Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.

HOBBS OCD

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

APR 30 2013

RECEIVED

5. Lease Serial No.
NMNM53239

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
SHINNERY 1 FEDERAL 01

2. Name of Operator
DEVON ENERGY PRODUCTION CO. LP

Contact: ERIN L WORKMAN
E-Mail: ERIN.WORKMAN@DVN.COM

9. API Well No.
30-025-30627

3a. Address
333 WEST SHERIDAN AVENUE
OKC, OK 73102

3b. Phone No. (include area code)
Ph: 405-552-7970

10. Field and Pool, or Exploratory
YOUNG; NORTH BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 1 T18S R32E 1750FSL 990FEL

11. County or Parish, and State
LEA COUNTY, NM

12. CHECK 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
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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, LP respectfully requests to abandon the 1st & 2nd Bone Spring Lime, to recomplete to the Queen with the following procedure:

SUBJECT TO LIKE APPROVAL BY STATE

1) MIRU PU. POOH w/ rods & pmp. ND WH. NU 5K BOP. Unset TAC & POOH w/ tbg.
2) RIH w/ CIBP & Set @ ~ 6700?. Tst to 500psi 10min. Spot 35? class H cement plug.
3) PUH and spot cmt. plg. across Bone Spring top (6228?). Spot 100ft class H cement plug across top. PUH.
4) PT csg. 3500psi, 15min. RU WL. Perf as follows: 4061?-4069?; 4074?-4078?; 4085?4090? @ 2 spf: TOTAL 34 shots.
5) PU pkr. RIH tbg to 5800psi below slips. Set pkr at ~4000? and Tst to 1500psi. MIRU BHI. Acidize w/ 2,500g 15% HCL w/ BS. RDMO BHI. RIH w/

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Plat still says Bone Springs

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

Electronic Submission #198860 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO.,LP, sent to the Hobbs

Name *(Printed/Typed)* ERIN L WORKMAN — Title REGULATORY COMPLIANCE ASSOC.

Signature (Electronic Submission) — Date 02/13/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED
APR 26 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

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

MAY 15 2013

Additional data for EC transaction #198860 that would not fit on the form

32. Additional remarks, continued

swab.
6) MIRU BHI & Frac based on BHI proposal. RDMO BHI.
7) FWB. Unset pkr & POOH.
8) RIH w/ tbg, TAC @ 3960?, blast sub, SN @ 4200, & BP.
9) RIH with pump & rods. LH & Tst. RDMO PU. TOP

Thank You!

HOBBS OCD

APR 3 0 2013

RECEIVED

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Depar .t

Form C-102
Revised 1-1 89

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
Devon Energy Production Company, LP	Shinnery 1 Federal	1

Unit Letter	Section	Township	Range	County
I	1	18 South	32 East NMPM	Lea

Actual Footage Location of Well:
1750 feet from the South line and 990 feet from the East line

Ground level Elev.	Producing Formation	Pool	Dedicated Acreage:
3905.7	Young, North	Bone Spring	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

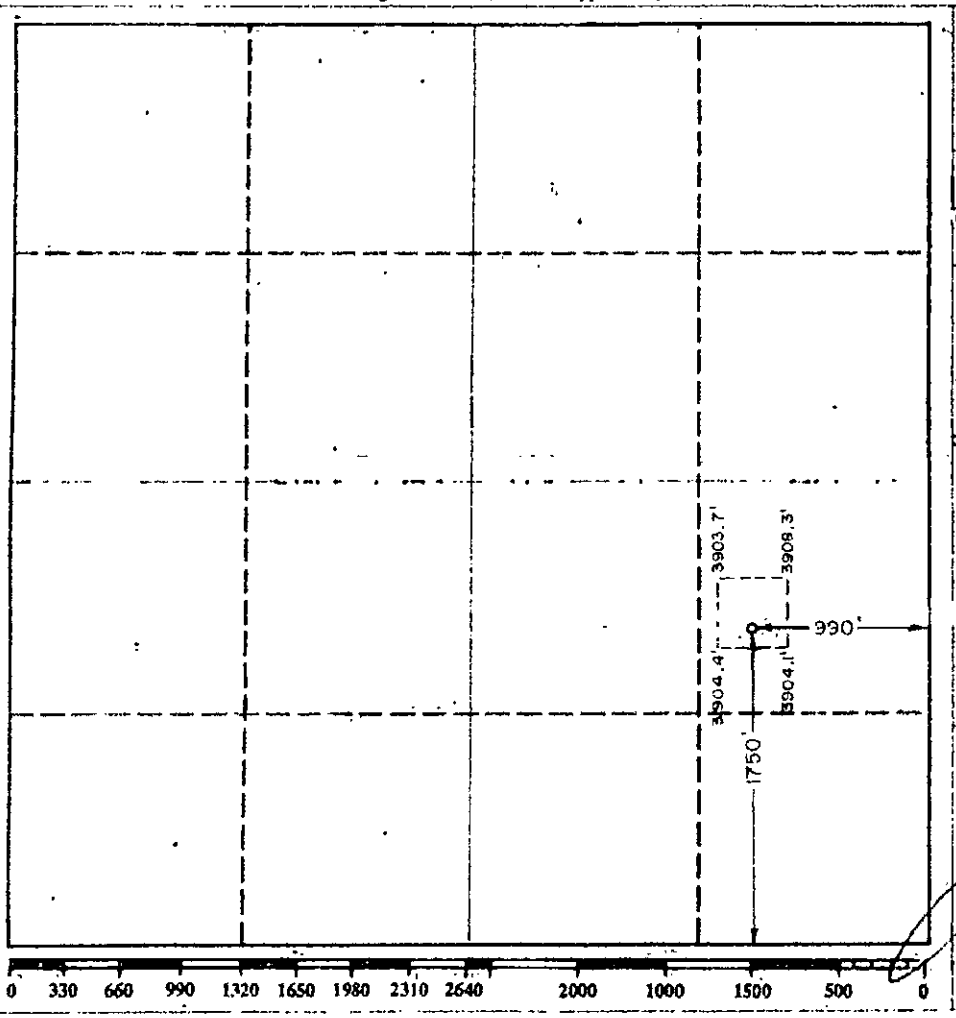
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes ☐ No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary. _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature: Erin L Workman

Printed Name: Erin L. Workman

Position: Regulatory Compliance Associate

Company: Devon Energy Production Co.,LP

Date: 04/19/13

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 supervison, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: April 27, 1989

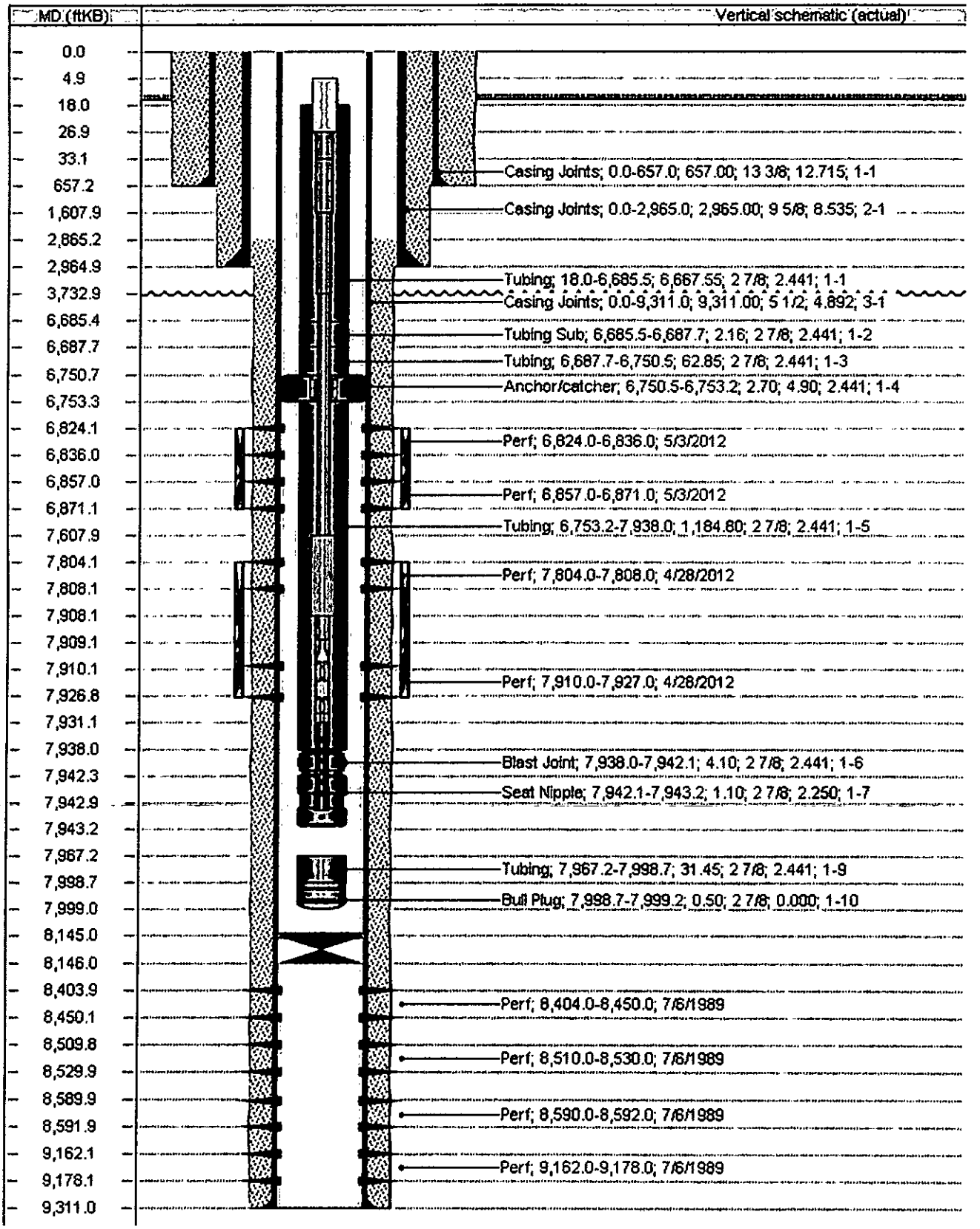
Signature & Seal of Professional Surveyor

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR NEW MEXICO JOHN W. WEST

Certificate No. JOHN W. WEST 676, RONALD J. EIDSON 3239

devon

SCHEMATIC



devon

RODSTAR-V 3.4.0
(c) Theta Oilfield Services, Inc. (www.gotheta.com)

Company: DVN
Well: Shinnery 1-1
Disk file: SHINNERY 1-1.rsvx
Comment: BAE

User: Kale Jackson
Date: 1/31/2013

INPUT DATA

Strokes per minute:	6	Fluid level	
Run time (hrs/day):	24.0	(ft from surface):	4200
Tubing pres. (psi):	50	(ft over pump):	0
Casing pres. (psi):	50	Stuf.box fr. (lbs):	100
		Pol. Rod Diam: 1.5"	

Fluid properties

Water cut:	70%
Water sp. gravity:	1
Oil API gravity:	39.0
Fluid sp. gravity:	0.949

Motor & power meter

Power Meter Detent
Electr. cost: $.08/KWH
Type: NEMA D

Pumping Unit: Lufkin Conventional - New (C-228D-24")

API size: C-228-246-86 (unit ID: CL69)

Crank hole number	#1 (out of 4)
Calculated stroke length (in):	86.6
Crank Rotation with well to right:	CCW
Max. CB moment (M in-lbs):	Unknown
Structural unbalance (lbs):	800
Crank offset angle (deg):	0.0

Tubing and pump information

Tubing O.D. (ins)	2.875	Upstr. rod-tbg fr. coeff:	0.720
Tubing I.D. (ins):	2.441	Dnstr. rod-tbg fr. coeff:	0.720
Pump depth (ft):	4200	Tub.anch.depth (ft):	3960
Pump condition:	Full	Pump load adj. (lbs):	0.0
Pump type:	Tubing	Pump vol. efficiency :	85%
Plunger size (ins)	1.5	Pump friction (lbs):	200.0

Rod string design (rod tapers calculated)

Diameter (inches)	Rod Grade	Length (ft)	Min. Tensile Strength (psi)
0.75	D (API)	3200	115000
+ 1	D (API)	1000	115000

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

CALCULATED RESULTS (TOTAL SCORE: 81% Grade: B)

Production rate (bfpd):	103	Peak pol. rod load (lbs):	11995
Oil production (BOPD):	31	Min. pol. rod load (lbs):	5416
Strokes per minute:	6	MPRL/PPRL	0.452
System eff. (Motor->Pump):	41%	Unit struct. loading:	49%
Permissible load HP:	18	PRHP / PLHP	0.28
Fluid load on pump (lbs):	3050	Buoyant rod weight (lbs):	7158
Polished rod HP:	4.9	N/No: .081 , Fo/SKr:	.118

Required prime mover size (speed var. not included)	BALANCED (Min Ener)	BALANCED (Min Torq)
NEMA D motor:	10 HP	10 HP
Single/double cyl. engine:	10 HP	10 HP
Multicylinder engine:	10 HP	10 HP

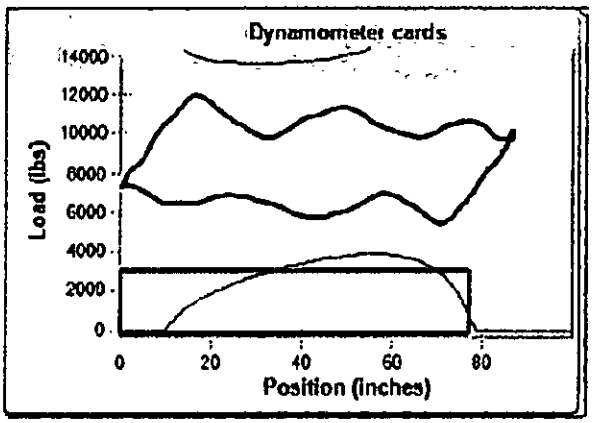
Torque analysis and electricity consumption	BALANCED (Min Ener)	BALANCED (Min Torq)
Peak g'box torq.(M in-lbs):	166	157
Gearbox loading:	73%	68.7%
Cyclic load factor:	1.5	1.5
Max. CB moment (M in-lbs):	334.0	347.46
Counterbalance effect (lbs):	8954	9282
Daily electr.use (KWH/day):	130	133
Monthly electric bill:	$238	$243
Electr.cost per bbl. fluid:	$0.076	$0.077
Electr.cost per bbl. oil:	$0.253	$0.258

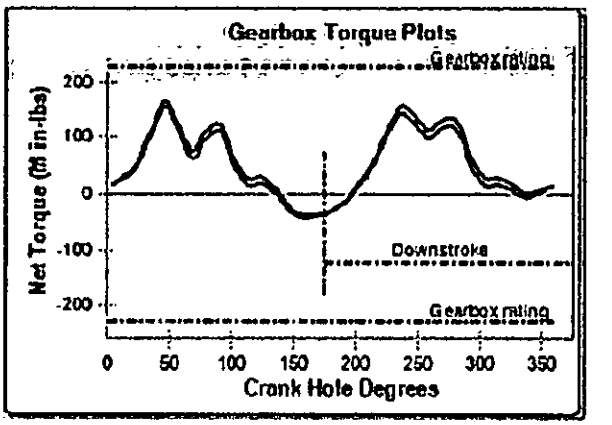
Tubing, pump and plunger calculations

Tubing stretch (ins):	.2
Prod. loss due to tubing stretch (bfpd):	0.2
Gross pump stroke (ins):	77.1
Pump spacing (in. from bottom):	12.6
Minimum pump length (ft):	12.0
Recommended plunger length (ft):	3.0

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
74%	27174	12735	3853	API MG
24%	8107	2167	-256	API MG



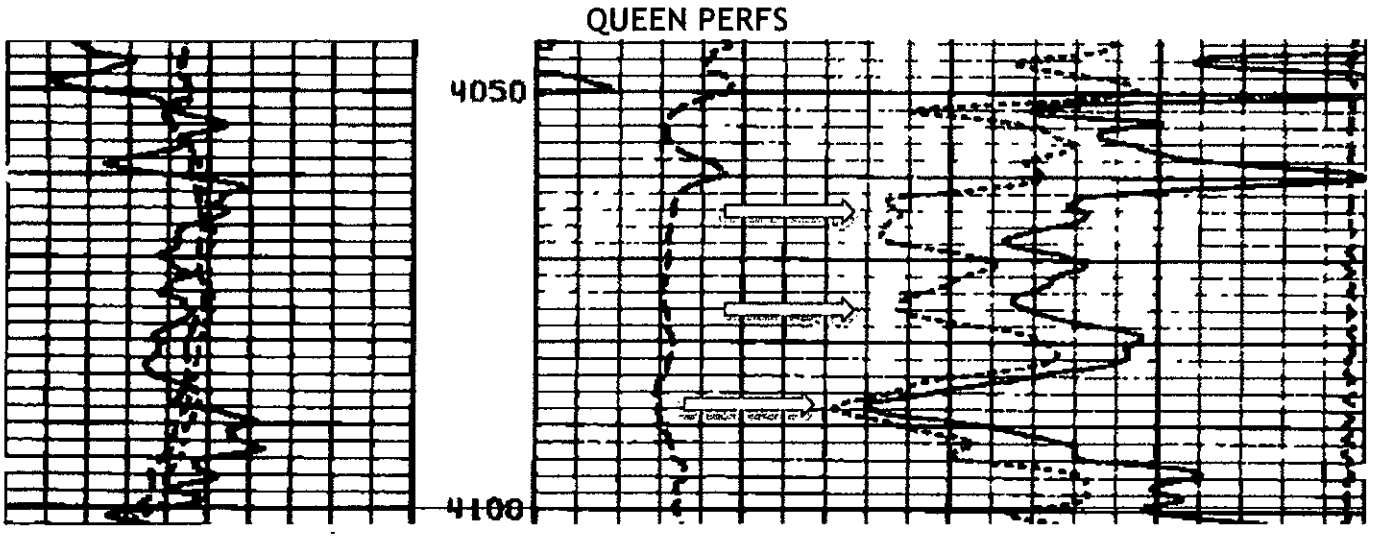


devon

Recompletion - Queen

Kale Jackson
Engineer
575.513.8236

Shinnery 1 Fed #1



FORMATION TOPS FOR PLUG BACK

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
	0	585	surf rock & sh
	585	900	red bed
	900	2690	salt & anhy
	2690	2971	anhy
	2971	3745	anhy, sh, dolo
	3745	4540	anhy, dolo, sd
	4540	5675	dolo
	5675	6167	dolo, sh
	6167	6582	dolo
	6582	6992	lime
	6995	7516	ch, lm
	7416	7873	lime
	7873	8200	dolo
	8200	8404	dolo, sh
	8404	8672	dolo, sd
	8672	9000	dolo, sh, sd
	9000	9312	ch, dolo

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Rustler	1350	
Yates	2800	
7 Rivers	3235	
Queen	4050	
Bone Spring	6228	
1st BS Sd	7939	
2nd BS Sd	8698	
3rd BS Carbonate	9111	

Shinnery 1 Federal 1
30-025-30627
Devon Energy Production Co.
April 26, 2013
Conditions of Approval

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by July 26, 2013.

1. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am 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. Functional H_2S monitoring equipment shall be on location.
3. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
4. Subject to like approval by the New Mexico Oil Conservation Division.
5. Notify BLM 575-200-7902 before 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. If there is no response, 575-361-2822. Note the contact, time, & date in your subsequent report.
6. Surface disturbance beyond the originally approved pad must have prior approval.
7. 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.
8. A minimum of 2,000 (2M) BOPE shall 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.
9. 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.
10. 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 (WOC time of 4 hours recommended) as requested by BLM PET witness.

11. Class H > 7,500' & Class C < 7,500') cement plugs(s) will be necessary. The minimum pumped volume of 25 sacks of cement slurry is to exceed a 100' cement plug across the drilled wellbore. Add 10% to the 100' slurry volume for each 1,000' of plug depth when calculations indicate the need. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is recommended. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft^3/sx, 6.3gal/sx water and "H" to be mixed 15.6#/gal, 1.18ft^3/sx, 5.2gal/sx water.
12. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
13. **The operator place CIBP at 6770'. Dump bail 35' of neat class C cement on top. Tag required.**
14. **Operator shall place a balanced cement plug of neat class C cement from 6282'-6120' to seal off the Bone Springs formation. Tag required.**
15. **Prior to recompletion work, operator shall pressure test casing to 3,500 psi as proposed by operator. Submit results to the BLM.**
16. File intermediate **subsequent sundry** Form 3160-**5** within 30 days of any interrupted workover procedures and a complete workover subsequent sundry. File the subsequent sundry for the frac separately if it is delayed as much as 20 days.
17. Submit the BLM Form 3160-**4 Completion Report** within 30 days of the date all BLM approved procedures are complete. **Include all formation tops.**
18. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.
19. Submit evidence to support your determination that the well has been returned to active "beneficial use" for BLM approval on the Sundry Notice Form 3160-5 (the original and 3 copies) before 05/10/2013.
20. Should "beneficial use" not be achieved submit for BLM approval a plan for plug and abandonment.

JAM 042613

HOBBS OCD

MAY 0 6 2013

RECEIVED

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Depa

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	Lease	Well No.
Devon Energy Production Company, LP	Shinnery 1 Federal	1

Unit Letter	Section	Township	Range	County
I	1	18 South	32 East NMPM	Lea

Actual Footage Location of Well:
1750 feet from the South line and 990 feet from the East line

Ground level Elev.	Producing Formation	Pool	Dedicated Acreage:
3905.7	13280 Corbin	Queen	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

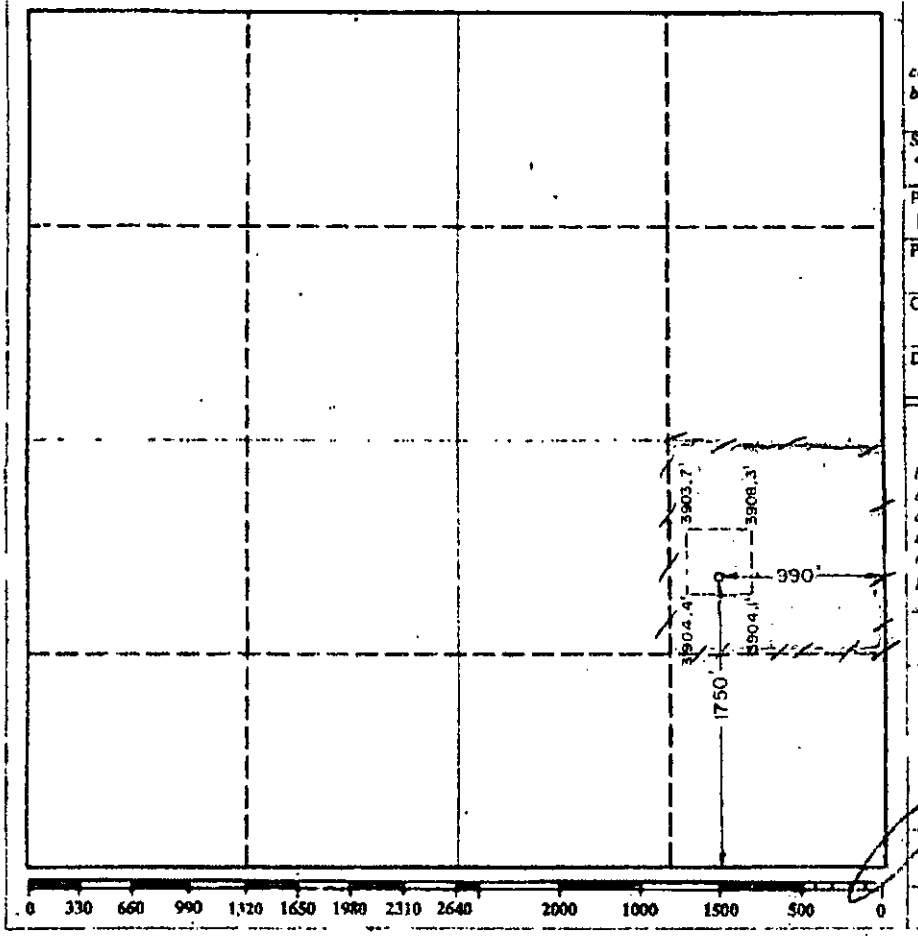
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

☐ Yes ☐ No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary. _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature: Erin L Workman

Printed Name: Erin L. Workman

Position: Regulatory Compliance Associate

Company: Devon Energy Production Co.,LP

Date: 04/19/13

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 supervison, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: April 27, 1989

Signature & Seal of Professional Surveyor

REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR NEW MEXICO JOHN W. WEST

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239