

R-111-POTASH

QCD Artesia

Form 3160-3
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

EA 11-354

5. Lease Serial No.
NM-0405444A; 0418220A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

Aldabra 27 Fed Com 3H

9. API Well No.

30-015-38627

10. Field and Pool, or Exploratory
Single Wells, Ua Bone Spring

11. Sec., T. R. M. or Blk. and Survey or Area

SEC 27 T23S R31E

12. County or Parish

Eddy County

13. State

NM

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Devon Energy Production Company, LP

3a. Address 20 North Broadway
Oklahoma City, Oklahoma City 73102-82603b. Phone No. (include area code)
405-228-8699

4. Location of Well (Report location clearly and in accordance with any State requirements.)

At surface 200 FSL & 1650 FWL (Unit N) PP: 200 FSL & 1650 FWL

At proposed prod. zone 2600 FSL & 1650 FWL Unit K SEC 22

14. Distance in miles and direction from nearest town or post office*
Approximately 22 miles east of Loving, NM.15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)

200'

16. No. of acres in lease

1240 Acres 720 Acres

17. Spacing Unit dedicated to this well

240 Acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

See Attached Map

19. Proposed Depth

16,658' MD 8880' TVD

20. BLM/BIA Bond No. on file

CO-1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3413' GL

22. Approximate date work will start*

23. Estimated duration
45 days

24. Attachments: Aldabra 27 Fed 2H, 3H and 4H will be pad drilled

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office).4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the
authorized officer.

25. Signature

Title

Regulatory Specialist

Name (Printed/Typed)

Judy A. Barnett

Date

01/06/2011

Approved by (Signature)

/s/ Jesse J. Juen

Name (Printed/Typed)

/s/ Jesse J. Juen

Date

MAR 07 2011

Title

FOR STATE DIRECTOR

Office

NM STATE OFFICE

Application approval 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.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

*(Instructions on page 2)

Kz 03/31/11

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVALAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

*

OCD CONDITION OF APPROVAL for Drilling:
Intent to drill ONLY --- CANNOT produce until the Non-Standard
Location has been approved by OCD Santa Fe office.

DRILLING PROGRAM

Devon Energy Production Company, LP

Aldabra 27 Fed Com 3H

Surface Location: 200' FSL & 1650' FWL, Unit N, Sec 27 T23S R31E, Eddy, NM

Bottom Hole Location: 2600' FSL & 1650' FWL, Unit K, Sec 22 T23S R31E, Eddy, NM

1. Geologic Name of Surface Formation

a. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

a. Quaternary	180'	Fresh Water
b. Rustler Dol	525'	
c. Salado Salt	836'	
d. Base of Salt	4039'	
e. Lamar	4284'	Oil
f. Bell Canyon	4324'	Oil
g. Cherry Canyon	5211'	Oil
h. Brushy Canyon	6475'	Oil
i. Avalon/Top of Bone Spring FM	8131'	Oil/Gas
Total Depth	16,358'	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 625' and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4250 and circulating cement to surface. The Bone Spring intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement to surface..

Casing Program:

<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"	0-625'	13 3/8"	0'-625'	48#	ST&C	H-40
12 1/4"	625-4250'	9 5/8"	0'-4250'	40#	LT&C	J-55
8 3/4"	4250-7500'	5 1/2"	0'-7500'	17#	LT&C	HCP-110
8 3/4"	7500-16,358	5 1/2"	7500-16,358'	17#	BT&C	HCP-110

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13 3/8"	2.63	5.91	10.73
9 5/8" 40#	1.16	1.79	3.06
5 1/2" 17# LTC	2.13	3.03	1.60
5 1/2" 17# BTC	1.77	2.53	3.63

(All cement volumes are based upon at least 25% excess)

3.

Cement Program:

13 3/8" Surface

Lead: 500 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg **Yield:** 1.75 cf/sk

TOC @ surface

Tail: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg **Yield:** 1.35 cf/sk

9 5/8" Intermediate

Lead: 1,200 sacks (35:65) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg **Yield:** 2.04 cf/sk

TOC @ surface

Tail: 300 sacks (60:40) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 ppg **Yield:** 1.37 cf/sk

5 1/2" Production

1st Stage

Lead: 560 sacks (35:65) Poz (Fly Ash): Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg **Yield:** 2.01 cf/sk

Tail: 2,200 sacks (50:50) Poz (Fly Ash): Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg **Yield:** 1.28 cf/sk

DV TOOL at 6,000'

2nd Stage

Lead: 325 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg **Yield:** 2.88 cf/sk

Tail: 100 sacks (60:40) Poz (Fly Ash): Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg **Yield:** 1.37 cf/sk

DV TOOL at 3,800'

3rd Stage

Lead: 375 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg **Yield:** 2.91 cf/sk

TOC @ surface

Tail: 100 sacks (60:40) Poz (Fly Ash): Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg **Yield:** 1.37 cf/sk

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

All casing is new and API approved.

Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M ~~Double~~ ^{Triple} 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~~ ^{Triple} 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.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

See *
COA

See COA for
DV-Tool
& cement

See
COA

Proposed Mud Circulation System

See
COA

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 625'	8.4-9.0	30-34	NC	FW
625' - 4250'	9.8-10.0	28-32	NC	Brine
4250' - 16,358'	8.6-9.0	28-32	NC	FW

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

4. **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.

5. **Logging, Coring, and Testing Program:**

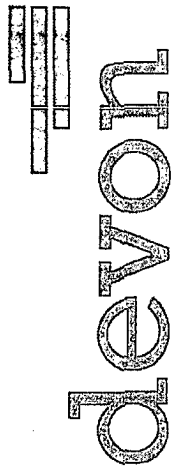
- See
COA
- Drill stem tests will be based on geological sample shows.
 - If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
 - The open hole electrical logging program will be:
 - Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper.
 - Total Depth to Surface Compensated Neutron with Gamma Ray
 - No coring program is planned
 - Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

6. **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 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4200 psi and Estimated BHT 140°. No H2S is anticipated to be encountered.

7. **Anticipated Starting Date and Duration of Operations:**

- See
COA
- Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. 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 well and construct surface facilities and/or lay flow lines in order to place well on production. Depending on rig availability, Devon may set the surface casing using an Ashton Oilfield Services rig. The rig plat is attached. This rig will be used only to set the surface casing and will leave the location once the surface casing has been run and cemented. Another rig will drill the remainder of the wellbore. The reasons for using the smaller rig to set surface are: rig availability and economics.

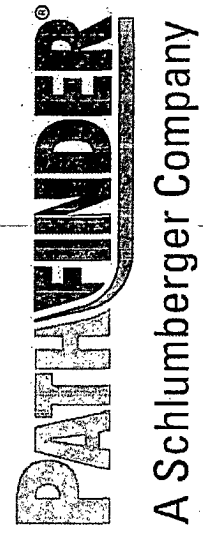


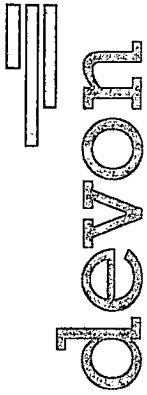
Devon Energy, Inc.
Eddy County
Aldabra "27" Fed
#3H
OH

Plan: Plan #1

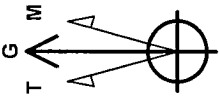
Pathfinder X & Y Planning Report

05 October, 2010





PROJECT DETAILS: Eddy 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



Azimuths to Grid North
True North: -0.30°
Magnetic North: 7.45°
Magnetic Field
Strength: 48724.8snT
Dip Angle: 60.23°
Date: 10/05/2010
Model: IGRF200510

Project: Eddy County
Site: Aldabra "27" Fed
Well: #3H
Wellbore: OH
Plan: Plan #1 (#3H/OH)

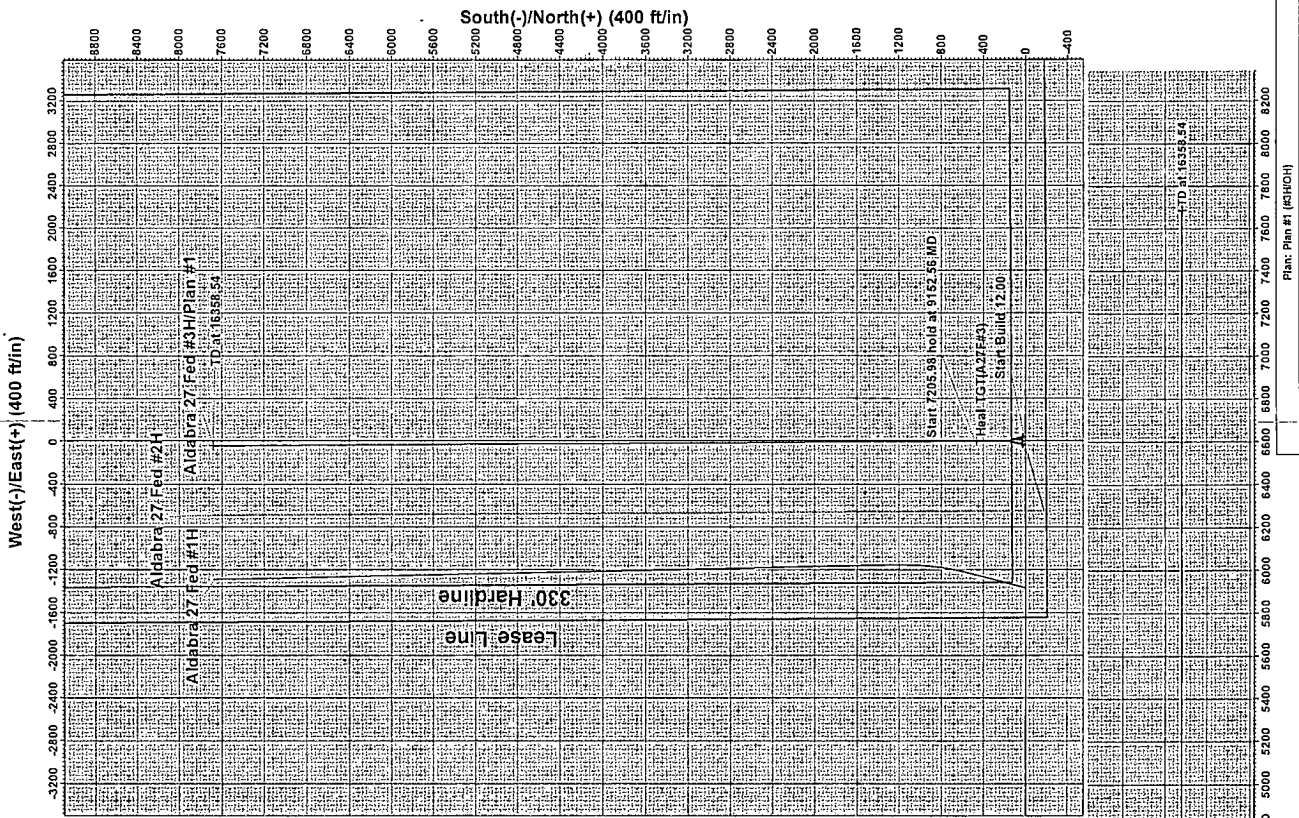
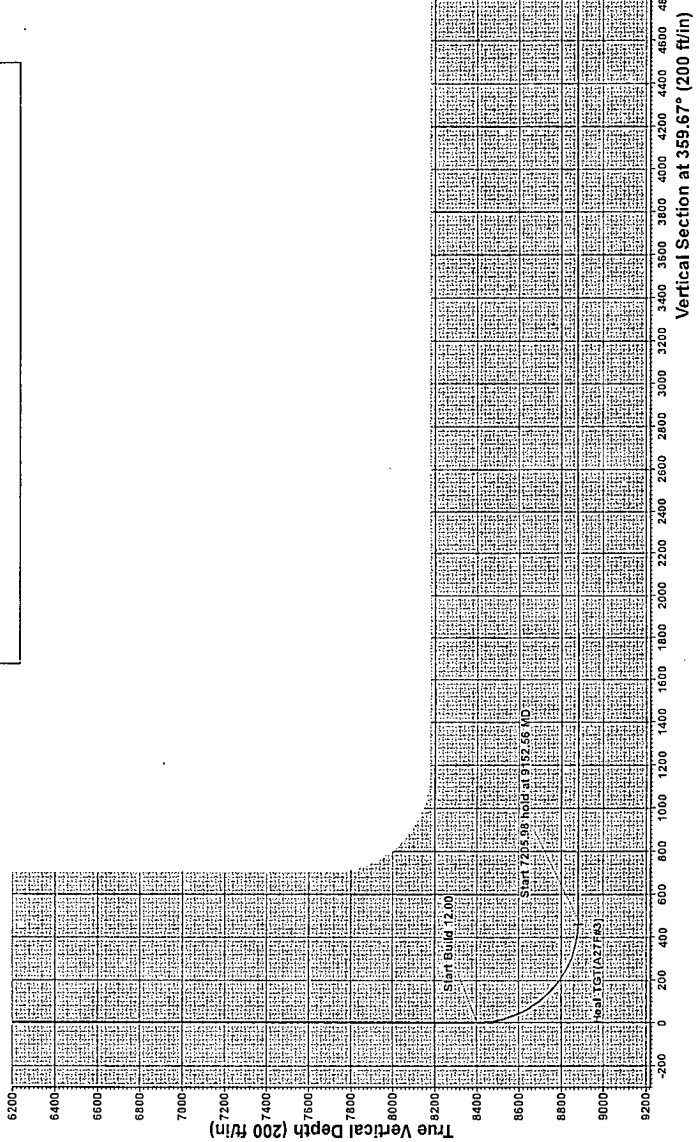
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	DLeg	TFace	VSec Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	8402.50	0.00	0.00	8402.50	0.00	0.00	0.00	0.00	0.00
3	1356.56	0.00	359.57	8880.00	477.49	0.00	0.00	477.50	0.00
4	18356.54	90.00	359.57	8880.00	7693.36	-44.25	0.00	7693.46	PBH(A27F#3)

WELL DETAILS: #3H
Ground Elevation: 3413.40
RKB Elevation: H&P #416 @ 3439.40R (25' KB Correction)
Rig Name: 25' KB Correction

+N/S	+E/W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	461558.510	715802.150	32° 16' 7.455 N	103° 48' 7.946 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
Heal TGT(A27F#3)	8880.00	459.97	-2.80	462418.480	715759.550	Point
PBH(A27F#3)	8880.00	7693.36	-43.64	469641.870	715758.510	Point





Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #3H
TVD Reference: H&P #416 @ 3438.40ft (25' KB Correction)
MD Reference: H&P #416 @ 3438.40ft (25' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project	Eddy County	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Aldabra "27" Fed		
Site Position:			
From:	Map	Northings:	461,950.580 ft
Position Uncertainty:	2.00 ft	Easting:	714,427.100 ft
		Slot Radius:	6-1/8 "
		Latitude:	32° 16' 7.447 N
		Longitude:	103° 46' 23.961 W
		Grid Convergence:	0.30 °

Well	#3H		
Well Position	+N/-S	Northings:	461,958.510 ft
	+E/-W	Easting:	715,802.150 ft
Position Uncertainty	2.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 16' 7.455 N
		Longitude:	103° 46' 7.946 W
		Ground Level:	3,413.40 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/05/10	7.75	60.23	48,725

Design	Plan #1		
Audit Notes:			
Version:			
Vertical Section:	Depth From (TVD) (ft)	Phase: PLAN	Tie On Depth: +N/-S (ft)
	0.00		+E/-W (ft)
			0.00
			Direction (°)
			359.67

Survey Tool Program	Date	10/05/10	
From	To		
(ft)	(ft)		
0.00	16,358.54	Survey (Wellbore)	Description
	Plan #1 (OH)	Pathfinder	Pathfinder MWD



Pathfinder
Pathfinder X & Y Planning Report



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Project: Eddy County
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Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
H&P #416 @ 3438.40ft (25' KB Correction)
H&P #416 @ 3438.40ft (25' KB Correction)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	-3,438.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
100.00	0.00	0.00	100.00	-3,338.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
200.00	0.00	0.00	200.00	-3,238.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
300.00	0.00	0.00	300.00	-3,138.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
400.00	0.00	0.00	400.00	-3,038.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
500.00	0.00	0.00	500.00	-2,938.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
600.00	0.00	0.00	600.00	-2,838.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
700.00	0.00	0.00	700.00	-2,738.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
800.00	0.00	0.00	800.00	-2,638.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
900.00	0.00	0.00	900.00	-2,538.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,000.00	0.00	0.00	1,000.00	-2,438.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,100.00	0.00	0.00	1,100.00	-2,338.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,200.00	0.00	0.00	1,200.00	-2,238.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,300.00	0.00	0.00	1,300.00	-2,138.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,400.00	0.00	0.00	1,400.00	-2,038.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,500.00	0.00	0.00	1,500.00	-1,938.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,600.00	0.00	0.00	1,600.00	-1,838.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,700.00	0.00	0.00	1,700.00	-1,738.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,800.00	0.00	0.00	1,800.00	-1,638.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
1,900.00	0.00	0.00	1,900.00	-1,538.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,000.00	0.00	0.00	2,000.00	-1,438.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,100.00	0.00	0.00	2,100.00	-1,338.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,200.00	0.00	0.00	2,200.00	-1,238.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,300.00	0.00	0.00	2,300.00	-1,138.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,400.00	0.00	0.00	2,400.00	-1,038.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,500.00	0.00	0.00	2,500.00	-938.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,600.00	0.00	0.00	2,600.00	-838.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15



Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
H&P #416 @ 3438.40ft (25' KB Correction)
H&P #416 @ 3438.40ft (25' KB Correction)
Grid
Minimum Curvature
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MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-738.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,800.00	0.00	0.00	2,800.00	-638.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
2,900.00	0.00	0.00	2,900.00	-538.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,000.00	0.00	0.00	3,000.00	-438.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,100.00	0.00	0.00	3,100.00	-338.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,200.00	0.00	0.00	3,200.00	-238.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,300.00	0.00	0.00	3,300.00	-138.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,400.00	0.00	0.00	3,400.00	-38.40	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,500.00	0.00	0.00	3,500.00	61.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,600.00	0.00	0.00	3,600.00	161.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,700.00	0.00	0.00	3,700.00	261.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,800.00	0.00	0.00	3,800.00	361.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
3,900.00	0.00	0.00	3,900.00	461.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,000.00	0.00	0.00	4,000.00	561.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,100.00	0.00	0.00	4,100.00	661.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,200.00	0.00	0.00	4,200.00	761.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,300.00	0.00	0.00	4,300.00	861.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,400.00	0.00	0.00	4,400.00	961.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,500.00	0.00	0.00	4,500.00	1,061.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,600.00	0.00	0.00	4,600.00	1,161.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,700.00	0.00	0.00	4,700.00	1,261.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,800.00	0.00	0.00	4,800.00	1,361.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
4,900.00	0.00	0.00	4,900.00	1,461.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,000.00	0.00	0.00	5,000.00	1,561.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,100.00	0.00	0.00	5,100.00	1,661.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,200.00	0.00	0.00	5,200.00	1,761.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,300.00	0.00	0.00	5,300.00	1,861.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15



Pathfinder
Pathfinder X & Y Planning Report



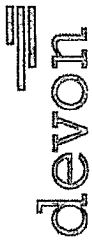
Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
H&P #416 @ 3438.40ft (25' KB Correction)
H&P #416 @ 3438.40ft (25' KB Correction)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
5,400.00	0.00	0.00	5,400.00	1,961.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,500.00	0.00	0.00	5,500.00	2,061.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,600.00	0.00	0.00	5,600.00	2,161.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,700.00	0.00	0.00	5,700.00	2,261.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,800.00	0.00	0.00	5,800.00	2,361.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
5,900.00	0.00	0.00	5,900.00	2,461.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,000.00	0.00	0.00	6,000.00	2,561.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,100.00	0.00	0.00	6,100.00	2,661.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,200.00	0.00	0.00	6,200.00	2,761.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,300.00	0.00	0.00	6,300.00	2,861.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,400.00	0.00	0.00	6,400.00	2,961.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,500.00	0.00	0.00	6,500.00	3,061.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,600.00	0.00	0.00	6,600.00	3,161.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,700.00	0.00	0.00	6,700.00	3,261.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,800.00	0.00	0.00	6,800.00	3,361.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
6,900.00	0.00	0.00	6,900.00	3,461.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,000.00	0.00	0.00	7,000.00	3,561.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,100.00	0.00	0.00	7,100.00	3,661.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,200.00	0.00	0.00	7,200.00	3,761.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,300.00	0.00	0.00	7,300.00	3,861.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,400.00	0.00	0.00	7,400.00	3,961.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,500.00	0.00	0.00	7,500.00	4,061.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,600.00	0.00	0.00	7,600.00	4,161.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,700.00	0.00	0.00	7,700.00	4,261.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,800.00	0.00	0.00	7,800.00	4,361.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
7,900.00	0.00	0.00	7,900.00	4,461.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
8,000.00	0.00	0.00	8,000.00	4,561.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15



Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #3H
TVD Reference: H&P #416 @ 3438.40ft (25' KB Correction)
MD Reference: H&P #416 @ 3438.40ft (25' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,100.00	0.00	0.00	8,100.00	4,661.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
8,200.00	0.00	0.00	8,200.00	4,761.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
8,300.00	0.00	0.00	8,300.00	4,861.60	0.00	0.00	0.00	0.00	461,958.51	715,802.15
8,402.50	0.00	0.00	8,402.50	4,964.10	0.00	0.00	0.00	0.00	461,958.51	715,802.15
8,425.00	2.70	359.67	8,424.99	4,986.59	0.53	0.00	0.53	12.00	461,959.04	715,802.15
8,450.00	5.70	359.67	8,449.92	5,011.52	2.36	-0.01	2.36	12.00	461,960.87	715,802.14
8,475.00	8.70	359.67	8,474.72	5,036.32	5.49	-0.03	5.49	12.00	461,964.00	715,802.12
8,500.00	11.70	359.67	8,499.32	5,060.92	9.92	-0.06	9.92	12.00	461,968.43	715,802.09
8,525.00	14.70	359.67	8,523.66	5,085.26	15.63	-0.09	15.63	12.00	461,974.14	715,802.06
8,550.00	17.70	359.67	8,547.67	5,109.27	22.60	-0.13	22.60	12.00	461,981.11	715,802.02
8,575.00	20.70	359.67	8,571.27	5,132.87	30.82	-0.18	30.82	12.00	461,989.33	715,801.97
8,600.00	23.70	359.67	8,594.42	5,156.02	40.26	-0.23	40.27	12.00	461,998.77	715,801.92
8,625.00	26.70	359.67	8,617.04	5,178.64	50.91	-0.29	50.91	12.00	462,009.42	715,801.86
8,650.00	29.70	359.67	8,639.07	5,200.67	62.72	-0.36	62.72	12.00	462,021.23	715,801.79
8,675.00	32.70	359.67	8,660.45	5,222.05	75.67	-0.44	75.67	12.00	462,034.18	715,801.71
8,700.00	35.70	359.67	8,681.12	5,242.72	89.72	-0.52	89.72	12.00	462,048.23	715,801.63
8,725.00	38.70	359.67	8,701.03	5,262.63	104.83	-0.60	104.83	12.00	462,063.34	715,801.55
8,750.00	41.70	359.67	8,720.13	5,281.73	120.96	-0.70	120.96	12.00	462,079.47	715,801.45
8,775.00	44.70	359.67	8,738.35	5,299.95	138.07	-0.80	138.07	12.00	462,096.58	715,801.35
8,800.00	47.70	359.67	8,755.65	5,317.25	156.11	-0.90	156.11	12.00	462,114.62	715,801.25
8,825.00	50.70	359.67	8,771.99	5,333.59	175.03	-1.01	175.04	12.00	462,133.54	715,801.14
8,850.00	53.70	359.67	8,787.31	5,348.91	194.78	-1.12	194.79	12.00	462,153.29	715,801.03
8,875.00	56.70	359.67	8,801.58	5,363.18	215.31	-1.24	215.31	12.00	462,173.82	715,800.91
8,900.00	59.70	359.67	8,814.75	5,376.35	236.55	-1.36	236.56	12.00	462,195.06	715,800.79
8,925.00	62.70	359.67	8,826.80	5,388.40	258.46	-1.49	258.46	12.00	462,216.97	715,800.66
8,950.00	65.70	359.67	8,837.68	5,399.28	280.96	-1.62	280.97	12.00	462,239.47	715,800.53
8,975.00	68.69	359.67	8,847.37	5,408.97	304.00	-1.75	304.01	12.00	462,262.51	715,800.40



Pathfinder
Pathfinder X & Y Planning Report



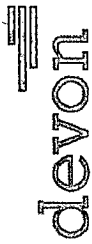
Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
H&P #416 @ 3438.40ft (25' KB Correction)
H&P #416 @ 3438.40ft (25' KB Correction)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,000.00	71.69	359.67	8,855.84	5,417.44	327.52	-1.89	327.53	12.00	462,286.03	715,800.26
9,025.00	74.69	359.67	8,863.06	5,424.66	351.45	-2.02	351.46	12.00	462,309.96	715,800.13
9,050.00	77.69	359.67	8,869.03	5,430.63	375.73	-2.16	375.73	12.00	462,334.24	715,799.99
9,075.00	80.69	359.67	8,873.72	5,435.32	400.28	-2.31	400.29	12.00	462,358.79	715,799.84
9,100.00	83.69	359.67	8,877.11	5,438.71	425.04	-2.45	425.05	12.00	462,383.55	715,799.70
9,125.00	86.69	359.67	8,879.21	5,440.81	449.95	-2.59	449.96	12.00	462,408.46	715,799.56
9,135.04	87.90	359.67	8,879.68	5,441.28	459.98	-2.65	459.99	12.00	462,418.49	715,799.50
Heal TGT(A27F#3)										
9,150.00	89.69	359.67	8,879.99	5,441.59	474.94	-2.74	474.94	12.00	462,433.45	715,799.41
9,152.56	90.00	359.67	8,880.00	5,441.60	477.49	-2.75	477.50	12.00	462,436.00	715,799.40
9,200.00	90.00	359.67	8,880.00	5,441.60	524.94	-3.02	524.94	0.00	462,483.45	715,799.13
9,300.00	90.00	359.67	8,880.00	5,441.60	624.93	-3.60	624.94	0.00	462,583.44	715,798.55
9,400.00	90.00	359.67	8,880.00	5,441.60	724.93	-4.18	724.94	0.00	462,683.44	715,797.97
9,500.00	90.00	359.67	8,880.00	5,441.60	824.93	-4.75	824.94	0.00	462,783.44	715,797.40
9,600.00	90.00	359.67	8,880.00	5,441.60	924.93	-5.33	924.94	0.00	462,883.44	715,796.82
9,700.00	90.00	359.67	8,880.00	5,441.60	1,024.93	-5.90	1,024.94	0.00	462,983.44	715,796.25
9,800.00	90.00	359.67	8,880.00	5,441.60	1,124.93	-6.48	1,124.94	0.00	463,083.44	715,795.67
9,900.00	90.00	359.67	8,880.00	5,441.60	1,224.92	-7.06	1,224.94	0.00	463,183.43	715,795.09
10,000.00	90.00	359.67	8,880.00	5,441.60	1,324.92	-7.63	1,324.94	0.00	463,283.43	715,794.52
10,100.00	90.00	359.67	8,880.00	5,441.60	1,424.92	-8.21	1,424.94	0.00	463,383.43	715,793.94
10,200.00	90.00	359.67	8,880.00	5,441.60	1,524.92	-8.78	1,524.94	0.00	463,483.43	715,793.37
10,300.00	90.00	359.67	8,880.00	5,441.60	1,624.92	-9.36	1,624.94	0.00	463,583.43	715,792.79
10,400.00	90.00	359.67	8,880.00	5,441.60	1,724.92	-9.93	1,724.94	0.00	463,683.43	715,792.22
10,500.00	90.00	359.67	8,880.00	5,441.60	1,824.91	-10.51	1,824.94	0.00	463,783.42	715,791.64
10,600.00	90.00	359.67	8,880.00	5,441.60	1,924.91	-11.09	1,924.94	0.00	463,883.42	715,791.06
10,700.00	90.00	359.67	8,880.00	5,441.60	2,024.91	-11.66	2,024.94	0.00	463,983.42	715,790.49
10,800.00	90.00	359.67	8,880.00	5,441.60	2,124.91	-12.24	2,124.94	0.00	464,083.42	715,789.91



Pathfinder

Pathfinder X & Y Planning Report



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Project: Eddy County
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Wellbore: OH
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Well #3H
H&P #416 @ 3438.40ft (25' KB Correction)
H&P #416 @ 3438.40ft (25' KB Correction)
Grid
Minimum Curvature
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Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)
10,900.00	90.00	359.67	8,880.00	5,441.60	2,224.91	-12.81	2,224.94	0.00	464,183.42	715,789.34
11,000.00	90.00	359.67	8,880.00	5,441.60	2,324.91	-13.39	2,324.94	0.00	464,283.42	715,788.76
11,100.00	90.00	359.67	8,880.00	5,441.60	2,424.90	-13.97	2,424.94	0.00	464,383.41	715,788.18
11,200.00	90.00	359.67	8,880.00	5,441.60	2,524.90	-14.54	2,524.94	0.00	464,483.41	715,787.61
11,300.00	90.00	359.67	8,880.00	5,441.60	2,624.90	-15.12	2,624.94	0.00	464,583.41	715,787.03
11,400.00	90.00	359.67	8,880.00	5,441.60	2,724.90	-15.69	2,724.94	0.00	464,683.41	715,786.46
11,500.00	90.00	359.67	8,880.00	5,441.60	2,824.90	-16.27	2,824.94	0.00	464,783.41	715,785.88
11,600.00	90.00	359.67	8,880.00	5,441.60	2,924.90	-16.85	2,924.94	0.00	464,883.41	715,785.30
11,700.00	90.00	359.67	8,880.00	5,441.60	3,024.89	-17.42	3,024.94	0.00	464,983.40	715,784.73
11,800.00	90.00	359.67	8,880.00	5,441.60	3,124.89	-18.00	3,124.94	0.00	465,083.40	715,784.15
11,900.00	90.00	359.67	8,880.00	5,441.60	3,224.89	-18.57	3,224.94	0.00	465,183.40	715,783.58
12,000.00	90.00	359.67	8,880.00	5,441.60	3,324.89	-19.15	3,324.94	0.00	465,283.40	715,783.00
12,100.00	90.00	359.67	8,880.00	5,441.60	3,424.89	-19.73	3,424.94	0.00	465,383.40	715,782.42
12,200.00	90.00	359.67	8,880.00	5,441.60	3,524.89	-20.30	3,524.94	0.00	465,483.40	715,781.85
12,300.00	90.00	359.67	8,880.00	5,441.60	3,624.88	-20.88	3,624.94	0.00	465,583.39	715,781.27
12,400.00	90.00	359.67	8,880.00	5,441.60	3,724.88	-21.45	3,724.94	0.00	465,683.39	715,780.70
12,500.00	90.00	359.67	8,880.00	5,441.60	3,824.88	-22.03	3,824.94	0.00	465,783.39	715,780.12
12,600.00	90.00	359.67	8,880.00	5,441.60	3,924.88	-22.61	3,924.94	0.00	465,883.39	715,779.54
12,700.00	90.00	359.67	8,880.00	5,441.60	4,024.88	-23.18	4,024.94	0.00	465,983.39	715,778.97
12,800.00	90.00	359.67	8,880.00	5,441.60	4,124.88	-23.76	4,124.94	0.00	466,083.39	715,778.39
12,900.00	90.00	359.67	8,880.00	5,441.60	4,224.87	-24.33	4,224.94	0.00	466,183.38	715,777.82
13,000.00	90.00	359.67	8,880.00	5,441.60	4,324.87	-24.91	4,324.94	0.00	466,283.38	715,777.24
13,100.00	90.00	359.67	8,880.00	5,441.60	4,424.87	-25.49	4,424.94	0.00	466,383.38	715,776.66
13,200.00	90.00	359.67	8,880.00	5,441.60	4,524.87	-26.06	4,524.94	0.00	466,483.38	715,776.09
13,300.00	90.00	359.67	8,880.00	5,441.60	4,624.87	-26.64	4,624.94	0.00	466,583.38	715,775.51
13,400.00	90.00	359.67	8,880.00	5,441.60	4,724.87	-27.21	4,724.94	0.00	466,683.38	715,774.94
13,500.00	90.00	359.67	8,880.00	5,441.60	4,824.86	-27.79	4,824.94	0.00	466,783.37	715,774.36



Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
H&P #416 @ 3438.40ft (25' KB Correction)
H&P #416 @ 3438.40ft (25' KB Correction)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
13,600.00	90.00	359.67	8,880.00	5,441.60	4,924.86	-28.37	4,924.94	0.00	466,883.37	715,773.78
13,700.00	90.00	359.67	8,880.00	5,441.60	5,024.86	-28.94	5,024.94	0.00	466,983.37	715,773.21
13,800.00	90.00	359.67	8,880.00	5,441.60	5,124.86	-29.52	5,124.94	0.00	467,083.37	715,772.63
13,900.00	90.00	359.67	8,880.00	5,441.60	5,224.86	-30.09	5,224.94	0.00	467,183.37	715,772.06
14,000.00	90.00	359.67	8,880.00	5,441.60	5,324.86	-30.67	5,324.94	0.00	467,283.37	715,771.48
14,100.00	90.00	359.67	8,880.00	5,441.60	5,424.85	-31.25	5,424.94	0.00	467,383.36	715,770.90
14,200.00	90.00	359.67	8,880.00	5,441.60	5,524.85	-31.82	5,524.94	0.00	467,483.36	715,770.33
14,300.00	90.00	359.67	8,880.00	5,441.60	5,624.85	-32.40	5,624.94	0.00	467,583.36	715,769.75
14,400.00	90.00	359.67	8,880.00	5,441.60	5,724.85	-32.97	5,724.94	0.00	467,683.36	715,769.18
14,500.00	90.00	359.67	8,880.00	5,441.60	5,824.85	-33.55	5,824.94	0.00	467,783.36	715,768.60
14,600.00	90.00	359.67	8,880.00	5,441.60	5,924.85	-34.13	5,924.94	0.00	467,883.36	715,768.02
14,700.00	90.00	359.67	8,880.00	5,441.60	6,024.84	-34.70	6,024.94	0.00	467,983.35	715,767.45
14,800.00	90.00	359.67	8,880.00	5,441.60	6,124.84	-35.28	6,124.94	0.00	468,083.35	715,766.87
14,900.00	90.00	359.67	8,880.00	5,441.60	6,224.84	-35.85	6,224.94	0.00	468,183.35	715,766.30
15,000.00	90.00	359.67	8,880.00	5,441.60	6,324.84	-36.43	6,324.94	0.00	468,283.35	715,765.72
15,100.00	90.00	359.67	8,880.00	5,441.60	6,424.84	-37.00	6,424.94	0.00	468,383.35	715,765.15
15,200.00	90.00	359.67	8,880.00	5,441.60	6,524.84	-37.58	6,524.94	0.00	468,483.35	715,764.57
15,300.00	90.00	359.67	8,880.00	5,441.60	6,624.83	-38.16	6,624.94	0.00	468,583.34	715,763.99
15,400.00	90.00	359.67	8,880.00	5,441.60	6,724.83	-38.73	6,724.94	0.00	468,683.34	715,763.42
15,500.00	90.00	359.67	8,880.00	5,441.60	6,824.83	-39.31	6,824.94	0.00	468,783.34	715,762.84
15,600.00	90.00	359.67	8,880.00	5,441.60	6,924.83	-39.88	6,924.94	0.00	468,883.34	715,762.27
15,700.00	90.00	359.67	8,880.00	5,441.60	7,024.83	-40.46	7,024.94	0.00	468,983.34	715,761.69
15,800.00	90.00	359.67	8,880.00	5,441.60	7,124.83	-41.04	7,124.94	0.00	469,083.34	715,761.11
15,900.00	90.00	359.67	8,880.00	5,441.60	7,224.82	-41.61	7,224.94	0.00	469,183.33	715,760.54
16,000.00	90.00	359.67	8,880.00	5,441.60	7,324.82	-42.19	7,324.94	0.00	469,283.33	715,759.96
16,100.00	90.00	359.67	8,880.00	5,441.60	7,424.82	-42.76	7,424.94	0.00	469,383.33	715,759.39
16,200.00	90.00	359.67	8,880.00	5,441.60	7,524.82	-43.34	7,524.94	0.00	469,483.33	715,758.81



Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Alberta "27" Fed
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #3H
H&P #416 @ 3438.40ft (25' KB Correction)
H&P #416 @ 3438.40ft (25' KB Correction)
Grid
Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)
16,300.00	90.00	359.67	8,880.00	5,441.60	7,624.82	-43.92	7,624.94	0.00	469,583.33	715,758.23
16,358.54	90.00	359.67	8,880.00	5,441.60	7,683.36	-44.25	7,683.48	0.00	469,641.87	715,757.90

PBHL(A27F#3)

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(A27F#3)	0.00	0.00	8,880.00	7,683.36	-43.64	469,641.870	715,758.510	32° 17' 23.487 N	103° 46' 7.983 W
- plan hits target center									
- Point									
Heal TGT(A27F#3)	0.00	0.00	8,880.00	459.97	-2.60	462,418.480	715,799.550	32° 16' 12.006 N	103° 46' 7.948 W
- plan hits target center									
- Point									

Checked By: _____

Approved By: _____

Date: _____

NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP

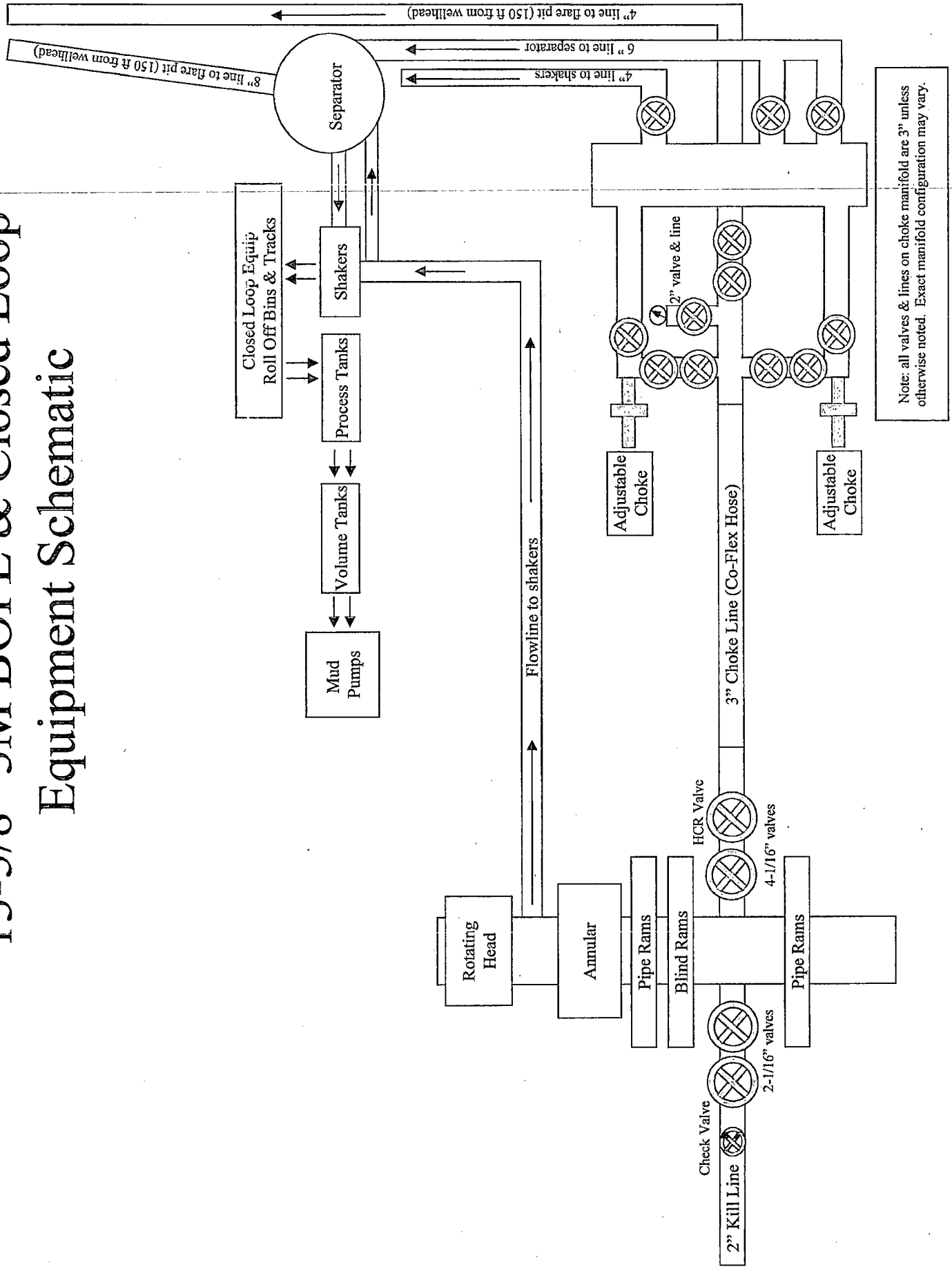
Aldabra 27 Fed Com 3H

Surface Location: 200' FSL & 1650' FWL, Unit N, Sec 27 T23S R31E, Eddy, NM

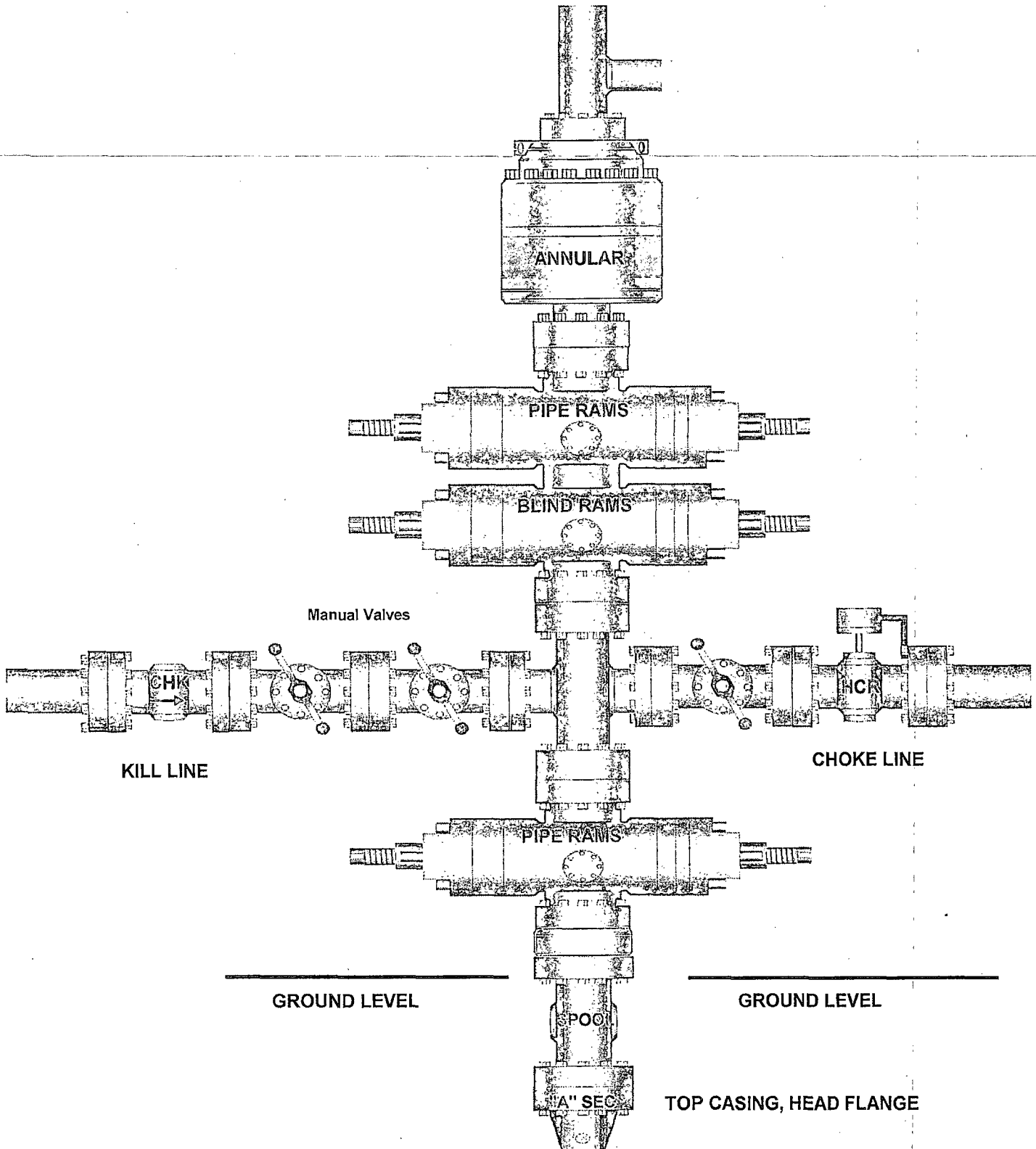
Bottom Hole Location: 2600' FSL & 1650' FWL, Unit K, Sec 22 T23S R31E, Eddy, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

13-5/8" 3M BOPE & Closed Loop Equipment Schematic



13-5/8" x 3,000 psi BOP Stack





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.

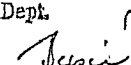
ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

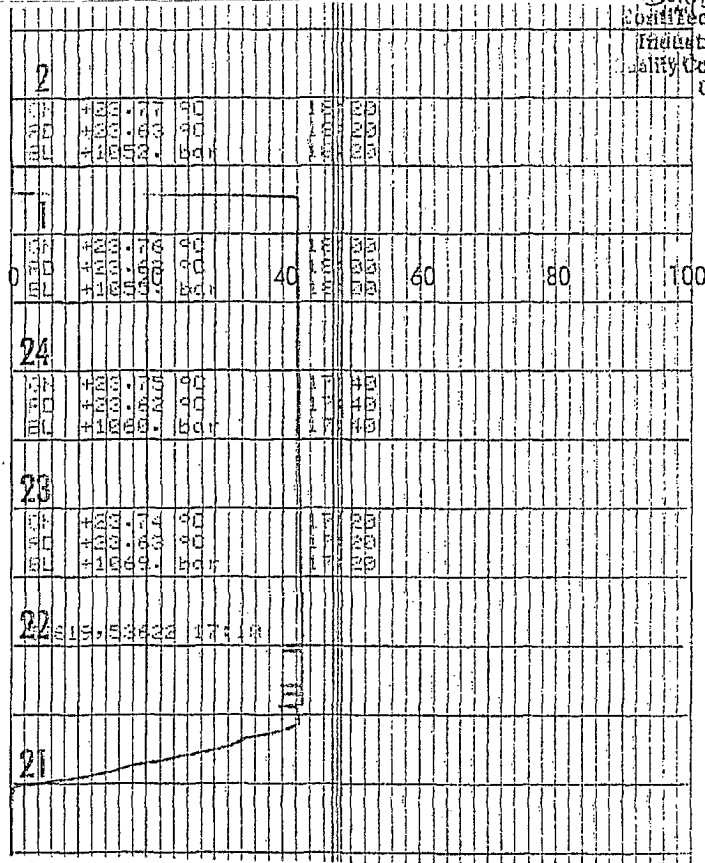
Robin Hodgson
Sales Manager
ContiTech Beattie Corp

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



QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1713	
PURCHASER: ContiTech Beattie Co.				P.O. N°: 002808	
CONTITECH ORDER N°: 426127		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 53622		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" Flange end		5503 2029		AISI 4130 AISI 4130	
				Heat N° N1590P 27566	
INFOCHIP INSTALLED				API Spec 16 C Temperature rate: "B"	
All metal parts are flawless				Hose conform to NACE MR 01-75	
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER. INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date: 25. August. 2008		Inspector		Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept.  	

HARTMANN &



AGS
 Contitech Rubber
 Industrial Kft.
 Quality Control Dept.
 (2)

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator DEVON ENERGY PROD CO LP OGRID # 6137
 38560 Well Name & # ALDABRAA 27 FED COM # 3 H Surface Type (F) (S) (P)
 Location: UL 23, Sect 27, Township 23 s, RNG 31 e, Sub-surface Type (F) (S) (P)
23 31

A. Date C101 rec'd / / C101 reviewed / /

B. 1. Check mark, Information is OK on Forms:

OGRID X BONDING FED PROP CODE X WELL # X, SIGNATURE

2. Inactive Well list as of: 3/30/14 # wells 1889 Inactive wells 3

a. District Grant APD but see number of inactive wells:

No letter required X; Sent Letter to Operator , to Santa Fe

3. Additional Bonding as of: 3/30/14

a. District Denial because operator needs addition bonding:

No Letter required X; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required X; Sent Letter to Operator , To Santa Fe

C. C102 YES , NO , Signature

1. Pool WILDCAT; BONE SHINE Code 96403

a. Dedicated acreage 240, What Units 22; KN 27 CFFKN

b. SUR. Location Standard : Non-Standard Location X

c. Well shares acres: Yes X, No , # of wells plus this well # 4 H

2. 2nd. Operator in same acreage, Yes , No X

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes X, No

a. Dedicated acreage 240, What Units 22; KN 27 CFFKN

b. Bottomhole Location Standard , Non-Standard Bottomhole X

4. Downhole Commingle: Yes , No X

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No FED

D. Blowout Preventer Yes X, No

E. H2S Yes X, No , Part of FED

F. C144 Pit Registration Yes , No X need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes X, No , NSL #

2. Non-Standard Proration: Yes , No X, NSP #

3. Simultaneous Dedication: Yes , No X, SD #

Number of wells Plus #

4. Injection order Yes , No X; PMX # or WFX #

5. SWD order Yes , NO X; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date / /

API #30-015- 38627

8. Reviewers KR