

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 PRODUCTION CO. L.P. Contact: ERIN WORKMAN E-Mail: ERIN.WORKMAN@DVN.COM		6. If Indian, Allottee or Tribe Name
3a. Address 333 W. SHERIDAN AVENUE OKC, OK 73102	3b. Phone No. (include area code) Ph: 405-552-7970	7. If Unit or CA/Agreement, Name and/or No. 8. Well Name and No. COTTON DRAW UNIT 164H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 11 T25S R31E 330FNL 1980FEL		9. API Well No. 30-015-39376
		10. Field and Pool, or Exploratory COTTON-DRAW, DELAWARE, S- Bone Spring
		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 APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

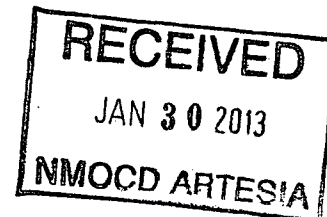
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths 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 Production Company, L.P. respectfully requests to change the existing approved APD with the attached casing, cementing changes.

Attached are the Directional Survey, Drilling plans, and H & P Rig Layout along with certification papers.

Accepted for record
NMOCD

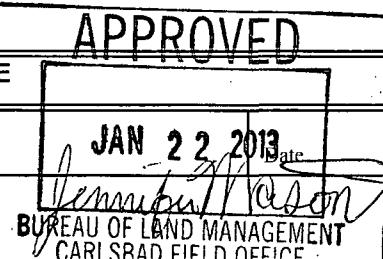
TKS
1/3/2013



14. I hereby certify that the foregoing is true and correct. Electronic Submission #166107 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO., LP, sent to the Hobbs Committed to AFMSS for processing by KURT SIMMONS on 12/19/2012 ()	
Name (Printed/Typed) ERIN WORKMAN	Title REGULATORY COMPLIANCE ASSOC.
Signature (Electronic Submission)	Date 12/17/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____
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 _____



Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Cotton Draw Unit 164H – APD DRILLING PLAN
JSL 12.07.12

Casing Program

See COA

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
17-1/2"	0 – 750 740	13-3/8"	0 – 750 740	48#	STC	H-40
12-1/4"	740 750 – 4,350	9-5/8"	0 – 4,350	40#	LTC	J-55
8-3/4"	4,350 – 9,700	5-1/2"	0 – 9,700	17#	LTC	HCP-110
8-3/4"	9,700 – 14,749	5-1/2"	9,700 – 14749	17#	BTC	HCP-110

No pilot hole.

Design Factors

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13-3/8"	1.98	4.44	8.94
9-5/8" 40# J-55 LTC	1.14	1.75	2.99
5-1/2" 17# HCP-110 LTC	1.89	2.35	2.70
5-1/2" 17# HCP-110 BTC	1.53	2.18	2.27

Mud Program

See COA 740

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 750 740	8.4 – 8.6	28 – 32	N/C	FW
750 – 4,350	9.9 – 10.1	28 – 29	N/C	Brine
4,200 – 14,749	8.7 – 9.4	28 – 29	N/C	FW

Pressure Control Equipment:

The BOP system used to drill the intermediate hole 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 surface casing shoe.

The BOP system used to drill the production hole 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 intermediate casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. 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.

Cementing Program

13-3/8" Surface

Lead: 280 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

Yield: 1.75 cf/sk

TOC @ surface

Tail: 415xx sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg

Yield: 1.35 cf/sk

9-5/8" Intermediate

Lead: 725 sacks (65:35) Class C Cement:Poz (Fly Ash): + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg

Yield: 1.85 cf/sk

TOC @ surface

Tail: 530 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg

Yield: 1.33 cf/sk

5-1/2" Production

Lead: 550 sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.125 lbs/sack Poly-E-Flake + 0.1% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg

Yield: 1.95 cf/sk

Tail: 1950 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg

Yield: 1.22 cf/sk

TOC for All Strings:

Surface: 750ft	0 350 ft Lead 400 ft Tail
Intermediate: 4350ft	0 2850 ft Lead 1500 ft Tail
Production: 14,749	3850ft 3399 ft Lead 7500 ft Tail

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

DEVON ENERGY

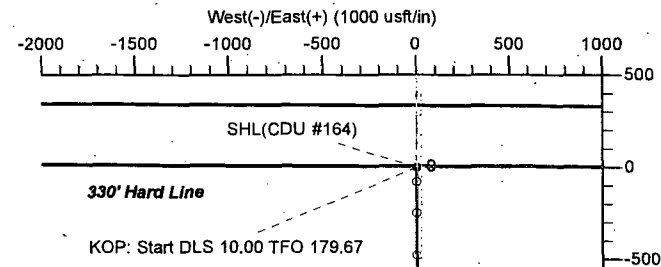
Project: Eddy County, NM (NAD-83)
 Site: Cotton Draw Unit
 Well: 164
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.31°
 Magnetic North: 7.16°

Magnetic Field
 Strength: 48403.1snT
 Dip Angle: 60.05°
 Date: 12/14/2012
 Model: IGRF2010

devon



DESIGN TARGET DETAILS

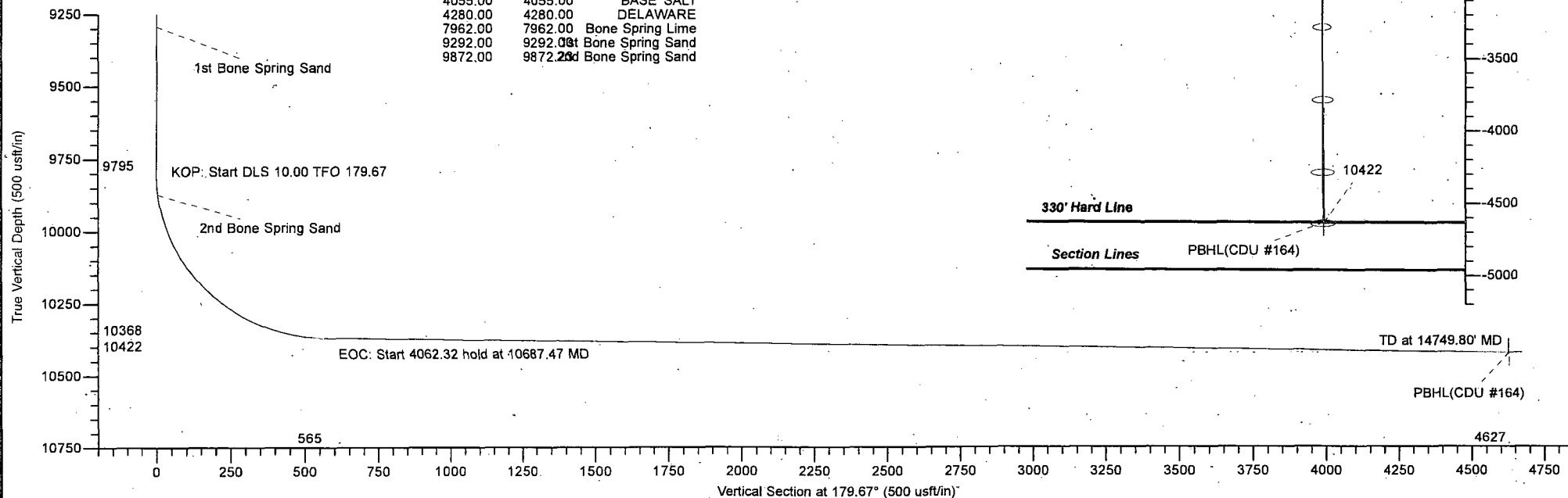
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(CDU #164)	0.00	0.00	0.00	419194.51	722955.98	32° 9' 3.901 N	103° 44' 47.345 W
PBHL(CDU #164)	10422.00	-4627.23	26.31	414567.28	722982.29	32° 8' 18.110 N	103° 44' 47.333 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 10.00 TFO 179.67
2	9795.09	0.00	0.00	9795.09	0.00	0.00	0.00	0.00	0.00	EOC: Start 4062.32 hold at 10687.47 MD
3	10687.47	89.24	179.67	10368.00	-565.33	-3.21	10.00	179.67	565.34	TD at 14749.80' MD
4	14749.80	89.24	179.67	10422.00	-4627.23	26.31	0.00	0.00	4627.30	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
570.00	570.00	RUSTLER
1067.00	1067.00	TOP SALT
4055.00	4055.00	BASE SALT
4280.00	4280.00	DELAWARE
7962.00	7962.00	Bone Spring Lime
9292.00	9292.00	1st Bone Spring Sand
9872.00	9872.00	2nd Bone Spring Sand



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (164/OH)
 Cotton Draw Unit
 Created By: Tyler Carlson
 Date: 16/33, December 14 2012
 Approved: _____ Date: _____

LEAM Drilling Systems LLC
Planning Report

Database:	EDM/5000.1 Single User Db	Local Co-ordinate Reference:	Well 164
Company:	DEVON ENERGY	TVD Reference:	GE 3434' + KB'28' @ 3462'00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3434' + KB'28' @ 3462'00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	164	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Cotton Draw Unit			
Site Position:		Northing:	419,194.51 usft	Latitude: 32° 9' 3.901 N
From:	Map	Easting:	722,955.98 usft	Longitude: 103° 44' 47.345 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.31 °

Well:	164			
Well Position	+N-S	0.00 usft	Northing:	419,194.51 usft
	+E-W	0.00 usft	Easting:	722,955.98 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:		Ground Level: 3,434.00 usft

Wellbore:	OH			
Magnetics	Model Name	Sample Date	Declination	Dip Angle
			(°)	(°)
	IGRF2010	12/14/12	7.48	60.05
				Field Strength (nT)
				48,403

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	179.67

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,795.09	0.00	0.00	9,795.09	0.00	0.00	0.00	0.00	0.00	0.00	
10,687.47	89.24	179.67	10,368.00	-565.33	3.21	10.00	10.00	20.13	179.67	
14,749.80	89.24	179.67	10,422.00	-4,627.23	26.31	0.00	0.00	0.00	0.00	PBHL(CDU #164)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well: 164
Company:	DEVON ENERGY	TVD Reference:	GE 3434 + KB 28 @ 3462.00usft (Cactus 105)
Project:	Eddy County NM (NAD-83)	MD Reference:	GE 3434 + KB 28 @ 3462.00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	164	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N-S (usft)	E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
570.00	0.00	0.00	570.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSTLER									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,067.00	0.00	0.00	1,067.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP SALT									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,055.00	0.00	0.00	4,055.00	0.00	0.00	0.00	0.00	0.00	0.00
BASE SALT									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,280.00	0.00	0.00	4,280.00	0.00	0.00	0.00	0.00	0.00	0.00
DELAWARE									
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 184
Company:	DEVON ENERGY	TVD Reference:	GE 3434' + KB 28' @ 3462.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3434' + KB 28' @ 3462.00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	184	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N-S (usft)	E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,962.00	0.00	0.00	7,962.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bone/Spring Line										
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,292.00	0.00	0.00	9,292.00	0.00	0.00	0.00	0.00	0.00	0.00	

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: 184
Company:	DEVON ENERGY	TVD Reference:	GE 3434' + KB'28' @ 3462.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3434' + KB'28' @ 3462.00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	184	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1st Bone Spring Sand									
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,795.09	0.00	0.00	9,795.09	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 10:00 TFO 179.67									
9,800.00	0.49	179.67	9,800.00	-0.02	0.00	0.02	10.00	10.00	0.00
9,850.00	5.49	179.67	9,849.92	-2.63	0.01	2.63	10.00	10.00	0.00
9,872.23	7.71	179.67	9,872.00	-5.19	0.03	5.19	10.00	10.00	0.00
2nd Bone Spring Sand									
9,900.00	10.49	179.67	9,899.41	-9.58	0.05	9.58	10.00	10.00	0.00
9,950.00	15.49	179.67	9,948.12	-20.81	0.12	20.81	10.00	10.00	0.00
10,000.00	20.49	179.67	9,995.66	-36.25	0.21	36.25	10.00	10.00	0.00
10,050.00	25.49	179.67	10,041.67	-55.77	0.32	55.78	10.00	10.00	0.00
10,100.00	30.49	179.67	10,085.81	-79.23	0.45	79.23	10.00	10.00	0.00
10,150.00	35.49	179.67	10,127.74	-106.45	0.61	106.45	10.00	10.00	0.00
10,200.00	40.49	179.67	10,167.13	-137.22	0.78	137.22	10.00	10.00	0.00
10,250.00	45.49	179.67	10,203.69	-171.30	0.97	171.30	10.00	10.00	0.00
10,300.00	50.49	179.67	10,237.14	-208.44	1.19	208.44	10.00	10.00	0.00
10,350.00	55.49	179.67	10,267.23	-248.35	1.41	248.36	10.00	10.00	0.00
10,400.00	60.49	179.67	10,293.72	-290.74	1.65	290.74	10.00	10.00	0.00
10,450.00	65.49	179.67	10,316.42	-335.27	1.91	335.27	10.00	10.00	0.00
10,500.00	70.49	179.67	10,335.15	-381.61	2.17	381.62	10.00	10.00	0.00
10,550.00	75.49	179.67	10,349.78	-429.41	2.44	429.41	10.00	10.00	0.00
10,600.00	80.49	179.67	10,360.18	-478.30	2.72	478.30	10.00	10.00	0.00
10,650.00	85.49	179.67	10,366.27	-527.91	3.00	527.91	10.00	10.00	0.00
10,687.47	89.24	179.67	10,368.00	-565.33	3.21	565.34	10.00	10.00	0.00
EOC: Start 4062.32 hold at 10687.47 MD									
10,700.00	89.24	179.67	10,368.16	-577.86	3.29	577.87	0.00	0.00	0.00
10,800.00	89.24	179.67	10,369.49	-677.85	3.85	677.86	0.00	0.00	0.00
10,900.00	89.24	179.67	10,370.82	-777.84	4.42	777.85	0.00	0.00	0.00
11,000.00	89.24	179.67	10,372.15	-877.83	4.99	877.84	0.00	0.00	0.00
11,100.00	89.24	179.67	10,373.48	-977.82	5.56	977.83	0.00	0.00	0.00
11,200.00	89.24	179.67	10,374.81	-1,077.81	6.13	1,077.82	0.00	0.00	0.00
11,300.00	89.24	179.67	10,376.14	-1,177.79	6.70	1,177.81	0.00	0.00	0.00
11,400.00	89.24	179.67	10,377.47	-1,277.78	7.27	1,277.81	0.00	0.00	0.00
11,500.00	89.24	179.67	10,378.80	-1,377.77	7.83	1,377.80	0.00	0.00	0.00
11,600.00	89.24	179.67	10,380.13	-1,477.76	8.40	1,477.79	0.00	0.00	0.00
11,700.00	89.24	179.67	10,381.46	-1,577.75	8.97	1,577.78	0.00	0.00	0.00
11,800.00	89.24	179.67	10,382.79	-1,677.74	9.54	1,677.77	0.00	0.00	0.00
11,900.00	89.24	179.67	10,384.12	-1,777.73	10.11	1,777.76	0.00	0.00	0.00
12,000.00	89.24	179.67	10,385.45	-1,877.72	10.68	1,877.75	0.00	0.00	0.00
12,100.00	89.24	179.67	10,386.77	-1,977.71	11.25	1,977.74	0.00	0.00	0.00
12,200.00	89.24	179.67	10,388.10	-2,077.70	11.81	2,077.73	0.00	0.00	0.00
12,300.00	89.24	179.67	10,389.43	-2,177.69	12.38	2,177.73	0.00	0.00	0.00
12,400.00	89.24	179.67	10,390.76	-2,277.68	12.95	2,277.72	0.00	0.00	0.00
12,500.00	89.24	179.67	10,392.09	-2,377.67	13.52	2,377.71	0.00	0.00	0.00
12,600.00	89.24	179.67	10,393.42	-2,477.66	14.09	2,477.70	0.00	0.00	0.00
12,700.00	89.24	179.67	10,394.75	-2,577.65	14.66	2,577.69	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM/5000.1/Single User Db	Local Co-ordinate Reference:	Well#164
Company:	DEVON ENERGY	TVD Reference:	GE/3434 + KB/28 @ 3462.00usft (Cactus 105)
Project:	Eddy County NM (NAD:83)	MD Reference:	GE/3434 + KB/28 @ 3462.00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	164	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Finished Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,800.00	89.24	179.67	10,396.08	-2,677.64	15.22	2,677.68	0.00	0.00	0.00	
12,900.00	89.24	179.67	10,397.41	-2,777.63	15.79	2,777.67	0.00	0.00	0.00	
13,000.00	89.24	179.67	10,398.74	-2,877.62	16.36	2,877.66	0.00	0.00	0.00	
13,100.00	89.24	179.67	10,400.07	-2,977.61	16.93	2,977.65	0.00	0.00	0.00	
13,200.00	89.24	179.67	10,401.40	-3,077.60	17.50	3,077.65	0.00	0.00	0.00	
13,300.00	89.24	179.67	10,402.73	-3,177.59	18.07	3,177.64	0.00	0.00	0.00	
13,400.00	89.24	179.67	10,404.06	-3,277.58	18.64	3,277.63	0.00	0.00	0.00	
13,500.00	89.24	179.67	10,405.39	-3,377.56	19.20	3,377.62	0.00	0.00	0.00	
13,600.00	89.24	179.67	10,406.72	-3,477.55	19.77	3,477.61	0.00	0.00	0.00	
13,700.00	89.24	179.67	10,408.04	-3,577.54	20.34	3,577.60	0.00	0.00	0.00	
13,800.00	89.24	179.67	10,409.37	-3,677.53	20.91	3,677.59	0.00	0.00	0.00	
13,900.00	89.24	179.67	10,410.70	-3,777.52	21.48	3,777.58	0.00	0.00	0.00	
14,000.00	89.24	179.67	10,412.03	-3,877.51	22.05	3,877.58	0.00	0.00	0.00	
14,100.00	89.24	179.67	10,413.36	-3,977.50	22.62	3,977.57	0.00	0.00	0.00	
14,200.00	89.24	179.67	10,414.69	-4,077.49	23.18	4,077.56	0.00	0.00	0.00	
14,300.00	89.24	179.67	10,416.02	-4,177.48	23.75	4,177.55	0.00	0.00	0.00	
14,400.00	89.24	179.67	10,417.35	-4,277.47	24.32	4,277.54	0.00	0.00	0.00	
14,500.00	89.24	179.67	10,418.68	-4,377.46	24.89	4,377.53	0.00	0.00	0.00	
14,600.00	89.24	179.67	10,420.01	-4,477.45	25.46	4,477.52	0.00	0.00	0.00	
14,700.00	89.24	179.67	10,421.34	-4,577.44	26.03	4,577.51	0.00	0.00	0.00	
14,749.80	89.24	179.67	10,422.00	-4,627.23	26.31	4,627.30	0.00	0.00	0.00	
TD at 14749.80 MD										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL(CDU #164)	- plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	419,194.51	722,955.98	32° 9' 3.901 N	103° 44' 47.345 W
PBHL(CDU #164)	- plan hits target center - Point	0.00	0.00	10,422.00	-4,627.23	26.31	414,567.28	722,982.29	32° 8' 18.110 N	103° 44' 47.333 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
570.00	570.00	RUSTLER				
1,067.00	1,067.00	TOP SALT				
4,055.00	4,055.00	BASE SALT				
4,280.00	4,280.00	DELAWARE				
7,962.00	7,962.00	Bone Spring Lime				
9,292.00	9,292.00	1st Bone Spring Sand				
9,872.23	9,872.00	2nd Bone Spring Sand				

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 184
Company:	DEVON ENERGY	TVD Reference:	GE 3434' + KB:28' @ 3462'00usft (Cactus 105)
Project:	Eddy County NM (NAD-83)	MD Reference:	GE 3434' + KB:28' @ 3462'00usft (Cactus 105)
Site:	Cotton Draw Unit	North Reference:	Grid
Well:	184	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,795.09	9,795.09	0.00	0.00	KOP: Start DLS 10.00 TFO 179.67
10,687.47	10,368.00	-565.33	3.21	EOC: Start 4062.32 hold at 10687.47 MD
14,749.80	10,422.00	-4,627.23	26.31	TD at 14749.80' MD

MD	INC	AZI	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00

4600.00	0.00	0.00	4600.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00
6300.00	0.00	0.00	6300.00	0.00	0.00
6400.00	0.00	0.00	6400.00	0.00	0.00
6500.00	0.00	0.00	6500.00	0.00	0.00
6600.00	0.00	0.00	6600.00	0.00	0.00
6700.00	0.00	0.00	6700.00	0.00	0.00
6800.00	0.00	0.00	6800.00	0.00	0.00
6900.00	0.00	0.00	6900.00	0.00	0.00
7000.00	0.00	0.00	7000.00	0.00	0.00
7100.00	0.00	0.00	7100.00	0.00	0.00
7200.00	0.00	0.00	7200.00	0.00	0.00
7300.00	0.00	0.00	7300.00	0.00	0.00
7400.00	0.00	0.00	7400.00	0.00	0.00
7500.00	0.00	0.00	7500.00	0.00	0.00
7600.00	0.00	0.00	7600.00	0.00	0.00
7700.00	0.00	0.00	7700.00	0.00	0.00
7800.00	0.00	0.00	7800.00	0.00	0.00
7900.00	0.00	0.00	7900.00	0.00	0.00
8000.00	0.00	0.00	8000.00	0.00	0.00
8100.00	0.00	0.00	8100.00	0.00	0.00
8200.00	0.00	0.00	8200.00	0.00	0.00
8300.00	0.00	0.00	8300.00	0.00	0.00
8400.00	0.00	0.00	8400.00	0.00	0.00
8500.00	0.00	0.00	8500.00	0.00	0.00
8600.00	0.00	0.00	8600.00	0.00	0.00
8700.00	0.00	0.00	8700.00	0.00	0.00
8800.00	0.00	0.00	8800.00	0.00	0.00
8900.00	0.00	0.00	8900.00	0.00	0.00
9000.00	0.00	0.00	9000.00	0.00	0.00
9100.00	0.00	0.00	9100.00	0.00	0.00
9200.00	0.00	0.00	9200.00	0.00	0.00

9300.00	0.00	0.00	9300.00	0.00	0.00
9400.00	0.00	0.00	9400.00	0.00	0.00
9500.00	0.00	0.00	9500.00	0.00	0.00
9600.00	0.00	0.00	9600.00	0.00	0.00
9700.00	0.00	0.00	9700.00	0.00	0.00
9795.09	0.00	0.00	9795.09	0.00	0.00
9800.00	0.49	179.67	9800.00	-0.02	0.00
9850.00	5.49	179.67	9849.92	-2.63	0.01
9900.00	10.49	179.67	9899.41	-9.58	0.05
9950.00	15.49	179.67	9948.12	-20.81	0.12
10000.00	20.49	179.67	9995.66	-36.25	0.21
10050.00	25.49	179.67	10041.67	-55.77	0.32
10100.00	30.49	179.67	10085.81	-79.23	0.45
10150.00	35.49	179.67	10127.74	-106.45	0.61
10200.00	40.49	179.67	10167.13	-137.22	0.78
10250.00	45.49	179.67	10203.69	-171.30	0.97
10300.00	50.49	179.67	10237.14	-208.44	1.19
10350.00	55.49	179.67	10267.23	-248.35	1.41
10400.00	60.49	179.67	10293.72	-290.74	1.65
10450.00	65.49	179.67	10316.42	-335.27	1.91
10500.00	70.49	179.67	10335.15	-381.61	2.17
10550.00	75.49	179.67	10349.78	-429.41	2.44
10600.00	80.49	179.67	10360.18	-478.30	2.72
10650.00	85.49	179.67	10366.27	-527.91	3.00
10687.47	89.24	179.67	10368.00	-565.33	3.21
10700.00	89.24	179.67	10368.16	-577.86	3.29
10800.00	89.24	179.67	10369.49	-677.85	3.85
10900.00	89.24	179.67	10370.82	-777.84	4.42
11000.00	89.24	179.67	10372.15	-877.83	4.99
11100.00	89.24	179.67	10373.48	-977.82	5.56
11200.00	89.24	179.67	10374.81	-1077.81	6.13
11300.00	89.24	179.67	10376.14	-1177.79	6.70
11400.00	89.24	179.67	10377.47	-1277.78	7.27
11500.00	89.24	179.67	10378.80	-1377.77	7.83
11600.00	89.24	179.67	10380.13	-1477.76	8.40
11700.00	89.24	179.67	10381.46	-1577.75	8.97
11800.00	89.24	179.67	10382.79	-1677.74	9.54
11900.00	89.24	179.67	10384.12	-1777.73	10.11
12000.00	89.24	179.67	10385.45	-1877.72	10.68
12100.00	89.24	179.67	10386.77	-1977.71	11.25
12200.00	89.24	179.67	10388.10	-2077.70	11.81
12300.00	89.24	179.67	10389.43	-2177.69	12.38
12400.00	89.24	179.67	10390.76	-2277.68	12.95
12500.00	89.24	179.67	10392.09	-2377.67	13.52
12600.00	89.24	179.67	10393.42	-2477.66	14.09
12700.00	89.24	179.67	10394.75	-2577.65	14.66
12800.00	89.24	179.67	10396.08	-2677.64	15.22

12900.00	89.24	179.67	10397.41	-2777.63	15.79
13000.00	89.24	179.67	10398.74	-2877.62	16.36
13100.00	89.24	179.67	10400.07	-2977.61	16.93
13200.00	89.24	179.67	10401.40	-3077.60	17.50
13300.00	89.24	179.67	10402.73	-3177.59	18.07
13400.00	89.24	179.67	10404.06	-3277.58	18.64
13500.00	89.24	179.67	10405.39	-3377.56	19.20
13600.00	89.24	179.67	10406.72	-3477.55	19.77
13700.00	89.24	179.67	10408.04	-3577.54	20.34
13800.00	89.24	179.67	10409.37	-3677.53	20.91
13900.00	89.24	179.67	10410.70	-3777.52	21.48
14000.00	89.24	179.67	10412.03	-3877.51	22.05
14100.00	89.24	179.67	10413.36	-3977.50	22.62
14200.00	89.24	179.67	10414.69	-4077.49	23.18
14300.00	89.24	179.67	10416.02	-4177.48	23.75
14400.00	89.24	179.67	10417.35	-4277.47	24.32
14500.00	89.24	179.67	10418.68	-4377.46	24.89
14600.00	89.24	179.67	10420.01	-4477.45	25.46
14700.00	89.24	179.67	10421.34	-4577.44	26.03
14749.80	89.24	179.67	10422.00	-4627.23	26.31



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

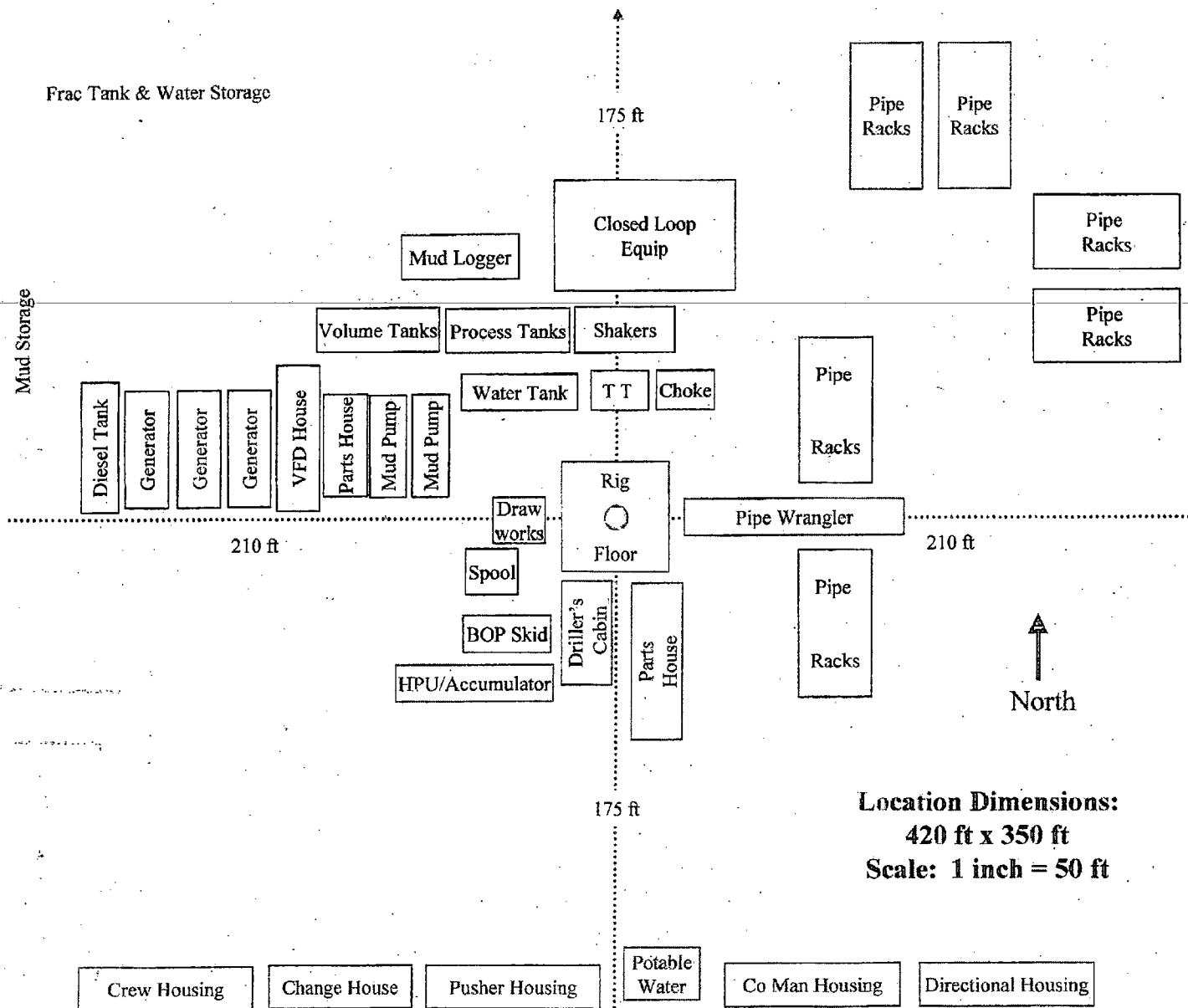
Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittonmore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



H&P Flex Rig Location Layout



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 30-015-39376		² Pool Code	³ Pool Name BONE SPRING
⁴ Property Code	⁵ Property Name COTTON DRAW UNIT		⁶ Well Number 164 H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3433.7

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
B	11	25 S	31 E		330	NORTH	1980	EAST	EDDY

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	11	25 S	31 E		330	SOUTH	1980	EAST	EDDY

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.

NW CORNER SEC. 11 LAT. = 32.152267°N LONG. = 103.757231°W NMSP EAST (FT) N = 419545.75 E = 719636.14		NE CORNER SEC. 11 LAT. = 32.152115°N LONG. = 103.740115°W NMSP EAST (FT) N = 419519.18 E = 724934.87
COTTON DRAW UNIT #164 ELEV. = 3433.7 LAT. = 32.151252°N (NAD83) LONG. = 103.746513°W NMSP EAST (FT) N = 419194.51 E = 722955.98		
BOTTOM OF HOLE LAT. = 32.138536°N (NAD83) LONG. = 103.746509°W NMSP EAST (FT) N = 414567.28 E = 722982.29		
SW CORNER SEC. 11 LAT. = 32.137720°N LONG. = 103.757215°W NMSP EAST (FT) N = 414252.44 E = 719669.48	SE CORNER SEC. 11 LAT. = 32.137574°N LONG. = 103.740112°W NMSP EAST (FT) N = 414228.19 E = 724964.94	

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: *Judy A. Barnett* Date: 1/3/13

Printed Name: Judy A. Barnett Regulatory Specialist

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.

NOVEMBER 29, 2010

Date of Survey: _____

Signature and Seal of Professional Surveyor: *[Signature]*

Certificate Number: ELIJAH F. JARAMILLO, PLS 12797

SURVEY NO. 336