

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

OCD Hobbs
HOBBES
DEC 06 2012
RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2.		5. Lease Serial No. 12M 0315712
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator Devon Energy Production Company, L.P.		7. If Unit of CA/Agreement, Name and/or No.
3a. Address 333 W. Sheridan, Oklahoma City, OK 73102		8. Well Name and No. Maljamar 15 Federal 1
3b. Phone No. (include area code) 405-235-3611		9. API Well No. 30-025-34549
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC15 T17S R32E SHL: 1310 FNL & 1310 FEL Unit		10. Field and Pool or Exploratory Area 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 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.)

Devon Energy Production Company, L. P. respectfully requests to TA the Abo & Wolfcamp. Acidize and Frac Paddock. H2S may be present once perforating the Paddock.

- 1) MIRU WSU. Kill well w/ 2% KCL. POOH w/ rods & pump. ND WH. NU 5K BO& test. Unset TAC & TOOH w/ tbg.
- 2) MIRU WL. Make GR in 5 1/2" csg to 8950' KBM. Set 5 1/2" csg, 20#, 10K CIBP @ 8910' KBM (Top Abo perf @ 8964'). Load w/ 2% KCL & perform MIT on 5 1/2" csg (500 psi for 30 min w/ chart). Set 5 1/2" 17#, 10K CIBP @ 6270'.
- 3) RU WL. Perf Paddock w/ 3 18" slick guns @ 5592-5869'. Total 30 shots.
- 4) RU safety services & personnel for H2S monitoring.
- 5) TIH w/ pkr & 2 7/8" tbg to 5626' KBM. Hydrotest tbg below slips to 8000 psi.
- 6) RU BHI. Test lines. Spot acid across U. Paddock perms @ 5592-5624'. Set pkr @ 5542'. Apply 500 psi to backside. Acidize w/ 3K g 15% HCL w/ BS.
- 7) Swab. Rlse pkr, drop balls off perf. TOOH w/ tbg & pkr.
- 8) Receive 5600' 3 1/2", 9.2# L80 tbg for WS. RU Big Bear. LD machine. CO pipe rams on BOP. RU 10K pkr & TIM w/ tbg (hydrotest tbg below slips to 8000 psi). Set pkr @ 5542'. ND BOP. NU FMC 3 1/2" frac tree.
- 9) RU BHI & ProTechnics & test lines. Apply 500 psi to 3 1/2" by 5 1/2" annulus (monitor during frac - keep pressure below 750 psi). Frac Stim Paddock perf. from 5592-5869'. Top surf pressure 5300 psi.
- 10) RD BHI. FWB.
- 11) TOOH. LD 3 1/2" WS. CO pipe rams on BOP back to 2 7/8".
- 12) TIH w/ NC & 2 7/8" tbg. CO to 6270' KBM PBTD. TOOH.

WITNESS
PLUG BACK

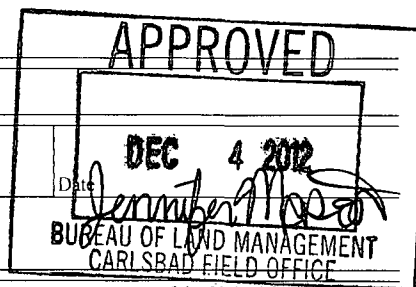
SUBJECT TO LIKE
(continued on page 2)
APPROVAL BY STATE

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Judy A. Barnett	Title Regulatory Specialist
Signature <i>Judy A. Barnett</i>	Date 07/25/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title
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.

HOBBS OCD

DISTRICT I
P. O. Box 1980
Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department
DEC 12 2012

Form C-102
Revised 02-10-94
Instructions on back

DISTRICT II
P. O. Drawer DD
Artesio, NM 88211-0719

OIL CONSERVATION DIVISION RECEIVED

P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Submit to the Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

DISTRICT III
1000 Rio Brazos Rd.
Aztec, NM 87410

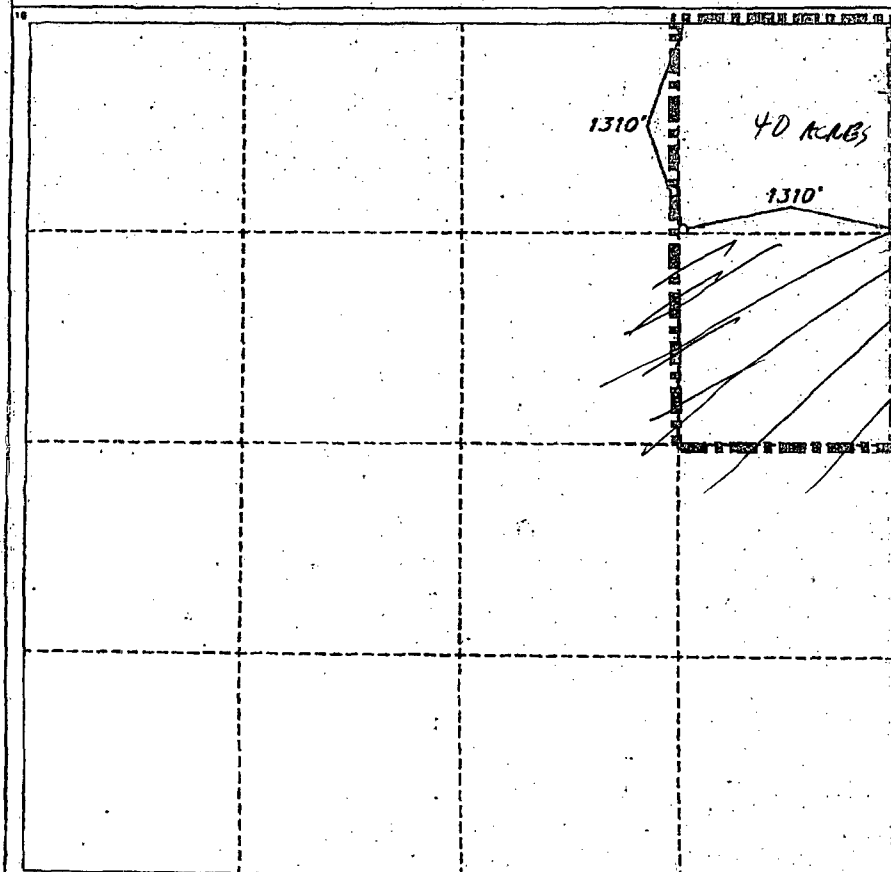
☐ AMENDED REPORT

DISTRICT IV
P. O. Box 2088
Santa Fe, NM 87507-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-34549		2 Pool Code 44500		3 Pool Name MALJAMAR; YESO WEST (PADDOCK)					
4 Property Code 23818		5 Property Name MALJAMAR '15' FEDERAL						6 Well Number 1	
7 OGRID No. 6137		8 Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.						9 Elevation 4074'	
10 SURFACE LOCATION									
UL or lot no. A	Section 15	Township 17 SOUTH	Range 32 EAST, N.M.P.M.	Lot Ida	Feet from the 1310'	North/South line NORTH	Feet from the 1310'	East/West line EAST	County LEA
11 BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE									
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 80 40		13 Joint or Infill		14 Consolidation Code		15 Order No.			

* NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
D.H.

David H. Cook

Regulatory Specialist

Date
12/12/12

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

SEPTEMBER 12, 2012

Signature of Professional Surveyor

Professional Surveyor
ROGER M. ROBBINS
12128
REGISTERED PROFESSIONAL SURVEYOR
NEW MEXICO
Certificate No. 12128

Page 2 (continued procedure)

13) RU Pro Technics & slickline co. w/ full lubricator. Run SpectraScan log per Pro Technics recommendation. RD Pro Technics & slickline co.

14) TIH w/ production tbg. Set TAC ~ 5,492'. Set SN @ ~5,890'. Run 28' sand screen on bottom. See rodstar report for new rod design.**Due to COG offsetting production rates, a 2" pump should be run w/ well w/ Stanley filter. RDMO WSU and all rentals.

15) Initiate a corrosion inhibitor program if H2S was detected.

Note: Plans are to pump test the Paddock recompletion in the Maljamar 15 Fed #1 for 6 months.

At the 6 month point, if desired and allowed, the production from the Paddock will then be commingled with the ABO & Wolfcamp. If commingling is not allowed or desired, then BLM & Partner approvals/conditions will be sought to either

Cement squeeze the Paddock & return the well to production in the ABO/Wolfcamp only
OR

Permanently plugback the well below the Paddock and then produce the well from the Paddock only.

The Paddock interval is located within the Glorieta formation. The Glorieta top is listed @ 5,500' with the base being located at 6,922' (which is the top of the Tubb).



Recompletion- Paddock

Ron Hays
Engineer
405.552.8150

Maljamar 15 Fed #1

AFE # 202387

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

API# - 30-025-34549

GL - 4,074'

TD - 13,861'

Location - Lea Co. -- Sec 15-17S-32E

KB - 4,094' (20')

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		
Production	5-1/2	17	N-80	0	4,680	4596	5,024	6,192
		17	J-55	4,680	7,965		3,928	4,256
		20	N-80	7,965	12,662		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

Procedure: Please note BLM's COA and required BLM notifications/witnessing.

- 1) MIRU WSU. Apply LOTO. Set pipe racks. Kill well w/ 2% KCL if necessary. Unseat pump. TOH w/ rods and pump. ND WH. NU 5K BOP (See BLM's COA). Test BOP to Devon - *See COA* specifications. Unset TAC. TOH w/ tubing.
- 2) MIRU WL Services with full lubricator. Test lubricator to Devon specifications. Make GR run in 5-1/2" casing to 8,950' KBM (note csg wt change depths in table).
 - Set a 5-1/2", 20#, 10K CIBP @ 8,910' KBM (Top ABO perf @ 8,964').
 - Load 5-1/2" casing with 2% KCL and perform an MIT on 5-1/2" csg (500 psi for 30 min w/chart).
 - If ok, set 5-1/2", 17#, 10K CIBP @ 6,270'. If not contact OKC Engineering.

7/18/2012



Maljamar 15 Fed 1 – Procedure Cont.

- 3) RU WL with full lubricator. Test Lubricator to Devon specifications. Perf Paddock w 3-1/8" slick guns 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

- 4) RU safety services and personnel for H2S monitoring.
- 5) TIH w/ Weatherford 10K HD treating packer & 2-7/8" tbg to 5,626' KBM. Hydrotest 2-7/8" tubing below slips to 8,000 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 bio ball sealers. Shut well in for one hour. Flow back well until it dies.
- 7) Swab test well to determine oil cut. Notify Engineering of results. If ok, unset packer; drop down to knock any balls off perfs to bottom. TOH w/ tubing & packer.
- 8) 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 and TIH W/ 3-1/2" tbg (hydrotest 3-1/2" 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.**
- 9) RU BHI and ProTechnics. Test lines. Apply 500 psi to 3-1/2" by 5-1/2" annulus (monitor annulus during frac - keep annulus pressure below 750 psi). Frac Stim Paddock perfs from 5,592' - 5,869' per BJ proposal 690850608B. **Top surface pressure 5,300 psi.** (Will need 20 frac tanks of fresh water for frac). **Note: Tag frac with tracer material per Pro Technics recommendation.**

Frac general info:

40 BPM

Note: Frac gradient could be between 0.84 to 0.97 psi/ft

2,000 gals 15% HCL Acid

254,000 gals MaxPerm 20 (3 gpt)

125,000 gals Slick Water

156,000 lbs Sand, White, 40/70 (0.1 - 2 ppg)

15,000 lbs Sand, White 100 mesh (0.5 - 1 ppg)

(Record average treating pressure, rates and job load along with ISIP, 5, 10 & 15 minute readings).SWI

Maljamar 15 Fed 1 – Procedure Cont.

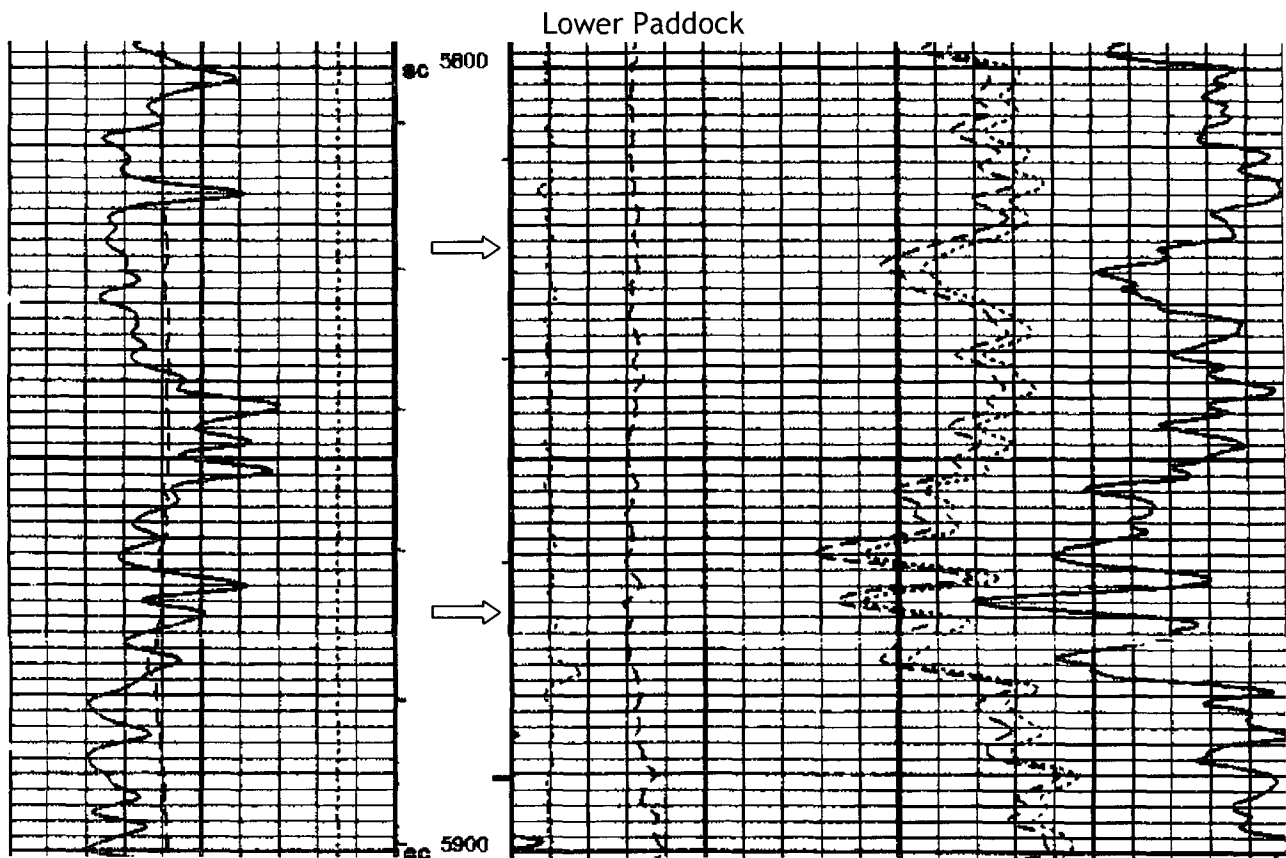
- 10) RD BHI. Flow well back at 30 bbl/hr for a minimum of 12 hrs (or longer if needed - overnight) and then start increasing to a maximum of 60 bbl/hr until well dies. Make sure any solids are captured in a half tank for ease of removal at a later date (if on site storage is necessary). Have Pro Technics check flow back before removal of any solids from location. Watch for sand in surface samples and reduce flowback if excessive sand is noted.
- 11) TOH laying down 3-1/2" work string. Change out pipe rams on BOP back to 2-7/8".
- 12) TIH with notched collar and 2-7/8" tubing. Clean out well to 6,270' KBM PBTD. TOH
- 13) RU Pro Technics & slickline co. with full lubricator. Run SpectraScan log per Pro Technics recommendation. RD Pro Technics and slickline co.
- 14) TIH 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.
- 15) Initiate a corrosion inhibitor program if H2S was detected.

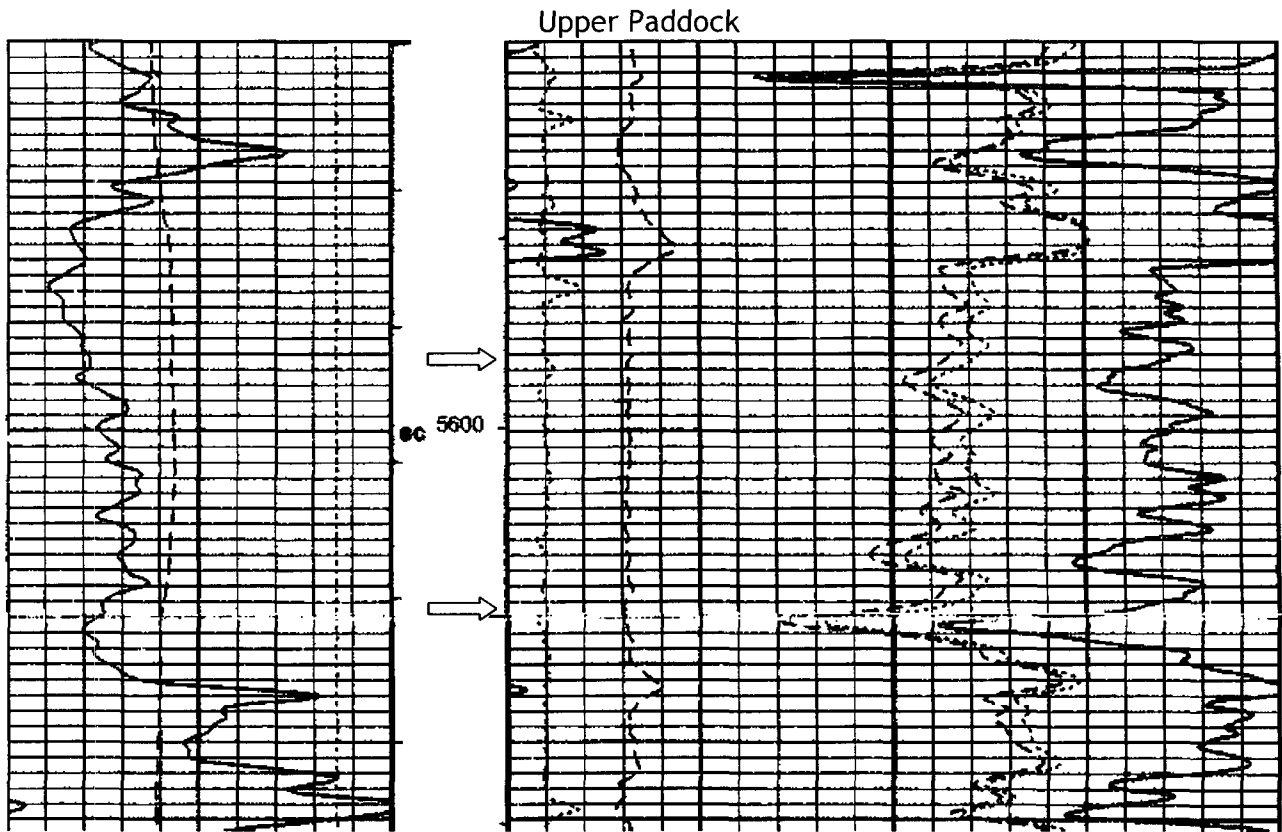
Note: Plans are to pump test the Paddock recompletion in the Maljamar 15 Fed #1 for 6 months.

At the 6 month point, if desired and allowed, the production from the Paddock will then be commingled with the ABO & Wolfcamp. If commingling is not allowed or desired, then BLM & Partner approvals/conditions will be sought to either

- Cement squeeze the Paddock and return the well to production in the ABO/Wolfcamp only OR
- Permantely plugback the well below the Paddock and then produce the well from the Paddock only.

The Paddock interval is located within the Glorieta formation. The Glorieta top is listed @ 5,500' with the base being located at 6,922' (which is the top of the Tubb).





RODSTAR-V for Windows 3.1 for Windows

Company: Devon
Well: Malljamar 15-1
Disk file: Malljamar 15-1.rsvx
Comment: Bad ass engineer

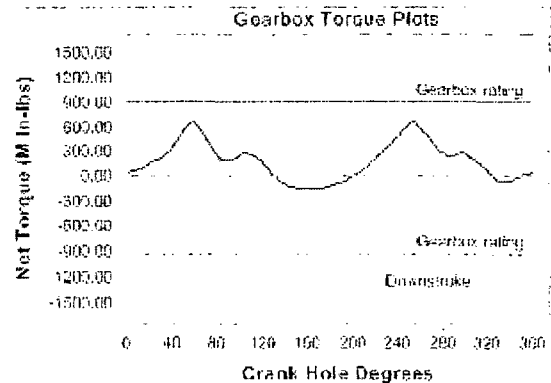
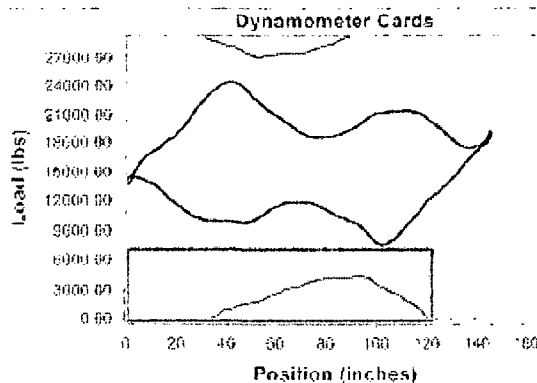
© Theta Enterprises, Inc.
Tel: (714) 526-8878

Page 1 of 3
User: Kale Jackson
Date: 9/23/2011

INPUT DATA				CALCULATED RESULTS				
Strokes per minute:	7	Fluid level		Production rate (bfpd):	189	Peak pol. rod load (lbs):	24559	
Run time (hrs/day):	12.0	(ft from surface):	5700	Oil production (BOFD):	87	Min. pol. rod load (lbs):	7622	
Tubing pres. (psi):	150	(ft over pump):	200	Strokes per minute:	7	Polished rod HP:	21.8	
Casing pres. (psi):	200	Stui.box fr. (lbs):	100	System eff. (Motor->Pump):	44%	Unit struct. loading:	88%	
				Permissible load HP:	75.5	PRHP / PLHP	0.29	
				Fluid load on pump (lbs):	7177	Buoyant rod weight (lbs):	12301	
						N/Nc: .183	Fo/SKr: .158	
Fluid properties		Motor & power meter						
Water cut:	60%	Power Meter Detent:		Required prime mover size		BALANCED		
Water sp. gravity:	1.02	Electr. cost: \$/KWH		(calc. speed var.: 10%)		(Min Torq)		
Oil API gravity:	35.0	Type:	NEMA D					
Fluid sp. gravity:	0.8450			NEMA D motor:		50 HP		
				Single/double cyl. engine:		40 HP		
				Multicylinder engine:		50 HP		
Pumping Unit: Lufkin Conventional - New (C-912D-*)				Torque analysis and electricity consumption		BALANCED		
						(Min Torq)		
API size: C-912-356-144 (unit ID: CL14)								
Crank hole number: #1 (out of 4)				Peak g'box torq. (M in-lbs):		665		
Calculated stroke length (in): 145.5				Gearbox loading:		73%		
Crank Rotation with well to right: CCW				Cyclic load factor:		1.6		
Max. CB moment (M in-lbs): Unknown				Max. CR moment (M in-lbs):		1224.73		
Structural unbalance (lbs): -650				Counterbalance effect (lbs):		17144		
Crank offset angle (deg): 0.0				Daily electr. use (KWH/day):		276		
Bal. Rot. Moment of Inertia (lb-ft²): 1450000				Monthly electric bill:		\$505		
Art. Moment of Inertia (lb-ft²): 721776				Electr. cost per bbl. fluid:		\$0.098		
				Electr. cost per bbl. oil:		\$0.245		
Tubing and pump information				Tubing, pump and plunger calculations				
Tubing O.D. (ins): 2.875		Upstr. rod-tbg fr. coeff: 0.680		Tubing stretch (ins):		.6		
Tubing I.D. (ins): 2.441		Dnstr. rod-tbg fr. coeff: 0.680		Prod. loss due to tubing stretch (bfpd):		0.9		
				Gross pump stroke (ins):		122.2		
Pump depth (ft): 5000		Tub. anch. depth (ft): 5402		Pump spacing (in. from bottom):		17.7		
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 string stress analysis (service factor: 0.0)				
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	Norris 97	1025	140000	56%	31292	9981	6358	API MG T12.8
.875	Norris 97	2225	140000	60%	31963	8055	3705	API MG T12.8
.75	Norris 97	1300	140000	59%	29234	4501	1901	API MG T12.8
1	Norris 97	750	140000	27%	12853	1070	-255	API MG T12.8

* Requires estimate 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 Slack	Date: 2/22/10	Rev: 7/10/2012 Derek B

Current Status 7-10-2012

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 rpt)

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

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' PBD

CIBP @ 11,950' (cmpl rpt)

FC @ 12,626' KBM - 36' cement below FC

FS @ 12,662' KBM

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

13,861' TD

Conditions of Approval

Devon Energy Production Company, L.P.

Maljamar 15 Federal 1

API 3002534549

December 04, 2012

Operator will not be approved to transfer, assign, sell, or otherwise convey this wellbore to any other entity without addressing the permanent plugs required for the Wolfcamp top, the Abo top and the DV tool.

1. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00 a.m. through 3:00 a.m. for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Johnny Chopp <jchopp@blm.gov> 575.234.2227 or Bob Ballard <bballard@blm.gov> 575.234.5973.
2. A new "Well Location and Acreage Dedication Plat" (NMOCD Form C-102) is required with the notice of intent package when recompleting to another formation.
3. Notify BLM 575-393-3612 Lea Co. a minimum of 24 hours prior to commencing plug back procedures. The procedures are to be witnessed. If no answer, leave a voice mail with the API#, workover purpose, and a call back phone number. Note the contact, time, and date in your subsequent report.
4. Surface disturbance beyond the existing pad shall have prior approval.
5. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
6. Functional H₂S monitoring equipment shall be on location.
7. A minimum of 5000(5M) BOPE is 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 (5M) 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.
8. All waste (i.e. 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.

9. **Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record of 02/11/1999.**
10. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
11. **The BLM PET witness is to run tbg tally and agree to cement placement. Sample each plug for cement curing time and tag and/or pressure test as requested by BLM-PET witness.**
12. There is no record in this office that the retrievable bridge plug set at 9242' was removed. The operator may want to verify.
13. **Prior to Step 2 of 07/25/2012 NOI: Tag CIBP at 11,950' and place a minimum of a 25 sack Class H neat cement plug. Sample the cement slurry for weight and set up time.**
14. **CIBP at 6,270' – approved as written.**
15. **NOTE: When permanently abandoned, operator shall drill out the CIBP at 6,270' and then set a plug at the top of the Wolfcamp, top of Abo, and across the DV tool at 6,505' before plugging the upper portion of the hole.**
16. **After setting the top plug and before perforating, perform a BLM-PET witnessed (charted) casing integrity test of 500 psi. The 5 ½", 17#, J55 casing installed at this depth would not be approved for installation by this office because of its burst safety factor. Pressure leakoff may require remediation prior to continuing with procedure. Include a copy of the chart in the subsequent sundry for this workover.**
17. The operator shall tag fracture material with a tracer and run a tracer survey to verify that the fracture material is not placed out of zone. Results of the tracer to be reported on the workover subsequent sundry Form 3160-5.
18. File a **subsequent sundry** Form 3160-5 within 30 days of the plug back and acid treatment. Include an updated wellbore diagram. File the subsequent sundry for the frac separately if it is delayed as much as 20 days.
19. Submit the BLM Form 3160-4 **Completion Report** within 30 days of the date all BLM approved procedures are complete.
20. Workover approval is good for 90 days (completion to be within 90 days of approval). A detailed justification is necessary for extension of that date. \
21. **Prior to commingling the Abo/Wolfcamp operator shall submit a sundry for down hole commingle.**

PRS / JAM 120412