

DATE IN 3-11-11	SUSPENSE	ENGINEER DB	LOGGED IN	TYPE NSL	APP NO. 1107039792
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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


Devon
Thistle Unit # 20H

ADMINISTRATIVE APPLICATION CHECKLIST 30-025-40015

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☒ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Katie A. McDonnell
 Print or Type Name

Katie A. McDonnell
 Signature

Landman
 Title

03-11-2011
 Date

katie.mcdonnell@dvn.com
 e-mail Address

RECEIVED OGD
 2011 MAR 11 A 9:07

6362



Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

March 11, 2011

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Attn: David Brooks

RE: Thistle Unit #20H
Section 27-T23S-R33E
Lea County, New Mexico

Gentlemen:

Devon Energy Production Company, L.P. ("Devon"), as Operator, intends to drill the referenced horizontal Delaware well to a total vertical depth of 9,068' with a total measured depth of 13,863'. As reflected on the attached C-102, the well has been permitted at a surface location of 150' FNL and 150' FWL with a permitted bottom hole location of 150' FSL and 1,170' FWL of Section 27. We will penetrate the top of the Delaware formation at an unorthodox location of 150' FNL and 150' FWL (surface hole location), although the highest perforation in the well will not be closer than 330' to the outer boundary of the project area.

The surface hole location and bottom hole location will be non-standard in order to maximize the length of the horizontal portion of the wellbore within the target Delaware interval. By spotting the surface hole location 150' from the section line, this allows room to build the curve and land horizontally at a standard location within the target Delaware interval. By spotting the bottom hole location 150' from the section line, this allows room to drill sufficient rathole for casing shoe joints. Perforations in the horizontal wellbore in the target Delaware interval will be at least 330' from the section lines. If the surface hole location and bottom hole location were placed at standard locations (330' from the section lines), this would reduce the productive horizontal interval. With the proposed well plan, the productive interval of the horizontal wellbore within the target Delaware interval is maximized.

Inasmuch as the referenced well will penetrate the top of the Delaware formation at an unorthodox location from that permitted by the Statewide Pool Rules, Devon respectfully requests that the Commission administratively approve this application for an unorthodox location in accordance with Division Rule 104(F)(3). At the surface hole location, this unorthodox location affects the leasehold owners/operators in Unit letter M of section 22, Unit letter P of section 21, and Unit letter A of section 28-T23S-R33E. At the bottom hole location, this unorthodox location affects the leasehold owners/operators in Unit letter N of said section 27, as well as Unit letters C & D of section 34-T23S-R33E. Devon is the operator of that portion of the Thistle Unit comprised of the E/2 of section 21, as well as sections 22, 27, 28, and 34. In accordance with NMOC rules, the affected working interest owners in said affected Unit letters of the Thistle Unit have been given notice of this application. Additionally, Devon requests Commission approval to designate a 160 acre project area consisting of four (4) standard oil spacing units comprised of the W/2 W/2 (Unit letters D, E, L, & M) of said Section 27.

NMOCD- David Brooks

Page 2

March 11, 2011

Attached for your review you will find a land plat, copies of letters of notification to the affected parties, a structure map covering the Top Delaware formation, a State of New Mexico form C-102, and a Well Profile Planning Report prepared by Pathfinder Energy Services.

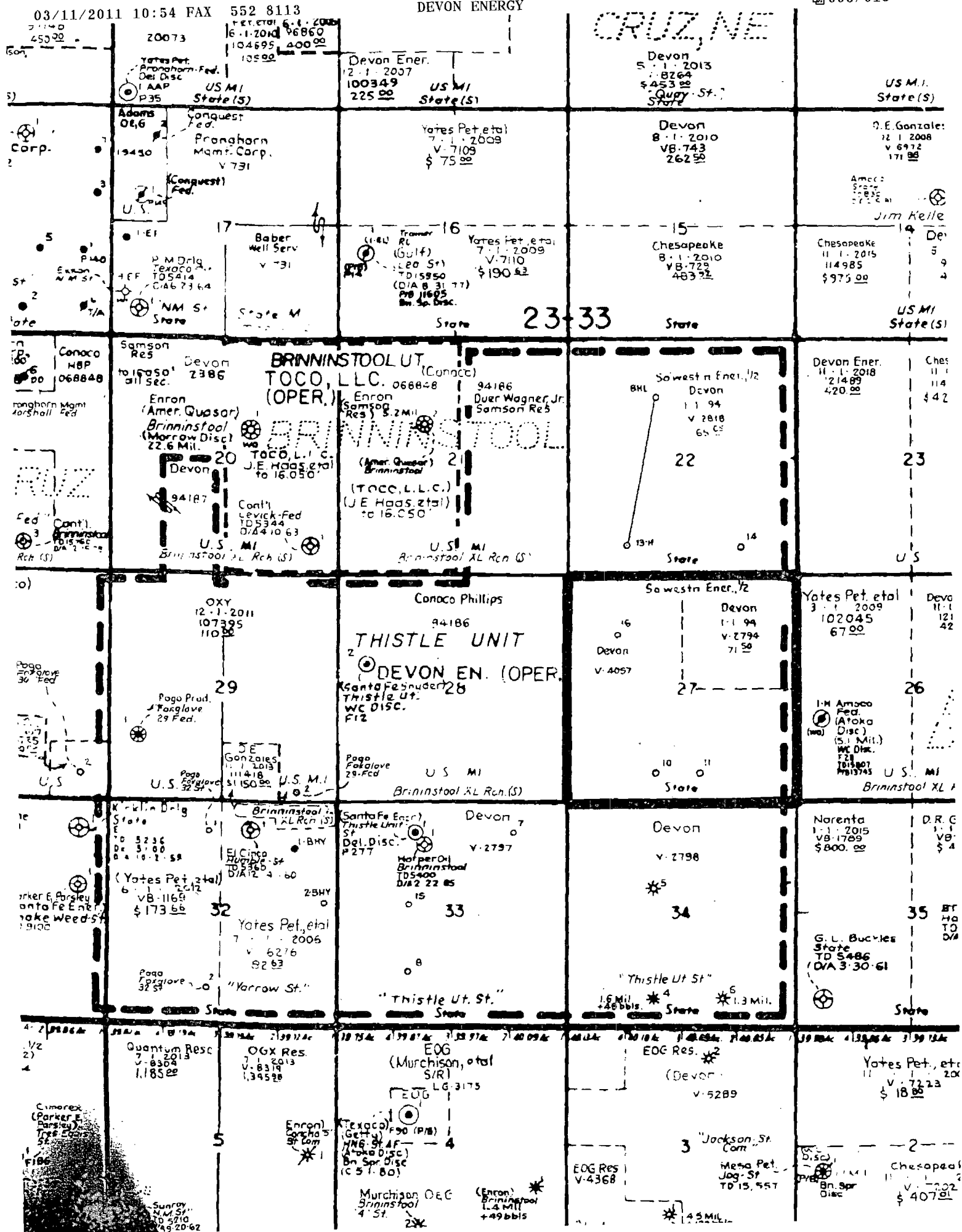
Feel free to contact the undersigned at (405)552-8040 if there are any concerns or questions regarding this application.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

A handwritten signature in black ink that reads "Katie A. McDonnell". The signature is written in a cursive, flowing style.

Katie A. McDonnell
Landman





Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

March 11, 2011

Attn: Randall Trainer
Trainer Partners, Ltd.
P.O. Box 3778
Midland, TX 79702

Re: Thistle Unit #20H
Section 27-T23S-R33E
Lea County, NM

Gentlemen:

Attached you will find Devon Energy Production Company, L.P.'s administrative application for approval of an unorthodox well location covering the referenced well. Our records indicate that Trainer Partners, Ltd. as a working interest owner in that portion of the Thistle Unit, made up of Sections 21, 22, 27, 28, & 34-T23S-R33E is an affected owner of an offset spacing unit and is entitled to notice of this application in accordance with Division Rule 104(f). In accordance with NMOC rules, objections to this application must be filed with the New Mexico Oil Conservation Division within 20 days from the date the OCD receives the application. If you have no objection to this application, please so indicate by signing and returning one copy of this letter to the undersigned via facsimile to 405-552-8113.

If there are any questions or if additional information is required, feel free to call me at (405) 552-8040.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

Katie A. McDonnell
Landman

Trainer Partners, Ltd. has no objection to this administrative application for unorthodox location.

By: _____

Title: _____

Date: _____

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate
District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number	² Pool Code	³ Pool Name <i>under Brinninstool Deer</i>
⁴ Property Code	⁵ Property Name THISTLE UNIT	⁶ Well Number 20H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3704.1

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	23 S	33 E		150	NORTH	150	WEST	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
M	27	23 S	33 E		150	SOUTH	1170	WEST	LEA

¹² Dedicated Acres	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.

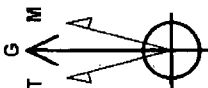
150' SURFACE LOCATION THISTLE UNIT #20H ELEV. = 3704.1' LAT. = 32°16'57.14"N (NAD83) LONG. = 103°34'05.83"W NMSP EAST (FT) N = 467314.06 E = 777788.18		NE CORNER SEC. 27 LAT. = 32°16'58.53"N LONG. = 103°33'06.07"W NMSP EAST (FT) N = 467491.76 E = 782918.90		17 OPERATOR CERTIFICATION I hereby certify 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 undivided 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: _____ Date: _____ Printed Name: _____
SW CORNER SEC. 27 LAT. = 32°16'06.39"N LONG. = 103°34'07.55"W NMSP EAST (FT) N = 462183.62 E = 777677.23		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 12, 2010 W. MEXICO Date of Survey: _____ Signature and Seal of Professional Surveyor: _____ Certificate Number: 12797 SURVEY NO. 301		
BOTTOM OF HOLE LAT. = 32°16'07.86"N LONG. = 103°33'53.93"W NMSP EAST (FT) N = 462340.85 E = 778846.13		S. Q. CORNER SEC. 27 LAT. = 32°16'06.36"N LONG. = 103°33'36.81"W NMSP EAST (FT) N = 462199.47 E = 780317.75		

PATHFINDER

West-/East/ A Schlumberger Company

Azimuths to Grid North
True North: -0.41°
Magnetic North: 7.23°
Strength: 48738.15nT
Dip Angle: 60.28°
Date: 12/01/2010
Model: IGRF200510

Magnetic Field
Strength: 48738.15nT
Dip Angle: 60.28°
Date: 12/01/2010
Model: IGRF200510



PROJECT DETAILS: Lea County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

Project: Lea County
Site: Thistle Unit
Well: #20H
Wellbore: OH
Plan: Design #1 (#20H/OH)

Sec	MD	Inc	Adj	TVD	+N/S	+E/W	Dlog	TFace	VFace	Target
1	8451.00	0.00	0.00	8451.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2346.51	89.44	167.99	8024.00	-555.01	118.07	10.00	167.99	567.43	
3	33882.96	89.44	167.99	8088.16	-4873.39	1059.03	0.00	0.00	5094.89	PBH(TU20H)

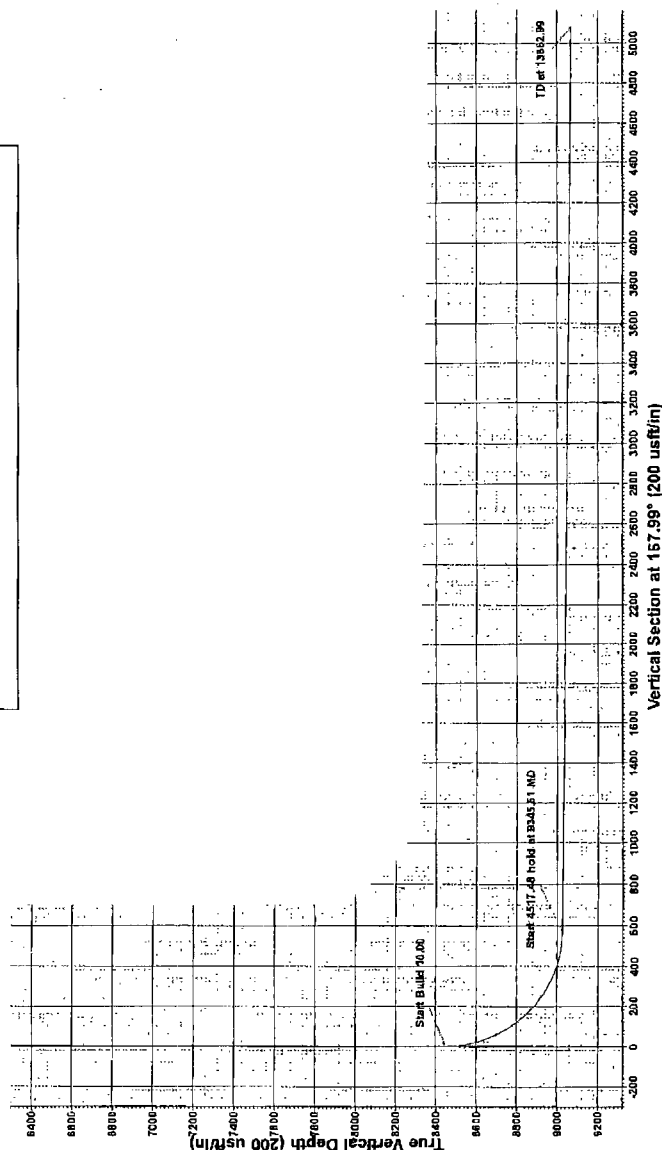
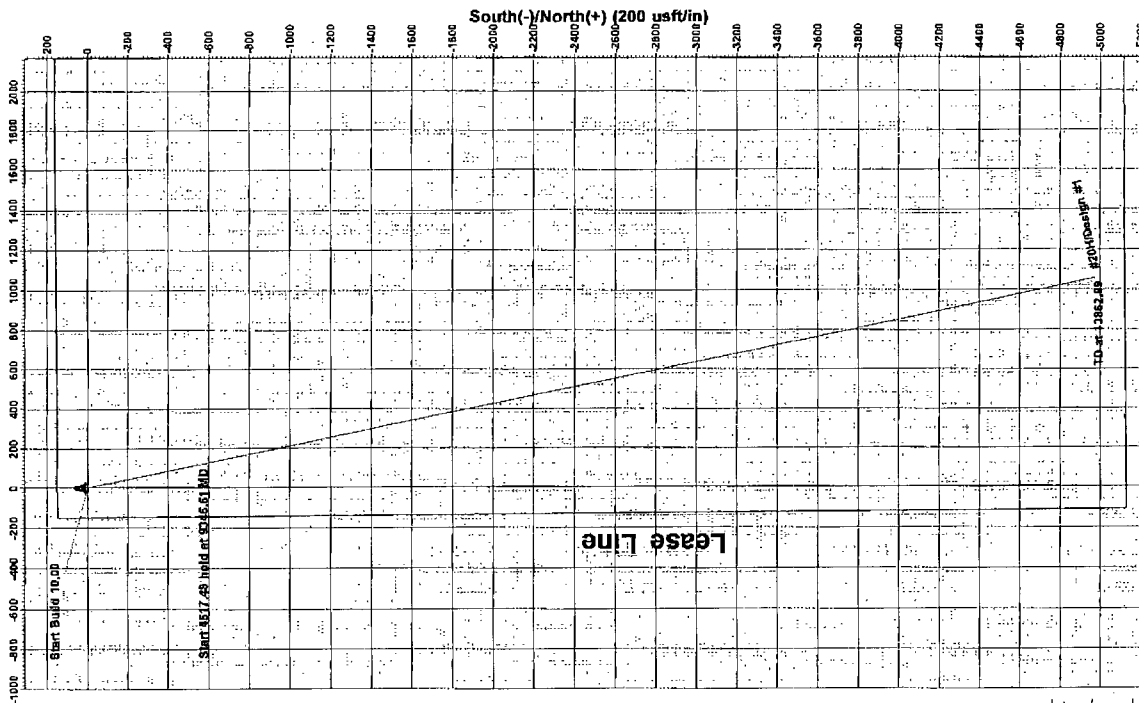
WELL DETAILS: #20H

Ground Elevation: 3886.00
KRB Elevation: WELL @ 3713.00ft (19' KB Correction)
Rg Name: 19' KB Correction

+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slat
0.00	0.00	487314.060	777789.180	32° 18' 55.848 N	103° 34' 5.375 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name: TVD
+E/W: 1187.86
+N/S: 4873.41
Northing: 487340.856
Easting: 778846.130
Point



Vertical Section at 157.99° (200 usft/in)

Plan: Design #1 (#20H/OH)

Created By: Kate Sligham Date: 14/11/2010



Devon Energy Production Company, L.P.

Lea County
Thistle Unit
#20H
OH

Plan: Design #1

Pathfinder X & Y Planning Report

01 December, 2010





Pathfinder Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: Devon Energy Production Company, L.P. Project: Lea County Site: Thistle Unit Well: #20H Wellbore: OH Design: Design #1		Local Co-ordinate References: TWD Reference: WELL @ 3715.00usft (19' KB Correction) NAD Reference: WELL @ 3715.00usft (19' KB Correction) North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.1 Single User Db		Site Thistle Unit WELL @ 3715.00usft (19' KB Correction) WELL @ 3715.00usft (19' KB Correction) Grid Minimum Curvature EDM 5000.1 Single User Db	
Project: Lea County Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone		System Datum: Mean Sea Level			
Site: Thistle Unit					
Site Position: From: Map Position Uncertainty: 0.00 usft		Northing: 467,314.060 usft Eastng: 777,788.180 usft Slot Radius: 13-3/16"		Latitude: 32° 16' 56.649 N Longitude: 103° 34' 5.575 W Grid Convergence: 0.41°	
Well: #20H					
Well Position +N/S 0.00 usft +E/W 0.00 usft 0.00 usft		Northing: 467,314.060 usft Eastng: 777,788.180 usft Wellhead Elevation: usft		Latitude: 32° 16' 56.649 N Longitude: 103° 34' 5.575 W Ground Level: 3,696.00 usft	
Wellbore: OH					
Magnetics Model Name: IGRF200510 Sample Date: 12/01/10 Declination: 7.64 Dip Angle: 60.28 Field Strength: 48,738					
Design: Design #1					
Audit Notes: Version:		Phase: PLAN Tie On Depth: 8,451.00 Vertical Section: Depth From (TVD) usft +E/W usft -N/S usft 0.00 0.00 0.00 167.99			
Survey Tool Program Date: 12/01/10 From (usft): 8,451.00 To (usft): 13,862.86 Survey (Wellbore): Design #1 (OH)					



Pathfinder Pathfinder X & Y Planning Report



Company				Devon Energy Production Company, L.P.				Local Co-ordinates Reference				Site Thistle Unit			
Project				Lea County				TVD Reference				WELL @ 3715.00ust (19' KB Correction)			
Site				Thistle Unit				MD Reference				WELL @ 3715.00ust (19' KB Correction)			
Well				#20H				North Reference				Grid			
Wellbore				OH				Survey Calculation Method				Minimum Curvature			
Design				Design #1				Database				EDM 5000.1 Single User Db			
Planned Survey															
MD (ust)	Inc (°)	Az (°)	TVD (ust)	TVSS (ust)	N.S. (ust)	EW (ust)	V. Sec (ust)	Slag (%100ust)	Normaling (ust)	Easting (ust)					
0.00	0.00	0.00	0.00	3,715.00	0.00	0.00	0.00	0.00	467,314.06	777,788.18					
8,451.00	0.00	0.00	8,451.00	-4,736.00	0.00	0.00	0.00	0.00	467,314.06	777,788.18					
8,500.00		4.90	8,499.94	-4,764.94	-2.05	0.44	2.09	10.00	467,312.01	777,788.62					
8,550.00		9.90	8,549.51	-4,834.51	-8.34	1.78	8.53	10.00	467,305.72	777,789.96					
8,600.00		14.90	8,598.33	-4,883.33	-18.84	4.01	19.26	10.00	467,295.22	777,792.19					
8,650.00		19.90	8,646.02	-4,931.02	-33.46	7.12	34.21	10.00	467,280.60	777,795.30					
8,700.00		24.90	8,692.24	-4,977.24	-52.09	11.08	53.25	10.00	467,261.97	777,799.26					
8,750.00		29.90	8,736.62	-5,021.62	-74.58	15.87	76.25	10.00	467,239.48	777,804.05					
8,800.00		34.90	8,778.62	-5,063.82	-100.78	21.44	103.03	10.00	467,213.28	777,809.62					
8,850.00		39.90	8,818.53	-5,103.53	-130.47	27.76	133.39	10.00	467,183.59	777,815.94					
8,900.00		44.89	8,855.45	-5,140.45	-163.43	34.77	167.09	10.00	467,150.63	777,822.95					
8,950.00		49.89	8,889.28	-5,174.28	-199.42	42.42	203.88	10.00	467,114.64	777,830.60					
9,000.00		54.89	8,919.78	-5,204.78	-238.15	50.66	243.48	10.00	467,075.91	777,838.84					
9,050.00		59.89	8,946.72	-5,231.72	-279.33	59.43	285.59	10.00	467,034.73	777,847.61					
9,100.00		64.89	8,969.88	-5,254.88	-322.66	68.64	329.88	10.00	466,991.40	777,856.82					
9,150.00		69.89	8,989.10	-5,274.10	-367.79	78.24	376.02	10.00	466,946.27	777,866.42					
9,200.00		74.89	9,004.22	-5,289.22	-414.39	88.16	423.66	10.00	466,899.67	777,876.34					
9,250.00		79.89	9,015.13	-5,300.13	-462.10	98.31	472.44	10.00	466,851.96	777,886.49					
9,300.00		84.89	9,021.75	-5,306.75	-510.56	108.62	521.99	10.00	466,803.50	777,896.80					
9,345.51		89.44	9,024.00	-5,309.00	-555.01	118.07	567.43	10.00	466,759.05	777,906.25					
9,400.00		89.44	9,024.53	-5,309.53	-608.30	129.41	621.92	0.00	466,705.76	777,917.59					
9,500.00		89.44	9,025.51	-5,310.51	-706.11	150.22	721.91	0.00	466,607.95	777,938.40					
9,600.00		89.44	9,026.49	-5,311.49	-803.82	171.02	821.91	0.00	466,510.14	777,959.20					
9,700.00		89.44	9,027.46	-5,312.46	-901.72	191.83	921.90	0.00	466,412.34	777,980.01					
9,800.00		89.44	9,028.44	-5,313.44	-999.53	212.64	1,021.90	0.00	466,314.53	778,000.82					
9,900.00		89.44	9,029.42	-5,314.42	-1,097.33	233.45	1,121.89	0.00	466,216.73	778,021.63					
10,000.00		89.44	9,030.40	-5,315.40	-1,195.14	254.25	1,221.89	0.00	466,118.92	778,042.43					



Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
 Project: Lea County
 Site: Thistle Unit
 Well: #20H
 Wellbore: OH
 Design: Design #1

Local Coordinate Reference: Site Thistle Unit
 TVD Reference: WELL @ 3715.00usft (19' KB Correction)
 MD Reference: WELL @ 3715.00usft (19' KB Correction)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	AZ (°)	TVD (usft)	TVDS (usft)	N/S (usft)	EW (usft)	V Sec (usft)	Drag (1/100usft)	Northing (usft)	Eastng (usft)
10,100.00	89.44	167.99	9,031.37	-5,316.37	-1,282.95	275.05	1,321.88	0.00	486,021.11	778,063.24
10,200.00	89.44	167.99	9,032.35	-5,317.35	-1,390.75	295.87	1,421.88	0.00	485,923.31	778,084.05
10,300.00	89.44	167.99	9,033.33	-5,318.33	-1,488.56	316.67	1,521.87	0.00	485,825.50	778,104.85
10,400.00	89.44	167.99	9,034.31	-5,319.31	-1,586.37	337.48	1,621.87	0.00	485,727.69	778,125.86
10,500.00	89.44	167.99	9,035.28	-5,320.28	-1,684.17	358.29	1,721.86	0.00	485,629.89	778,146.47
10,600.00	89.44	167.99	9,036.26	-5,321.26	-1,781.98	379.10	1,821.86	0.00	485,532.08	778,167.29
10,700.00	89.44	167.99	9,037.24	-5,322.24	-1,879.79	399.90	1,921.85	0.00	485,434.27	778,188.08
10,800.00	89.44	167.99	9,038.22	-5,323.22	-1,977.59	420.71	2,021.85	0.00	485,336.47	778,208.89
10,900.00	89.44	167.99	9,039.19	-5,324.19	-2,075.40	441.52	2,121.84	0.00	485,238.66	778,229.70
11,000.00	89.44	167.99	9,040.17	-5,325.17	-2,173.21	462.33	2,221.84	0.00	485,140.85	778,250.51
11,100.00	89.44	167.99	9,041.15	-5,326.15	-2,271.01	483.13	2,321.83	0.00	485,043.05	778,271.31
11,200.00	89.44	167.99	9,042.13	-5,327.13	-2,368.82	503.94	2,421.83	0.00	484,945.24	778,292.12
11,300.00	89.44	167.99	9,043.10	-5,328.10	-2,466.63	524.75	2,521.82	0.00	484,847.43	778,312.93
11,400.00	89.44	167.99	9,044.08	-5,329.08	-2,564.43	545.55	2,621.82	0.00	484,749.63	778,333.73
11,500.00	89.44	167.99	9,045.06	-5,330.06	-2,662.24	566.36	2,721.82	0.00	484,651.82	778,354.54
11,600.00	89.44	167.99	9,046.03	-5,331.03	-2,760.04	587.17	2,821.81	0.00	484,554.02	778,375.35
11,700.00	89.44	167.99	9,047.01	-5,332.01	-2,857.85	607.98	2,921.81	0.00	484,456.21	778,396.16
11,800.00	89.44	167.99	9,047.99	-5,332.99	-2,955.66	628.78	3,021.80	0.00	484,358.40	778,416.96
11,900.00	89.44	167.99	9,048.97	-5,333.97	-3,053.46	649.59	3,121.80	0.00	484,260.60	778,437.77
12,000.00	89.44	167.99	9,049.94	-5,334.94	-3,151.27	670.40	3,221.79	0.00	484,162.79	778,458.58
12,100.00	89.44	167.99	9,050.92	-5,335.92	-3,249.08	691.21	3,321.79	0.00	484,064.98	778,479.39
12,200.00	89.44	167.99	9,051.90	-5,336.90	-3,346.88	712.01	3,421.78	0.00	483,967.18	778,500.19
12,300.00	89.44	167.99	9,052.88	-5,337.88	-3,444.69	732.82	3,521.78	0.00	483,869.37	778,521.00
12,400.00	89.44	167.99	9,053.85	-5,338.85	-3,542.50	753.63	3,621.77	0.00	483,771.56	778,541.81
12,500.00	89.44	167.99	9,054.83	-5,339.83	-3,640.30	774.43	3,721.77	0.00	483,673.76	778,562.61
12,600.00	89.44	167.99	9,055.81	-5,340.81	-3,738.11	795.24	3,821.76	0.00	483,575.95	778,583.42
12,700.00	89.44	167.99	9,056.79	-5,341.79	-3,835.92	816.05	3,921.76	0.00	483,478.14	778,604.23



Pathfinder
Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.

Project: Lea County

Site: Thistle Unit

Well: #20H

Wellbore: DH

Design: Design #1

Local Coordinate Reference:

TWD Reference:

WD Reference:

North Reference:

Survey Calculation Method:

Database:

Site Thistle Unit

WELL @ 3715.00usft (19' KB Correction)

WELL @ 3715.00usft (19' KB Correction)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	AZ (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	Disg (ft/100usft)	Northing (usft)	Easting (usft)
12,800.00	89.44	167.99	9,057.76	-5,342.76	-3,933.72	836.86	4,021.75	0.00	463,380.34	778,625.04
12,900.00	89.44	167.99	9,058.74	-5,343.74	-4,031.59	857.66	4,121.75	0.00	463,282.53	778,645.84
13,000.00	89.44	167.99	9,059.72	-5,344.72	-4,129.34	878.47	4,221.74	0.00	463,184.72	778,666.65
13,100.00	89.44	167.99	9,060.70	-5,345.70	-4,227.14	899.28	4,321.74	0.00	463,086.92	778,687.46
13,200.00	89.44	167.99	9,061.67	-5,346.67	-4,324.95	920.09	4,421.73	0.00	462,989.11	778,708.27
13,300.00	89.44	167.99	9,062.65	-5,347.65	-4,422.75	940.89	4,521.73	0.00	462,891.31	778,729.07
13,400.00	89.44	167.99	9,063.63	-5,348.63	-4,520.56	961.70	4,621.72	0.00	462,793.50	778,749.88
13,500.00	89.44	167.99	9,064.60	-5,349.60	-4,618.37	982.51	4,721.72	0.00	462,695.69	778,770.69
13,600.00	89.44	167.99	9,065.58	-5,350.58	-4,716.17	1,003.31	4,821.71	0.00	462,597.89	778,791.49
13,700.00	89.44	167.99	9,066.56	-5,351.56	-4,813.98	1,024.12	4,921.71	0.00	462,500.08	778,812.30
13,800.00	89.44	167.99	9,067.54	-5,352.54	-4,911.79	1,044.93	5,021.71	0.00	462,402.27	778,833.11
13,862.99	89.44	167.99	9,068.15	-5,353.15	-4,973.39	1,058.03	5,084.69	0.00	462,340.67	778,846.21

PBHL(TU#20H)

Checked By: _____

Approved By: _____

Date: _____



Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

March 11, 2011

Attn: Doug Hurlbut
EOG Resources Inc
4000 N Big Spring Ste 500
Midland, Texas 79705

Re: Thistle Unit #20H
Section 27-T23S-R33E
Lea County, NM

Gentlemen:

Attached you will find Devon Energy Production Company, L.P.'s administrative application for approval of an unorthodox well location covering the referenced well. Our records indicate that EOG, as a working interest owner in that portion of the Thistle Unit, made up of Section 34-T23S-R33E, is an affected owner of an offset spacing unit and is entitled to notice of this application in accordance with Division Rule 104(f). In accordance with NMOC Rules, objections to this application must be filed with the New Mexico Oil Conservation Division within 20 days from the date the OCD receives the application. If you have no objection to this application, please so indicate by signing and returning one copy of this letter to the undersigned via facsimile to 405-552-8113.

If there are any questions or if additional information is required, feel free to call me at (405) 552-8040.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

Katie A. McDonnell
Landman

EOG Resources Inc. has no objection to this administrative application for unorthodox location.

By: _____

Title: _____

Date: _____

DEVON ENERGY PROD
THISTLE UNIT #20H

SHL

Thistle Unit 20H



27

DEVON
Thistle Unit 10

14,200

BHL

PETRA 3/7/2011 5:31:45 PM

Devon Energy

Thistle Unit 20H

Non-Standard Location

Structure - Top Delaware

