

OCD-ARTESIA

ATS-11-1417

Form 3160-3
(February 2005)

R-111-POTASH

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007 **Ea230**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. Aldabra 27 Federal Com 7H (38560)	
2. Name of Operator Devon Energy Production Co., LP (6137)		9. API Well No. 30-015-38631	
3a. Address 20 North Broadway OKC, OK 73102		10. Field and Pool, or Exploratory WILD CAT BONE SPRING (96403) Lugle Wells, Avaton Shale	
3b. Phone No. (include area code) (405)-228-8973		11. Sec., T. R. M. or Blk. and Survey or Area Sec 27 T23S R31E	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SWSE 65' FSL & 1330' FEL Unit O Sec 27 T23S R31E At proposed prod. zone NWSE 2600' FSL & 1000' FEL Unit I Sec 22 T23S R31E			
14. Distance in miles and direction from nearest town or post office* Approximately 18 miles east of Loving, NM.		12. County or Parish Eddy	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 65'	16. No. of acres in lease 1,240 ac & 720 ac	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 TVD 89'60" MD 16,634'	20. BLM/BIA Bond No. on file CO-1104	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3432' GL	22. Approximate date work will start* 05/10/2011	23. Estimated duration 45 days	

24. Attachments Well pad also contains: **Aldabra 27 Fed Com 5H & 6H**

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

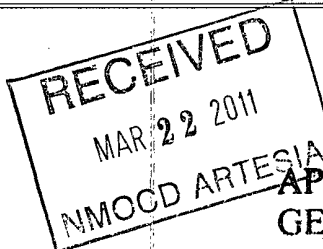
25. Signature <i>Spence Laird</i>	Name (Printed/Typed) Spence Laird	Date 11/29/2010
Title Regulatory Analyst		
Approved by (Signature) /s/ Jesse J. Juen	Name (Printed/Typed) /s/ Jesse J. Juen	Date MAR 11 2011
Title FOR STATE DIRECTOR	Office NM STATE OFFICE	

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)

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVAL**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED**OCD CONDITION OF APPROVAL of 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 Federal Com 7H

Surface Location: 65' FSL & 1330' FEL, Unit O, Sec 27 T23S R31E, Eddy, NM

Bottom hole Location: 2600' FSL & 1000' FEL, Unit I, 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. Rustler	614'	Barren
b. Salado Salt	934'	Barren
c. Base of Salt	4077'	Barren
d. Lamar	4337'	Barren
e. Bell Canyon	4355'	Oil/Gas
f. Cherry Canyon	5251'	Oil/Gas
g. Brushy Canyon	6530'	Oil/Gas
h. Avalon/Top of Bone Spring	8165'	Oil/Gas
i. Primary Target Landing Zone	8960'	Oil/Gas

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 675' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 4325' and circulating cement to surface. The pay intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

3. 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 - 675	13-3/8"	0 - 675	48#	STC	H-40
12-1/4"	675 - 4,325	9-5/8"	0 - 4,325	40#	LTC	J-55
8-3/4"	4,325 - 7,500	5-1/2"	0 - 7,500	20#	LTC	HCP-110
8-3/4"	7,500 - 16,634	5-1/2"	7,500 - 16,634	17#	BTC	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# J-55 LTC	1.16	1.79	3.06
5 1/2" 20# HCP110 LTC	2.13	3.03	1.60
5 1/2" 17# HCP110 LTC	1.77	2.53	3.63

4.

Cement Program:

** See COA - Wait on Cement Time*

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 ft

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: 1.37cf/sk

~~**DV TOOL at 3,800 ft**~~

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

*See COA
for DV Tool
& Cement*

*See
COA*

Yield: 2.91 cf/sk

See
COA

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: 1.37cf/sk

TOC for All Strings:

Surface: 0
Intermediate: 0
Production: 0

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

5. 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. Triple

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. Triple

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 (please see attached manufacturers product statement).

See
COA *

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 675'	8.4-9.0	30-34	NC	Fresh Water
675' - 4325'	9.8-10.0	28-32	NC	Brine
4325' - 17085'	8.6-9.0	28-32	NC	Fresh Water

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

7. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

8. Logging, Coring, and Testing Program:

- See COA*
- a. Drill stem tests will be based on geological sample shows.
 - b. 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.
 - c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. 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.

9. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area; therefore, no H2S is anticipated to be encountered. 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°.

10. Anticipated Starting Date and Duration of Operations:

- a. 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.

See COA

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.

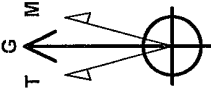
See COA

*The BLM will be contacted 24 hours prior to commencing drilling operations. The surface casing will be run and cemented back to surface as per the approved APD. The well will be secured with a cap welded onto the surface casing. Another rig will be on location to drill the remainder of the wellbore within 60 days after the Ashton rig has left the location.



Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
Wellbore: OH
Plan: Plan #1 (#7H/OH)

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

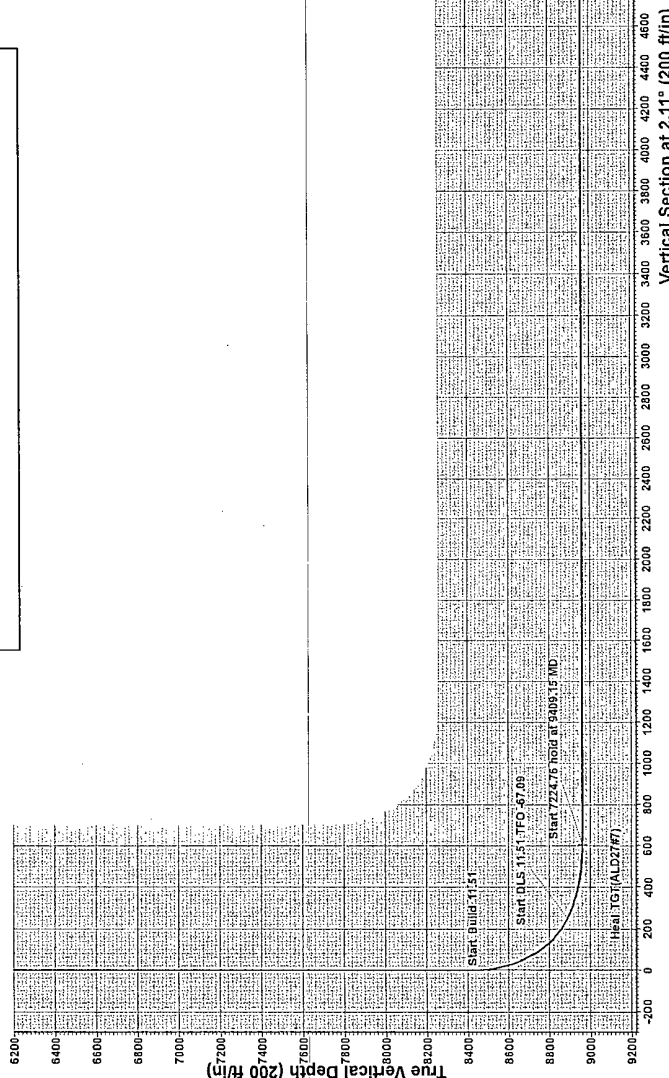


Azimuths to Grid North
True North: -0.30°
Magnetic North: 7.43°
Magnetic Field
Strength: 48714.5snT
Dip Angle: 60.23°
Date: 11/15/2010
Model: IGRF200510

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	8422.00	0.00	0.00	8422.00	0.00	0.00	0.00	0.00	0.00
3	40.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00
4	9409.15	90.00	359.69	8950.00	584.84	326.86	11.51	-67.09	608.48 Heal TGT(ALD27#7)
5	16633.91	90.00	359.69	8950.00	7819.50	288.21	0.00	0.00	7824.81 PBHL TGT(ALD27#7)

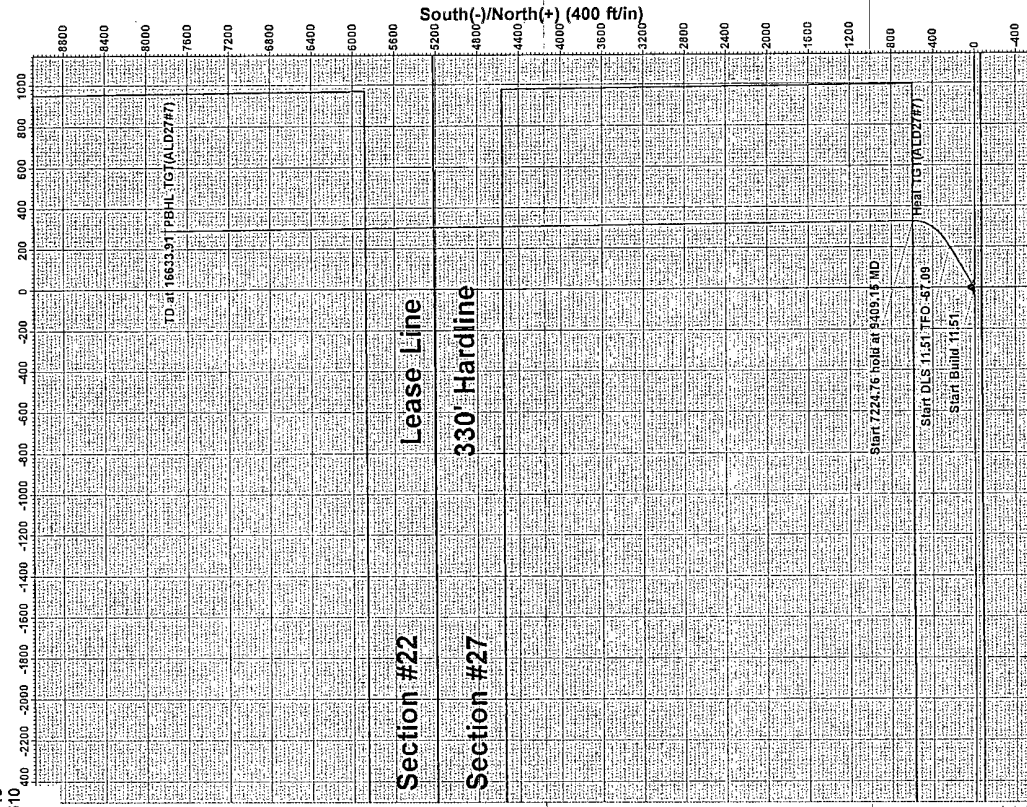
WELL DETAILS: #7H				
Ground Elevation: 3454.69				
RIG Elevation: 3459.69# (25' KB Correction)				
Rig Name: 25' KB Correction				
+N-S	+E-W	Northing	Easting	Latitude
0.00	0.00	461833.860	719104.570	32° 16' 6.150" N 103° 45' 41.136" W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)				
Name	TVD	+N-S	+E-W	Nothing
Heal TGT(ALD27#7)	8950.00	584.84	326.86	718431.610
PBHL TGT(ALD27#7)	8950.00	7819.50	288.21	469858.360 718392.890
				Point



Vertical Section at 2.11" (200 ft/in)

West(-)/East(+) (200 ft/in)



Section #22

Section #27



A Schlumberger Company



Devon Energy, Inc.

Eddy County
Aldabra "27" Fed
#7H
OH

Plan: Plan #1

Pathfinder X & Y Planning Report

15 November, 2010



A Schlumberger Company



Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #7H
TVD Reference: WELL @ 3459.60ft (25' KB Correction)
MD Reference: WELL @ 3459.60ft (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:	Northings:	461,950.580 ft	Latitude:	32° 16' 7.447 N
From:	Easting:	714,427.100 ft	Longitude:	103° 46' 23.961 W
Position Uncertainty:	Map	2.00 ft	Slot Radius:	6-1/8"
			Grid Convergence:	0.30°

Well: #7H

Well Position	+N/-S	0.00 ft	Northings:	461,838.860 ft	Latitude:	32° 16' 6.150 N
	+E/-W	0.00 ft	Easting:	718,104.670 ft	Longitude:	103° 45' 41.136 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,434.60 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/15/10		7.74	60.23
					48,714

Design: Plan #1

Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	2.11

Survey Tool Program Date 11/15/10

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	16,633.91	Plan #1 (OH)	Pathfinder	Pathfinder MWD



Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
Wellbore: OH
Design: Plan #1

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

Well #7H
WELL @ 3459.60ft (25' KB Correction)
WELL @ 3459.60ft (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)
0.00	0.00	0.00	0.00	-3,459.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
100.00	0.00	0.00	100.00	-3,359.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
200.00	0.00	0.00	200.00	-3,259.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
300.00	0.00	0.00	300.00	-3,159.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
400.00	0.00	0.00	400.00	-3,059.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
500.00	0.00	0.00	500.00	-2,959.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
600.00	0.00	0.00	600.00	-2,859.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
700.00	0.00	0.00	700.00	-2,759.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
800.00	0.00	0.00	800.00	-2,659.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
900.00	0.00	0.00	900.00	-2,559.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,000.00	0.00	0.00	1,000.00	-2,459.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,100.00	0.00	0.00	1,100.00	-2,359.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,200.00	0.00	0.00	1,200.00	-2,259.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,300.00	0.00	0.00	1,300.00	-2,159.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,400.00	0.00	0.00	1,400.00	-2,059.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,500.00	0.00	0.00	1,500.00	-1,959.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,600.00	0.00	0.00	1,600.00	-1,859.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,700.00	0.00	0.00	1,700.00	-1,759.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,800.00	0.00	0.00	1,800.00	-1,659.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
1,900.00	0.00	0.00	1,900.00	-1,559.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,000.00	0.00	0.00	2,000.00	-1,459.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,100.00	0.00	0.00	2,100.00	-1,359.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,200.00	0.00	0.00	2,200.00	-1,259.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,300.00	0.00	0.00	2,300.00	-1,159.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,400.00	0.00	0.00	2,400.00	-1,059.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,500.00	0.00	0.00	2,500.00	-959.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,600.00	0.00	0.00	2,600.00	-859.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67



Pathfinder
Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
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Survey Calculation Method:
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WELL @ 3459.60ft (25' KB Correction)
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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)
2,700.00	0.00	0.00	2,700.00	-759.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,800.00	0.00	0.00	2,800.00	-659.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
2,900.00	0.00	0.00	2,900.00	-559.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,000.00	0.00	0.00	3,000.00	-459.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,100.00	0.00	0.00	3,100.00	-359.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,200.00	0.00	0.00	3,200.00	-259.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,300.00	0.00	0.00	3,300.00	-159.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,400.00	0.00	0.00	3,400.00	-59.60	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,500.00	0.00	0.00	3,500.00	-40.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,600.00	0.00	0.00	3,600.00	140.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,700.00	0.00	0.00	3,700.00	240.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,800.00	0.00	0.00	3,800.00	340.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
3,900.00	0.00	0.00	3,900.00	440.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,000.00	0.00	0.00	4,000.00	540.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,100.00	0.00	0.00	4,100.00	640.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,200.00	0.00	0.00	4,200.00	740.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,300.00	0.00	0.00	4,300.00	840.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,400.00	0.00	0.00	4,400.00	940.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,500.00	0.00	0.00	4,500.00	1,040.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,600.00	0.00	0.00	4,600.00	1,140.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,700.00	0.00	0.00	4,700.00	1,240.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,800.00	0.00	0.00	4,800.00	1,340.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
4,900.00	0.00	0.00	4,900.00	1,440.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,000.00	0.00	0.00	5,000.00	1,540.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,100.00	0.00	0.00	5,100.00	1,640.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,200.00	0.00	0.00	5,200.00	1,740.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,300.00	0.00	0.00	5,300.00	1,840.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67



Pathfinder
Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
Wellbore: OH
Design: Plan #1

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

Well #7H
WELL @ 3459.60ft (25' KB Correction)
WELL @ 3459.60ft (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	1,940.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,500.00	0.00	0.00	5,500.00	2,040.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,600.00	0.00	0.00	5,600.00	2,140.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,700.00	0.00	0.00	5,700.00	2,240.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,800.00	0.00	0.00	5,800.00	2,340.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
5,900.00	0.00	0.00	5,900.00	2,440.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,000.00	0.00	0.00	6,000.00	2,540.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,100.00	0.00	0.00	6,100.00	2,640.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,200.00	0.00	0.00	6,200.00	2,740.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,300.00	0.00	0.00	6,300.00	2,840.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,400.00	0.00	0.00	6,400.00	2,940.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,500.00	0.00	0.00	6,500.00	3,040.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,600.00	0.00	0.00	6,600.00	3,140.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,700.00	0.00	0.00	6,700.00	3,240.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,800.00	0.00	0.00	6,800.00	3,340.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
6,900.00	0.00	0.00	6,900.00	3,440.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,000.00	0.00	0.00	7,000.00	3,540.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,100.00	0.00	0.00	7,100.00	3,640.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,200.00	0.00	0.00	7,200.00	3,740.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,300.00	0.00	0.00	7,300.00	3,840.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,400.00	0.00	0.00	7,400.00	3,940.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,500.00	0.00	0.00	7,500.00	4,040.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,600.00	0.00	0.00	7,600.00	4,140.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,700.00	0.00	0.00	7,700.00	4,240.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,800.00	0.00	0.00	7,800.00	4,340.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
7,900.00	0.00	0.00	7,900.00	4,440.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
8,000.00	0.00	0.00	8,000.00	4,540.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67



Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
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Design: Plan #1

Local Co-ordinate Reference:
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Well #7H
WELL @ 3459.60ft (25' KB Correction)
WELL @ 3459.60ft (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)
8,100.00	0.00	0.00	8,100.00	4,640.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
8,200.00	0.00	0.00	8,200.00	4,740.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
8,300.00	0.00	0.00	8,300.00	4,840.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
8,400.00	0.00	0.00	8,400.00	4,940.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
8,422.00	0.00	0.00	8,422.00	4,962.40	0.00	0.00	0.00	0.00	461,838.86	718,104.67
8,425.00	0.35	40.04	8,425.00	4,965.40	0.01	0.01	0.01	11.51	461,838.87	718,104.68
8,450.00	3.22	40.04	8,449.99	4,990.39	0.60	0.51	0.51	11.51	461,839.46	718,105.18
8,475.00	6.10	40.04	8,474.90	5,015.30	2.16	1.81	1.81	11.51	461,841.02	718,106.48
8,500.00	8.98	40.04	8,499.68	5,040.08	4.67	3.92	3.92	11.51	461,843.53	718,108.59
8,525.00	11.86	40.04	8,524.27	5,064.67	8.13	6.83	6.83	11.51	461,846.99	718,111.50
8,550.00	14.73	40.04	8,548.59	5,088.99	12.53	10.53	10.53	11.51	461,851.39	718,115.20
8,575.00	17.61	40.04	8,572.60	5,113.00	17.86	15.01	15.01	11.51	461,856.72	718,119.68
8,600.00	20.49	40.04	8,596.23	5,136.63	24.11	20.26	20.26	11.51	461,862.97	718,124.93
8,625.00	23.37	40.04	8,619.42	5,159.82	31.25	26.26	26.26	11.51	461,870.11	718,130.93
8,650.00	26.24	40.04	8,642.11	5,182.51	39.28	33.01	33.01	11.51	461,878.14	718,137.68
8,675.00	29.12	40.04	8,664.25	5,204.65	48.17	40.48	40.48	11.51	461,887.03	718,145.15
8,700.00	32.00	40.04	8,685.77	5,226.17	57.90	48.66	48.66	11.51	461,896.76	718,153.33
8,725.00	34.88	40.04	8,706.63	5,247.03	68.45	57.52	57.52	11.51	461,907.31	718,162.19
8,750.00	37.75	40.04	8,726.78	5,267.18	79.78	67.04	67.04	11.51	461,918.64	718,171.71
8,775.00	40.63	40.04	8,746.15	5,286.55	91.87	77.20	77.20	11.51	461,930.73	718,181.87
8,800.00	43.51	40.04	8,764.71	5,305.11	104.70	87.98	87.98	11.51	461,943.56	718,192.65
8,825.00	46.39	40.04	8,782.40	5,322.80	118.22	99.34	99.34	11.51	461,957.08	718,204.01
8,850.00	49.26	40.04	8,799.18	5,339.58	132.40	111.26	111.26	11.51	461,971.26	718,215.93
8,875.00	52.14	40.04	8,815.01	5,355.41	147.21	123.70	123.70	11.51	461,986.07	718,228.37
8,900.00	55.02	40.04	8,829.86	5,370.26	162.61	136.64	136.64	11.51	462,001.47	718,241.31
8,925.00	57.90	40.04	8,843.67	5,384.07	178.56	150.04	150.04	11.51	462,017.42	718,254.71
8,950.00	60.77	40.04	8,856.42	5,396.82	195.02	163.88	163.88	11.51	462,033.88	718,268.55



Pathfinder
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Local Co-ordinate Reference:
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Well #7H
WELL @ 3459.60ft (25' KB Correction)
WELL @ 3459.60ft (25' KB Correction)
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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)
8,975.00	63.65	40.04	8,868.07	5,408.47	211.95	178.10	218.37	11.51	462,050.81	718,282.77
9,000.00	66.53	40.04	8,878.60	5,419.00	229.31	192.69	236.25	11.51	462,068.17	718,297.36
9,021.18	68.97	40.04	8,886.62	5,427.02	244.31	205.30	251.71	11.51	462,083.17	718,309.97
9,025.00	69.14	39.61	8,887.99	5,428.39	247.06	207.58	254.53	11.51	462,085.92	718,312.25
9,050.00	70.29	36.79	8,896.66	5,437.06	265.48	222.08	273.48	11.51	462,104.34	718,326.75
9,075.00	71.48	34.02	8,904.84	5,445.24	284.73	235.76	293.22	11.51	462,123.59	718,340.43
9,100.00	72.71	31.29	8,912.53	5,452.93	304.76	248.60	313.71	11.51	462,143.62	718,353.27
9,125.00	73.98	28.59	8,919.70	5,460.10	325.51	260.55	334.89	11.51	462,164.37	718,365.22
9,150.00	75.28	25.93	8,926.32	5,466.72	346.94	271.59	356.71	11.51	462,185.80	718,376.26
9,175.00	76.62	23.30	8,932.39	5,472.79	368.98	281.69	379.11	11.51	462,207.84	718,386.36
9,200.00	77.98	20.70	8,937.89	5,478.29	391.59	290.83	402.04	11.51	462,230.45	718,395.50
9,225.00	79.36	18.13	8,942.80	5,483.20	414.71	298.97	425.44	11.51	462,253.57	718,403.64
9,250.00	80.76	15.58	8,947.12	5,487.52	438.27	306.11	449.25	11.51	462,277.13	718,410.78
9,275.00	82.19	13.05	8,950.82	5,491.22	462.23	312.22	473.41	11.51	462,301.09	718,416.89
9,300.00	83.62	10.54	8,953.91	5,494.31	486.51	317.29	497.87	11.51	462,325.37	718,421.96
9,325.00	85.07	8.04	8,956.38	5,496.78	511.06	321.31	522.55	11.51	462,349.92	718,425.98
9,350.00	86.53	5.55	8,958.21	5,498.61	535.81	324.26	547.39	11.51	462,374.67	718,428.93
9,375.00	87.99	3.07	8,959.40	5,499.80	560.71	326.14	572.34	11.51	462,399.57	718,430.81
9,400.00	89.46	0.60	8,959.96	5,500.36	585.69	326.94	597.34	11.51	462,424.55	718,431.61
9,409.15	90.00	359.69	8,960.00	5,500.40	594.84	326.96	606.48	11.51	462,433.70	718,431.63
9,500.00	90.00	359.69	8,960.00	5,500.40	685.69	326.47	697.25	0.00	462,524.55	718,431.14
9,600.00	90.00	359.69	8,960.00	5,500.40	785.69	325.94	797.16	0.00	462,624.55	718,430.61
9,700.00	90.00	359.69	8,960.00	5,500.40	885.69	325.40	897.07	0.00	462,724.55	718,430.07
9,800.00	90.00	359.69	8,960.00	5,500.40	985.69	324.86	996.98	0.00	462,824.55	718,429.53
9,900.00	90.00	359.69	8,960.00	5,500.40	1,085.68	324.33	1,096.89	0.00	462,924.54	718,429.00
10,000.00	90.00	359.69	8,960.00	5,500.40	1,185.68	323.79	1,196.80	0.00	463,024.54	718,428.46
10,100.00	90.00	359.69	8,960.00	5,500.40	1,285.68	323.25	1,296.71	0.00	463,124.54	718,427.92



Pathfinder

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Well #7H
WELL @ 3459.60ft (25' KB Correction)
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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)
10,200.00	90.00	359.69	8,960.00	5,500.40	1,385.68	322.72	1,396.63	0.00	463,224.54	718,427.39
10,300.00	90.00	359.69	8,960.00	5,500.40	1,485.68	322.18	1,496.54	0.00	463,324.54	718,426.85
10,400.00	90.00	359.69	8,960.00	5,500.40	1,585.68	321.65	1,596.45	0.00	463,424.54	718,426.32
10,500.00	90.00	359.69	8,960.00	5,500.40	1,685.68	321.11	1,696.36	0.00	463,524.54	718,425.78
10,600.00	90.00	359.69	8,960.00	5,500.40	1,785.67	320.57	1,796.27	0.00	463,624.53	718,425.24
10,700.00	90.00	359.69	8,960.00	5,500.40	1,885.67	320.04	1,896.18	0.00	463,724.53	718,424.71
10,800.00	90.00	359.69	8,960.00	5,500.40	1,985.67	319.50	1,996.09	0.00	463,824.53	718,424.17
10,900.00	90.00	359.69	8,960.00	5,500.40	2,085.67	318.96	2,096.00	0.00	463,924.53	718,423.63
11,000.00	90.00	359.69	8,960.00	5,500.40	2,185.67	318.43	2,195.91	0.00	464,024.53	718,423.10
11,100.00	90.00	359.69	8,960.00	5,500.40	2,285.67	317.89	2,295.82	0.00	464,124.53	718,422.56
11,200.00	90.00	359.69	8,960.00	5,500.40	2,385.67	317.35	2,395.74	0.00	464,224.53	718,422.02
11,300.00	90.00	359.69	8,960.00	5,500.40	2,485.66	316.82	2,495.65	0.00	464,324.52	718,421.49
11,400.00	90.00	359.69	8,960.00	5,500.40	2,585.66	316.28	2,595.56	0.00	464,424.52	718,420.95
11,500.00	90.00	359.69	8,960.00	5,500.40	2,685.66	315.75	2,695.47	0.00	464,524.52	718,420.42
11,600.00	90.00	359.69	8,960.00	5,500.40	2,785.66	315.21	2,795.38	0.00	464,624.52	718,419.88
11,700.00	90.00	359.69	8,960.00	5,500.40	2,885.66	314.67	2,895.29	0.00	464,724.52	718,419.34
11,800.00	90.00	359.69	8,960.00	5,500.40	2,985.66	314.14	2,995.20	0.00	464,824.52	718,418.81
11,900.00	90.00	359.69	8,960.00	5,500.40	3,085.66	313.60	3,095.11	0.00	464,924.52	718,418.27
12,000.00	90.00	359.69	8,960.00	5,500.40	3,185.65	313.06	3,195.02	0.00	465,024.51	718,417.73
12,100.00	90.00	359.69	8,960.00	5,500.40	3,285.65	312.53	3,294.93	0.00	465,124.51	718,417.20
12,200.00	90.00	359.69	8,960.00	5,500.40	3,385.65	311.99	3,394.84	0.00	465,224.51	718,416.66
12,300.00	90.00	359.69	8,960.00	5,500.40	3,485.65	311.45	3,494.76	0.00	465,324.51	718,416.12
12,400.00	90.00	359.69	8,960.00	5,500.40	3,585.65	310.92	3,594.67	0.00	465,424.51	718,415.59
12,500.00	90.00	359.69	8,960.00	5,500.40	3,685.65	310.38	3,694.58	0.00	465,524.51	718,415.05
12,600.00	90.00	359.69	8,960.00	5,500.40	3,785.65	309.85	3,794.49	0.00	465,624.51	718,414.52
12,700.00	90.00	359.69	8,960.00	5,500.40	3,885.64	309.31	3,894.40	0.00	465,724.50	718,413.98
12,800.00	90.00	359.69	8,960.00	5,500.40	3,985.64	308.77	3,994.31	0.00	465,824.50	718,413.44



Pathfinder

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Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
Wellbore: OH
Design: Plan #1

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

Well #7H
WELL @ 3459.60ft (25' KB Correction)
WELL @ 3459.60ft (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)
12,900.00	90.00	359.69	8,960.00	5,500.40	4,085.64	308.24	4,094.22	0.00	465,924.50	718,412.91
13,000.00	90.00	359.69	8,960.00	5,500.40	4,185.64	307.70	4,194.13	0.00	466,024.50	718,412.37
13,100.00	90.00	359.69	8,960.00	5,500.40	4,285.64	307.16	4,294.04	0.00	466,124.50	718,411.83
13,200.00	90.00	359.69	8,960.00	5,500.40	4,385.64	306.63	4,393.95	0.00	466,224.50	718,411.30
13,300.00	90.00	359.69	8,960.00	5,500.40	4,485.63	306.09	4,493.87	0.00	466,324.49	718,410.76
13,400.00	90.00	359.69	8,960.00	5,500.40	4,585.63	305.56	4,593.78	0.00	466,424.49	718,410.23
13,500.00	90.00	359.69	8,960.00	5,500.40	4,685.63	305.02	4,693.69	0.00	466,524.49	718,409.69
13,600.00	90.00	359.69	8,960.00	5,500.40	4,785.63	304.48	4,793.60	0.00	466,624.49	718,409.15
13,700.00	90.00	359.69	8,960.00	5,500.40	4,885.63	303.95	4,893.51	0.00	466,724.49	718,408.62
13,800.00	90.00	359.69	8,960.00	5,500.40	4,985.63	303.41	4,993.42	0.00	466,824.49	718,408.08
13,900.00	90.00	359.69	8,960.00	5,500.40	5,085.63	302.87	5,093.33	0.00	466,924.49	718,407.54
14,000.00	90.00	359.69	8,960.00	5,500.40	5,185.62	302.34	5,193.24	0.00	467,024.48	718,407.01
14,100.00	90.00	359.69	8,960.00	5,500.40	5,285.62	301.80	5,293.15	0.00	467,124.48	718,406.47
14,200.00	90.00	359.69	8,960.00	5,500.40	5,385.62	301.26	5,393.06	0.00	467,224.48	718,405.93
14,300.00	90.00	359.69	8,960.00	5,500.40	5,485.62	300.73	5,492.97	0.00	467,324.48	718,405.40
14,400.00	90.00	359.69	8,960.00	5,500.40	5,585.62	300.19	5,592.89	0.00	467,424.48	718,404.86
14,500.00	90.00	359.69	8,960.00	5,500.40	5,685.62	299.66	5,692.80	0.00	467,524.48	718,404.33
14,600.00	90.00	359.69	8,960.00	5,500.40	5,785.62	299.12	5,792.71	0.00	467,624.48	718,403.79
14,700.00	90.00	359.69	8,960.00	5,500.40	5,885.61	298.58	5,892.62	0.00	467,724.47	718,403.25
14,800.00	90.00	359.69	8,960.00	5,500.40	5,985.61	298.05	5,992.53	0.00	467,824.47	718,402.72
14,900.00	90.00	359.69	8,960.00	5,500.40	6,085.61	297.51	6,092.44	0.00	467,924.47	718,402.18
15,000.00	90.00	359.69	8,960.00	5,500.40	6,185.61	296.97	6,192.35	0.00	468,024.47	718,401.64
15,100.00	90.00	359.69	8,960.00	5,500.40	6,285.61	296.44	6,292.26	0.00	468,124.47	718,401.11
15,200.00	90.00	359.69	8,960.00	5,500.40	6,385.61	295.90	6,392.17	0.00	468,224.47	718,400.57
15,300.00	90.00	359.69	8,960.00	5,500.40	6,485.61	295.36	6,492.08	0.00	468,324.47	718,400.03
15,400.00	90.00	359.69	8,960.00	5,500.40	6,585.60	294.83	6,592.00	0.00	468,424.46	718,399.50
15,500.00	90.00	359.69	8,960.00	5,500.40	6,685.60	294.29	6,691.91	0.00	468,524.46	718,398.96



Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "27" Fed
Well: #7H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
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MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	North (ft)	Easting (ft)
15,600.00	90.00	359.69	8,960.00	5,500.40	6,785.60	293.76	6,791.82	0.00	468,624.46	718,398.43
15,700.00	90.00	359.69	8,960.00	5,500.40	6,885.60	293.22	6,891.73	0.00	468,724.46	718,397.89
15,800.00	90.00	359.69	8,960.00	5,500.40	6,985.60	292.68	6,991.64	0.00	468,824.46	718,397.35
15,900.00	90.00	359.69	8,960.00	5,500.40	7,085.60	292.15	7,091.55	0.00	468,924.46	718,396.82
16,000.00	90.00	359.69	8,960.00	5,500.40	7,185.60	291.61	7,191.46	0.00	469,024.46	718,396.28
16,100.00	90.00	359.69	8,960.00	5,500.40	7,285.59	291.07	7,291.37	0.00	469,124.45	718,395.74
16,200.00	90.00	359.69	8,960.00	5,500.40	7,385.59	290.54	7,391.28	0.00	469,224.45	718,395.21
16,300.00	90.00	359.69	8,960.00	5,500.40	7,485.59	290.00	7,491.19	0.00	469,324.45	718,394.67
16,400.00	90.00	359.69	8,960.00	5,500.40	7,585.59	289.46	7,591.10	0.00	469,424.45	718,394.13
16,500.00	90.00	359.69	8,960.00	5,500.40	7,685.59	288.93	7,691.02	0.00	469,524.45	718,393.60
16,600.00	90.00	359.69	8,960.00	5,500.40	7,785.59	288.39	7,790.93	0.00	469,624.45	718,393.06
16,633.91	90.00	359.69	8,960.00	5,500.40	7,819.50	288.21	7,824.81	0.00	469,658.36	718,392.88

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	North (ft)	Easting (ft)	Latitude	Longitude
Heal-TGT(ALD27#7) - plan hits target center - Point	0.00	0.00	8,960.00	594.84	326.96	462,433.700	718,431.630	32° 16' 12.019 N	103° 45' 37.291 W
PBHL TGT(ALD27#7) - plan hits target center - Point	0.00	0.00	8,960.00	7,819.50	288.21	469,658.360	718,392.880	32° 17' 23.512 N	103° 45' 37.293 W

Checked By: _____

Approved By: _____

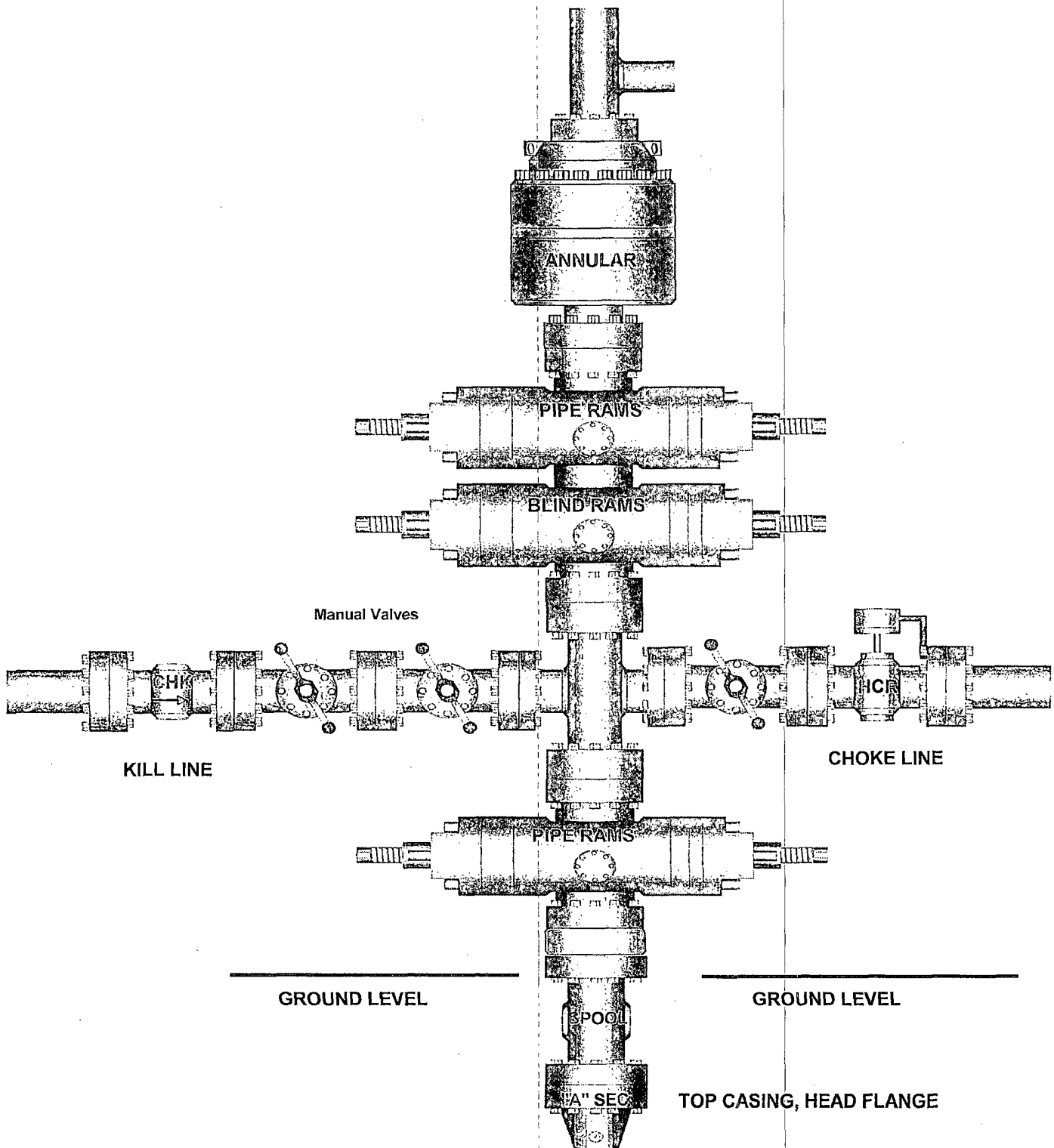
Date: _____

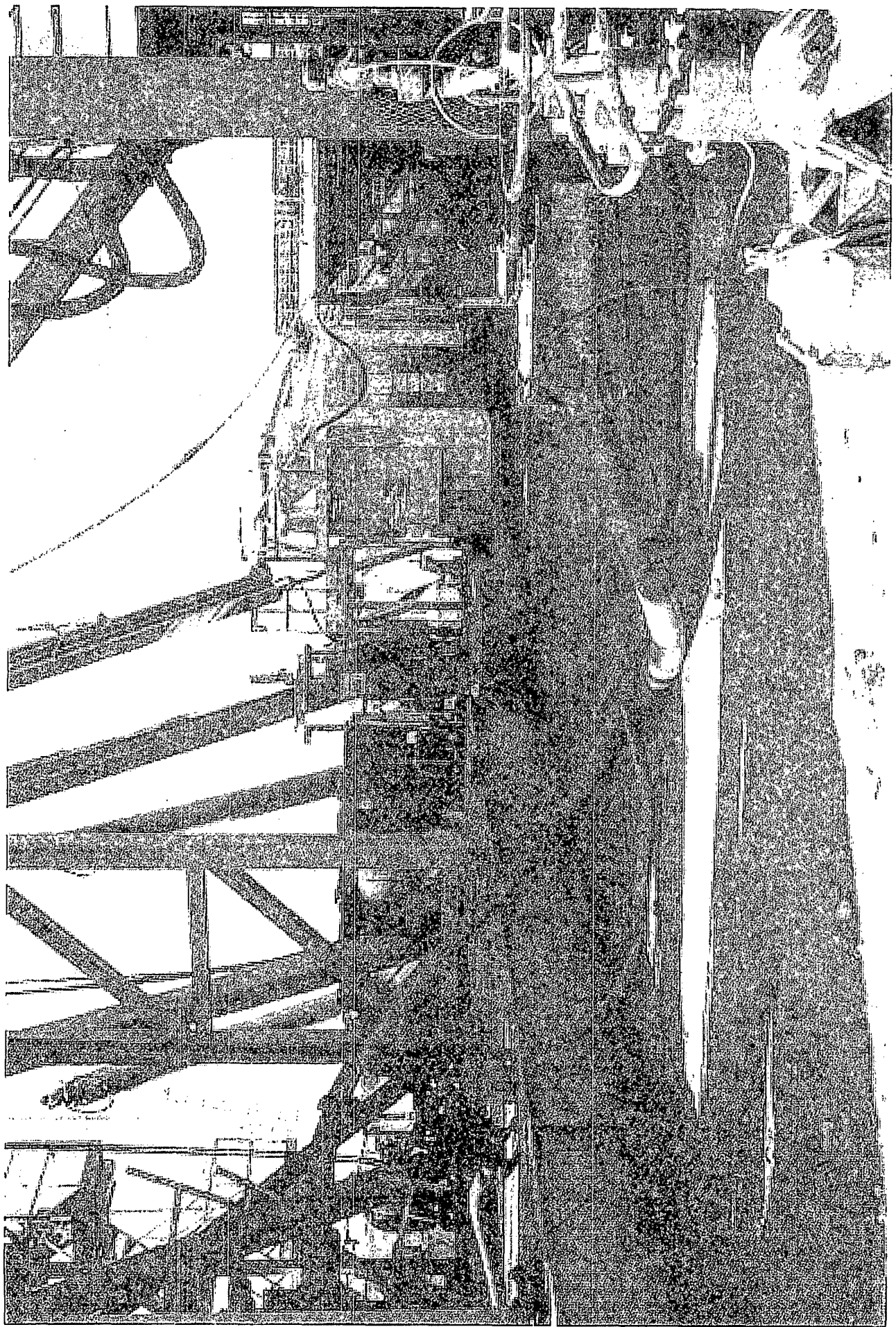
Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Aldabra 27 Federal Com 7H

Surface Location: 65' FSL & 1330' FEL, Unit O, Sec 27 T23S R31E, Eddy, NM
Bottom hole Location: 2600' FSL & 1000' FEL, Unit I, 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" 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.

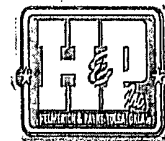
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

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

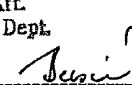
Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

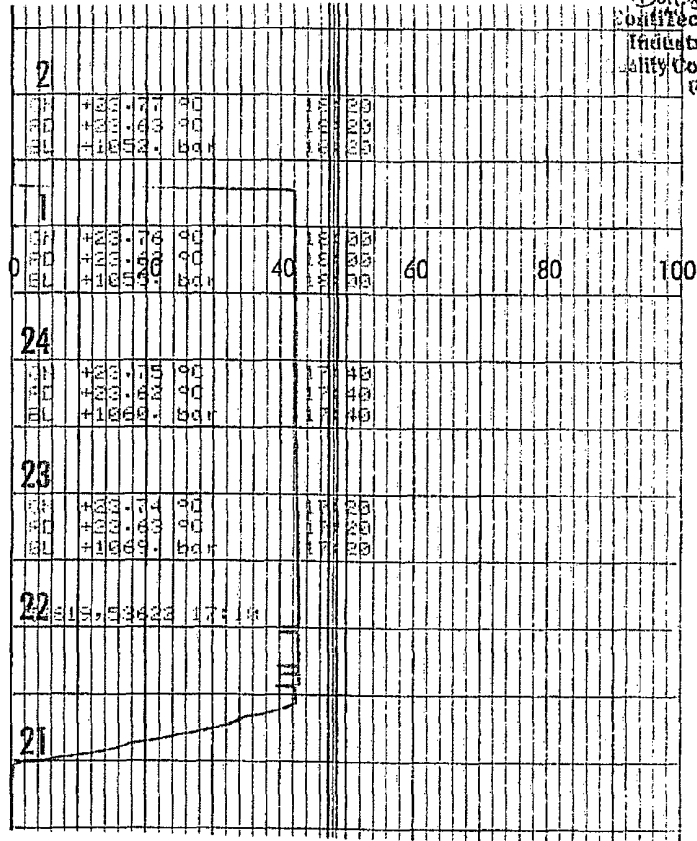
ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



New

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		Heat N°
3" coupling with 4 1/16" Flange end	5503 2029		AISI 4130 AISI 4130		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 &



Signature
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 # 7 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: 3/30/11 # wells 1499 # 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: 3/30/11

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 SHAKE Code 96403

a. Dedicated acreage 240, What Units 22: PA 27 A+10

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

c. Well shares acres: Yes X, No , # of wells plus this well # 8H

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: PA 27: A+10

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 PFD

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 #30-0 15- 38631

8. Reviewers KD