

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., 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

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Marshall & Winston, Inc. P.O. Box 50880, Midland, TX 79710-0880		² OGRID Number 14187
		³ Reason for Filing Code/ Effective Date RT / 28,000 (month)
⁴ API Number 30-0 25-47046	⁵ Pool Name WC-25 G-06 S213326D; Bone Spring	⁶ Pool Code 97929
⁷ Property Code 327368	⁸ Property Name Loco Dinero 36 2L State Com	⁹ Well Number 4H

II. 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
D	36	21S	33E		160	North	360	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	21S	33E		60	South	326	West	Lea

¹² Lse Code S	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
024650	Targa Midstream Services, L.P. 6 Desta Drive, Suite 3300 Midland, Texas 79705	G
329971	Oryx Delaware Oil Transport LLC 400 N. Big Spring St., Suite 500 Midland, Texas 79705	O

IV. Well Completion Data

²¹ Spud Date 2/23/21	²² Ready Date 7/28/21	²³ TD 15843'	²⁴ PBD 15817'	²⁵ Perforations 15803-11082'	²⁶ DHC, MC
²⁷ Hole Size 17 1/2"	²⁸ Casing & Tubing Size 13 3/8"	²⁹ Depth Set 1807'	³⁰ Sacks Cement 1040 sx C		
12 1/4"	9 5/8"	5628'	1800 sx C		
8 3/4"	5 1/2"	15842'	2300 sx C		
	2 7/8"	10460'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 

Printed name:
Todd Passmore

Title:
Operations Manager

E-mail Address:
tpassmore@mar-win.com

Date:
07/28/21

Phone:
432-684-6373

OIL CONSERVATION DIVISION

Approved by: KURT SIMMONS

Title:
NMOCD, Santa Fe

Approval Date:
08/02/2021

RT C-104 Expires 10/28/2021

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 398-6161 Fax: (505) 398-0720

DISTRICT II

811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1883 Fax: (505) 748-8720

DISTRICT III

1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-47046	Pool Code 97929	Pool Name WC-25 G-06 S213326D; Bone Spring
Property Code 327368	Property Name LOCO DINERO 36 2L STATE COM	Well Number 4H
OGRID No. 14187	Operator Name MARSHALL & WINSTON, INC.	Elevation 3656.2'

Surface Location

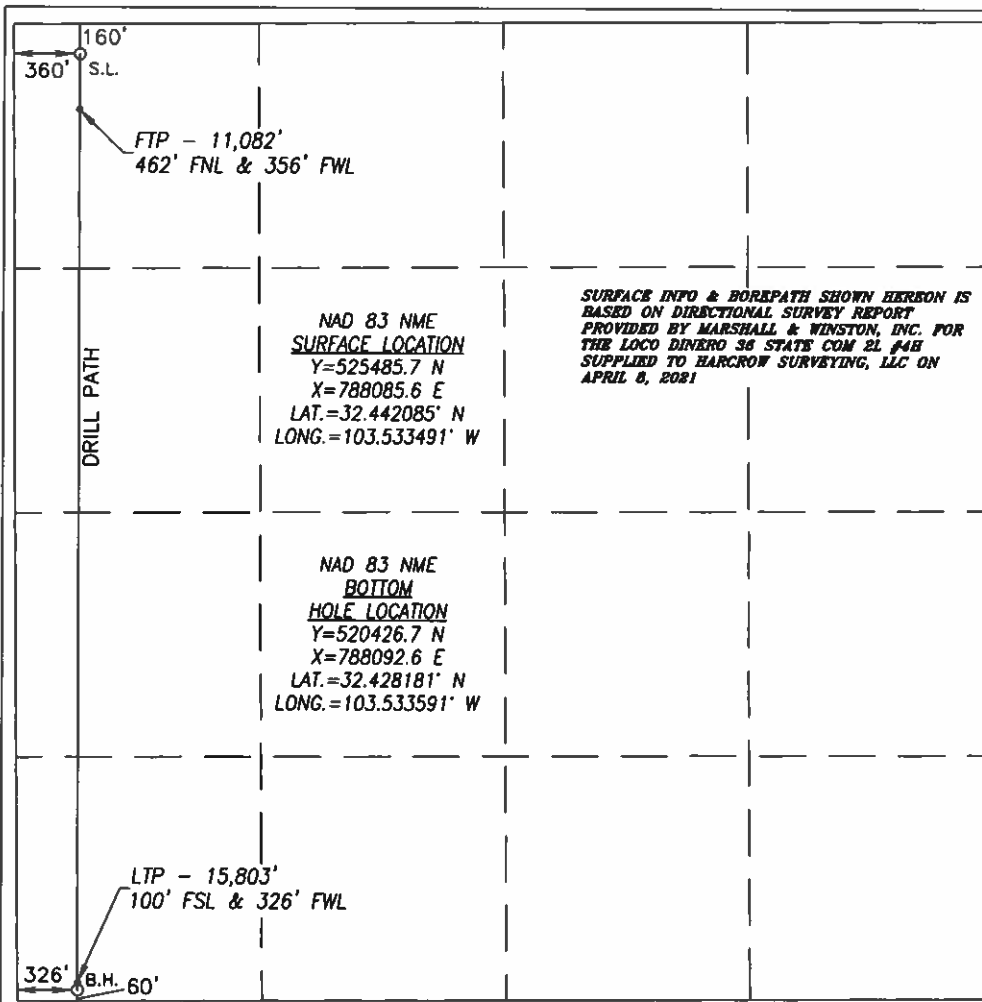
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	21-S	33-E		160	NORTH	360	WEST	LEA

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	36	21-S	33-E		60	SOUTH	326	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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



OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

[Signature] 07/28/21
Signature Date

Todd Passmore

Printed Name

tpassmore@mar-win.com

E-mail Address

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.

FEB. 26, 2020/MAR. 26, 2021

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor

[Signature] 4/12/21
Certificate No. CHAD HARCROW 17777
W.O. #21-374 DRAWN BY: WN



Marshall & Winston, Inc.

Loco Dinero 36 State Com 2L #4H
Lea County, NM (NAD83 NME)

Job No: WT-21-021
Rig: Precision 599

Lateral 112



MD 21-77-21 1202/2/8 - drilling of passive

SECTION DETAILS									
Sec	MD	Inc	Aza	TVD	+N/-S	+E/-W	Dlog	Trace	Vsect Target
1	5603.00	0.47	329.64	5604.78	10.60	-8.44	0.000	0.00	-10.67
2	5651.87	0.00	0.00	5651.65	10.77	-8.54	1.000	180.00	-10.84
3	10493.22	0.00	0.00	10493.00	10.77	-8.54	0.000	0.00	-10.84
4	11241.21	89.76	180.85	10970.46	-464.64	-15.59	12.000	180.85	464.50
5	11306.76	89.76	179.54	10970.74	-530.18	-15.82	2.000	530.04	530.04
6	15833.62	89.76	179.54	10990.00	-503.86	20.61	0.000	0.00	503.86
PBHL - Loco Dinero 36 State Com 2L #4H - L112									

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP - Loco Dinero 36 State Com 2L #4H - L112	10970.00	-302.16	-17.60	525183.54	788068.00	32° 26' 28.519" N	103° 32' 0.768" W
LTP - Loco Dinero 36 State Com 2L #4H - L112	10989.00	-5018.86	20.29	520466.84	788105.89	32° 25' 41.846" N	103° 32' 0.768" W
PBHL - Loco Dinero 36 State Com 2L #4H - L112	10990.00	-5038.86	20.61	520426.84	788106.21	32° 25' 41.450" N	103° 32' 0.768" W

Actual FTP
11081.70' MD
10946.83' TVD
Actual LTP
15803.00' MD
10984.65' TVD
Actual BHL
59.95' PSL
326.43' FWL

PROJECT DETAILS Lea County, NM (NAD83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

SITE DETAILS Loco Dinero 36 State Com 2L #4H

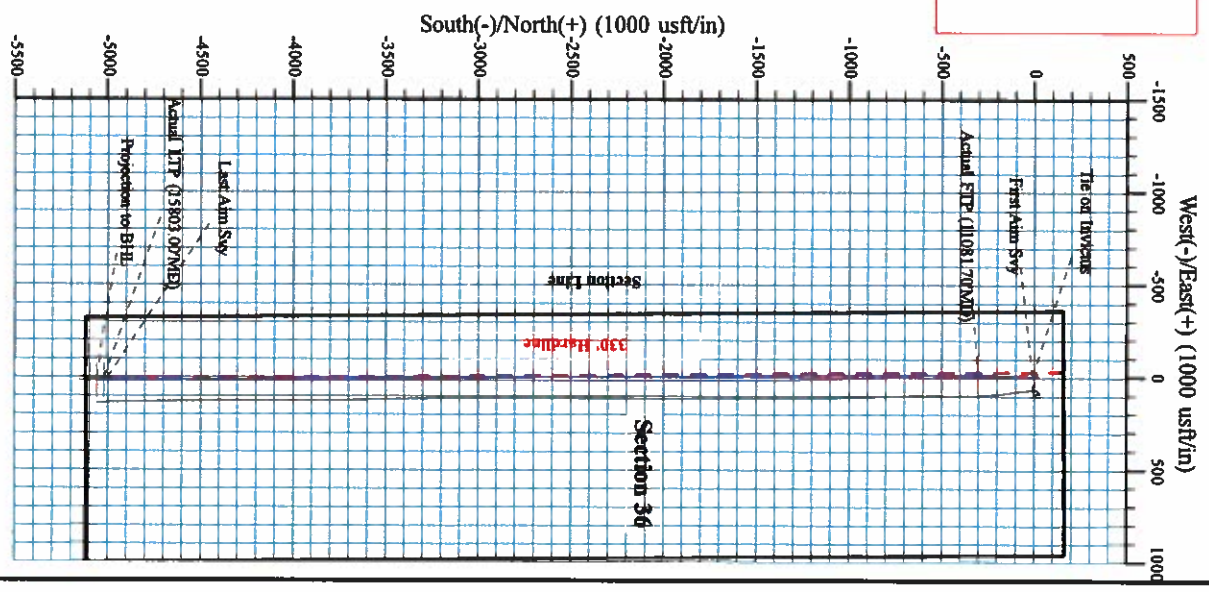
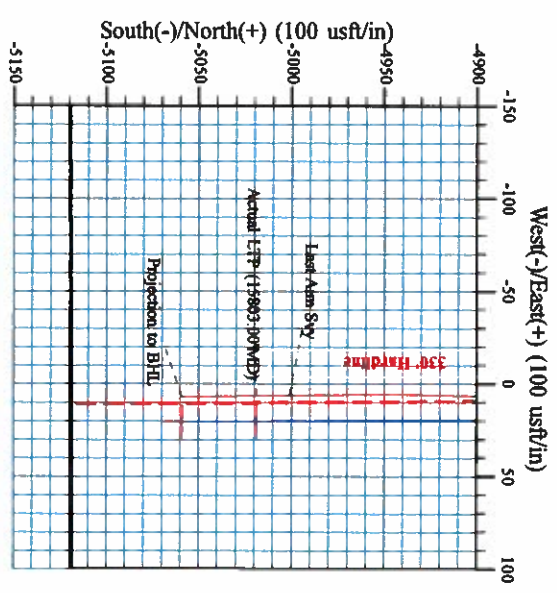
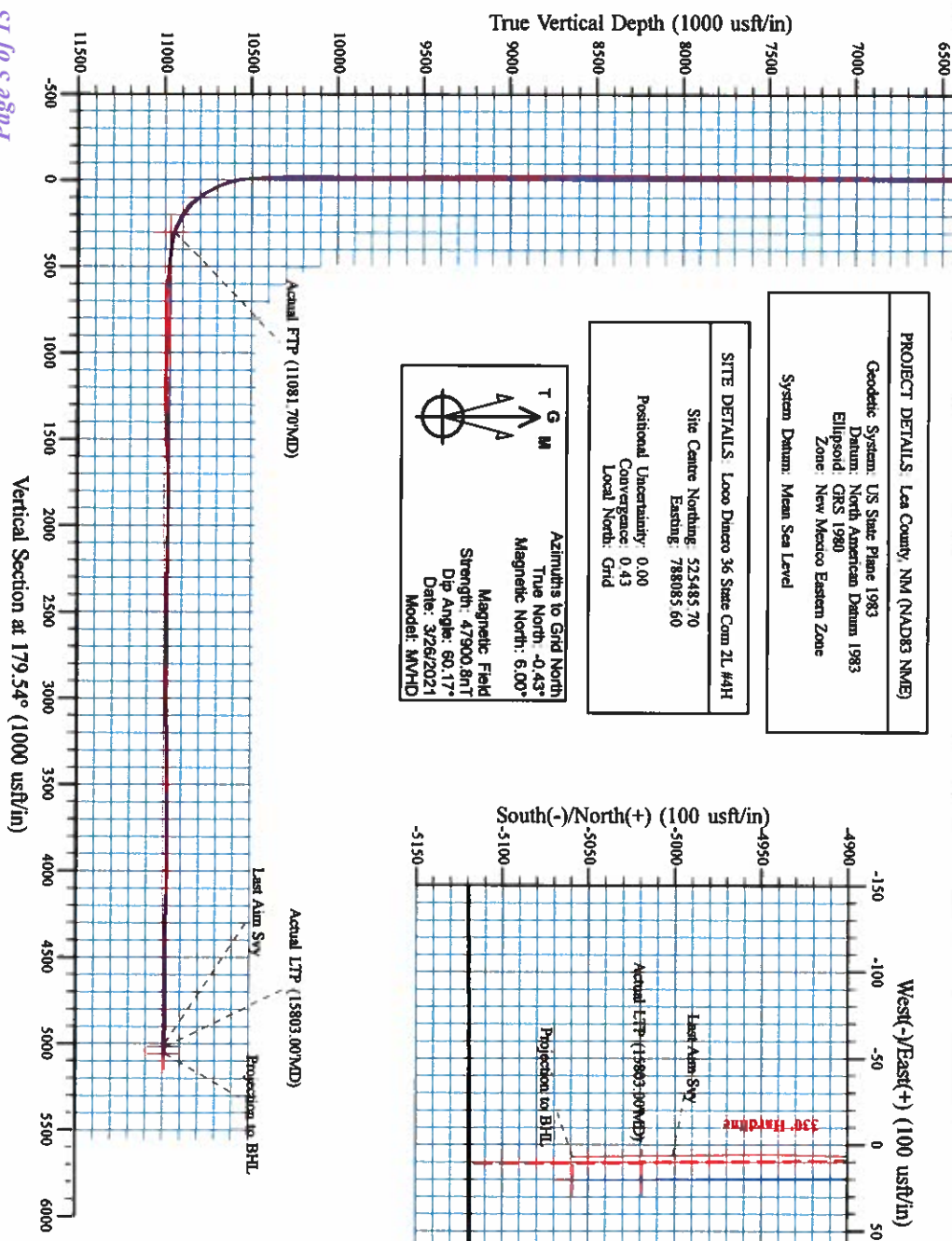
Site Centre Northing: 525485.70
Easting: 788085.60

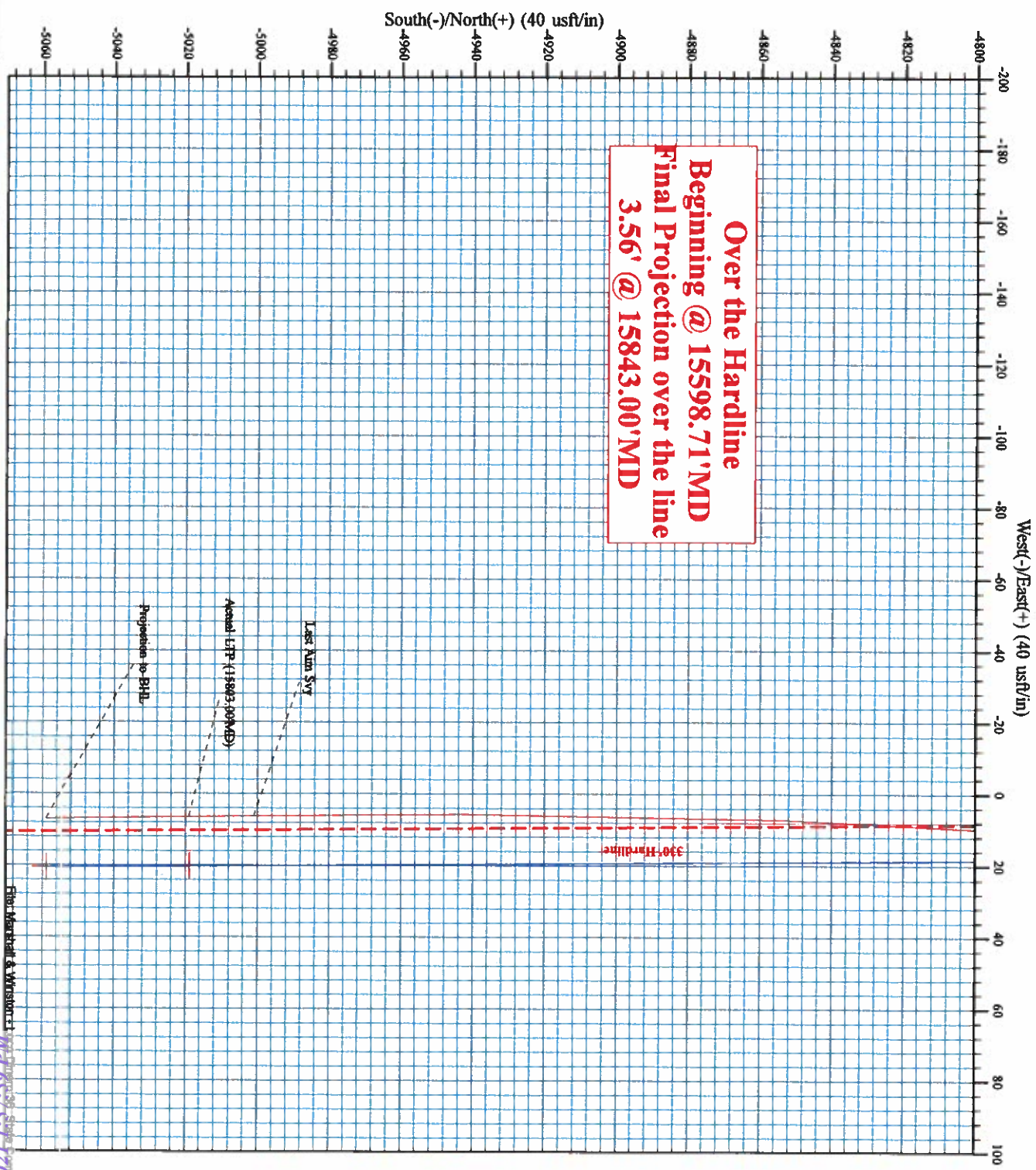
Positional Uncertainty: 0.00
Convergence: 0.43
Local North: Grid

Magnetic Field

Strength: 47900.8nT
Dip Angle: 80.17°
Date: 3/26/2021
Model: IAVD

Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.00°





Survey Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 36 St Com 2L #4H - Office
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Site:	Loco Dinero 36 State Com 2L #4H	MD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Well:	36 St Com 2L #4H - Office	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Project	Lea County, NM (NAD83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Loco Dinero 36 State Com 2L #4H			
Site Position:		Northing:	525,485.70 usft	Latitude:	32° 26' 31.508 N
From:	Map	Easting:	788,085.60 usft	Longitude:	103° 32' 0.566 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	36 St Com 2L #4H - Office					
Well Position	+N/-S	0.00 usft	Northing:	525,485.70 usft	Latitude:	32° 26' 31.508 N
	+E/-W	0.00 usft	Easting:	788,085.60 usft	Longitude:	103° 32' 0.566 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,656.20 usft

Wellbore	Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	2/26/2021	6.43	60.17	47,909.034

Design	Surveys				
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	179.54	

Survey Program	Date 4/7/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
440.00	1,762.00	Invictus Svys (Drilling)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous
1,866.00	15,843.00	Aim MWD Svys (Drilling)	MWD+HDGM	OWSG MWD + HDGM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,762.00	0.40	194.15	1,761.96	-7.61	-7.00	7.56	0.000	0.000	0.000	
Tie on Invictus										
1,866.00	0.34	237.94	1,865.96	-8.13	-7.35	8.07	0.271	-0.058	42.106	
First Aim Svy										
1,955.00	0.24	186.17	1,954.96	-8.46	-7.59	8.39	0.302	-0.112	-58.168	
2,045.00	0.20	132.65	2,044.95	-8.75	-7.50	8.69	0.224	-0.044	-59.467	
2,135.00	0.30	164.99	2,134.95	-9.08	-7.32	9.02	0.188	0.111	35.933	
2,224.00	0.25	111.26	2,223.95	-9.38	-7.08	9.32	0.284	-0.056	-60.371	
2,313.00	0.25	114.89	2,312.95	-9.53	-6.72	9.48	0.018	0.000	4.079	

Survey Report

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Well:	36 St Com 2L #4H - Office	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)
2,402.00	0.07	127.42	2,401.95	-9.65	-6.50	9.59	0.205	-0.202	14.079
2,492.00	0.07	29.37	2,491.95	-9.63	-6.43	9.58	0.117	0.000	-108.944
2,581.00	0.16	10.98	2,580.95	-9.46	-6.38	9.41	0.108	0.101	-20.663
2,670.00	0.28	13.61	2,669.95	-9.13	-6.30	9.08	0.135	0.135	2.955
2,760.00	0.26	13.56	2,759.95	-8.72	-6.21	8.67	0.022	-0.022	-0.056
2,849.00	0.26	12.05	2,848.95	-8.32	-6.12	8.27	0.008	0.000	-1.697
2,939.00	0.24	36.93	2,938.95	-7.97	-5.96	7.92	0.122	-0.022	27.644
3,028.00	0.35	63.15	3,027.95	-7.70	-5.61	7.65	0.193	0.124	29.461
3,117.00	0.68	42.87	3,116.94	-7.19	-5.00	7.15	0.418	0.371	-22.786
3,207.00	0.95	32.99	3,206.93	-6.17	-4.23	6.14	0.337	0.300	-10.978
3,297.00	1.13	38.30	3,296.92	-4.85	-3.28	4.82	0.227	0.200	5.900
3,386.00	0.99	40.85	3,385.90	-3.58	-2.23	3.56	0.166	-0.157	2.865
3,476.00	0.93	41.82	3,475.89	-2.45	-1.24	2.44	0.069	-0.067	1.078
3,565.00	1.05	48.76	3,564.88	-1.37	-0.14	1.37	0.190	0.135	7.798
3,655.00	0.89	55.60	3,654.87	-0.43	1.06	0.44	0.219	-0.178	7.600
3,744.00	0.46	305.16	3,743.86	0.16	1.33	-0.15	1.276	-0.483	-124.090
3,833.00	1.17	282.10	3,832.85	0.56	0.15	-0.56	0.863	0.798	-25.910
3,923.00	0.93	293.95	3,922.84	1.05	-1.41	-1.06	0.358	-0.267	13.167
4,012.00	0.58	311.12	4,011.83	1.64	-2.41	-1.66	0.464	-0.393	19.292
4,102.00	0.56	300.87	4,101.82	2.16	-3.13	-2.19	0.115	-0.022	-11.389
4,192.00	0.60	297.56	4,191.82	2.61	-3.93	-2.64	0.058	0.044	-3.678
4,281.00	0.27	282.26	4,280.82	2.87	-4.55	-2.90	0.390	-0.371	-17.191
4,371.00	0.34	300.28	4,370.82	3.05	-4.98	-3.09	0.131	0.078	20.022
4,460.00	0.42	304.81	4,459.81	3.37	-5.48	-3.41	0.096	0.090	5.090
4,549.00	0.31	308.61	4,548.81	3.70	-5.94	-3.75	0.126	-0.124	4.270
4,639.00	0.43	322.18	4,638.81	4.12	-6.33	-4.17	0.164	0.133	15.078
4,728.00	0.46	344.26	4,727.81	4.73	-6.63	-4.78	0.194	0.034	24.809
4,818.00	0.46	339.49	4,817.80	5.41	-6.86	-5.47	0.043	0.000	-5.300
4,907.00	0.31	359.42	4,906.80	5.99	-6.99	-6.05	0.224	-0.169	22.393
4,997.00	0.30	0.82	4,996.80	6.47	-6.99	-6.52	0.014	-0.011	1.556
5,086.00	0.37	348.15	5,085.80	6.98	-7.04	-7.04	0.114	0.079	-14.236
5,176.00	0.38	357.21	5,175.80	7.57	-7.12	-7.62	0.067	0.011	10.067
5,265.00	0.37	337.42	5,264.80	8.13	-7.24	-8.18	0.145	-0.011	-22.236
5,355.00	0.42	337.15	5,354.79	8.70	-7.48	-8.76	0.056	0.056	-0.300
5,444.00	0.49	337.15	5,443.79	9.35	-7.75	-9.41	0.079	0.079	0.000
5,533.00	0.54	328.87	5,532.79	10.06	-8.12	-10.12	0.101	0.056	-9.303
5,715.00	0.36	331.41	5,714.78	11.30	-8.84	-11.37	0.099	-0.099	1.396
5,804.00	0.34	338.02	5,803.78	11.79	-9.07	-11.86	0.051	-0.022	7.427
5,894.00	0.34	320.65	5,893.78	12.24	-9.34	-12.31	0.114	0.000	-19.300
5,983.00	0.36	315.44	5,982.78	12.64	-9.70	-12.72	0.042	0.022	-5.854
6,073.00	0.37	300.86	6,072.78	12.99	-10.15	-13.07	0.104	0.011	-16.200
6,162.00	0.34	294.51	6,161.77	13.25	-10.64	-13.34	0.056	-0.034	-7.135
6,251.00	0.37	286.17	6,250.77	13.44	-11.15	-13.53	0.067	0.034	-9.371

Survey Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 36 St Com 2L #4H - Office
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Site:	Loco Dinero 36 State Com 2L #4H	MD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Well:	36 St Com 2L #4H - Office	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,341.00	0.50	284.02	6,340.77	13.62	-11.81	-13.71	0.146	0.144	-2.389
6,430.00	0.57	284.48	6,429.77	13.82	-12.62	-13.92	0.079	0.079	0.517
6,520.00	0.60	285.12	6,519.76	14.06	-13.51	-14.16	0.034	0.033	0.711
6,609.00	0.59	285.27	6,608.76	14.30	-14.40	-14.41	0.011	-0.011	0.169
6,699.00	0.56	293.25	6,698.75	14.59	-15.25	-14.72	0.095	-0.033	8.867
6,789.00	0.50	302.84	6,788.75	14.98	-15.98	-15.11	0.119	-0.067	10.656
6,878.00	0.63	49.70	6,877.75	15.51	-15.94	-15.63	1.023	0.146	120.067
6,968.00	0.92	60.13	6,967.74	16.19	-14.93	-16.31	0.357	0.322	11.589
7,057.00	0.98	60.73	7,056.72	16.92	-13.65	-17.02	0.068	0.067	0.674
7,146.00	0.89	52.54	7,145.71	17.71	-12.44	-17.81	0.181	-0.101	-9.202
7,236.00	0.90	32.37	7,235.70	18.73	-11.50	-18.82	0.348	0.011	-22.411
7,325.00	0.85	26.93	7,324.69	19.91	-10.83	-19.99	0.109	-0.056	-6.112
7,415.00	0.71	29.23	7,414.68	20.99	-10.26	-21.07	0.159	-0.156	2.556
7,504.00	0.59	23.48	7,503.68	21.89	-9.80	-21.97	0.153	-0.135	-6.461
7,594.00	0.58	37.98	7,593.67	22.68	-9.34	-22.75	0.164	-0.011	16.111
7,683.00	0.58	53.68	7,682.67	23.30	-8.70	-23.37	0.178	0.000	17.640
7,773.00	0.61	63.98	7,772.66	23.78	-7.90	-23.84	0.123	0.033	11.444
7,862.00	0.60	61.74	7,861.66	24.21	-7.06	-24.26	0.029	-0.011	-2.517
7,952.00	0.61	58.11	7,951.65	24.68	-6.24	-24.73	0.044	0.011	-4.033
8,042.00	0.56	47.95	8,041.65	25.23	-5.51	-25.27	0.128	-0.056	-11.289
8,131.00	0.69	57.43	8,130.64	25.81	-4.73	-25.85	0.186	0.146	10.652
8,221.00	0.66	73.15	8,220.64	26.25	-3.78	-26.28	0.208	-0.033	17.467
8,311.00	0.47	177.59	8,310.63	26.03	-3.27	-26.06	1.001	-0.211	116.044
8,400.00	0.58	202.56	8,399.63	25.25	-3.43	-25.28	0.282	0.124	28.056
8,490.00	0.66	214.78	8,489.63	24.41	-3.90	-24.44	0.171	0.089	13.578
8,579.00	0.75	214.93	8,578.62	23.51	-4.52	-23.54	0.101	0.101	0.169
8,669.00	0.89	218.19	8,668.61	22.48	-5.29	-22.52	0.164	0.156	3.622
8,758.00	0.94	225.37	8,757.60	21.42	-6.24	-21.47	0.140	0.056	8.067
8,848.00	0.39	274.87	8,847.59	20.93	-7.07	-20.98	0.831	-0.611	55.000
8,937.00	0.40	289.69	8,936.59	21.06	-7.67	-21.12	0.115	0.011	16.652
9,026.00	0.67	242.55	9,025.59	20.92	-8.42	-20.99	0.555	0.303	-52.966
9,116.00	0.90	230.48	9,115.58	20.23	-9.43	-20.30	0.313	0.256	-13.411
9,205.00	1.16	231.51	9,204.56	19.22	-10.68	-19.31	0.293	0.292	1.157
9,295.00	0.75	278.63	9,294.55	18.75	-11.97	-18.84	0.945	-0.456	52.355
9,384.00	0.41	277.60	9,383.55	18.87	-12.86	-18.98	0.382	-0.382	-1.157
9,474.00	0.76	237.16	9,473.54	18.59	-13.68	-18.70	0.579	0.389	-44.933
9,563.00	1.29	229.83	9,562.53	17.63	-14.95	-17.75	0.612	0.596	-8.236
9,653.00	1.31	232.43	9,652.51	16.35	-16.53	-16.48	0.069	0.022	2.889
9,742.00	0.91	261.04	9,741.49	15.62	-18.04	-15.76	0.755	-0.449	32.146
9,832.00	0.62	343.85	9,831.48	15.97	-18.88	-16.12	1.150	-0.322	92.011
9,921.00	0.81	324.92	9,920.48	16.95	-19.38	-17.11	0.338	0.213	-21.270
10,011.00	1.39	294.18	10,010.46	17.92	-20.74	-18.08	0.898	0.644	-34.155
10,100.00	1.14	264.06	10,099.44	18.27	-22.60	-18.45	0.787	-0.281	-33.843
10,190.00	1.35	248.44	10,189.42	17.79	-24.48	-17.98	0.441	0.233	-17.356

Survey Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 36 St Com 2L #4H - Office
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Site:	Loco Dinero 36 State Com 2L #4H	MD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Well:	36 St Com 2L #4H - Office	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)
10,241.00	1.40	259.34	10,240.40	17.45	-25.65	-17.66	0.521	0.098	21.373
10,330.00	1.22	167.78	10,329.39	16.32	-26.52	-16.54	2.114	-0.202	-102.876
10,420.00	1.52	181.41	10,419.36	14.19	-26.35	-14.40	0.490	0.333	15.144
10,465.00	2.94	164.60	10,464.33	12.48	-26.05	-12.69	3.441	3.156	-37.355
10,509.00	5.62	163.13	10,508.20	9.33	-25.13	-9.54	6.095	6.091	-3.341
10,554.00	10.23	166.80	10,552.76	3.33	-23.58	-3.52	10.301	10.244	8.156
10,599.00	13.46	177.56	10,598.80	-5.80	-22.44	5.61	8.666	7.178	23.911
10,643.00	17.64	177.64	10,639.18	-17.58	-21.95	17.40	9.500	9.500	0.182
10,688.00	22.30	171.81	10,681.47	-32.85	-20.45	32.69	11.249	10.356	-12.956
10,733.00	26.53	169.98	10,722.44	-51.21	-17.48	51.06	9.548	9.400	-4.067
10,778.00	30.23	172.65	10,762.02	-72.35	-14.28	72.23	8.691	8.222	5.933
10,822.00	33.15	172.63	10,799.46	-95.27	-11.32	95.17	6.636	6.636	-0.045
10,866.00	39.59	175.19	10,834.87	-121.20	-8.60	121.13	15.035	14.636	5.818
10,911.00	48.97	176.56	10,867.05	-152.50	-6.38	152.44	20.951	20.844	3.044
10,956.00	57.33	177.69	10,894.02	-188.43	-4.59	188.39	18.686	18.578	2.511
11,001.00	62.37	178.17	10,916.61	-227.31	-3.19	227.27	11.238	11.200	1.067
11,046.00	68.68	178.53	10,935.25	-268.23	-2.01	268.20	14.041	14.022	0.800
11,081.70	73.45	178.92	10,946.83	-301.98	-1.26	301.96	13.395	13.355	1.096
Actual FTP (11081.70'MD)									
11,091.00	74.69	179.02	10,949.38	-310.92	-1.10	310.90	13.395	13.357	1.060
11,117.00	79.19	180.01	10,955.25	-336.24	-0.89	336.22	17.700	17.308	3.808
11,161.00	81.80	180.44	10,962.52	-379.63	-1.06	379.61	6.010	5.932	0.977
11,206.00	82.62	180.54	10,968.62	-424.21	-1.44	424.19	1.835	1.822	0.222
11,251.00	82.93	179.90	10,974.28	-468.85	-1.62	468.82	1.570	0.689	-1.422
11,296.00	84.36	179.66	10,979.26	-513.57	-1.44	513.55	3.222	3.178	-0.533
11,341.00	85.32	179.73	10,983.31	-558.39	-1.20	558.36	2.139	2.133	0.156
11,385.00	87.03	179.94	10,986.24	-602.29	-1.08	602.26	3.915	3.886	0.477
11,430.00	88.62	179.79	10,987.95	-647.26	-0.97	647.23	3.549	3.533	-0.333
11,475.00	89.91	179.71	10,988.53	-692.25	-0.78	692.22	2.872	2.867	-0.178
11,520.00	89.77	179.57	10,988.65	-737.25	-0.49	737.22	0.440	-0.311	-0.311
11,609.00	89.88	179.40	10,988.92	-826.25	0.31	826.22	0.228	0.124	-0.191
11,699.00	89.63	178.13	10,989.31	-916.22	2.25	916.21	1.438	-0.278	-1.411
11,789.00	88.77	177.94	10,990.56	-1,006.16	5.33	1,006.17	0.979	-0.956	-0.211
11,878.00	88.82	177.99	10,992.44	-1,095.09	8.49	1,095.12	0.079	0.056	0.056
11,968.00	89.77	178.47	10,993.54	-1,185.03	11.27	1,185.09	1.183	1.056	0.533
12,057.00	92.20	178.61	10,992.01	-1,273.99	13.54	1,274.05	2.735	2.730	0.157
12,147.00	93.13	178.12	10,987.83	-1,363.85	16.10	1,363.94	1.168	1.033	-0.544
12,237.00	91.59	179.18	10,984.12	-1,453.75	18.22	1,453.84	2.077	-1.711	1.178
12,326.00	90.33	180.68	10,982.63	-1,542.73	18.33	1,542.83	2.201	-1.416	1.685
12,415.00	90.56	180.35	10,981.94	-1,631.72	17.53	1,631.81	0.452	0.258	-0.371
12,505.00	90.95	179.23	10,980.75	-1,721.71	17.86	1,721.80	1.318	0.433	-1.244
12,594.00	90.31	179.90	10,979.78	-1,810.70	18.54	1,810.79	1.041	-0.719	0.753
12,684.00	89.44	181.22	10,979.97	-1,900.70	17.66	1,900.78	1.757	-0.967	1.467

Survey Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 36 St Com 2L #4H - Office
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Site:	Loco Dinero 36 State Com 2L #4H	MD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Well:	36 St Com 2L #4H - Office	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,773.00	89.72	180.79	10,980.62	-1,989.68	16.09	1,989.74	0.577	0.315	-0.483
12,862.00	89.24	178.94	10,981.43	-2,078.67	16.30	2,078.73	2.147	-0.539	-2.079
12,952.00	89.52	178.68	10,982.41	-2,168.65	18.17	2,168.72	0.425	0.311	-0.289
13,041.00	89.36	179.32	10,983.28	-2,257.63	19.73	2,257.71	0.741	-0.180	0.719
13,131.00	89.55	181.16	10,984.13	-2,347.62	19.35	2,347.70	2.055	0.211	2.044
13,220.00	90.50	180.82	10,984.09	-2,436.60	17.81	2,436.67	1.134	1.067	-0.382
13,310.00	90.70	179.61	10,983.15	-2,526.60	17.47	2,526.66	1.363	0.222	-1.344
13,399.00	89.47	180.24	10,983.02	-2,615.60	17.59	2,615.65	1.553	-1.382	0.708
13,489.00	89.64	179.48	10,983.72	-2,705.59	17.81	2,705.65	0.865	0.189	-0.844
13,578.00	88.83	179.37	10,984.91	-2,794.58	18.70	2,794.64	0.918	-0.910	-0.124
13,668.00	89.11	180.32	10,986.52	-2,884.56	18.95	2,884.62	1.100	0.311	1.056
13,758.00	90.59	180.85	10,986.76	-2,974.55	18.03	2,974.60	1.747	1.644	0.589
13,847.00	91.45	179.96	10,985.18	-3,063.54	17.40	3,063.58	1.390	0.966	-1.000
13,937.00	90.45	180.20	10,983.68	-3,153.52	17.27	3,153.56	1.143	-1.111	0.267
14,026.00	92.01	179.55	10,981.77	-3,242.50	17.47	3,242.53	1.899	1.753	-0.730
14,116.00	91.37	179.70	10,979.12	-3,332.46	18.06	3,332.49	0.730	-0.711	0.167
14,205.00	90.06	180.97	10,978.01	-3,421.44	17.54	3,421.48	2.050	-1.472	1.427
14,295.00	90.28	180.24	10,977.74	-3,511.44	16.59	3,511.46	0.847	0.244	-0.811
14,384.00	89.55	178.62	10,977.87	-3,600.43	17.47	3,600.46	1.996	-0.820	-1.820
14,474.00	89.64	179.63	10,978.51	-3,690.42	18.85	3,690.45	1.127	0.100	1.122
14,563.00	89.25	178.78	10,979.37	-3,779.40	20.08	3,779.44	1.051	-0.438	-0.955
14,653.00	89.64	179.27	10,980.24	-3,869.39	21.61	3,869.43	0.696	0.433	0.544
14,743.00	89.97	181.30	10,980.55	-3,959.38	21.16	3,959.42	2.285	0.367	2.256
14,832.00	90.03	181.05	10,980.55	-4,048.36	19.34	4,048.39	0.289	0.067	-0.281
14,922.00	89.69	179.84	10,980.77	-4,138.36	18.64	4,138.37	1.397	-0.378	-1.344
15,011.00	88.15	179.49	10,982.45	-4,227.34	19.16	4,227.35	1.774	-1.730	-0.393
15,100.00	88.55	179.94	10,985.01	-4,316.30	19.60	4,316.32	0.676	0.449	0.506
15,190.00	90.00	180.43	10,986.15	-4,406.29	19.31	4,406.30	1.701	1.611	0.544
15,280.00	90.31	179.56	10,985.90	-4,496.29	19.32	4,496.30	1.026	0.344	-0.967
15,369.00	90.59	180.63	10,985.21	-4,585.28	19.17	4,585.29	1.243	0.315	1.202
15,458.00	89.72	183.15	10,984.97	-4,674.22	16.24	4,674.20	2.995	-0.978	2.831
15,548.00	89.86	183.06	10,985.30	-4,764.09	11.36	4,764.03	0.185	0.156	-0.100
15,637.00	90.28	182.25	10,985.19	-4,852.99	7.24	4,852.90	1.025	0.472	-0.910
15,727.00	90.14	179.64	10,984.86	-4,942.97	5.76	4,942.86	2.904	-0.156	-2.900
15,785.00	90.17	179.27	10,984.70	-5,000.97	6.31	5,000.86	0.640	0.052	-0.638
Last Alm Svy									
15,803.00	90.17	179.27	10,984.65	-5,018.97	6.54	5,018.86	0.000	0.000	0.000
Actual LTP (15803.00'MD)									
15,843.00	90.17	179.27	10,984.53	-5,058.97	7.05	5,058.86	0.000	0.000	0.000
Projection to BHL									

Survey Report

Company:	Marshall & Winston, Inc.	Local Co-ordinate Reference:	Well 36 St Com 2L #4H - Office
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Site:	Loco Dinero 36 State Com 2L #4H	MD Reference:	Well @ 3681.20usft (Precision 599 25'KB)
Well:	36 St Com 2L #4H - Office	North Reference:	Grid
Wellbore:	Drilling	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDMRESTORED

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,762.00	1,761.96	-7.61	-7.00	Tie on Invictus
1,866.00	1,865.96	-8.13	-7.35	First Aim Svy
11,081.70	10,946.83	-301.98	-1.26	Actual FTP (11081.70'MD)
15,785.00	10,984.70	-5,000.97	6.31	Last Aim Svy
15,803.00	10,984.65	-5,018.97	6.54	Actual LTP (15803.00'MD)
15,843.00	10,984.53	-5,058.97	7.05	Projection to BHL

Checked By: _____	Approved By: _____	Date: _____
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API # 30-025-47046	 Loco Dinero 36 2L State Com 4H Lea County, NM ECW Schematic	SHL: 160' FNL, 360' FWL BHL: 60' FSL, 326' FWL TD: 15,843' TMD 10,990' TVD	SHL: Sec 36, T-21-S, R-33-E, Lea County NM
KB: 25' GL W/KB 3661'		SHL: Sec 36, T-21-S, R-33-E, Lea County NM	

1,807' 13-3/8" 54.5# J-55 STC
Circ cement to surface

DV Tool @ 4,010'

5628' 9-5/8" 40# 1501' HCP-110 & 4104' N-80 LTC Casing
Circ cement to surface

KOP 10,465'
EOC 11,430'

Air Lock Tool: 10,388'
Marker Joint: 10,432'

FTP: 11,082'
LTP: 15,803'

5-1/2" P-110 20# Butress Casing
TD: 15,843'
PBTD: 15,817'

5-1/2" 20# HPC-110, cement to surface.

TVD: 10,970' - 11,000'

Well Information

Surface Location: Lea County, NM T21S R33E Section 36

District I

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

District II

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 38787

ACKNOWLEDGMENTS

Operator: MARSHALL & WINSTON INC P.O. Box 50880 Midland, TX 79710	OGRID: 14187
	Action Number: 38787
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I

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

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 38787

CONDITIONS

Operator: MARSHALL & WINSTON INC P.O. Box 50880 Midland, TX 79710	OGRID: 14187
	Action Number: 38787
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	RT C-104 Expires 10/27/2021; Submit all drilling, casing, completion sundries/reports.	8/2/2021