 03	-3 00	-0 41
3,550 0	84 24	66 57	3,220 7	238 0	512 1	564 5	4 98	4 94	-0 69
Coal Entry @ 3550' MD / 3221' TVD									
3,613 0	89 78	66 08	3,224 0	263 2	569 7	627 4	8 83	8 79	-0 78
3,677 0	89 60	66 76	3,224 3	288 8	628 3	691 4	1 10	-0 28	1 06
3,741 0	89 16	66 44	3,225 0	314 3	687 0	755 4	0 85	-0 69	-0 50
3,804 0	89 25	66 67	3,225 9	339 3	744 8	818 4	0 39	0 14	0 37
3,868 0	90 40	66 51	3,226 1	364 7	803 6	882 4	1 81	1 80	-0 25
3,931 0	90 48	66 38	3,225 6	389 9	861 3	945 4	0 24	0 13	-0 21
3,996 0	89 87	66 78	3,225 4	415 8	921 0	1,010 4	1 12	-0 94	0 62
4,059 0	89 60	66 68	3,225 7	440 6	978 8	1,073 4	0 46	-0 43	-0 16
4,122 0	91 36	66 73	3,225 2	465 6	1,036 7	1,136 4	2 79	2 79	0 08

Survey Report

Company: Williams Energy
Project: Rio Arriba Co. NM
Site: Sec25 T31N-R06W -256A
Well: Rosa Unit #256A Stk
Wellbore: Stk
Design: Stk

Local Co-ordinate Reference: Site Sec25 T31N-R06W -256A
TVD Reference: WELL @ 6415 0usft (Original Well Elev)
MD Reference: WELL @ 6415 0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User.Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,185 0	89 96	66 48	3,224 5	490 6	1,094 5	1,199 4	2 26	-2 22	-0 40
4,249 0	88 90	66 32	3,225 1	516 2	1,153 2	1,263 4	1 68	-1 66	-0 25
4,313 0	88 99	66 47	3,226 3	541 8	1,211 8	1,327 4	0 27	0 14	0 23
4,376 0	88 37	66 87	3,227 7	566 8	1,269 6	1,390 4	1 17	-0 98	0 63
4,440 0	89 34	67 72	3,229 0	591 5	1,328 7	1,454 3	2 02	1 52	1 33
4,503 0	89 43	68 77	3,229 7	614 8	1,387 2	1,517 3	1 67	0 14	1 67
4,567 0	88 72	69 12	3,230 7	637 8	1,446 9	1,581 2	1 24	-1 11	0 55
4,631 0	89 96	68 19	3,231 4	661 1	1,506 5	1,645 2	2 42	1 94	-1 45
4,695 0	90 04	68 03	3,231 4	684 9	1,565 9	1,709 1	0 28	0 13	-0 25
4,759 0	88 81	68 98	3,232 1	708 4	1,625 4	1,773 1	2 43	-1 92	1 48
4,823 0	90 13	67 59	3,232 7	732 1	1,684 9	1,837 0	3 00	2 06	-2 17
4,887 0	91 54	64 69	3,231 7	758 0	1,743 4	1,901 0	5 04	2 20	-4 53
4,951 0	92 42	64 27	3,229 5	785 5	1,801 1	1,964 9	1 52	1 38	-0 66
5,015 0	92 24	63 95	3,226 9	813 4	1,858 6	2,028 8	0 57	-0 28	-0 50
5,078 0	91 10	64 41	3,225 1	840 9	1,915 3	2,091 8	1 95	-1 81	0 73
5,141 0	89 96	64 33	3,224 5	868 1	1,972 1	2,154 7	1 81	-1 81	-0 13
5,204 0	88 99	63 63	3,225 1	895 7	2,028 7	2,217 7	1 90	-1 54	-1 11
5,268 0	88 64	63 51	3,226 4	924 2	2,086 0	2,281 6	0 58	-0 55	-0 19
5,332 0	89 34	63 95	3,227 5	952 5	2,143 4	2,345 5	1 29	1 09	0 69
5,395 0	89 08	63 81	3,228 4	980 3	2,200 0	2,408 4	0 47	-0 41	-0 22
5,459 0	90 22	64 22	3,228 8	1,008 3	2,257 5	2,472 4	1 89	1 78	0 64
5,523 0	89 87	63 56	3,228 8	1,036 5	2,315 0	2,536 3	1 17	-0 55	-1 03
5,586 0	91 01	65 25	3,228 3	1,063 7	2,371 8	2,599 3	3 24	1 81	2 68
5,650 0	90 40	66 81	3,227 5	1,089 7	2,430 2	2,663 3	2 62	-0 95	2 44
5,713 0	89 08	66 42	3,227 8	1,114 7	2,488 1	2,726 3	2 18	-2 10	-0 62
5,777 0	89 34	67 14	3,228 7	1,139 9	2,546 9	2,790 3	1 20	0 41	1 13
5,840 0	89 96	67 89	3,229 0	1,164 0	2,605 1	2,853 3	1 54	0 98	1 19
5,904 0	89 87	69 83	3,229 1	1,187 1	2,664 8	2,917 2	3 03	-0 14	3 03
5,967 0	90 31	71 69	3,229 0	1,207 9	2,724 3	2,980 0	3 03	0 70	2 95
6,031 0	89 25	70 64	3,229 3	1,228 5	2,784 8	3,043 8	2 33	-1 66	-1 64
6,095 0	89 25	70 64	3,230 1	1,249 7	2,845 2	3,107 6	0 00	0 00	0 00

Proj TD @ 6095 MD / 3230 TVD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,668 0	2,667 8	11 4	-25 0	Whipstock @ 2668 MD / 2668 TVD
3,550 0	3,220 7	238 0	512 1	Coal Entry @ 3550 MD / 3221 TVD
6,095 0	3,230 1	1,249 7	2,845 2	Proj TD @ 6095 MD / 3230 TVD

Checked By: _____ Approved By: _____ Date: _____