

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM-HORRS

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.

5. Lease Serial  
NM-0315712

6. If Indian, Hopi or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Devon Energy Production Company, L.P.

3a. Address

20 North Broadway, Oklahoma City, OK 73102

3b. Phone No. (include area code)

405-235-3611

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

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

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

9. API Well No.  
30-025-34549

10. Field and Pool or Exploratory Area

Paddock Maljamar Yeso West

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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomple 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 recomple 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.)

Devon Energy Production Company L. P. respectfully requests to temporarily abandon the Abo & Wolfcamp perforations and add perforations and stimulation the well in the Paddock formation as follows:

- 1) MIRU PU. Apply LOTO. Unseat pump and POOH w/rods & pump. ND wellhead, NU 5K BOP. Unset TAC. POOH w/tbg
- 2) MIRU WL. Set composite BP @ ~6510'
- 3) RIH w/slick guns and perf Lower Paddock @ 5822-28', 5834-37', 5860-64' & 5866-70' 2 SPF 60 deg phasing w/~0.43EHD 34 total holes
- 4) RIH w/10K HD pkr. Set pkr @ ~5750'. Apply 500psi to backside. RU BJ. Acidize w/3000 gal 15% HCL w/ball sealers. Flow well back.
- 5) PU 10K big bore HD pkr & set @ ~5750'. ND BOP. NU FMC frac tree.
- 6) RU BJ. Frac Lower Paddock w/110,000 gal x-link & 150,000#s of sand RD BJ. Flow well back.
- 7) RU WL. set CBP @ ~5720'. RIH w/slick guns, perf Upper Paddock @ 5584-87', 5592'-95', 5605-10', 5613-18' & 5623-30' w/0.43" EHD holes, 2 SPF, 60 deg phasing, 46 total holes.
- 8) RIH w/3 1/2" work string & big bore pkr. set pkr @ ~5500'. ND BOP. NU Frac tree. RU stinger. RU BJ. Spearhead w/5000 gal 15% HCL. Frac U Paddock w/110,000 gal x-link & 150,000#s of sand. RD BJ. Flow well back.
- 9) ND FMC tree. NU BOP. POOH laying down 3 1/2" work string.
- 10) RU air foam unit w/plug muncher mill. Drill out CBP @ 5720', continue to PBTD (6510'). CHC. POOH
- 11) RIH w/production tbg. Set TAC ~5400'. Set SN @ ~6000'. 2" pump should be run w/this well RDMO PU.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Spence Laird

Title Regulatory Analyst

Signature

Date 09/23/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

APPROVED

DEC 27 2011

/s/ Chris Walls

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD 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)

JAN 05 2012

## Maljamar 15 Fed #1

**Objective** - Temporarily TA Abo & WC. Frac the Paddock formation in two separate stages

API# - 30-025-34549  
GL - 4,074'  
TD - 13,861

Location - Lea Co. -- Sec 15-17S-32E  
KB - 4,094' (20')  
PBDT - 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		
Production	5-1/2	17	N-80	0	4680	4596	5024	6192
		17	J-55	4680	7965		3928	4256
		20	N-80	7965	12662		7064	7352
		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 from 6520-7826

### Procedure

- 1) MIRU PU. 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. Unset TAC. POOH w/ tubing. (Lay down ~4600' of pipe).
- 2) MIRU WL. Set composite BP @ ~6510'.
- 3) With 3-1/8" slick guns, perf **L. Paddock** w/ 0.43" EHD holes, 2SPF, 60° phasing as follows:

5822 - 5828

5834 - 5837

5860 - 5864

5866 - 5870

34 Total Shots

9/22/2011

- 4) RIH w/ Weatherford 10K HD treating packer. Set packer ~5750'. Apply 500psi to backside. RU BJ Services. Acidize well with 3000gal 15% HCL with ball sealers. Flow well back.
- 5) Receive ~5750' of 3-1/2 tbg for work string. RU Big Bear lay down machine. Change out pipe rams on BOP. PU Weatherford 10K big bore HD pkr & set at ~5750'. ND BOP. NU FMC frac tree. \*\*Have Stinger tree saver ready for frac.
- 6) RU BJ Services. Frac L Paddock with 110,000 gal x-link & 150,000#s of sand as per BJ proposal. RD BJ. Flow well back at 30 bbl/hr over night, increase to 60 bbl/hr until well dies or pressure drops off.
- 7) ND FMC tree. NU BOP. POOH w/ 3-1/2 work string.
- 8) RU WL. Set CBP @ ~5720'.
- 9) With 3-1/8" slick guns, perf **U. Paddock** w/ 0.43" EHD holes, 2SPF, 60° phasing as follows:

5584 - 5587

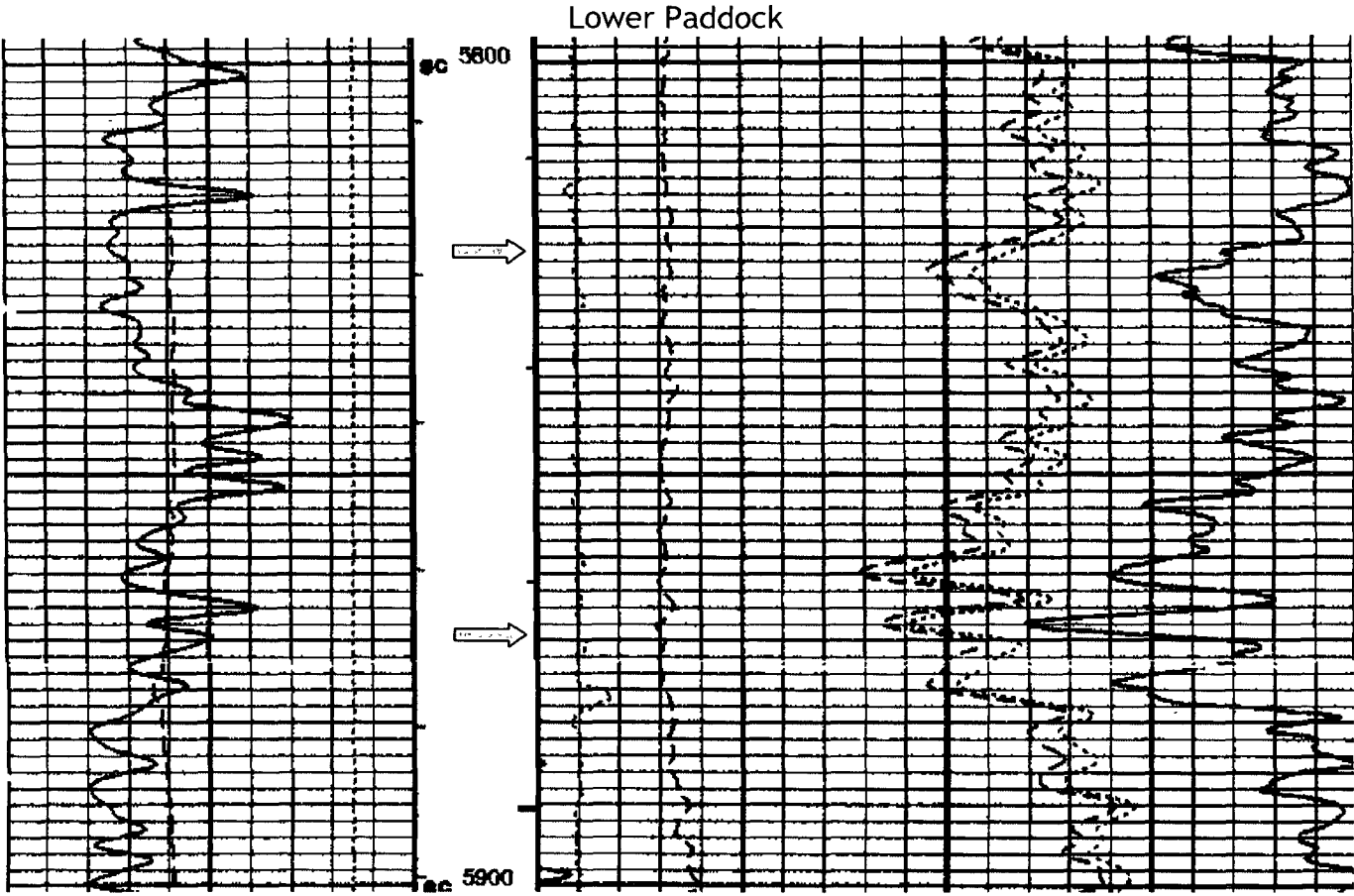
5592 - 5595

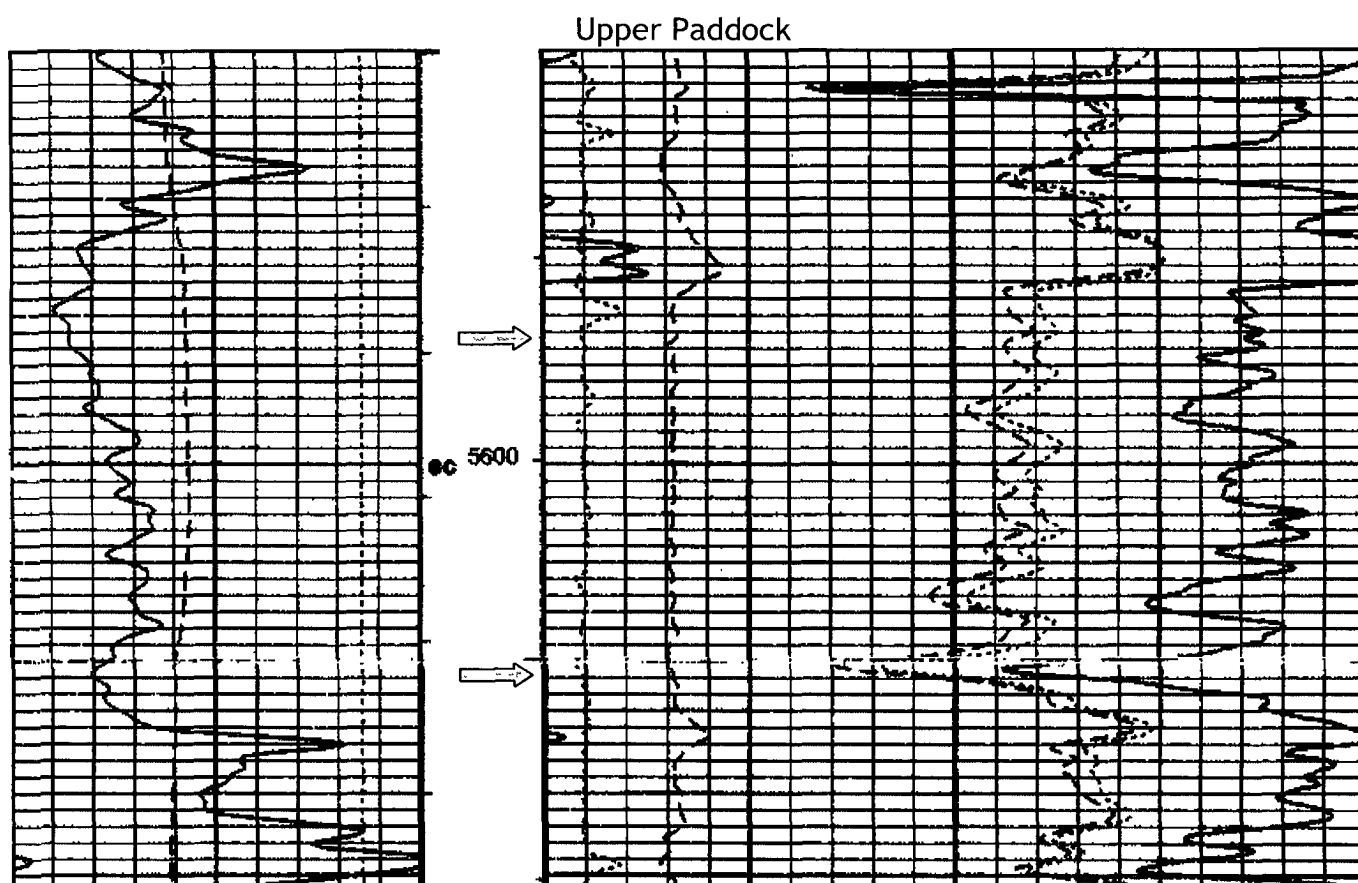
5605 - 5610

5613 - 5618

5623 - 5630

**46 Total Shots**
- 10) RIH w/ 3-1/2" work string & big bore pkr. Set packer @ ~5500'. ND BOP. NU FMC tree
- 11) RU Stinger. RU BJ services. Spearhead in w/ 5000gals 15% HCL. Frac U Paddock with 110,000 gal x-link & 150,000#s of sand as per BJ proposal. RD BJ. Flow well back at 30 bbl/hr over night, increase to 60 bbl/hr until well dies or pressure drops off.
- 12) ND FMC tree. NU BOP. POOH laying down 3-1/2 work string.
- 13) RU air foam unit. With 4-3/4" plug muncher mill, drill out CBP @ 5720'. Continue to PBTD (6510'). Circulate hole clean. POOH.
- 14) RIH w/ production tubing. Set TAC ~ 5400'. Set SN @ ~6000'. See rodstar report for new rod design. \*\*Due to COG offsetting production rates, a 2" pump should be run with this well. RDMO PU.





## RODSTAR-V for Windows 3.1 for Windows

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

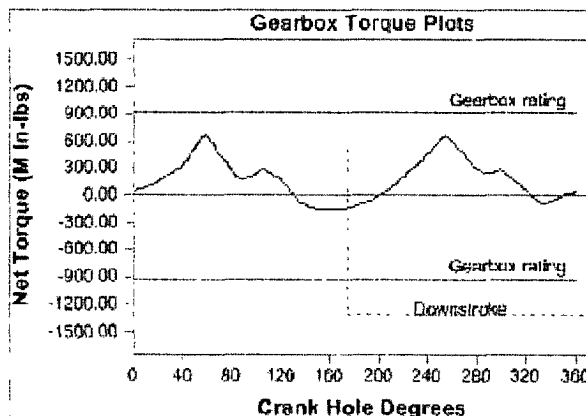
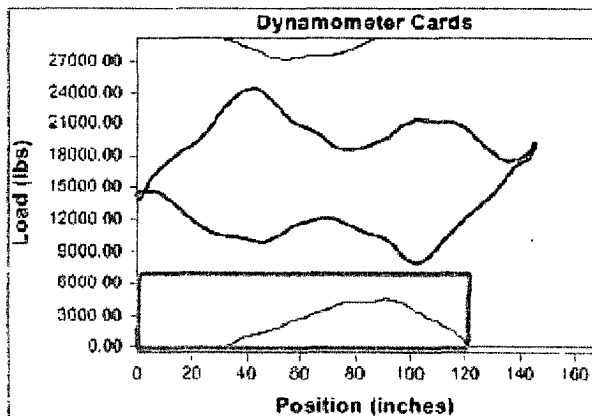
© Theta Enterprises, Inc.  
Tel: (714) 526-8878

Page 1 of 3  
User:  
Date: 5/18/2011

INPUT DATA				CALCULATED RESULTS				
Strokes per minute:	7	Fluid level		Production rate (bfpd):	188	Peak pol. rod load (lbs):	24469	
Run time (hrs/day):	12.0	(ft from surface):	5500	Oil production (BOPD):	84	Min. pol. rod load (lbs):	7889	
Tubing pres. (psi):	50	(ft over pump):	500	Strokes per minute:	7	Polished rod HP:	21.2	
Casing pres. (psi):	50	Stuf. box fr. (lbs):	100	System eff. (Motor->Pump):	42%	Unit struct. loading:	67%	
				Permissible load HP:	78	PRHP / PLHP	0.28	
				Fluid load on pump (lbs):	6920	Buoyant rod weight (lbs):	12507	
						N/No: .161	Fo/SKr: .185	
Fluid properties		Motor & power meter						
Water cut:	50%	Power Meter:	Detent	Required prime mover size (calc. speed var.: 10%)				
Water sp. gravity:	1	Electr. cost:	\$0.08/KWH					
Oil API gravity:	35.0	Type:	NEMA D					
Fluid sp. gravity:	0.9249			BALANCED (Min Torq)				
				NEMA D motor:	50 HP			
				Single/double cyl. engine:	40 HP			
				Multicylinder engine:	50 HP			
Pumping Unit: Lufkin Conventional - New (C-912D-1)				Torque analysis and electricity consumption		BALANCED (Min Torq)		
API size: C-912-385-144 (unit ID: CL13)				Peak g'box torq (M in-lbs):	656			
Crank hole number				#1 (out of 4)	Gearbox loading:	72%		
Calculated stroke length (in):				145.8	Cyclic load factor:	1.6		
Crank Rotation with well to right:				CCW	Max. CR moment (M in-lbs):	1230.14		
Max. CB moment (M in-lbs):				Unknown	Counterbalance effect (lbs):	17223		
Structural unbalance (lbs):				-650	Daily electr. use (KWH/day):	270		
Crank offset angle (deg):				0.0	Monthly electric bill:	\$494		
Bal. Rot. Moment of Inertia (lb-ft <sup>2</sup> ):				1400000	Electr. cost per bbl. fluid:	\$0.097		
Art. Moment of Inertia (lb-ft <sup>2</sup> ):				721776	Electr. cost per bbl. oil:	\$0.193		
Tubing and pump information				Tubing, pump and plunger calculations				
Tubing O.D. (ins): 2.875		Upstr. rod-tbg fr. coeff: 0.670		Tubing stretch (ins): .9				
Tubing I.D. (ins): 2.441		Dnstr. rod-tbg fr. coeff: 0.670		Prod. loss due to tubing stretch (bfpd): 1.3				
				Gross pump stroke (ins): 121.8				
Pump depth (ft): 6000		Tub. anch. depth (ft): 5400		Pump spacing (in. from bottom): 18.0				
Pump condition: Full		Pump load adj. (lbs): 0.0		Minimum pump length (ft): 19.0				
Pump type: Insert		Pump vol. efficiency: 85%		Recommended plunger length (ft): 4.0				
Plunger size (ins): 2		Pump friction (lbs): 200.0						
Rod string design (rod tapers calculated)				Rod string stress analysis (service factor: 1)				
Diameter (inches)	Rod Grade	Length (ft)	Min. Tensile Strength (psi)	Stress Load %	Top Maximum Stress (psi)	Top Minimum Stress (psi)	Bot. Minimum Stress (psi)	Stress Calc. Method
+ 1	D (API)	2025	115000	86%	31078	10222	5669	API MG
.875	D (API)	1950	115000	86%	29215	7141	3387	API MG
.75	D (API)	1525	115000	86%	27251	4017	781	API MG
+ 1	D (API)	500	115000	38%	11241	439	-255	API MG

+ Requires eliminate couplings.

NOTE: Stress calculations do not include buoyancy effects.



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 Stock	Date: 2/22/10	Rev:

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

TOC @ 4595', w/1000 psi (cbl-2/11/99)

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

DV Tool @ 6,495'

No cement noted from 6520' to 7825' (cbl-2/11/99)

ABO 8864 - 9112 (3/11)

WOLFCAMP (3/1/99)  
9770' - 9784'  
9808' - 9822'  
9/3/99 added 9770-9822 w/2250 gals 15%  
9/10/99 added 9770-9822 w/7500 gals 20%

WOLFCAMP (3/99)  
10440' - 10682'  
5560 gal 15% MEFE HCL (formal rpt)

ATOKA  
12033' - 12050

7-7/8" Hole  
5-1/2", 17#, N80, 0' - 4580'  
5-1/2", 17#, J55, 4580' - 7965'  
5-1/2", 20#, N80, 7965' - 12662'  
1st Stg 1800 sx CI H  
2nd Stg 525 sx CI C

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

309 Jts, 2-7/8", 6.5#, N80, ~9425'  
2-7/8" TAC (3)  
36 Jts, 2-7/8", 6.5#, N80, ~1100'

Rod Detail: 1-1/2" (26') PR, 1" pony rod (2'), 91 - 1" ? rods (2,275'), 107 - 7/8" ? rods (2,675'), 223 - 3/4" rods (5,575'), 10 - 1" ? rods (250'), 1" lift sub (1'), 2-1/2" x 1-1/4" x 24" RHBC-HVR pump and 1-1/4" filter sub.

EOT ~ 10529'

20' cement, 11930' PBTD  
CIBP @ 11950' (comp rpt)

13,861' TD

**Maljamar 15 Fed 1**  
**30-025-34549**  
**Devon Energy Production Co.**  
**December 27, 2011**  
**Conditions of Approval**

1. **Notify the BLM (575-393-3612) a minimum of 24 hours prior to plug back procedure.**
2. **CIBP at 11930' to have an additional 15' of Class H cmt bailed on top to meet minimum requirements, as required in previous conditions of approval.**
3. **Set CIBP above Wolfcamp perforations at 9,720' with 35' of cmt dump bailed on top.**
4. **Set CIBP above ABO perforations at 8910' with 35' of cmt dump bailed on top.**
5. **Spot a cement plug (minimum 25 sx) from 7680'-7500'. (Top of Abo)**
6. **Surface disturbance beyond the originally approved pad must have prior approval.**
7. **Closed loop system required.**
8. **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.  
5M systems shall require two independent power sources, one of which may be nitrogen bottles (three minimum) maintaining a charge equal to the manufacturer's recommendations.**
9. **Operator to have H2S monitoring equipment on location as H2S has been reported from wells in the area.**
10. **Completion report and subsequent sundry with wellbore schematic required.**

Note: Justification is required for temporarily abandonment of zones. No reason was supplied; as a result, the above plugs are required to abandon the Wolfcamp and Abo completions.

**CRW 122711**