

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

HOEBS OCD

OIL CONSERVATION DIVISION

OCT 18 2013

1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Devon Energy Production Company, L.P.

3. Address of Operator
333 W. Sheridan Avenue, Oklahoma City, Oklahoma 73102-8260 (405) 552-7848

4. Well Location

Unit Letter O : 150 feet from the S line and 2200 feet from the E line
Section 22 Township 23S Range 33E NMPM Lea County New Mexico

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3691.9'

WELL API NO.

30-025-41340

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

THISTLE UNIT

8. Well Number 56H

9. OGRID Number

6137

10. Pool name or Wildcat

TRIPLE X; BONE SPRING

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon respectfully requests to change the bottom hole location for the Thistle Unit 56H as follows:

Old BHL: Unit N, section 27, Township 23S, Range 33E, 330 FSL & 1980 FWL

New BHL: Unit O, section 27, Township 23S, Range 33E, 330 FSL & 1980 FEL

As a result of this change, the projected TD will be 16,175'.

Attached are revised copies of the C-102, Drilling Plan & Directional Survey, which support these changes.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE Regulatory Specialist DATE 10/17/2013

Type or print name David H. Cook E-mail address: david.cook@dvn.com PHONE: (405) 552-7848

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE OCT 22 2013
Conditions of Approval (if any):

OCT 22 2013

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
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
HOEBS OGD 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 3691.9

¹⁰ Surface Location

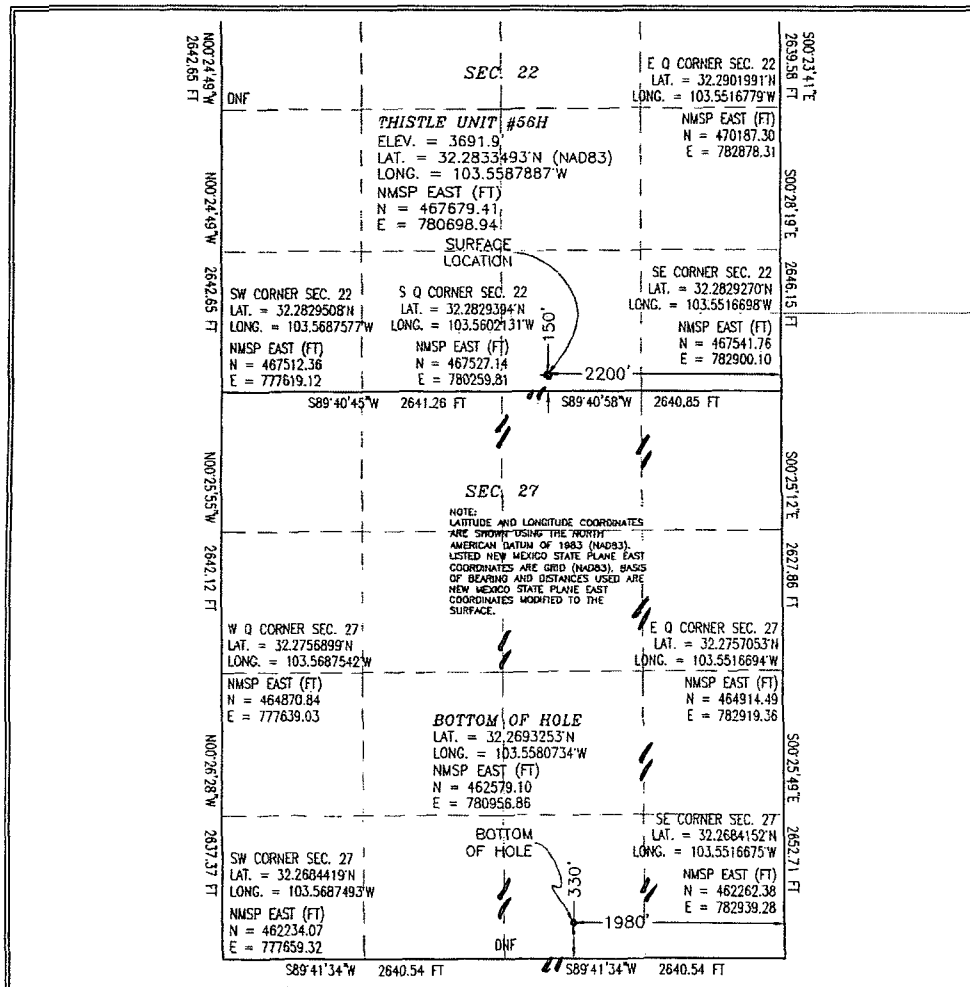
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	22	23 S	33 E		150	SOUTH	2200	EAST	LEA

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
O	27	23 S	33 E		330	SOUTH	1980	EAST	LEA

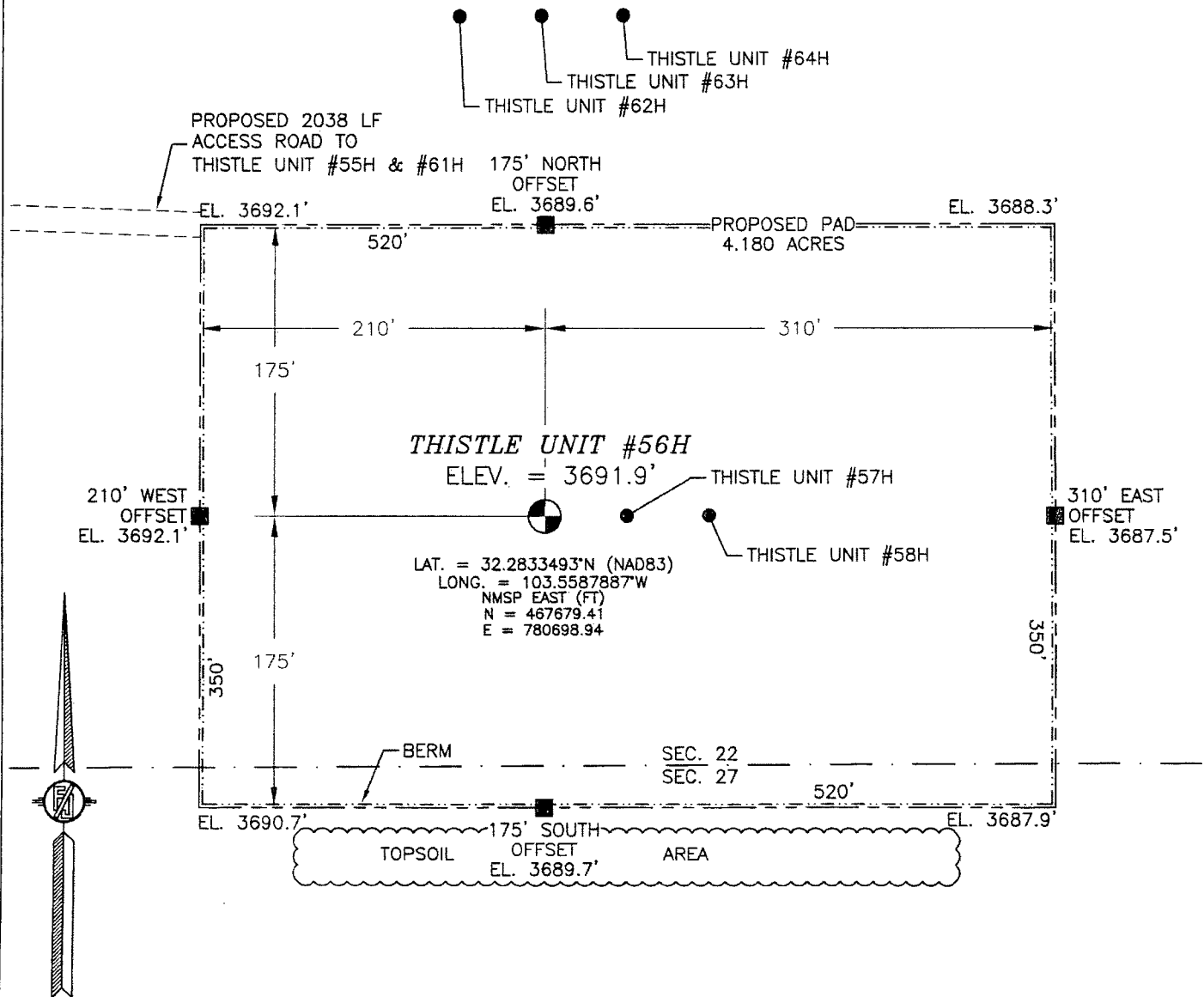
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	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. Signature: <i>[Signature]</i> Date: 10/17/2013 David H. Cook Regulatory Specialist Printed Name david.cook@dv.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. OCTOBER 17, 2013 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: FELIMON F. JARAMILLO, PLS 12797 SURVEY NO. 2109B

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

OCTOBER 17, 2013

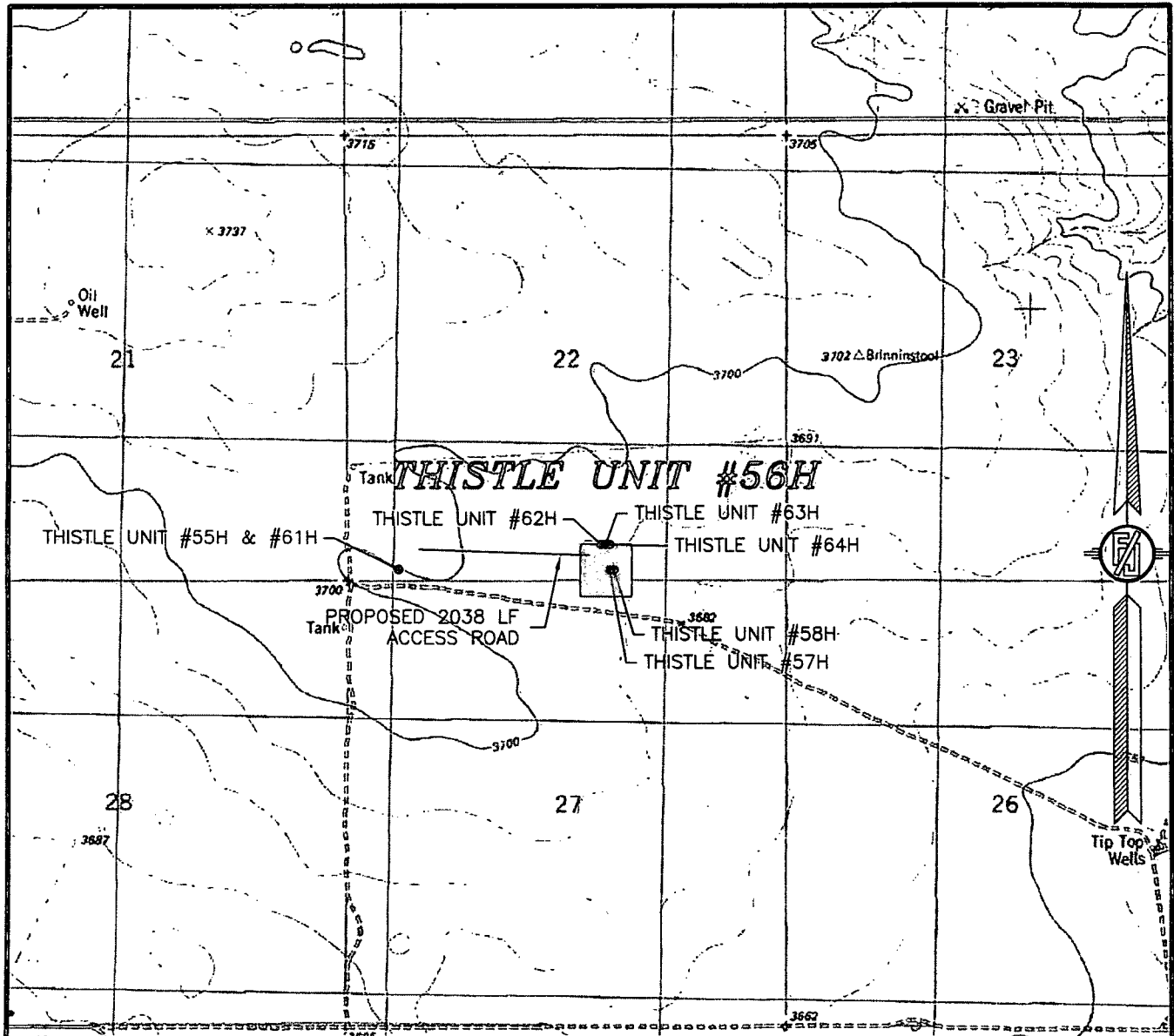
SURVEY NO. 2109B

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

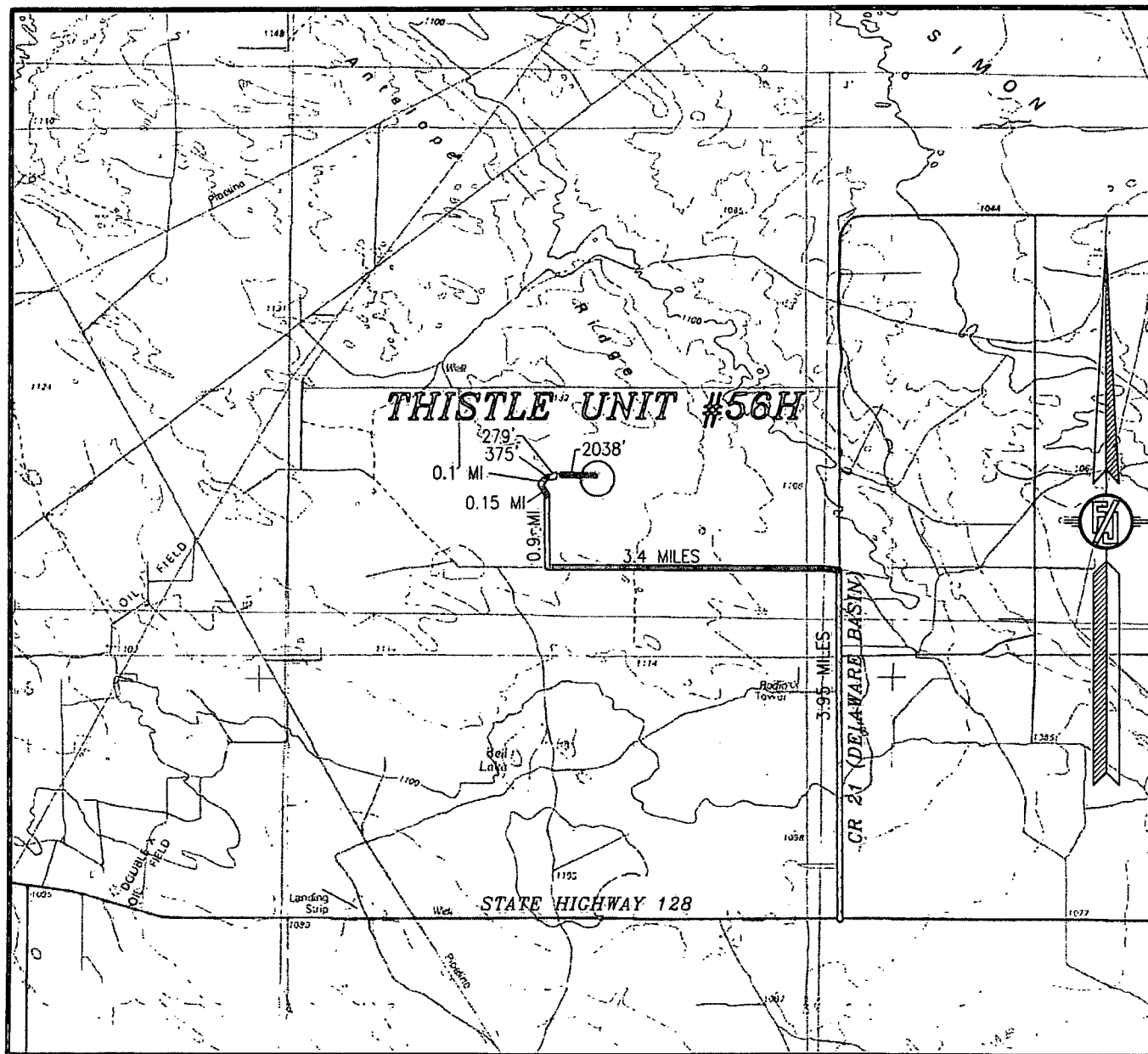
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AND 2200 FT. FROM THE EAST LINE OF
SECTION 22, TOWNSHIP 23 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 17, 2013

SURVEY NO. 2109B

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 #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

OCTOBER 17, 2013

DIRECTIONS TO LOCATION

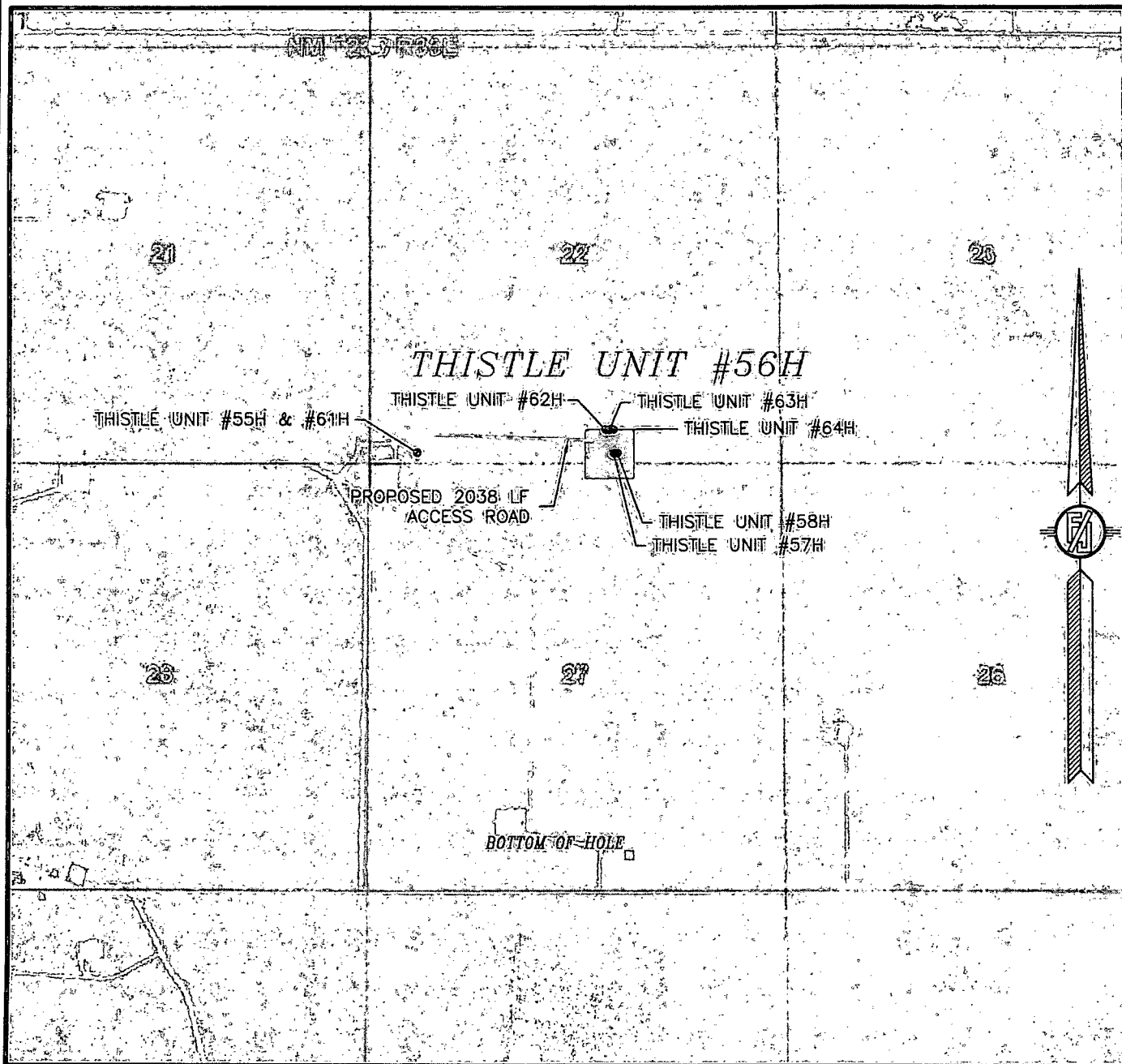
FROM STATE HIGHWAY 128 AND CR 21 (DELAWARE BASIN) GO NORTH ON CR 21 3.95 MILES, TURN LEFT ON PAVED ROAD (XL ROAD) AND GO WEST 3.4 MILES, TURN RIGHT ON CALICHE ROAD AND GO NORTH 0.9 MILES, BEND LEFT AND GO NORTHWEST 0.15 MILES, BEND RIGHT AND GO NORTHEAST 0.1 MILES, BEND RIGHT AND GO EAST 375' TO A PROPOSED 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. 2109B

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

OCTOBER 17, 2013

SURVEY NO. 2109B

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

Drilling Program / Surface Use Plan

Thistle Unit 56H

Rev. 1 10-17-2013. Revised the TD MD of the well to account for the new BHL.

1. Casing and Cementing Plan Summary

The surface fresh water sands will be protected by setting 13-3/8" casing at 1,350' and circulating cement back to surface. The fresh water sands will be protected by setting 9-5/8" casing at 5,150' and circulating cement to surface. The Delaware intervals will be isolated by setting 5-1/2" casing to total depth and circulating cement above the base of the 9-5/8" casing. All casing is new and API approved.

2. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight	Collar	Grade
17-1/2"	0' – 1,350'	13-3/8"	0' – 1,350'	54.5#	BTC	J-55
12-1/4"	1,350' – 5,150'	9-5/8"	0' – 5,150'	40#	BTC	HCK -55
8-3/4"	5,150' – 10,550'	5-1/2"	0' – 10,550'	17#	LTC	HCP-110
8-3/4"	10,550' – 16,175'	5-1/2"	10,550' – 16,175'	17#	BTC	HCP-110

3. Design Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13-3/8"	1.66	4.01	12.35
9-5/8"	1.58	1.47	4.50
5-1/2" LTC	1.70	2.11	2.48
5-1/2" BTC	1.58	1.96	5.88

Drilling Program / Surface Use Plan

Thistle Unit 56H

Rev. 1 10-17-2013. Revised the TD MD of the well to account for the new BHL.

4. Cement Program:

String	Slurry	Amount and Type of Cement
Surface	Lead	680 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water, 13.5 ppg, 1.75 cf/sk
	Tail	550 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg, 1.34 cf/sk
9-5/8" Intermediate	Lead	1100 sacks (65:35) Class C Cement:Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water, 12.9 ppg, 1.85 cf/sk
	Tail	430 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg, 1.33 cf/sk
Production	Lead # 1	490 sacks (50:50) Class H Cement:Poz (Fly Ash) + 10% BWOC Bentonite + 0.15% SA-1015 + 0.1% BWOC HR-601 + 0.25 lb/sk D-Air 5000 + 80.01 % Fresh Water, 11.5 ppg, 2.57 cf/sk
	Lead # 2	330 sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water, 12.5 ppg, 1.96 cf/sk
	Tail	1450 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg, 1.21 cf/sk
	Contingency Plan For loss of Circulation	
	1 st STAGE	
	Lead	580 sacks (50:50) Class H Cement:Poz (Fly Ash) + 10% BWOC Bentonite + 0.15% SA-1015 + 0.1% BWOC HR-601 + 0.25 lb/sk D-Air 5000 + 80.01 % Fresh Water, 11.5 ppg, 2.57 cf/sk
	Tail	1450 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg, 1.21 cf/sk
	2 nd STAGE (DV tool @ 6000 ft)	
	Lead	130 sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water, 12.5 ppg, 1.96 cf/sk
	Tail	120 sacks Class C Cement + 63.9% Fresh Water, 14.8 ppg, 1.33 cf/sk

- The above cement volumes based on at least Surface 100% excess, Intermediate 75% excess and Production is 25% excess. Actual cement volumes to be adjusted based on fluid caliper and/or caliper log data.
- If lost circulation is encountered while drilling the production wellbore, a DV tool and ECP will be installed a minimum of 50' below the previous casing shoe and a maximum of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

String	TOC
13-3/8" Intermediate	Surface
9-5/8" Intermediate	Surface
5-1/2" Production	4,650' (~500 ft inside of 9-5/8" Casing Shoe)

Drilling Program / Surface Use Plan

Thistle Unit 56H

Rev. 1 10-17-2013. Revised the TD MD of the well to account for the new BHL.

5. Pressure Control Equipment

The BOP system used to drill the **17-1/2"** hole will consist of a **20" 2M Annular preventer**. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a **2M system** prior to drilling out the casing shoe.

The BOP system used to drill the **12-1/4"** and **8-3/4"** holes will consist of a **13-5/8" 3M Double Ram and Annular preventer**. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a **3M system** prior to drilling out the casing shoe.

The pipe rams will be operated and checked as per Onshore Order No 2. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at **3,000 psi WP**.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

6. Proposed Mud Circulation System:

Depth Range	Mud Weight	Viscosity	Fluid Loss	Type System
0 – 1,350'	8.5 – 8.7	35 – 45	NC	Fresh Water
1,350' – 5,150'	9.8 – 10	29 – 36	NC	Brine
5,150' – 10,550'	8.4 – 8.8	29 – 36	<100	Cut Brine
10,550' – 16,175'	8.6 – 9.0	29 – 36	<100	Cut Brine

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 13-3/8" casing shoe until the 5-1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13-3/8" shoe until total depth is reached.

8. Potential Hazards:

No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP of 3,600 psi and estimated BHT 145°. No H2S is anticipated to be encountered.

9. Anticipated Starting Date and Duration of Operations:

- Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as a rig becomes available following BLM approval. Move in operations and drilling is expected to take 32 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

Drilling Program / Surface Use Plan

Thistle Unit 56H

Rev. 1 10-17-2013. Revised the TD MD of the well to account for the new BHL.

10. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in the C-102. On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

11. Methods of Handling Waste Material:

- a. Drill cuttings will be disposed of in a closed loop system.
- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier will pick up salts remaining, including broken sacks, after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be sent to a closed loop system.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM
 - iv. Jims Water Service of Co Inc, Denver CO



Devon Energy

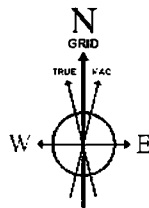
Location: Lea County, NM
Field: (Thistle) Sec 22, T23S, R33E
Facility: Thistle Unit No.56H & No.57H & No.58H

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

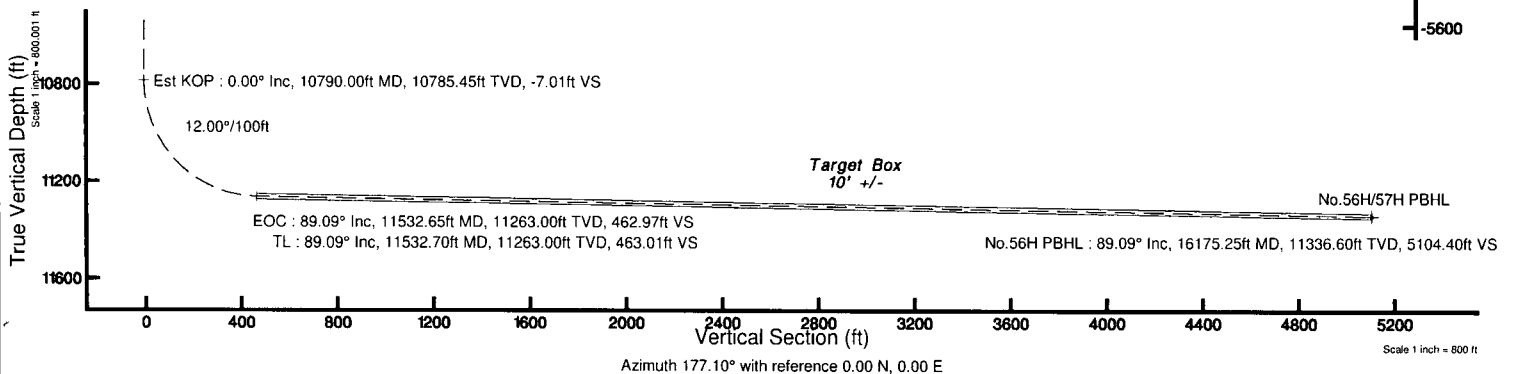


Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2189.00	7.780	80.090	2185.65	6.56	54.62	0.00	-3.79
End of Drop	2578.00	0.000	178.009	2573.45	11.10	80.60	2.00	-7.01
Est KOP	10790.00	0.000	178.009	10785.45	11.10	80.60	0.00	-7.01
EOC	11532.65	89.092	178.009	11263.00	-458.65	96.93	12.00	462.97
TL	11532.70	89.092	178.008	11263.00	-458.70	96.93	2.00	463.01
No.56H PBHL	16175.25	89.092	178.008	11336.60	-5097.86	258.27	0.00	5104.40

Plot reference wellpath is Rev-D.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 10/16/2013



BGGM (1945.0 to 2015.0) Dip: 60.18° Field: 48426 nT
Magnetic North is 7.42 degrees East of True North (at 8/12/2013)
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



Rev-D.0



Planned Wellpath Report

Rev-D.0
Page 1 of 5



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® 4.0.1
North Reference	Grid	User	Gentbry
Scale	0.999975	Report Generated	10/16/2013 at 2:17:45 PM
Convergence at slot	0.41° East	Database/Source file	MidlandDB/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	177.10°



Planned Wellpath Report

Rev-D.0
Page 2 of 5



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	272.860	0.00	0.00	0.00	0.00	780675.08	467726.68	32°17'00.527"N	103°33'31.913"W	0.00	
82.90	0.360	272.860	82.90	-0.03	0.01	-0.26	780674.82	467726.69	32°17'00.527"N	103°33'31.916"W	0.43	
171.90	0.450	281.880	171.90	-0.14	0.10	-0.88	780674.20	467726.78	32°17'00.528"N	103°33'31.923"W	0.12	
260.40	0.490	288.020	260.39	-0.37	0.29	-1.58	780673.50	467726.97	32°17'00.530"N	103°33'31.932"W	0.07	
349.90	0.510	297.730	349.89	-0.71	0.59	-2.30	780672.78	467727.27	32°17'00.533"N	103°33'31.940"W	0.10	
444.60	0.470	293.140	444.59	-1.09	0.94	-3.03	780672.05	467727.62	32°17'00.536"N	103°33'31.948"W	0.06	
532.30	0.490	293.540	532.28	-1.42	1.23	-3.70	780671.38	467727.91	32°17'00.539"N	103°33'31.956"W	0.02	
627.50	0.490	308.820	627.48	-1.87	1.65	-4.39	780670.69	467728.33	32°17'00.543"N	103°33'31.964"W	0.14	
719.20	0.440	294.080	719.18	-2.29	2.04	-5.02	780670.06	467728.72	32°17'00.547"N	103°33'31.971"W	0.14	
813.50	0.290	290.500	813.48	-2.55	2.27	-5.57	780669.51	467728.95	32°17'00.550"N	103°33'31.978"W	0.16	
907.80	0.240	292.980	907.77	-2.73	2.43	-5.98	780669.10	467729.11	32°17'00.551"N	103°33'31.983"W	0.05	
1002.20	0.190	303.200	1002.17	-2.91	2.59	-6.29	780668.79	467729.27	32°17'00.553"N	103°33'31.986"W	0.07	
1096.40	0.180	303.350	1096.37	-3.09	2.76	-6.55	780668.53	467729.44	32°17'00.555"N	103°33'31.989"W	0.01	
1191.10	0.220	322.020	1191.07	-3.32	2.99	-6.78	780668.30	467729.67	32°17'00.557"N	103°33'31.992"W	0.08	
1254.00	0.220	319.920	1253.97	-3.52	3.17	-6.93	780668.15	467729.85	32°17'00.559"N	103°33'31.994"W	0.01	
1290.03†	0.223	324.978	1290.00	-3.63	3.28	-7.02	780668.06	467729.96	32°17'00.560"N	103°33'31.995"W	0.05	Rustler
1470.00	0.260	346.860	1469.97	-4.33	3.97	-7.31	780667.77	467730.65	32°17'00.567"N	103°33'31.998"W	0.05	
1564.00	1.210	84.320	1563.96	-4.59	4.27	-6.37	780668.71	467730.95	32°17'00.570"N	103°33'31.987"W	1.35	
1658.00	3.280	86.230	1657.89	-4.68	4.55	-2.70	780672.38	467731.23	32°17'00.572"N	103°33'31.944"W	2.20	
1752.00	5.500	90.930	1751.61	-4.42	4.65	4.49	780679.57	467731.33	32°17'00.573"N	103°33'31.861"W	2.39	
1770.48†	5.619	91.453	1770.00	-4.29	4.61	6.28	780681.36	467731.29	32°17'00.572"N	103°33'31.840"W	0.70	Top Salt
1846.00	6.110	93.380	1845.12	-3.57	4.28	13.98	780689.06	467730.96	32°17'00.568"N	103°33'31.750"W	0.70	
1940.00	5.970	95.400	1938.60	-2.32	3.53	23.84	780698.92	467730.21	32°17'00.560"N	103°33'31.635"W	0.27	
2034.00	7.060	85.110	2032.00	-1.81	3.56	34.47	780709.55	467730.24	32°17'00.560"N	103°33'31.511"W	1.69	
2129.00	7.780	80.090	2126.20	-2.80	5.17	46.62	780721.70	467731.85	32°17'00.575"N	103°33'31.370"W	1.02	
2189.00	7.780	80.090	2185.65	-3.79	6.56	54.62	780729.70	467733.24	32°17'00.588"N	103°33'31.276"W	0.00	Tie On
2289.00†	5.780	80.090	2284.94	-5.23	8.60	66.25	780741.33	467735.27	32°17'00.607"N	103°33'31.141"W	2.00	
2389.00†	3.780	80.090	2384.59	-6.25	10.03	74.46	780749.53	467736.71	32°17'00.621"N	103°33'31.045"W	2.00	
2489.00†	1.780	80.090	2484.47	-6.84	10.86	79.23	780754.31	467737.54	32°17'00.629"N	103°33'30.989"W	2.00	
2578.00	0.000	178.009	2573.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	2.00	End of Drop
2589.00†	0.000	178.009	2584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
2689.00†	0.000	178.009	2684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
2789.00†	0.000	178.009	2784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
2889.00†	0.000	178.009	2884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
2989.00†	0.000	178.009	2984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3089.00†	0.000	178.009	3084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3189.00†	0.000	178.009	3184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3289.00†	0.000	178.009	3284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3389.00†	0.000	178.009	3384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3489.00†	0.000	178.009	3484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3589.00†	0.000	178.009	3584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3689.00†	0.000	178.009	3684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3789.00†	0.000	178.009	3784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3889.00†	0.000	178.009	3884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
3989.00†	0.000	178.009	3984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"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
4089.00†	0.000	178.009	4084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4189.00†	0.000	178.009	4184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4289.00†	0.000	178.009	4284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4389.00†	0.000	178.009	4384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4489.00†	0.000	178.009	4484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4589.00†	0.000	178.009	4584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4689.00†	0.000	178.009	4684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4789.00†	0.000	178.009	4784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4889.00†	0.000	178.009	4884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
4989.00†	0.000	178.009	4984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5089.00†	0.000	178.009	5084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5094.55†	0.000	178.009	5090.00	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	Base Salt
5189.00†	0.000	178.009	5184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5194.55†	0.000	178.009	5190.00	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	Delaware
5289.00†	0.000	178.009	5284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5389.00†	0.000	178.009	5384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5489.00†	0.000	178.009	5484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5589.00†	0.000	178.009	5584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5689.00†	0.000	178.009	5684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5789.00†	0.000	178.009	5784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5889.00†	0.000	178.009	5884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
5989.00†	0.000	178.009	5984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6064.55†	0.000	178.009	6060.00	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	Cherry Canyon
6089.00†	0.000	178.009	6084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6189.00†	0.000	178.009	6184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6289.00†	0.000	178.009	6284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6389.00†	0.000	178.009	6384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6489.00†	0.000	178.009	6484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6589.00†	0.000	178.009	6584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6689.00†	0.000	178.009	6684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6789.00†	0.000	178.009	6784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6889.00†	0.000	178.009	6884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
6989.00†	0.000	178.009	6984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7089.00†	0.000	178.009	7084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7189.00†	0.000	178.009	7184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7289.00†	0.000	178.009	7284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7389.00†	0.000	178.009	7384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7489.00†	0.000	178.009	7484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7589.00†	0.000	178.009	7584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7644.55†	0.000	178.009	7640.00	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	Brushy Canyon
7689.00†	0.000	178.009	7684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7789.00†	0.000	178.009	7784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7889.00†	0.000	178.009	7884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
7989.00†	0.000	178.009	7984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8089.00†	0.000	178.009	8084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"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
8189.00†	0.000	178.009	8184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8289.00†	0.000	178.009	8284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8389.00†	0.000	178.009	8384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8489.00†	0.000	178.009	8484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8589.00†	0.000	178.009	8584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8689.00†	0.000	178.009	8684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8789.00†	0.000	178.009	8784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8889.00†	0.000	178.009	8884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
8989.00†	0.000	178.009	8984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9074.55†	0.000	178.009	9070.00	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	Bone Spring Lime
9089.00†	0.000	178.009	9084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9189.00†	0.000	178.009	9184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9289.00†	0.000	178.009	9284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9389.00†	0.000	178.009	9384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9489.00†	0.000	178.009	9484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9589.00†	0.000	178.009	9584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9689.00†	0.000	178.009	9684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9789.00†	0.000	178.009	9784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9889.00†	0.000	178.009	9884.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
9989.00†	0.000	178.009	9984.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10069.55†	0.000	178.009	10065.00	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	1st Bone Spring Sand
10089.00†	0.000	178.009	10084.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10189.00†	0.000	178.009	10184.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10289.00†	0.000	178.009	10284.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10389.00†	0.000	178.009	10384.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10489.00†	0.000	178.009	10484.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10589.00†	0.000	178.009	10584.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10689.00†	0.000	178.009	10684.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10774.55†	0.000	178.009	10770.00	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	2nd Bone Spring Sand
10789.00†	0.000	178.009	10784.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	
10790.00	0.000	178.009	10785.45	-7.01	11.10	80.60	780755.67	467737.78	32°17'00.631"N	103°33'30.973"W	0.00	Est KOP
10889.00†	11.876	178.009	10883.75	3.21	0.88	80.95	780756.03	467727.56	32°17'00.530"N	103°33'30.970"W	12.00	
10989.00†	23.873	178.009	10978.75	33.85	-29.73	82.02	780757.09	467696.95	32°17'00.227"N	103°33'30.960"W	12.00	
11089.00†	35.869	178.009	11065.30	83.55	-79.42	83.74	780758.82	467647.26	32°16'59.735"N	103°33'30.944"W	12.00	
11189.00†	47.866	178.009	11139.64	150.17	-146.00	86.06	780761.14	467580.69	32°16'59.076"N	103°33'30.923"W	12.00	
11289.00†	59.862	178.009	11198.50	230.77	-226.56	88.86	780763.94	467500.12	32°16'58.279"N	103°33'30.897"W	12.00	
11389.00†	71.859	178.009	11239.32	321.85	-317.60	92.02	780767.10	467409.09	32°16'57.378"N	103°33'30.868"W	12.00	
11489.00†	83.855	178.009	11260.32	419.42	-415.12	95.41	780770.49	467311.57	32°16'56.412"N	103°33'30.837"W	12.00	
11532.65	89.092	178.009	11263.00	462.97	-458.65	96.93	780772.00	467268.04	32°16'55.982"N	103°33'30.823"W	12.00	EOC
11532.70	89.092	178.008	11263.00	463.01	-458.70	96.93	780772.01	467268.00	32°16'55.981"N	103°33'30.823"W	2.00	TL
11589.00†	89.092	178.008	11263.89	519.30	-514.96	98.88	780773.96	467211.74	32°16'55.424"N	103°33'30.805"W	0.00	
11689.00†	89.092	178.008	11265.48	619.28	-614.88	102.36	780777.44	467111.81	32°16'54.435"N	103°33'30.773"W	0.00	
11789.00†	89.092	178.008	11267.06	719.25	-714.81	105.84	780780.91	467011.89	32°16'53.446"N	103°33'30.741"W	0.00	
11889.00†	89.092	178.008	11268.65	819.23	-814.74	109.31	780784.39	466911.96	32°16'52.457"N	103°33'30.708"W	0.00	
11989.00†	89.092	178.008	11270.23	919.20	-914.67	112.79	780787.86	466812.04	32°16'51.468"N	103°33'30.676"W	0.00	



Planned Wellpath Report

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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
12089.00†	89.092	178.008	11271.82	1019.18	-1014.59	116.26	780791.34	466712.11	32°16'50.479"N	103°33'30.644"W	0.00	
12189.00†	89.092	178.008	11273.41	1119.15	-1114.52	119.74	780794.81	466612.19	32°16'49.490"N	103°33'30.612"W	0.00	
12289.00†	89.092	178.008	11274.99	1219.13	-1214.45	123.21	780798.29	466512.27	32°16'48.501"N	103°33'30.580"W	0.00	
12389.00†	89.092	178.008	11276.58	1319.10	-1314.37	126.69	780801.76	466412.34	32°16'47.512"N	103°33'30.548"W	0.00	
12489.00†	89.092	178.008	11278.16	1419.08	-1414.30	130.16	780805.24	466312.42	32°16'46.523"N	103°33'30.516"W	0.00	
12589.00†	89.092	178.008	11279.75	1519.05	-1514.23	133.64	780808.71	466212.49	32°16'45.534"N	103°33'30.484"W	0.00	
12689.00†	89.092	178.008	11281.33	1619.03	-1614.16	137.11	780812.19	466112.57	32°16'44.545"N	103°33'30.452"W	0.00	
12789.00†	89.092	178.008	11282.92	1719.00	-1714.08	140.59	780815.66	466012.64	32°16'43.556"N	103°33'30.420"W	0.00	
12889.00†	89.092	178.008	11284.50	1818.97	-1814.01	144.06	780819.14	465912.72	32°16'42.567"N	103°33'30.388"W	0.00	
12989.00†	89.092	178.008	11286.09	1918.95	-1913.94	147.54	780822.61	465812.80	32°16'41.578"N	103°33'30.356"W	0.00	
13089.00†	89.092	178.008	11287.67	2018.92	-2013.86	151.01	780826.09	465712.87	32°16'40.589"N	103°33'30.324"W	0.00	
13189.00†	89.092	178.008	11289.26	2118.90	-2113.79	154.49	780829.56	465612.95	32°16'39.600"N	103°33'30.292"W	0.00	
13289.00†	89.092	178.008	11290.84	2218.87	-2213.72	157.96	780833.04	465513.02	32°16'38.611"N	103°33'30.260"W	0.00	
13389.00†	89.092	178.008	11292.43	2318.85	-2313.64	161.44	780836.51	465413.10	32°16'37.622"N	103°33'30.227"W	0.00	
13489.00†	89.092	178.008	11294.01	2418.82	-2413.57	164.91	780839.99	465313.17	32°16'36.633"N	103°33'30.195"W	0.00	
13589.00†	89.092	178.008	11295.60	2518.80	-2513.50	168.39	780843.46	465213.25	32°16'35.644"N	103°33'30.163"W	0.00	
13689.00†	89.092	178.008	11297.19	2618.77	-2613.43	171.86	780846.94	465113.33	32°16'34.655"N	103°33'30.131"W	0.00	
13789.00†	89.092	178.008	11298.77	2718.75	-2713.35	175.34	780850.41	465013.40	32°16'33.666"N	103°33'30.099"W	0.00	
13889.00†	89.092	178.008	11300.36	2818.72	-2813.28	178.81	780853.89	464913.48	32°16'32.677"N	103°33'30.067"W	0.00	
13989.00†	89.092	178.008	11301.94	2918.70	-2913.21	182.29	780857.37	464813.55	32°16'31.688"N	103°33'30.035"W	0.00	
14089.00†	89.092	178.008	11303.53	3018.67	-3013.13	185.77	780860.84	464713.63	32°16'30.699"N	103°33'30.003"W	0.00	
14189.00†	89.092	178.008	11305.11	3118.65	-3113.06	189.24	780864.32	464613.70	32°16'29.710"N	103°33'29.971"W	0.00	
14289.00†	89.092	178.008	11306.70	3218.62	-3212.99	192.72	780867.79	464513.78	32°16'28.721"N	103°33'29.939"W	0.00	
14389.00†	89.092	178.008	11308.28	3318.60	-3312.91	196.19	780871.27	464413.86	32°16'27.732"N	103°33'29.907"W	0.00	
14489.00†	89.092	178.008	11309.87	3418.57	-3412.84	199.67	780874.74	464313.93	32°16'26.743"N	103°33'29.875"W	0.00	
14589.00†	89.092	178.008	11311.45	3518.55	-3512.77	203.14	780878.22	464214.01	32°16'25.754"N	103°33'29.843"W	0.00	
14689.00†	89.092	178.008	11313.04	3618.52	-3612.70	206.62	780881.69	464114.08	32°16'24.765"N	103°33'29.811"W	0.00	
14789.00†	89.092	178.008	11314.62	3718.50	-3712.62	210.09	780885.17	464014.16	32°16'23.776"N	103°33'29.778"W	0.00	
14889.00†	89.092	178.008	11316.21	3818.47	-3812.55	213.57	780888.64	463914.23	32°16'22.787"N	103°33'29.746"W	0.00	
14989.00†	89.092	178.008	11317.79	3918.45	-3912.48	217.04	780892.12	463814.31	32°16'21.798"N	103°33'29.714"W	0.00	
15089.00†	89.092	178.008	11319.38	4018.42	-4012.40	220.52	780895.59	463714.39	32°16'20.809"N	103°33'29.682"W	0.00	
15189.00†	89.092	178.008	11320.96	4118.40	-4112.33	223.99	780899.07	463614.46	32°16'19.820"N	103°33'29.650"W	0.00	
15289.00†	89.092	178.008	11322.55	4218.37	-4212.26	227.47	780902.54	463514.54	32°16'18.831"N	103°33'29.618"W	0.00	
15389.00†	89.092	178.008	11324.14	4318.35	-4312.18	230.94	780906.02	463414.61	32°16'17.842"N	103°33'29.586"W	0.00	
15489.00†	89.092	178.008	11325.72	4418.32	-4412.11	234.42	780909.49	463314.69	32°16'16.853"N	103°33'29.554"W	0.00	
15589.00†	89.092	178.008	11327.31	4518.30	-4512.04	237.89	780912.97	463214.76	32°16'15.864"N	103°33'29.522"W	0.00	
15689.00†	89.092	178.008	11328.89	4618.27	-4611.97	241.37	780916.44	463114.84	32°16'14.875"N	103°33'29.490"W	0.00	
15789.00†	89.092	178.008	11330.48	4718.25	-4711.89	244.84	780919.92	463014.92	32°16'13.886"N	103°33'29.458"W	0.00	
15889.00†	89.092	178.008	11332.06	4818.22	-4811.82	248.32	780923.39	462914.99	32°16'12.897"N	103°33'29.426"W	0.00	
15989.00†	89.092	178.008	11333.65	4918.20	-4911.75	251.79	780926.87	462815.07	32°16'11.908"N	103°33'29.394"W	0.00	
16089.00†	89.092	178.008	11335.23	5018.17	-5011.67	255.27	780930.34	462715.14	32°16'10.919"N	103°33'29.362"W	0.00	
16175.25	89.092	178.008	11336.60†	5104.40	-5097.86	258.27	780933.34	462628.96	32°16'10.066"N	103°33'29.334"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
		11336.00	-5104.16	-1062.62	779612.49	462622.66	32°16'10.098"N	103°33'44.718"W	rectangle

No.56H PBHL									
1) No.57H PBHL	16175.25	11336.60	-5097.86	258.27	780933.34	462628.96	32°16'10.066"N	103°33'29.334"W	rectangle

SURVEY PROGRAM - Ref Wellbore: No.56H PWB Ref Wellpath: Rev-D.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	1254.00	Generic gyro - northseeking (Standard)		No.56H AWB
1254.00	2189.00	NaviTrak (Standard)		No.56H AWB
2189.00	16175.25	NaviTrak (Standard)		No.56H PWB