Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 3 2015
RECEIVED

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NMNM99040

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM106829

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

8. Well Name and No.
RANGER 17 FED COM 3

2. Name of Operator
DEVON ENERGY PRODUCTION CO EMail: linda.good@dvn.com
Contact: LINDA GOOD

9. API Well No.
30-015-31536-00-S1

3a. Address
333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)
Ph: 405.552.6558

10. Field and Pool, or Exploratory
W LUSK

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 17 T19S R31E NENE 860FNL 660FEL

11. County or Parish, and State
EDDY 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 Co., L.P. respectfully requests permission to recomplete this well per the attached procedure.

Please disregard the Sundry Notice filed on 4/1/2015, EC #296913.

Attachments: Procedure, Current WBD & Proposed WBD.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Accepted for record
NMOCD
CD 8/13/15 PROVIDE C-102

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

Electronic Submission #310606 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 07/29/2015,(15JAS0462SE)

Name *(Printed/Typed)* LINDA GOOD — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 07/29/2015

APPROVED
JUL 29 2015
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 _____

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Ranger 17 Fed Com 3
BSSS (1&3) Recompletion
WBS#: XX-XXXXX.XX

Objective - PA the Morrow; DFIT, recomplete and stimulate, tracer log BSSS and LBC.

API# - 30-015-31536
GL - 3,475'
TD - 12,290'

Location - Eddy Co.--Sec 17-19S-31E
KB - 3,491' (16')
PBTD - 12,281' (960 SX)

Lat: 32 Deg 39' 54.509" N
Long: 103 Deg 53' 4.452" W

Casing	OD	ID	Drift	WT/FT	Grade	Top	Bottom	TOC	Collapse (psi, 100%)	Burst (psi, 100%)
Surface	13-3/8"	12.175"	12.559"	48	H-40	16'	460'	Surface	770	1,730
Intermediate	8-5/8"	7.921"	7.796"	32	J-55	16'	4,061'	Surface	2,530	3,930
Production	5-1/2"	4.892"	4.767"	17	N-80/S95	16'	12,290'	6,120	6,280	7,740
Prd Tbg	2-7/8"	2.441"	2.347"	6.5	L-80	16'	11,868'	-	11,170	10,570

NOTE: CONFIRM TBG MAKE WHEN PULLING – INCONSISTENT RECORDS

- Current perforations: 11,906'-12,012' (Morrow)
- Expected TOC (CBL Survey 5/1/2001) -6,120'
- Current BHA (top to bottom)
  - 375 jts 2-7/8" 6.5# L-80
  - TAC
  - 10 jts 2-7/8" 6.5# L-80
  - 2.5" SN
- Production Facility: Ranger 17 Federal 3 Oil - No Shared Wells

Safety: All personnel will wear hard hats, safety glasses with side shields and steel toed boots while on location. Assess wellhead working height for safety. If needed, use work platform or man-lift for fall protection.

Devon Contacts	Contact Name	Office Location	Office Phone	Cell Phone	E-mail
Sr. Completions Foreman	Ronnie Carre	Artesia	575-748-0179	575-748-5528	Ronnie.Carre@dvn.com
Completions Foreman	Martin Jimenez	Artesia	575-748-0197	575-513-5819	Martin.Jimenez@dvn.com
Production Foreman	Rudy Zuniga	Artesia	575-746-5575	575-390-5435	Rudy.Zuniga@dvn.com
Production Asst. Foreman	Ray Carter	Artesia	575-748-9928	575-513-0956	Ray.Carter@dvn.com
Production Asst. Foreman	Librado Castillo	Artesia	N/A	575-202-0013	Librado.Castillo@dvn.com
Production Asst. Foreman	Lynn Smith	Artesia	575-746-5554	575-748-5241	Lynn.Smith@dvn.com
Production Engineer	David Garza	OKC	405-228-2015	307-257-3077	David.Garza@dvn.com
Completions Engineer	Mike Smith	OKC	405-552-8160	405-229-7983	Michael.Smith2@dvn.com
Production Engineer	Brent Schroder	OKC	405-552-4921	405-593-6714	Brent.Schroder@dvn.com

Construction/Facilities Foreman	Rick Campos	Artesia	575-746-5576	575-513-1933	Enrique.Campos@dvn.com
Construction/Facilities Foreman	Jack Pittman	Artesia	575-748-0186	575-513-1740	Jack.Pittman@dvn.com
EHS Professional	Amancio Cruz	Artesia	575-746-5582	575-513-2453	Amancio.Cruz@dvn.com
Automation Foreman	Danny Nolen	Artesia	575-748-0198	575-746-7810	Danny.Nolen@dvn.com
Measurement Foreman	Robert Hernandez	Artesia	575-748-9924	575-513-0060	Robert.Hernandez@dvn.com

Procedure: Please note BLM's COA and required BLM notifications/witnessing. Hold tailgate safety meetings prior to RU, each morning and before each operational change or event.

1) Test and/or install and test anchors. MIRU WSU (Well Service Unit). Spot necessary enclosed tanks, gas buster with flare stack and temporary flow lines to equipment. Record pressures on tbg and csg.

2) Top kill tbg and csg (if necessary) with 2% KCL.

3) ND Tree (Send in tree to be serviced/maintained and tested for future use). NU 10K BOPE (Outfitted w/1 set of blind rams on Bottom with additional 1 set of 2-7/8" pipe ram on top, will ALSO need 1 set of 3-1/2" Pipe Rams for later use). Test BOPE to Devon guidelines.

4) MIRU WSU. Unseat TBG Anchor. TOOH w/ 2-7/8" tubing.

5) RU WLU w/ Full 5K Lubricator (Test to Devon Specifications)

   a) RUN FULL SUITE OF LOGS to 11,670'
      1. CBL – Report back to OKC where TOC is located.
         - Caliper
         - Casing Inspection Tool (USIT – Schlumberger or Equiv)
      2. Gyro (MD, Incl, Azm)
      3. Temperature Log (Utilize for Baseline Temp)
   b) Repeat Pass w/ 1000 PSI on CSG

6) Plugback existing Morrow as follows (notify BLM for witness if required):

   a) RU WLU w/ full 5K lubricator.
   b) RIH w/ GRJB for 5-1/2" csg to +/- 11,930' KBM.
   c) RIH w/ WL and 5-1/2", 17#, 10K CIBP to 11,850' KBM and set CIBP.
   d) RIH and dump bail ~~35~~ 25 (Error on last COAs) SX of class H neat cmt on top of CIBP @ 11,815' KBM. Make multiple runs if necessary.
   e) WOC. Tag TOC (top must be no lower than 11,815')
   f) If ok, proceed to step g. If not, contact field supervisor and OKC engineer.
   g) RIH w/ Gyro (MD, Incl, Azm) to 11,815' or TOC. Record and report back to engineer.

7) RD WL. RU WSU. PU 2-7/8" tbg and RIH to ~11,815'.

8) Bring in ~500 bbls 10 ppg Brine. Load, circulate and balance hole.

9) Plugback Atoka and Strawn as follows (notify BLM for witness if required):

a) RU cmt crew and spot **x** bbls of 9 ppg spud mud.
b) PUH to **11,192'** and spot **x** sx (or 265') of class H neat cmt across the 50 ft above the Atoka (11,242'-11,407') and 50 ft below top of Morrow (11,407'-12,158'). Cement should cover 11,192' to 11,457'
c) WOC and tag TOC (top must be no lower than **11,192'**).
d) Spot **x** bbls 9 ppg spud mud.
e) PUH to **10,822'** and spot **x** sx (or 100') of class H neat cmt across the Strawn (10,872'-11,242') at 10,822' to 10,922' (50' below and above).
f) WOC and tag TOC (top must be no lower than **10,822'**).

*****Due to the fact that we will be running tracer logs for the 3rd Bone Spring that will need to run past the top of the Wolfcamp, we will need to bypass PA the Wolfcamp formation at the present time to make sure our tools can get deep enough. We are aware that in the future we will need to come back and plugback this zone.**

10) PU 3 ½" Flush JNT rental frac string w/ 5-1/2" PKR and RIH to 6,200', while pressure testing underneath slips to 6,000 PSI. Set PKR and MIT casing below that depth to 6,000 PSI for 30 minutes. Send this casing integrity chart into the BLM. Notify BLM if test fails. Blow down pressure upon completion.

11) MIRU WL with full lubricator. Make GR run and ***correlate to Schlumberger Triple Combo Logs ran on 5/1/2001.*** Perforate (with 3-1/8" slick guns) the 3rd Bone Spring from 9,822'-9,832' (10') @ 3 spf w/ 60° phasing.

12) RD WL. PU 5-1/2" packer and 3-1/2" flush jnt rental frac string, pressure testing underneath the slips to ~6,000#, and TIH to 9,700' and set pkr. RDMO WSU.

13) RU pressure truck and all surface equipment per Devon guidelines.

14) Perform DFIT analysis on 3BSSS. Ensure that all surface measurement equipment is in place and records accurate pressures throughout the job. Record pressures for 2 weeks.

15) Frac 3BSSS per vendor proposal. **Max surface pressure = 6,000 psi.**
Frac general info:
- 30-35 BPM
- Expected max STP is ~4,225 psi
- 150,000 lbs proppant
- Record average treating pressure, rates and job load along with ISIP, 5, 10 & 15 minute readings
- Last stage to be tagged w/ RA tracer.

16) Within 2 hours of the frac job. RU WL, with full lubricator, and run temperature and gamma ray logs for the tracer across the 3rd BSSS.

17) SWI. RDMO frac crew.

18) Flow well back according to flowback procedure. Flow well for 1 week.

19) RU WSU. Unset 5-1/2" pkr. TOOH and stand back 3-1/2" frac string.

20) RU WL, with full lubricator, and run gamma ray across the 3rd BSSS. Report findings to OKC.

21) Possibility to put this well on rod pump at this time. And continue further work at a later date. Find out from OKC what decision has been made. If the well is put on pump, continue the work below once tubing and rods are pulled from the well.

22) RIH w/ 5-1/2", 20#, 10k CIBP to 9,800' KBM Set CIBP and dump 2 sx of sand.

23) ***Correlate to Schlumberger Triple Combo Logs ran on 5/1/2001:*** Perforate (with 3-1/8" slick guns) the 1st Bone Spring from 8,015-8,025' (10') @ 3 spf w/ 60° phasing.

24) RD WL. PU 5-1/2" packer and 3-1/2" rental frac string, pressure testing underneath the slips to ~6,000#, and TIH to 7,900' and set pkr. RDMO WSU.

25) RU pressure truck and all surface equipment per Devon guidelines.

26) Perform DFIT analysis on 1BSSS. Ensure that all surface measurement equipment is in place and records accurate pressures throughout the job. Record pressures for 2 weeks.

27) Frac 1st BSSS per vendor proposal. **Max surface pressure = 6,000 psi.**

Frac general info:

- 30-35 BPM
- Expected max STP is ~3,446 psi
- 150,000 lbs proppant
- Record average treating pressure, rates and job load along with ISIP, 5, 10 & 15 minute readings
- Last stage to be tagged w/ RA tracer.

28) Within 2 hours of the frac job. RU WL, with full lubricator, and run temperature and gamma ray logs for the tracer across the 3rd BSSS.

29) SWI. RDMO frac crew.

30) Flow well back according to attached flowback procedure. Flow well for 1 week

31) RU WSU. Unset 5-1/2" pkr. TOOH and stand back 3-1/2" frac string.

32) RU WL, with full lubricator, and run gamma ray across the 1st BSSS. Report findings to OKC.

33) Possibility to put this well on rod pump at this time. And continue further work at a later date. Find out from OKC what decision has been made. If the well is put on pump, continue the work below once tubing and rods are pulled from the well.

34) PU 4-5/8" bit and drill out CIPBs to 9,800', circulate hole clean. TOOH

35) PU SN, 2-7/8" L-80 prod string and TIH to 9,800'. RIH w/ pump and rods and put well on prod.

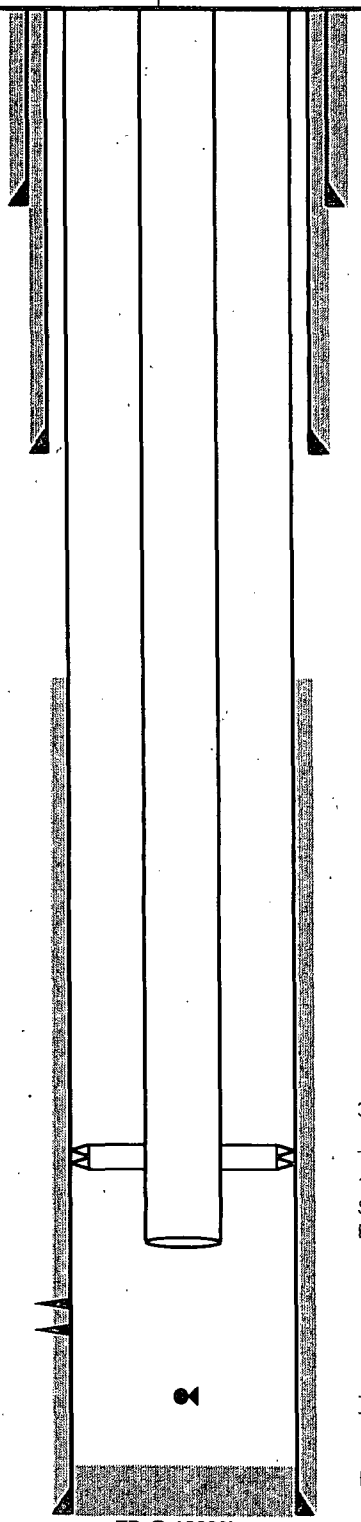
DEVON ENERGY PRODUCTION COMPANY LP

Well Name: Ranger 17 Fed Com #3	Field: Lusk West		
Location: 860' FNL & 660' FEL, 17-19S-31E	County: Eddy	State: NM	
Elevation: 3475' GL; 3491.5' KB	Spud Date: 2/1/2001	Compl Date: 5/2/2001	
API#: 30-015-31536	Prepared by: Ronnie Slack	Date: 03/15/05	Rev:

CURRENT

17-1/2" hole
13-3/8", 48#, H40, @ 460'
Cmt'd w/415 sks. Cmt to surf.

12-1/4" hole
8-5/8", 32#, J55, @ 4061'
Cmt'd w/ 1550 sks. Cmt to surf.



Production Tubing--5/10/03
375-Jts, 2-7/8", 6.5#, L80
TAC
10-Jts, 2-7/8"
Seating Nipple

On Plunger Lift

375 Jts, 2-7/8"

TAC @ 11558'
10 Jts-2-7/8"
SN
EOT @ 11868'

MORROW (5/2/01)
11906' - 11936 4 spf
11988' - 12012' 4 spf
IP: 60 bod, 1829 mcf, 0 bw, 1180 ftp
9/25/01: acidized w/5000 gals 7.5%

TCP guns, TOF @ 12106' (4/1/01)

PBD @ 12281'

7-7/8" Hole
5-1/2", 17#, N80/S95, @ 12290'
Cmt'd w/ 960 sks. TOC @ 6120'-cbl

TD @ 12290'

DEVON ENERGY PRODUCTION COMPANY LP			
Well Name: Ranger 17 Fed Com #3		Field: Lusk West	
Location: 860' FNL & 660' FEL, 17-19S-31E		County: Eddy	State: NM
Elevation: 3475' GL; 3491.5' KB		Spud Date: 2/1/2001	Compl Date: 5/2/2001
API#: 30-015-31536	Prepared by: Ronnie Slack	Date: 03/15/05	Rev:

PROPOSED

17-1/2" hole
13-3/8", 48#, H40, @ 460'
Cmt'd w/415 sks. Cmt to surf.

12-1/4" hole
8-5/8", 32#, J55, @ 4061'
Cmt'd w/ 1550 sks. Cmt to surf.

TOC AT 6,120'

1st BSS
8,015'-8,025'

3rd BSS
9,822'-9,832'

Wolfcamp
9,916'-10,016'
***Will PA at later Date

Strawn
10,822'-10,922'

Atoka
11,192'-11,457'

Production Tubing–5/10/03
375-Jts, 2-7/8", 6.5#, L80
TAC
10-Jts, 2-7/8"
Seating Nipple

On Plunger Lift

9 ppg mud

9 ppg mud

375 Jts, 2-7/8"

TAC @ 11558'
10 Jts-2-7/8"
SN
EOT @ 11868'

Morrow CIBP Cement
11,810'-11,845'
MORROW (5/2/01)
11906' - 11936 4 spf
11988' - 12012' 4 spf
IP: 60 bod, 1829 mcf, 0 bw, 1180 ftp
9/25/01: acidized w/5000 gals 7.5%

CIBP
11,845'-11,850'
5' Tall

TCP guns, TOF @ 12106' (4/1/01)

PBD @ 12281'

7-7/8" Hole
5-1/2", 17#, N80/S95, @ 12290'
Cmt'd w/ 960 sks. TOC @ 6120'-cbl

TD @ 12290'

Ranger 17 Fed Com 3
30-015-31536
Devon Energy Production Co., LP
July 29, 2015
Conditions of Approval

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

Work to be completed by October 29, 2015.

1. **Operator shall place CIBP at 11,850' (50 above top most perf) and place 25sx of Class H cement on top as proposed. WOC and tag.**

2. **The other two plugs (Morrow/Atoka and Strawn) are approved as written.**

   Note: The Wolfcamp formation will need to be properly abandoned prior to abandoning the Bone Spring formation.

3. **Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails**

4. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.

5. Surface disturbance beyond the originally approved pad must have prior approval.

6. Closed loop system required.

7. 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.

8. Operator to have H2S monitoring equipment on location.

9. A minimum of a **3000 (3M)** 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 (3M 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.

10. **Subsequent sundry required detailing work done, C-102 form, and completion report with the new formation. Operator to include well bore schematic of current well condition when work is complete.**

11. **See attached for general requirements.**

JAM 072915

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Permanent Abandonment of Production Zone Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from this approval.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.

2. **Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612**

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. Subsequent Plug back Reporting: Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.