

OPERATIONS COPY

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, 20075. Lease Serial No.
NMNM 0544986

6. If Indian, Allottee or Tribe Name

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

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)
405-228-86998. Lease Name and Well No.
Aldabra 25 Federal 7H

9. API Well No.

30-015-38603

10. Field and Pool, or Exploratory

Upper Bone Spring

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

SEC 25 T23S R31E

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

At surface

200 FSL & 1000 FEL (Unit P)

At proposed prod. zone 330 FNL & 1000 FEL Unit A

PP: 178 FSL & 1000 FEL

14. Distance in miles and direction from nearest town or post office*
Approximately 20 miles east of Loving, NM.

12. County or Parish

Eddy County

13. State

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

600 Acres

17. Spacing Unit dedicated to this well

160 Acres

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

See Attached Map

19. Proposed Depth

13,749' MD 9155' TVD

20. BLM/BIA Bond No. on file

CO-1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3535' GL

22. Approximate date work will start*

23. Estimated duration

45 days

24. Attachments

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 Analyst

Name (Printed/Typed)

Judy A. Barnett

Date

11/02/2010

Approved by (Signature)

Title

STATE DIRECTOR

Name (Printed/Typed)

Office

NM STATE OFFICE

Date

MAR 4 2011

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)

K2 03/28/11

CARLSBAD CONTROLLED WATER BASIN

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

jm



IN REPLY REFER TO

NM 0544986
3160 (P0220)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

New Mexico State Office
P.O. Box 27115
Santa Fe, New Mexico 87502-0115
www.blm.gov/nm



Your Reference.

NM 0544986

Aldabra 25 Federal #7H

SHL: 200'/S. & 1000'/E., sec. 25, T 23 S., R. 31 E.

BHL: 330'/N & 1000'/E., sec. 25, T 23 S., R. 31 E.

Eddy County, New Mexico

March 4, 2011

CERTIFIED--RETURN RECEIPT REQUESTED

7008 1830 0000 8071 0852

Devon Energy Production Company, LP
20 North Broadway
Oklahoma City, OK 73102-8260

Gentlemen:

We have approved your application at the well location requested. A copy of the approved application with stipulations is enclosed. Please contact our Carlsbad Field Office at (575) 234-5972, should you have any questions or if we can be of any additional help.

Sincerely,

FOR Linda S.C. Rundell
State Director

1 Enclosure

DRILLING PROGRAM

Devon Energy Production Company, LP

Aldabra 25 Federal 7H

Surface Location: 200' FSL & 1000' FEL, Unit P, Sec 25 T23S R31E, Eddy, NM

Bottom Hole Location: 330' FNL & 1000' FEL, Unit A, Sec 25 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 Dol	863'	
b. Salado Salt	1192'	
c. Base of Salt	4290'	
d. Lamar	4520'	
e. Bell Canyon	4561'	
f. Cherry Canyon	5439'	
g. Brushy Canyon	6698'	
h. Avalon/Top of Bone Spring FM	8337'	Oil
Total Depth	13,947'	

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 975' and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4525' and circulating cement to surface. The Upper Bone Spring 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.

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"	0-975'	13 3/8"	0'-975'	48#	ST&C	H-40
12 1/4"	975-4525'	9 5/8"	0'-4525'	40#	LT&C	J-55
8 3/4"	4525-7500'	5 1/2"	0'-7500'	17#	LT&C	HCP-110
8 3/4"	7500-13,749'	5 1/2"	7500-13,749'	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"	1.78	4.00	7.25
9 5/8" 40#	1.21	1.68	2.87
5 1/2" 17# LTC	2.13	3.03	1.88
5 1/2" 17# BTC	1.77	2.53	4.98

NOTE REGARDING COLLAPSE DESIGN FACTOR FOR INTERMEDIATE CASING: The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. The pore pressure is estimated to be 9.0 ppg for this calculation. This results in a collapse design factor of 1.21 for the 9-5/8" 40# J-55 LTC casing at a depth of 4,525 ft. While running the intermediate casing, the casing string will never be completely evacuated. There is no potential for the intermediate casing to be used as a production string.

3. Cement Program:

13 3/8" Surface

**See COA For Wait on Cement*

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

See COA For DV-Tool Cement

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: 1,500 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 @ 6,000'

2nd Stage

See COA

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

*See COA **

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 @ 4025'**
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

The above cement volumes could be revised pending the caliper measurement from the open hole logs. All casing is new and API approved.

Pressure Control Equipment:

Triple

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.

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.

See COA X

A flexible line with flanged ends may be used between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

See
COA

Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 975'	8.4-9.0	30-34	NC	FW
975' - 4525'	9.8-10.0	28-32	NC	Brine
4525' - 13,749'	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.

See
COA

5. Logging, Coring, and Testing Program:

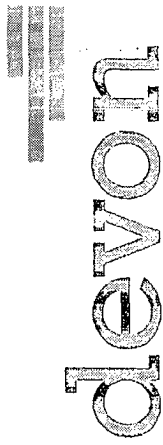
- Drill stem tests will be based on geological sample shows.
- If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- The open hole electrical logging program will be:
 - Total Depth to Intermediate Casing Dual Laterolog-Micro 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:

- 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.



Devon Energy, Inc.

Eddy County
Alabra "25" Fed
#7H
OH

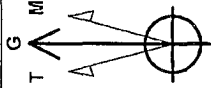
Plan: Plan #1

Pathfinder X & Y Planning Report

18 October, 2010



A Schlumberger Company



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



A Schlumberger Company

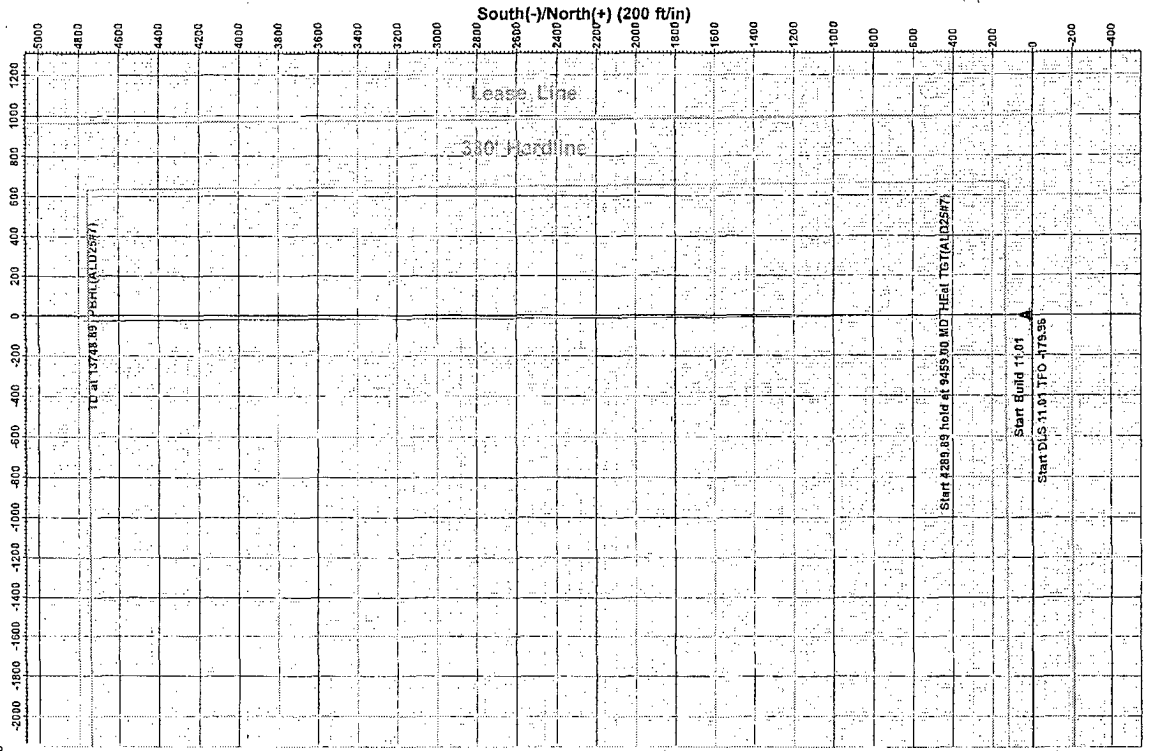
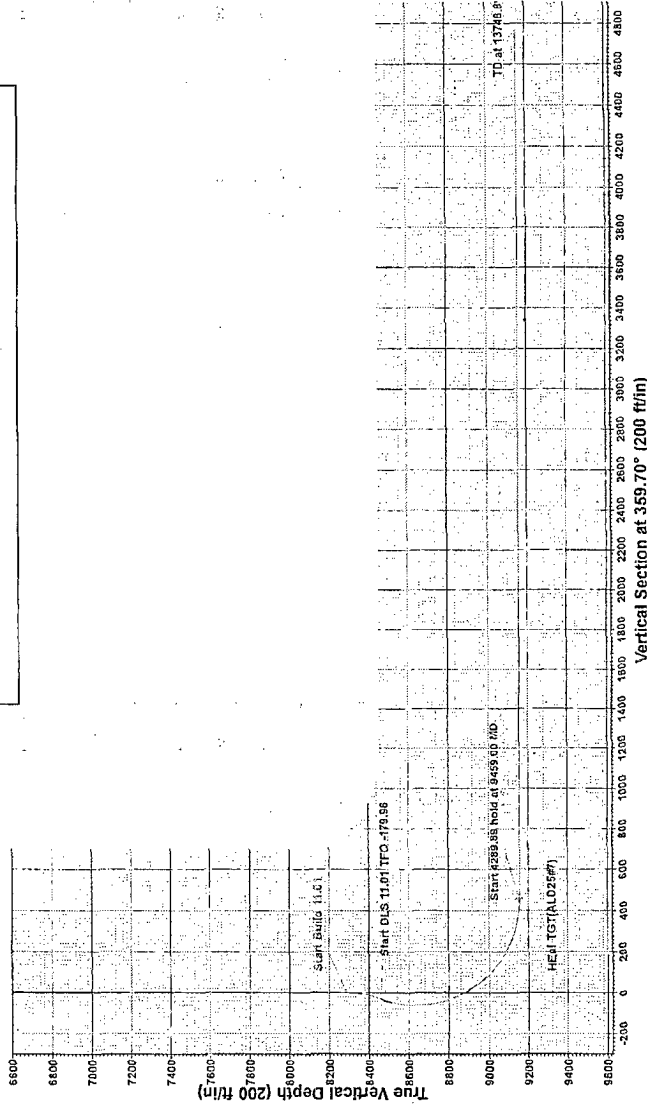
Project: Eddy County
Site: Aldabra "25" Fed
Well: #7H
Wellbore: OH
Plan: Plan #1 (#7H/OH)

Azimuths to Grid North
True North: -0.32°
Magnetic North: 7.40°
Magnetic Field
Strength: 48725.25nT
Dip Angle: 60.24°
Date: 10/18/2010
Model: IGRF200510

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	DLeg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	8285.00	0.00	0.00	8285.00	0.00	0.00	0.00	0.00	0.00
3	9459.00	30.00	359.70	9155.00	-2.23	11.01	-179.86	480.02	HEAL TGT(AD25F7)
4	9459.00	30.00	359.70	9155.00	-2.23	11.01	-179.86	480.02	HEAL TGT(AD25F7)
5	13748.89	90.00	359.70	9155.00	-24.67	0.00	0.00	4748.80	PBHL(AD25F7)

WELL DETAILS #7H									
Ground Elevation: 3535.90									
R/W Elevation: 3535.90 (Original Well Elev)									
R/W Name: Original Well Elev									
+N/S	+E/W	North	East	Longitude	Latitude				
0.00	0.00	462026.860	728991.240	32° 16' 7.419 N	103° 43' 34.330 W				

WELLBORE TARGET DETAILS (MAP COORDINATES)					
Name	TVD	+N/S	+E/W	North	East
HEAL TGT(AD25F7)	9155.00	-2.23	462485.890	728989.010	Point
PBHL(AD25F7)	9155.00	-24.67	466776.720	728965.570	Point





A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "25" Fed
Well: #7H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #7H
TVD Reference: WELL @ 3560.90ft (Original Well Elev)
MD Reference: WELL @ 3560.90ft (Original Well Elev)
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 "25" Fed		
Site Position:		Northings:	462,005.540 ft
From:	Map	Easting:	725,347.710 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 16' 7.410 N
		Longitude:	103° 44' 16.767 W
		Grid Convergence:	0.32°

Well	#7H		
Well Position	+N/-S	0.00 ft	Latitude:
	+E/-W	0.00 ft	Longitude:
Position Uncertainty	2.00 ft	Wellhead Elevation:	Ground Level:
			32° 16' 7.419 N
			103° 43' 34.330 W
			3.535.90 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Dip Angle
	IGRF200510	10/18/10	60.24
		7.73	48,725

Design	Plan #1		
Audit Notes:			
Version:	Phase:	Tie On Depth:	
	PLAN	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	Direction
	(ft)	(ft)	(°)
	0.00	0.00	359.70

Survey Tool Program	Date	10/18/10	
From (ft)	To (ft)	Survey (Wellbore)	
0.00	13,748.89	Plan #1 (OH)	
		Tool Name	Description
		Pathfinder	Pathfinder MWD



A Schlumberger Company

Pathfinder Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aklabra "25" 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 @ 3560.90ft (Original Well Elev)
WELL @ 3560.90ft (Original Well Elev)
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	-3,560.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
100.00	0.00	0.00	100.00	-3,460.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
200.00	0.00	0.00	200.00	-3,360.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
300.00	0.00	0.00	300.00	-3,260.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
400.00	0.00	0.00	400.00	-3,160.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
500.00	0.00	0.00	500.00	-3,060.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
600.00	0.00	0.00	600.00	-2,960.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
700.00	0.00	0.00	700.00	-2,860.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
800.00	0.00	0.00	800.00	-2,760.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
900.00	0.00	0.00	900.00	-2,660.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,000.00	0.00	0.00	1,000.00	-2,560.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,100.00	0.00	0.00	1,100.00	-2,460.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,200.00	0.00	0.00	1,200.00	-2,360.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,300.00	0.00	0.00	1,300.00	-2,260.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,400.00	0.00	0.00	1,400.00	-2,160.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,500.00	0.00	0.00	1,500.00	-2,060.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,600.00	0.00	0.00	1,600.00	-1,960.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,700.00	0.00	0.00	1,700.00	-1,860.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,800.00	0.00	0.00	1,800.00	-1,760.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
1,900.00	0.00	0.00	1,900.00	-1,660.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,000.00	0.00	0.00	2,000.00	-1,560.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,100.00	0.00	0.00	2,100.00	-1,460.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,200.00	0.00	0.00	2,200.00	-1,360.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,300.00	0.00	0.00	2,300.00	-1,260.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,400.00	0.00	0.00	2,400.00	-1,160.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,500.00	0.00	0.00	2,500.00	-1,060.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,600.00	0.00	0.00	2,600.00	-960.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24

Company: Devon Energy, Inc.
 Project: Eddy County
 Site: Aldabra "25" 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 @ 3560.90ft (Original Well Elev)
 WELL @ 3560.90ft (Original Well Elev)
 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)
2,700.00	0.00	0.00	2,700.00	-860.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,800.00	0.00	0.00	2,800.00	-760.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
2,900.00	0.00	0.00	2,900.00	-660.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,000.00	0.00	0.00	3,000.00	-560.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,100.00	0.00	0.00	3,100.00	-460.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,200.00	0.00	0.00	3,200.00	-360.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,300.00	0.00	0.00	3,300.00	-260.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,400.00	0.00	0.00	3,400.00	-160.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,500.00	0.00	0.00	3,500.00	-60.90	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,600.00	0.00	0.00	3,600.00	39.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,700.00	0.00	0.00	3,700.00	139.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,800.00	0.00	0.00	3,800.00	239.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
3,900.00	0.00	0.00	3,900.00	339.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,000.00	0.00	0.00	4,000.00	439.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,100.00	0.00	0.00	4,100.00	539.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,200.00	0.00	0.00	4,200.00	639.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,300.00	0.00	0.00	4,300.00	739.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,400.00	0.00	0.00	4,400.00	839.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,500.00	0.00	0.00	4,500.00	939.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,600.00	0.00	0.00	4,600.00	1,039.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,700.00	0.00	0.00	4,700.00	1,139.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,800.00	0.00	0.00	4,800.00	1,239.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
4,900.00	0.00	0.00	4,900.00	1,339.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,000.00	0.00	0.00	5,000.00	1,439.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,100.00	0.00	0.00	5,100.00	1,539.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,200.00	0.00	0.00	5,200.00	1,639.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,300.00	0.00	0.00	5,300.00	1,739.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24

Company: Devon Energy, Inc.
 Project: Eddy County
 Site: Aldabra "25" 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 @ 3560.90ft (Original Well Elev)
 WELL @ 3560.90ft (Original Well Elev)
 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	1,839.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,500.00	0.00	0.00	5,500.00	1,939.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,600.00	0.00	0.00	5,600.00	2,039.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,700.00	0.00	0.00	5,700.00	2,139.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,800.00	0.00	0.00	5,800.00	2,239.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
5,900.00	0.00	0.00	5,900.00	2,339.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,000.00	0.00	0.00	6,000.00	2,439.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,100.00	0.00	0.00	6,100.00	2,539.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,200.00	0.00	0.00	6,200.00	2,639.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,300.00	0.00	0.00	6,300.00	2,739.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,400.00	0.00	0.00	6,400.00	2,839.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,500.00	0.00	0.00	6,500.00	2,939.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,600.00	0.00	0.00	6,600.00	3,039.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,700.00	0.00	0.00	6,700.00	3,139.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,800.00	0.00	0.00	6,800.00	3,239.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
6,900.00	0.00	0.00	6,900.00	3,339.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,000.00	0.00	0.00	7,000.00	3,439.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,100.00	0.00	0.00	7,100.00	3,539.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,200.00	0.00	0.00	7,200.00	3,639.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,300.00	0.00	0.00	7,300.00	3,739.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,400.00	0.00	0.00	7,400.00	3,839.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,500.00	0.00	0.00	7,500.00	3,939.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,600.00	0.00	0.00	7,600.00	4,039.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,700.00	0.00	0.00	7,700.00	4,139.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,800.00	0.00	0.00	7,800.00	4,239.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
7,900.00	0.00	0.00	7,900.00	4,339.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
8,000.00	0.00	0.00	8,000.00	4,439.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24



Pathfinder
Pathfinder X & Y Planning Report



Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "25" Fed
Well: #7/H
Wellbore: OH
Design: Plan #1

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

Well #7H
WELL @ 3560.90ft (Original Well Elev)
WELL @ 3560.90ft (Original Well Elev)
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)
8,100.00	0.00	0.00	8,100.00	4,539.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
8,200.00	0.00	0.00	8,200.00	4,639.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
8,285.00	0.00	0.00	8,285.00	4,724.10	0.00	0.00	0.00	0.00	462,026.88	728,991.24
8,300.00	1.65	179.66	8,300.00	4,739.10	-0.22	0.00	-0.22	11.01	462,026.66	728,991.24
8,350.00	7.16	179.66	8,349.83	4,788.93	-4.05	0.02	-4.05	11.01	462,022.83	728,991.26
8,400.00	12.66	179.66	8,399.07	4,838.17	-12.65	0.07	-12.65	11.01	462,014.23	728,991.31
8,450.00	18.16	179.66	8,447.25	4,886.35	-25.94	0.15	-25.94	11.01	462,000.94	728,991.39
8,463.23	19.62	179.66	8,459.77	4,898.87	-30.22	0.18	-30.22	11.01	461,996.66	728,991.42
8,500.00	16.57	179.65	8,494.81	4,933.91	-41.33	0.24	-41.33	11.01	461,985.55	728,991.48
8,550.00	10.07	179.63	8,543.54	4,982.64	-52.43	0.31	-52.43	11.01	461,974.45	728,991.55
8,600.00	4.57	179.54	8,593.12	5,032.22	-58.79	0.36	-58.79	11.01	461,968.09	728,991.60
8,650.00	0.94	0.49	8,643.07	5,082.17	-60.37	0.38	-60.37	11.01	461,966.51	728,991.62
8,700.00	6.44	359.81	8,692.95	5,132.05	-57.15	0.37	-57.16	11.01	461,969.73	728,991.61
8,750.00	11.95	359.76	8,742.29	5,181.39	-49.17	0.34	-49.17	11.01	461,977.71	728,991.58
8,800.00	17.45	359.74	8,790.63	5,229.73	-36.48	0.28	-36.48	11.01	461,990.40	728,991.52
8,850.00	22.96	359.73	8,837.54	5,276.64	-19.22	0.21	-19.22	11.01	462,007.66	728,991.45
8,900.00	28.46	359.72	8,882.57	5,321.67	2.46	0.10	2.46	11.01	462,029.34	728,991.34
8,950.00	33.97	359.72	8,925.32	5,364.42	28.36	-0.02	28.36	11.01	462,055.24	728,991.22
9,000.00	39.47	359.72	8,965.38	5,404.48	58.24	-0.17	58.24	11.01	462,085.12	728,991.07
9,050.00	44.97	359.71	9,002.39	5,441.49	91.83	-0.34	91.83	11.01	462,118.71	728,990.90
9,100.00	50.48	359.71	9,036.02	5,475.12	128.81	-0.52	128.81	11.01	462,155.69	728,990.72
9,150.00	55.98	359.71	9,065.93	5,505.03	168.85	-0.73	168.85	11.01	462,195.73	728,990.51
9,200.00	61.49	359.71	9,091.87	5,530.97	211.57	-0.94	211.57	11.01	462,238.45	728,990.30
9,250.00	66.99	359.71	9,113.60	5,552.70	256.68	-1.18	256.59	11.01	462,283.46	728,990.06
9,300.00	72.50	359.70	9,130.90	5,570.00	303.47	-1.42	303.47	11.01	462,330.35	728,989.82
9,350.00	78.00	359.70	9,143.63	5,582.73	351.80	-1.67	351.81	11.01	462,378.68	728,989.57
9,400.00	83.50	359.70	9,151.66	5,590.76	401.13	-1.92	401.14	11.01	462,428.01	728,989.32

Company: Devon Energy, Inc.
 Project: Eddy County
 Site: Aldabra "25" Fed
 Well: #7H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #7H
 TVD Reference: WELL @ 3560.90ft (Original Well Elev)
 MD Reference: WELL @ 3560.90ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)
9,450.00	89.01	359.70	9,154.92	5,594.02	451.01	-2.18	451.01	11.01	462,477.89	728,989.06
9,459.00	90.00	359.70	9,155.00	5,594.10	460.01	-2.23	460.02	11.01	462,486.89	728,989.01
9,500.00	90.00	359.70	9,155.00	5,594.10	501.01	-2.44	501.01	0.00	462,527.89	728,988.80
9,600.00	90.00	359.70	9,155.00	5,594.10	601.01	-2.97	601.01	0.00	462,627.89	728,988.27
9,700.00	90.00	359.70	9,155.00	5,594.10	701.00	-3.49	701.01	0.00	462,727.88	728,987.75
9,800.00	90.00	359.70	9,155.00	5,594.10	801.00	-4.01	801.01	0.00	462,827.88	728,987.23
9,900.00	90.00	359.70	9,155.00	5,594.10	901.00	-4.54	901.01	0.00	462,927.88	728,986.70
10,000.00	90.00	359.70	9,155.00	5,594.10	1,001.00	-5.06	1,001.01	0.00	463,027.88	728,986.18
10,100.00	90.00	359.70	9,155.00	5,594.10	1,101.00	-5.58	1,101.01	0.00	463,127.88	728,985.66
10,200.00	90.00	359.70	9,155.00	5,594.10	1,201.00	-6.11	1,201.01	0.00	463,227.88	728,985.13
10,300.00	90.00	359.70	9,155.00	5,594.10	1,301.00	-6.63	1,301.01	0.00	463,327.88	728,984.61
10,400.00	90.00	359.70	9,155.00	5,594.10	1,400.99	-7.15	1,401.01	0.00	463,427.87	728,984.09
10,500.00	90.00	359.70	9,155.00	5,594.10	1,500.99	-7.68	1,501.01	0.00	463,527.87	728,983.56
10,600.00	90.00	359.70	9,155.00	5,594.10	1,600.99	-8.20	1,601.01	0.00	463,627.87	728,983.04
10,700.00	90.00	359.70	9,155.00	5,594.10	1,700.99	-8.72	1,701.01	0.00	463,727.87	728,982.52
10,800.00	90.00	359.70	9,155.00	5,594.10	1,800.99	-9.24	1,801.01	0.00	463,827.87	728,982.00
10,900.00	90.00	359.70	9,155.00	5,594.10	1,900.99	-9.77	1,901.01	0.00	463,927.87	728,981.47
11,000.00	90.00	359.70	9,155.00	5,594.10	2,000.99	-10.29	2,001.01	0.00	464,027.87	728,980.95
11,100.00	90.00	359.70	9,155.00	5,594.10	2,100.98	-10.81	2,101.01	0.00	464,127.86	728,980.43
11,200.00	90.00	359.70	9,155.00	5,594.10	2,200.98	-11.34	2,201.01	0.00	464,227.86	728,979.90
11,300.00	90.00	359.70	9,155.00	5,594.10	2,300.98	-11.86	2,301.01	0.00	464,327.86	728,979.38
11,400.00	90.00	359.70	9,155.00	5,594.10	2,400.98	-12.38	2,401.01	0.00	464,427.86	728,978.86
11,500.00	90.00	359.70	9,155.00	5,594.10	2,500.98	-12.91	2,501.01	0.00	464,527.86	728,978.33
11,600.00	90.00	359.70	9,155.00	5,594.10	2,600.98	-13.43	2,601.01	0.00	464,627.86	728,977.81
11,700.00	90.00	359.70	9,155.00	5,594.10	2,700.98	-13.95	2,701.01	0.00	464,727.86	728,977.29
11,800.00	90.00	359.70	9,155.00	5,594.10	2,800.98	-14.48	2,801.01	0.00	464,827.86	728,976.76
11,900.00	90.00	359.70	9,155.00	5,594.10	2,900.97	-15.00	2,901.01	0.00	464,927.85	728,976.24



Pathfinder
Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "25" 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 @ 3560.90ft (Original Well Elev)
WELL @ 3560.90ft (Original Well Elev)
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)
12,000.00	90.00	359.70	9,155.00	5,594.10	3,000.97	-15.52	3,001.01	0.00	465,027.85	728,975.72
12,100.00	90.00	359.70	9,155.00	5,594.10	3,100.97	-16.04	3,101.01	0.00	465,127.85	728,975.20
12,200.00	90.00	359.70	9,155.00	5,594.10	3,200.97	-16.57	3,201.01	0.00	465,227.85	728,974.67
12,300.00	90.00	359.70	9,155.00	5,594.10	3,300.97	-17.09	3,301.01	0.00	465,327.85	728,974.15
12,400.00	90.00	359.70	9,155.00	5,594.10	3,400.97	-17.61	3,401.01	0.00	465,427.85	728,973.63
12,500.00	90.00	359.70	9,155.00	5,594.10	3,500.97	-18.14	3,501.01	0.00	465,527.85	728,973.10
12,600.00	90.00	359.70	9,155.00	5,594.10	3,600.96	-18.66	3,601.01	0.00	465,627.84	728,972.58
12,700.00	90.00	359.70	9,155.00	5,594.10	3,700.96	-19.18	3,701.01	0.00	465,727.84	728,972.06
12,800.00	90.00	359.70	9,155.00	5,594.10	3,800.96	-19.71	3,801.01	0.00	465,827.84	728,971.53
12,900.00	90.00	359.70	9,155.00	5,594.10	3,900.96	-20.23	3,901.01	0.00	465,927.84	728,971.01
13,000.00	90.00	359.70	9,155.00	5,594.10	4,000.96	-20.75	4,001.01	0.00	466,027.84	728,970.49
13,100.00	90.00	359.70	9,155.00	5,594.10	4,100.96	-21.28	4,101.01	0.00	466,127.84	728,969.96
13,200.00	90.00	359.70	9,155.00	5,594.10	4,200.96	-21.80	4,201.01	0.00	466,227.84	728,969.44
13,300.00	90.00	359.70	9,155.00	5,594.10	4,300.95	-22.32	4,301.01	0.00	466,327.83	728,968.92
13,400.00	90.00	359.70	9,155.00	5,594.10	4,400.95	-22.84	4,401.01	0.00	466,427.83	728,968.40
13,500.00	90.00	359.70	9,155.00	5,594.10	4,500.95	-23.37	4,501.01	0.00	466,527.83	728,967.87
13,600.00	90.00	359.70	9,155.00	5,594.10	4,600.95	-23.89	4,601.01	0.00	466,627.83	728,967.35
13,700.00	90.00	359.70	9,155.00	5,594.10	4,700.95	-24.41	4,701.01	0.00	466,727.83	728,966.83
13,748.89	90.00	359.70	9,155.00	5,594.10	4,749.84	-24.87	4,749.90	0.00	466,776.72	728,966.57



Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County
Site: Aldabra "25" 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 @ 3560.90ft (Original Well Elev)
WELL @ 3560.90ft (Original Well Elev)
Grid
Minimum Curvature
Midland Database

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(ALD25#7)

- plan hits target center
- Point

0.00

4,749.84

-24.67

466,776.720

728,966.570

32° 16' 54.422 N 103° 43' 34.305 W

HEAL TGT(ALD25#7)

- plan hits target center
- Point

0.00

460.01

-2.23

462,486.890

728,989.010

32° 16' 11.971 N 103° 43' 34.328 W

Checked By

Approved By

Date:

NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP

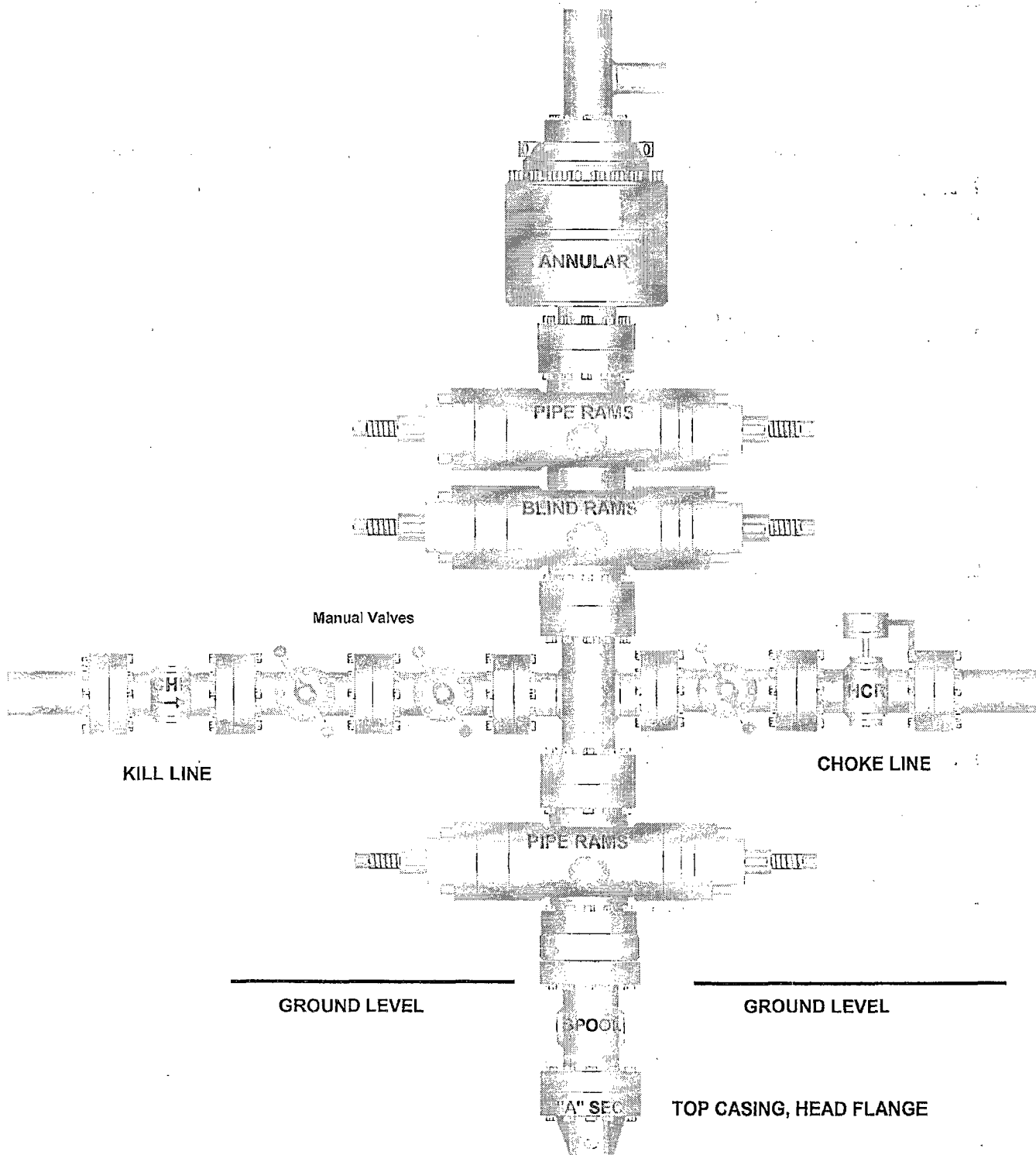
Aldabra 25 Federal 7H

Surface Location: 200' FSL & 1000' FEL, Unit P, Sec 25 T23S R31E, Eddy, NM

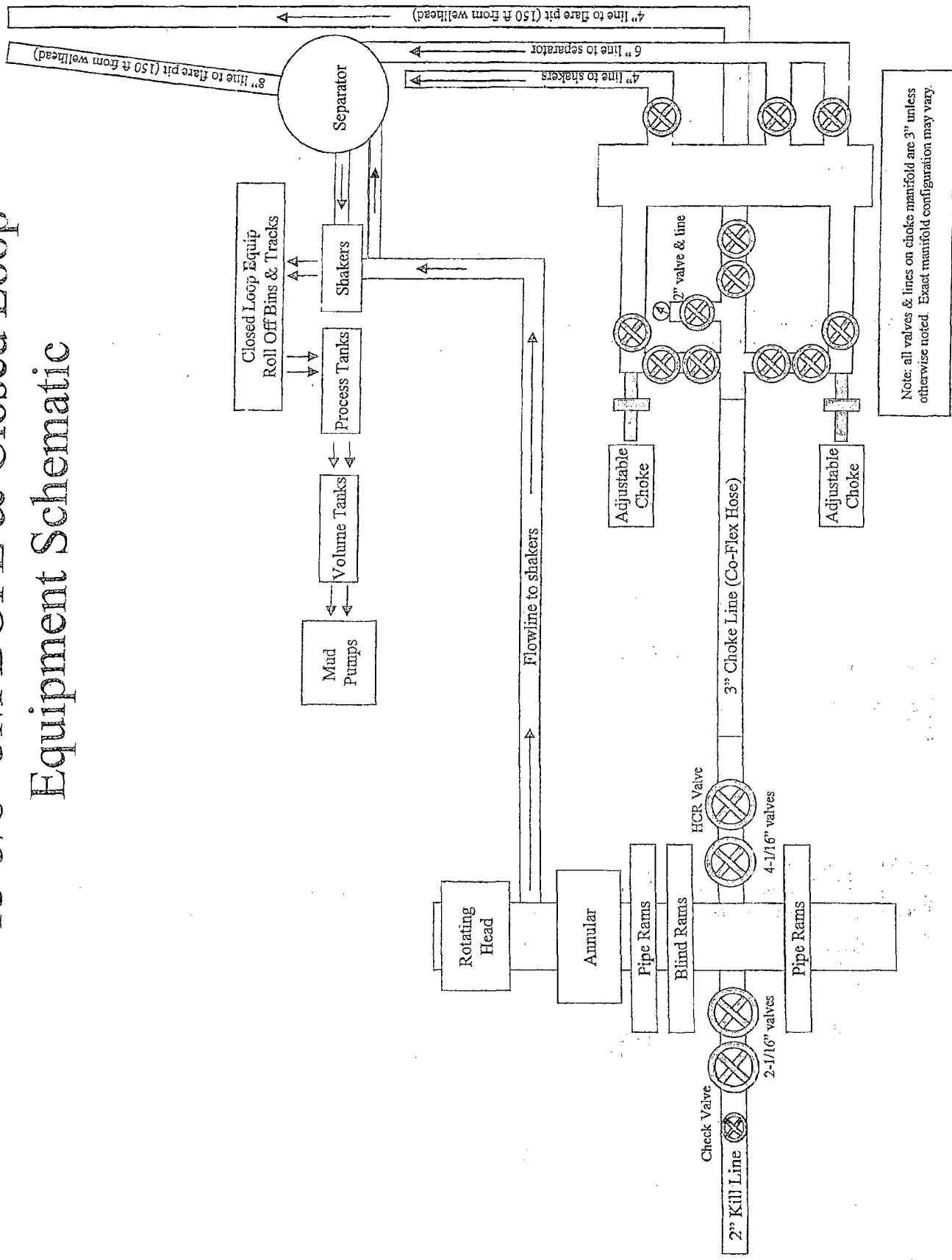
Bottom Hole Location: 330' FNL & 1000' FEL, Unit A, Sec 25 T23S R31E, Eddy, NM

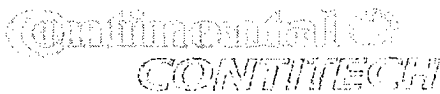
1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 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



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





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.

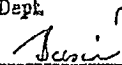
ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

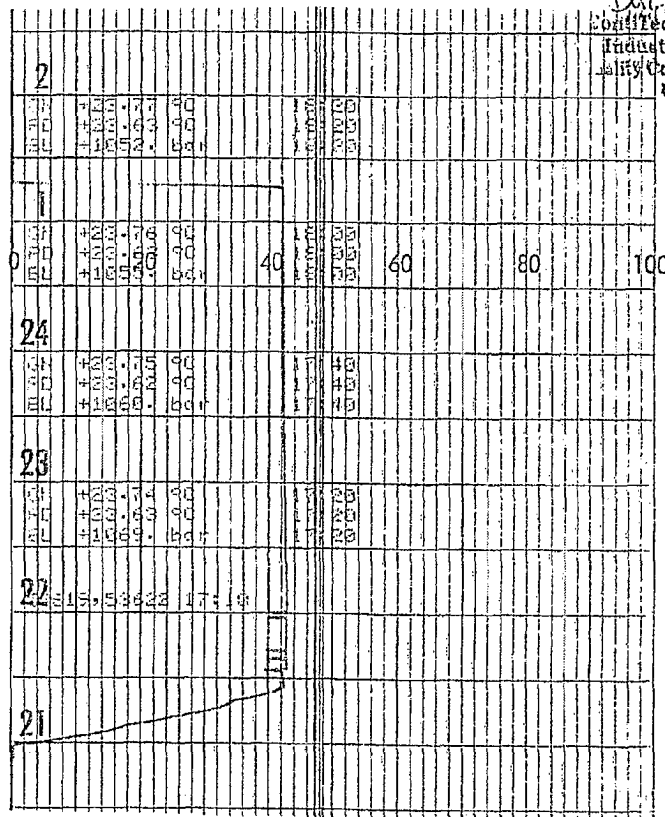
Robin Hodgson
Sales Manager
ContiTech Beattie Corp

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		5503 2029		AISI 4130	
4 1/16" Flange end				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:		Inspector		Quality Control	
25. August. 2008				ContiTech Rubber Industrial Kft. Quality Control Dept.  	

HARTMANN &



ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(2)

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator DEVON ENERGY PROD CO LP OGRID # 6137
 38553 Well Name & # ALABAMA 25 FEDERAL #7H Surface Type (F) (S) (P)
 Location: UL P Sect 25, Twnship 23 s, RNG 31 e, Sub-surface Type (F) (S) (P)
A 25 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 X

2. Inactive Well list as of: 3/28/2011 # wells 1492, # 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: / /

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 X, NO , Signature X

1. Pool WILDCAT; BONE SPRING, Code 96403

a. Dedicated acreage 160, What Units AAHIP

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

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

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

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes X, No

a. Dedicated acreage 160, What Units AAHIP

b. Bottomhole Location Standard X, Non-Standard Bottomhole

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 , No PART FEB APD

F. C144 Pit Registration Yes , No X need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No X, 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 3/28/11

API #30-0 15-38603

8. Reviewers