

Submit one copy to
Appropriate District Office

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 87505

☐ AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

NMOC D

*API Number 30-043-21298		*Pool Code 98172	*Pool Name ESCAVADA N; MANCOS	DEC 17 2018
*Property Code 321250	*Property Name N ESCAVADA UNIT			*Well Number 33-H DISTRICT III
*OGRID No. 372286	*Operator Name ENDURING RESOURCES LLC			*Elevation 6860'

¹⁰ Surface Location

U. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	22N	7W		1594	SOUTH	192	WEST	SANDOVAL

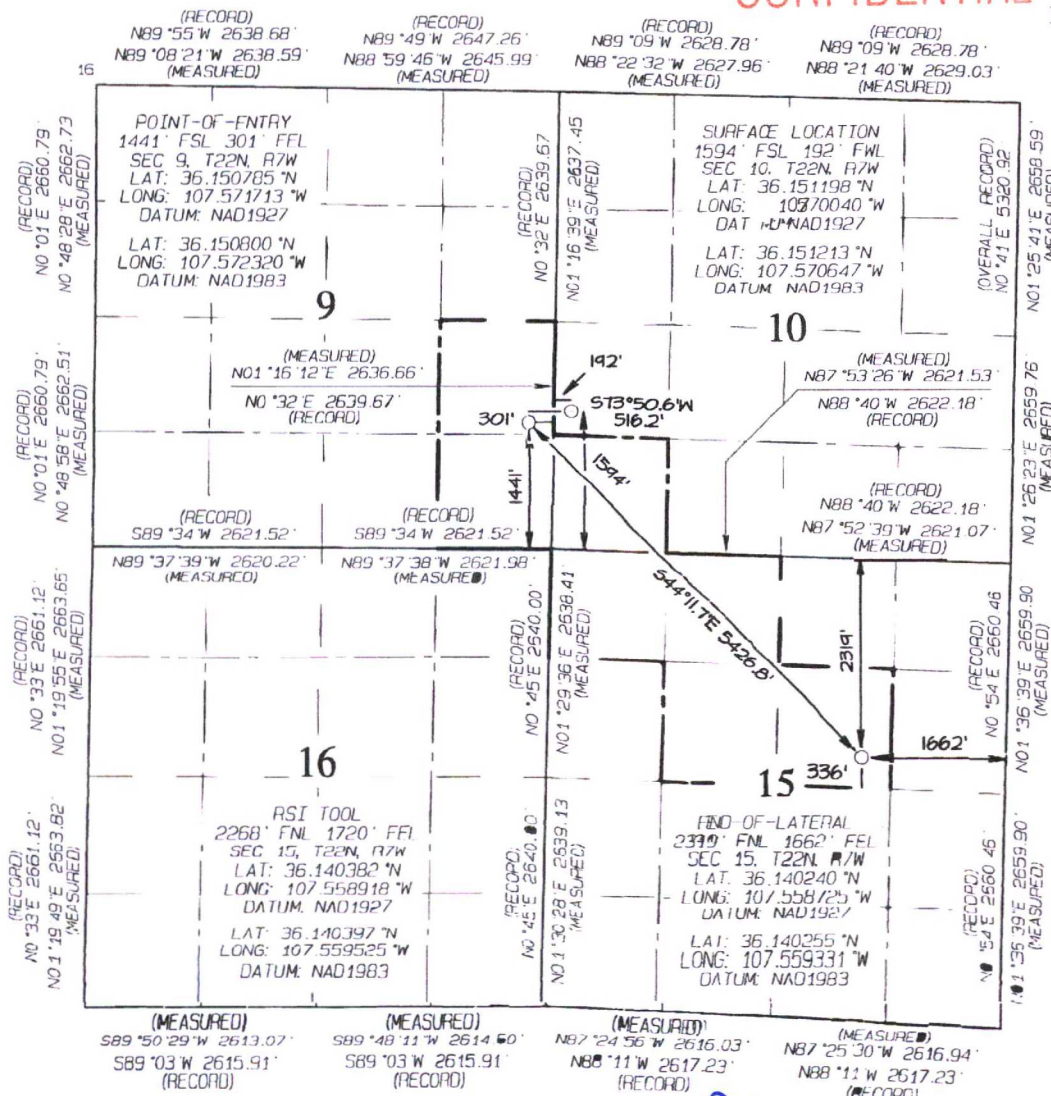
¹¹ Bottom Hole Location If Different From Surface

U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	15	22N	7W		2319	NORTH	1662	EAST	SANDOVAL

12	Dedicated Acres	E/2 SE/4 - Section 9 SW/4 SW/4 - Section 10 N/2 NW/4, SE/4 NW/4 SW/4 NE/4 - Section 15	13 Joint or Infill	14 Consolidation Code	15 Under No. R-14080
			CONFIDENTIAL NO ALLOWABLE WILL BE ASSIG		

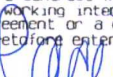
CONFIDENTIAL

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.

 12/17/18

Signature _____ Date _____

Locey Gronillo

Printed Name _____

Igronillo@enduringresources.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 20, 2017
Date of Survey: JULY 28, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

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9

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

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Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-043-21298	2 Pool Code 98172	3 Pool Name ESCAVADA N. MANCOS
4 Property Code 316006	5 Property Name N ESCAVADA UNIT	6 Well Number 331H
7 GRID No 372286	8 Operator Name ENDURING RESOURCES LLC	9 Elevation 6860'

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
L	10	22N	7W		1594	SOUTH	192	WEST	SANDOVAL

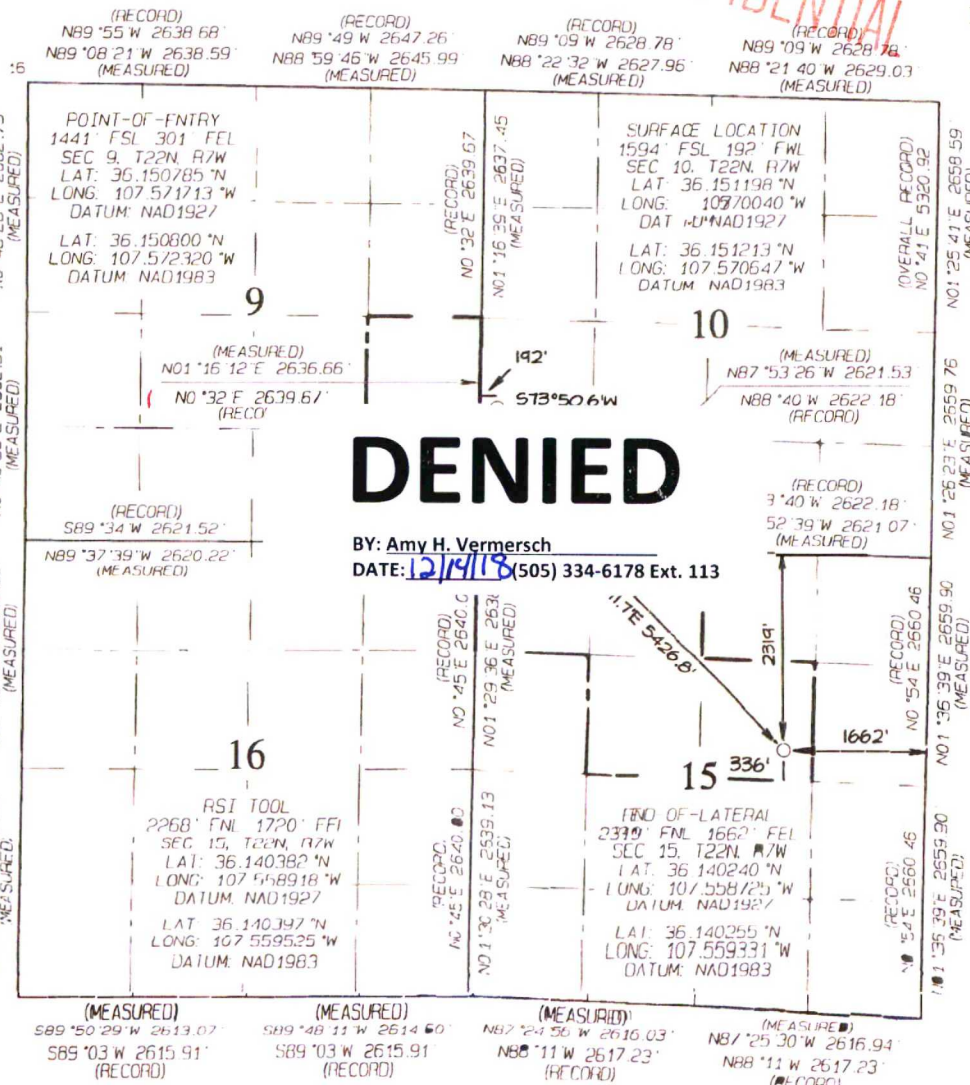
11 Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	15	22N	7W		2319	NORTH	1662	EAST	SANDOVAL

12 Dedicated Acres 280.0	E/2 SE/4 - Section 9 SW/4 SW/4 - Section 10 N/2 NW/4, SE/4 NW/4 SW/4 NE/4 - Section 15	13 Joint or Infill	14 Consolidation Code	15 Order No. H-14080
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CONFIDENTIAL

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



DENIED

BY: Amy H. Vermersch
DATE: 12/10/18 (505) 334-6178 Ext. 113

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: Lacey Granillo
Date: 12/10/18
Printed Name: Lacey Granillo
E-mail Address: lgranillo@enduringresources.com

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 20, 2017
Date of Survey: JULY 28, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

N Escavada UT 331H
Sandoval County, NM 3003 West
Northing: 1874382.27
Easting: 577731.85
Actual

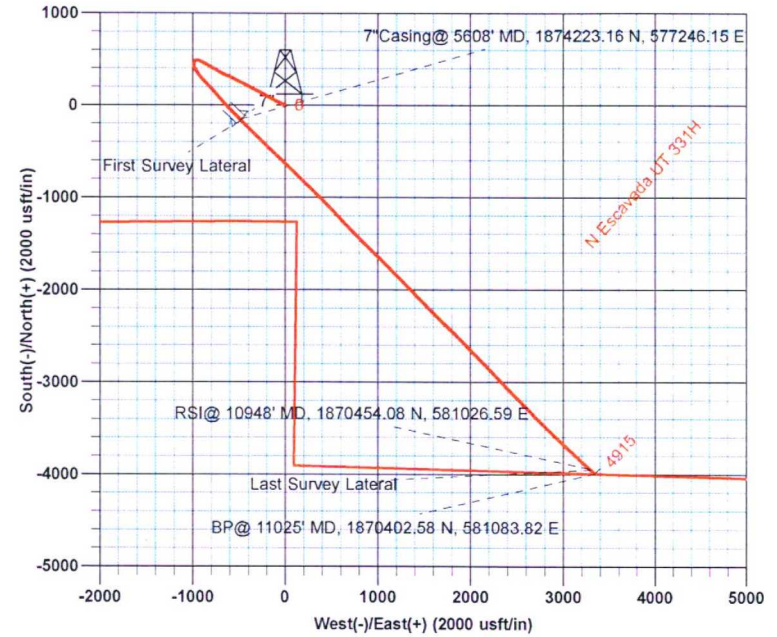
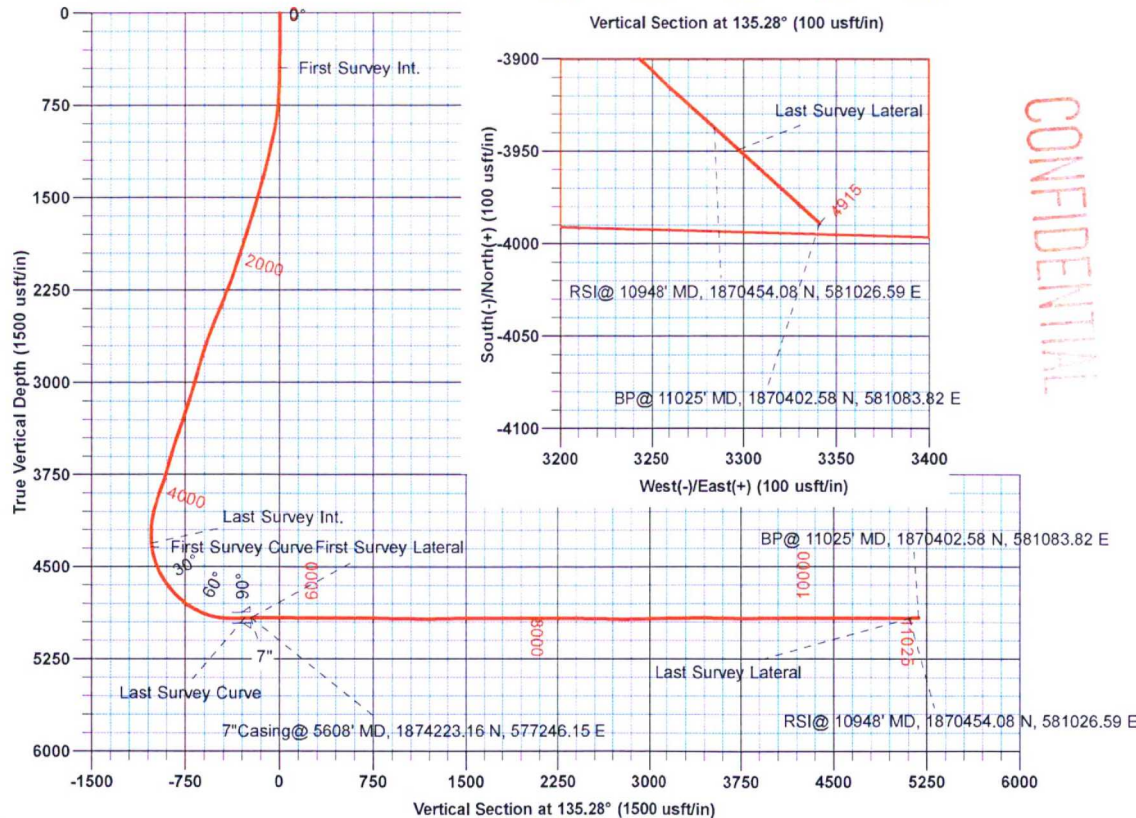
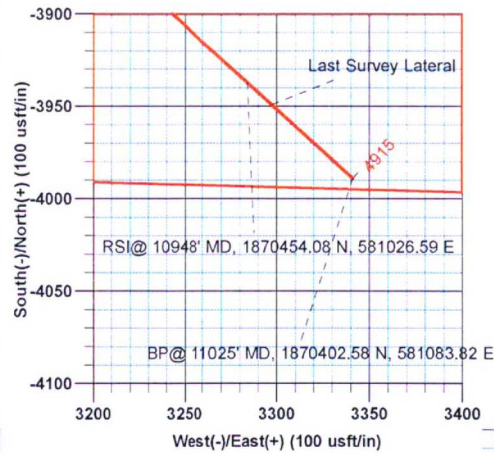
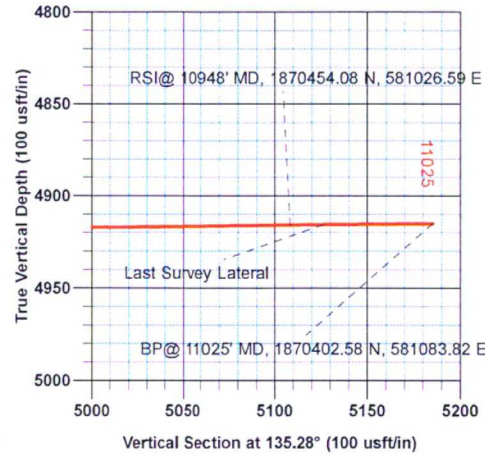
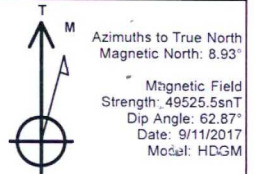
SL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
 GL @ 6860.00



WELL DETAILS N Escavada UT 331H

Ground Level: 6860.00		Latitude		Longitude
+N/-S	+E/-W	Northing	Easting	
0.00	0.00	1874382.27	577731.85	36.151198
				-107.570040

TVD	MD	ANNOTATIONS
447.99	448.00	Annotation
4311.20	4484.00	First Survey Int.
4342.20	4516.00	Last Survey Int.
4915.71	5563.00	First Survey Curve
4914.22	5608.00	Last Survey Curve
4913.85	5619.00	7"Casing@ 5608' MD, 1874223.16 N, 577246.15 E
4915.98	10948.00	First Survey Lateral
4915.75	10966.00	RSI@ 10948' MD, 1870454.08 N, 581026.59 E
4915.02	11025.00	Last Survey Lateral
		BP@ 11025' MD, 1870402.58 N, 581083.82 E



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WPX Energy

Sandoval County, NM 3003 West
N Escavada UT 315 Pad
N Escavada UT 331H
API: 30-043-21298
Wellbore #1

Design: Actual

Survey Report - Geographic

17 November, 2017

CONFIDENTIAL



www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 331H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Well:	N Escavada UT 331H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Project	Sandoval County, NM 3003 West		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site		N Escavada UT 315 Pad			
Site Position:		Northing:	1,874,369.33 usft	Latitude:	36.151162
From:	Lat/Long	Easting:	577,790.35 usft	Longitude:	-107.569842
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well	N Escavada UT 331H					
Well Position	+N/-S	0.00 usft	Northing:	1,874,382.27 usft	Latitude:	36.151198
	+E/-W	0.00 usft	Easting:	577,731.85 usft	Longitude:	-107.570040
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,860.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/11/2017	8.93	62.87	49,526

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	135.28	

Survey Program	Date	11/17/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	321.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
448.00	4,484.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,516.00	5,563.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,619.00	11,025.00	SDI MWD Lateral (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,874,382.27	577,731.85	36.151198	-107.570040	
21.00	0.00	0.00	21.00	0.00	0.00	1,874,382.27	577,731.85	36.151198	-107.570040	
51.00	0.36	76.68	51.00	0.02	0.09	1,874,382.30	577,731.95	36.151198	-107.570040	
81.00	0.23	108.25	81.00	0.02	0.24	1,874,382.30	577,732.09	36.151198	-107.570039	
111.00	0.15	84.97	111.00	0.01	0.34	1,874,382.28	577,732.19	36.151198	-107.570039	
141.00	0.15	84.90	141.00	0.02	0.42	1,874,382.29	577,732.27	36.151198	-107.570039	
171.00	0.31	130.18	171.00	-0.03	0.52	1,874,382.24	577,732.37	36.151198	-107.570039	
201.00	0.32	128.26	201.00	-0.14	0.64	1,874,382.14	577,732.50	36.151198	-107.570038	
231.00	0.40	180.41	231.00	-0.29	0.71	1,874,381.98	577,732.56	36.151197	-107.570038	

Scientific Drilling Int.
Survey Report - Geographic

Company: WPX Energy
Project: Sandovall County, NM 3003 West
Site: N Escavada UT 315 Pad
Well: N Escavada UT 331H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 331H
TVD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
MD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
261.00	0.35	215.17	261.00	-0.47	0.66	1,874,381.80	577,732.51	36.151197	-107.570038
291.00	0.68	192.79	291.00	-0.72	0.56	1,874,381.55	577,732.42	36.151196	-107.570038
321.00	0.50	201.21	320.99	-1.02	0.48	1,874,381.26	577,732.33	36.151195	-107.570039
448.00	0.54	202.43	447.99	-2.09	0.05	1,874,380.19	577,731.91	36.151192	-107.570040
First Survey Int.									
541.00	1.74	285.53	540.97	-2.11	-1.48	1,874,380.16	577,730.38	36.151192	-107.570045
635.00	3.44	299.77	634.87	-0.33	-5.30	1,874,381.93	577,726.55	36.151197	-107.570058
728.00	5.73	293.34	727.57	2.89	-11.99	1,874,385.14	577,719.86	36.151206	-107.570081
820.00	7.99	294.75	818.91	7.39	-22.01	1,874,389.61	577,709.82	36.151218	-107.570115
914.00	10.39	295.16	911.69	13.73	-35.62	1,874,395.91	577,696.20	36.151236	-107.570161
1,007.00	12.79	298.80	1,002.79	22.26	-52.23	1,874,404.39	577,679.56	36.151259	-107.570217
1,100.00	12.83	294.64	1,093.48	31.52	-70.64	1,874,413.60	577,661.13	36.151285	-107.570280
1,194.00	14.04	294.83	1,184.90	40.66	-90.48	1,874,422.69	577,641.27	36.151310	-107.570347
1,287.00	14.69	298.40	1,275.00	51.01	-111.09	1,874,432.98	577,620.63	36.151338	-107.570417
1,381.00	16.21	300.35	1,365.60	63.31	-132.90	1,874,445.22	577,598.79	36.151372	-107.570490
1,474.00	16.05	300.33	1,454.94	76.36	-155.19	1,874,458.21	577,576.45	36.151408	-107.570566
1,567.00	16.74	297.66	1,544.16	89.07	-178.15	1,874,470.86	577,553.46	36.151443	-107.570644
1,661.00	17.08	297.78	1,634.09	101.78	-202.36	1,874,483.51	577,529.22	36.151478	-107.570726
1,754.00	18.09	299.08	1,722.75	115.17	-227.06	1,874,496.83	577,504.48	36.151514	-107.570809
1,847.00	19.65	298.47	1,810.75	129.64	-253.43	1,874,511.23	577,478.08	36.151554	-107.570899
1,941.00	18.18	296.28	1,899.67	143.67	-280.47	1,874,525.18	577,451.00	36.151593	-107.570990
2,034.00	19.10	297.03	1,987.79	157.01	-307.03	1,874,538.45	577,424.40	36.151629	-107.571080
2,128.00	18.19	294.89	2,076.86	170.17	-334.04	1,874,551.54	577,397.35	36.151666	-107.571172
2,221.00	21.80	298.62	2,164.24	184.56	-362.38	1,874,565.85	577,368.98	36.151705	-107.571268
2,314.00	22.06	298.06	2,250.51	201.05	-392.95	1,874,582.25	577,338.36	36.151750	-107.571371
2,408.00	22.99	297.43	2,337.34	217.81	-424.82	1,874,598.93	577,306.44	36.151796	-107.571479
2,501.00	21.91	299.01	2,423.29	234.59	-456.12	1,874,615.62	577,275.10	36.151843	-107.571585
2,594.00	22.83	298.31	2,509.29	251.56	-487.18	1,874,632.51	577,244.00	36.151889	-107.571690
2,689.00	21.43	294.35	2,597.29	267.46	-519.22	1,874,648.32	577,211.92	36.151933	-107.571799
2,784.00	19.36	296.14	2,686.34	281.55	-549.17	1,874,662.34	577,181.93	36.151972	-107.571900
2,879.00	17.81	295.79	2,776.38	294.81	-576.38	1,874,675.52	577,154.67	36.152008	-107.571993
2,974.00	16.18	293.30	2,867.23	306.37	-601.62	1,874,687.01	577,129.40	36.152040	-107.572078
3,069.00	16.09	293.18	2,958.49	316.78	-625.88	1,874,697.36	577,105.11	36.152068	-107.572160
3,165.00	16.77	298.30	3,050.57	328.59	-650.31	1,874,709.10	577,080.66	36.152101	-107.572243
3,260.00	18.20	296.54	3,141.18	341.71	-675.65	1,874,722.16	577,055.28	36.152137	-107.572329
3,355.00	18.91	298.56	3,231.24	355.70	-702.44	1,874,736.07	577,028.45	36.152175	-107.572420
3,450.00	18.25	298.78	3,321.29	370.22	-729.00	1,874,750.52	577,001.85	36.152215	-107.572510
3,545.00	19.22	300.28	3,411.26	385.27	-755.54	1,874,765.50	576,975.27	36.152256	-107.572599
3,640.00	17.42	297.63	3,501.44	399.75	-781.65	1,874,779.91	576,949.12	36.152296	-107.572688
3,735.00	18.44	298.68	3,591.82	413.56	-807.43	1,874,793.64	576,923.31	36.152334	-107.572775
3,830.00	15.40	297.06	3,682.70	426.51	-831.85	1,874,806.53	576,898.85	36.152370	-107.572858
3,925.00	17.10	301.39	3,773.91	439.52	-855.01	1,874,819.48	576,875.66	36.152406	-107.572936
4,008.00	19.43	302.99	3,852.72	453.40	-877.01	1,874,833.30	576,853.62	36.152444	-107.573011
4,104.00	19.18	296.33	3,943.33	469.09	-904.54	1,874,848.91	576,826.05	36.152487	-107.573104
4,135.00	18.65	296.26	3,972.66	473.54	-913.55	1,874,853.34	576,817.03	36.152499	-107.573135
4,167.00	18.04	295.27	4,003.03	477.92	-922.62	1,874,857.69	576,807.95	36.152511	-107.573165
4,199.00	16.74	289.69	4,033.57	481.59	-931.44	1,874,861.34	576,799.12	36.152521	-107.573195
4,230.00	15.79	280.10	4,063.33	483.83	-939.79	1,874,863.56	576,790.75	36.152527	-107.573224
4,262.00	14.29	271.83	4,094.24	484.72	-948.03	1,874,864.43	576,782.51	36.152530	-107.573251
4,294.00	12.85	263.99	4,125.35	484.48	-955.52	1,874,864.16	576,775.03	36.152529	-107.573277
4,325.00	11.45	254.34	4,155.66	483.29	-961.91	1,874,862.95	576,768.64	36.152526	-107.573298
4,357.00	11.29	243.50	4,187.03	481.03	-967.77	1,874,860.68	576,762.78	36.152520	-107.573318
4,389.00	11.85	234.04	4,218.39	477.70	-973.23	1,874,857.34	576,757.33	36.152510	-107.573337
4,421.00	12.11	222.24	4,249.69	473.29	-978.15	1,874,852.91	576,752.42	36.152498	-107.573353
4,452.00	12.32	210.21	4,280.00	468.02	-982.00	1,874,847.63	576,748.59	36.152484	-107.573367

Scientific Drilling Int.
Survey Report - Geographic

Company: WPX Energy
Project: Sandovall County, NM 3003 West
Site: N Escavada UT 315 Pad
Well: N Escavada UT 331H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 331H
TVD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
MD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,484.00	13.39	201.57	4,311.20	461.62	-985.08	1,874,841.23	576,745.52	36.152466	-107.573377
Last Survey Int.									
4,516.00	15.36	196.14	4,342.20	454.11	-987.62	1,874,833.70	576,743.00	36.152446	-107.573386
First Survey Curve									
4,547.00	16.59	188.17	4,372.00	445.78	-989.39	1,874,825.37	576,741.26	36.152423	-107.573392
4,579.00	18.00	177.63	4,402.56	436.32	-989.84	1,874,815.91	576,740.84	36.152397	-107.573393
4,611.00	20.17	171.06	4,432.80	425.92	-988.78	1,874,805.52	576,741.93	36.152368	-107.573389
4,642.00	22.17	163.94	4,461.72	415.02	-986.33	1,874,794.62	576,744.41	36.152338	-107.573381
4,674.00	23.41	157.33	4,491.22	403.35	-982.21	1,874,782.96	576,748.56	36.152306	-107.573367
4,706.00	25.53	150.25	4,520.35	391.49	-976.33	1,874,771.12	576,754.46	36.152274	-107.573347
4,737.00	28.17	147.00	4,548.01	379.55	-969.03	1,874,759.20	576,761.80	36.152241	-107.573323
4,769.00	30.03	145.92	4,575.97	366.59	-960.43	1,874,746.26	576,770.44	36.152205	-107.573293
4,801.00	32.35	145.64	4,603.34	352.88	-951.11	1,874,732.58	576,779.79	36.152167	-107.573262
4,832.00	34.66	145.40	4,629.19	338.78	-941.42	1,874,718.50	576,789.52	36.152129	-107.573229
4,864.00	36.41	143.81	4,655.23	323.62	-930.64	1,874,703.37	576,800.34	36.152087	-107.573193
4,896.00	38.33	140.84	4,680.66	308.26	-918.77	1,874,688.04	576,812.25	36.152045	-107.573152
4,927.00	40.62	138.43	4,704.59	293.26	-906.00	1,874,673.07	576,825.06	36.152004	-107.573109
4,959.00	43.09	137.41	4,728.42	277.41	-891.69	1,874,657.27	576,839.42	36.151960	-107.573061
4,991.00	45.94	137.29	4,751.24	260.91	-876.49	1,874,640.81	576,854.66	36.151915	-107.573009
5,023.00	48.81	137.42	4,772.91	243.60	-860.54	1,874,623.54	576,870.66	36.151867	-107.572955
5,054.00	51.52	138.22	4,792.76	225.96	-844.56	1,874,605.94	576,886.68	36.151819	-107.572901
5,086.00	54.19	138.39	4,812.08	206.91	-827.60	1,874,586.94	576,903.70	36.151766	-107.572844
5,118.00	58.00	136.74	4,829.93	187.32	-809.67	1,874,567.40	576,921.68	36.151713	-107.572783
5,149.00	61.09	135.06	4,845.64	168.14	-791.08	1,874,548.27	576,940.33	36.151660	-107.572720
5,181.00	65.08	136.08	4,860.13	147.76	-771.11	1,874,527.95	576,960.35	36.151604	-107.572652
5,213.00	66.47	137.91	4,873.26	126.42	-751.21	1,874,506.66	576,980.31	36.151545	-107.572585
5,245.00	69.16	139.57	4,885.34	104.15	-731.67	1,874,484.44	576,999.90	36.151484	-107.572519
5,276.00	73.66	140.34	4,895.22	81.66	-712.78	1,874,462.00	577,018.86	36.151422	-107.572455
5,308.00	76.58	138.54	4,903.44	58.17	-692.67	1,874,438.56	577,039.03	36.151358	-107.572386
5,339.00	80.02	137.41	4,909.72	35.62	-672.35	1,874,416.07	577,059.41	36.151296	-107.572318
5,371.00	83.60	137.49	4,914.28	12.29	-650.93	1,874,392.80	577,080.89	36.151232	-107.572245
5,403.00	87.58	136.33	4,916.74	-11.00	-629.14	1,874,369.57	577,102.75	36.151168	-107.572171
5,435.00	89.40	136.05	4,917.58	-34.08	-606.99	1,874,346.54	577,124.95	36.151104	-107.572096
5,530.00	91.65	135.76	4,916.71	-102.31	-540.90	1,874,278.50	577,191.24	36.150917	-107.571872
5,563.00	91.85	135.75	4,915.71	-125.93	-517.88	1,874,254.94	577,214.32	36.150852	-107.571794
Last Survey Curve									
5,597.25	91.91	134.77	4,914.58	-150.25	-493.79	1,874,230.69	577,238.48	36.150785	-107.571713
331H POE									
5,608.00	91.93	134.46	4,914.22	-157.79	-486.14	1,874,223.16	577,246.15	36.150765	-107.571687
7"Casing@ 5608' MD, 1874223.16 N, 577246.15 E - 7"									
5,619.00	91.95	134.14	4,913.85	-165.47	-478.27	1,874,215.51	577,254.04	36.150744	-107.571660
First Survey Lateral									
5,683.00	89.97	134.99	4,912.78	-210.37	-432.68	1,874,170.73	577,299.75	36.150620	-107.571506
5,778.00	89.23	134.75	4,913.44	-277.39	-365.36	1,874,103.89	577,367.25	36.150436	-107.571278
5,873.00	89.43	134.60	4,914.55	-344.18	-297.81	1,874,037.29	577,434.98	36.150253	-107.571049
5,968.00	89.50	133.87	4,915.44	-410.45	-229.74	1,873,971.20	577,503.22	36.150071	-107.570818
6,063.00	90.43	134.95	4,915.50	-476.93	-161.88	1,873,904.91	577,571.27	36.149888	-107.570589
6,156.00	90.27	134.41	4,914.93	-542.32	-95.76	1,873,839.70	577,637.57	36.149708	-107.570365
6,250.00	90.17	134.13	4,914.57	-607.93	-28.45	1,873,774.27	577,705.06	36.149528	-107.570137
6,343.00	89.83	133.17	4,914.57	-672.13	38.84	1,873,710.26	577,772.52	36.149352	-107.569909
6,436.00	90.20	132.80	4,914.54	-735.53	106.88	1,873,647.03	577,840.72	36.149177	-107.569678
6,530.00	89.29	132.93	4,914.96	-799.48	175.77	1,873,583.28	577,909.79	36.149002	-107.569445
6,623.00	88.73	134.41	4,916.57	-863.68	243.03	1,873,519.25	577,977.23	36.148825	-107.569217
6,716.00	88.76	136.24	4,918.60	-929.80	308.40	1,873,453.32	578,042.77	36.148644	-107.568996

Scientific Drilling Int.
Survey Report - Geographic

Company: WPX Energy
Project: Sandoval County, NM 3003 West
Site: N Escavada UT 315 Pad
Well: N Escavada UT 331H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 331H
TVD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
MD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,809.00	88.59	135.17	4,920.76	-996.34	373.33	1,873,386.95	578,107.88	36.148461	-107.568776
6,902.00	90.24	136.59	4,921.70	-1,063.10	438.06	1,873,320.37	578,172.80	36.148278	-107.568557
6,996.00	89.93	136.43	4,921.57	-1,131.30	502.76	1,873,252.35	578,237.68	36.148090	-107.568337
7,089.00	89.90	135.97	4,921.70	-1,198.42	567.13	1,873,185.40	578,302.23	36.147906	-107.568119
7,182.00	90.87	136.91	4,921.08	-1,265.81	631.21	1,873,118.18	578,366.49	36.147721	-107.567902
7,276.00	91.27	136.51	4,919.32	-1,334.22	695.65	1,873,049.95	578,431.12	36.147533	-107.567684
7,369.00	91.10	135.74	4,917.40	-1,401.24	760.10	1,872,983.10	578,495.75	36.147349	-107.567466
7,462.00	90.94	135.44	4,915.74	-1,467.67	825.17	1,872,916.85	578,561.00	36.147166	-107.567245
7,556.00	89.20	133.41	4,915.63	-1,533.46	892.29	1,872,851.24	578,628.30	36.146985	-107.567018
7,649.00	88.89	132.88	4,917.18	-1,597.05	960.14	1,872,787.84	578,696.32	36.146811	-107.566788
7,743.00	88.69	135.14	4,919.16	-1,662.34	1,027.72	1,872,722.73	578,764.08	36.146631	-107.566559
7,836.00	90.37	136.88	4,919.93	-1,729.24	1,092.31	1,872,656.00	578,828.85	36.146448	-107.566341
7,929.00	90.54	136.58	4,919.19	-1,796.96	1,156.05	1,872,588.46	578,892.77	36.146261	-107.566125
8,023.00	89.90	136.19	4,918.83	-1,865.01	1,220.89	1,872,520.58	578,957.80	36.146075	-107.565905
8,116.00	89.87	135.60	4,919.01	-1,931.79	1,285.62	1,872,453.98	579,022.71	36.145891	-107.565686
8,209.00	89.30	134.89	4,919.69	-1,997.83	1,351.10	1,872,388.12	579,088.36	36.145710	-107.565464
8,303.00	89.46	134.65	4,920.71	-2,064.03	1,417.83	1,872,322.10	579,155.27	36.145528	-107.565238
8,396.00	89.73	135.90	4,921.36	-2,130.10	1,483.27	1,872,256.21	579,220.89	36.145346	-107.565017
8,489.00	89.33	135.20	4,922.13	-2,196.48	1,548.39	1,872,190.00	579,286.20	36.145164	-107.564796
8,583.00	89.43	134.97	4,923.14	-2,263.05	1,614.76	1,872,123.61	579,352.74	36.144981	-107.564571
8,678.00	89.66	134.85	4,923.90	-2,330.11	1,682.04	1,872,056.73	579,420.20	36.144797	-107.564343
8,773.00	91.44	135.05	4,922.99	-2,397.23	1,749.26	1,871,989.80	579,487.61	36.144612	-107.564116
8,868.00	90.60	133.71	4,921.29	-2,463.66	1,817.15	1,871,923.55	579,555.68	36.144430	-107.563886
8,963.00	91.28	136.21	4,919.74	-2,530.77	1,884.36	1,871,856.62	579,623.06	36.144245	-107.563658
9,058.00	91.48	136.29	4,917.45	-2,599.38	1,950.03	1,871,788.20	579,688.92	36.144057	-107.563436
9,153.00	91.21	136.34	4,915.22	-2,668.06	2,015.63	1,871,719.69	579,754.71	36.143868	-107.563214
9,248.00	89.40	136.25	4,914.71	-2,736.73	2,081.26	1,871,651.20	579,820.53	36.143680	-107.562991
9,343.00	88.66	135.64	4,916.32	-2,804.99	2,147.31	1,871,583.12	579,886.76	36.143492	-107.562768
9,438.00	89.06	135.63	4,918.21	-2,872.89	2,213.73	1,871,515.39	579,953.36	36.143306	-107.562543
9,533.00	89.63	136.04	4,919.30	-2,941.03	2,279.91	1,871,447.43	580,019.73	36.143118	-107.562319
9,628.00	89.40	136.00	4,920.10	-3,009.39	2,345.88	1,871,379.25	580,085.88	36.142930	-107.562095
9,723.00	90.57	136.82	4,920.13	-3,078.20	2,411.38	1,871,310.62	580,151.57	36.142741	-107.561873
9,818.00	90.54	136.91	4,919.21	-3,147.52	2,476.33	1,871,241.48	580,216.71	36.142551	-107.561653
9,913.00	89.63	136.15	4,919.06	-3,216.46	2,541.68	1,871,172.71	580,282.25	36.142362	-107.561432
10,008.00	89.30	135.56	4,919.95	-3,284.63	2,607.85	1,871,104.73	580,348.59	36.142174	-107.561208
10,103.00	90.34	136.08	4,920.25	-3,352.76	2,674.05	1,871,036.78	580,414.98	36.141987	-107.560984
10,198.00	90.54	135.44	4,919.52	-3,420.82	2,740.33	1,870,968.90	580,481.44	36.141800	-107.560759
10,293.00	91.34	135.11	4,917.96	-3,488.30	2,807.17	1,870,901.59	580,548.47	36.141615	-107.560533
10,388.00	90.91	134.86	4,916.10	-3,555.45	2,874.35	1,870,834.63	580,615.83	36.141430	-107.560306
10,483.00	89.29	133.38	4,915.93	-3,621.58	2,942.54	1,870,768.69	580,684.20	36.141249	-107.560075
10,578.00	89.52	132.84	4,916.92	-3,686.50	3,011.89	1,870,703.95	580,753.73	36.141070	-107.559840
10,674.00	89.60	132.97	4,917.65	-3,751.85	3,082.21	1,870,638.79	580,824.22	36.140891	-107.559602
10,769.00	90.27	132.66	4,917.76	-3,816.42	3,151.90	1,870,574.42	580,894.09	36.140713	-107.559366
10,864.00	90.67	132.37	4,916.98	-3,880.61	3,221.92	1,870,510.41	580,964.28	36.140537	-107.559129
10,948.00	90.70	132.17	4,915.98	-3,937.11	3,284.07	1,870,454.08	581,026.59	36.140382	-107.558918
RSI@ 10948' MD, 1870454.08 N, 581026.59 E									
10,966.00	90.71	132.13	4,915.75	-3,949.19	3,297.42	1,870,442.04	581,039.96	36.140348	-107.558873
Last Survey Lateral									
11,025.00	90.71	132.13	4,915.02	-3,988.77	3,341.17	1,870,402.58	581,083.82	36.140240	-107.558725
BP@ 11025' MD, 1870402.58 N, 581083.82 E - 331H BHL									

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 331H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 32)
Well:	N Escavada UT 331H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	Grand Junction District

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")
5,608.00	4,914.22	7"		7	8-3/4

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
448.00	447.99	-2.09	0.05	First Survey Int.	
4,484.00	4,311.20	461.62	-985.08	Last Survey Int.	
4,516.00	4,342.20	454.11	-987.62	First Survey Curve	
5,563.00	4,915.71	-125.93	-517.88	Last Survey Curve	
5,608.00	4,914.22	-157.79	-486.14	7"Casing@ 5608' MD, 1874223.16 N, 577246.15 E	
5,619.00	4,913.85	-165.47	-478.27	First Survey Lateral	
10,948.00	4,915.98	-3,937.11	3,284.07	RSI@ 10948' MD, 1870454.08 N, 581026.59 E	
10,966.00	4,915.75	-3,949.19	3,297.42	Last Survey Lateral	
11,025.00	4,915.02	-3,988.77	3,341.17	BP@ 11025' MD, 1870402.58 N, 581083.82 E	

Checked By: _____ Approved By: _____ Date: _____