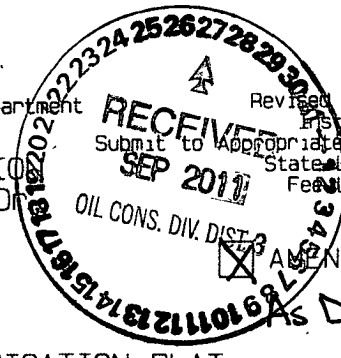


District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-031-29526		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 331A
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6348'

10 Surface Location

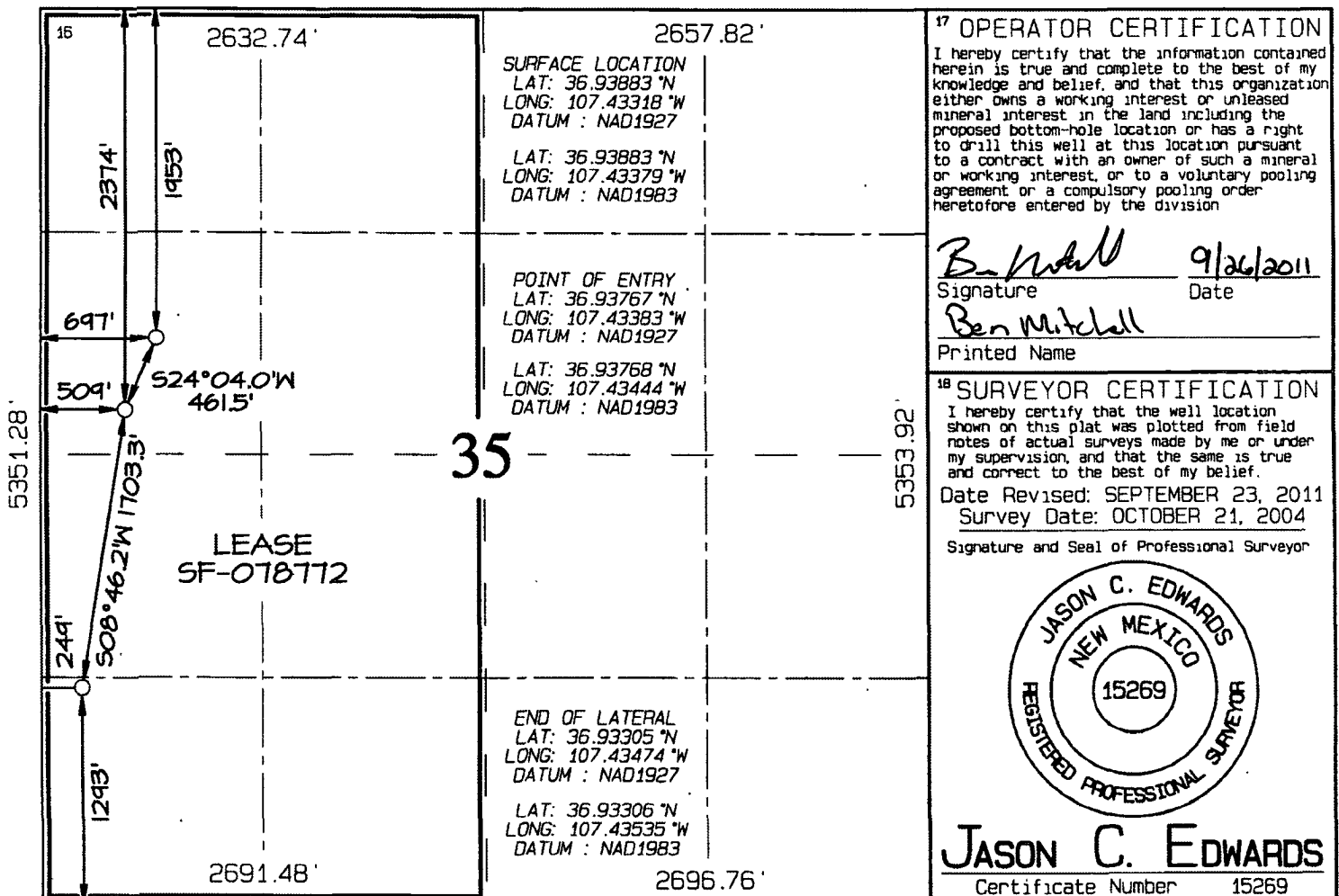
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	35	32N	6W		1953	NORTH	697	WEST	RIO ARriba

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
M	35	32N	6W		1293	SOUTH	249	WEST	RIO ARriba

*Dedicated Acres 320.0 Acres - (W/2)	*Joint or Infill	*Consolidation Code	*Order No. SD-20118-0
--	------------------	---------------------	---------------------------------

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





Williams Energy

*Rosa Unit #331A STK -2
Sec35 T32N-R6W - 331A*

Rio Arriba Co. NM

GL: 6348' KB: 14'

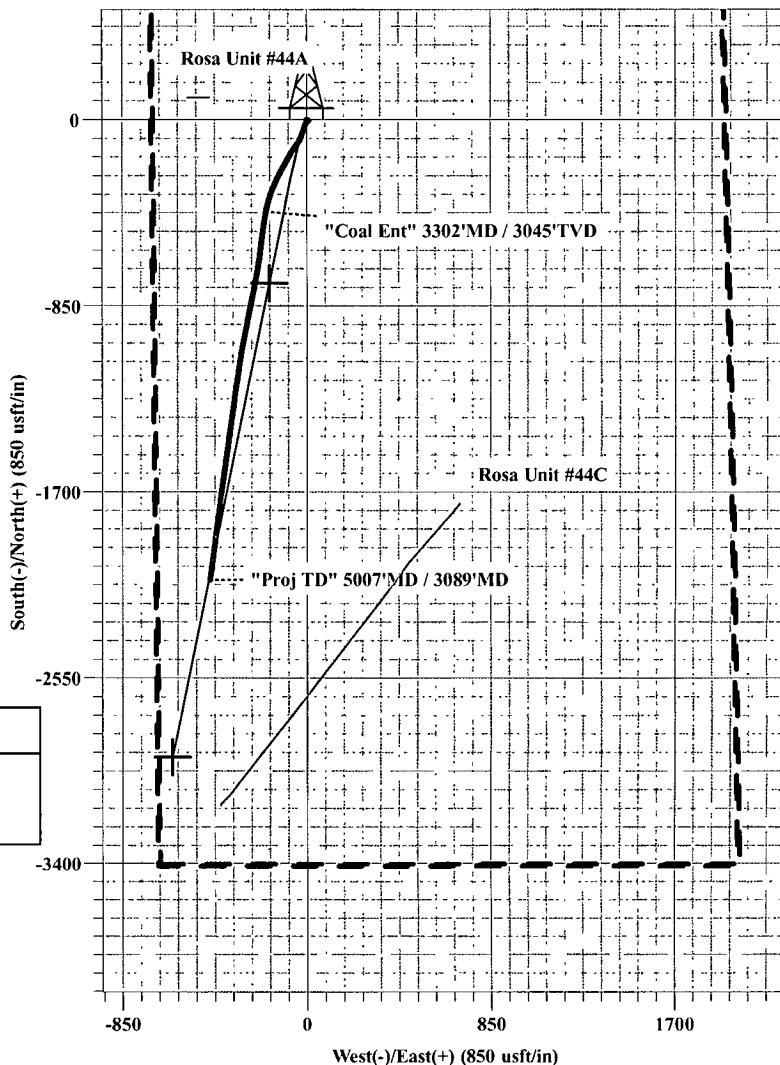


A Schlumberger Company

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

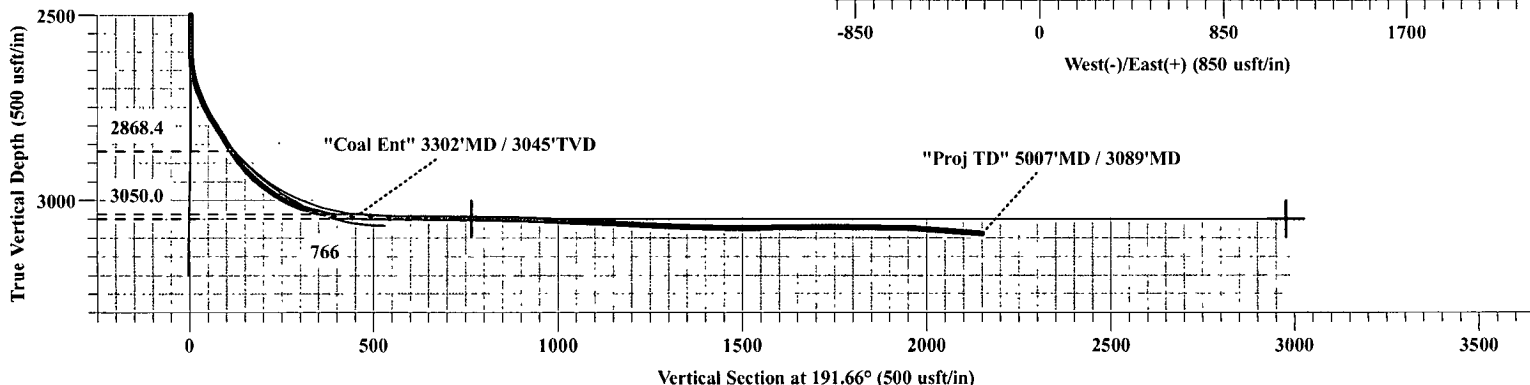
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-331A	3050.0	-746.9	-172.6	2162365.28	154033.86	Point
TD-331A	3050.0	-2912.8	-619.7	2160205.10	153559.91	Point

**EOW
No Hardline
Crossed**



WELL DETAILS: Rosa Unit #331A STK

Northing	Easting	Latitude	Longitude
2163109.98	154215.72	36° 56' 19.788 N	107° 25' 59.448 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
2900.0	40.91	194.90	2868.4	-116.8	-37.7	0.00	0.00	122.1	
3297.2	87.29	191.30	3037.2	-455.9	-114.3	11.70	-4.97	469.6	
3539.6	87.29	191.30	3048.7	-693.3	-161.7	0.00	0.00	711.7	
4 3594.3	90.00	191.66	3050.0	-746.9	-172.6	5.00	7.67	766.4	LAND-331A
5 5805.9	90.00	191.66	3050.0	-2912.8	-619.7	0.00	0.00	2976.0	

Plan: Design #2 (Rosa Unit #331A STK/STK-2)

Created By: Frank C. Scardino

Date: 9/10/2011

Williams Energy

Rio Arriba Co. NM

Sec35 T32N-R6W - 331A

Rosa Unit #331A STK

STK-2

Design: STK-2

Standard Survey Report

20 September, 2011

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec35 T32N-R6W - 331A
Project:	Rio Arriba Co NM	TVD Reference:	WELL @ 6362 0usft (Original Well Elev)
Site:	Sec35 T32N-R6W - 331A	MD Reference:	WELL @ 6362 0usft (Original Well Elev)
Well:	Rosa Unit #331A STK	North Reference:	True
Wellbore:	STK-2	Survey Calculation Method:	Minimum Curvature
Design:	STK-2	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	Sec35 T32N-R6W - 331A		
Site Position:		Northing:	2,163,109.98 usft
From:	Lat/Long	Easting:	154,215.72 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 56' 19.788 N
		Longitude:	107° 25' 59.448 W
		Grid Convergence:	-0.71 °

Well	Rosa Unit #331A STK		
Well Position	+N/-S	0.0 usft	Northing: 2,163,109.98 usft
	+E/-W	0.0 usft	Easting: 154,215.72 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 56' 19.788 N
		Longitude:	107° 25' 59.448 W
		Ground Level:	6,348.0 usft

Wellbore	STK-2		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	09/10/11	9.75
			Dip Angle
			(°)
			63.69
			Field Strength
			(nT)
			50,869

Design	STK-2		
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
			(°)
			191.66

Survey Program	Date 09/20/11		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
200.0	5,007.0	Survey #1 (STK-2)	MWD
			Description
			MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.25	101.06	200.0	-0.1	0.4	0.0	0.13	0.13	0.00
400.0	1.21	136.62	400.0	-1.7	2.3	1.2	0.51	0.48	17.78
600.0	1.07	128.52	599.9	-4.4	5.2	3.3	0.11	-0.07	-4.05
800.0	0.44	119.75	799.9	-5.9	7.3	4.3	0.32	-0.32	-4.39
1,000.0	0.23	62.07	999.9	-6.1	8.4	4.3	0.19	-0.11	-28.84
1,200.0	0.19	152.23	1,199.9	-6.2	8.9	4.3	0.15	-0.02	45.08
1,400.0	0.33	3.31	1,399.9	-6.0	9.1	4.0	0.25	0.07	-74.46
1,600.0	0.36	23.05	1,599.9	-4.8	9.3	2.8	0.06	0.02	9.87
1,800.0	0.34	32.72	1,799.9	-3.7	9.9	1.7	0.03	-0.01	4.84

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec35 T32N-R6W - 331A
Project:	Rio Arriba Co NM	TVD Reference:	WELL @ 6362 0usft (Original Well Elev)
Site:	Sec35 T32N-R6W - 331A	MD Reference:	WELL @ 6362 0usft (Original Well Elev)
Well:	Rosa Unit #331A STK	North Reference:	True
Wellbore:	STK-2	Survey Calculation Method:	Minimum Curvature
Design:	STK-2	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	0.72	256.96	1,999.9	-3.5	9.0	1.6	0.50	0.19	-67.88
2,200.0	0.68	258.86	2,199.9	-4.0	6.6	2.6	0.02	-0.02	0.95
2,400.0	0.58	257.93	2,399.9	-4.5	4.5	3.5	0.05	-0.05	-0.47
2,600.0	0.42	265.15	2,599.9	-4.7	2.7	4.1	0.09	-0.08	3.61
2,699.0	18.91	202.05	2,697.1	-19.8	-3.7	20.1	18.91	18.68	-63.74
2,730.0	23.65	202.56	2,725.9	-30.2	-8.0	31.2	15.30	15.29	1.65
2,761.0	27.26	199.54	2,753.9	-42.6	-12.7	44.3	12.37	11.65	-9.74
2,793.0	31.30	199.68	2,781.8	-57.4	-18.0	59.8	12.63	12.63	0.44
2,825.0	34.21	200.24	2,808.7	-73.6	-23.9	76.9	9.14	9.09	1.75
2,856.0	33.06	204.71	2,834.6	-89.5	-30.4	93.8	8.80	-3.71	14.42
2,888.0	33.85	215.20	2,861.3	-104.7	-39.2	110.5	18.22	2.47	32.78
2,919.0	38.51	215.18	2,886.3	-119.7	-49.8	127.3	15.03	15.03	-0.06
2,951.0	42.12	213.61	2,910.7	-136.7	-61.5	146.4	11.72	11.28	-4.91
2,983.0	46.87	211.42	2,933.5	-155.7	-73.5	167.3	15.60	14.84	-6.84
3,015.0	52.32	210.36	2,954.2	-176.6	-86.0	190.3	17.22	17.03	-3.31
3,046.0	56.01	209.48	2,972.4	-198.4	-98.5	214.2	12.12	11.90	-2.84
3,078.0	60.06	208.89	2,989.3	-222.0	-111.8	240.1	12.75	12.66	-1.84
3,110.0	64.63	207.80	3,004.2	-247.0	-125.2	267.2	14.60	14.28	-3.41
3,142.0	69.91	206.04	3,016.5	-273.3	-138.6	295.7	17.26	16.50	-5.50
3,174.0	74.57	202.97	3,026.3	-301.0	-151.2	325.4	17.19	14.56	-9.59
3,206.0	77.12	201.08	3,034.1	-329.8	-162.8	355.9	9.81	7.97	-5.91
3,238.0	81.34	197.28	3,040.1	-359.5	-173.1	387.0	17.60	13.19	-11.88
3,270.0	86.17	192.94	3,043.6	-390.2	-181.4	418.8	20.24	15.09	-13.56
3,302.0	88.90	191.51	3,045.0	-421.4	-188.2	450.7	9.63	8.53	-4.47
"Coal Ent" 3302'MD / 3045'TVD									
3,334.0	87.49	189.64	3,046.0	-452.8	-194.1	482.7	7.32	-4.41	-5.84
3,366.0	89.34	188.52	3,046.9	-484.4	-199.1	514.7	6.76	5.78	-3.50
3,430.0	90.84	187.21	3,046.8	-547.8	-207.9	578.5	3.11	2.34	-2.05
3,493.0	89.08	187.25	3,046.8	-610.3	-215.8	641.3	2.79	-2.79	0.06
3,557.0	89.25	189.74	3,047.7	-673.6	-225.2	705.2	3.90	0.27	3.89
3,621.0	88.55	190.40	3,049.0	-736.6	-236.4	769.2	1.50	-1.09	1.03
3,684.0	89.25	191.06	3,050.2	-798.5	-248.2	832.2	1.53	1.11	1.05
3,747.0	89.52	191.85	3,050.8	-860.2	-260.7	895.2	1.33	0.43	1.25
3,811.0	87.23	191.92	3,052.7	-922.8	-273.8	959.1	3.58	-3.58	0.11
3,875.0	87.58	190.83	3,055.6	-985.5	-286.5	1,023.1	1.79	0.55	-1.70
3,938.0	86.79	189.74	3,058.7	-1,047.4	-297.7	1,086.0	2.14	-1.25	-1.73
4,003.0	87.32	189.55	3,062.0	-1,111.4	-308.6	1,150.8	0.87	0.82	-0.29
4,066.0	86.79	189.36	3,065.2	-1,173.5	-318.9	1,213.7	0.89	-0.84	-0.30
4,130.0	87.14	188.58	3,068.6	-1,236.6	-328.9	1,277.6	1.33	0.55	-1.22
4,194.0	88.20	187.80	3,071.2	-1,299.9	-338.0	1,341.4	2.06	1.66	-1.22
4,257.0	88.46	187.36	3,073.1	-1,362.3	-346.3	1,404.2	0.81	0.41	-0.70
4,322.0	88.29	186.51	3,074.9	-1,426.8	-354.1	1,468.9	1.33	-0.26	-1.31
4,386.0	91.89	187.61	3,074.8	-1,490.3	-362.0	1,532.7	5.88	5.63	1.72
4,450.0	91.36	188.46	3,073.0	-1,553.7	-370.9	1,596.6	1.56	-0.83	1.33

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec35 T32N-R6W - 331A
Project:	Rio Arriba Co NM	TVD Reference:	WELL @ 6362 0usft (Original Well Elev)
Site:	Sec35 T32N-R6W - 331A	MD Reference:	WELL @ 6362 0usft (Original Well Elev)
Well:	Rosa Unit #331A STK	North Reference:	True
Wellbore:	STK-2	Survey Calculation Method:	Minimum Curvature
Design:	STK-2	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)
4,514.0	89.96	189.04	3,072.2	-1,616.9	-380.7	1,660.5	2.37	-2.19	0.91
4,578.0	89.69	188.18	3,072.4	-1,680.2	-390.2	1,724.4	1.41	-0.42	-1.34
4,642.0	89.69	188.28	3,072.8	-1,743.5	-399.4	1,788.3	0.16	0.00	0.16
4,706.0	90.22	187.92	3,072.8	-1,806.9	-408.4	1,852.2	1.00	0.83	-0.56
4,769.0	88.90	187.53	3,073.3	-1,869.3	-416.9	1,915.0	2.18	-2.10	-0.62
4,834.0	86.53	187.61	3,075.9	-1,933.7	-425.4	1,979.8	3.65	-3.65	0.12
4,897.0	85.65	187.45	3,080.2	-1,996.0	-433.7	2,042.5	1.42	-1.40	-0.25
5,007.0	85.65	187.45	3,088.6	-2,104.8	-447.9	2,151.9	0.00	0.00	0.00
"Proj TD" 5007'MD / 3089'MD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,302.0	3,045.0	-421.4	-188.2	"Coal Ent" 3302'MD / 3045'TVD
5,007.0	3,088.6	-2,104.8	-447.9	"Proj TD" 5007'MD / 3089'MD

Checked By: _____	Approved By: _____	Date: _____
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