

OCD-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

5. Lease Serial No. **EA 11-80**
NM 040544A BHL
NM 040000544A/NM0544986 SHL

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
Aldabra 25 Federal 1H

9. API Well No.

30-015-38612

10. Field and Pool, or Exploratory
Bone Spring

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

SEC 25 T23S R31E

12. County or Parish
Eddy, County

13. State
NM

1a. Type of work: ☒ DRILL

☐ REENTER

SECRETARY'S POTASH

1b. 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 73102-8260

3b. 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 & 635 FWL (Unit M)**

At proposed prod. zone **330 FNL & 400 FWL Unit D**

14. Distance in miles and direction from nearest town or post office*
Approximately 20 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

1840 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

13,680' MD 9050' TVD

20. BLM/BIA Bond No. on file

CO-1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3483' 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

10/18/2010

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)

CARLSBAD CONTROLLED WATER BASIN

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED**

DRILLING PROGRAM

Devon Energy Production Company, LP

Aldabra 25 Federal 1H

Surface Location: 200' FSL & 635' FWL, Unit M, Sec 25 T23S R31E, Eddy, NM

Bottom Hole Location: 330' FNL & 400' FWL, Unit D, 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	810'	
b. Salado Salt	1166'	
c. Base of Salt	4250'	
d. Lamar	4480'	
e. Bell Canyon	4518'	
f. Cherry Canyon	5393'	
g. Brushy Canyon	6613'	
h. Avalon/Top of Bone Spring FM	8303'	Oil
Total Depth	13,680'	

See COA

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 875' and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4450' and circulating cement to surface. The 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"	0-875'	13 3/8"	0'-875'	48#	ST&C	H-40
12 1/4"	875-4450'	9 5/8"	0'-4450'	40#	LT&C	J-55
8 3/4"	4450-7500'	5 1/2"	0'-7500'	17#	LT&C	HCP110
8 3/4"	7500-13,680'	5 1/2"	7500-13,680'	17#	BT&C	HCP-110

See COA

6180'

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"	1.88	4.22	7.67
9 5/8" 40#	1.13	1.71	2.92
5 1/2" 17# LTC	2.13	3.03	1.92
5 1/2" 17# BTC	1.77	2.53	5.25

See COA

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 1.23 for the 9-5/8" 40# J-55 LTC casing at a depth of 4,450 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

Lead: 595 sx Cl C t + 2% bwoc Calcium Chloride + 0.125#/sx CF + 4% bwoc Bentonite + 81.4% FW 13.5 ppg. Yield: 1.75 cf/sx. TOC @ surface. Tail: 250sx Cl C + 2% bwoc Calcium Chloride + 0.125#/sx CF + 56.3% FW, 14.8 ppg. Yield: 1.35 cf/sx.

9 5/8" Intermediate

Lead: 1,200 sx (35:65) Poz (Fly Ash):Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 6% bwoc Bentonite + 107.8% FW 12.5 ppg Yield: 2.04 cf/sx. TOC @ surface. Tail: 300 sx (60:40) Poz (Fly Ash):Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Wtr, 13.8 ppg Yield: 1.37 cf/sx.

5 1/2" Production

1st Stage 5090

Lead: 560 sx (35:65) Poz (Fly Ash):Cl H + 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% FW 12.5 ppg. Yield: 2.01 cf/sx. Tail: 1,400 sx (50:50) Poz (Fly Ash):Cl H + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125#/sx CF + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% FW 14.2 ppg. Yield: 1.28 cf/sx.

DV TOOL at 6,000'

2nd Stage 9190

Lead: 325 sx Cl C + 1% bwow Calcium Chloride + 0.125#/sx CF + 157.8% FW 11.4 ppg Yield: 2.88 cf/sx. Tail: 100 sx (60:40) Poz (Fly Ash):Cl C + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125#/sx CF + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% FW 13.8 ppg. Yield: 1.37cf/sx

~~DV TOOL at 3,800'~~

3rd Stage 2490 excess

Lead: 375 sx Cl C + 1% bwow Calcium Chloride + 0.125#/sx CF + 157.8% FW 11.4 ppg Yield: 2.91 cf/sx TOC @ surface. Tail: 100 sx (60:40) Poz (Fly Ash):Cl C + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125#/sx CF + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% FW 13.8 ppg. Yield: 1.37cf/sx.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach approximately 500' above the 9 5/8" casing shoe. 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" 5M ~~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" 5M ~~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**.

Proposed Mud Circulation System

Depth	Mud Wt.	Visc	Fluid Loss	Type System
0' - 875'	8.4-9.0	30-34	NC	FW
875' - 4450'	9.8-10.0	28-32	NC	Brine
4450' - 13,680'	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. A Kelly cock will be in the drill string at all times.
- b. 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.

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

- 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.

6. **Potential Hazards:**

- a. 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:**

- 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.



Project: Eddy County
Site: Aldabra "25" Fed
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H/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: -0.32°
Magnetic North: 7.42°

Magnetic Field
Strength: 48725.9snT
Dip Angle: 60.24°
Date: 10/12/2010
Model: IGRF200510



A Schlumberger Company

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

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	8181.00	0.00	0.00	8181.00	0.00	0.00	0.00	0.00	0.00		
3	8406.06	24.76	222.15	8399.11	-35.50	-32.13	11.00	222.15	-33.69	Heal TGT(Aldabra 25 #1)	
4	9387.68	90.00	359.70	9050.00	458.71	-237.34	11.00	134.79	470.98	Heal TGT(Aldabra 25 #1)	
5	13680.37	90.00	359.70	9050.00	4751.34	-259.68	0.00	0.00	4758.43	PBHL(Aldabra #1H)	

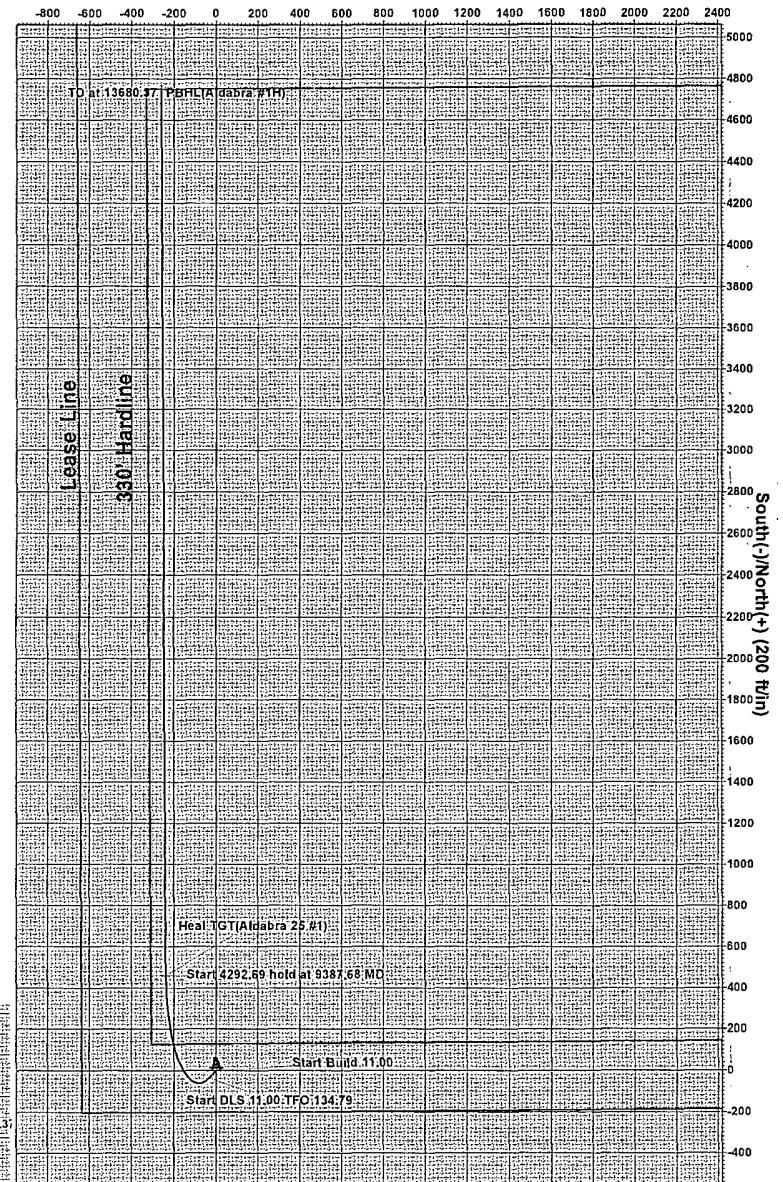
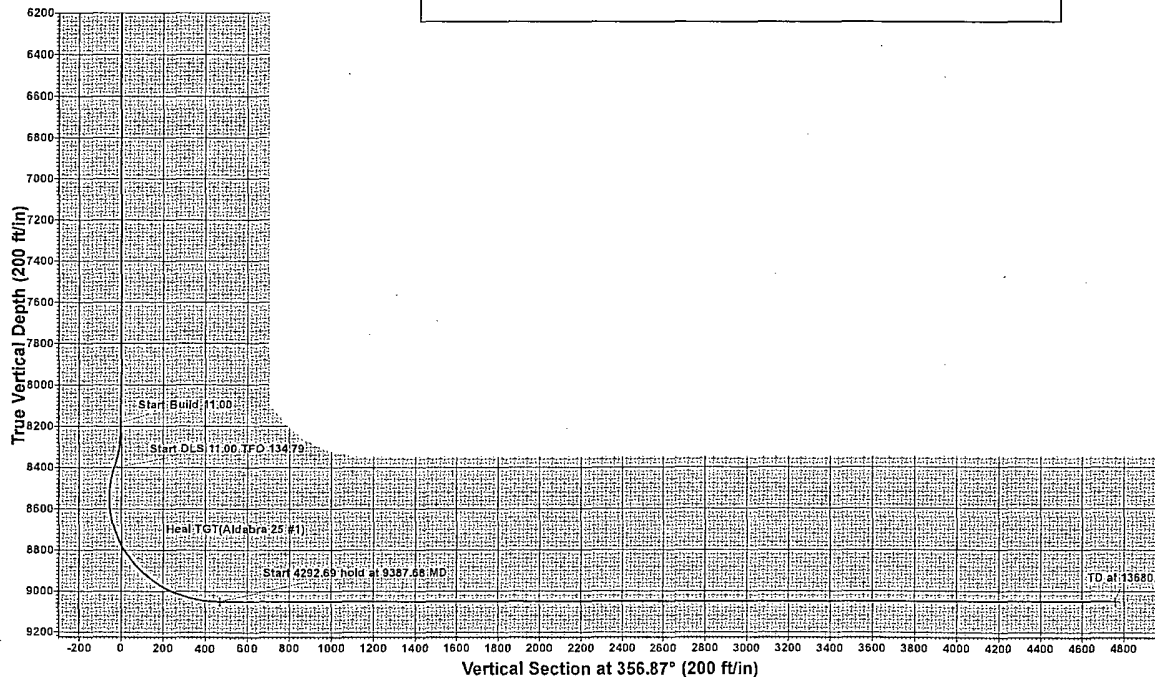
WELL DETAILS: #1H

Ground Elevation: 3483.80
RKB Elevation: WELL @ 3508.80R (25' Kb Correction)
Rig Name: 25' Kb Correction

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	462005.540	725347.710	32° 16' 7.410 N	103° 44' 16.767 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Heal TGT(Aldabra 25 #1)	9050.00	458.71	-237.34	462464.250	725110.370	Point
PBHL(Aldabra #1H)	9050.00	4751.34	-259.68	466756.880	725086.030	Point



Plan: Plan #1 (#1H/OH)

Created By: Nate Bingham Date: 11:28, October 12 2010



Devon Energy, Inc.

Eddy County

Aldabra "25" Fed

#1H

OH

Plan: Plan #1

Pathfinder X & Y Planning Report

12 October, 2010



A Schlumberger Company



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

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

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3508.80ft (25' Kb Correction)
MD Reference: WELL @ 3508.80ft (25' Kb Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project Eddy County

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Aldabra "25" Fed

Site Position:	Northings:	462,005.540 ft	Latitude:	32° 16' 7.410 N
From: Map	Easting:	725,347.710 ft	Longitude:	103° 44' 16.767 W
Position Uncertainty: 0.00 ft	Slot Radius:	"	Grid Convergence:	0.32 °

Well #1H

Well Position	+N/-S	0.00 ft	Northings:	462,005.540 ft	Latitude:	32° 16' 7.410 N
	+E/-W	0.00 ft	Easting:	725,347.710 ft	Longitude:	103° 44' 16.767 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,483.80 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/12/10	7.74	60.24	48,726

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	356.87

Survey Tool Program Date 10/12/10

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	13,679.91	Plan #1 (OH)	Pathfinder	Pathfinder MWD



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
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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)
0.00	0.00	0.00	0.00	-3,508.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
100.00	0.00	0.00	100.00	-3,408.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
200.00	0.00	0.00	200.00	-3,308.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
300.00	0.00	0.00	300.00	-3,208.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
400.00	0.00	0.00	400.00	-3,108.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
500.00	0.00	0.00	500.00	-3,008.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
600.00	0.00	0.00	600.00	-2,908.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
700.00	0.00	0.00	700.00	-2,808.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
800.00	0.00	0.00	800.00	-2,708.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
900.00	0.00	0.00	900.00	-2,608.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,000.00	0.00	0.00	1,000.00	-2,508.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,100.00	0.00	0.00	1,100.00	-2,408.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,200.00	0.00	0.00	1,200.00	-2,308.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,300.00	0.00	0.00	1,300.00	-2,208.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,400.00	0.00	0.00	1,400.00	-2,108.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,500.00	0.00	0.00	1,500.00	-2,008.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,600.00	0.00	0.00	1,600.00	-1,908.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,700.00	0.00	0.00	1,700.00	-1,808.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,800.00	0.00	0.00	1,800.00	-1,708.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
1,900.00	0.00	0.00	1,900.00	-1,608.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,000.00	0.00	0.00	2,000.00	-1,508.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,100.00	0.00	0.00	2,100.00	-1,408.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,200.00	0.00	0.00	2,200.00	-1,308.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,300.00	0.00	0.00	2,300.00	-1,208.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,400.00	0.00	0.00	2,400.00	-1,108.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,500.00	0.00	0.00	2,500.00	-1,008.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,600.00	0.00	0.00	2,600.00	-908.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71



Pathfinder
Pathfinder X & Y Planning Report

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A Schlumberger Company

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2,700.00	0.00	0.00	2,700.00	-808.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,800.00	0.00	0.00	2,800.00	-708.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
2,900.00	0.00	0.00	2,900.00	-608.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,000.00	0.00	0.00	3,000.00	-508.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,100.00	0.00	0.00	3,100.00	-408.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,200.00	0.00	0.00	3,200.00	-308.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,300.00	0.00	0.00	3,300.00	-208.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,400.00	0.00	0.00	3,400.00	-108.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,500.00	0.00	0.00	3,500.00	-8.80	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,600.00	0.00	0.00	3,600.00	91.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,700.00	0.00	0.00	3,700.00	191.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,800.00	0.00	0.00	3,800.00	291.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
3,900.00	0.00	0.00	3,900.00	391.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,000.00	0.00	0.00	4,000.00	491.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,100.00	0.00	0.00	4,100.00	591.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,200.00	0.00	0.00	4,200.00	691.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,300.00	0.00	0.00	4,300.00	791.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,400.00	0.00	0.00	4,400.00	891.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,500.00	0.00	0.00	4,500.00	991.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,600.00	0.00	0.00	4,600.00	1,091.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,700.00	0.00	0.00	4,700.00	1,191.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,800.00	0.00	0.00	4,800.00	1,291.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
4,900.00	0.00	0.00	4,900.00	1,391.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,000.00	0.00	0.00	5,000.00	1,491.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,100.00	0.00	0.00	5,100.00	1,591.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,200.00	0.00	0.00	5,200.00	1,691.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,300.00	0.00	0.00	5,300.00	1,791.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

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

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3508.80ft (25' Kb Correction)
MD Reference: WELL @ 3508.80ft (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)
5,400.00	0.00	0.00	5,400.00	1,891.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,500.00	0.00	0.00	5,500.00	1,991.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,600.00	0.00	0.00	5,600.00	2,091.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,700.00	0.00	0.00	5,700.00	2,191.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,800.00	0.00	0.00	5,800.00	2,291.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
5,900.00	0.00	0.00	5,900.00	2,391.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,000.00	0.00	0.00	6,000.00	2,491.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,100.00	0.00	0.00	6,100.00	2,591.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,200.00	0.00	0.00	6,200.00	2,691.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,300.00	0.00	0.00	6,300.00	2,791.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,400.00	0.00	0.00	6,400.00	2,891.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,500.00	0.00	0.00	6,500.00	2,991.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,600.00	0.00	0.00	6,600.00	3,091.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,700.00	0.00	0.00	6,700.00	3,191.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,800.00	0.00	0.00	6,800.00	3,291.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
6,900.00	0.00	0.00	6,900.00	3,391.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,000.00	0.00	0.00	7,000.00	3,491.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,100.00	0.00	0.00	7,100.00	3,591.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,200.00	0.00	0.00	7,200.00	3,691.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,300.00	0.00	0.00	7,300.00	3,791.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,400.00	0.00	0.00	7,400.00	3,891.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,500.00	0.00	0.00	7,500.00	3,991.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,600.00	0.00	0.00	7,600.00	4,091.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,700.00	0.00	0.00	7,700.00	4,191.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,800.00	0.00	0.00	7,800.00	4,291.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
7,900.00	0.00	0.00	7,900.00	4,391.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
8,000.00	0.00	0.00	8,000.00	4,491.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71



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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)
8,100.00	0.00	0.00	8,100.00	4,591.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
8,181.00	0.00	0.00	8,181.00	4,672.20	0.00	0.00	0.00	0.00	462,005.54	725,347.71
8,200.00	2.09	222.15	8,200.00	4,691.20	-0.26	-0.23	-0.24	11.00	462,005.28	725,347.48
8,250.00	7.59	222.15	8,249.80	4,741.00	-3.38	-3.06	-3.21	11.00	462,002.16	725,344.65
8,300.00	13.09	222.15	8,298.97	4,790.17	-10.04	-9.09	-9.53	11.00	461,995.50	725,338.62
8,350.00	18.59	222.15	8,347.05	4,838.25	-20.15	-18.24	-19.13	11.00	461,985.39	725,329.47
8,400.00	24.10	222.15	8,393.60	4,884.80	-33.64	-30.45	-31.93	11.00	461,971.90	725,317.26
8,406.06	24.76	222.15	8,399.11	4,890.31	-35.50	-32.13	-33.69	11.00	461,970.04	725,315.58
8,450.00	21.61	231.50	8,439.52	4,930.72	-47.36	-44.65	-44.86	11.00	461,958.18	725,303.06
8,500.00	18.87	245.34	8,486.45	4,977.65	-56.48	-59.21	-53.16	11.00	461,949.06	725,288.50
8,550.00	17.42	262.46	8,534.00	5,025.20	-60.83	-73.99	-56.71	11.00	461,944.71	725,273.72
8,600.00	17.60	280.80	8,581.72	5,072.92	-60.40	-88.85	-55.46	11.00	461,945.14	725,258.86
8,650.00	19.36	297.32	8,629.17	5,120.37	-55.18	-103.65	-49.44	11.00	461,950.36	725,244.06
8,700.00	22.32	310.40	8,675.92	5,167.12	-45.21	-118.26	-38.69	11.00	461,960.33	725,229.45
8,750.00	26.09	320.22	8,721.54	5,212.74	-30.60	-132.53	-23.32	11.00	461,974.94	725,215.18
8,800.00	30.35	327.59	8,765.60	5,256.80	-11.47	-146.35	-3.47	11.00	461,994.07	725,201.36
8,850.00	34.94	333.24	8,807.70	5,298.90	12.00	-159.58	20.69	11.00	462,017.54	725,188.13
8,900.00	39.73	337.70	8,847.45	5,338.65	39.59	-172.10	48.92	11.00	462,045.13	725,175.61
8,950.00	44.66	341.34	8,884.48	5,375.68	71.04	-183.79	80.97	11.00	462,076.58	725,163.92
9,000.00	49.69	344.39	8,918.47	5,409.67	106.08	-194.55	116.54	11.00	462,111.62	725,153.16
9,050.00	54.79	347.01	8,949.08	5,440.28	144.37	-204.28	155.30	11.00	462,149.91	725,143.43
9,100.00	59.93	349.32	8,976.04	5,467.24	185.56	-212.89	196.91	11.00	462,191.10	725,134.82
9,150.00	65.11	351.40	8,999.10	5,490.30	229.28	-220.30	240.96	11.00	462,234.82	725,127.41
9,200.00	70.32	353.31	9,018.06	5,509.26	275.12	-226.44	287.07	11.00	462,280.66	725,121.27
9,250.00	75.55	355.10	9,032.72	5,523.92	322.66	-231.25	334.80	11.00	462,328.20	725,116.46
9,300.00	80.79	356.81	9,042.97	5,534.17	371.46	-234.70	383.71	11.00	462,377.00	725,113.01
9,350.00	86.04	358.47	9,048.70	5,539.90	421.07	-236.74	433.36	11.00	462,426.61	725,110.97



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

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Project: Eddy County
Site: Aldabra "25" Fed
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3508.80ft (25' Kb Correction)
MD Reference: WELL @ 3508.80ft (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)
9,387.68	90.00	359.70	9,050.00	5,541.20	458.71	-237.34	470.98	11.00	462,464.25	725,110.37
Heal TGT(Aldabra 25 #1)										
9,400.00	90.00	359.70	9,050.00	5,541.20	471.03	-237.40	483.28	0.00	462,476.57	725,110.31
9,500.00	90.00	359.70	9,050.00	5,541.20	571.03	-237.92	583.16	0.00	462,576.57	725,109.79
9,600.00	90.00	359.70	9,050.00	5,541.20	671.03	-238.44	683.04	0.00	462,676.57	725,109.27
9,700.00	90.00	359.70	9,050.00	5,541.20	771.03	-238.97	782.92	0.00	462,776.57	725,108.74
9,800.00	90.00	359.70	9,050.00	5,541.20	871.03	-239.49	882.80	0.00	462,876.57	725,108.22
9,900.00	90.00	359.70	9,050.00	5,541.20	971.02	-240.01	982.67	0.00	462,976.56	725,107.70
10,000.00	90.00	359.70	9,050.00	5,541.20	1,071.02	-240.53	1,082.55	0.00	463,076.56	725,107.18
10,100.00	90.00	359.70	9,050.00	5,541.20	1,171.02	-241.05	1,182.43	0.00	463,176.56	725,106.66
10,200.00	90.00	359.70	9,050.00	5,541.20	1,271.02	-241.57	1,282.31	0.00	463,276.56	725,106.14
10,300.00	90.00	359.70	9,050.00	5,541.20	1,371.02	-242.09	1,382.19	0.00	463,376.56	725,105.62
10,400.00	90.00	359.70	9,050.00	5,541.20	1,471.02	-242.61	1,482.06	0.00	463,476.56	725,105.10
10,500.00	90.00	359.70	9,050.00	5,541.20	1,571.02	-243.13	1,581.94	0.00	463,576.56	725,104.58
10,600.00	90.00	359.70	9,050.00	5,541.20	1,671.01	-243.65	1,681.82	0.00	463,676.55	725,104.06
10,700.00	90.00	359.70	9,050.00	5,541.20	1,771.01	-244.17	1,781.70	0.00	463,776.55	725,103.54
10,800.00	90.00	359.70	9,050.00	5,541.20	1,871.01	-244.69	1,881.58	0.00	463,876.55	725,103.02
10,900.00	90.00	359.70	9,050.00	5,541.20	1,971.01	-245.21	1,981.45	0.00	463,976.55	725,102.50
11,000.00	90.00	359.70	9,050.00	5,541.20	2,071.01	-245.73	2,081.33	0.00	464,076.55	725,101.98
11,100.00	90.00	359.70	9,050.00	5,541.20	2,171.01	-246.25	2,181.21	0.00	464,176.55	725,101.46
11,200.00	90.00	359.70	9,050.00	5,541.20	2,271.01	-246.77	2,281.09	0.00	464,276.55	725,100.94
11,300.00	90.00	359.70	9,050.00	5,541.20	2,371.00	-247.29	2,380.97	0.00	464,376.54	725,100.42
11,400.00	90.00	359.70	9,050.00	5,541.20	2,471.00	-247.81	2,480.84	0.00	464,476.54	725,099.90
11,500.00	90.00	359.70	9,050.00	5,541.20	2,571.00	-248.33	2,580.72	0.00	464,576.54	725,099.38
11,600.00	90.00	359.70	9,050.00	5,541.20	2,671.00	-248.85	2,680.60	0.00	464,676.54	725,098.86
11,700.00	90.00	359.70	9,050.00	5,541.20	2,771.00	-249.37	2,780.48	0.00	464,776.54	725,098.34
11,800.00	90.00	359.70	9,050.00	5,541.20	2,871.00	-249.89	2,880.36	0.00	464,876.54	725,097.82



Pathfinder
Pathfinder X & Y Planning Report



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Project: Eddy County
Site: Aldabra "25" Fed
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #1H
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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)
11,900.00	90.00	359.70	9,050.00	5,541.20	2,971.00	-250.41	2,980.24	0.00	464,976.54	725,097.30
12,000.00	90.00	359.70	9,050.00	5,541.20	3,071.00	-250.94	3,080.11	0.00	465,076.54	725,096.77
12,100.00	90.00	359.70	9,050.00	5,541.20	3,170.99	-251.46	3,179.99	0.00	465,176.53	725,096.25
12,200.00	90.00	359.70	9,050.00	5,541.20	3,270.99	-251.98	3,279.87	0.00	465,276.53	725,095.73
12,300.00	90.00	359.70	9,050.00	5,541.20	3,370.99	-252.50	3,379.75	0.00	465,376.53	725,095.21
12,400.00	90.00	359.70	9,050.00	5,541.20	3,470.99	-253.02	3,479.63	0.00	465,476.53	725,094.69
12,500.00	90.00	359.70	9,050.00	5,541.20	3,570.99	-253.54	3,579.50	0.00	465,576.53	725,094.17
12,600.00	90.00	359.70	9,050.00	5,541.20	3,670.99	-254.06	3,679.38	0.00	465,676.53	725,093.65
12,700.00	90.00	359.70	9,050.00	5,541.20	3,770.99	-254.58	3,779.26	0.00	465,776.53	725,093.13
12,800.00	90.00	359.70	9,050.00	5,541.20	3,870.98	-255.10	3,879.14	0.00	465,876.52	725,092.61
12,900.00	90.00	359.70	9,050.00	5,541.20	3,970.98	-255.62	3,979.02	0.00	465,976.52	725,092.09
13,000.00	90.00	359.70	9,050.00	5,541.20	4,070.98	-256.14	4,078.89	0.00	466,076.52	725,091.57
13,100.00	90.00	359.70	9,050.00	5,541.20	4,170.98	-256.66	4,178.77	0.00	466,176.52	725,091.05
13,200.00	90.00	359.70	9,050.00	5,541.20	4,270.98	-257.18	4,278.65	0.00	466,276.52	725,090.53
13,300.00	90.00	359.70	9,050.00	5,541.20	4,370.98	-257.70	4,378.53	0.00	466,376.52	725,090.01
13,400.00	90.00	359.70	9,050.00	5,541.20	4,470.98	-258.22	4,478.41	0.00	466,476.52	725,089.49
13,500.00	90.00	359.70	9,050.00	5,541.20	4,570.98	-258.74	4,578.28	0.00	466,576.52	725,088.97
13,600.00	90.00	359.70	9,050.00	5,541.20	4,670.97	-259.26	4,678.16	0.00	466,676.51	725,088.45
13,680.37	90.00	359.70	9,050.00	5,541.20	4,751.34	-259.68	4,758.43	0.00	466,756.88	725,088.03

PBHL(Aldabra #1H)



Pathfinder
Pathfinder X & Y Planning Report



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Wellbore: OH
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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
Heal TGT(Aldabra 25 - plan hits target center - Point	0.00	0.00	9,050.00	458.71	-237.34	462,464.250	725,110.370	32° 16' 11.962 N	103° 44' 19.502 W
PBHL(Aldabra #1H) - plan hits target center - Point	0.00	0.00	9,050.00	4,751.34	-259.68	466,756.880	725,088.030	32° 16' 54.440 N	103° 44' 19.485 W

Checked By: _____ Approved By: _____ Date: _____

NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP

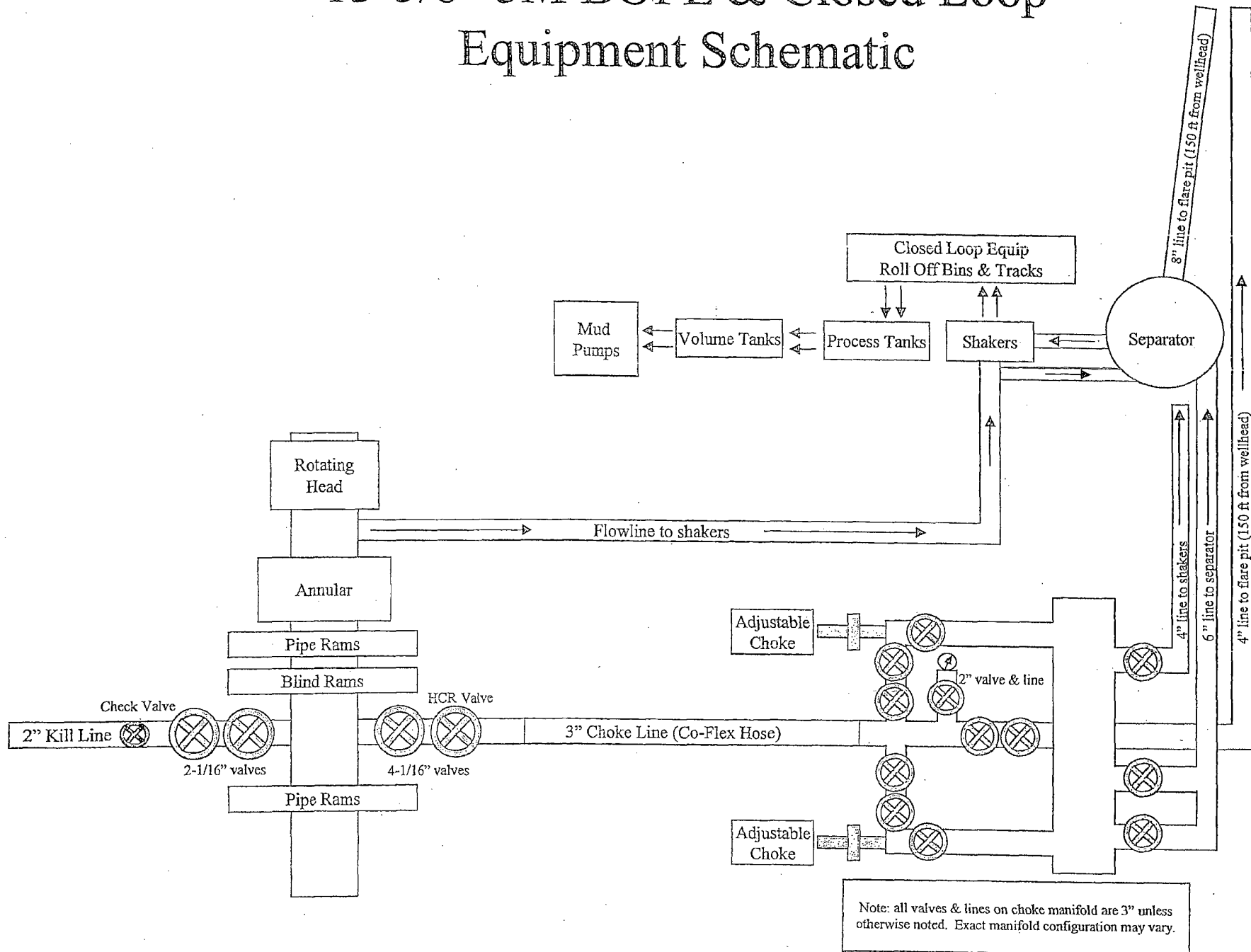
Aldabra 25 Federal 1H

Surface Location: 200' FSL & 635' FWL, Unit M, Sec 25 T23S R31E, Eddy, NM

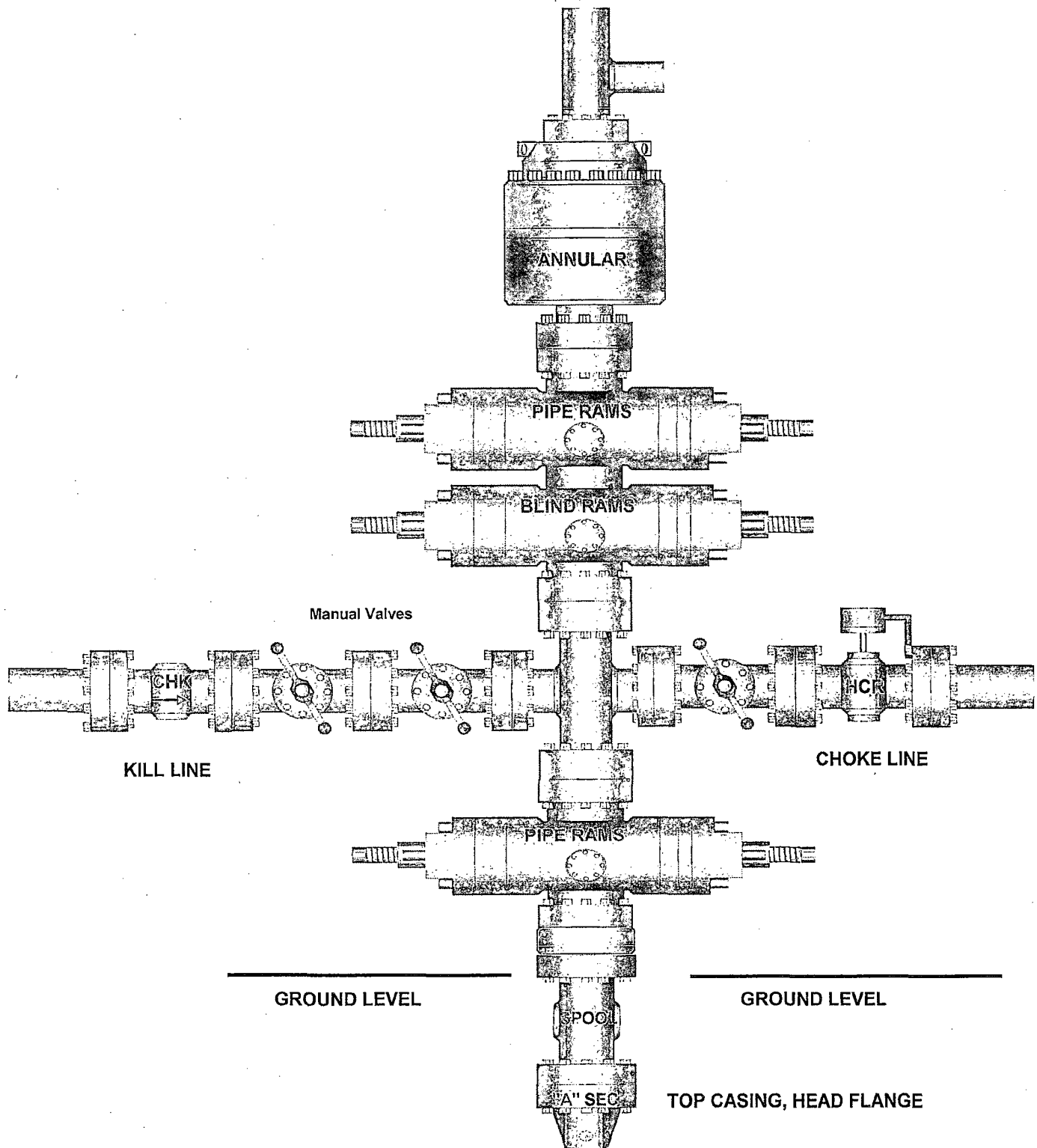
Bottom Hole Location: 330' FNL & 400' FWL, Unit D, Sec 25 T23S R31E, Eddy, NM

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" 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.

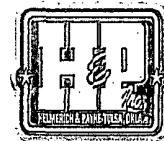
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

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 DOCUMENT

**PHOENIX RUBBER
INDUSTRIAL LTD.**

H-6728 Szeged, Budapesti út 10, Hungary • H-6701 Szeged, P. O. Box 152
Phone: (3662) 566-737 • Fax: (3662) 566-738

SALES & MARKETING: H-1092 Budapest, Ráday út, 42-44, Hungary • H-1440 Budapest, P. O. Box 28
Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.leurusamargo.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 555	
PURCHASER: Phoenix Beattie Co.				P.O. N°: 1519FA-871	
PHOENIX RUBBER order N°: 170466		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 34137		NOMINAL / ACTUAL LENGTH: 11,43 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 = 16 MPa					
COUPLINGS					
Type	Serial N°	Quality	Heat N°		
3" coupling with 4 1/16" Flange end	714 715	AISI 4130	C7626		
		AISI 4130	47357		
API Spec 16 C Temperature rate: "B"					
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date: 30. April. 2002.	Inspector	Quality Control PHOENIX RUBBER Industrial Ltd. Hose Inspection and Test Center			

[illegible]

PHOENIX RUBBER
Industrial Ltd.
Hose Inspection and
Certification Dept.

VERIFIED TRUE COPY
PHOENIX RUBBER CO. S.

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator DEVON ENERGY PROD CO LP OGRID # 6137
 38553 Well Name & # ALDABRA 25 FED # 14 Surface Type (F)(S)(P)
 Location: UL M, Sect 25, Township 23s, RNG 31e, Sub-surface Type (F)(S)(P)
D-25-23-31

A. Date C101 rec'd 3/30/11 C101 reviewed 3/30/11

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

OGRID X, BONDING X, PROP CODE X, WELL # X, SIGNATURE [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 X, NO , Signature [Signature]

1. Pool WILDCAT BONE SPRING Code 96403

a. Dedicated acreage 160, What Units DELM

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

c. Well shares acres: Yes , No , # of wells plus this well # #2H

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 DELM

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 X, No Standard

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 3/30/11

API #30-015-38612

8. Reviewers KZ