

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
311 S. First St., 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 Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

HOBBS OGD

AUG 15 2013

RECEIVED

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 August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-41340		² Pool Code 59900	³ Pool Name TRIPLE X; BONE SPRING
⁴ Property Code 30884	⁵ Property Name THISTLE UNIT		⁶ Well Number 56H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3689.8

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
O	22	23 S	33 E		150	SOUTH	2200	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	23 S	33 E		330	SOUTH	1980	WEST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

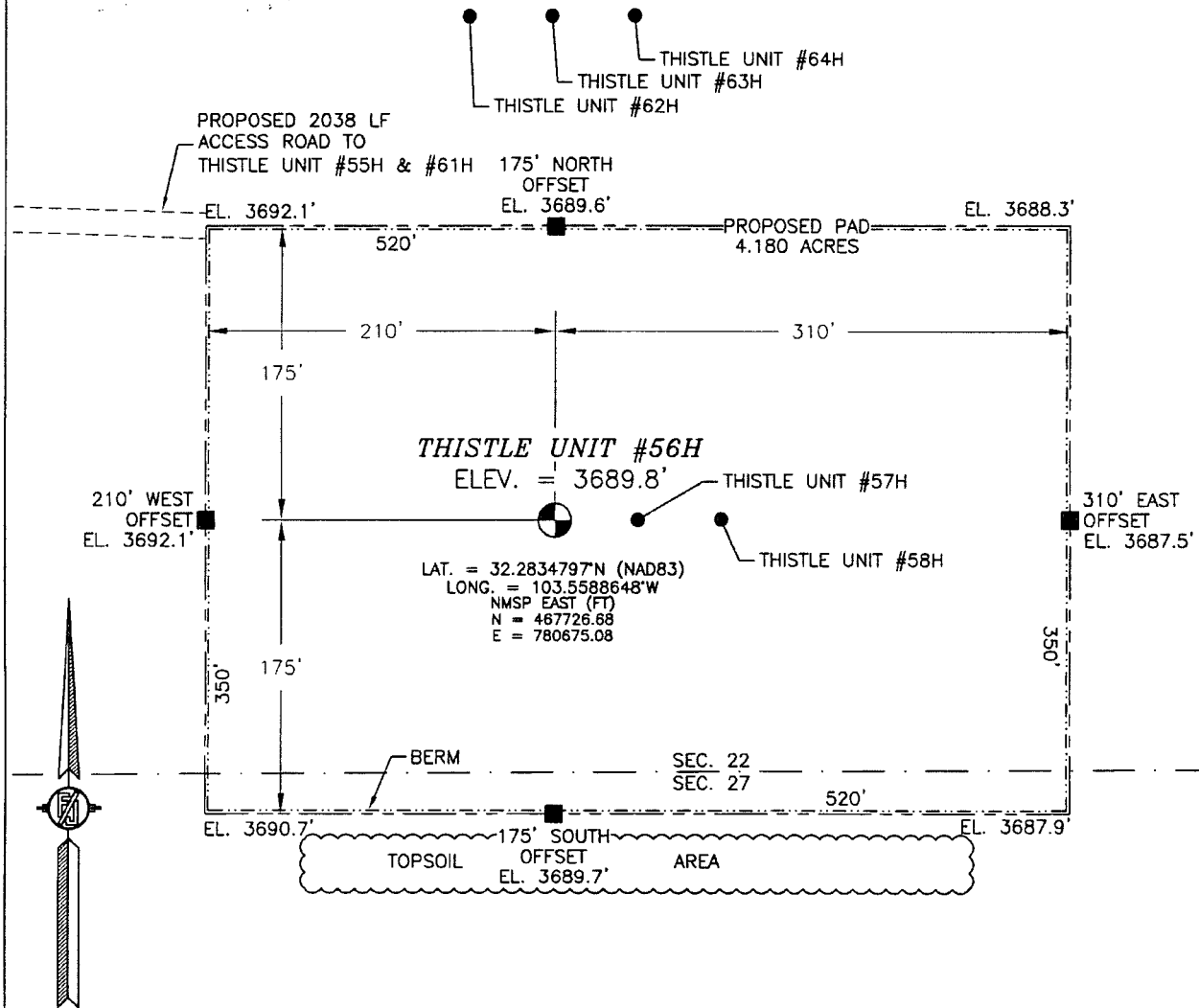
		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>D. H. Cook</i> 8/14/13 Signature Date David H. Cook Regulatory Specialist Printed Name david.cook@dvn.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. JULY 31, 2013 Date of Survey <i>David H. Cook</i> Signature and Seal of Professional Surveyor Certificate Number: 12799 SURVEY NO. 2109		

AUG 16 2013

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 3.95 MILES, TURN LEFT ON PAVED ROAD (XL ROAD) AND GO WEST 3.4 MILES, TURN RIGHT ON CALICHE ROAD AND GO NORTH 0.9 MILES, BEND LEFT AND GO NORTHWEST 0.15 MILES, BEND RIGHT AND GO NORTHEAST 0.1 MILES, BEND RIGHT AND GO EAST 375' TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS EAST 92', BEND LEFT AND FOLLOW FLAGS NORTHEAST 187' TO THE NORTHWEST CORNER OF PROPOSED THISTLE UNIT #55H PAD, THEN FROM THE NORTHEAST CORNER OF #55H PAD FOLLOW FLAGS EAST-SOUTHEAST 2038' TO THE NORTHWEST CORNER OF PROPOSED PAD FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT #56H

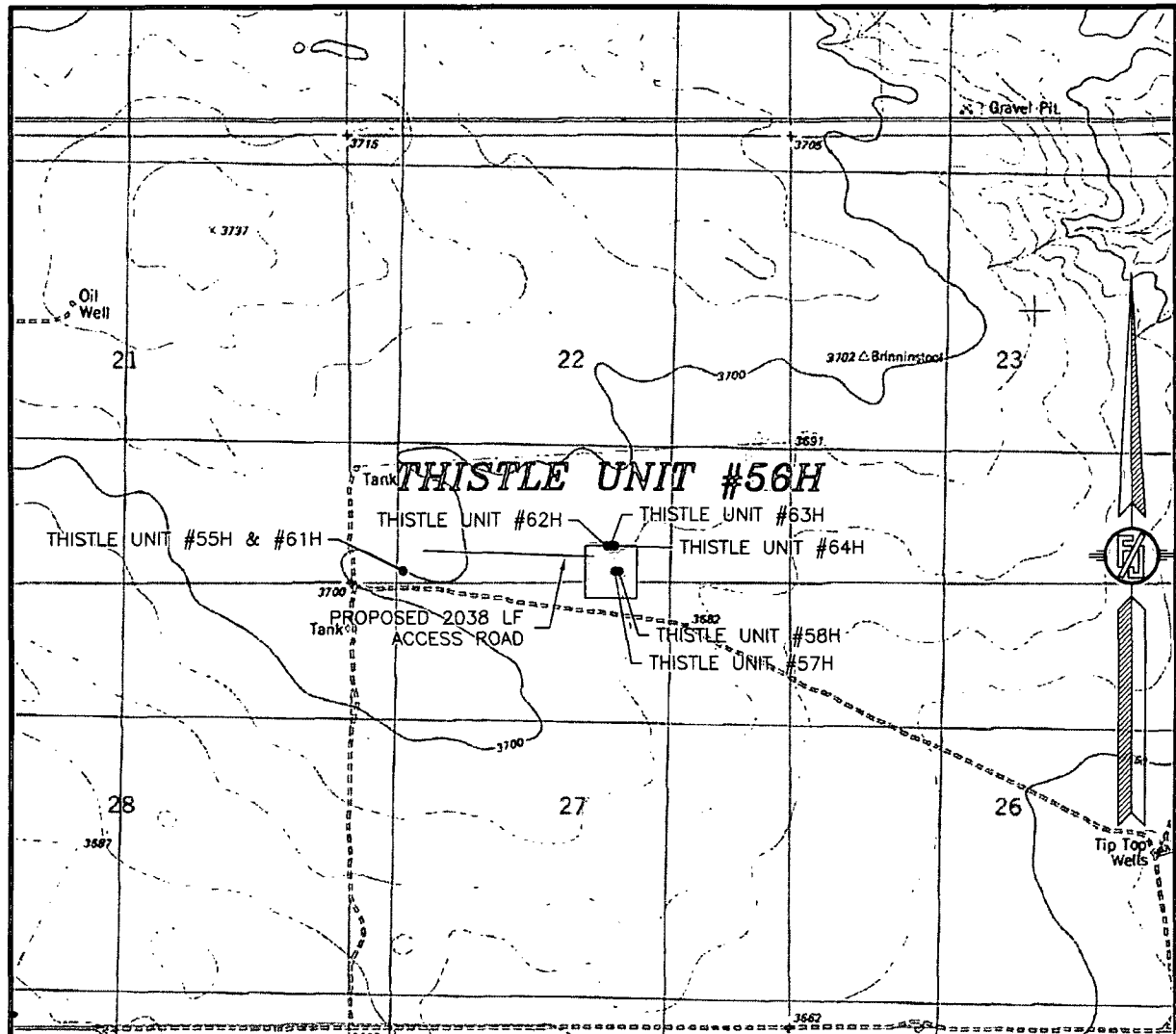
LOCATED 150 FT. FROM THE SOUTH LINE
AND 2200 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

SURVEY NO. 2109

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
TIP TOP WELLS

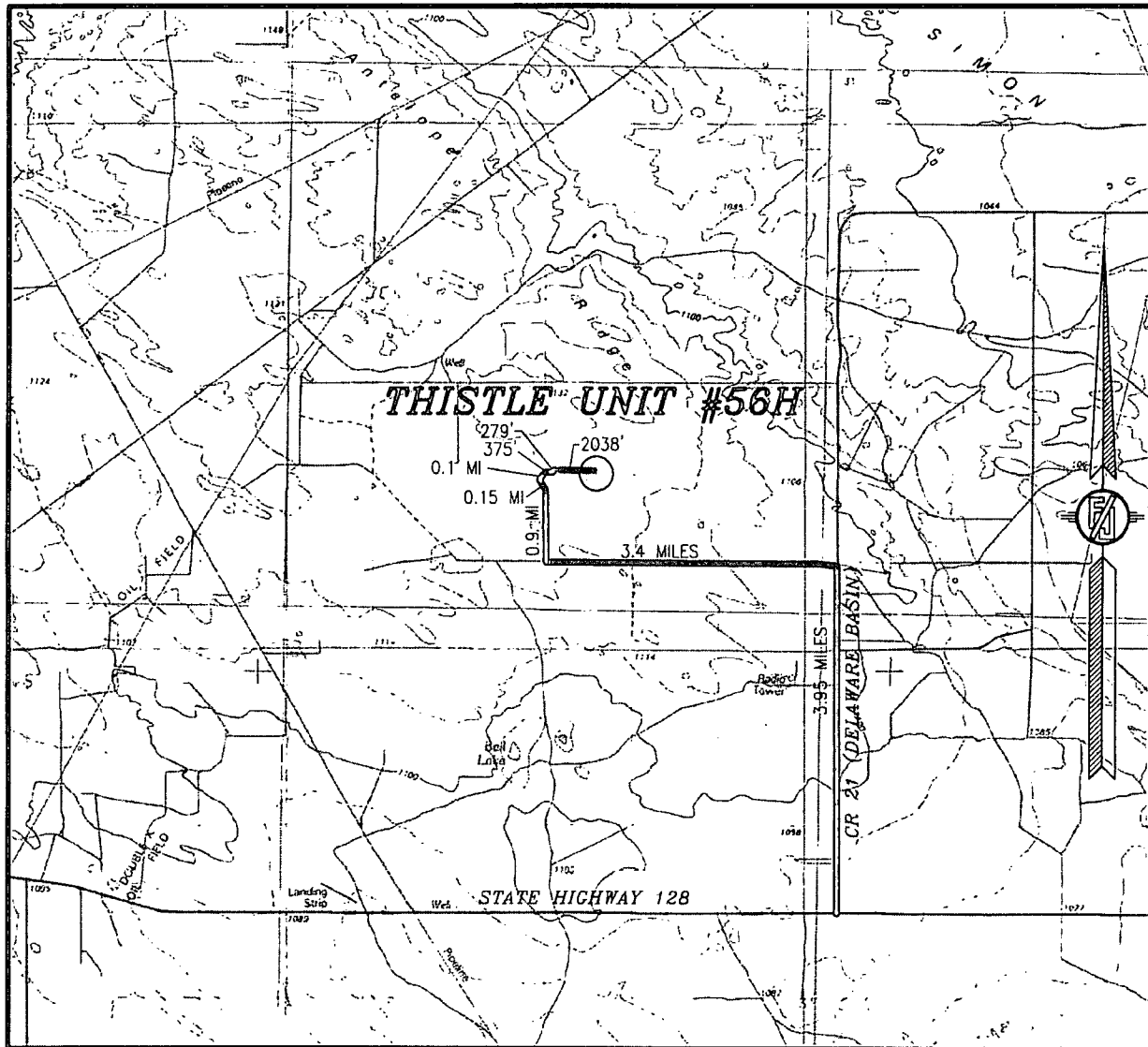
NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
THISTLE UNIT #56H
LOCATED 150 FT. FROM THE SOUTH LINE
AND 2200 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 2109

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT #56H

LOCATED 150 FT. FROM THE SOUTH LINE
AND 2200 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

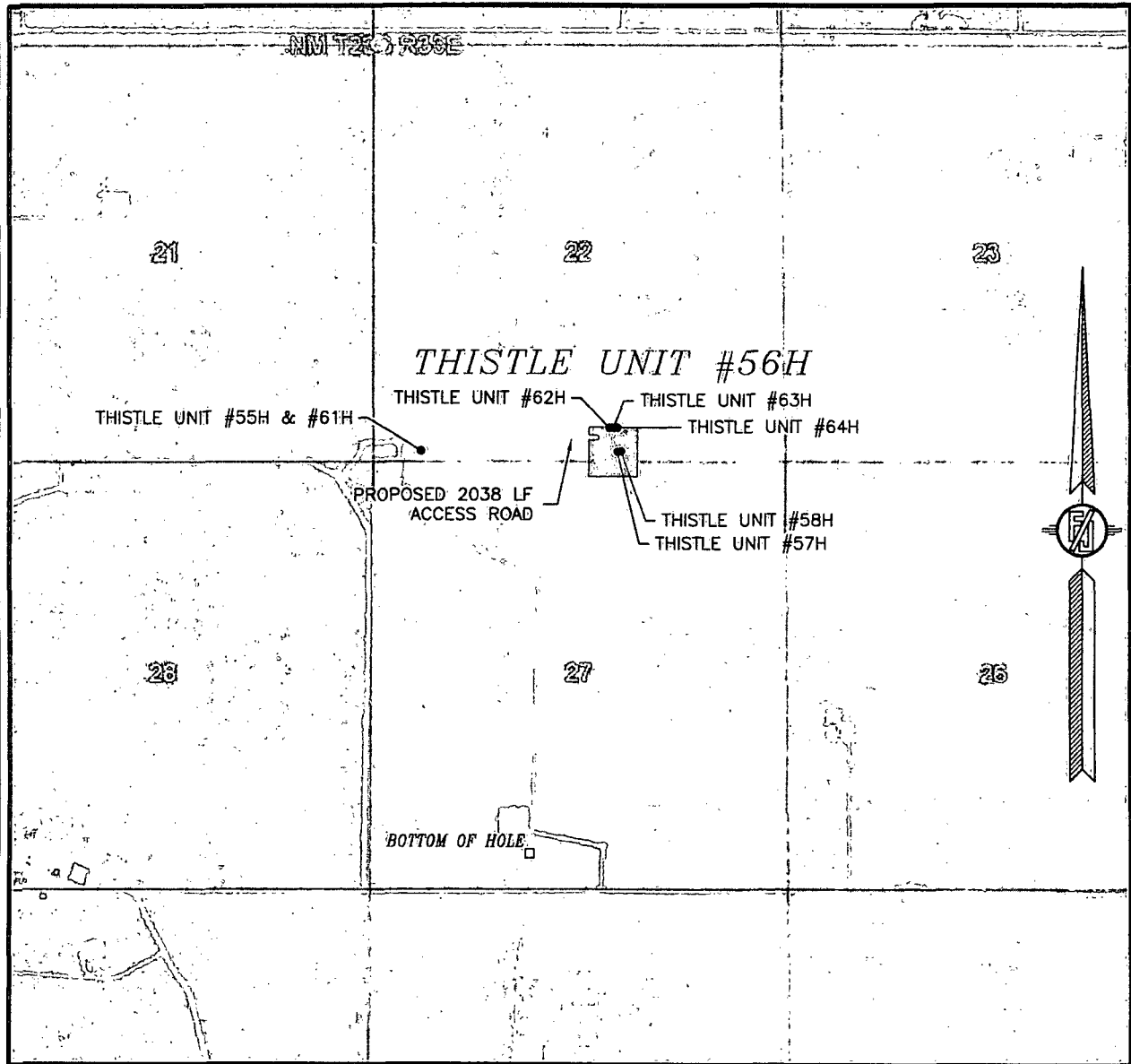
DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 3.95 MILES, TURN LEFT ON PAVED ROAD (XL ROAD) AND GO WEST 3.4 MILES, TURN RIGHT ON CALICHE ROAD AND GO NORTH 0.9 MILES, BEND LEFT AND GO NORTHWEST 0.15 MILES, BEND RIGHT AND GO NORTHEAST 0.1 MILES, BEND RIGHT AND GO EAST 375' TO A PROPOSED ROAD SURVEY AND FOLLOW FLAGS EAST 92', BEND LEFT AND FOLLOW FLAGS NORTHEAST 187' TO THE NORTHWEST CORNER OF PROPOSED THISTLE UNIT #55H PAD, THEN FROM THE NORTHEAST CORNER OF #55H PAD FOLLOW FLAGS EAST-SOUTHEAST 2038' TO THE NORTHWEST CORNER OF PROPOSED PAD FOR THIS LOCATION.

SURVEY NO. 2109

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 22, TOWNSHIP 23 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MARCH 2012

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT #56H

LOCATED 150 FT. FROM THE SOUTH LINE
AND 2200 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

SURVEY NO. 2109

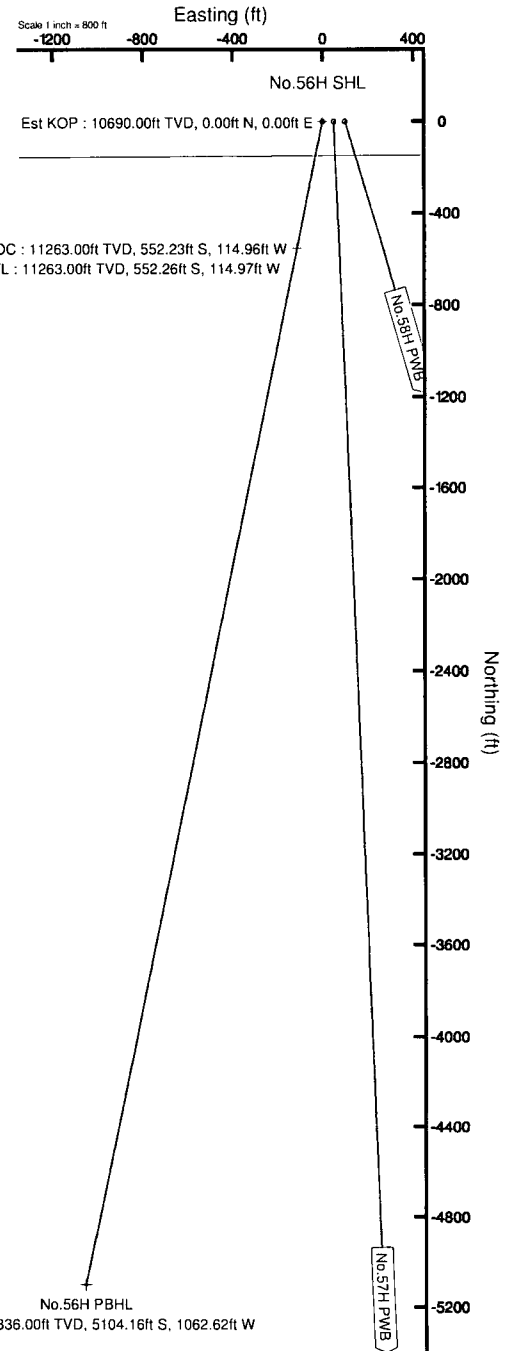
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO



Devon Energy

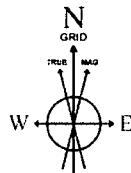
Location: Lea County, NM
Field: (Thistle) Sec 22, T23S, R33E
Facility: Thistle Unit No.56H & No.57H & No.58H

Slot: No.56H SHL
Well: No.56H
Wellbore: No.56H PWB

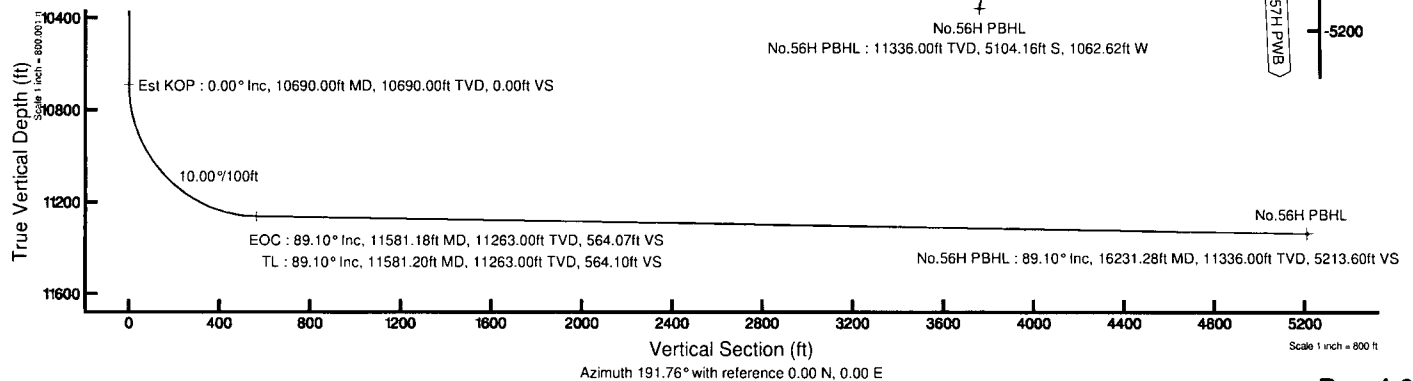


Well Profile Data								
Design Comment	MD (ft)	Inc. (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	25.00	0.000	191.760	25.00	0.00	0.00	0.00	0.00
Est KOP	10690.00	0.000	191.760	10690.00	0.00	0.00	0.00	0.00
EOC	11581.18	89.100	191.760	11263.00	-552.23	-114.96	10.00	564.07
TL	11581.20	89.101	191.760	11263.00	-552.26	-114.97	2.00	564.10
No.56H PBHL	16231.28	89.101	191.760	11336.00	-5104.16	-1062.62	0.00	5213.60

Plot reference wellpath is Rev-A.0	
True vertical depths are referenced to Rig on No.56H SHL (KB)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.56H SHL (KB)	North Reference: Grid north
Rig on No.56H SHL (KB) to Mean Sea Level: 3714.8 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.56H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 08/12/2013



BGGM (1945.0 to 2015.0) Dip: 60.18° Field: 48426 nT
Magnetic North is 7.42 degrees East of True North (at 08/12/2013)
Grid North is 0.41 degrees East of True North
To correct azimuth from True to Grid subtract 0.41 degrees
To correct azimuth from Magnetic to Grid add 7.01 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.01 = 97.01



Rev-A.0



Planned Wellpath Report

Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Devon Energy	Slot	No.56H SHL
Area	Lea County, NM	Well	No.56H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.56H PWB
Facility	Thistle Unit No.56H & No.57H & No.58H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999975	Report Generated	08/12/2013 at 8:58:47 AM
Convergence at slot	0.41° East	Database/Source file	WA Midland/No.56H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W
Facility Reference Pt			780675.08	467726.68	32°17'00.527"N	103°33'31.913"W
Field Reference Pt			780675.08	467726.68	32°17'00.527"N	103°33'31.913"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No.56H SHL (KB) to Facility Vertical Datum	3714.80ft
Horizontal Reference Pt	Slot	Rig on No.56H SHL (KB) to Mean Sea Level	3714.80ft
Vertical Reference Pt	Rig on No.56H SHL (KB)	Rig on No.56H SHL (KB) to Mud Line at Slot (No.56H SHL)	3714.80ft
MD Reference Pt	Rig on No.56H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	191.76°



Planned Wellpath Report

Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.56H SHL
Area	Lea County, NM	Well	No.56H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.56H PWB
Facility	Thistle Unit No.56H & No.57H & No.58H		

WELLPATH DATA (177 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	191.760	0.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
25.00	0.000	191.760	25.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Tie On
125.00†	0.000	191.760	125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
225.00†	0.000	191.760	225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
325.00†	0.000	191.760	325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
425.00†	0.000	191.760	425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
525.00†	0.000	191.760	525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
625.00†	0.000	191.760	625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
725.00†	0.000	191.760	725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
825.00†	0.000	191.760	825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
925.00†	0.000	191.760	925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1025.00†	0.000	191.760	1025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1125.00†	0.000	191.760	1125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1225.00†	0.000	191.760	1225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1290.00†	0.000	191.760	1290.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Rustler
1325.00†	0.000	191.760	1325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1425.00†	0.000	191.760	1425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1525.00†	0.000	191.760	1525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1625.00†	0.000	191.760	1625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1725.00†	0.000	191.760	1725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1770.00†	0.000	191.760	1770.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Top Salt
1825.00†	0.000	191.760	1825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
1925.00†	0.000	191.760	1925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2025.00†	0.000	191.760	2025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2125.00†	0.000	191.760	2125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2225.00†	0.000	191.760	2225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2325.00†	0.000	191.760	2325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2425.00†	0.000	191.760	2425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2525.00†	0.000	191.760	2525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2625.00†	0.000	191.760	2625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2725.00†	0.000	191.760	2725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2825.00†	0.000	191.760	2825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
2925.00†	0.000	191.760	2925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3025.00†	0.000	191.760	3025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3125.00†	0.000	191.760	3125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3225.00†	0.000	191.760	3225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3325.00†	0.000	191.760	3325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3425.00†	0.000	191.760	3425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3525.00†	0.000	191.760	3525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3625.00†	0.000	191.760	3625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3725.00†	0.000	191.760	3725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3825.00†	0.000	191.760	3825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
3925.00†	0.000	191.760	3925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4025.00†	0.000	191.760	4025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4125.00†	0.000	191.760	4125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	



Planned Wellpath Report

Rev-A.0
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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.56H SHL
Area	Lea County, NM	Well	No.56H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.56H PWB
Facility	Thistle Unit No.56H & No.57H & No.58H		

WELLPATH DATA (177 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4225.00†	0.000	191.760	4225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4325.00†	0.000	191.760	4325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4425.00†	0.000	191.760	4425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4525.00†	0.000	191.760	4525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4625.00†	0.000	191.760	4625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4725.00†	0.000	191.760	4725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4825.00†	0.000	191.760	4825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
4925.00†	0.000	191.760	4925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5025.00†	0.000	191.760	5025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5090.00†	0.000	191.760	5090.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Base Salt
5125.00†	0.000	191.760	5125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5190.00†	0.000	191.760	5190.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Delaware
5225.00†	0.000	191.760	5225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5325.00†	0.000	191.760	5325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5425.00†	0.000	191.760	5425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5525.00†	0.000	191.760	5525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5625.00†	0.000	191.760	5625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5725.00†	0.000	191.760	5725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5825.00†	0.000	191.760	5825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
5925.00†	0.000	191.760	5925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6025.00†	0.000	191.760	6025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6060.00†	0.000	191.760	6060.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Cherry Canyon
6125.00†	0.000	191.760	6125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6225.00†	0.000	191.760	6225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6325.00†	0.000	191.760	6325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6425.00†	0.000	191.760	6425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6525.00†	0.000	191.760	6525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6625.00†	0.000	191.760	6625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6725.00†	0.000	191.760	6725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6825.00†	0.000	191.760	6825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
6925.00†	0.000	191.760	6925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7025.00†	0.000	191.760	7025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7125.00†	0.000	191.760	7125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7225.00†	0.000	191.760	7225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7325.00†	0.000	191.760	7325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7425.00†	0.000	191.760	7425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7525.00†	0.000	191.760	7525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7625.00†	0.000	191.760	7625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7640.00†	0.000	191.760	7640.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Brushy Canyon
7725.00†	0.000	191.760	7725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7825.00†	0.000	191.760	7825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
7925.00†	0.000	191.760	7925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8025.00†	0.000	191.760	8025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8125.00†	0.000	191.760	8125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8225.00†	0.000	191.760	8225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.56H SHL
Area	Lea County, NM	Well	No.56H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.56H PWB
Facility	Thistle Unit No.56H & No.57H & No.58H		

WELLPATH DATA (177 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8325.00†	0.000	191.760	8325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8425.00†	0.000	191.760	8425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8525.00†	0.000	191.760	8525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8625.00†	0.000	191.760	8625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8725.00†	0.000	191.760	8725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8825.00†	0.000	191.760	8825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
8925.00†	0.000	191.760	8925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9025.00†	0.000	191.760	9025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9070.00†	0.000	191.760	9070.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Bone Spring Lime
9125.00†	0.000	191.760	9125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9225.00†	0.000	191.760	9225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9325.00†	0.000	191.760	9325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9425.00†	0.000	191.760	9425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9525.00†	0.000	191.760	9525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9625.00†	0.000	191.760	9625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9725.00†	0.000	191.760	9725.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9825.00†	0.000	191.760	9825.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
9925.00†	0.000	191.760	9925.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10025.00†	0.000	191.760	10025.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10065.00†	0.000	191.760	10065.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	1st Bone Spring Sand
10125.00†	0.000	191.760	10125.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10225.00†	0.000	191.760	10225.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10325.00†	0.000	191.760	10325.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10425.00†	0.000	191.760	10425.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10525.00†	0.000	191.760	10525.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10625.00†	0.000	191.760	10625.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
10690.00	0.000	191.760	10690.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	Est KOP
10725.00†	3.499	191.760	10724.98	1.07	-1.05	-0.22	780674.86	467725.63	32°17'00.516"N	103°33'31.916"W	10.00	
10770.26†	8.025	191.760	10770.00	5.61	-5.49	-1.14	780673.94	467721.19	32°17'00.473"N	103°33'31.927"W	10.00	2nd Bone Spring Sand
10825.00†	13.497	191.760	10823.75	15.83	-15.50	-3.23	780671.85	467711.18	32°17'00.374"N	103°33'31.952"W	10.00	
10925.00†	23.495	191.760	10918.47	47.51	-46.51	-9.68	780665.40	467680.17	32°17'00.067"N	103°33'32.030"W	10.00	
11025.00†	33.493	191.760	11006.24	95.16	-93.16	-19.39	780655.69	467633.52	32°16'59.606"N	103°33'32.147"W	10.00	
11125.00†	43.491	191.760	11084.41	157.32	-154.02	-32.06	780643.02	467572.67	32°16'59.005"N	103°33'32.300"W	10.00	
11225.00†	53.489	191.760	11150.60	232.11	-227.24	-47.31	780627.77	467499.45	32°16'58.282"N	103°33'32.483"W	10.00	
11325.00†	63.487	191.760	11202.80	317.26	-310.60	-64.66	780610.42	467416.09	32°16'57.458"N	103°33'32.692"W	10.00	
11425.00†	73.486	191.760	11239.43	410.17	-401.56	-83.60	780591.48	467325.13	32°16'56.559"N	103°33'32.921"W	10.00	
11525.00†	83.484	191.760	11259.37	508.03	-497.37	-103.54	780571.54	467229.32	32°16'55.613"N	103°33'33.161"W	10.00	
11581.18	89.100	191.760	11263.00	564.07	-552.23	-114.96	780560.12	467174.47	32°16'55.071"N	103°33'33.299"W	10.00	EOC
11581.20	89.101	191.760	11263.00	564.10	-552.26	-114.97	780560.11	467174.44	32°16'55.071"N	103°33'33.299"W	2.00	TL
11625.00†	89.101	191.760	11263.69	607.89	-595.13	-123.90	780551.19	467131.57	32°16'54.647"N	103°33'33.406"W	0.00	
11725.00†	89.101	191.760	11265.26	707.88	-693.02	-144.27	780530.81	467033.68	32°16'53.680"N	103°33'33.652"W	0.00	
11825.00†	89.101	191.760	11266.83	807.86	-790.91	-164.65	780510.43	466935.80	32°16'52.713"N	103°33'33.898"W	0.00	
11925.00†	89.101	191.760	11268.40	907.85	-888.80	-185.03	780490.05	466837.91	32°16'51.746"N	103°33'34.143"W	0.00	
12025.00†	89.101	191.760	11269.97	1007.84	-986.68	-205.41	780469.67	466740.02	32°16'50.778"N	103°33'34.389"W	0.00	
12125.00†	89.101	191.760	11271.54	1107.83	-1084.57	-225.79	780449.29	466642.14	32°16'49.811"N	103°33'34.634"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.56H SHL
Area	Lea County, NM	Well	No.56H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.56H PWB
Facility	Thistle Unit No.56H & No.57H & No.58H		

WELLPATH DATA (177 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12225.00†	89.101	191.760	11273.11	1207.81	-1182.46	-246.17	780428.92	466544.25	32°16'48.844"N	103°33'34.880"W	0.00	
12325.00†	89.101	191.760	11274.68	1307.80	-1280.35	-266.55	780408.54	466446.36	32°16'47.877"N	103°33'35.125"W	0.00	
12425.00†	89.101	191.760	11276.25	1407.79	-1378.24	-286.93	780388.16	466348.48	32°16'46.910"N	103°33'35.371"W	0.00	
12525.00†	89.101	191.760	11277.82	1507.78	-1476.13	-307.31	780367.78	466250.59	32°16'45.943"N	103°33'35.617"W	0.00	
12625.00†	89.101	191.760	11279.39	1607.77	-1574.02	-327.69	780347.40	466152.71	32°16'44.976"N	103°33'35.862"W	0.00	
12725.00†	89.101	191.760	11280.96	1707.75	-1671.91	-348.07	780327.02	466054.82	32°16'44.008"N	103°33'36.108"W	0.00	
12825.00†	89.101	191.760	11282.53	1807.74	-1769.79	-368.45	780306.64	465956.93	32°16'43.041"N	103°33'36.353"W	0.00	
12925.00†	89.101	191.760	11284.10	1907.73	-1867.68	-388.83	780286.27	465859.05	32°16'42.074"N	103°33'36.599"W	0.00	
13025.00†	89.101	191.760	11285.67	2007.72	-1965.57	-409.20	780265.89	465761.16	32°16'41.107"N	103°33'36.845"W	0.00	
13125.00†	89.101	191.760	11287.24	2107.70	-2063.46	-429.58	780245.51	465663.28	32°16'40.140"N	103°33'37.090"W	0.00	
13225.00†	89.101	191.760	11288.81	2207.69	-2161.35	-449.96	780225.13	465565.39	32°16'39.173"N	103°33'37.336"W	0.00	
13325.00†	89.101	191.760	11290.38	2307.68	-2259.24	-470.34	780204.75	465467.50	32°16'38.206"N	103°33'37.581"W	0.00	
13425.00†	89.101	191.760	11291.95	2407.67	-2357.13	-490.72	780184.37	465369.62	32°16'37.238"N	103°33'37.827"W	0.00	
13525.00†	89.101	191.760	11293.52	2507.65	-2455.02	-511.10	780163.99	465271.73	32°16'36.271"N	103°33'38.072"W	0.00	
13625.00†	89.101	191.760	11295.09	2607.64	-2552.91	-531.48	780143.61	465173.84	32°16'35.304"N	103°33'38.318"W	0.00	
13725.00†	89.101	191.760	11296.66	2707.63	-2650.79	-551.86	780123.24	465075.96	32°16'34.337"N	103°33'38.564"W	0.00	
13825.00†	89.101	191.760	11298.22	2807.62	-2748.68	-572.24	780102.86	464978.07	32°16'33.370"N	103°33'38.809"W	0.00	
13925.00†	89.101	191.760	11299.79	2907.60	-2846.57	-592.62	780082.48	464880.19	32°16'32.403"N	103°33'39.055"W	0.00	
14025.00†	89.101	191.760	11301.36	3007.59	-2944.46	-613.00	780062.10	464782.30	32°16'31.436"N	103°33'39.300"W	0.00	
14125.00†	89.101	191.760	11302.93	3107.58	-3042.35	-633.38	780041.72	464684.41	32°16'30.469"N	103°33'39.546"W	0.00	
14225.00†	89.101	191.760	11304.50	3207.57	-3140.24	-653.76	780021.34	464586.53	32°16'29.501"N	103°33'39.791"W	0.00	
14325.00†	89.101	191.760	11306.07	3307.56	-3238.13	-674.13	780000.96	464488.64	32°16'28.534"N	103°33'40.037"W	0.00	
14425.00†	89.101	191.760	11307.64	3407.54	-3336.02	-694.51	779980.59	464390.76	32°16'27.567"N	103°33'40.283"W	0.00	
14525.00†	89.101	191.760	11309.21	3507.53	-3433.90	-714.89	779960.21	464292.87	32°16'26.600"N	103°33'40.528"W	0.00	
14625.00†	89.101	191.760	11310.78	3607.52	-3531.79	-735.27	779939.83	464194.98	32°16'25.633"N	103°33'40.774"W	0.00	
14725.00†	89.101	191.760	11312.35	3707.51	-3629.68	-755.65	779919.45	464097.10	32°16'24.666"N	103°33'41.019"W	0.00	
14825.00†	89.101	191.760	11313.92	3807.49	-3727.57	-776.03	779899.07	463999.21	32°16'23.699"N	103°33'41.265"W	0.00	
14925.00†	89.101	191.760	11315.49	3907.48	-3825.46	-796.41	779878.69	463901.32	32°16'22.731"N	103°33'41.510"W	0.00	
15025.00†	89.101	191.760	11317.06	4007.47	-3923.35	-816.79	779858.31	463803.44	32°16'21.764"N	103°33'41.756"W	0.00	
15125.00†	89.101	191.760	11318.63	4107.46	-4021.24	-837.17	779837.93	463705.55	32°16'20.797"N	103°33'42.001"W	0.00	
15225.00†	89.101	191.760	11320.20	4207.44	-4119.13	-857.55	779817.56	463607.67	32°16'19.830"N	103°33'42.247"W	0.00	
15325.00†	89.101	191.760	11321.77	4307.43	-4217.02	-877.93	779797.18	463509.78	32°16'18.863"N	103°33'42.492"W	0.00	
15425.00†	89.101	191.760	11323.34	4407.42	-4314.90	-898.31	779776.80	463411.89	32°16'17.896"N	103°33'42.738"W	0.00	
15525.00†	89.101	191.760	11324.91	4507.41	-4412.79	-918.69	779756.42	463314.01	32°16'16.929"N	103°33'42.984"W	0.00	
15625.00†	89.101	191.760	11326.48	4607.40	-4510.68	-939.06	779736.04	463216.12	32°16'15.961"N	103°33'43.229"W	0.00	
15725.00†	89.101	191.760	11328.05	4707.38	-4608.57	-959.44	779715.66	463118.24	32°16'14.994"N	103°33'43.475"W	0.00	
15825.00†	89.101	191.760	11329.62	4807.37	-4706.46	-979.82	779695.28	463020.35	32°16'14.027"N	103°33'43.720"W	0.00	
15925.00†	89.101	191.760	11331.19	4907.36	-4804.35	-1000.20	779674.91	462922.46	32°16'13.060"N	103°33'43.966"W	0.00	
16025.00†	89.101	191.760	11332.76	5007.35	-4902.24	-1020.58	779654.53	462824.58	32°16'12.093"N	103°33'44.211"W	0.00	
16125.00†	89.101	191.760	11334.33	5107.33	-5000.13	-1040.96	779634.15	462726.69	32°16'11.126"N	103°33'44.457"W	0.00	
16225.00†	89.101	191.760	11335.90	5207.32	-5098.01	-1061.34	779613.77	462628.80	32°16'10.159"N	103°33'44.702"W	0.00	
16231.28	89.101	191.760	11336.00 ¹	5213.60	-5104.16	-1062.62	779612.49	462622.66	32°16'10.098"N	103°33'44.718"W	0.00	No.56H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.56H PBHL	16231.28	11336.00	-5104.16	-1062.62	779612.49	462622.66	32°16'10.098"N	103°33'44.718"W	point

SURVEY PROGRAM - Ref Wellbore: No.56H PWB Ref Wellpath: Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	16231.28	NaviTrak (Standard)		No.56H PWB