

District I
1623 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 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

State of New Mexico
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

AUG 15 2013

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-41342	² Pool Code 59900	³ Pool Name TRIPLE X; BONE SPRING
⁴ Property Code 30884	⁵ Property Name THISTLE UNIT	
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	
		⁶ Well Number 58H
		⁹ Elevation 3689.0

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
O	22	23 S	33 E		150	SOUTH	2100	EAST	LEA

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
P	27	23 S	33 E		330	SOUTH	660	EAST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

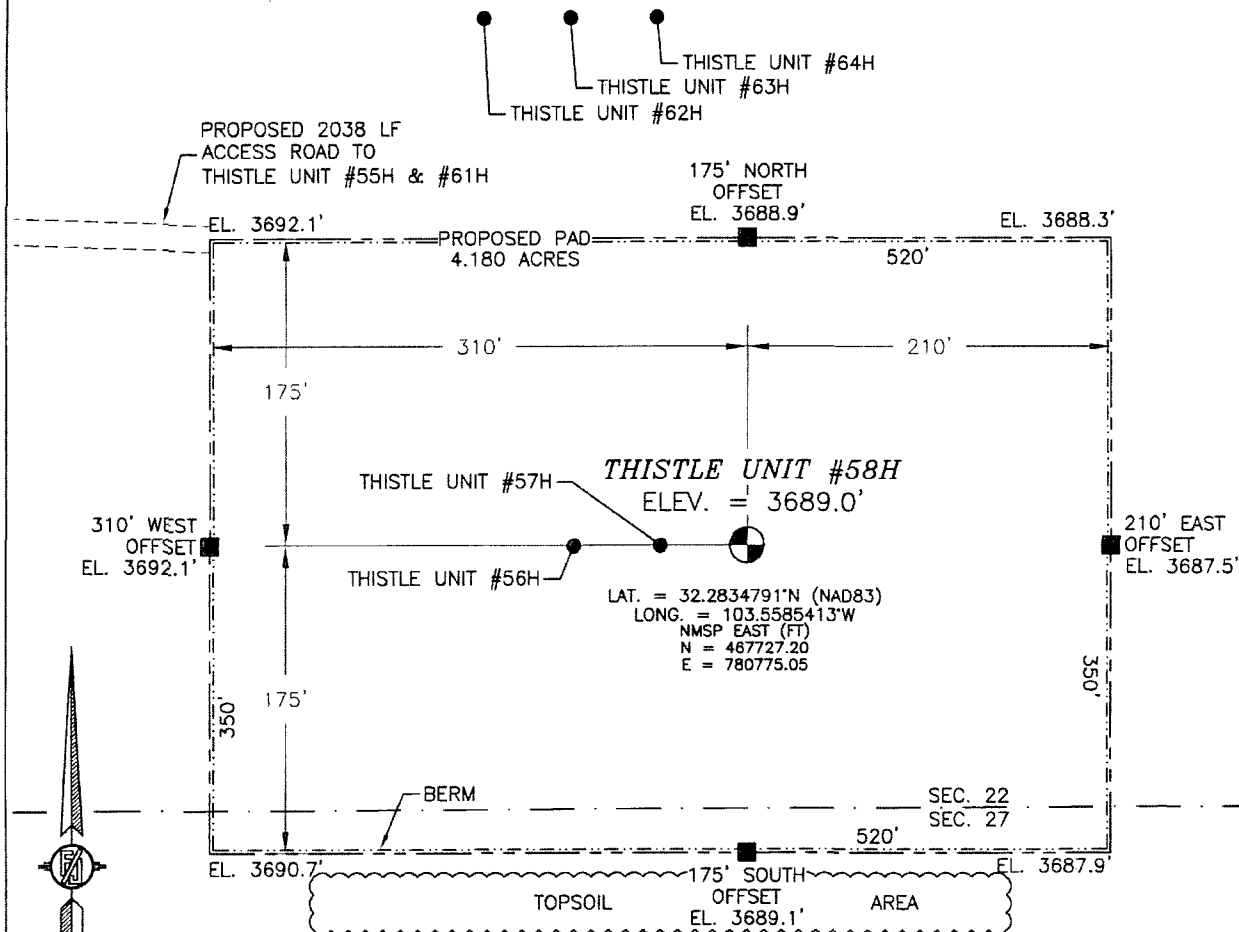
SEC. 22 THISTLE UNIT #58H ELEV. = 3689.0 LAT. = 32.2834791°N (NAD83) LONG. = 103.5585413°W NMSP EAST (FT) N = 467727.20 E = 780775.051 SURFACE LOCATION SW CORNER SEC. 22 LAT. = 32.2830812°N LONG. = 103.5688338°W NMSP EAST (FT) N = 467559.63 E = 777595.25 SE CORNER SEC. 22 LAT. = 32.2830698°N LONG. = 103.5602890°W NMSP EAST (FT) N = 467574.40 E = 780236.01 SE CORNER SEC. 22 LAT. = 32.2830550°N LONG. = 103.5517472°W NMSP EAST (FT) N = 467588.15 E = 782875.83 2100' 2641.34 FT 2640.41 FT		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> 8/14/2013 Signature Date David H. Cook Regulatory Specialist Printed Name david.cook@dvn.com E-mail Address
SEC. 27 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. SW CORNER SEC. 27 LAT. = 32.2758203°N LONG. = 103.5688303°W NMSP EAST (FT) N = 464918.11 E = 777615.17 SE CORNER SEC. 27 LAT. = 32.2758360°N LONG. = 103.5517456°W NMSP EAST (FT) N = 464961.87 E = 782895.46 SE CORNER SEC. 27 LAT. = 32.2685456°N LONG. = 103.5517436°W NMSP EAST (FT) N = 462309.84 E = 782915.41 660' 2640.56 FT		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>Frank F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: FRANK F. JARAMILLO, PLS 12797 SURVEY NO. 2111

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 #58H

LOCATED 150 FT. FROM THE SOUTH LINE
AND 2100 FT. FROM THE EAST LINE OF

SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.

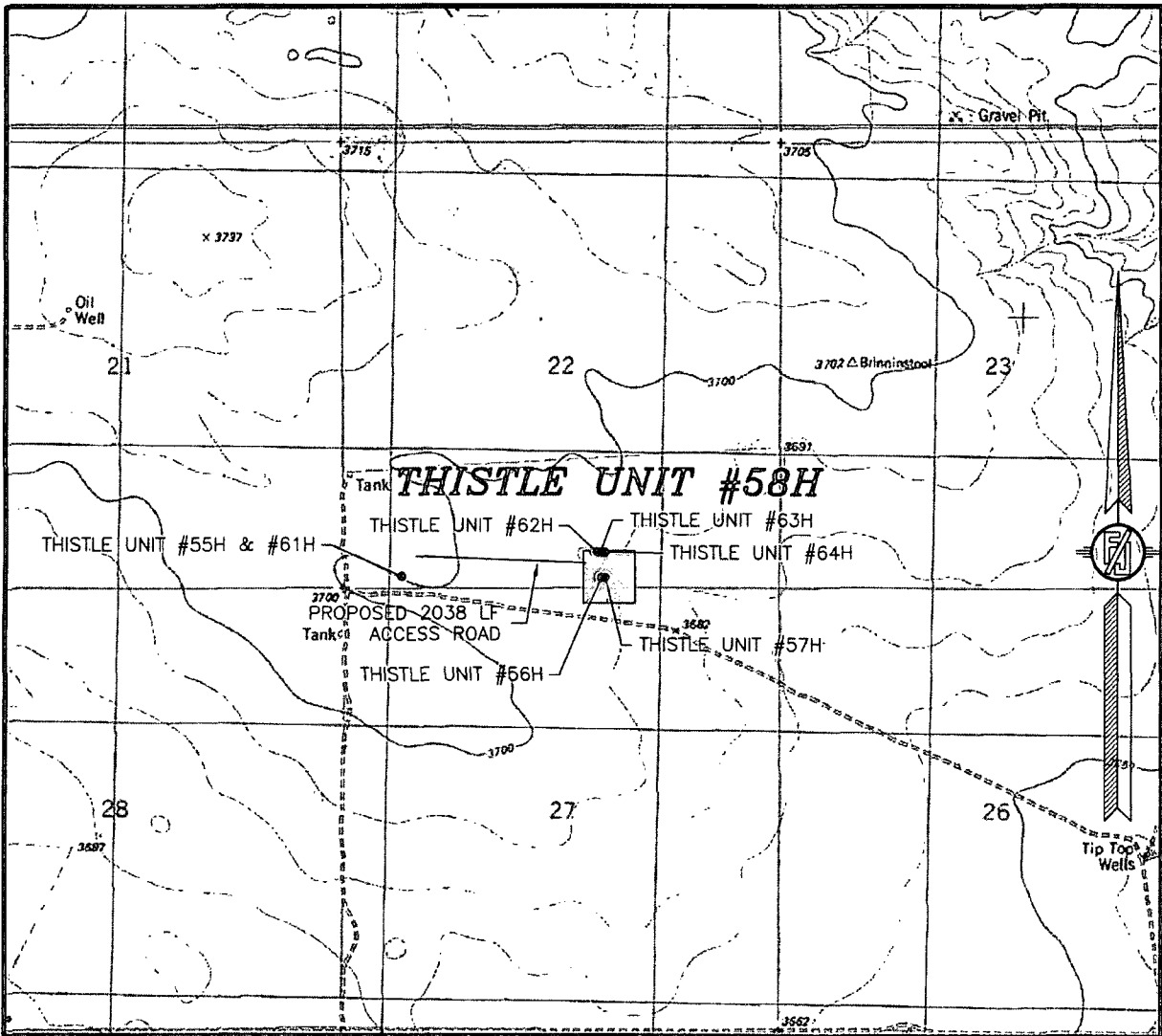
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

SURVEY NO. 2111

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 #58H

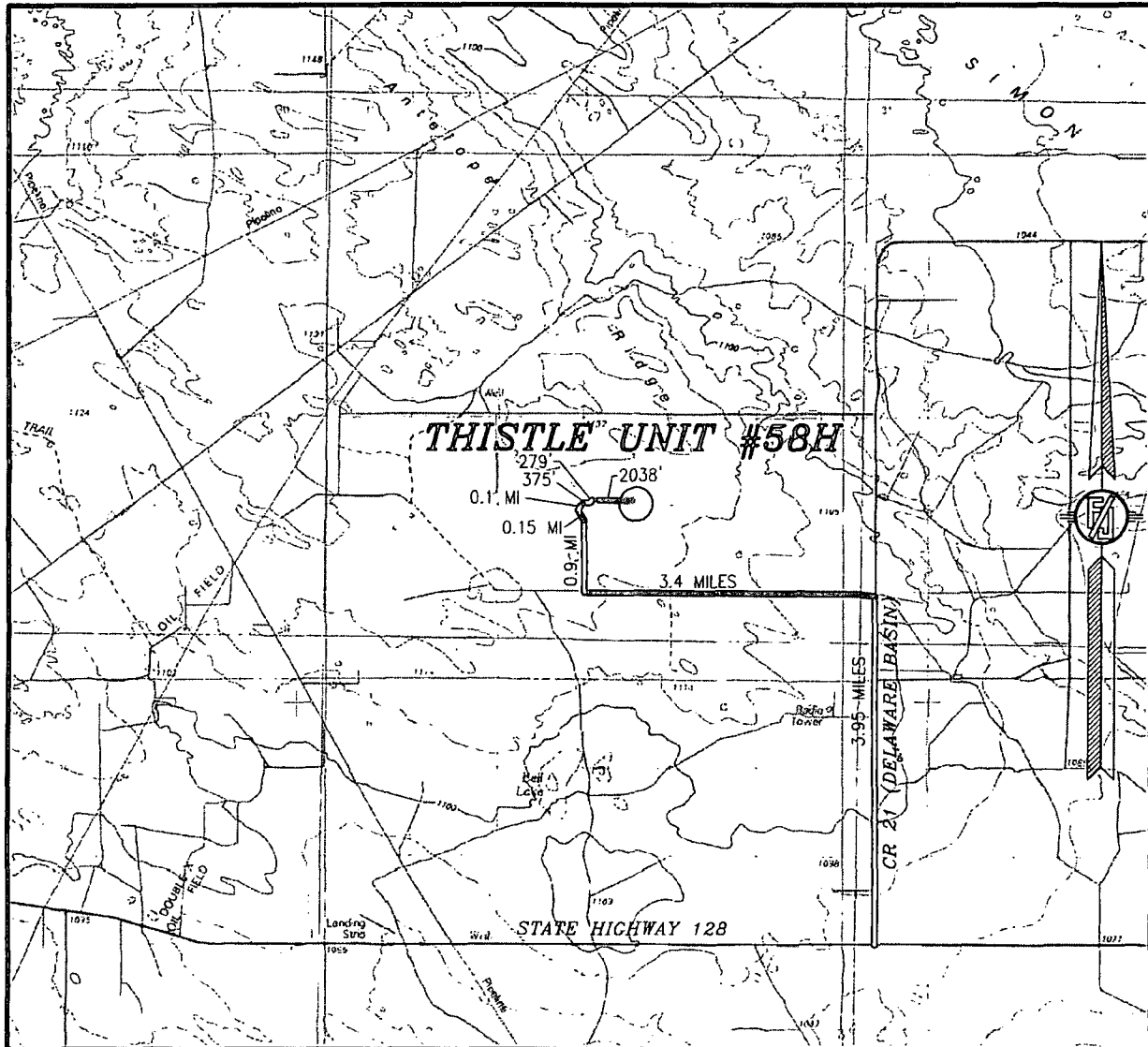
LOCATED 150 FT. FROM THE SOUTH LINE
AND 2100 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

JULY 31, 2013

SURVEY NO. 2111

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
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

THISTLE UNIT #58H

LOCATED 150 FT. FROM THE SOUTH LINE
AND 2100 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

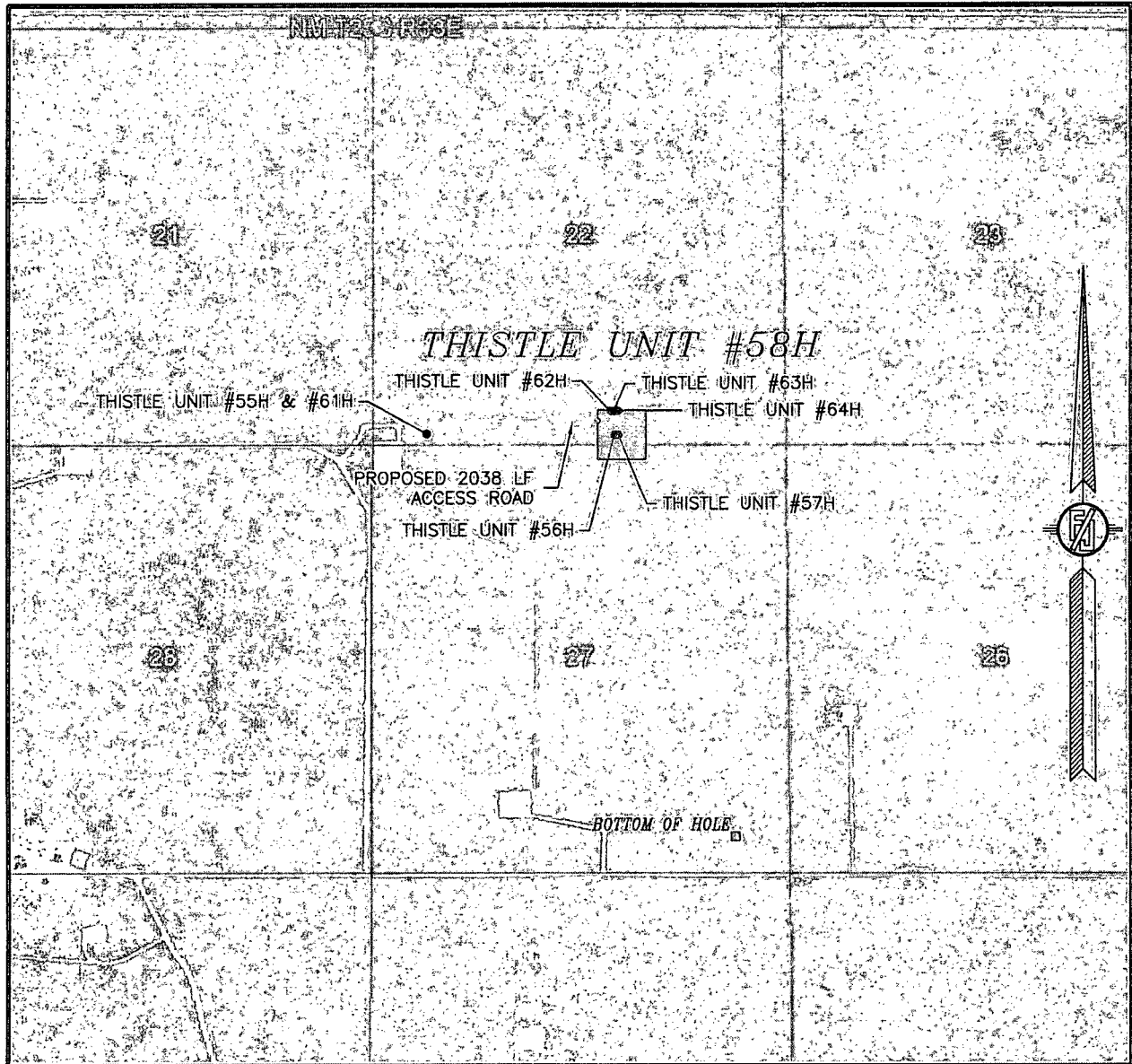
DIRECTIONS TO LOCATION

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. 2111

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 #58H

LOCATED 150 FT. FROM THE SOUTH LINE
AND 2100 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. 2111

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



Devon Energy

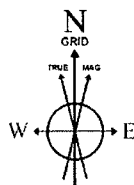
Location: Lea County, NM
Field: (Thistle) Sec 22, T23S, R33E
Facility: Thistle Unit No.56H & No.57H & No.58H

Slot: No.58H SHL
Well: No.58H
Wellbore: No.58H PWB

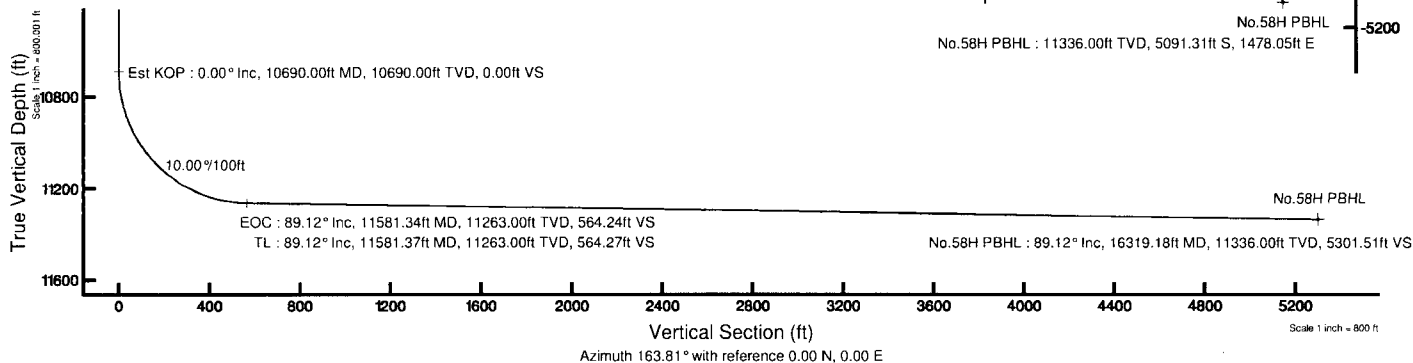
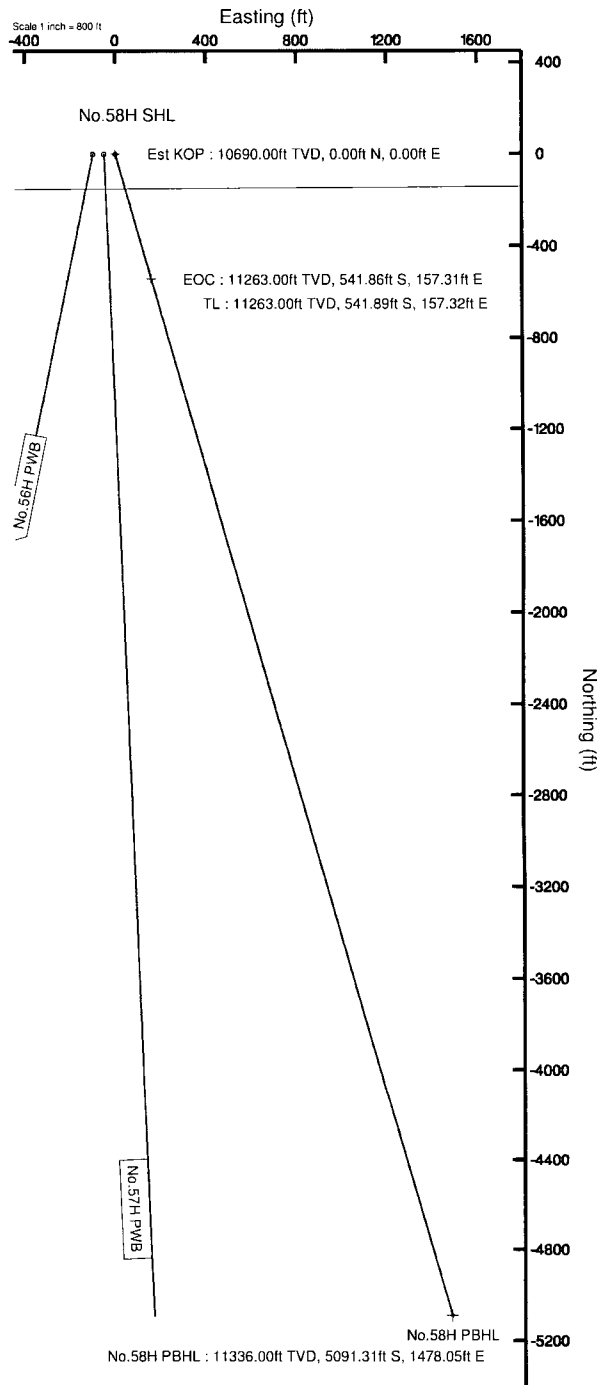


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°100ft)	VS (ft)
Tie On	25.00	0.000	163.811	25.00	0.00	0.00	0.00	0.00
Est KOP	10690.00	0.000	163.811	10690.00	0.00	0.00	0.00	0.00
EOC	11581.34	89.117	163.811	11263.00	-541.86	157.31	10.00	564.24
TL	11581.37	89.117	163.812	11263.00	-541.89	157.32	2.00	564.27
No.58H PBHL	16319.18	89.117	163.812	11336.00	-5091.31	1478.05	0.00	5301.51

Plot reference wellbore is Rev-A.0	
True vertical depths are referenced to Rig on No.58H SHL (KB)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.58H SHL (KB)	North Reference: Grid north
Rig on No.58H SHL (KB) to Mean Sea Level: 3714 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No.58H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentry on 08/12/2013



BGGM (1945.0 to 2015.0) Dip: 60.18° Field: 48426.1 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
Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.58H SHL
Area	Lea County, NM	Well	No.58H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.58H 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 9:48:20 AM
Convergence at slot	0.41° East	Database/Source file	WA Midland/No.58H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.52	99.97	780775.05	467727.20	32°17'00.525"N	103°33'30.749"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.58H SHL (KB) to Facility Vertical Datum	3714.00ft
Horizontal Reference Pt	Slot	Rig on No.58H SHL (KB) to Mean Sea Level	3714.00ft
Vertical Reference Pt	Rig on No.58H SHL (KB)	Rig on No.58H SHL (KB) to Mud Line at Slot (No.58H SHL)	3714.00ft
MD Reference Pt	Rig on No.58H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	163.81°



Planned Wellpath Report

Rev-A.0
Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.58H SHL
Area	Lea County, NM	Well	No.58H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.58H 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	163.811	0.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
25.00	0.000	163.811	25.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Tie On
125.00†	0.000	163.811	125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
225.00†	0.000	163.811	225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
325.00†	0.000	163.811	325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
425.00†	0.000	163.811	425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
525.00†	0.000	163.811	525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
625.00†	0.000	163.811	625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
725.00†	0.000	163.811	725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
825.00†	0.000	163.811	825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
925.00†	0.000	163.811	925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1025.00†	0.000	163.811	1025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1125.00†	0.000	163.811	1125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1225.00†	0.000	163.811	1225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1290.00†	0.000	163.811	1290.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Rustler
1325.00†	0.000	163.811	1325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1425.00†	0.000	163.811	1425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1525.00†	0.000	163.811	1525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1625.00†	0.000	163.811	1625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1725.00†	0.000	163.811	1725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1770.00†	0.000	163.811	1770.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Top Salt
1825.00†	0.000	163.811	1825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
1925.00†	0.000	163.811	1925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2025.00†	0.000	163.811	2025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2125.00†	0.000	163.811	2125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2225.00†	0.000	163.811	2225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2325.00†	0.000	163.811	2325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2425.00†	0.000	163.811	2425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2525.00†	0.000	163.811	2525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2625.00†	0.000	163.811	2625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2725.00†	0.000	163.811	2725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2825.00†	0.000	163.811	2825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
2925.00†	0.000	163.811	2925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3025.00†	0.000	163.811	3025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3125.00†	0.000	163.811	3125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3225.00†	0.000	163.811	3225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3325.00†	0.000	163.811	3325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3425.00†	0.000	163.811	3425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3525.00†	0.000	163.811	3525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3625.00†	0.000	163.811	3625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3725.00†	0.000	163.811	3725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3825.00†	0.000	163.811	3825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
3925.00†	0.000	163.811	3925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4025.00†	0.000	163.811	4025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4125.00†	0.000	163.811	4125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	



Planned Wellpath Report

Rev-A.0
Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.58H SHL
Area	Lea County, NM	Well	No.58H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.58H 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	163.811	4225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4325.00†	0.000	163.811	4325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4425.00†	0.000	163.811	4425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4525.00†	0.000	163.811	4525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4625.00†	0.000	163.811	4625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4725.00†	0.000	163.811	4725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4825.00†	0.000	163.811	4825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
4925.00†	0.000	163.811	4925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5025.00†	0.000	163.811	5025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5090.00†	0.000	163.811	5090.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Base Salt
5125.00†	0.000	163.811	5125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5190.00†	0.000	163.811	5190.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Delaware
5225.00†	0.000	163.811	5225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5325.00†	0.000	163.811	5325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5425.00†	0.000	163.811	5425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5525.00†	0.000	163.811	5525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5625.00†	0.000	163.811	5625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5725.00†	0.000	163.811	5725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5825.00†	0.000	163.811	5825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
5925.00†	0.000	163.811	5925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6025.00†	0.000	163.811	6025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6060.00†	0.000	163.811	6060.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Chery Canyon
6125.00†	0.000	163.811	6125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6225.00†	0.000	163.811	6225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6325.00†	0.000	163.811	6325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6425.00†	0.000	163.811	6425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6525.00†	0.000	163.811	6525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6625.00†	0.000	163.811	6625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6725.00†	0.000	163.811	6725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6825.00†	0.000	163.811	6825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
6925.00†	0.000	163.811	6925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7025.00†	0.000	163.811	7025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7125.00†	0.000	163.811	7125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7225.00†	0.000	163.811	7225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7325.00†	0.000	163.811	7325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7425.00†	0.000	163.811	7425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7525.00†	0.000	163.811	7525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7625.00†	0.000	163.811	7625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7640.00†	0.000	163.811	7640.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Brushy Canyon
7725.00†	0.000	163.811	7725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7825.00†	0.000	163.811	7825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
7925.00†	0.000	163.811	7925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8025.00†	0.000	163.811	8025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8125.00†	0.000	163.811	8125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8225.00†	0.000	163.811	8225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.58H SHL
Area	Lea County, NM	Well	No.58H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.58H 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	163.811	8325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8425.00†	0.000	163.811	8425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8525.00†	0.000	163.811	8525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8625.00†	0.000	163.811	8625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8725.00†	0.000	163.811	8725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8825.00†	0.000	163.811	8825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
8925.00†	0.000	163.811	8925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9025.00†	0.000	163.811	9025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9070.00†	0.000	163.811	9070.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Bone Spring Lime
9125.00†	0.000	163.811	9125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9225.00†	0.000	163.811	9225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9325.00†	0.000	163.811	9325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9425.00†	0.000	163.811	9425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9525.00†	0.000	163.811	9525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9625.00†	0.000	163.811	9625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9725.00†	0.000	163.811	9725.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9825.00†	0.000	163.811	9825.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
9925.00†	0.000	163.811	9925.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10025.00†	0.000	163.811	10025.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10065.00†	0.000	163.811	10065.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	1st Bone Spring Sand
10125.00†	0.000	163.811	10125.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10225.00†	0.000	163.811	10225.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10325.00†	0.000	163.811	10325.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10425.00†	0.000	163.811	10425.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10525.00†	0.000	163.811	10525.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10625.00†	0.000	163.811	10625.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	
10690.00	0.000	163.811	10690.00	0.00	0.00	0.00	780775.05	467727.20	32°17'00.525"N	103°33'30.749"W	0.00	Est KOP
10725.00†	3.499	163.811	10724.98	1.07	-1.03	0.30	780775.35	467726.17	32°17'00.515"N	103°33'30.745"W	10.00	
10770.26†	8.025	163.811	10770.00	5.61	-5.39	1.56	780776.61	467721.81	32°17'00.471"N	103°33'30.731"W	10.00	2nd Bone Spring Sand
10825.00†	13.497	163.811	10823.75	15.83	-15.20	4.41	780779.46	467712.00	32°17'00.374"N	103°33'30.699"W	10.00	
10925.00†	23.495	163.811	10918.47	47.51	-45.63	13.25	780788.30	467681.57	32°17'00.072"N	103°33'30.598"W	10.00	
11025.00†	33.494	163.811	11006.24	95.16	-91.39	26.53	780801.58	467635.82	32°16'59.619"N	103°33'30.447"W	10.00	
11125.00†	43.492	163.811	11084.41	157.32	-151.08	43.86	780818.91	467576.12	32°16'59.027"N	103°33'30.250"W	10.00	
11225.00†	53.490	163.811	11150.60	232.11	-222.91	64.71	780839.76	467504.30	32°16'58.315"N	103°33'30.014"W	10.00	
11325.00†	63.488	163.811	11202.80	317.26	-304.68	88.45	780863.50	467422.53	32°16'57.504"N	103°33'29.744"W	10.00	
11425.00†	73.486	163.811	11239.43	410.17	-393.91	114.36	780889.41	467333.30	32°16'56.619"N	103°33'29.450"W	10.00	
11525.00†	83.484	163.811	11259.37	508.04	-487.89	141.64	780916.69	467239.32	32°16'55.687"N	103°33'29.140"W	10.00	
11581.34	89.117	163.811	11263.00	564.24	-541.86	157.31	780932.36	467185.35	32°16'55.152"N	103°33'28.962"W	10.00	EOC
11581.37	89.117	163.812	11263.00	564.27	-541.89	157.32	780932.37	467185.32	32°16'55.152"N	103°33'28.962"W	2.00	TL
11625.00†	89.117	163.812	11263.67	607.89	-583.79	169.48	780944.53	467143.43	32°16'54.736"N	103°33'28.824"W	0.00	
11725.00†	89.117	163.812	11265.21	707.88	-679.81	197.36	780972.40	467047.41	32°16'53.784"N	103°33'28.507"W	0.00	
11825.00†	89.117	163.812	11266.75	807.87	-775.83	225.24	781000.28	466951.39	32°16'52.832"N	103°33'28.190"W	0.00	
11925.00†	89.117	163.812	11268.30	907.85	-871.86	253.11	781028.16	466855.37	32°16'51.880"N	103°33'27.874"W	0.00	
12025.00†	89.117	163.812	11269.84	1007.84	-967.88	280.99	781056.03	466759.35	32°16'50.928"N	103°33'27.557"W	0.00	
12125.00†	89.117	163.812	11271.38	1107.83	-1063.90	308.87	781083.91	466663.33	32°16'49.976"N	103°33'27.241"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION

Operator	Devon Energy	Slot	No.58H SHL
Area	Lea County, NM	Well	No.58H
Field	(Thistle) Sec 22, T23S, R33E	Wellbore	No.58H 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†	89.117	163.812	11272.92	1207.82	-1159.93	336.74	781111.78	466567.30	32°16'49.023"N	103°33'26.924"W	0.00	
12325.00†	89.117	163.812	11274.46	1307.81	-1255.95	364.62	781139.66	466471.28	32°16'48.071"N	103°33'26.607"W	0.00	
12425.00†	89.117	163.812	11276.00	1407.80	-1351.97	392.49	781167.53	466375.26	32°16'47.119"N	103°33'26.291"W	0.00	
12525.00†	89.117	163.812	11277.54	1507.78	-1448.00	420.37	781195.41	466279.24	32°16'46.167"N	103°33'25.974"W	0.00	
12625.00†	89.117	163.812	11279.08	1607.77	-1544.02	448.25	781223.28	466183.22	32°16'45.215"N	103°33'25.658"W	0.00	
12725.00†	89.117	163.812	11280.62	1707.76	-1640.05	476.12	781251.16	466087.20	32°16'44.263"N	103°33'25.341"W	0.00	
12825.00†	89.117	163.812	11282.16	1807.75	-1736.07	504.00	781279.04	465991.18	32°16'43.311"N	103°33'25.024"W	0.00	
12925.00†	89.117	163.812	11283.70	1907.74	-1832.09	531.88	781306.91	465895.16	32°16'42.359"N	103°33'24.708"W	0.00	
13025.00†	89.117	163.812	11285.24	2007.72	-1928.12	559.75	781334.79	465799.14	32°16'41.406"N	103°33'24.391"W	0.00	
13125.00†	89.117	163.812	11286.78	2107.71	-2024.14	587.63	781362.66	465703.12	32°16'40.454"N	103°33'24.075"W	0.00	
13225.00†	89.117	163.812	11288.33	2207.70	-2120.16	615.51	781390.54	465607.09	32°16'39.502"N	103°33'23.758"W	0.00	
13325.00†	89.117	163.812	11289.87	2307.69	-2216.19	643.38	781418.41	465511.07	32°16'38.550"N	103°33'23.442"W	0.00	
13425.00†	89.117	163.812	11291.41	2407.68	-2312.21	671.26	781446.29	465415.05	32°16'37.598"N	103°33'23.125"W	0.00	
13525.00†	89.117	163.812	11292.95	2507.66	-2408.23	699.13	781474.17	465319.03	32°16'36.646"N	103°33'22.808"W	0.00	
13625.00†	89.117	163.812	11294.49	2607.65	-2504.26	727.01	781502.04	465223.01	32°16'35.694"N	103°33'22.492"W	0.00	
13725.00†	89.117	163.812	11296.03	2707.64	-2600.28	754.89	781529.92	465126.99	32°16'34.742"N	103°33'22.175"W	0.00	
13825.00†	89.117	163.812	11297.57	2807.63	-2696.31	782.76	781557.79	465030.97	32°16'33.789"N	103°33'21.859"W	0.00	
13925.00†	89.117	163.812	11299.11	2907.62	-2792.33	810.64	781585.67	464934.95	32°16'32.837"N	103°33'21.542"W	0.00	
14025.00†	89.117	163.812	11300.65	3007.61	-2888.35	838.52	781613.54	464838.93	32°16'31.885"N	103°33'21.225"W	0.00	
14125.00†	89.117	163.812	11302.19	3107.59	-2984.38	866.39	781641.42	464742.91	32°16'30.933"N	103°33'20.909"W	0.00	
14225.00†	89.117	163.812	11303.73	3207.58	-3080.40	894.27	781669.29	464646.88	32°16'29.981"N	103°33'20.592"W	0.00	
14325.00†	89.117	163.812	11305.27	3307.57	-3176.42	922.15	781697.17	464550.86	32°16'29.029"N	103°33'20.276"W	0.00	
14425.00†	89.117	163.812	11306.81	3407.56	-3272.45	950.02	781725.05	464454.84	32°16'28.077"N	103°33'19.959"W	0.00	
14525.00†	89.117	163.812	11308.36	3507.55	-3368.47	977.90	781752.92	464358.82	32°16'27.124"N	103°33'19.643"W	0.00	
14625.00†	89.117	163.812	11309.90	3607.53	-3464.49	1005.77	781780.80	464262.80	32°16'26.172"N	103°33'19.326"W	0.00	
14725.00†	89.117	163.812	11311.44	3707.52	-3560.52	1033.65	781808.67	464166.78	32°16'25.220"N	103°33'19.010"W	0.00	
14825.00†	89.117	163.812	11312.98	3807.51	-3656.54	1061.53	781836.55	464070.76	32°16'24.268"N	103°33'18.693"W	0.00	
14925.00†	89.117	163.812	11314.52	3907.50	-3752.56	1089.40	781864.42	463974.74	32°16'23.316"N	103°33'18.376"W	0.00	
15025.00†	89.117	163.812	11316.06	4007.49	-3848.59	1117.28	781892.30	463878.72	32°16'22.364"N	103°33'18.060"W	0.00	
15125.00†	89.117	163.812	11317.60	4107.47	-3944.61	1145.16	781920.17	463782.70	32°16'21.412"N	103°33'17.743"W	0.00	
15225.00†	89.117	163.812	11319.14	4207.46	-4040.64	1173.03	781948.05	463686.67	32°16'20.459"N	103°33'17.427"W	0.00	
15325.00†	89.117	163.812	11320.68	4307.45	-4136.66	1200.91	781975.93	463590.65	32°16'19.507"N	103°33'17.110"W	0.00	
15425.00†	89.117	163.812	11322.22	4407.44	-4232.68	1228.78	782003.80	463494.63	32°16'18.555"N	103°33'16.794"W	0.00	
15525.00†	89.117	163.812	11323.76	4507.43	-4328.71	1256.66	782031.68	463398.61	32°16'17.603"N	103°33'16.477"W	0.00	
15625.00†	89.117	163.812	11325.30	4607.42	-4424.73	1284.54	782059.55	463302.59	32°16'16.651"N	103°33'16.161"W	0.00	
15725.00†	89.117	163.812	11326.84	4707.40	-4520.75	1312.41	782087.43	463206.57	32°16'15.699"N	103°33'15.844"W	0.00	
15825.00†	89.117	163.812	11328.39	4807.39	-4616.78	1340.29	782115.30	463110.55	32°16'14.747"N	103°33'15.528"W	0.00	
15925.00†	89.117	163.812	11329.93	4907.38	-4712.80	1368.17	782143.18	463014.53	32°16'13.795"N	103°33'15.211"W	0.00	
16025.00†	89.117	163.812	11331.47	5007.37	-4808.82	1396.04	782171.06	462918.51	32°16'12.842"N	103°33'14.894"W	0.00	
16125.00†	89.117	163.812	11333.01	5107.36	-4904.85	1423.92	782198.93	462822.49	32°16'11.890"N	103°33'14.578"W	0.00	
16225.00†	89.117	163.812	11334.55	5207.34	-5000.87	1451.80	782226.81	462726.46	32°16'10.938"N	103°33'14.261"W	0.00	
16319.18	89.117	163.812	11336.00†	5301.51	-5091.31	1478.05	782253.06	462636.03	32°16'10.041"N	103°33'13.963"W	0.00	No.58H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No.58H PBHL	16319.18	11336.00	-5091.31	1478.05	782253.06	462636.03	32°16'10.041"N	103°33'13.963"W	point

SURVEY PROGRAM - Ref Wellbore: No.58H PWB Ref Wellpath: Rev-A.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	16319.18	NaviTrak (Standard)		No.58H PWB