

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM0503
2. Name of Operator DEVON ENERGY PROD CO., L.P. Contact: LINDA GOOD E-Mail: linda.good@dvn.com		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE. OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-552-6558	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 13 T25S R31E Mer NMP NENE 200FNL 670FEL		8. Well Name and No. COTTON DRAW UNIT 278H 278Y
		9. API Well No. 30-015- 43740 43923
		10. Field and Pool, or Exploratory COTTON DRAW, DELAWARE, S
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original / PD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Devon Energy respectfully requests to change the SHL from 200 FNL 610 FEL to 200 FNL 670 FEL on the Cotton Draw Unit 278H due to a conductor unit getting stuck while drilling the conductor hole. When drilling the conductor for the Cotton Draw Unit 278H original SHL, the auger unit drilling the mouse hole got stuck at 95' causing us to have to re-drill the Conductor. The attached Plat shows the new SHL along with a directional plan for your reference. Please let me know if you have any questions.

-Engineering OK - HAGUE
-NRS of JB 10-5-2016

New API assigned to skidded location is
30-015-43923
Well number changed to 278Y to
accommodate skid

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 11 2016
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14. I hereby certify that the foregoing is true and correct. Electronic Submission #352997 verified by the BLM Well Information System For DEVON ENERGY PROD CO., L.P., sent to the Carlsbad	
Name (Printed/Typed) LINDA GOOD	Title REGULATORY SPECIALIST
Signature (Electronic Submission)	Date 09/29/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title FIELD MANAGER	10-6-16 Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office CARLSBAD FIELD OFFICE

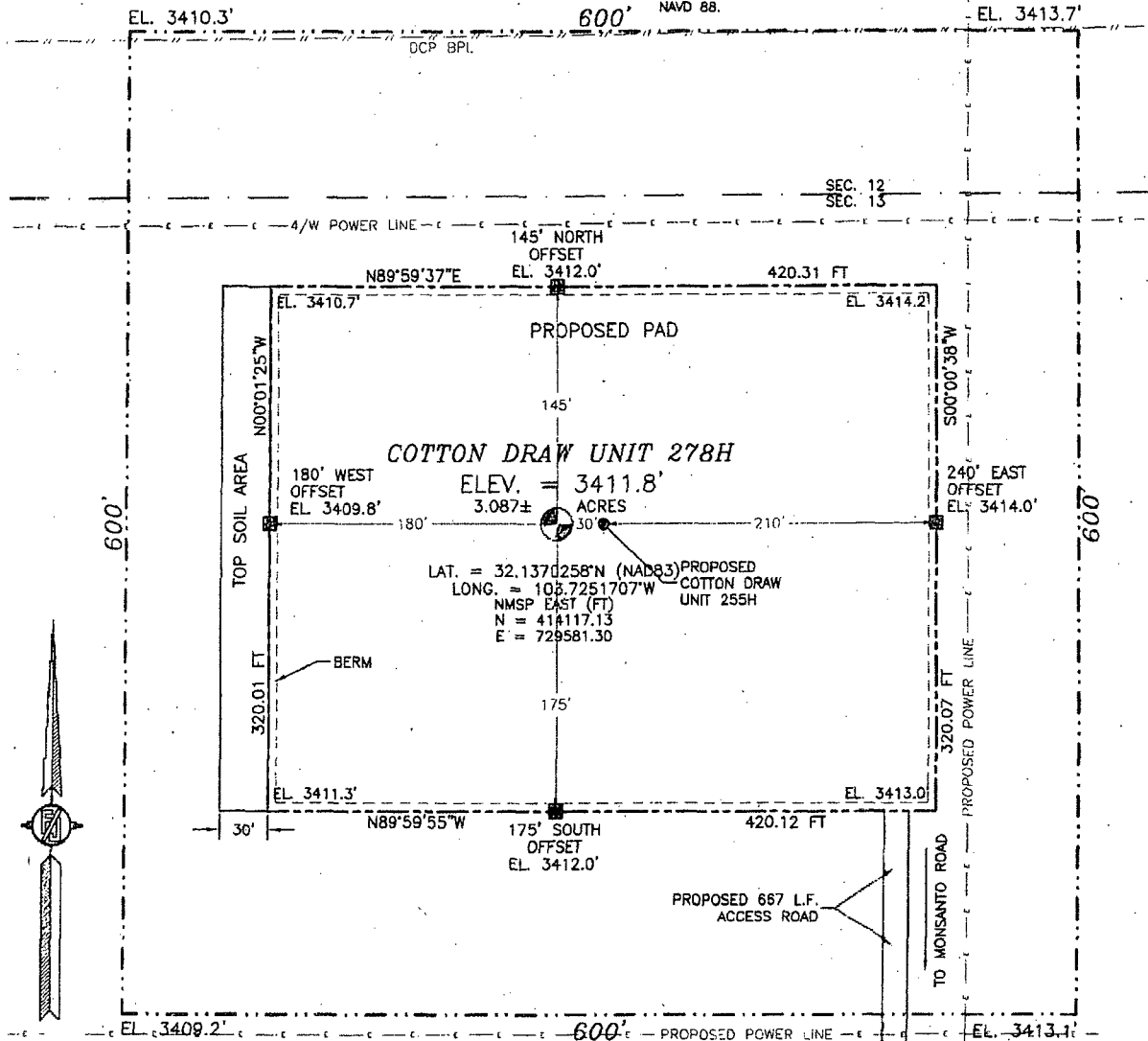
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person to make any false, fictitious or fraudulent statements or representations as to any matter within

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED**

Refer to 30-015-43740 for APD details.

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY 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. ELEVATION VALUES ARE NAVD 88.



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HWY #128 AND COUNTY ROAD #1 (ORLA HWY) GO SOUTH ON COUNTY ROAD #1 APPROX. 6.0 MILES TO MONSANTO ROAD ON RIGHT (WEST) TURN WEST ON MONSANTO ROAD GO APPROX. 2.1 MILES ROAD TURNS RIGHT (NORTH) GO APPROX. 0.9 MILE ROAD TURNS LEFT (WEST) GO APPROX. 1.0 MILE TO ROAD LATH WITH RED & WHITE FLAGGING ON RIGHT SIDE (NORTH) OF ROAD LOCATION IS 667' NORTH OF ROAD

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 278H

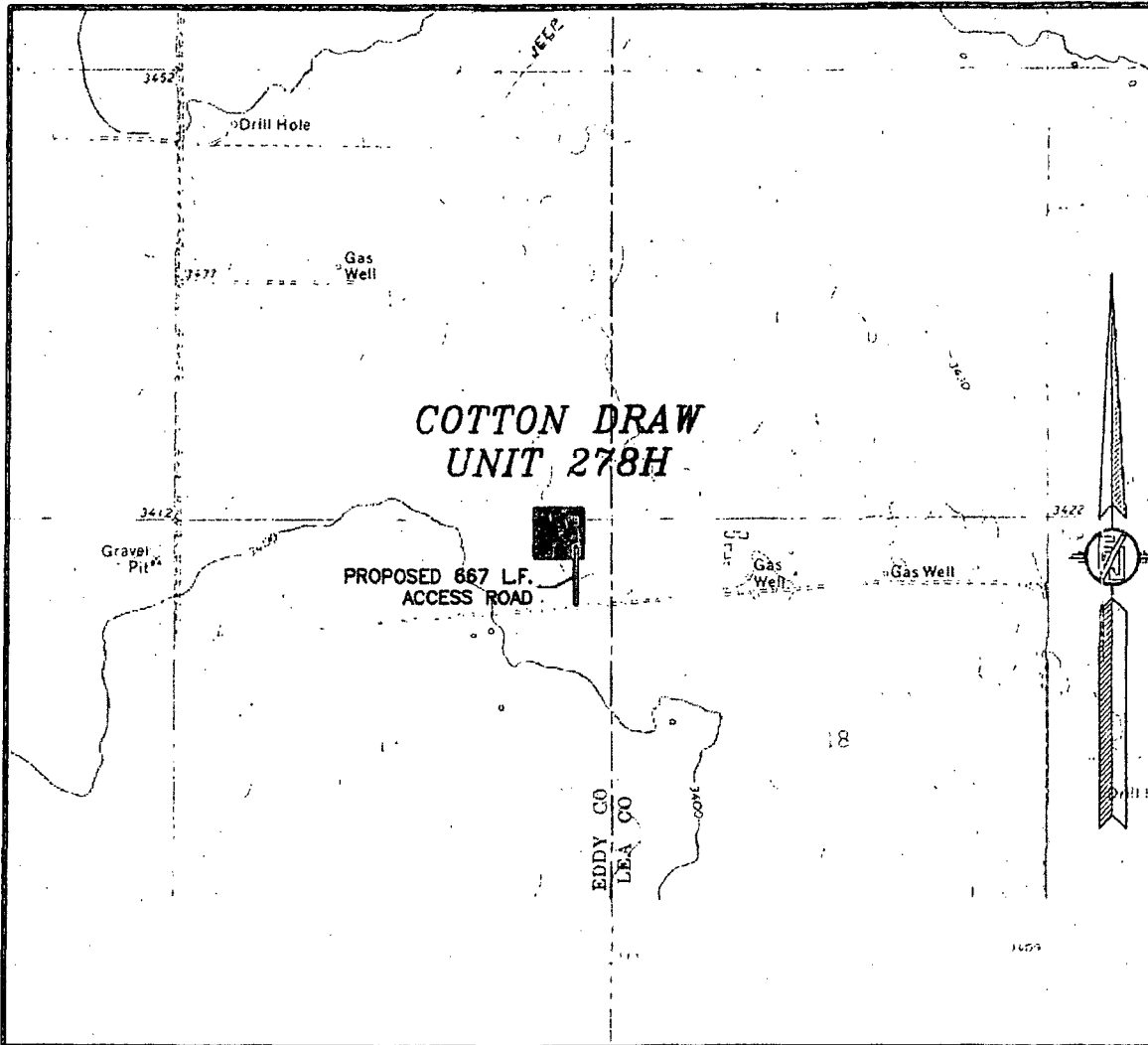
LOCATED 200 FT. FROM THE NORTH LINE
AND 670 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 28, 2016

SURVEY NO. 3830D

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

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PADUCA BREAKS NW
PADUCA BREAKS WEST

NOT TO SCALE

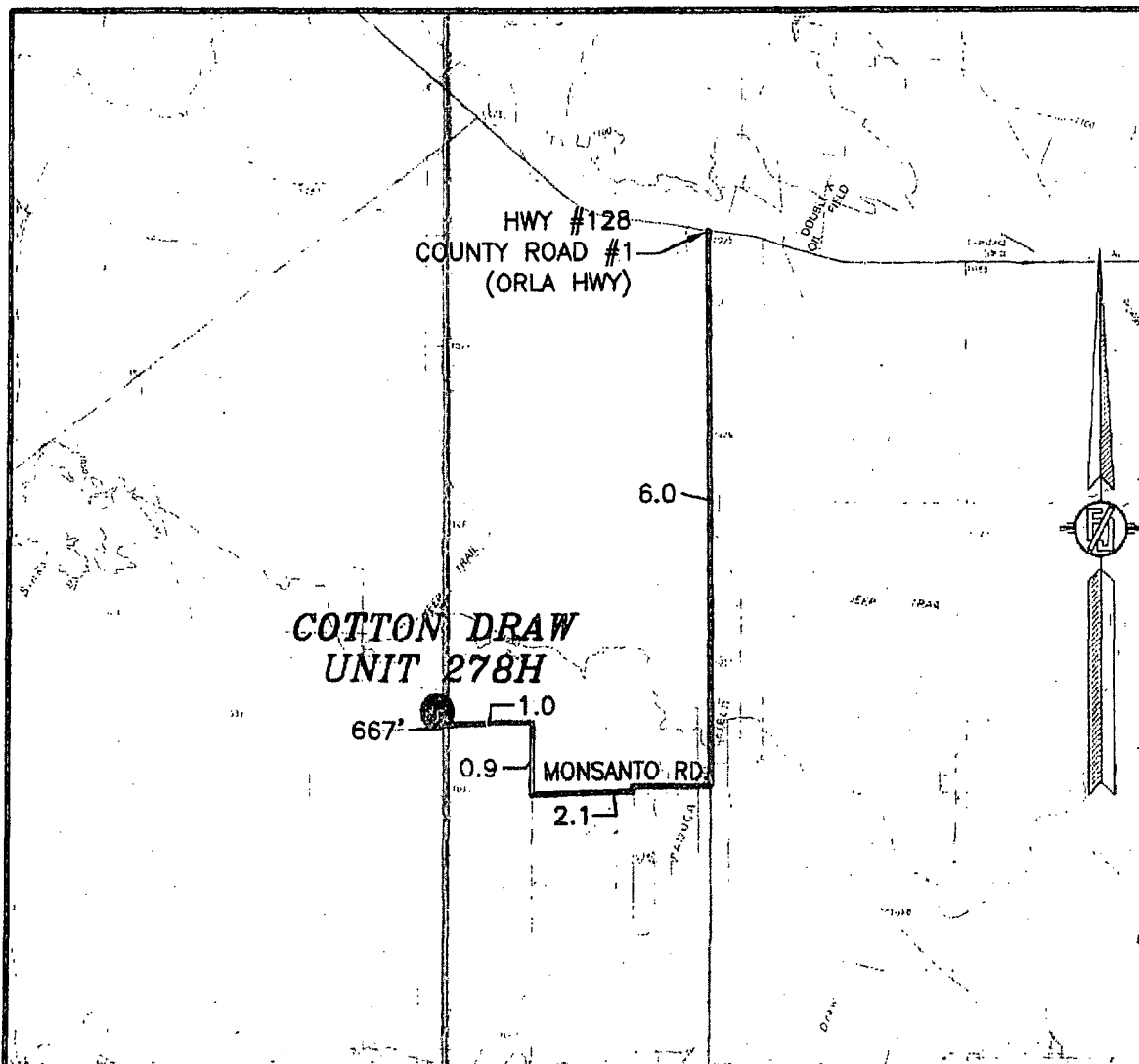
DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 278H

LOCATED 200 FT. FROM THE NORTH LINE
AND 670 FT. FROM THE EAST LINE OF
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MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO SURVEY NO. 3830D

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HWY #128 AND COUNTY ROAD #1 (ORLA HWY) GO SOUTH ON COUNTY ROAD #1 APPROX. 6.0 MILES TO MONSANTO ROAD ON RIGHT (WEST) TURN WEST ON MONSANTO ROAD GO APPROX. 2.1 MILES ROAD TURNS RIGHT (NORTH) GO APPROX. 0.9 MILE ROAD TURNS LEFT (WEST) GO APPROX. 1.0 MILE TO ROAD LATH WITH RED & WHITE FLAGGING ON RIGHT SIDE (NORTH) OF ROAD LOCATION IS 667' NORTH OF ROAD

**DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 278H**

LOCATED 200 FT. FROM THE NORTH LINE
AND 670 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 28, 2016

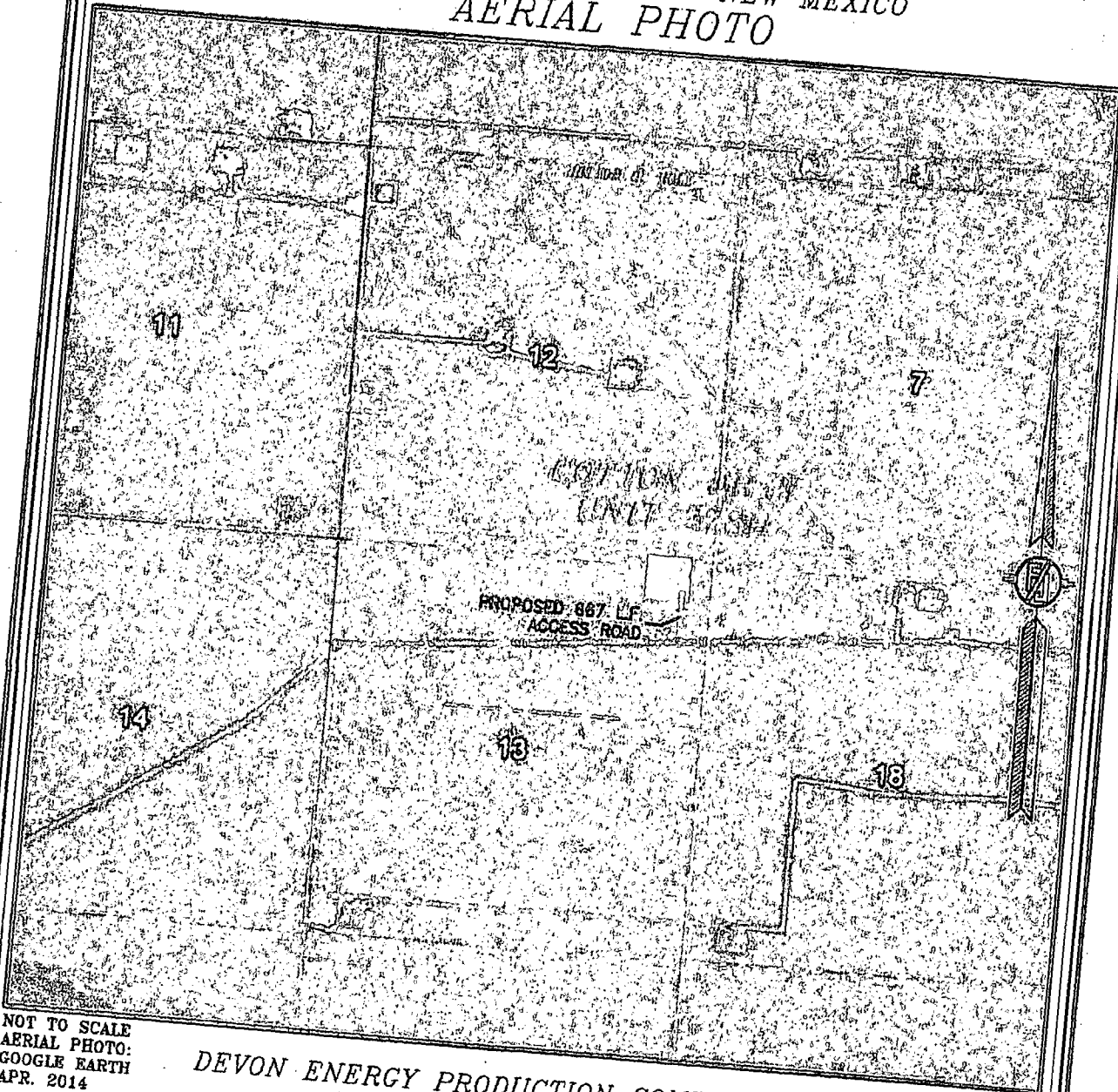
MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

CARLSBAD, NEW MEXICO

SURVEY NO. 3830D

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APR. 2014

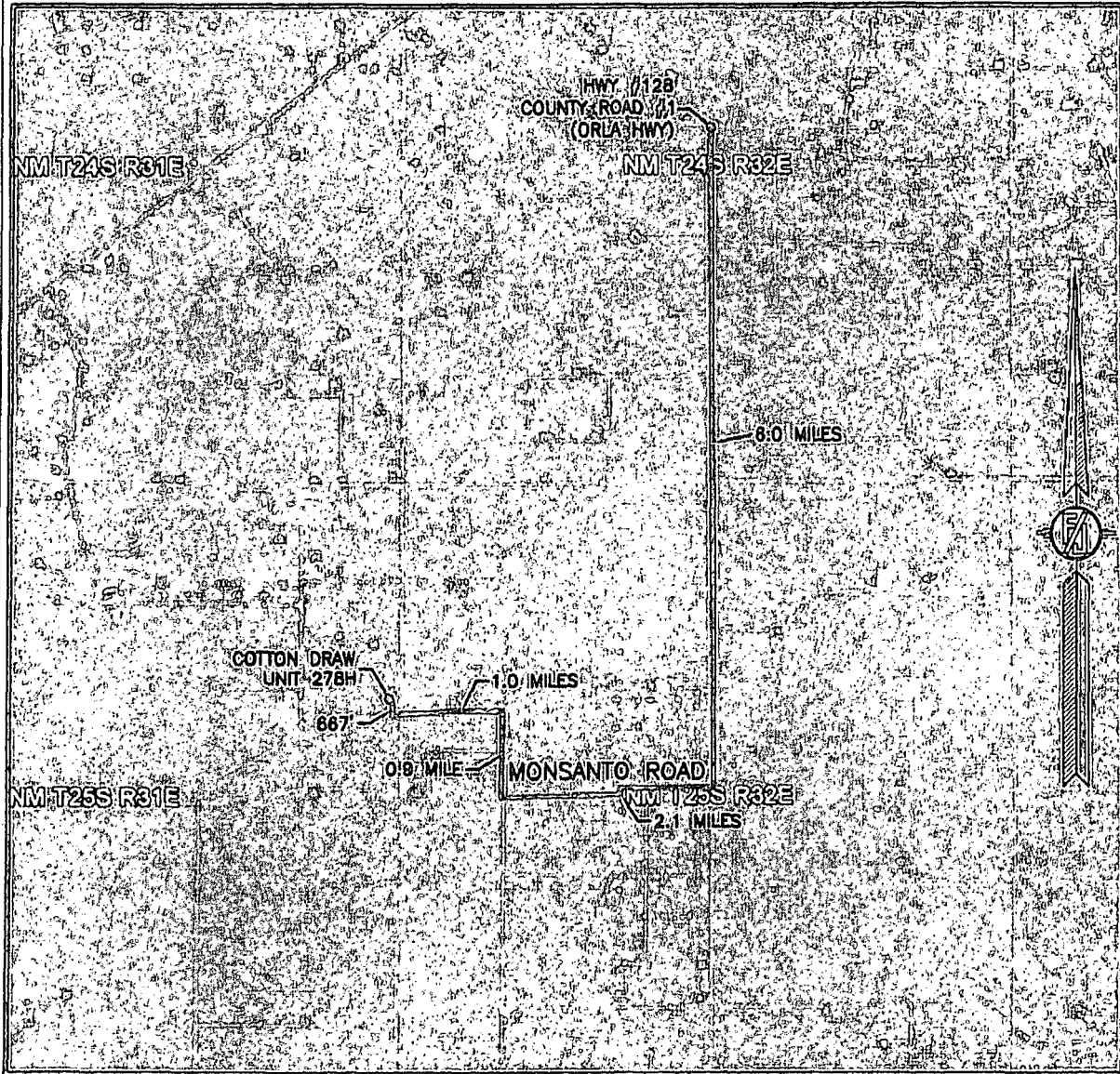
DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 278H
LOCATED 200 FT. FROM THE NORTH LINE
AND 670 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

SEPTEMBER 28, 2016

MADRON SURVEYING, INC. 301 SOUTH CANAL
(505) 234-3341

SURVEY NO. 3830D
CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APR. 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 278H

LOCATED 200 FT. FROM THE NORTH LINE
AND 670 FT. FROM THE EAST LINE OF
SECTION 13, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

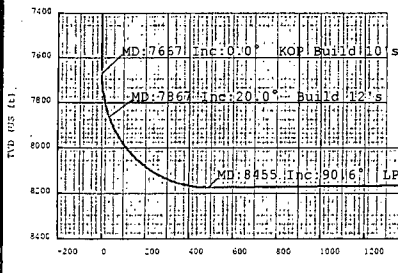
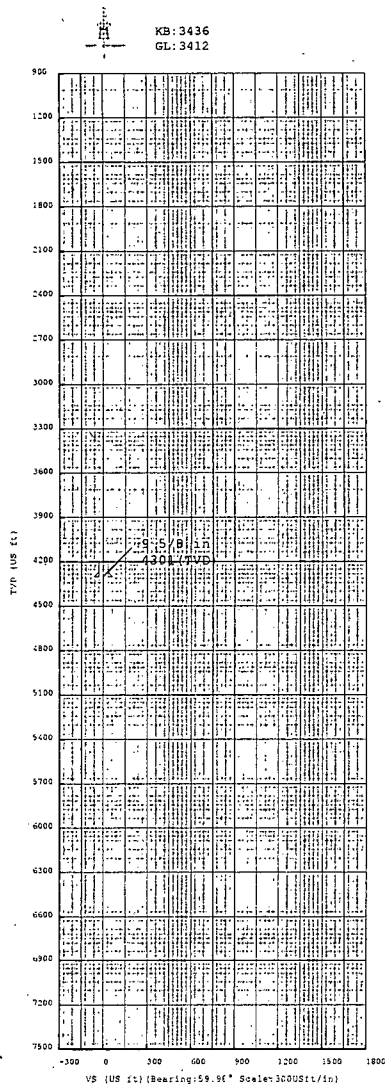
SEPTEMBER 28, 2016

SURVEY NO. 3830D

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



Devon Energy
Cotton Draw Unit 278H
Eddy Co, NM



Plan Data for Cotton Draw Unit 278H										
Plan Point Information:										
Dogleg Severity Unit: */100.00ft Position offsets from Slot centre										
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
0.00	0.00	0.00	0.00	0.00	0.00	414117.13	729581.30	0.00	0.00	
7667.00	0.00	0.00	7667.00	0.00	0.00	414117.13	729581.30	0.00	0.00	KOP Build 10's
7867.00	20.00	359.88	7862.96	34.55	-0.07	414151.68	729581.23	34.55	10.00	Build 12's
8455.12	90.57	359.88	8177.10	488.01	-1.02	414605.14	729580.28	488.01	12.00	LP
13153.60	90.57	359.88	8130.00	5186.24	-10.88	419303.37	729570.42	5186.25	0.00	PBHL 278H

Plan Data for Cotton Draw Unit 278H

Field: Eddy Co, NM (Nad 83 NME)
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Cotton Draw Unit 278H
Unit: USFeet TVD Reference:
Company Name: Devon Energy

Position:
Northing: 414117.13USft Latitude: 32.137026°
Easting: 729581.30USft Longitude: -103.725171°
North Reference: Grid Grid Convergence: 0.32°
Elevation Above VRD: 3412.00USft

Slot: Cotton Draw Unit 278H
Position:
Offset 1s from Site centre.
+N/-S: 0.00USft Northing: 414117.13USft Latitude: 32.137026°
+E/-W: 0.00USft Easting: 729581.30USft Longitude: -103.725171°
Elevation Above VRD: 3412.00USft

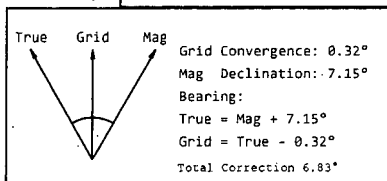
Well: Cotton Draw Unit 278H
Type: Main-Well
File Number:

Plan Folder: P1 Plan: P1:V5
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 359.88°
+E/-W: 0.00USft

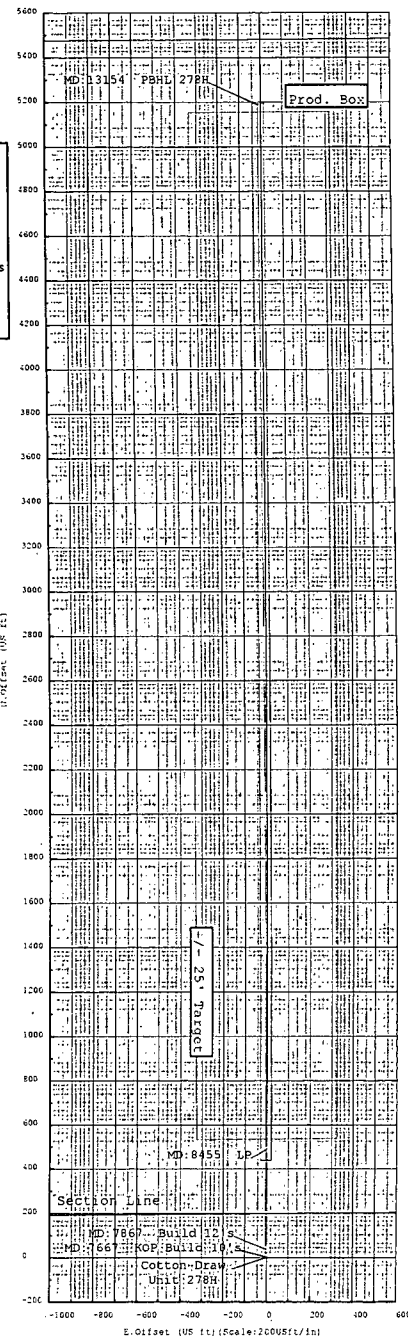
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2016 48032(nT) 7.15° 59.97° 2016-10-15

Plan Data for Cotton Draw Unit 278H										
Casing Point Information:										
Position offsets from Slot centre										
Name	MD	TVD	+N/-S	+E/-W	Northing	Easting	(USft)	(USft)	(USft)	(USft)
13 3/8 in	751.00	751.00	0.00	0.00	414117.13	729581.30				
9 5/8 in	4301.00	4301.00	0.00	0.00	414117.13	729581.30				

Plan Data for Cotton Draw Unit 278H										
Target Set Information:										
Name: Cotton Draw Unit 278H										
Position offsets from Slot centre										
Name	TVD	TVD SS	+N/-S	+E/-W	Northing	Easting	(USft)	(USft)	(USft)	(USft)
PBHL 278H	8130.00	-4694.00	5186.24	-10.88	419303.37	729570.42				



Cotton Draw Unit 278H





NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 11 2016

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5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Cotton Draw Unit 278H*
Well Name: *Cotton Draw Unit 278H*
Plan: *P1:V5*

28 September 2016




Weatherford

devon
Cotton Draw Unit 278H

Field Name: Eddy Co, NM (Nad 83 NME)	Map Units: US ft		Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Cotton Draw Unit 278H	Units: US ft	North Reference: Grid	Convergence Angle: 0.32	
	Position:	Northing: 414117.13 US ft	Latitude: 32° 8' 13.29"	
		Easting: 729581.30 US ft	Longitude: -103° 43' 30.61"	
	Elevation above MSL: 3412.00 US ft		Comment:	
Slot: Cotton Draw Unit 278H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 414117.13 US ft	Latitude: 32° 8' 13.29"	
	+E/-W: 0.00 US ft	Easting: 729581.30 US ft	Longitude: -103° 43' 30.61"	
	Elevation above MSL: 3412.00 US ft		Comment:	
Well: Cotton Draw Unit 278H	Type: Main well	UWI:	Plan: P1:V5	
	File Number:	Comment:		
	Closure Distance: 5186.25 US ft	Closure Azimuth: 359.88°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 359.88°	
	Magnetic Parameters:			
	Model: bggm2016	Field Strength: 48032.8nT	Declination: 7.15°	Dip: 59.97°
				Date: 15/Oct/2016

Drill floor: Plan: P1:V5

Rig Height (Drill Floor): 24.00 US ft	Elevation above MSL: 3436.00 US ft	Inclination: 0.00°	Azimuth: 0.00°
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Target set: Cotton Draw Unit 278H Comment:

Target Name:	Shape:	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
PBHL 278H	Cuboid	8130.00	5186.24	-10.88	419303.37	729570.42	

Casing Points: (Relative to Slot centre) (VRD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
751.00	0.00	0.00	751.00	0.00	0.00	414117.13	729581.30	13 3/8 in
4301.00	0.00	0.00	4301.00	0.00	0.00	414117.13	729581.30	9 5/8 in

Well path created using minimum curvature.

SD Plan Report

Tie Point:
MD: 0.00USFt **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** 0.00USFt **North Offset:** 0.00USFt **East Offset:** 0.00USFt

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
751.00	0.00	0.00	751.00	0.00	0.00	0.00	0.00	0.00	0.00	13 3/8 in
4301.00	0.00	0.00	4301.00	0.00	0.00	0.00	0.00	0.00	0.00	9 5/8 in
7667.00	0.00	0.00	7667.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Build 10's
7867.00	20.00	359.88	7862.96	34.55	34.55	-0.07	10.00	0.00	10.00	Build 12's
8455.12	90.57	359.88	8177.10	488.01	488.01	-1.02	12.00	-0.00	12.00	LP
13153.60	90.57	359.88	8130.00	5186.25	5186.24	-10.88	0.00	0.00	0.00	PBHL 278H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
751.00	0.00	0.00	751.00	0.00	0.00	0.00	414117.13	729581.30	0.00	13 3/8 in
800.00	0.00	0.00	800.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	

SD Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4301.00	0.00	0.00	4301.00	0.00	0.00	0.00	414117.13	729581.30	0.00	9 5/8 in
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	414117.13	729581.30	0.00	
7667.00	0.00	0.00	7667.00	0.00	0.00	0.00	414117.13	729581.30	0.00	KOP Build 10's
7700.00	3.30	359.88	7699.98	0.95	0.95	-0.00	414118.08	729581.30	10.00	
7800.00	13.30	359.88	7798.81	15.37	15.37	-0.03	414132.50	729581.27	10.00	
7867.00	20.00	359.88	7862.96	34.55	34.55	-0.07	414151.68	729581.23	10.00	Build 12's
7900.00	23.96	359.88	7893.56	46.90	46.90	-0.10	414164.03	729581.20	12.00	
8000.00	35.96	359.88	7980.04	96.75	96.75	-0.20	414213.88	729581.10	12.00	
8100.00	47.96	359.88	8054.26	163.49	163.49	-0.34	414280.62	729580.96	12.00	
8200.00	59.96	359.88	8112.99	244.20	244.20	-0.51	414361.33	729580.79	12.00	
8300.00	71.96	359.88	8153.65	335.36	335.36	-0.70	414452.49	729580.60	12.00	
8400.00	83.96	359.88	8174.47	432.98	432.98	-0.91	414550.11	729580.39	12.00	
8455.12	90.57	359.88	8177.10	488.01	488.01	-1.02	414605.14	729580.28	12.00	LP
8500.00	90.57	359.88	8176.65	532.89	532.89	-1.12	414650.02	729580.18	0.00	
8600.00	90.57	359.88	8175.65	632.88	632.88	-1.33	414750.01	729579.97	0.00	
8700.00	90.57	359.88	8174.65	732.88	732.88	-1.54	414850.01	729579.76	0.00	
8800.00	90.57	359.88	8173.64	832.87	832.87	-1.75	414950.00	729579.55	0.00	
8900.00	90.57	359.88	8172.64	932.87	932.87	-1.96	415050.00	729579.34	0.00	
9000.00	90.57	359.88	8171.64	1032.86	1032.86	-2.17	415149.99	729579.13	0.00	
9100.00	90.57	359.88	8170.64	1132.86	1132.86	-2.38	415249.99	729578.92	0.00	
9200.00	90.57	359.88	8169.63	1232.85	1232.85	-2.59	415349.98	729578.71	0.00	
9300.00	90.57	359.88	8168.63	1332.85	1332.84	-2.80	415449.97	729578.50	0.00	
9400.00	90.57	359.88	8167.63	1432.84	1432.84	-3.01	415549.97	729578.29	0.00	
9500.00	90.57	359.88	8166.63	1532.84	1532.83	-3.22	415649.96	729578.08	0.00	
9600.00	90.57	359.88	8165.62	1632.83	1632.83	-3.43	415749.96	729577.87	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre) (TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
9700.00	90.57	359.88	8164.62	1732.83	1732.82	-3.63	415849.95	729577.67	0.00	
9800.00	90.57	359.88	8163.62	1832.82	1832.82	-3.84	415949.95	729577.46	0.00	
9900.00	90.57	359.88	8162.62	1932.82	1932.81	-4.05	416049.94	729577.25	0.00	
10000.00	90.57	359.88	8161.61	2032.81	2032.81	-4.26	416149.94	729577.04	0.00	
10100.00	90.57	359.88	8160.61	2132.81	2132.80	-4.47	416249.93	729576.83	0.00	
10200.00	90.57	359.88	8159.61	2232.80	2232.80	-4.68	416349.93	729576.62	0.00	
10300.00	90.57	359.88	8158.61	2332.80	2332.79	-4.89	416449.92	729576.41	0.00	
10400.00	90.57	359.88	8157.60	2432.79	2432.79	-5.10	416549.92	729576.20	0.00	
10500.00	90.57	359.88	8156.60	2532.79	2532.78	-5.31	416649.91	729575.99	0.00	
10600.00	90.57	359.88	8155.60	2632.78	2632.78	-5.52	416749.91	729575.78	0.00	
10700.00	90.57	359.88	8154.60	2732.78	2732.77	-5.73	416849.90	729575.57	0.00	
10800.00	90.57	359.88	8153.59	2832.77	2832.77	-5.94	416949.90	729575.36	0.00	
10900.00	90.57	359.88	8152.59	2932.77	2932.76	-6.15	417049.89	729575.15	0.00	
11000.00	90.57	359.88	8151.59	3032.76	3032.76	-6.36	417149.89	729574.94	0.00	
11100.00	90.57	359.88	8150.59	3132.76	3132.75	-6.57	417249.88	729574.73	0.00	
11200.00	90.57	359.88	8149.58	3232.75	3232.75	-6.78	417349.88	729574.52	0.00	
11300.00	90.57	359.88	8148.58	3332.75	3332.74	-6.99	417449.87	729574.31	0.00	
11400.00	90.57	359.88	8147.58	3432.74	3432.73	-7.20	417549.86	729574.10	0.00	
11500.00	90.57	359.88	8146.58	3532.74	3532.73	-7.41	417649.86	729573.89	0.00	
11600.00	90.57	359.88	8145.57	3632.73	3632.72	-7.62	417749.85	729573.68	0.00	
11700.00	90.57	359.88	8144.57	3732.73	3732.72	-7.83	417849.85	729573.47	0.00	
11800.00	90.57	359.88	8143.57	3832.72	3832.71	-8.04	417949.84	729573.26	0.00	
11900.00	90.57	359.88	8142.57	3932.72	3932.71	-8.25	418049.84	729573.05	0.00	
12000.00	90.57	359.88	8141.56	4032.71	4032.70	-8.46	418149.83	729572.84	0.00	
12100.00	90.57	359.88	8140.56	4132.71	4132.70	-8.67	418249.83	729572.63	0.00	
12200.00	90.57	359.88	8139.56	4232.70	4232.69	-8.88	418349.82	729572.42	0.00	
12300.00	90.57	359.88	8138.56	4332.70	4332.69	-9.09	418449.82	729572.21	0.00	
12400.00	90.57	359.88	8137.55	4432.69	4432.68	-9.30	418549.81	729572.00	0.00	
12500.00	90.57	359.88	8136.55	4532.69	4532.68	-9.51	418649.81	729571.79	0.00	
12600.00	90.57	359.88	8135.55	4632.68	4632.67	-9.72	418749.80	729571.58	0.00	
12700.00	90.57	359.88	8134.55	4732.68	4732.67	-9.93	418849.80	729571.37	0.00	
12800.00	90.57	359.88	8133.54	4832.67	4832.66	-10.14	418949.79	729571.16	0.00	
12900.00	90.57	359.88	8132.54	4932.67	4932.66	-10.35	419049.79	729570.95	0.00	
13000.00	90.57	359.88	8131.54	5032.66	5032.65	-10.56	419149.78	729570.74	0.00	
13100.00	90.57	359.88	8130.54	5132.66	5132.65	-10.77	419249.78	729570.53	0.00	
13153.60	90.57	359.88	8130.00	5186.25	5186.24	-10.88	419303.37	729570.42	0.00	PBHL 278H

**Weatherford**

Weatherford Drilling Services

GeoDec4 v2.4.0.0

Report Date: September 28, 2016
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit 278H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM Nad83 NME
Block: _____
Engineer: William Townsend

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 414117.13 US Survey Foot	Latitude: 32.137026 Degree
East: 729581.30 US Survey Foot	Longitude: -103.725171 Degree
Convergence: 0.32°	
Declination: 7.15°	
Total Correction: 6.83°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 m
Latitude = 32° 08' 13.29" N
Longitude = 103° 43' 30.61" W

Magnetic Declination = 7.15 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6827
Local Field Strength = 48033 nT	Magnetic Vector X = 23854 nT
Magnetic Dip = 59.97 deg	Magnetic Vector Y = 2992 nT
Magnetic Model = bggm2016.dat	Magnetic Vector Z = 41583 nT
Run Date = October 15, 2016	Magnetic Vector H = 24041 nT

Signed: _____ Date: _____

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