| Form 3160-5 (August 2007) DE B | UNITED STATES EPARTMENT OF THE INTE UREAU OF LAND MANAGEN | FORM OMB N Expires 5. Lease Serial No. NMNM054498 | 1 APPROVED NO. 1004-0135 S: July 31, 2010 | | | |
|---|---|---|--|---|--|--|
| Do not use the abandoned we | is form for proposals to dril. II. Use form 3160-3 (APD) fo | l or to re-enter an or such proposals. | 6. If Indian, Allottee | or Tribe Name | | |
| SUBMIT IN TRI | PLICATE - Other instructior | ns on reverse side. | 7. If Unit or CA/Agr | 7. If Unit or CA/Agreement, Name and/or No. | | |
| 1. Type of Well Soll Well Gas Well Oth | ner | | 8. Well Name and No ALDABRA 25 FE | DERAL 2H | | |
| 2. Name of Operator DEVON ENERGY PRODUCT | Contact: TRI ON CO.EPMail: trina.couch@dv | NA C COUCH /n.com | 9. API Well No. 30-015-38613 | | | |
| 3a. Address DEVON ENERGY PRODUCT OKLAHOMA CITY, OK 7310 | te) 10. Field and Pool, o A CITY, OK 73102A9005CAT; BO | r Exploratory NE SPRING | | | | |
| 4. Location of Well -(Föotage, Sec., 7 | ., R., M., or Survey Description) | | 11. County or Parish | , and State | | |
| Sec 25 T23S R31E 200FSL 6 | 85FWL | | EDDY COUNT | Y COUNTY, NM | | |
| 12. CHECK APPI | ROPRIATE BOX(ES) TO IN | DICATE NATURE OF | NOTICE, REPORT, OR OTHE | ER DATA | | |
| TYPE OF SUBMISSION | | TYPE | OF ACTION | | | |
| B Notice of Intent | 🗖 Acidize | Deepen | Production (Start/Resume) | U Water Shut-Off | | |
| Nonee of men | Alter Casing | Fracture Treat | Reclamation | Well Integrity | | |
| Subsequent Report | 🗖 Casing Repair | New Construction | Recomplete | Other | | |
| Final Abandonment Notice | Change Plans | Plug and Abandon | Temporarily Abandon | PD | | |
| | Convert to Injection | Plug Back | Water Disposal | | | |
| If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f | ally or recomplete horizontally, give rk will be performed or provide the E l operations. If the operation results pandonment Notices shall be filed on inal inspection.) | subsurface locations and meas sond No. on file with BLM/B in a multiple completion or re ly after all requirements, incl | Inglate of any proposed work an appro- source and true vertical depths of all perti- IA. Required subsequent reports shall be completion in a new interval, a Form 31 uding reclamation, have been completed | inent markers and zones. ie filed within 30 days 60-4 shall be filed once and the operator has | | |
| string design. We will set a se mitigate the risk of lost returns lateral section will now be a 8- | cond intermediate 9-5/8" casi s while drilling our lateral prod 1/2" hole due to casing ID res | ng below the Delaware uction section. The curv strictions. | formation to e and | - | | |
| Please see the following attac Drilling Plan Directional Survey Thank you | hments: REC ad for recold NOV MOCD | DEIVED | SEE ATTACHED F CONDITIONS OF A | OR IPPROVAL | | |
| 14. I hereby certify that the foregoing is | true and correct. Electronic Submission #2231 | 62 verified by the BLM W | ell Information System | <u> </u> | | |
| | For DEVON ENERGY P Committed to AFMSS for proc | RODUCTION CO.LP, sen essing by JOHNNY DICK | it to the Carlsbad ERSON on 10/23/2013 () | | | |
| Name(Printed/Typed) TRINA C | COUCH | Title REGU | JLATORY ASSOCIATE | | | |
| Signature (Electronic S | Submission) | Date 10/16/ | APPRO | VFD | | |
| | THIS SPACE FOR F | EDERAL OR STATE | OFFICE USE | | | |
| Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or equ which would entitle the applicant to condu | d. Approval of this notice does not v itable title to those rights in the subj ict operations thereon. | varrant or ect lease Office | BOREAU OF LANEM | | | |
| Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent | U.S.C. Section 1212, make it a crime statements or representations as to an | e for any person knowingly an ay matter within its jurisdiction | nd willfully to make to any department on. | or agency of the United | | |

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

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Aldabra 25 Fed 2H– Sundry DRILLING PLAN RJC 10.09.13

Casing Program

| <u>Hole</u> <u>Size</u> | <u>Hole</u> Interval | OD Csg | <u>Casing</u> Interval | <u>Weight</u> | <u>Collar</u> | Grade |
|----------------------------|-------------------------|---------|---------------------------|---------------|---------------|----------|
| 26" | 0 - 900 | 20" | 0 - 900 | 94# | STC | J-55 |
| 17-1/2" | 900 - 4,450 | 13-3/8" | 0-4,450 | 68# | BTC | HCL-80 |
| 12-1/4" | 4,450 - 8,350 | 9-5/8" | 0 - 8,350 | 43.5# | BTC | HCP-110 |
| 8-1/2" | 8,350 - 15,033 | 5-1/2" | 0 - 15,033 | 17# | BTC | HCPP-110 |

MAX TVD: 10,471 FT

Design Factors

| Casing Size | Collapse Design Factor | Burst Design Factor | Tension Design Factor |
|----------------------------|-------------------------------|----------------------------|-----------------------|
| 20", 94#, J-55, BT&C | 1.16 | 4.70 | 16.57 |
| 13-3/8", 68#,L-80HC, BT&C | 1.162 | 1.49 | 3.77 |
| 9-5/8", 43.5#, P-110, LT&C | 1.402 | 2.18 | 3.04 |
| 5-1/2", 17#, HCP-110, BT&C | 1.64 | 2.04 | 6.65 |

Mud Program

| <u>Depth</u> | <u>Mud Wt.</u> | <u>Visc.</u> | Fluid Loss | Type System |
|----------------|----------------|--------------|------------|--------------|
| 0 - 900 | 8.4 - 9.0 | 30 - 34 | N/C | FW |
| 900 - 4,450 | 9.8 - 10.0 | 28-32 | N/C | Brine |
| 4,450 - 8,350 | 8.6 - 9.2 | 28 - 32 | N/C | FW/Cut Brine |
| 8,350 - 15,033 | 9.2 – 9.6 | 28 - 32 | N/C | Cut Brine |

Pressure Control Equipment

The BOP system used to drill the **17-1/2**" hole will consist of a **20**" **2M Annular preventer**. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a **2M system** prior to drilling out the casing shoe.

A 3M 13-5/8"-BOP system (Triple Ram and Annular preventer) will be installed and tested prior to drilling out the 12-1/4" and 8-1/2" hole sections. 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 casing shoes:

The pipe rams will be operated and checked as per Onshore Order No 2. 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); if an H&P rig drills this well. Otherwise no flex line is needed. The line will be kept as straight as possible with minimal turns.

Cement contingency plan: If lost circulation is encountered while drilling the 2nd intermediate well bore, 2 DV tools will be ran. The first one will be placed above the loss zone. The second will be placed a minimum of 50' below the previous casing shoe. If the DV tool does have to be moved, the cement volumes will be adjusted proportionately.

9-5/8" Intermediate #2 - 3 Stage

1st Stage

Lead: 140 sacks Tuned Light Class C Based + 2 lbs/sack Kol-Seal+ 0.125 lbs/sack Poly-E-Flake + 0.2 lb/sack HR-800 + 70.01 % Fresh Water, 10.4 ppg

Yield: 2.91 cf/sk

Water Requirement: 15.24gal/sk

Mix Water Volume: 51 bbls

TOC @ 7000ft

Tail: 205 sacks (50:50) Class H Cement: Poz (Fly Ash) + 0.2% bwoc Halad-9 + 2% bwoc Bentonite + 60.7% Fresh Water, 14.4 ppg

Yield: 1.24 cf/sk

Water Requirement: 5.75 gal/sk

Mix Water Volume: 28bbls

2nd Stage DV Tool at 7000ft

Lead: 385 sacks Tuned Light Class C Based + 2 lbs/sack Kol-Seal+ 0.125 lbs/sack Poly-E-Flake + 0.2 lb/sack HR-800 + 70.01 % Fresh Water, 10.4 ppg

Yield: 2.91 cf/sk

Water Requirement: 15.24gal/sk

Mix Water Volume: 140bbls

TOC @ 4500ft

Tail: 180 sacks Class C Cement + 63.5% Fresh Water, 14.8 ppg

Yield: 1.33 cf/sk

Water Requirement: 6.34 gal/sk

Mix Water Volume: 27bbls

3rd Stage DV Tool @ 4500ft Lead: 675 sacks Tuned Light Class C Based + 0.2 lb/sack HR-800 + 62.3 % Fresh Water, 11 ppg

Yield: 2.24 cf/sk

TOC @ surface

Water Requirement: 10.41 gal/sk



TOC @ surface

Mix Water Volume: 168bbls

Tail: 150 sacks Class C Cement + 63.5% Fresh Water, 14.8 ppg

Yield: 1.33 cf/sk

Water Requirement: 6.34 gal/sk

Mix Water Volume: 23bbls

5-1/2" Production

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Lead #1: 265 sacks (50:50). Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water, 11.9 ppg

Yield: 2.26 cf/sk

Water Requirement: 12.89 gal/sk

Mix Water Volume: 81bbls

TOC @ 7850ft

Tail: 1180 sacks (50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg

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Yield: 1.22 cf/sk

Water Requirement: 5.38 gal/sk

Mix Water Volume: 152bbls

| TOC for All Strings | | | | | | | | | | |
|--------------------------|----------------------------|---|--|--|--|--|--|--|--|--|
| Surface: 900ft | Oft | (500ft of Lead & 400ft of fill of Tail) | | | | | | | | |
| Intermediate#1: 4450ft | Oft | (3450ft of fill of Lead & 1000 ft of fill of Tail) | | | | | | | | |
| Intermediate#2: 8350ft | Oft (| (6850ft of fill of Lead & 1500 ft of fill of Tail) | | | | | | | | |
| Intermediate#2 – 2 Stage | 8350ft 550 0ft 1 | 0ft Stage #1 (1850ft of fill of Lead & 1000 ft of fill of Tail) Stage #2 (5000ft of fill of Lead & 500 ft of fill of Tail) | | | | | | | | |
| Intermediate#2 – 3 Stage | 8350ft 700 450 0ft 5 | Oft Stage #1 (850ft of fill of Lead & 500 ft of fill of Tail) Oft Stage #2 (2450ft of fill of Lead & 500 ft of fill of Tail) Stage #3 (4000ft of fill of Lead & 500 ft of fill of Tail) | | | | | | | | |
| Production: 15033ft | 785 | 0ft (2156ft of fill of Lead & 5027ft of fill of Tail) | | | | | | | | |

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

S.LP (DA



Devon

Eddy County, NM (NAD 83) Sec 25 T. 23S., R.31E. API#

Aldabra 25 FED #2H (200' FSL & 685' FWL) Wellbore #1

Plan: Plan#2 100913 RevA1

Sperry Drilling Services Combo Report

16 October, 2013

Well Coordinates:

32° 16' 07.41" N 103° 44' 16.18" W North American Datum 1983 New Mexico Eastern Zone 462,005.94 N 725,397.94 E

Centered on Well Aldabra 25 FED #2H

WELL @ 3509.70ft (HP 223 25'KB)

Ground Level: 3,484.70 ft

Local Coordinate Origin: Viewing Datum: TVDs to System: **North Reference:** Unit System:

Version: 5000.1 Build: 65

Report Version: Midcon Combo v1.30

HALLIBURTON

N

Grid

API US Survey Feet

Job#

HP 223 25'KB

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Devon

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Plan Report for Aldabra 25 FED #2H - Plan#2 100913 RevA1

| Measured | | Grid | TVD below | Vertical | Local Coo | rdinates | Map Coord | dinates | Dogleg | Vertical | | |
|----------|-------------|---------|-----------|----------|-----------|----------|------------|------------|-------------|----------|----------|---|
| Depth | Inclination | Azimuth | System | Depth | Northing | Easting | Northing | Easting | Rate | Section | Comments | |
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (usft) | (usft) | (°/100usft) | (ft) | | |
| 0.00 | 0.00 | 0.00 | -3,509,70 | 0.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 100.00 | 0.00 | 0.00 | -3,409,70 | 100.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397,94 | 0.00 | 0.00 | | |
| 200.00 | 0:00 | 0.00 | -3,309.70 | 200.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 300.00 | 0.00 | 0.00 | -3,209,70 | 300.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 400.00 | 0.00 | 0.00 | -3,109.70 | 400.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 500.00 | 0.00 | 0.00 | -3.009.70 | 500.00 | 0.00 N | 0.00 E | 462 005 94 | 725 397 94 | 0.00 | 0.00 | | |
| 600.00 | 0.00 | 0.00 | -2.909.70 | 600.00 | 0.00 N | 0.00 E | 462.005.94 | 725.397.94 | 0.00 | 0.00 | | |
| 700.00 | 0.00 | 0.00 | -2.809.70 | 700.00 | 0.00 N | 0.00 E | 462.005.94 | 725,397,94 | 0.00 | 0.00 | | |
| 800.00 | 0.00 | 0.00 | -2.709.70 | 800.00 | 0.00 N | 0.00 E | 462.005.94 | 725.397.94 | 0.00 | 0.00 | | |
| 900.00 | 0.00 | 0.00 | -2,609.70 | 900.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 1.000.00 | 0.00 | 0.00 | -2.509.70 | 1 000.00 | 0.00 N | 0.00 E | 462,005,94 | 725 397.94 | 0.00 | 0.00 | | |
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| 1.300.00 | 0.00 | 0.00 | -2.209.70 | 1.300.00 | 0.00 N | 0.00 E | 462.005.94 | 725,397,94 | 0.00 | 0.00 | | |
| 1,400.00 | 0.00 | 0.00 | -2,109.70 | 1,400.00 | 0.00 N | 0.00 E | 462,005,94 | 725.397.94 | 0.00 | 0.00 | | |
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| 1,500.00 | 0.00 | 0.00 | -2,009.70 | 1,500.00 | 0.00 N | 0.00 E | 402,005.94 | 725,397.94 | 0.00 | 0.00 | | 1 |
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| 1,000.00 | 0.00 | 0.00 | -1 609 70 | 1 900 00 | 0.00 N | 0.00 E | 462,005,94 | 725 307 94 | 0.00 | 0.00 | | |
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| 2,000.00 | 0.00 | 0.00 | -1,509.70 | 2,000.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
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| 2,500.00 | 0.00 | 0.00 | -1,009.70 | 2,500.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 2,600.00 | 0.00 | 0.00 | -909.70 | 2,600.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 2,700.00 | 0.00 | 0.00 | -809.70 | 2,700.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 2,800.00 | 0.00 | 0.00 | -709.70 | 2,800.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 2,900.00 | 0.00 | 0.00 | -609.70 | 2,900.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 3,000.00 | 0.00 | 0.00 | -509.70 | 3,000.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | : |
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| 3,300.00 | 0.00 | 0.00 | -209.70 | 3,300.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 3,400.00 | 0.00 | 0.00 | -109.70 | 3,400.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 3,500.00 | 0.00 | 0.00 | -9.70 | 3,500.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 3,600.00 | 0.00 | 0.00 | 90.30 | 3,600.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0,00 | 0.00 | | |
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| 3,800.00 | 0.00 | 0.00 | 290.30 | 3,800.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 3,900.00 | 0.00 | 0.00 | 390.30 | 3,900.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |
| 4,000.00 | 0.00 | 0.00 | 490.30 | 4,000.00 | 0.00 N | 0.00 E | 462,005.94 | 725,397.94 | 0.00 | 0.00 | | |

16 October, 2013 - 10:16

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COMPASS

Eddy County, NM (NAD 83)

Devon

Plan Report for Aldabra 25 FED #2H - Plan#2 100913 RevA1

| Depth Inclination Azimuth System Depth Northing Easting Northing Easting Rate Section Comments | |
|--|-----------------------|
| (ff) (°) (°) (ff) (ff) (ff) (ff) (ff) (f | |
| | |
| 4,100,00 0.00 0.00 590.30 4,100.00 0.00 N 0.00 E 462,005.94 725,397.94 0.00 0.00 | |
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| 4,400.00 0.00 0.00 890.30 4,400.00 0.00 N 0.00 E 462,005.94 725,397.94 0.00 0.00 | |
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| 4,800.00 0.00 0.00 1,290.30 4,800.00 0.00 N 0.00 E 462,005.94 725,397.94 0.00 0.00 | |
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| 5,300,00 0.00 0.00 1,790,30 5,300,00 0.00 N 0.00 E 402,003,94 725,397,94 0.00 0.00 5 5 400,00 5 400,00 C 0.00 5 | |
| | |
| 5,500,00 0.00 0.00 1,550,50 5,500,00 0.00 N 0.00 E 462,005,94 725,397,94 0.00 0.00 3 | |
| 5,700,00 0,00 0,00 2,190,30 5,700,00 0,00 N 0,00 E 462,005,94 725,397,94 0,00 0,00 | |
| 5,736.67 0.00 0.00 2,226.97 5,736.67 0.00 N 0.00 E 462,005.94 725,397.94 0.00 0.00 Start Build 100 3 3 4 4 5 5 | |
| 5,800.00 0.63 90.00 2,290.30 5,800.00 0.00 S 0.35 E 462,005.94 725,398.29 1.00 0.02 | |
| 5,900.00 1.63 90.00 2,390.28 5,899.98 0.00 S 2.33 E 462,005.94 725,400.27 1.00 0.14 | |
| 6,000.00 2.63 90.00 2,490.21 5,999.91 0.00 S 6.05 E 462,005.94 725,403.99 1.00 0.37 | |
| 6,100,00 3.63 90,00 2,590,06 6,099,76 0.00 S 11.52 E 462,005.94 725,409,46 1.00 0.70 | |
| 6,200,00 4,63 90,00 2,689,80 6,199,50 0,00 S 18,72 E 462,005,94 725,416,66 1,00 1,14 | 67 MD |
| 0,230,07 5,00 90,00 2,720,34 6,230,04 0,00 S 21,00 E 402,003,94 725,419,74 1,00 1,33[[3tai153][20,004000.al.0230] | OAND FISTER AND PARTY |
| 6,300,00 5,00 90,00 2,789,42 6,299,12 0,00 S 27,32 E 462,005,94 725,425,26 0,00 1,66 | |
| 6,500,00 5,00 90,00 2,669,04 0,356,74 0,00 S 30,04 E 402,003,54 7,25,433,56 0,00 2,20 | |
| 6.600.00 5.00 90.00 3.088.28 6.597.98 0.00 \$ 53.47 E 462.005.94 725.451.41 0.00 3.26 | |
| 6,700.00 5.00 90.00 3,187.90 6,697.60 0.00 S 62.18 E 462,005.94 725,460.12 0.00 3.79 | |
| 6,800.00 5.00 90.00 3,287.52 6,797.22 0.00 S 70.90 E 462,005.94 725,468.84 0.00 4.32 | |
| 6,900.00 5.00 90.00 3,387.14 6,896.84 0.00 S 79.62 E 462,005.94 725,477.56 0.00 4.85 | |
| 7,000.00 5.00 90.00 3,486.76 6,996.46 0.00 S 88.33 E 462,005.94 725,486.27 0.00 5.38 | |
| 7,100.00 5.00 90.00 3,586.38 7,096.08 0.00 S 97.05 E 462,005.94 725,494.99 0.00 5.91 | |
| 7,200.00 5.00 90.00 3,686.00 7,195.70 0.00 S 105.76 E 462,005.94 725,503.70 0.00 6.44 | |
| 7,300.00 5.00 90.00 3,785.62 7,295.32 0.00 S 114.48 E 462,005.94 725,512.42 0.00 6.97 | |
| 7,400,00 5,00 90,00 3,885,24 7,394,94 0,00 S 123,19 E 462,005,94 725,521,13 0,00 7,50 7,50 7,50 9,50 9,50 9,50 9,50 9,50 9,50 9,50 9 | |
| 7,500,00 5,00 90,00 5,804,00 7,434,50 0,00 5 131,51 ⊑ 402,003,54 7,25,528,56 0,00 6,05 | |
| 7,700.00 5.00 90.00 4,184,10 7,693.80 0.00 S 149.34 E 462,005.94 725,547.28 0.00 9.10 | |
| 7.800.00 5.00 90.00 4.283.72 7.793.42 0.00 S 158.06 E 462.005.94 725.556.00 0.00 9.63 | |
| 7,900.00 5.00 90.00 4,383.34 7,893.04 0.00 S 166.77 E 462,005.94 725,564.71 0.00 10.16 | |

16 October, 2013 - 10:16

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COMPASS

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Devon Eddy County, NM (NAD 83)

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Plan Report for Aldabra 25 FED #2H - Plan#2 100913 RevA1

| Measured Grid TVD below Vertical Local Coordinates Map Coordinates Map Coordinates Parte Diriging Vertical DBrbt Inclination Allmond System Optical Rate Station Comments (h) (') (') (h) (h) (h) Northing Easting Northi | | | | | | | · • | | | | | | |
|---|-----------|-------------------|------------------|----------------------|-----------|----------------------|----------------------|--------------------------|--------------------|-------------|----------|---------------|--|
| Che Lin Institution Calling Calling Calling Calling Calling Calling Calling Continents 10 (°) Ch (b) (b) (b) (b) (c) (c) <th>Measured</th> <th>lu alimatian</th> <th>Grid</th> <th>TVD below</th> <th>Vertical</th> <th>Local Coo</th> <th>rdinates</th> <th>Map Coord</th> <th>linates Easting</th> <th>Dogleg</th> <th>Vertical</th> <th>0</th> <th></th> | Measured | lu alimatian | Grid | TVD below | Vertical | Local Coo | rdinates | Map Coord | linates Easting | Dogleg | Vertical | 0 | |
| 5.000.00 5.00 9.00.00 4.82.95 7.982.66 0.00.5 172.472.4 482.005.94 725.573.43 0.00 11.05 8.100.00 5.00 90.00 4.82.219 8.191.40 0.00.5 184.20 462.005.94 725.582.41 0.00 11.175 8.200.00 5.00 90.00 4.81.21 8.191.40 0.00.5 121.63.12 462.005.94 725.593.87 0.00 11.22 8.400.00 5.00 90.00 4.81.43 3.381.13 0.00.5 210.38.12 462.005.94 725.691.87 0.00 13.34 8.600.00 5.00 90.00 5.809.97 0.00.5 236.502 462.005.94 725.651.40 0.00 14.41 8.600.00 5.00 90.00 5.778.17 8.889.23 0.00.5 273.68 462.005.94 725.661.47 0.00 15.47 9.000.00 5.778.17 8.889.23 0.00.5 273.78 462.005.94 725.661.73 0.00 15.01 9.000.00 5.778.77 | (ft) | (°) | (°) | (ft) | (ft) | Northing (ft) | Easting (ft) | Northing (usft) | Lasting (usft) | (°/100usft) | (ft) | Comments | |
| 8,100.00 5.00 90.00 4,82.58 8,00.05 18,2.02 462,005.44 725,590.86 0.00 11.22 8,300.00 5.00 90.00 4,81.13 8,291.10 0.05 12,26 462,005.44 725,590.86 0.00 12,28 8,300.00 5.00 90.00 4,81.13 8,291.15 0.005 210.05 442,005.44 725,590.86 0.00 13,34 8,500.00 5.00 90.00 4,881.05 8,490.75 0.005 227,526 462,005.34 725,690.25 0.00 13,34 8,500.00 5.00 90.00 5,776.18 8,789.01 0.005 225,925 462,005.34 725,691.87 0.00 14,41 8,800.00 5.00 90.00 5,776.18 8,789.61 0.005 226,726 0.00 16,50 9,000.00 5,776.19 9,789.47 9,005 227,385 462,005.34 725,695.38 0.00 16,00 9,000.00 5,776.19 9,287.11 0.005 287,385 462,005.34 726,691.67 0.00 17,48 Satiaborgi 100.2 33,336.77 <td>8,000.00</td> <td>5.00</td> <td>90.00</td> <td>4,482.96</td> <td>7,992.66</td> <td>0.00 S</td> <td>175.49 E</td> <td>462,005,94</td> <td>725,573.43</td> <td>0.00</td> <td>10.69</td> <td></td> <td></td> | 8,000.00 | 5.00 | 90.00 | 4,482.96 | 7,992.66 | 0.00 S | 175.49 E | 462,005,94 | 725,573.43 | 0.00 | 10.69 | | |
| 8,200.00 5.00 90.00 4,821.19 8,191.80 0.00 17.5 8,300.00 5.00 90.00 4,811.3 8,291.51 0.00 725,599.57 0.00 12.81 8,400.00 5.00 90.00 4,811.3 8,301.10 0.05 210.35 E 462,005.94 725,599.57 0.00 12.81 8,600.00 5.00 90.00 5,869.37 0.00 22.77 E 462,005.94 725,673.44 0.00 14.41 8,800.00 5.00 90.00 5,787.91 8,789.91 0.00 S 223,526 422,005.94 725,669.31 0.00 14.44 8,800.00 5.00 90.00 5,778.73 8,789.84 0.00 S 223,526 422,005.94 725,669.30 0.00 16.63 9,000.00 5.00 90.00 5,778.39 9,188.49 0.00 S 223,726 422,005.44 725,669.30 0.00 17,769 9,000.00 5.00 90.00 5,778.39 9,188.49 0.00 S 223,726 422,005.44 725,669.30 0.00 17,769 9,000.00 5,776.4 | 8,100.00 | 5.00 | 90.00 | 4,582.58 | 8,092.28 | 0.00 S | 184.20 E | 462,005.94 | 725,582.14 | 0.00 | 11.22 | | |
| 3.300.00 5.00 90.00 4,781,81 8,291,51 0.005 210,63 E 462,005,44 725,680,29 0.00 12,281 8,500,00 5.00 90.00 4,881,45 8,591,75 0.005 219,06 E 462,005,94 725,680,29 0.000 12,81 8,500,00 5.00 90.00 5,500,87 0.005 227,784 462,005,94 725,692,87 0.000 13,34 8,700,00 5.00 90.00 5,510,279 8,689,39 0.005 225,505 462,005,94 725,663,15 0.00 14,44 8,800,00 5.00 90.00 5,778,77 9,884,77 0.005 227,136 462,005,94 725,663,15 0.00 16,60 9,100,00 5.00 90.00 5,778,77 9,884,77 0.005 227,378 422,005,44 725,663,13 0.00 17,66 9,300,00 5.00 90.00 5,778,07 9,884,77 0.005 228,798 422,005,44 725,661,87 0.00 17,76 9,306,07 5.00 90.00 5,778,01 9,374,16 0.005 237,34 | 8,200.00 | 5.00 | 90.00 | 4,682.19 | 8,191.89 | 0.00 S | 192,92 E | 462,005.94 | 725,590.86 | 0.00 | 11.75 | | |
| 8.400.00 5.00 90.00 4.881.43 6.381.13 0.00 210.35 E 462.005.94 725.681.29 0.00 12.81 8.600.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.01 90.00 5.01 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.02 90.00 5.07 90.88 90.00 5.02 90.00 5.78.39 8.885 0.00 226.04 422.005.44 725.660.38 0.00 16.00 9.39.00 5.678.39 9.8847.0 0.00 280.07 422.005.44 725.660.38 0.00 17.65 9.33.44 9.387.44 0.00 290.72 422.005.44 725.667.37 0.00 17.76 9.356.67 0.00 5.77.87 9.368.46 0.005 397.44 242.005.44 | 8,300.00 | 5.00 | 90.00 | 4,781.81 | 8,291.51 | 0.00 S | 201.63 E | 462,005.94 | 725,599.57 | 0.00 | 12.28 | | |
| 5.000.00 5.00 90.00 4.981.05 8.490.75 0.000 219.06 E 462.005.94 725.627.72 0.00 13.34 8.000.00 5.00 90.00 5.008.99 0.005 226.65 E 462.005.94 725.627.72 0.00 14.41 8.000.00 5.00 90.00 5.278.93 8.989.83 0.005 225.42 462.005.94 725.643.15 0.00 14.41 8.000.00 5.00 90.00 5.378.53 8.989.83 0.005 225.42 462.005.94 725.643.15 0.00 15.47 9.000.00 5.00 90.00 5.578.77 9.988.47 0.005 220.544 725.666.33 0.00 16.53 9.200.00 5.00 90.00 5.578.77 9.988.77 462.005.94 725.668.73 0.00 17.59 9.356.67 90.00 5.577.59 9.877.44 0.005 309.724 462.005.94 725.668.73 0.00 17.59 9.356.67 90.00 5.577.59 9.357.44 0.005 309.726 462.005.94 725.703.77 1.00 18.57 < | 8,400.00 | 5.00 | 90.00 | 4,881.43 | 8,391.13 | 0.00 S | 210.35 E | 462,005.94 | 725,608.29 | 0.00 | 12.81 | | <u>}</u> |
| 0.00000 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.00 90.00 5.70 90.88 8.892.30 0.00 5.47 7.25.634.41 0.00 14.94 9.000.00 5.00 90.00 5.778.01 9.088.5 0.005 225.661.80 0.00 16.00 9.000.00 5.00 90.00 5.778.01 9.287.71 0.005 280.07E 462.005.94 725.661.30 0.00 17.66 9.300.00 5.00 90.00 5.6778.01 9.287.71 0.005 288.79E 462.005.94 725.667.30 0.00 17.69 Statt 070.01 17.71 9.868 | 8,500.00 | 5.00 | 90.00 | 4,981.05 | 8,490.75 | 0.00 S | 219.06 E | 462,005.94 | 725,617.00 | 0.00 | 13.34 | | · · |
| 8,800.00 5.00 90.00 5,278.91 8,789.61 0.00 245.21 462,005.94 725,643.15 0.00 14.94 8,800.00 5.00 90.00 5,779.53 8,889.23 0.00 225,242.1 462,005.94 725,661.87 0.00 16.00 9,100.00 5.00 90.00 5,777.7 9,088.47 0.00 225,242.4 482,005.94 725,669.30 0.00 16.63 9,200.00 5.00 90.00 5,778.77 9,088.47 0.005 220.005.94 725,669.30 0.00 17.69 9,300.00 5.00 90.00 5,877.47 9,088.47 0.005 228.78 462,005.94 725,669.30 0.00 17.69 9,356.67 5.00 90.00 5,877.46 9,387.34 0.005 297.34 462,005.94 725,696.28 1.00 18.14 9,460.00 4.57 90.00 5,077.49 9,886.84 0.005 313.39 462,005.94 725,707.22 1.00 18.64 9,600.00 2.57 90.00 6,177.16 9,868.86 0.005 315.532 46 | 8,000.00 | 5.00 | 90.00 | 5,080.07 | 8,590.37 | 0.00 5 | 227.70 E | 462,005.94 | 725,623.72 | 0.00 | 14.41 | | |
| 8 900 00 5.00 9.00 5.75 53 8.889 23 0.00 5 253 38 2 462,005 54 725,661 87 0.00 15.47 9,000,00 5.00 90.00 5.479 315 8.988 25 0.00 5 253 38 2 462,005 54 725,660,58 0.00 16.00 9,000,00 5.00 90.00 5.678,39 9.180,09 0.00 5 271.36 E 462,005,54 725,668,30 0.00 17.06 9,200,00 5.00 90.00 5.678,39 9.184,09 0.00 5 282.79 E 462,005,54 725,668,73 0.00 17.76 9,330,00 5.00 90.00 5.834,46 9.344,16 0.00 5 297.34 E 462,005,54 725,667,20 0.00 18.17 9,400,00 3.57 90.00 6.077,24 9.586,67 0.00 5 313.39 E 462,005,94 725,713.31 1.00 18.54 9,600,00 3.57 90.00 6.277.18 9.766,68 0.00 S 315,53 E 462,005,94 725,713.47 1.00 18.54 9,600,00 0.00 6.377.16 9.866,86 0.00 S 315,5 | 8 800 00 | 5.00 | 90.00 | 5 279 91 | 8 789 61 | 0.00 S | 245 21 E | 462 005 94 | 725 643 15 | 0.00 | 14 94 | | |
| 900000 5.00 90.00 5.479.15 8.988.85 0.00 S<222.4E | 8,900.00 | 5.00 | 90.00 | 5.379.53 | 8.889.23 | 0.00 S | 253.93 E | 462,005.94 | 725,651,87 | 0.00 | 15.47 | | |
| 9,100.00 5.00 90.00 5.67.77 9,088.47 0.00 S 271.36 E 462,005.94 725,668.73 0.00 17.65 9,300.00 5.00 90.00 5.778.01 9,287.71 0.00 S 288.79 E 462,005.94 725,668.73 0.00 17.69 Start Drop 1.00 9,306.00 4.57 90.00 5.87.74 9,384.16 0.00 S 297.34 E 462,005.94 725,668.73 0.00 17.69 Start Drop 1.00 5.87.74 9,400.00 4.57 90.00 5.877.72 9,487.09 0.00 S 304.43 E 462,005.94 725,707.72 1.00 18.54 9,500.00 3.57 90.00 6.177.18 9,686.88 0.00 S 313.39 E 462,005.94 725,713.19 1.00 19.20 9,600.00 0.57 90.00 6.277.16 9,766.86 0.00 S 315.53 E 462,005.94 725,713.47 1.00 19.22 9,600.00 0.00 6.33.83 9,445.33 0.00 S 315.53 E 462,005.94 725,713.47 1.00 19.22 10,000.00 0.00 6.377.16 <td>9,000.00</td> <td>5.00</td> <td>90.00</td> <td>5,479.15</td> <td>8,988.85</td> <td>0.00 S</td> <td>262.64 E</td> <td>462,005.94</td> <td>725,660.58</td> <td>0.00</td> <td>16.00</td> <td></td> <td></td> | 9,000.00 | 5.00 | 90.00 | 5,479.15 | 8,988.85 | 0.00 S | 262.64 E | 462,005.94 | 725,660.58 | 0.00 | 16.00 | | |
| 9.00.00 5.00 90.00 5,678.39 9,188.09 0.00 S 280.07 E 462.005.94 725,678.31 0.00 17.66 9,300.00 5.00 90.00 5,874.49 9,287.71 0.00 S 280.79 E 462.005.94 725,686.73 0.00 17.69 9,400.00 4.57 90.00 5,874.44 9,347.44 0.00 S 297.74 E 462.005.94 725,685.73 0.00 18.11 9,400.00 4.57 90.00 5,877.49 9,374 0 0.00 S 304.45 E 462.005.94 725,702.37 1.00 18.54 9,600.00 2.57 90.00 6,177.18 9,686.86 0.00 S 313.39 E 462.005.94 725,713.31 1.00 19.20 9,800.00 0.57 90.00 6,177.16 9,686.86 0.00 S 315.55 E 462.005.94 725,713.47 1.00 19.22 Start# 50,000 hold at 9856 67 AMD 365.55 E 462.005.94 725,713.47 1.00 19.22 Start# 50,000 hold at 9856 67 AMD 365.55 E 462.005.94 725,713.47 1.00 19.22 Start# 50,000 hold at 9856 67 AMD 365.55 E 462.0 | 9,100.00 | 5.00 | 90.00 | 5,578.77 | 9,088.47 | 0.00 S | 271.36 E | 462,005.94 | 725,669.30 | 0.00 | 16.53 | | |
| 9.300.00 5.00 9.00 5.778.01 9.282.71 0.00 228.878 462.005.94 725.686.73 0.00 17.89 9.366.67 5.00 90.00 5.877.64 9.387.34 0.00 293.74 462.005.94 725.695.28 1.00 18.11 9.500.00 3.57 90.00 5.877.64 9.386.47 0.00 S 309.44 2 462.005.94 725.695.28 1.00 18.11 9.500.00 3.57 90.00 6.177.18 9.686.48 0.00 S 309.78 462.005.94 725.707.27 1.00 18.87 9.700.00 1.57 90.00 6.177.16 9.686.48 0.00 S 315.35 462.005.94 725.713.17 1.00 19.20 9.806.07 0.00 6.333.83 9.43.53 0.00 S 315.53 462.005.94 725.713.47 0.00 19.22 Starts 500.00 19.22 0.000 0.00 6.433.83 9.993.53 0.00 S 315.53 462.005.94 725.713.47 0.00 19.22 Starts 500.00 57.4 0.000.00 0.00 6.476.19 10.868.66 <td>9,200.00</td> <td>5.00</td> <td>90.00</td> <td>5,678.39</td> <td>9,188.09</td> <td>0.00 S</td> <td>280.07 E</td> <td>462,005.94</td> <td>725,678.01</td> <td>0.00</td> <td>17.06</td> <td>+</td> <td>-</td> | 9,200.00 | 5.00 | 90.00 | 5,678.39 | 9,188.09 | 0.00 S | 280.07 E | 462,005.94 | 725,678.01 | 0.00 | 17.06 | + | - |
| 9.356.67 5.00 90.00 5.834.46 9.344.16 0.00 S 233.73 462.005.94 725.691.67 0.00 17.89 Start D000 277.34 0.00 5.977.39 9.447.09 0.00 S 297.33 462.005.94 725.695.24 1.00 18.11 9,600.00 2.57 90.00 6.777.24 9,586.49 0.00 S 309.78 462.005.94 725.707.27 1.00 18.87 9,700.00 1.57 90.00 6.777.18 9,586.68 0.00 S 313.39 462.005.94 725.713.31 1.00 19.20 9,856.67 0.00 0.00 6.377.16 9,866.86 0.00 S 315.53 462.005.94 725.713.47 1.00 19.22 10,000.0 0.00 6.477.16 9,866.86 0.00 S 315.53 462.005.94 725.713.47 0.00 19.22 Start B0.000/bid at 9856.67.07.00 10.06.27 9.00 | 9,300.00 | 5.00 | 90.00 | 5,778.01 | 9,287.71 | 0.00 S | 288.79 E | 462,005.94 | 725,686.73 | 0.00 | 17.59 | | |
| 9.400.00 4.57 90.00 5.877.64 9.387.34 0.00 S 297.34 2462.005.94 725.695.28 1.00 18.11 9.500.00 2.57 90.00 6.777.39 9.487.09 0.00 S 309.78 462.005.94 725.707.27 1.00 18.87 9.700.00 1.57 90.00 6.777.49 9.866.88 0.00 S 313.33 E 462.005.94 725.713.31 1.00 19.09 9.800.00 0.05 79.00 6.777.16 9.866.86 0.00 S 315.52 E 462.005.94 725.713.47 1.00 19.22 Start 50.00/hold at 99856.67 MD1 9.800.00 0.00 6.477.16 9.986.86 0.00 S 315.53 E 462.005.94 725.713.47 0.00 19.22 Start 50.00/hold at 99856.67 MD1 9.960.00 19.22 10.006.67 0.00 6.477.16 9.986.86 0.00 S 315.53 462.005.94 725.713.47 0.00 19.22 10.101.20 359.69 6.671.92 10.181.62 38.61 N 315.33 462.045.50 725.713.47 0.00 19.22 10.20 25.99 6.754.57 <td>9,356.67</td> <td>5.00</td> <td>90.00</td> <td>5,834.46</td> <td>9,344.16</td> <td>0.00 S</td> <td>293.73 E</td> <td>462,005.94</td> <td>725,691.67</td> <td>0.00</td> <td>17.89</td> <td>Start Dropis</td> <td>1.00</td> | 9,356.67 | 5.00 | 90.00 | 5,834.46 | 9,344.16 | 0.00 S | 293.73 E | 462,005.94 | 725,691.67 | 0.00 | 17.89 | Start Dropis | 1.00 |
| 9.500.00 2.57 90.00 5.977.39 9.407.19 0.00 5 304.43 E 462.005.94 725,707.22 1.00 18.54 9.600.00 2.57 90.00 6.077.24 9.566.94 0.00 5 309.78 E 462.005.94 725,707.22 1.00 18.67 9,700.00 1.57 90.00 6.177.18 9.686.68 0.00 S 315.25 E 462.005.94 725,713.47 1.00 19.20 9,806.67 0.00 6.333.83 9.483.53 0.00 S 315.53 E 462.005.94 725,713.47 0.00 19.22 10,000.00 0.00 6.477.16 9.886.86 0.00 S 315.53 E 462.005.94 725,713.47 0.00 19.22 10,000.00 0.00 6.477.16 9.886.86 0.00 S 315.53 E 462.005.94 725,713.47 0.00 19.22 10,000.00 1120 359.69 6.576.57 10.086.27 9.08 N 315.35 E 462.015.03 725,713.47 1.00 12.00 165.33 10,000.00 35.20 359.69 6.578.05 10.287.58 318.36 I 82.0445.59 <td>9,400.00</td> <td>4.57</td> <td>90.00</td> <td>5,877.64</td> <td>9,387.34</td> <td>0.00 S</td> <td>297.34 E</td> <td>462,005.94</td> <td>725,695.28</td> <td>1.00</td> <td>18.11</td> <td></td> <td></td> | 9,400.00 | 4.57 | 90.00 | 5,877.64 | 9,387.34 | 0.00 S | 297.34 E | 462,005.94 | 725,695.28 | 1.00 | 18.11 | | |
| 9,700.00 1.57 90.00 6,771.8 9,686.8 0.00 S 315.35 462,005.94 725,711.33 1.00 19.09 9,800.00 0.57 90.00 6,277.16 9,786.86 0.00 S 315.35 462,005.94 725,713.37 1.00 19.20 9,856.67 0.00 0.00 6,333.83 9,843.53 0.00 S 315.53 462,005.94 725,713.47 1.00 19.22 Startis 50;00/hold at 9856.67,MD): 45.10 9,900.00 0.00 6,477.16 9,868.66 0.00 S 315.53 462,005.94 725,713.47 0.00 19.22 10,006.67 0.00 6,477.16 9,868.66 0.00 S 315.53 462,005.94 725,713.47 0.00 19.22 10,006.67 0.00 6,671.82 10,181.62 38.61 N 315.35 462,005.94 725,713.47 1.00 19.22 Start Build J2;00 57.4 10,000.01 12.02 356.69 6,671.92 10,181.62 38.61 N 315.35 462,032.47 725,713.42 12.00 77.4 10,300.00 352.03 359.69 6,873.45 <td>9,300,00</td> <td>3.57</td> <td>90.00</td> <td>5,977.39</td> <td>9,487.09</td> <td>0.00 5</td> <td>304.43 E</td> <td>402,005.94</td> <td>725,702.37</td> <td>1.00</td> <td>18.54</td> <td></td> <td></td> | 9,300,00 | 3.57 | 90.00 | 5,977.39 | 9,487.09 | 0.00 5 | 304.43 E | 402,005.94 | 725,702.37 | 1.00 | 18.54 | | |
| 9,800.00 0.57 90.00 6,177.16 9,766.86 0.00 \$ 313.39 4 462,005.94 725,713.19 1.00 19.20 9,866.67 0.00 0.00 6,373.16 9,866.86 0.00 \$ 315.25 E 462,005.94 725,713.47 1.00 19.22 10,000.0 0.00 0.00 6,377.16 9,866.86 0.00 \$ 315.53 E 462,005.94 725,713.47 1.00 19.22 10,000.0 0.00 0.00 6,477.16 9,866.86 0.00 \$ 315.53 E 462,005.94 725,713.47 0.00 19.22 10,000.667 0.00 0.00 6,477.16 9,866.86 0.00 \$ 315.53 E 462,005.94 725,713.47 0.00 19.22 10,000.0 1.20 359.69 6,576.57 10,086.27 9.09 N 315.48 462,005.94 725,713.47 0.00 19.22 10,200.00 23.20 359.69 6,671.92 10,181.62 38.61 N 315.33 E 462,045.94 725,713.42 12.00 28.29 10,200.00 35.20 359.69 6,671.92 10,181.62 38.61 N 315.34 E 462,044.55 725,713.42 12.00 28.29 10,000.0 47.20 359.69 6,671.92 10,181.62 32.97 N 315.06 462,093.24 725,713.42 12.00 28.29 10,500.00 59.20 359.69 6,683.95 10,286.75 87.30 N 315.06 462,093.24 725,713.65 12.00 171.93 10,500.00 71.20 359.69 6,683.95 10,486.75 232.97 N 314.71 E 462,238.91 725,712.65 12.00 171.93 10,500.00 71.20 359.69 6,961.30 10,471.00 520.79 N 312.78 462,232.92 725,711.74 12.00 342.10 10,760.67 90.00 359.69 6,961.30 10,471.00 520.79 N 312.78 462,262.67 725,710.59 12.00 439.22 10,766.7 90.00 359.69 6,961.30 10,471.00 520.79 N 312.75 462,526.72 725,710.59 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 520.79 N 312.75 E 462,262.72 725,710.69 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.48 E 462,262.72 725,710.69 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.48 E 462,262.72 725,709.68 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.48 E 462,262.72 725,709.80 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.48 E 462,262.72 725,709.68 0.00 538.87 11,900.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.48 E 462,262.72 725,709.80 0.00 338.45 11,100.00 90.00 359.69 6,961.30 10,471.00 120.78 N 309.64 E 463,262.72 725,709.80 0.00 1337.47 11,400.00 90.00 359.69 6,961.30 10,471.00 120.78 N 309.64 E 463,262.72 725,709.64 0.00 1,137.55 11,500.00 | 9,000.00 | 2.57 | 90.00 | 0,077.24 | 9,000.94 | 0.00 3 | 309.70 E | 402,005.94 | 725,707.72 | 1.00 | 10.07 | | • |
| 0.300.00 0.00 0.00 0.338.83 0.008.5 0.15.53 E 462.005.94 725,713.47 1.00 19.22 Starts 50.00 50.00 50.00 315.53 E 462.005.94 725,713.47 0.00 19.22 Starts 50.00 50.00 50.00 315.53 E 462.005.94 725,713.47 0.00 19.22 Starts 50.00 50.00 50.00 315.53 E 462.005.94 725,713.47 0.00 19.22 Starts 50.00 50.00 50.00 315.53 E 462.005.94 725,713.47 0.00 19.22 Starts 50.00 50 | 9,700.00 | 1.57 | 90.00 | 6 277 16 | 9,000.00 | 0.00 5 | 315.39 E | 402,005.94 | 725,711.33 | 1.00 | 19.09 | | , |
| 9,900.00 0.00 6,377.16 9,886.86 0.00 S 315.53 E 462,005.94 725,713.47 0.00 19.22 10,000.667 0.00 6,487.16 9,986.86 0.00 S 315.53 E 462,005.94 725,713.47 0.00 19.22 10,006.67 0.00 0.00 6,483.83 9,993.53 0.00 S 315.53 E 462,005.94 725,713.47 0.00 19.22 10,000.667 0.00 0.00 6,483.83 9,993.53 0.00 S 315.53 E 462,005.94 725,713.47 0.00 19.22 10,100.00 11.20 359.69 6,571.92 10,181.62 38.61 N 315.33 E 462,044.55 725,713.42 12.00 251.69 10,200.00 35.20 359.69 6,834.16 10,343.66 153.05 N 314.71 E 462,158.99 725,712.23 12.00 106.33 10,400.00 71.20 359.69 6,834.51 10,445.52 323.58 N 313.80 E 462,238.91 725,712.23 12.00 251.69 10,600.00 71.20 359.69 6,961.30 10,471.00 477.46 N | 9.856.67 | 0.00 | 0.00 | 6.333.83 | 9.843.53 | 0.00 S | 315.53 E | 462,005,94 | 725 713 47 | 1.00 | 19.22 | Start 150:00 | hold at 9856 67 MD |
| 10,000,00 0.00 6,477.16 9,986.86 0.00 S 315.53 E 462,005.94 725,713.47 0.00 19.22 10,000,67 0.00 6,483.83 9,993.53 0.00 S 315.53 E 462,005.94 725,713.47 0.00 19.22 Start Build;12:00, 10,100.00 11.20 359.69 6,576.57 10,086.27 9.09 N 315.48 E 462,015.03 725,713.42 12.00 28.29 10,200.00 23.20 359.69 6,671.90 10,181.62 38.61 N 315.35 E 462,045.57 75.713.26 12.00 16.33 10,400.00 47.20 359.69 6,834.16 10,343.86 153.05 N 314.71 E 462,158.99 725,712.23 12.00 171.93 10,600.00 71.20 359.69 6,839.95 10,403.65 232.97 N 313.80 E 462,238.91 725,711.23 12.00 342.10 10,600.00 71.20 359.69 6,957.94 10,467.64 420.92 N 313.28 E 462,248.66 725,711.22 12.00 439.22 10,756.67 90.00 359.69 6,961.30 | 9,900.00 | 0.00 | 0.00 | 6,377.16 | 9,886.86 | 0.00 S | 315.53 E | 462,005.94 | 725,713.47 | 0.00 | 19.22 | | and a second |
| 10,006.67 0.00 6,483.83 9,993.53 0.00 S 315.53 E 462,005.94 725,713.47 0.00 19.22 [Start Build 12:00, 4.2.0] 10,100.00 11.20 359.69 6,576.57 10,086.27 9.09 N 315.48 E 462,015.03 725,713.42 12.00 28.29 10,200.00 23.20 359.69 6,759.05 10,268.75 87.30 N 315.06 E 462,043.55 725,713.26 12.00 106.33 10,400.00 47.20 359.69 6,834.16 10,343.86 153.05 N 314.71 E 462,158.99 725,712.23 12.00 171.93 10,500.00 75.20 359.69 6,893.95 10,407.64 420.92 N 313.28 E 462,238.91 725,711.22 12.00 251.69 10,500.00 75.26 6,957.94 10,467.64 420.92 N 313.28 E 462,226.52 725,711.22 12.00 439.22 10,700.00 83.20 359.69 6,951.30 10.471.00 520.78 N 312.98 E 462,262.67 Z 725,710.92 12.00 439.22 10,800.00 90.00 359.69 6,961.30 | 10,000.00 | 0.00 | 0.00 | 6,477.16 | 9,986.86 | 0.00 S | 315.53 E | 462,005.94 | 725,713.47 | 0.00 | 19.22 | | • |
| 10,100.00 11.20 359.69 6,576.57 10,086.27 9.09 N 315.48 E 462,015.03 725,713.42 12.00 28.29 10,200.00 23.20 359.69 6,671.92 10,181.62 38.61 N 315.33 E 462,044.55 725,713.06 12.00 57.74 10,300.00 35.20 359.69 6,759.05 10,268.75 87.30 N 315.06 E 462,043.24 725,713.00 12.00 106.33 10,400.00 47.20 359.69 6,834.16 10,343.86 153.05 N 314.71 E 462,328.91 725,712.65 12.00 171.93 10,500.00 59.20 359.69 6,935.82 10,445.52 323.58 N 313.80 E 462,238.91 725,712.23 12.00 439.22 10,700.00 83.20 359.69 6,951.30 10,471.00 420.92 N 313.28 E 462,426.86 725,710.92 12.00 439.22 10,700.00 359.69 6,961.30 10,471.00 520.79 N 312.75 E 462,262.72 725,710.92 12.00 439.22 10,800.00 90.00 359.69 6,961.30 < | 10,006.67 | 0.00 | 0.00 | 6,483.83 | 9,993.53 | 0.00 S | 315.53 E | 462,005.94 | 725,713.47 | 0.00 | 19.22 | Start Build 1 | 2.00 |
| 10,200.00 23.20 359.69 6,671.92 10,181.62 38.61 N 315.33 E 462,044.55 725,713.26 12.00 57.74 10,300.00 35.20 359.69 6,759.05 10,268.75 87.30 N 315.06 E 462,093.24 725,713.00 12.00 106.33 10,400.00 47.20 359.69 6,834.16 10,343.86 153.05 N 314.71 E 462,158.99 725,712.23 12.00 251.69 10,500.00 59.20 359.69 6,893.82 10,445.52 323.58 N 313.80 E 462,232.52 725,711.74 12.00 342.10 10,700.00 83.20 359.69 6,961.30 10,471.00 477.46 N 312.98 E 462,426.86 725,711.22 12.00 495.64 Start/4276/61/hold/at/10756/67.MD 10,756.67 90.00 359.69 6,961.30 10,471.00 520.79 N 312.75 E 462,262.72 725,710.92 12.00 495.64 Start/4276/61/hold/at/10756/67.MD 10,900.00 90.00 359.69 6,961.30 10,471.00 20.78 N 311.68 E 462,262.72 725,709.62 0.00 538.87 <td>10,100.00</td> <td>11.20</td> <td>359.69</td> <td>6,576.57</td> <td>10,086.27</td> <td>9.09 N</td> <td>315.48 E</td> <td>462,015.03</td> <td>725,713.42</td> <td>12.00</td> <td>28.29</td> <td></td> <td></td> | 10,100.00 | 11.20 | 359.69 | 6,576.57 | 10,086.27 | 9.09 N | 315.48 E | 462,015.03 | 725,713.42 | 12.00 | 28.29 | | |
| 10,300,00 35.20 359.69 6,759.05 10,288.75 87.30 N 315.06 E 462,093.24 725,713.00 12.00 106.33 10,400.00 47.20 359.69 6,834.16 10,343.86 153.05 N 314.71 E 462,158.99 725,712.65 12.00 171.93 10,500.00 59.20 359.69 6,893.95 10,403.65 232.97 N 314.29 E 462,238.91 725,712.23 12.00 251.69 10,600.00 71.20 359.69 6,957.94 10,467.64 420.92 N 313.28 E 462,426.86 725,711.92 12.00 439.22 10,756.67 90.00 359.69 6,961.30 10,471.00 477.46 N 312.98 E 462,426.86 725,710.92 12.00 495.64 Statt4276161thold'at10756.67.MD 10,800.00 90.00 359.69 6,961.30 10,471.00 520.78 N 312.21 E 462,266.72 725,710.69 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.64 E 462,262.72 725,700.60 0.00 538.67 11,000.00 | 10,200.00 | 23.20 | 359.69 | 6,671.92 | 10,181.62 | 38.61 N | 315.33 E | 462,044.55 | 725,713.26 | 12.00 | 57.74 | | · · · · |
| 10,400.00 47.20 339.09 0,634.10 10,43.00 134.71 E 446.136.99 725,712.03 12.00 171.93 10,500.00 59.20 359.69 6,935.82 10,445.52 323.97 N 314.29 E 462,238.91 725,712.23 12.00 251.69 10,600.00 71.20 359.69 6,935.82 10,445.52 323.97 N 313.80 E 462,2329.52 725,711.74 12.00 342.10 10,700.00 83.20 359.69 6,961.30 10,471.00 477.46 N 312.98 E 462,426.86 725,710.92 12.00 495.64 Start 4276.61 hold at 10756.67 MD 10,800.00 90.00 359.69 6,961.30 10,471.00 520.79 N 312.21 E 462,426.872 725,710.92 12.00 495.64 Start 4276.61 hold at 10756.67 MD 10,800.00 90.00 359.69 6,961.30 10,471.00 720.78 N 311.68 E 462,726.72 725,709.62 0.00 738.43 11,000.00 90.00 359.69 6,961.30 10,471.00 202.78 N 311.61 E 462,226.72 725,709.08 0.00 838.21 | 10,300,00 | 35.20 | 359.69 | 6,759.05 | 10,268.75 | 87.30 N | 315.06 E | 462,093.24 | 725,713.00 | 12.00 | 106.33 | | |
| 10,500.00 59,20 539,09 6,935,95 10,405,52 32,57 N 514,29 E 402,238,91 725,712,23 12,00 291,09 10,600.00 71,20 359,69 6,935,92 10,445,52 323,58 N 313,80 E 462,329,52 725,711,74 12,00 342.10 10,700.00 83,20 359,69 6,967,94 10,447,64 420,92 N 313,28 E 462,426,86 725,711,22 12.00 495,64 Start 4276,61 hold at 10756,67 MD 10,756,67 90.00 359,69 6,961,30 10,471.00 520.79 N 312,75 E 462,526.72 725,710.69 0.00 538.87 10,900.00 90.00 359,69 6,961.30 10,471.00 520.79 N 312,21 E 462,626.72 725,710.15 0.00 638.65 11,000.00 90.00 359,69 6,961.30 10,471.00 720.78 N 311.14 E 462,826.72 725,709.08 0.00 838.21 11,200.00 90.00 359.69 6,961.30 10,471.00 1020.78 N 310.61 E 462,926.72 725,708.55 0.00 937.99 11,200.00 | 10,400.00 | 4 7.20 | 250.60 | 6 902 05 | 10,343.00 | 133.03 N | 314.20 E | 462,130,33 | 725,712.00 | 12.00 | 751.00 | | |
| 10,500.00 83.20 359.69 6,957.94 10,471.00 420.92 N 313.28 E 462,426.86 725,711.22 12.00 439.22 10,756.67 90.00 359.69 6,961.30 10,471.00 477.46 N 312.98 E 462,426.86 725,711.22 12.00 495.64 Start/4276/61/hold/at/0756/67 MD 10,800.00 90.00 359.69 6,961.30 10,471.00 520.79 N 312.75 E 462,526.72 725,710.69 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 620.78 N 312.21 E 462,626.72 725,710.15 0.00 638.65 11,000.00 90.00 359.69 6,961.30 10,471.00 720.78 N 311.48 E 462,726.72 725,709.62 0.00 738.43 11,100.00 90.00 359.69 6,961.30 10,471.00 920.78 N 311.4E 462,826.72 725,709.62 0.00 738.43 11,200.00 90.00 359.69 6,961.30 10,471.00 920.78 N 310.07 E 463,026.72 725,708.55 0.00 937.99 11,300.00 | 10,500,00 | 59.20 71.20 | 359.09 | 6 935 82 | 10,403.05 | 232.97 N 323 58 N | 313.80 E | 402,230.91 | 725,712.23 | 12.00 | 201.09 | | |
| 10,756.67 90.00 359.69 6,961.30 10,471.00 477.46 N 312.98 E 462,483.40 725,710.92 12.00 495.64 Start 4276.61 hold at 10756.67 MD 10,800.00 90.00 359.69 6,961.30 10,471.00 520.79 N 312.75 E 462,526.72 725,710.69 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 620.78 N 312.21 E 462,626.72 725,710.15 0.00 638.65 11,000.00 90.00 359.69 6,961.30 10,471.00 720.78 N 311.68 E 462,726.72 725,709.62 0.00 738.43 11,100.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.14 E 462,826.72 725,709.08 0.00 838.21 11,200.00 90.00 359.69 6,961.30 10,471.00 920.78 N 310.07 E 463,026.72 725,708.55 0.00 838.21 11,200.00 90.00 359.69 6,961.30 10,471.00 1,20.78 N 310.07 E 463,026.72 725,708.65 0.00 1,037.77 11,400.00 | 10,700.00 | 83.20 | 359.69 | 6.957.94 | 10.467.64 | 420.92 N | 313.28 E | 462,426.86 | 725.711.22 | 12.00 | 439.22 | | |
| 10,800.00 90.00 359.69 6,961.30 10,471.00 520.79 N 312.75 E 462,526.72 725,710.69 0.00 538.87 10,900.00 90.00 359.69 6,961.30 10,471.00 620.78 N 312.21 E 462,626.72 725,710.15 0.00 638.65 11,000.00 90.00 359.69 6,961.30 10,471.00 720.78 N 311.68 E 462,726.72 725,709.62 0.00 738.43 11,100.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.14 E 462,826.72 725,709.08 0.00 838.21 11,200.00 90.00 359.69 6,961.30 10,471.00 920.78 N 310.61 E 462,926.72 725,708.55 0.00 937.99 11,300.00 90.00 359.69 6,961.30 10,471.00 1,207.78 N 310.07 E 463,026.72 725,708.01 0.00 1,037.77 11,400.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.54 E 463,126.71 725,707.48 0.00 1,137.55 11,500.00 90.00 359.69 | 10,756.67 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 477.46 N | 312.98 E | 462,483.40 | 725,710.92 | 12.00 | 495.64 | Start 4276 6 | 1 hold at 10756.67 MD |
| 10,900.00 90.00 359.69 6,961.30 10,471.00 620.78 N 312.21 E 462,626.72 725,710.15 0.00 638.65 11,000.00 90.00 359.69 6,961.30 10,471.00 720.78 N 311.68 E 462,726.72 725,709.62 0.00 738.43 11,100.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.14 E 462,826.72 725,709.08 0.00 838.21 11,200.00 90.00 359.69 6,961.30 10,471.00 920.78 N 310.61 E 462,926.72 725,708.55 0.00 937.99 11,300.00 90.00 359.69 6,961.30 10,471.00 1,020.78 N 310.07 E 463,026.72 725,708.55 0.00 937.99 11,400.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.54 E 463,126.71 725,707.48 0.00 1,37.75 11,400.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,37.55 11,500.00 90.00 359.69 | 10,800.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 520.79 N | 312.75 E | 462,526.72 | 725,710.69 | 0.00 | 538.87 | | , |
| 11,000.00 90.00 359.69 6,961.30 10,471.00 720.78 N 311.68 E 462,726.72 725,709.62 0.00 738.43 11,100.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.14 E 462,826.72 725,709.08 0.00 838.21 11,200.00 90.00 359.69 6,961.30 10,471.00 920.78 N 310.61 E 462,926.72 725,708.55 0.00 937.99 11,300.00 90.00 359.69 6,961.30 10,471.00 1,020.78 N 310.07 E 463,026.72 725,708.01 0.00 1,037.77 11,400.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.54 E 463,126.71 725,707.48 0.00 1,137.55 11,500.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,237.33 11,600.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,237.33 11,600.00 90.00 359.69< | 10,900.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 620.78 N | 312.21 E | 462,626.72 | 725,710.15 | 0.00 | 638.65 | | |
| 11,100.00 90.00 359.69 6,961.30 10,471.00 820.78 N 311.14 E 462,826.72 725,709.08 0.00 838.21 11,200.00 90.00 359.69 6,961.30 10,471.00 920.78 N 310.61 E 462,926.72 725,708.55 0.00 937.99 11,300.00 90.00 359.69 6,961.30 10,471.00 1,020.78 N 310.07 E 463,026.72 725,708.01 0.00 1,037.77 11,400.00 90.00 359.69 6,961.30 10,471.00 1,120.78 N 309.54 E 463,126.71 725,707.48 0.00 1,137.55 11,500.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,237.33 11,600.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.47 E 463,326.71 725,706.94 0.00 1,237.33 11,600.00 90.00 359.69 6,961.30 10,471.00 1,220.77 N 308 47 E 463,326.71 725,706.94 0.00 1,237.33 <td>11,000.00</td> <td>90.00</td> <td>359.69</td> <td>6,961.30</td> <td>10,471.00</td> <td>720.78 N</td> <td>311.68 E</td> <td>462,726.72</td> <td>725,709.62</td> <td>0.00</td> <td>738.43</td> <td></td> <td></td> | 11,000.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 720.78 N | 311.68 E | 462,726.72 | 725,709.62 | 0.00 | 738.43 | | |
| 11,200.00 90.00 359.69 6,961.30 10,471.00 920.78 N 310.61 E 462,926.72 725,708.55 0.00 937.99 11,300.00 90.00 359.69 6,961.30 10,471.00 1,020.78 N 310.07 E 463,026.72 725,708.01 0.00 1,037.77 11,400.00 90.00 359.69 6,961.30 10,471.00 1,120.78 N 309.54 E 463,126.71 725,707.48 0.00 1,137.55 11,500.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,237.33 11,600.00 90.00 359.69 6,961.30 10,471.00 1,320.77 N 308.47 E 463,326.71 725,706.41 0.00 1,337.11 | 11,100.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 820.78 N | 311.14 E | 462,826.72 | 725,709.08 | 0.00 | 838.21 | | , |
| 11,500.00 90.00 359.69 6,961.30 10,471.00 1,020.78 N 309.54 E 463,126.71 725,707.48 0.00 1,031.77 11,500.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,237.33 11,600.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,237.33 | 11,200.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 920.78 N | 310.61 E | 462,926.72 | 725,708.55 | 0.00 | 937.99 | | |
| 11,400.00 90.00 359.69 6,961.30 10,471.00 1,120.78 N 309.04 E 463,126.71 725,706.48 0.00 1,137.55 11,500.00 90.00 359.69 6,961.30 10,471.00 1,220.78 N 309.00 E 463,226.71 725,706.94 0.00 1,237.33 11,600.00 90.00 359.69 6,961.30 10,471.00 1,320.77 N 308.47 E 463.326.71 725.706.41 0.00 1,337.11 | 11,000.00 | 30.00 | 350.09 | 0,001.00 | 10,471.00 | 1 420.70 N | 300.54 | 403,020.72 | 705 707 40 | 0.00 | 1,031.11 | | |
| 11.600.00 90.00 359.69 6.961.30 10.471.00 1.320.77 N 308 47 E 463.326.71 725.706.41 0.00 1.337.11 | 11,400.00 | 90.00 90.00 | 359.09 359.69 | 0,901.30 6 961 30 | 10,471.00 | 1,120.78 N | 309.04 E 309.00 E | 403,120.71 463 226 71 | 725 706 04 | 0.00 | 1,137.35 | | |
| | 11,600.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 1,320.77 N | 308.47 E | 463,326,71 | 725,706.41 | 0.00 | 1,337.11 | | |

16 October, 2013 - 10:16

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Plan Report for Aldabra 25 FED #2H - Plan#2 100913 RevA1

| Weasured Depth | Inclination | Grid Azimuth | TVD below System | Vertical Depth | Local Coc Northing | rdinates Easting | Map Coord Northing | linates Easting | Dogleg Rate | Vertical Section | Comments | |
|-------------------|-------------|-----------------|---------------------|-------------------|-----------------------|-----------------------|-----------------------|--------------------|----------------|---------------------|---|--|
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (usft) | (usft) | (°/100usft) | (ft) | | |
| 11,700.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 1,420.77 N | 307.93 E | 463,426.71 | 725,705.87 | 0.00 | 1,436.89 | | |
| 11,800.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 1,520.77 N | 307.40 E | 463,526.71 | 725,705.34 | 0.00 | 1,536.67 | | |
| 11,900.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 1,620.77 N | 306.86 E | 463,626.71 | 725,704.80 | 0.00 | 1,636.45 | | |
| 12,000.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 1,720.77 N | 306.33 E | 463,726.70 | 725,704.27 | 0.00 | 1,736.23 | | |
| 12,100.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 1,820.77 N | 305.80 E | 463,826.70 | 725,703.73 | 0.00 | 1,836.01 | | |
| 12,200.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 1,920.77 N | 305.26 E | 463,926.70 | 725,703.20 | 0.00 | 1,935.79 | · · · · · · · · · · · · · · · · · · · | |
| 12,300.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,020.76 N | 304.73 E | 464,026.70 | 725,702.67 | 0.00 | 2,035.57 | · | |
| 12,400.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,120.76 N | 304.19 E | 464,126.70 | 725,702.13 | 0.00 | 2,135.35 | . : | |
| 12,500.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,220.76 N | 303.66 E | 464,226.70 | 725,701.60 | 0.00 | 2,235.13 | | |
| 12,600.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,320.76 N | 303.12 E, | 464,326.70 | 725,701.06 | 0.00 | 2,334.91 | | |
| 12,700.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,420.76 N | 302.59 E | 464,426.69 | 725,700.53 | 0.00 | 2,434.69 | | |
| 12,800.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,520.76 N | 302.05 E | 464,526.69 | 725,699.99 | 0.00 | 2,534.47 | | |
| 12,900.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,620.76 N | 301.52 E | 464,626.69 | 725,699.46 | 0.00 | 2,634.26 | | |
| 13,000.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,720.75 N | 300.98 E | 464,726.69 | 725,698.92 | 0.00 | 2,734.04 | | |
| 13,100.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,820.75 N | 300.45 E | 464,826.69 | 725,698.39 | 0.00 | 2,833.82 | | |
| 13,200.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 2,920.75 N | 299.91 E | 464,926.69 | 725,697.85 | 0.00 | 2,933.60 | | |
| 13,300.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,020.75 N | 299.38 E | 465,026.68 | 725,697.32 | 0.00 | 3,033.38 | i de la companya de l | |
| 13,400.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,120.75 N | 298.84 E | 465,126.68 | 725,696.78 | 0.00 | 3,133.16 | i | |
| 13,500.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,220.75 N | 298.31 E | 465,226.68 | 725,696.25 | 0.00 | 3,232.94 | · _ | |
| 13,600.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,320.75 N | 297.77 E | 465,326.68 | 725,695.71 | 0.00 | 3,332.72 | | |
| 13,700.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,420.74 N | 297.24 E | 465,426.68 | 725,695.18 | 0.00 | 3,432.50 | | |
| 13,800.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,520.74 N | 296.71 E | 465,526.68 | 725,694.64 | 0.00 | 3,532.28 | | |
| 13,900.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,620.74 N | 296.17 E [•] | 465,626.67 | 725,694.11 | 0.00 | 3,632.06 | | |
| 14,000.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,720.74 N | 295.64 E | 465,726.67 | 725,693.58 | 0.00 | 3,731.84 | | |
| 14,100.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,820.74 N | 295.10 E | 465,826.67 | 725,693.04 | 0.00 | 3,831.62 | | |
| 14,200.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 3,920.74 N | 294.57 E | 465,926.67 | 725,692.51 | 0.00 | 3,931.40 | | |
| 14,300.00 | 90.00 | 359,69 | 6,961.30 | 10,471.00 | 4,020.74 N | 294.03 E | 466,026.67 | 725,691.97 | 0.00 | 4,031.18 | | |
| 14,400.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 4,120.73 N | 293.50 E | 466,126.67 | 725,691.44 | 0.00 | 4,130.96 | | |
| 14,500.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 4,220.73 N | 292.96 E | 466,226.66 | 725,690.90 | 0.00 | 4,230.74 | | |
| 14,600.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 4,320.73 N | 292.43 E | 466,326.66 | 725,690.37 | 0.00 | 4,330.52 | | |
| 14,700.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 4,420.73 N | 291.89 E | 466,426.66 | 725,689.83 | 0.00 | 4,430.30 | | |
| 14,800.00 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 4,520.73 N | 291.36 E | 466,526.66 | 725,689.30 | 0.00 | 4,530.08 | | |
| 14,900.00 | 90.00 | 359.69 | 6,961.30 | 10,471,00 | 4,620.73 N | 290.82 E | 466,626.66 | 725,688.76 | 0.00 | 4,629.86 | i i i i i i i i i i i i i i i i i i i | |
| 15,000.00 | 90.00 | 359,69 | 6,961.30 | 10,471.00 | 4,720.73 N | 290.29 E | 466,726.66 | 725,688.23 | 0.00 | 4,729.64 | | |
| 15,033.28 | 90.00 | 359.69 | 6,961.30 | 10,471.00 | 4,754.01 N | 290.11 E | 466,759.94 | 725,688.05 | 0.00 | 4,762.85 | TD at 15033 28 4 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20 | |

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Plan Report for Aldabra 25 FED #2H - Plan#2 100913 RevA1

Plan Annotations

| Measured | Vertical | Local Coor | dinates | |
|---------------|---------------|---------------|---------------|-----------------------------------|
| Depth (ft) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
| 5,736.67 | 5,736.67 | 0.00 | 0.00 | Start Build 1.00 |
| 6,236.67 | 6,236.04 | 0.00 | 21.80 | Start 3120.00 hold at 6236.67 MD |
| 9,356.67 | 9,344.16 | 0.00 | 293.73 | Start Drop -1.00 |
| 9,856.67 | 9,843.53 | 0.00 | 315.53 | Start 150.00 hold at 9856.67 MD |
| 10,006.67 | 9,993.53 | 0.00 | 315.53 | Start Build 12.00 |
| 10,756.67 | 10,471.00 | 477.46 | 312.98 | Start 4276.61 hold at 10756.67 MD |
| 15,033.28 | 10,471.00 | 4,754.01 | 290.11 | TD at 15033.28 |

Vertical Section Information

| | Angle | , | | Origin | Orig | Start | |
|-----------------|------------|----------------------|----------------|--------|---------------|---------------|-------------|
| | Туре | Target | Azimuth (°) | Туре | +N/_S (ft) | +E/-W (ft) | TVD (ft) |
| TD | | No Target (Freehand) | 3.49 | Slot | 0.00 | 0.00 | 0.00 |
| Survey tool pro | ogram | | | | | | |
| From (ft) | To (ft) | | Survey/Plan | | | Surve | ey Tool |
| 0.00 | 15,033.20 | Plan#2 100913 RevA1 | | | | MWD | |

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Formation Details

| Measured Depth (ft) | Vertical Depth (ft) | TVDSS (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------------|---------------------------|---------------|----------------------|-----------|------------|-------------------------|
| 843.70 | 843.70 | -2,666.00 | RUSTLER | | 0.00 | |
| 1,172.70 | 1,172.70 | -2,337.00 | TOP SALT | | 0.00 | |
| 4,270.70 | 4,270.70 | 761.00 | BASE SALT | | 0.00 | |
| 4,500.70 | 4,500.70 | 991.00 | DELAWARE | | 0.00 | |
| 4,541.70 | 4,541.70 | 1,032.00 | Bell Canyon | | 0.00 | |
| 5,419.70 | 5,419.70 | 1,910.00 | Cherry Canyon | | 0.00 | |
| 6,681.03 | 6,678.70 | 3,169.00 | Brushy Canyon | | 0.00 | |
| 8,349.37 | 8,340.70 | 4,831.00 | BONE SPRING LIME | 3 | 0.00 | |
| 9,385.31 | 9,372.70 | 5,863.00 | 1st Bone Spring Sand | | 0.00 | |
| 9,881.84 | 9,868.70 | 6,359.00 | KOP | | 0.00 | |
| 10,028.85 | 10,015.70 | 6,506.00 | 2nd Bone Spring Sand | | 0.00 | |

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i.

HALLIBURTON

Devon

Eddy County, NM (NAD 83)

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Plan Report for Aldabra 25 FED #2H - Plan#2 100913 RevA1

| <u>Design Targets</u> Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|--|---------------------|--------------------|-----------------|---------------|---------------|--------------------|-------------------|------------------|-------------------|
| Aldadra 25 FED #21 | - LP () 0.00 | 0.00 | 10.471.00 | 461,76 | 312.44 | 462,467,70 | 725,710,38 | 32° 16' 11.963 N | 103° 44' 12 513 W |
| plan misses targ Point | et center | by 0.67f | t at 10741.00ft | MD (10470.74 | TVD, 461.79 | N, 313.06 E) | | | |
| Aldabra 25 FED #2 | H BHL 0 | | | | | | | | |
| | 0.00 | - 0.00 | 10,471.00 | 4,754.01 | 290:11 | 466,759.94 | 725,688.05 | 32° 16:54.438 N | 103° 44' 12.495'W |
| Point Roint | enter | | | | | | | | |

Directional Difficulty Index

| Average Dogleg over Survey: | 0.67 °/100usft | Maximum Dogleg over Survey: | 12.00 °/100usft at 10,756.67 ft |
|-------------------------------------|----------------|-------------------------------|------------------------------------|
| Net Tortousity applicable to Plans: | 0.67 °/100usft | Directional Difficulty Index: | 6.083 |

<u>Audit Info</u>

North Reference Sheet for Sec 25 T. 23S., R.31E. - Aldabra 25 FED #2H - Wellbore #1

All data is in Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference. Vertical Depths are relative to WELL @ 3509.70ft (HP 223 25'KB). Northing and Easting are relative to Aldabra 25 FED #2H Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:0° 0' 0.000 N°

False Easting: 541,337.50usft, False Northing: 0.00usft, Scale Reduction: 0.99994789

Grid Coordinates of Well: 462,005.94 usft N, 725,397.94 usft E Geographical Coordinates of Well: 32° 16' 07.41" N, 103° 44' 16.18" W Grid Convergence at Surface is: 0.32°

Based upon Minimum Curvature type calculations, at a Measured Depth of 15,033.28ft the Bottom Hole Displacement is 4,762.85ft in the Direction of 3.49° (Grid). Magnetic Convergence at surface is: -7.17° (9 October 2013, BGGM2013)



16 October, 2013 - 10:16

PECOS DISTRICT CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | DEVON ENERGY COMPANY |
|-----------------------|--------------------------------------|
| LEASE NO.: | NM0405444A |
| WELL NAME & NO.: | 2H-ALDABRA 25 FEDERAL |
| SURFACE HOLE FOOTAGE: | 0200'/S. & 0635'/W. |
| BOTTOM HOLE FOOTAGE | 0330'/N. & 1000'/W. |
| LOCATION: | Section 25, T. 23 S., R. 31 E., NMPM |
| COUNTY: | Eddy County, New Mexico |
| API: | 30-015-38613 |

<u>COAs from 07/27/2012 still stand with the following drilling modifications:</u>

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated prior to drilling out the surface shoe. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash Possible lost circulation in the Delaware and Bone Spring. Possible water and brine flows in the Salado, Castile, Delaware and Bone Spring.

- 1. The 20 inch surface casing shall be set at approximately 900 feet (below the Magenta Dolomite of the Rustler Anhydrite and above the salt) and cemented to the surface. Freshwater mud to be used to setting depth.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **13-3/8** inch 1st intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.

- 3. The minimum required fill of cement behind the 9-5/8 inch 2^{nd} intermediate casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.

Contingency cement for the 9-5/8 inch casing if lost circulation is encountered:

Operator has proposed two DV tools at depths of 7000' and 4500', but will adjust cement proportionately if moved. DV tool at 4500' shall be set a minimum of 50' below previous shoe and DV tool at 7000' a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with third stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

- c. Third stage above DV tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash. Additional cement may be required as excess calculates to 13%.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Additional cement may be required as excess calculates to 23%.
- 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).
- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

- 5. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 1st intermediate casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 6. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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