Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS OCD
MAY 08 2012
RECEIVED

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

## SUNDRY NOTICES AND REPORTS ON WELLS

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE*** – *Other instructions on page 2.*

5 Lease Serial No
NM-0315712

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
Maljamar 15 Federal #1

2 Name of Operator
Devon Energy Production Company, L.P.

9 API Well No
30-025-34549

3a. Address
20 North Broadway, Oklahoma City, OK 73102

3b Phone No. *(include area code)*
405-235-3611

10. Field and Pool or Exploratory Area
ABO

4 Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SL 1310' FNL & 1310' FEL SEC 15 T17S R32E

11 Country or Parish, State
Lea County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☑ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Subsequent Report | ☐ Casing Repair | ☐ New Construction | ☑ Recomplete | ☑ Other Revised RC |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Final Abandonment Notice | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13 Describe Proposed or Completed Operation Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection ) Operator to verify cement behind casing. TMM

Devon Energy Production Company L. P. respectfully requests to :Temprarily TA Abo & WC. Squeeze Cmnt Void. Acidize & Frac Paddock. **H2S may be present once perforating Paddock.

1) MIRU PU. Apply LOTO. Set pipe racks. Kill well w/2% KCL. Unseat pump. POOH w/ rods & pump. ND WH. NU 5K manual BOP. Unset TAC. POOH w/tbg.
2) MIRU WL. Set CIBP @ ~7900'. Test 1000psi.
3) Shoot squeeze holes 4SPF/90° phasing 0.40" holes @ 7770': Total 4 holes. RD WL.
4)PU/MU cement retainer. Set retainer @ 7720'. Sting out of retainer & make sure you can circulate. Sting into retainer & see if an inj rate can be established
5)Squeeze cmnt void 6520-7826 as per BHI recommendation. Sting out of retainer & rev circ cmt out.
6) RIH w/bit, DCs & tbg. RU swivel & DO retainer to CIBP @ 7900'. PT csg to 500 psi. POOH w/ tbg.
7) RU WL. Perf Paddock w/ 30 Total shots as follows: 5592-96': 4 holes; 5610-24': 14 holes; 5823-30': 7 holes; 5860-63': 3 holes & 5867-69': 2 holes.
8) RIH w/ pkr & tbg. Hydrotest tbg. Set pkr @ 5542'. Apply 500 psi to backside. RU BHI & acidize 5592-5624'. PUH & set pkr. Acidize w/ 3Kg 15% HCL & BS. POOH w/ tbg & pkr.
9)Receive ~5600' of 3-1/2 9.2#/L-80 tbg for WS. RU Big Bear LD machine. CO pipe rams on BOP. PU pkr hydrotest tbg bellow slips & set @ ~5542'. ND BOP. NU FMC 3-1/2" frac tree.
10)RU BHI & frac Paddock w/ 220,000g Viking 1500, 2011g Slick FW; 135,550# brown sd 20/40 & 24,500# 16/30 SiberProp.
11)RD BHI. FWB. POOH w/ WS.
12) RIH w/ tbg. Set TAC @ ~5492' & SN @ ~5890'. RDMO. PU.

revised procedure attached per Operator request 4/30/2012 TMM

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Judy A. Barnett

Title Regulatory Specialist

Signature Judy A. Barnett

Date 01/19/2012

APPROVED
MAY - 3 2012
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

### THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by SEE ATTACHED FOR CONDITIONS OF APPROVAL

PETROLEUM ENGINEER

Title

Date

Conditions of approval, if any, are attached Approval of this notice 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.

Office

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)

MAY 08 2012

devon

Recompletion- Paddock

Ron Hays
Engineer
405.552.8150

# Maljamar 15 Fed #1

AFE # 202387

**Objective** - Temprairly TA Abo & WC. Acidize & Frac Paddock. **H2S may be present once perforating Paddock.

API# - 30-025-34549 Location - Lea Co. -- Sec 15-17S-32E
GL - 4,074' KB - 4,094' (20')
TD - 13,861' PBTD - 11,930' w/ CIBP & 20' cmt

| Casing | OD | WT/FT | Grade | Top | Bottom | TOC | 80% Collapse (psi) | 80% Burst (psi) |
|---|---|---|---|---|---|---|---|---|
| Surface | 13-3/8 | 48 | H-40 | 0 | 668 | Surface | | |
| Intermediate | 9-5/8 | 36 | J-55 | 0 | 4,615 | Surface | | |
| | | 17 | N-80 | 0 | 4,680 | | 5,024 | 6,192 |
| | | 17 | J-55 | 4,680 | 7,965 | | 3,928 | 4,256 |
| Production | 5-1/2 | 20 | N-80 | 7,965 | 12,662 | 4596 | 7,064 | 7,352 |
| Tubing | | | | | | | | |
| Production | 2-7/8 | 6.5 | N-80 | 0 | 10,525 | - | 10,464 | 11,624 |

Current perforations - 8,964'-9,112' (Abo) 9,770'-9,822' & 10,440'-10,682' (Wolfcamp)

Current BHA - 284 jts tbg, TAC, 58 jts tbg, SN @ 10,743', Perf Sub, 1 jt tbg, BP EOT @ 10,779'. Rods: 85 1" N-97, 107 7/8" N-97, 223 3/4" N-97, 10 1" N-97. 24ft 1-1/4 pump w/ 6ft gas anchor.

**There is no cmt bond from 6,520'-7,826'. DV Tool @ 6,493

Verify cement behind casing. TMM

## Procedure

1) MIRU WSU. Apply LOTO. Set pipe racks. Kill well w/ 2% KCL if necessary. Unseat pump. POOH w/ rods and pump. ND WH. NU 5K manual BOP. Test BOP to Devon specifications. Unset TAC. POOH w/ tubing.
2) MIRU WL Services with full lubricator. Test lubricator to Devon specifications. Make GR run to 6,300'KBM. Set 5-1/2", 17#, 10K composite BP @ 6,270'. Dump bail 35'of cement on top of composite B'plug. Load casing with 2% KCL and test 5-1/2" casing to 1,000 psi.
3) RU WL. With 3-1/8" slick guns, perf Paddock w/ 30 total shots as follows:

| Formation | Perf Interval (ft) | Feet | Density (spf) | Phasing (°) | Charge (in) | # of Holes |
|---|---|---|---|---|---|---|
| Paddock | 5,592 - 5,596 | 4 | 1 | 60 | 0.57 | 4 |
| | 5,610 - 5,624 | 14 | 1 | 60 | 0.57 | 14 |
| | 5,823 - 5,830 | 7 | 1 | 60 | 0.57 | 7 |
| | 5,860 - 5,863 | 3 | 1 | 60 | 0.57 | 3 |
| | 5,867 - 5,869 | 2 | 1 | 60 | 0.57 | 2 |

Inserted per Operator 4/30/12 TMM

devon

**Maljamar 15 Fed 1 - Procedure Cont.**

4) RU safety services and personnel for H2S monitoring.
5) RIH w/ Weatherford 10K HD treating packer & 2-7/8" tbg to 5,626' KBM. Hydrotest 2-7/8" tubing below slips to 7,000 psi while TIH.
6) RU BHI Services. Test lines. Spot acid across U Paddock perfs @ 5,592'-5,624'. PUH & set packer ~5,542'. Apply 500 psi to backside. Make sure packer tests. Acidize well with 3,000 gals 15% HCL with ball sealers. Shut well in for one hr, flow well back. Knock balls to bottom & POOH w/ tubing & packer.
7) Receive ~5,600' of 3-1/2", 9.2#, L-80 tbg for work string. RU Big Bear lay down machine. Change out pipe rams on BOP. PU Weatherford 10K big bore HD pkr hydrotest tubing below slips to 8,000 psi & set Pkr at ~5,542'. ND BOP. NU FMC 3-1/2" frac tree. **Have Stinger tree saver ready for frac.
8) RU BHI Services. Apply 500 psi to the backside. Frac Paddock as follows.

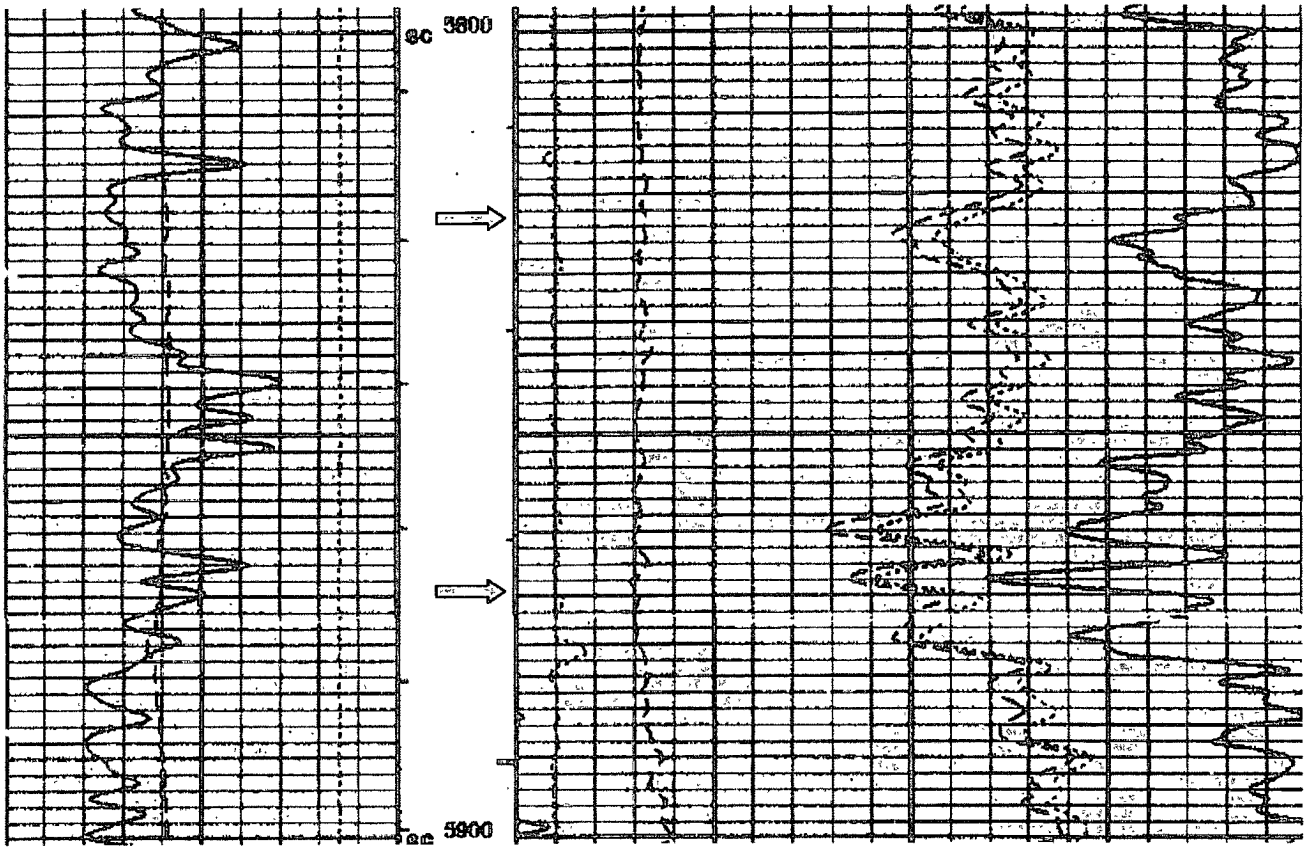
| | Fluid | | Proppant | | | |
|---|---|---|---|---|---|---|
| stage | Type | Volume (gal) | Conc. (ppa) | Type | Stage (lbs) | Cum (lbs) |
| 1 | Viking 1500 | 50000 | | | | |
| 2 | Viking 1500 | 28000 | 0.25 | 100%Sand, Brown, 20/40 | 7000 | 7000 |
| 3 | Viking 1500 | 35000 | 0.50 | 100%Sand, Brown, 20/40 | 17500 | 24500 |
| 4 | Viking 1500 | 69000 | 1.00 | 100%Sand, Brown, 20/40 | 69000 | 93500 |
| 5 | Viking 1500 | 28000 | 1.50 | 100%Sand, Brown, 20/40 | 42000 | 135500 |
| 6 | Viking 1500 | 4000 | 2.00 | 100%SiberProp, 16/30 | 8000 | 143500 |
| 7 | Viking 1500 | 3000 | 2.50 | 100%SiberProp, 16/30 | 7500 | 151000 |
| 8 | Viking 1500 | 3000 | 3.00 | 100%SiberProp, 16/30 | 9000 | 160000 |
| 9 | Slick Fresh Water | 2011 | | | | 160000 |
| Total | | 222011 | | | | 160000 |

9) RD BHI. Flow well back at 30 bbl/hr for 12 hrs and then start increasing to a maximum of 60 bbl/hr until well dies.
10) POOH laying down 3-1/2" work string.
11) RIH w/ production tubing. Set TAC ~ 5,492'. Set SN @ ~5,890'. Run 28ft sand screen on bottom. See rodstar report for new rod design.**Due to COG offsetting production rates, a 2" pump should be run with this well with a Stanley filter. RDMO WSU and all rentals.
12) Initiate a corrosion inhibitor program if H2S was detected.

Inserted per Operator
4/30/2012
Tamm

devon

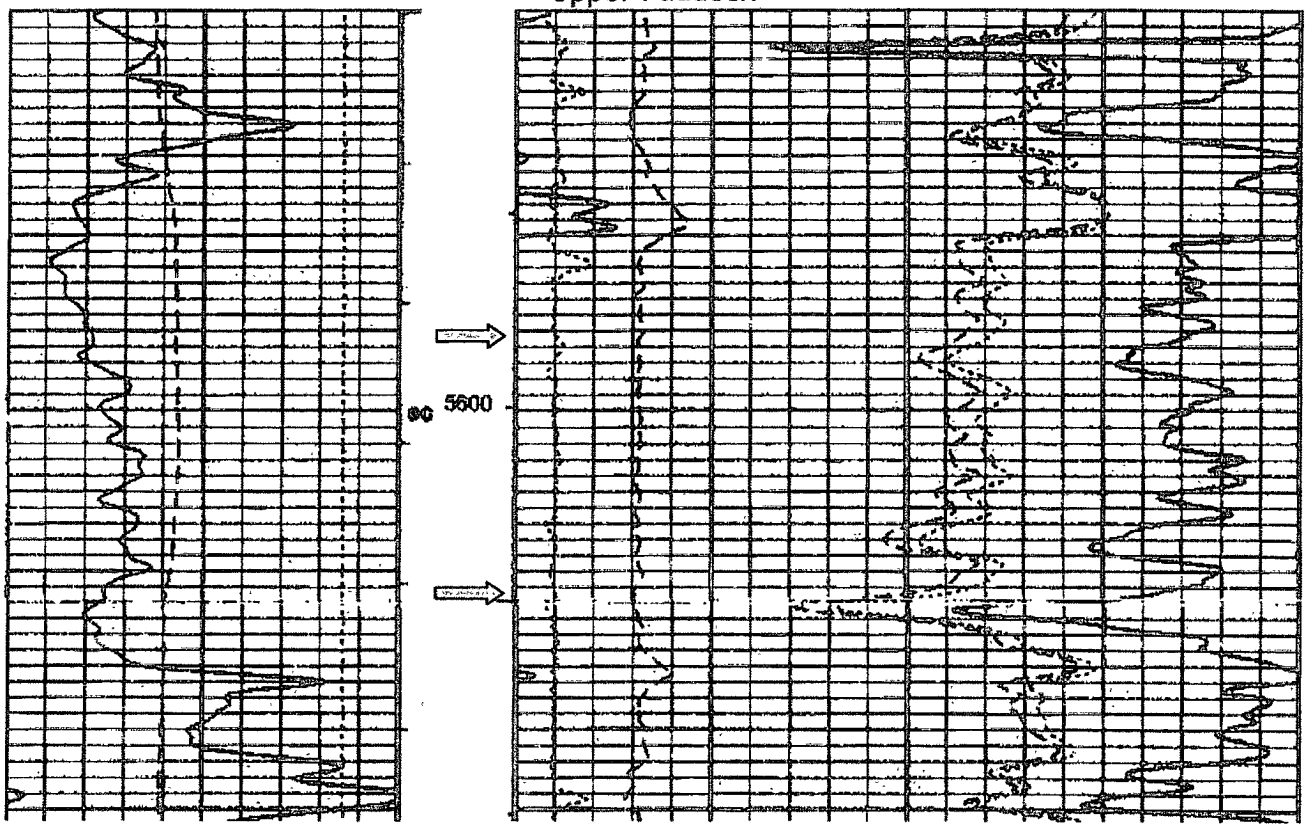
Lower Paddock




Inserted per Operator 4/30/2014 mm

devon

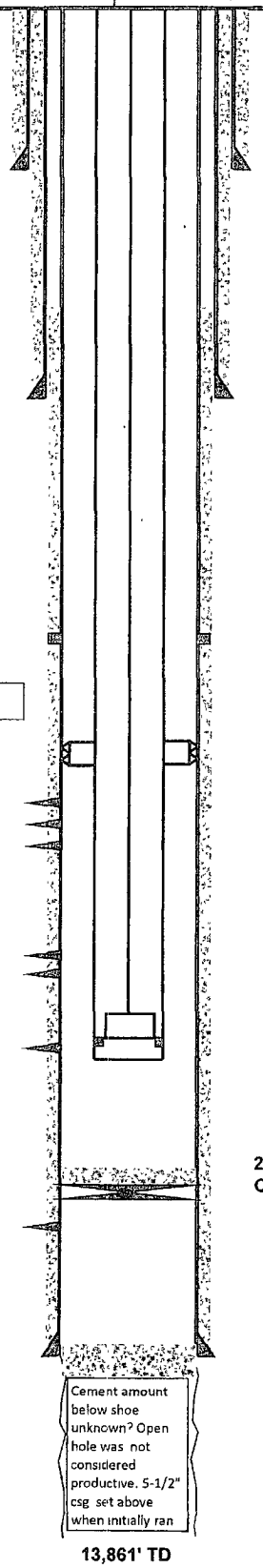
Upper Paddock




Inserted per Operator 4/30/2015 Tamra

# DEVON ENERGY PRODUCTION COMPANY LP

| | | | |
|---|---|---|---|
| Well Name: MALJAMAR 15 FEDERAL #1 | | Field: BAISH | |
| Location: 1310' FNL & 1310' FEL; SEC 15, T17S, R32E | | County: LEA | State: NM |
| Elevation: 4094' KB; 4074' GL; 20' KB AGL | | Spud Date: 12/10/98 | Compl Date: 3/24/99 |
| API#: 30-025-34549 | Prepared by: Ronnie Slack | Date: 2/22/10 | Rev: 4/25/2012 RKH |



17-1/2" hole.
**13-3/8", 48#, H40, STC, @# 668'**
Cmt'd w/525 sx Cl C. Circulated

**TOC @ 4596', w/1000 psi** *(cbl-2/11/99)*

12-1/4" hole
**9-5/8", 36# & 40#, J55 & K55, STC, @ 4,615'**
Cmt'd w/1200 sx Cl C. Circulated

**DV Tool @ 6,495'**

**No cement noted from 6,520' to 7,826'** *(cbl-2/11/99)*

***ABO (3/23/2011)***
***8,964' - 8,967'***
***9,075' - 9,078'***
***9,108' - 9,112'***
3/26/2011-Frac w/ ~47K lbs 20/40 sd 0 25 - 1 ppg

***WOLFCAMP*** *(9/1/99)*
***9,770' - 9,784'***
***9,808' - 9,822'***
9/3/99-acidized 9770-9822 w/2250 gals 15%
9/10/99 acidized 9770-9822 w/7500 gals 20%

***WOLFCAMP*** *(3/99)*
***10,440' - 10,682'***
*8550 gal 15% NEFE HCL (cmpl rtp)*

***ATOKA***
***12,033' - 12,050'***

7-7/8" Hole
**5-1/2", 17#, N80, 0' - 4680'**
**5-1/2", 17#, J55, 4680' - 7965'**
**5-1/2", 20#, N80, 7965' - 12662'**
1st Stg 1800 sx Cl H
2nd Stg 525 sx Cl C

Cement amount below shoe unknown? Open hole was not considered productive. 5-1/2" csg set above when initially ran

**13,861' TD**

comments

12/10/98: spud by Santa Fe Energy
11/1/02. oper change to Devon Energy

RIH PUMP & RODS AS FOLLOWS (BTM UP). 6' X 1-1/4" FILTER, 24' X 1 1/4" RHBC, 1' X 1" LIFT SUB, 10 - 1"-RODS, 223 - 3/4" RODS, 107 - 7/8" RODS, 90 - 1" RODS, 1 - 8" X 1" PONY, 3 - 2' X 1" PONY, 1 1/2" X 26' PRw/ LNR

**284 Jts, 2-7/8", 6.5#, N80**
**2-7/8" TAC (~3'); set in tension 14K**
**59 Jts, 2-7/8", 6.5#, N80, ~1100'**
**SN**
**Perf Sub**
**1 Jt MA w/ tapped bullplug**

**TAC ~ 8,885'**

**EOT ~ 10,780'**

**20' cement. 11,930' PBTD**
**CIBP @ 11,950'** *(cmpl rpt)*

**FC @ 12,626' KBM - 36' cement below FC**
**FS @ 12,662' KBM**

Inspected for Operator 4/30/2012 TAM

devon

RODSTAR-V for Windows 3.1 for Windows

Company: Devon
Well: Maljamar 15-1
Disk file: Maljamar 15-1.rsvx
Comment 1

© Theta Enterprises, Inc.
Tel: (714) 526-8878


User: Kale Jackson
Date: 9/23/2011

## INPUT DATA

| | | | |
|---|---|---|---|
| Strokes per minute: | 7 | Fluid level | |
| Run time (hrs/day): | 12.0 | (ft from surface): | 5700 |
| Tubing pres. (psi): | 150 | (ft over pump): | 200 |
| Casing pres. (psi): | 200 | Stuf.box fr. (lbs): | 100 |

**Fluid properties**

| | | | |
|---|---|---|---|
| Water cut: | 60% | Power Meter | Detent |
| Water sp. gravity: | 1.02 | Electr. cost: | $.06/KWH |
| Oil API gravity: | 38.0 | Type: | NEMA D |
| Fluid sp. gravity: | 0.9459 | | |

**Motor & power meter**

**Pumping Unit: Lufkin Conventional - New (C-912D-*)**

API size: C-912-356-144 (unit ID: CL14)

| | |
|---|---|
| Crank hole number: | #1 (out of 4) |
| Calculated stroke length (in): | 145.6 |
| Crank Rotation with well to right: | CCW |
| Max. CB moment (M in-lbs): | Unknown |
| Structural unbalance (lbs): | -650 |
| Crank offset angle (deg): | 0.0 |
| Bal. Rot. Moment of Inertia (lb-ft²): | 1450000 |
| Art. Moment of Inertia (lb-ft²): | 721776 |

**Tubing and pump information**

| | | | |
|---|---|---|---|
| Tubing O.D. (ins): | 2.875 | Upstr. rod-tbg fr. coeff: | 0.680 |
| Tubing I.D. (ins): | 2.441 | Dnstr. rod-tbg fr. coeff: | 0.680 |
| Pump depth (ft): | 5900 | Tub.anch.depth (ft): | 5492 |
| Pump condition: | Full | Pump load adj. (lbs): | 0.0 |
| Pump type: | Insert | Pump vol. efficiency: | 85% |
| Plunger size (ins): | 2 | Pump friction (lbs): | 200.0 |

**Rod string design**

| Diameter (inches) | Rod Grade | Length (ft) | Min. Tensile Strength (psi) |
|---|---|---|---|
| + 1 | Norris 97 | 1625 | 140000 |
| .875 | Norris 97 | 2225 | 140000 |
| .75 | Norris 97 | 1300 | 140000 |
| + 1 | Norris 97 | 750 | 140000 |

+ Requires slimhole couplings.
NOTE: Stress calculations do not include buoyancy effects.

## CALCULATED RESULTS

| | | | |
|---|---|---|---|
| Production rate (bfpd): | 169 | Peak pol. rod load (lbs): | 24559 |
| Oil production (BOPD): | 67 | Min. pol. rod load (lbs): | 7822 |
| Strokes per minute: | 7 | Polished rod HP: | 21.0 |
| System eff. (Motor->Pump): | 44% | Unit struct. loading: | 69% |
| Permissible load HP: | 75.5 | PRHP / PLHP | 0.29 |
| Fluid load on pump (lbs): | 7177 | Buoyant rod weight (lbs): | 12301 |
| | | N/No: .163 , Fo/SKr: .188 | |

| | |
|---|---|
| Required prime mover size (calc. speed var.: 10%) | BALANCED (Min.Torq) |
| NEMA D motor: | 50 HP |
| Single/double cyl. engine: | 40 HP |
| Multicylinder engine: | 50 HP |
| Torque analysis and electricity consumption | BALANCED (Min.Torq) |

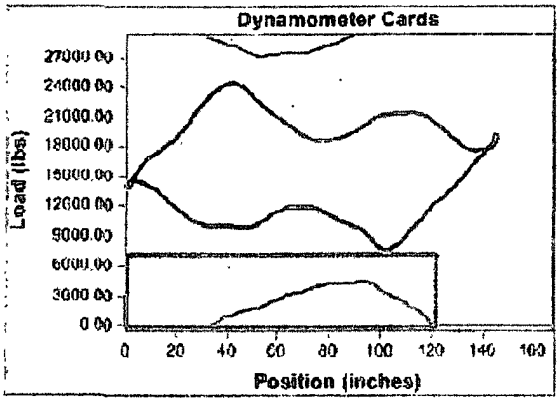
| | |
|---|---|
| Peak g'box torq.(M in-lbs): | 665 |
| Gearbox loading: | 73% |
| Cyclic load factor: | 1.6 |
| Max. CB moment (M in-lbs): | 1224.73 |
| Counterbalance effect (lbs): | 17144 |
| Daily electricuse (KWH/day): | 276 |
| Monthly electric bill: | $505 |
| Electr.cost per bbl. fluid: | $0.098 |
| Electr.cost per bbl. oil: | $0.245 |

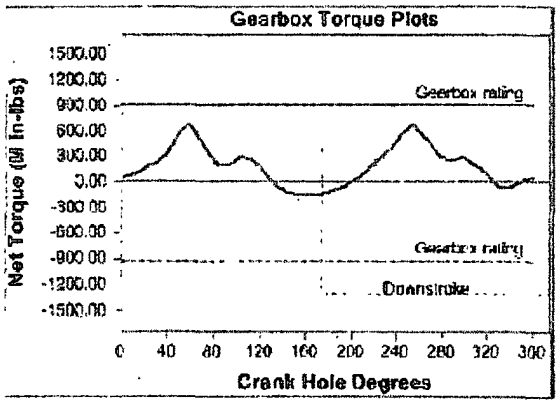
**Tubing, pump and plunger calculations**

| | |
|---|---|
| Tubing stretch (ins): | .6 |
| Prod. loss due to tubing stretch (bfpd): | 0.9 |
| Gross pump stroke (ins): | 122.2 |
| Pump spacing (in. from bottom): | 17.7 |
| Minimum pump length (ft): | 19.0 |
| Recommended plunger length (ft): | 4.0 |

**Rod string stress analysis (service factor: 0.9)**

| Stress Load % | Top Maximum Stress (psi) | Top Minimum Stress (psi) | Bot. Minimum Stress (psi) | Stress Calc. Method |
|---|---|---|---|---|
| 56% | 31292 | 9981 | 6358 | API MG T/2.8 |
| 60% | 31963 | 8055 | 3765 | API MG T/2.8 |
| 59% | 29234 | 4501 | 1901 | API MG T/2.8 |
| 27% | 12853 | 1070 | -255 | API MG T/2.8 |




Faxed per Operator
9/30/2011
TWM

**Maljamar 15 Federal 1**
**API #30-025-34549**
**Devon Energy Production Company, L.P.**
**May 3, 2012**
**Conditions of Approval**

**Operator will not be approved to transfer, assign, sell, or otherwise convey this wellbore to any other entity without addressing the plugs required for the Morrow top, the Atoka perforations, the Wolfcamp, the Abo and the DV tool which are all below the proposed RBP.**

**Operator NOI includes temporary abandonment of Atoka, Abo and Wolfcamp. Acidize and Frac Paddock.**

**Conditions of Approval:**

1. Surface disturbance beyond the originally approved pad shall have prior approval.

2. Operator to have H2S monitoring equipment on location as H2S has been reported from wells in the area.

3. **A minimum of a 5000 (5M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**

4. Step 1 – OK

5. Step 1.5a – Place 25 sx of Class H cement on the Atoka CIBP. (temporary abandonment)

6. Step 1.5b – Set a CIBP within 50' – 100' of the Wolfcamp perforations and place 25 sacks of class H cement on the CIBP. (temporary abandonment)

7. Step 1.5c – Set a CIBP within 50'-100' of the Abo perforations and place 25 sacks of Class H cement on the CIBP. (temporary abandonment)

8. Step 1.5d – Perform an MIT.

9. Steps 2 through 12 - OK

10. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over 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.

11. Completion Report and Subsequent sundry are required, detailing work done and shall include wellbore schematic.

TMM 050312