

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

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

As Drilled

DEC 17 2018

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21299		*Pool Code 98172		*Pool Name ESCAVADA N; MANCOS	
*Property Code 321250		*Property Name N ESCAVADA UNIT			*Well Number 330H
Ogrid No. 372286		Operator Name Enduring Resources			*Elevation 6860'

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		1587	SOUTH	231	WEST	SANDOVAL

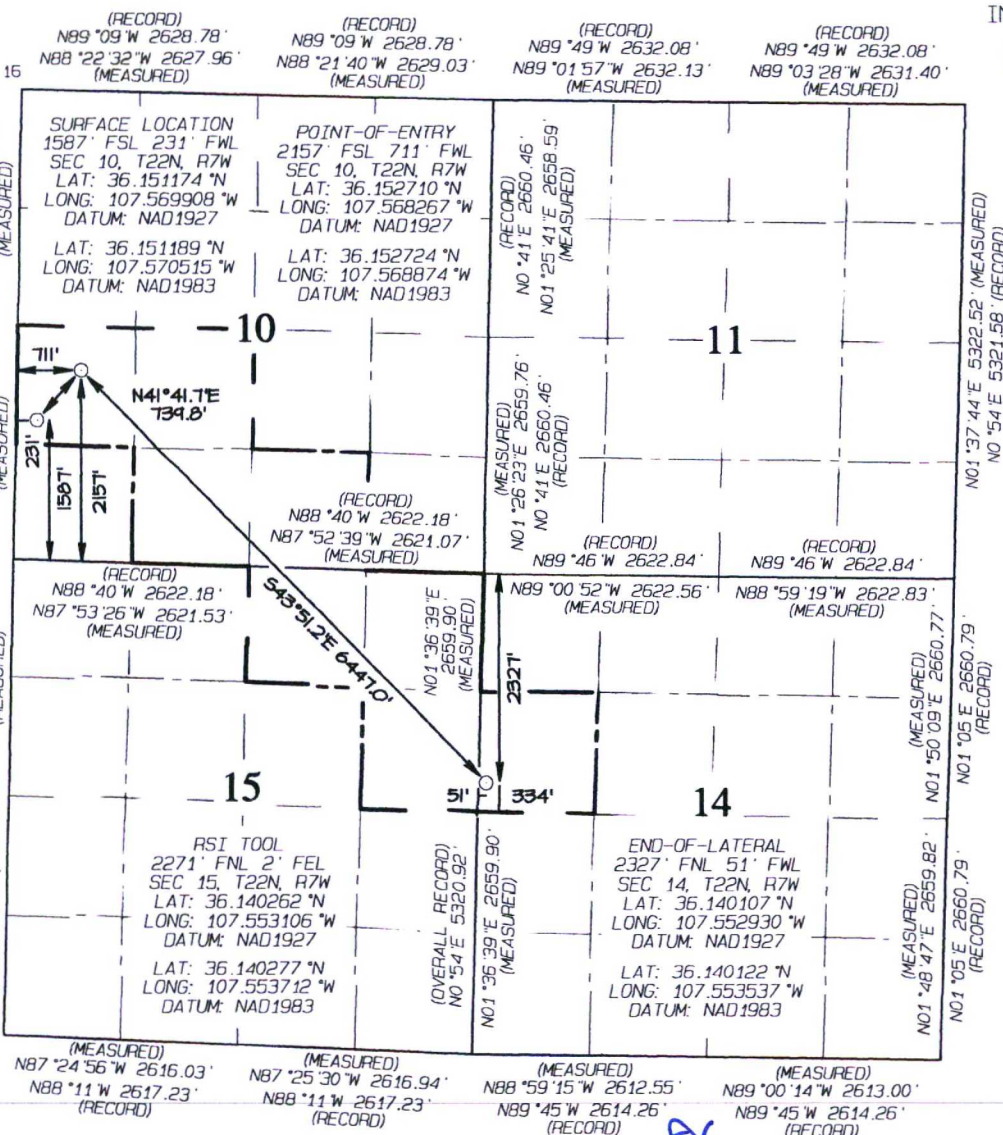
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	14	22N	7W		2327	NORTH	51	WEST	SANDOVAL

12 Dedicated Acres 320.0		N/2 SW/4, SE/4 SW/4 SW/4 SE/4 - Section 10 N/2 NE/4, SE/4 NE/4 - Section 15 SW/4 NW/4 - Section 14		13 Joint or Infill	14 Consolidation Code	15 Order No. R-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



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: [Signature] Date: 12/17/18

Lacey Granillo

Printed Name

lgranillo@enduringresources.com

E-mail Address

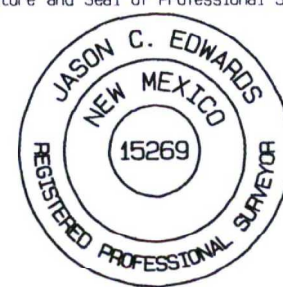
18 SURVEYOR CERTIFICATION

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: JANUARY 10, 2018

Date of Survey: JULY 28, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

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Santa Fe, NM 87505

☐ AMENDED REPORT

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21299		² Pool Code 98172		³ Pool Name ESCAVADA N; MANCOS	
⁴ Property Code 316005		⁵ Property Name N ESCAVADA UNIT		⁶ Well Number 330H	
⁷ GRID No. 372286		⁸ Operator Name ENDURING RESOURCES		⁹ Elevation 6860'	

¹⁰ Surface Location

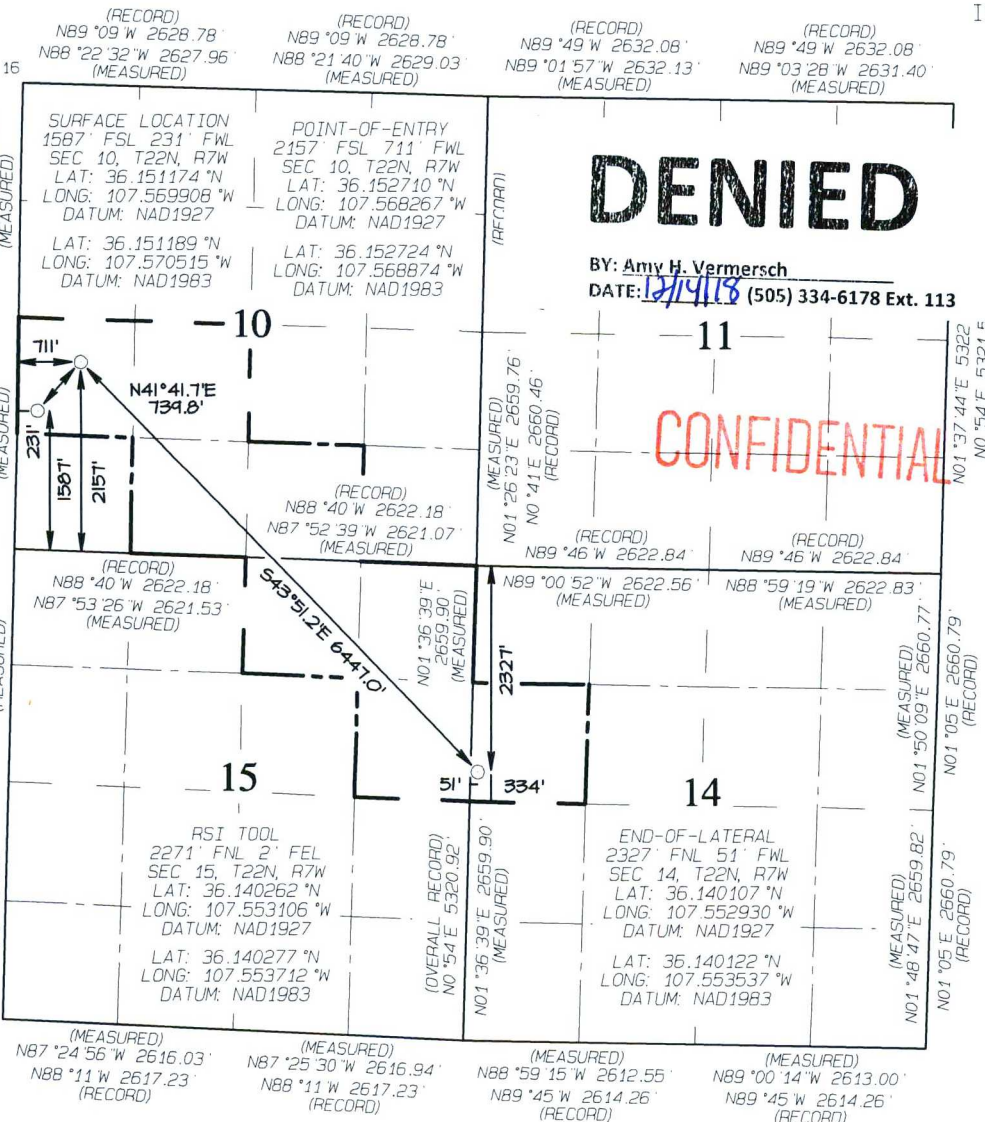
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	22N	7W		1587	SOUTH	231	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

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E	14	22N	7W		2327	NORTH	51	WEST	SANDOVAL

¹² Dedicated Acres 320.0		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. R-14080	
N/2 SW/4, SE/4 SW/4 SW/4 SE/4 - Section 10 N/2 NE/4, SE/4 NE/4 - Section 15 SW/4 NW/4 - Section 14							

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TO THIS COMPLETION UNTIL ALL
INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS
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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: 12/19/18
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: JANUARY 10, 2018
Date of Survey: JULY 28, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



N Escavada UT 330H
Sandoval County, NM 3003 West
Northing: 1874373.64
Easting: 577770.85
Actual

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



WELL DETAILS

N Escavada UT 330H

Ground Level: 6860.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1874373.64	577770.85	36.151174	-107.569908

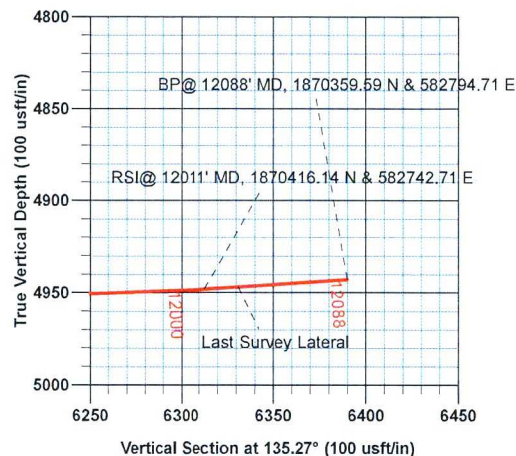
TVD	MD
446.99	447.00
4047.78	4200.00
4933.90	5519.00
4931.94	5566.00
4929.19	5620.00
4948.05	12011.00
4946.90	12029.00
4942.89	12088.00

ANNOTATIONS

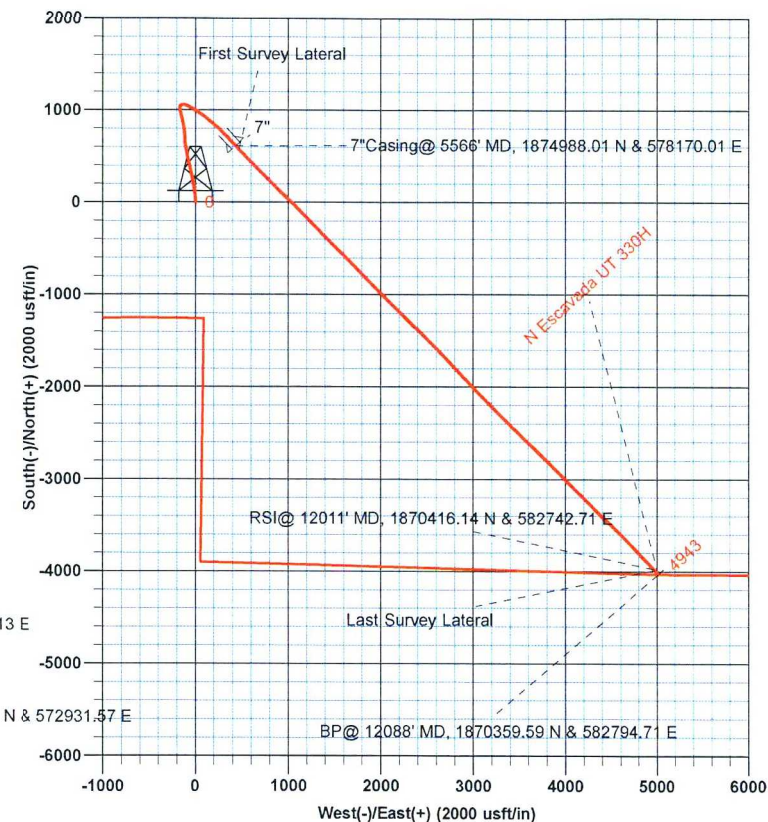
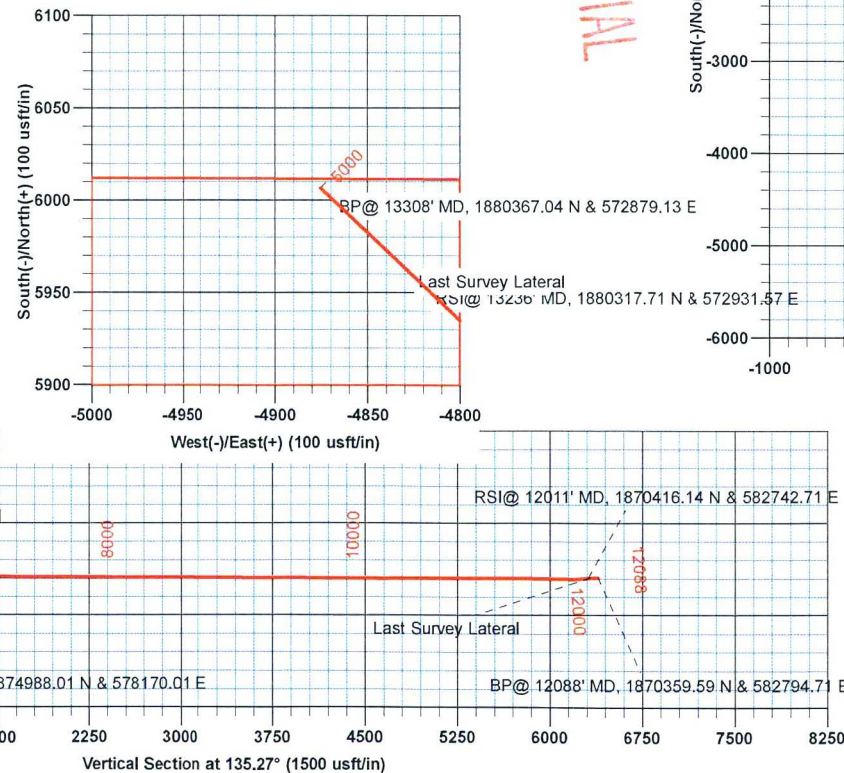
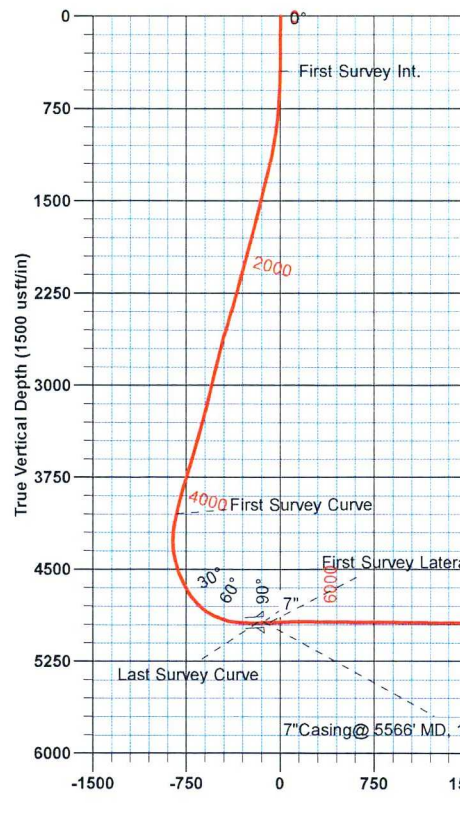
Annotation
First Survey Int.
Last Survey Curve
7"Casing@ 5566' MD, 1874988.01 N & 578170.01 E
First Survey Lateral
RSI@ 12011' MD, 1870416.14 N & 582742.71 E
Last Survey Lateral
BP@ 12088' MD, 1870359.59 N & 582794.71 E



Azimuths to True North
Magnetic North: 8.93°
Magnetic Field
Strength: 49525.5snT
Dip Angle: 62.87°
Date: 9/11/2017
Model: HDGM



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Bailey Fellows
8:51, November 09 2017
Scientific Drilling
325 S. Faudree Rd.
Odessa, TX 79765

WPX Energy

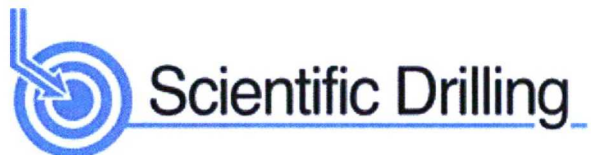
Sandoval County, NM 3003 West
N Escavada UT 315 Pad
N Escavada UT 330H
API: 30-043-21299
Wellbore #1

Design: Actual

Survey Report - Geographic

09 November, 2017

CONFIDENTIAL



www.scientificdrilling.com



Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 330H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
Well:	N Escavada UT 330H	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 330H					
Well Position	+N/-S	0.00 usft	Northing:	1,874,373.64 usft	Latitude:	36.151174
	+E/-W	0.00 usft	Easting:	577,770.85 usft	Longitude:	-107.569908
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	135.27	

Survey Program	Date	11/9/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
21.00	308.00	Gyros (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
447.00	4,020.00	SDI MWD Intermediate (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
4,115.00	5,519.00	SDI MWD Curve (Wellbore #1)	MWD+HDGM	OWSG MWD + HDGM	
5,620.00	12,088.00	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	1,874,373.64	577,770.85	36.151174	-107.569908	
21.00	0.00	0.00	21.00	0.00	0.00	1,874,373.64	577,770.85	36.151174	-107.569908	
51.00	0.40	87.97	51.00	0.00	0.10	1,874,373.65	577,770.95	36.151174	-107.569908	
81.00	0.61	107.12	81.00	-0.04	0.36	1,874,373.61	577,771.21	36.151174	-107.569907	
111.00	0.45	60.43	111.00	-0.03	0.62	1,874,373.62	577,771.47	36.151174	-107.569906	
141.00	0.71	49.27	141.00	0.15	0.86	1,874,373.80	577,771.71	36.151175	-107.569905	
171.00	0.23	61.42	170.99	0.30	1.05	1,874,373.95	577,771.90	36.151175	-107.569905	
201.00	0.18	72.24	200.99	0.34	1.15	1,874,373.99	577,772.00	36.151175	-107.569904	
231.00	0.11	329.41	230.99	0.38	1.18	1,874,374.03	577,772.03	36.151175	-107.569904	

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 330H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 330H
TVD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
MD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
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	0.29	10.43	260.99	0.48	1.18	1,874,374.13	577,772.03	36.151175	-107.569904
291.00	0.29	224.41	290.99	0.50	1.14	1,874,374.15	577,771.99	36.151175	-107.569904
308.00	0.33	279.68	307.99	0.48	1.06	1,874,374.13	577,771.91	36.151175	-107.569905
447.00	0.09	92.76	446.99	0.54	0.78	1,874,374.19	577,771.62	36.151176	-107.569906
First Survey Int.									
541.00	2.07	353.26	540.97	2.23	0.65	1,874,375.87	577,771.49	36.151180	-107.569906
634.00	4.86	355.69	633.79	7.82	0.16	1,874,381.47	577,770.99	36.151196	-107.569908
728.00	7.50	3.18	727.24	17.92	0.20	1,874,391.57	577,771.00	36.151223	-107.569908
820.00	7.89	3.42	818.41	30.22	0.91	1,874,403.87	577,771.68	36.151257	-107.569905
913.00	9.39	356.59	910.36	44.17	0.84	1,874,417.81	577,771.57	36.151295	-107.569905
1,007.00	11.64	353.87	1,002.77	61.25	-0.63	1,874,434.89	577,770.05	36.151342	-107.569910
1,100.00	13.72	352.96	1,093.50	81.53	-2.98	1,874,455.16	577,767.64	36.151398	-107.569918
1,193.00	15.01	351.99	1,183.59	104.40	-6.01	1,874,478.03	577,764.55	36.151461	-107.569929
1,287.00	15.88	353.26	1,274.19	129.22	-9.22	1,874,502.84	577,761.28	36.151529	-107.569939
1,380.00	16.90	351.69	1,363.42	155.24	-12.67	1,874,528.85	577,757.76	36.151601	-107.569951
1,474.00	18.91	353.11	1,452.86	183.88	-16.47	1,874,557.48	577,753.88	36.151679	-107.569964
1,567.00	17.10	349.27	1,541.30	212.28	-20.82	1,874,585.87	577,749.45	36.151757	-107.569979
1,660.00	14.42	346.77	1,630.80	236.99	-26.02	1,874,610.56	577,744.19	36.151825	-107.569996
1,754.00	15.76	343.66	1,721.56	260.64	-32.29	1,874,634.19	577,737.85	36.151890	-107.570018
1,847.00	17.83	351.78	1,810.60	286.85	-37.88	1,874,660.39	577,732.19	36.151962	-107.570037
1,940.00	18.37	349.43	1,899.00	315.35	-42.60	1,874,688.88	577,727.39	36.152040	-107.570053
2,034.00	18.23	347.81	1,988.24	344.28	-48.43	1,874,717.80	577,721.49	36.152120	-107.570072
2,127.00	17.19	347.16	2,076.84	371.90	-54.55	1,874,745.40	577,715.29	36.152196	-107.570093
2,221.00	17.60	346.41	2,166.54	399.26	-60.98	1,874,772.74	577,708.79	36.152271	-107.570115
2,314.00	17.01	345.37	2,255.33	426.09	-67.72	1,874,799.55	577,701.98	36.152345	-107.570138
2,407.00	18.56	347.16	2,343.88	453.68	-74.44	1,874,827.12	577,695.18	36.152420	-107.570160
2,500.00	18.40	346.14	2,432.09	482.36	-81.25	1,874,855.79	577,688.29	36.152499	-107.570183
2,594.00	19.23	345.35	2,521.06	511.74	-88.72	1,874,885.15	577,680.74	36.152580	-107.570209
2,689.00	18.67	350.83	2,610.92	541.89	-95.10	1,874,915.28	577,674.28	36.152663	-107.570230
2,784.00	17.95	349.46	2,701.11	571.30	-100.20	1,874,944.67	577,669.10	36.152744	-107.570248
2,879.00	15.42	347.92	2,792.10	598.05	-105.52	1,874,971.40	577,663.71	36.152817	-107.570266
2,974.00	15.31	356.42	2,883.72	622.92	-108.95	1,874,996.26	577,660.21	36.152885	-107.570277
3,069.00	17.36	354.23	2,974.88	649.54	-111.16	1,875,022.88	577,657.93	36.152958	-107.570285
3,164.00	18.55	357.14	3,065.25	678.73	-113.33	1,875,052.07	577,655.67	36.153039	-107.570292
3,259.00	17.59	356.99	3,155.57	708.16	-114.84	1,875,081.49	577,654.09	36.153120	-107.570297
3,354.00	19.86	355.90	3,245.53	738.60	-116.75	1,875,111.92	577,652.10	36.153203	-107.570304
3,449.00	18.64	355.64	3,335.22	769.83	-119.06	1,875,143.15	577,649.70	36.153289	-107.570312
3,544.00	20.03	351.28	3,424.86	801.05	-122.68	1,875,174.36	577,646.00	36.153375	-107.570324
3,639.00	18.36	351.69	3,514.58	831.94	-127.31	1,875,205.24	577,641.28	36.153460	-107.570340
3,734.00	18.20	345.96	3,604.79	861.14	-133.07	1,875,234.42	577,635.44	36.153540	-107.570359
3,829.00	19.53	347.47	3,694.69	891.04	-140.11	1,875,264.30	577,628.32	36.153622	-107.570383
3,925.00	20.27	347.73	3,784.96	922.95	-147.13	1,875,296.19	577,621.21	36.153710	-107.570407
4,020.00	18.05	347.42	3,874.69	953.40	-153.83	1,875,326.62	577,614.43	36.153793	-107.570429
4,168.00	14.44	343.22	4,016.76	993.46	-164.16	1,875,366.65	577,603.99	36.153903	-107.570464
4,200.00	14.00	341.55	4,047.78	1,000.95	-166.54	1,875,374.14	577,601.60	36.153924	-107.570472
First Survey Curve									
4,231.00	13.53	343.66	4,077.89	1,007.99	-168.74	1,875,381.17	577,599.37	36.153943	-107.570480
4,263.00	12.51	352.35	4,109.07	1,015.02	-170.26	1,875,388.19	577,597.84	36.153963	-107.570485
4,295.00	12.18	2.99	4,140.33	1,021.82	-170.54	1,875,395.00	577,597.53	36.153981	-107.570486
4,326.00	12.16	10.81	4,170.64	1,028.30	-169.76	1,875,401.48	577,598.30	36.153999	-107.570483
4,358.00	12.40	18.47	4,201.91	1,034.87	-168.04	1,875,408.05	577,600.00	36.154017	-107.570477
4,390.00	12.94	29.51	4,233.13	1,041.24	-165.19	1,875,414.44	577,602.84	36.154035	-107.570468
4,422.00	13.75	42.13	4,264.28	1,047.18	-160.87	1,875,420.39	577,607.14	36.154051	-107.570453
4,453.00	14.74	53.14	4,294.33	1,052.28	-155.24	1,875,425.50	577,612.75	36.154065	-107.570434
4,485.00	15.00	62.84	4,325.26	1,056.61	-148.30	1,875,429.85	577,619.68	36.154077	-107.570411

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 330H
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well N Escavada UT 330H
TVD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
MD Reference: GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
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
4,517.00	15.22	75.07	4,356.16	1,059.59	-140.55	1,875,432.85	577,627.42	36.154085	-107.570384
4,548.00	15.30	86.22	4,386.08	1,060.91	-132.54	1,875,434.19	577,635.43	36.154089	-107.570357
4,580.00	16.14	95.61	4,416.88	1,060.75	-123.90	1,875,434.05	577,644.07	36.154088	-107.570328
4,612.00	17.54	102.34	4,447.51	1,059.28	-114.76	1,875,432.61	577,653.22	36.154084	-107.570297
4,643.00	19.29	108.00	4,476.93	1,056.70	-105.32	1,875,430.06	577,662.66	36.154077	-107.570265
4,675.00	20.42	114.05	4,507.03	1,052.79	-95.20	1,875,426.18	577,672.79	36.154066	-107.570231
4,707.00	21.81	117.46	4,536.88	1,047.78	-84.82	1,875,421.19	577,683.18	36.154053	-107.570196
4,738.00	23.83	119.40	4,565.45	1,042.05	-74.26	1,875,415.49	577,693.76	36.154037	-107.570160
4,770.00	25.72	120.30	4,594.51	1,035.37	-62.63	1,875,408.84	577,705.41	36.154018	-107.570120
4,802.00	27.96	120.54	4,623.06	1,028.05	-50.17	1,875,401.56	577,717.89	36.153998	-107.570078
4,833.00	29.81	120.63	4,650.20	1,020.43	-37.28	1,875,393.97	577,730.80	36.153977	-107.570035
4,865.00	31.66	121.10	4,677.70	1,012.04	-23.25	1,875,385.62	577,744.86	36.153954	-107.569987
4,897.00	33.39	122.48	4,704.68	1,002.98	-8.62	1,875,376.59	577,759.50	36.153929	-107.569937
4,928.00	36.23	122.52	4,730.13	993.47	6.30	1,875,367.13	577,774.45	36.153903	-107.569887
4,960.00	40.41	122.55	4,755.23	982.80	23.02	1,875,356.50	577,791.20	36.153874	-107.569830
4,992.00	44.44	123.47	4,778.85	971.04	41.12	1,875,344.79	577,809.33	36.153842	-107.569769
5,023.00	47.57	125.18	4,800.38	958.46	59.53	1,875,332.26	577,827.78	36.153807	-107.569707
5,055.00	50.37	125.92	4,821.39	944.42	79.16	1,875,318.28	577,847.45	36.153769	-107.569640
5,087.00	55.09	126.23	4,840.76	929.43	99.74	1,875,303.34	577,868.07	36.153727	-107.569570
5,119.00	59.36	127.62	4,858.08	913.26	121.24	1,875,287.23	577,889.61	36.153683	-107.569498
5,150.00	63.49	128.33	4,872.90	896.51	142.69	1,875,270.54	577,911.11	36.153637	-107.569425
5,182.00	66.93	129.31	4,886.32	878.30	165.32	1,875,252.39	577,933.78	36.153587	-107.569348
5,214.00	70.50	130.59	4,897.93	859.15	188.17	1,875,233.31	577,956.69	36.153534	-107.569271
5,245.00	73.74	131.79	4,907.45	839.73	210.37	1,875,213.94	577,978.94	36.153481	-107.569196
5,277.00	76.29	132.50	4,915.72	818.98	233.28	1,875,193.26	578,001.91	36.153424	-107.569118
5,309.00	79.00	133.72	4,922.57	797.62	256.10	1,875,171.96	578,024.78	36.153365	-107.569041
5,340.00	81.84	134.65	4,927.73	776.32	278.02	1,875,150.72	578,046.76	36.153307	-107.568967
5,372.00	84.96	135.38	4,931.41	753.84	300.48	1,875,128.30	578,069.29	36.153245	-107.568890
5,404.00	87.88	136.31	4,933.40	730.93	322.73	1,875,105.45	578,091.59	36.153182	-107.568815
5,436.00	88.76	137.10	4,934.34	707.65	344.66	1,875,082.22	578,113.59	36.153118	-107.568741
5,467.00	89.73	137.33	4,934.75	684.90	365.72	1,875,059.53	578,134.71	36.153056	-107.568669
5,519.00	92.15	136.88	4,933.90	646.81	401.10	1,875,021.54	578,170.20	36.152951	-107.568550
Last Survey Curve									
5,566.00	92.63	136.59	4,931.94	612.62	433.29	1,874,987.43	578,202.47	36.152857	-107.568441
7" Casing @ 5566' MD, 1874988.01 N & 578170.01 E									
5,620.00	93.19	136.26	4,929.19	573.54	470.46	1,874,948.46	578,239.75	36.152750	-107.568315
First Survey Lateral									
5,640.24	92.80	136.33	4,928.14	558.94	484.42	1,874,933.89	578,253.75	36.152710	-107.568267
330H POE									
5,683.00	91.98	136.49	4,926.35	527.99	513.88	1,874,903.02	578,283.30	36.152625	-107.568168
5,778.00	90.20	136.04	4,924.55	459.36	579.54	1,874,834.58	578,349.14	36.152436	-107.567945
5,873.00	90.77	135.63	4,923.74	391.22	645.73	1,874,766.61	578,415.51	36.152249	-107.567721
5,968.00	89.09	135.79	4,923.86	323.22	712.07	1,874,698.79	578,482.03	36.152062	-107.567496
6,063.00	90.00	135.95	4,924.61	255.03	778.21	1,874,630.79	578,548.36	36.151875	-107.567272
6,158.00	89.43	133.64	4,925.08	188.10	845.62	1,874,564.04	578,615.95	36.151691	-107.567044
6,253.00	89.30	134.92	4,926.14	121.78	913.63	1,874,497.91	578,684.14	36.151509	-107.566814
6,348.00	89.63	134.42	4,927.02	55.00	981.19	1,874,431.31	578,751.88	36.151325	-107.566585
6,443.00	90.50	134.34	4,926.92	-11.44	1,049.08	1,874,365.05	578,819.96	36.151143	-107.566355
6,538.00	89.23	135.76	4,927.14	-78.67	1,116.20	1,874,298.00	578,887.25	36.150958	-107.566128
6,633.00	88.79	136.55	4,928.78	-147.18	1,181.99	1,874,229.67	578,953.24	36.150770	-107.565905
6,728.00	87.95	135.81	4,931.48	-215.69	1,247.74	1,874,161.34	579,019.17	36.150581	-107.565682
6,823.00	88.22	135.24	4,934.66	-283.44	1,314.26	1,874,093.77	579,085.87	36.150395	-107.565457
6,918.00	91.71	135.57	4,934.72	-351.08	1,380.95	1,874,026.31	579,152.75	36.150210	-107.565231
7,014.00	89.83	135.49	4,933.43	-419.58	1,448.19	1,873,957.99	579,220.17	36.150021	-107.565003

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 330H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
Well:	N Escavada UT 330H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	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	
7,107.00	90.27	134.65	4,933.35	-485.42	1,513.87	1,873,892.33	579,286.03	36.149840	-107.564781	
7,200.00	88.79	135.48	4,934.11	-551.25	1,579.55	1,873,826.68	579,351.89	36.149660	-107.564558	
7,294.00	89.50	134.62	4,935.51	-617.77	1,645.96	1,873,760.34	579,418.47	36.149477	-107.564333	
7,387.00	90.30	134.21	4,935.67	-682.85	1,712.38	1,873,695.44	579,485.08	36.149298	-107.564108	
7,480.00	90.13	136.70	4,935.32	-749.13	1,777.61	1,873,629.34	579,550.49	36.149116	-107.563887	
7,574.00	90.67	136.43	4,934.67	-817.39	1,842.24	1,873,561.26	579,615.30	36.148928	-107.563668	
7,667.00	88.89	136.61	4,935.02	-884.86	1,906.23	1,873,493.95	579,679.47	36.148743	-107.563452	
7,760.00	89.46	136.14	4,936.36	-952.18	1,970.39	1,873,426.82	579,743.81	36.148558	-107.563234	
7,853.00	89.97	135.67	4,936.83	-1,018.97	2,035.10	1,873,360.20	579,808.71	36.148375	-107.563015	
7,946.00	90.34	135.30	4,936.58	-1,085.28	2,100.30	1,873,294.06	579,874.09	36.148192	-107.562794	
8,040.00	89.20	134.83	4,936.95	-1,151.82	2,166.69	1,873,227.70	579,940.66	36.148010	-107.562570	
8,133.00	89.80	134.40	4,937.76	-1,217.14	2,232.89	1,873,162.57	580,007.03	36.147830	-107.562345	
8,226.00	90.90	134.05	4,937.20	-1,282.00	2,299.53	1,873,097.89	580,073.85	36.147652	-107.562120	
8,320.00	89.93	134.36	4,936.51	-1,347.54	2,366.91	1,873,032.53	580,141.41	36.147472	-107.561891	
8,413.00	88.42	135.79	4,937.85	-1,413.37	2,432.58	1,872,966.87	580,207.25	36.147291	-107.561669	
8,507.00	88.86	134.69	4,940.09	-1,480.10	2,498.75	1,872,900.33	580,273.60	36.147108	-107.561445	
8,600.00	90.07	134.62	4,940.95	-1,545.46	2,564.90	1,872,835.15	580,339.93	36.146928	-107.561221	
8,693.00	90.07	136.34	4,940.84	-1,611.77	2,630.11	1,872,769.02	580,405.32	36.146746	-107.561000	
8,787.00	89.60	136.80	4,941.11	-1,680.03	2,694.73	1,872,700.93	580,470.12	36.146558	-107.560781	
8,880.00	89.63	137.35	4,941.74	-1,748.13	2,758.06	1,872,633.00	580,533.64	36.146371	-107.560567	
8,973.00	90.60	137.32	4,941.55	-1,816.51	2,821.09	1,872,564.79	580,596.85	36.146183	-107.560353	
9,067.00	88.69	136.67	4,942.13	-1,885.25	2,885.20	1,872,496.23	580,661.15	36.145995	-107.560136	
9,160.00	89.63	136.27	4,943.49	-1,952.67	2,949.24	1,872,428.98	580,725.38	36.145809	-107.559919	
9,254.00	88.89	136.35	4,944.71	-2,020.63	3,014.17	1,872,361.20	580,790.49	36.145623	-107.559699	
9,347.00	89.77	136.11	4,945.80	-2,087.78	3,078.50	1,872,294.22	580,855.00	36.145438	-107.559482	
9,440.00	90.44	135.49	4,945.63	-2,154.45	3,143.33	1,872,227.72	580,920.01	36.145255	-107.559262	
9,533.00	89.36	135.32	4,945.79	-2,220.68	3,208.63	1,872,161.68	580,985.48	36.145073	-107.559041	
9,629.00	90.37	135.01	4,946.01	-2,288.75	3,276.31	1,872,093.79	581,053.35	36.144886	-107.558812	
9,724.00	90.81	134.80	4,945.04	-2,355.81	3,343.59	1,872,026.91	581,120.82	36.144702	-107.558584	
9,819.00	89.40	134.86	4,944.86	-2,422.79	3,410.97	1,871,960.12	581,188.37	36.144518	-107.558356	
9,914.00	90.13	134.05	4,945.25	-2,489.32	3,478.78	1,871,893.77	581,256.36	36.144335	-107.558126	
10,009.00	88.76	134.07	4,946.17	-2,555.38	3,547.04	1,871,827.90	581,324.80	36.144153	-107.557895	
10,104.00	89.73	133.39	4,947.42	-2,621.04	3,615.68	1,871,762.42	581,393.62	36.143973	-107.557662	
10,199.00	89.13	134.79	4,948.37	-2,687.14	3,683.91	1,871,696.51	581,462.03	36.143791	-107.557431	
10,294.00	90.37	134.70	4,948.78	-2,754.01	3,751.38	1,871,629.82	581,529.68	36.143608	-107.557203	
10,389.00	89.03	135.08	4,949.28	-2,821.05	3,818.68	1,871,562.96	581,597.17	36.143423	-107.556975	
10,484.00	90.57	134.95	4,949.61	-2,888.24	3,885.83	1,871,495.95	581,664.50	36.143239	-107.556748	
10,579.00	89.26	135.39	4,949.75	-2,955.62	3,952.81	1,871,428.76	581,731.66	36.143054	-107.556521	
10,674.00	91.24	135.54	4,949.34	-3,023.33	4,019.43	1,871,361.23	581,798.47	36.142868	-107.556295	
10,769.00	90.34	136.20	4,948.03	-3,091.51	4,085.57	1,871,293.23	581,864.79	36.142680	-107.556071	
10,864.00	91.85	135.95	4,946.21	-3,159.92	4,151.46	1,871,225.00	581,930.87	36.142492	-107.555848	
10,959.00	89.46	135.25	4,945.13	-3,227.78	4,217.92	1,871,157.51	581,997.51	36.142306	-107.555623	
11,054.00	90.91	134.90	4,944.82	-3,295.04	4,285.01	1,871,090.23	582,064.78	36.142121	-107.555396	
11,150.00	88.26	134.30	4,945.52	-3,362.44	4,353.35	1,871,023.02	582,133.30	36.141936	-107.555164	
11,245.00	89.70	133.59	4,947.21	-3,428.36	4,421.74	1,870,957.29	582,201.87	36.141755	-107.554933	
11,340.00	90.50	132.22	4,947.04	-3,493.03	4,491.32	1,870,892.81	582,271.63	36.141577	-107.554697	
11,435.00	89.16	134.67	4,947.32	-3,558.35	4,560.29	1,870,827.68	582,340.77	36.141398	-107.554464	
11,530.00	90.70	134.54	4,947.44	-3,625.06	4,627.92	1,870,761.15	582,408.59	36.141214	-107.554235	
11,625.00	88.36	135.74	4,948.22	-3,692.39	4,694.93	1,870,694.00	582,475.77	36.141029	-107.554008	
11,720.00	90.20	135.43	4,949.41	-3,760.24	4,761.40	1,870,626.33	582,542.43	36.140843	-107.553783	
11,815.00	88.05	136.25	4,950.86	-3,828.38	4,827.57	1,870,558.37	582,608.79	36.140656	-107.553559	
11,910.00	90.81	136.95	4,951.81	-3,897.39	4,892.84	1,870,489.54	582,674.24	36.140466	-107.553338	
12,005.00	93.30	137.59	4,948.40	-3,967.13	4,957.25	1,870,419.98	582,738.84	36.140275	-107.553119	
12,011.00	93.45	137.58	4,948.05	-3,971.55	4,961.29	1,870,415.57	582,742.90	36.140262	-107.553106	
RSI@ 12011' MD, 1870416.14 N & 582742.71 E										

Scientific Drilling Int.
Survey Report - Geographic

Company:	WPX Energy	Local Co-ordinate Reference:	Well N Escavada UT 330H
Project:	Sandoval County, NM 3003 West	TVD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
Site:	N Escavada UT 315 Pad	MD Reference:	GL 6860 + KB 21 = @ 6881.00usft (Cyclone 21)
Well:	N Escavada UT 330H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	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
12,029.00	93.89	137.56	4,946.90	-3,984.81	4,973.41	1,870,402.34	582,755.05	36.140226	-107.553065
Last Survey Lateral									
12,088.00	93.89	137.56	4,942.89	-4,028.25	5,013.13	1,870,359.01	582,794.89	36.140107	-107.552930
BP@ 12088' MD, 1870359.59 N & 582794.71 E - 330H BHL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
447.00	446.99	0.54	0.78	First Survey Int.
4,200.00	4,047.78	1,000.95	-166.54	First Survey Curve
5,519.00	4,933.90	646.81	401.10	Last Survey Curve
5,566.00	4,931.94	612.62	433.29	7"Casing@ 5566' MD, 1874988.01 N & 578170.01 E
5,620.00	4,929.19	573.54	470.46	First Survey Lateral
12,011.00	4,948.05	-3,971.55	4,961.29	RSI@ 12011' MD, 1870416.14 N & 582742.71 E
12,029.00	4,946.90	-3,984.81	4,973.41	Last Survey Lateral
12,088.00	4,942.89	-4,028.25	5,013.13	BP@ 12088' MD, 1870359.59 N & 582794.71 E

Checked By: _____ Approved By: _____ Date: _____