

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**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 No.  
NMNM34467

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**7. If Unit or CA/Agreement, Name and/or No.  
RNM021

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.  
INDIAN HILLS 12. Name of Operator  
FASKEN OIL & RANCH LIMITEDContact: STEPHANIE GUTIERREZ  
E-Mail: stephanieg@forl.com9. API Well No.  
30-015-20195-00-C13a. Address  
6101 HOLIDAY HILL ROAD  
MIDLAND, TX 797073b. Phone No. (include area code)  
Ph: 432-687-177710. Field and Pool or Exploratory Area  
INDIAN BASIN-UPPER PENN ASSOC

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 8 T21S R24E NWSE 1650FSL 1750FEL

11. County or Parish, State

EDDY 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"/> Hydraulic Fracturing	<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 type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" 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. 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 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.

Fasken Oil and Ranch, Ltd. plans to plug and abandon the well above. Please find attached procedure and current and proposed wellbore diagram.

RECEIVED

GC 9-7-18  
Accepted for record - NMOC

SEP 06 2018

DISTRICT II-ARTESIA O.C.D.

SEE ATTACHED FOR  
CONDITIONS OF APPROVALENTERED  
8-18-18

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #429897 verified by the BLM Well Information System For FASKEN OIL & RANCH LIMITED, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 08/06/2018 (18DLM0521SE)	
Name (Printed/Typed) STEPHANIE GUTIERREZ	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/03/2018

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>James A. Amos</u>	Title <u>Supv. PET</u>	Date <u>8-18-18</u>
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 <u>Carlsbad</u>

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)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Recommended P&A Procedure  
Indian Hills Com No. 1**

<b>OBJECTIVE:</b>	Plug and Abandon
<b>WELL DATA (as of 10-4-03):</b>	
13-3/8" 48# & 54# H-40 casing:	Set at 314' 330' sx. Circ 137' sx cmt to surface.
8-5/8" 24' & 32# casing:	Set at 3,288', w/1290' sx Lite+ 200' sx "C" neat; lost pmps 3128' cmt in pipe. Drld cmt to 3258'. CBL TOC 1900. Perf 2js 1850', could not pump in 2500psi. Temp TOC 340'. Pmpd 68' sx H neat between 13-3/8" x 8-5/8". Calc 330' fill 7-18-70. TOC Surface.
4-1/2" 11.6# N80 & J55 casing:	Set at 10,190' 430' sx Incor ("C") w/7.5%#/sk salt, +1% Halad9 (est 15.0 ppg, yield 1.32 cuft/sk). TOC @ 8,100' calculated 100% fill; 8,500' 80%.
<b>Perfs &amp; plugs:</b>	Oct 2003: Strawn: 8708'-10', 8738'-47', 8831'-35', 9057'-62', 9155'-58' Oct 2003: Atoka: 9468'-74'
	CIBP @ 9628' w/35' cmt 9-6-03
	Aug 1971: Morrow: 9948'-49', 9971'-78', 10,016'-17', 10,033'-42', 10,080'-81', 10,101'-106' Sep 1970: Morrow: 9,926'-28', 9956'-60', 9982'-84'
<b>Tubing (10-4-03):</b>	2-3/8" Re-Entry Guide (0.41'), 4-1/2" x 2-3/8" Arrowset IX-10K (6.20'), 4-1/2" x 2-3/8" T-2 TOSSD w/1.781" "F" pn (1.71'), 277' jts 2-3/8" N-80 tbg (8792.03'). EOT 8,809.35' KB. NOTE: Backside fluid 3% KCL water with packer fluid and clay stabilizer.
<b>KB:</b>	14'
<b>TD:</b>	10,190'
<b>PBTD:</b>	9593' (CIBP 9628w/35' cmt, 9-6-03)

1. Notify BLM in Carlsbad @ 575-361-2822 of intent to plug and abandon 24 hours prior to rigging up on well.
2. Make sure mast anchors have been tested and tagged in last 24 months.
3. RUPU, set rig mats, cat walk, 2 sets pipe racks and a half-frac workover tank on location.
4. Lay flow line to workover tank. Receive +/-830' 2-3/8" EUE 8rd 4.7#/ft N80 workstring tubing.
5. Bleed tubing pressure (2000 psi May 2018) and casing pressure (if any) to tank.
6. RU pump truck and kill well via tubing with 40 bbls fresh water.
7. ND wellhead and NU BOP with 2-3/8" pipe rams and blind rams.
8. Release Arrowset IX-10K packer at 8,802' and POW with 277 jts 2-3/8" N-80 tbg (8792.03'), 4-1/2" x 2-3/8" T-2 TOSSD w/1.781" "F" pn (1.71'), 4-1/2" x 2-3/8" Arrowset IX-10K (6.20'), 2-3/8" Re-Entry Guide (0.41').
9. RIW with 2-3/8" notched collar, 2-3/8" EUE 8rd 4.7#/ft N80 tubing as pulled and +/-830' 2-3/8" EUE 8rd 4.7#/ft N80 workstring tubing to PBTD 9626'.
10. RU cement pump and mix and pump 100 bbls 9.5# salt gel mud with a minimum of 12.5 pounds of gel per barrel (or 25 sacks at 50 LB/sack per 100 bbls). Displace all cement plugs with mud laden brine water.

Add. Plugs Required: Set CIBP @ 9418. Dump Bail 35' (ATOKA)  
Set CIBP @ 8781. Dump Bail 35' (strawn)

Set CIBP @ 8675.

11. **Plug #1 (bottom plug):** POW to 8,675' laying down workstring tubing and mix and spot 25 sx Class H cement from 8675' and displace with mud laden brine water. POW and WOC 4 hrs. RIW with tubing and **TAG** cement plug; notify Midland Office and BLM of the results.
12. POW to 7,400' and RU cement pump.
13. **Plug #2:** Mix and spot a 25 sx Class "H" cement plug at ~~8225'-7896'~~ 8590 - 8310. (CYN)  
8310
14. POW and WOC 4 hours. RIW with tubing and **TAG** cement plug @ or above ~~7920'~~ and notify Midland Office and BLM of the results. Add. Plug. Perf @ 6908, SQZ cmt to 6738
15. **Plug #3** POW laying down tubing to ~~5845'~~ 5845'. Mix and spot a 25 sx Class "C" cement plug at ~~5685'~~ 5845'-5685'. POW and WOC 4 hours. RIW with tubing and **TAG** cement plug @ or above 5685' and notify Midland Office and BLM of the results. Perf @ 6544, SQZ cmt to 6374  
1000 Tag, (WC)
16. **Plug #4: (8-5/8" shoe plug):** POW to laying down tubing to ~~4330'~~ 4330'. Mix and spot a 25 sx Class "C" cement plug at ~~4330'-3950'~~ 4330'. POW and WOC 4 hrs. RIW with tubing and **TAG** cement plug @ or above ~~3950'~~ and notify Midland Office and BLM of the results. Shoe @ 3288. Perf @ 3338, SQZ cmt to 3198. WOC Tag (BS)
17. POW with 2-3/8" workstring. Lay down all but 2100' of tubing.
18. RUWL and 3000 psi lubricator. RIW with 3-1/8" casing gun and perforate 4 squeeze holes at ~~2350'~~ RDWL. Perf @ 2836, SQZ cmt to 2706. WOC Tag (ABO)
19. RIW with 4-1/2" AD-1 tension packer, SN, 2-3/8" EUE 8rd N80 tubing and set packer at +/- 2400'.
20. **Plug #5:** Open 4-1/2" x 8-5/8" casing to pit. Squeeze perfs at 2350' with 30 sx Class "C" cement, displacing cement with 9.5 ppg gel laden mud to 2240' or above. Perf @ 1202, SQZ cmt to 1102. WOC Tag (SA)
21. Release packer and POW and lay down tubing, SN, packer.
22. RUWL and 3000 psi lubricator. RIW with 3-1/8" casing gun and perforate 4 squeeze holes at 400'. RDWL.
23. **Plug #6:** Open 4-1/2" x 8-5/8" casing to pit. RIW with pkr, SN and tubing to 10' FS and set pkr. Squeeze perfs at 400' with 100 sx Class "C" cement, displacing cement with 9.5 ppg gel laden mud. Attempt to circulate cement to surface; top must be 280' or above.
24. Release packer and POW with tubing, SN, packer. Top off cement to surface inside 4-1/2" casing and 8-5/8" x 4-1/2" annulus. WOC 4 hours. RIW with tubing and **TAG** cement plug at or above 280' (if cement was not circulated), and notify Midland Office and BLM of the results. POW with tubing to 60'. If Not Circ. Perf @ 60' SQZ cmt Surf.
25. **Plug #7:** Mix and spot a 15 sx Class "C" cement plug at 60', displacing cement to surface.
26. Dig out wellheads and cut-off below "A" section.
27. Weld plate onto casing with marker joint with the following information. Fasken Oil & Ranch Ltd., El Paso Federal No. 4., Section 3, T21S, R26E, 660' FNL and 1980' FWL, Unit C.
28. Install 1" 2000 psi valve welded into top of marker joint. Remove valve handle and close valve.
29. Send wellheads to Downing Wellhead in Midland. Clean location, RDPU and release all rental equipment.

5-24-18

→ Add plug. Perf @ 4954, SQZ cmt to 4804, WOC Tag, (GL)

# Indian Hills Com No. 1

Current as of 10-4-03

GL: 4100.8'; KB: 4111.0'

Operator: **Fasken Oil and Ranch, Ltd.**

Location: 1650' FSL and 1750' FEL

Sec 8, T21S, R24E

Eddy County, NM

Compl.: 9/3/1970

API #: 30-015-20195

TD: 10190' (Cable tool 0-125')

PBTD: 9593' (CIBP 9628w/35'cmt,9-6-03)

Casing: **13-3/8" 48#&54# H40 @ 314' KB**

w/350sx"C" w/2% gel, 2% caCl2, 1/4#flocele

TOC surface, circ 137 sx.

**8-5/8" 24&32# @ 3288' KB**

w/1290sx Lite+ 200sx "C" neat; lost pmps 3128'cmt in pipe

Drlid cmt to 3258'. CBL TOC 1900. Perf 2js 1850', could not pump in 2500psi. Temp TOC 340'. Pmpd 68 sx H neat between

13-3/8"x8-5/8". Calc 330' fill. 7-18-70 Abo 4904'

TOC Surface.

**4-1/2" 11.6# N-80&J-55@ 10,190' KB**

450 sx Incor ("C") w/7.5%#/sk salt, +1% Halad9

(est 15.0 ppg, yield 1 32 cuft/sk)

TOC 8100' calc, 100%fill (Avg 8.5"h)

TOC 8100' calc, 100%fill (Avg 8.5"h)

**Tubing:** 2-3/8" Re-Entry Guide

10/4/2003 4-1/2"x2-3/8" Arrowset IX-10K

4-1/2"x2-3/8" T-2 TOSSD w/1.781" "F" pn

277 jts 2-3/8" N-80 tbg

KB

Slack off

EOT

Pkr

Set at:

0.41

6.20

1.71

8792.03

14.00

-5.00

8809.35

8802.74

Perfs

Strawn: 8708'-10' (3h, 10-1-03)

8738'-47' (10h, 10-1-03)

8831'-35' (5h, 10-1-03)

9057'-62' (6h, 10-7-03)

9155'-58' (4h, 10-7-03)

Atoka: 9468'-74' (7h, 10-7-03)

**CIBP** 9628' w/35' cmt 9-6-03

Morrow: 9926'-28' (Sep 1970)

9948'-49' (5h, 8-16-71)

9956'-60' (Sep 1970)

9971'-78' (29h, 8-16-71)

9982'-84' (Sep 1970)

10,016'-17' (5h, 8-16-71)

10,033'-42' (37h, 8-16-71)

10,080'-81' (5h, 8-16-71)

10,101'-106' (10h, 8-16-71)

**Hole sizes:** 17-1/2" 320'; 12-1/4" 3288', 7-7/8" 9880'

Last Production April 2016

Tops

San Andres 1152'

Glorieta 2786'

Abo 4904'

Bone Spring 6494'

Wolfcamp Sh 6858'

Wolfcamp Lm 7373'

Canyon 8540'

Strawn 8673'

Strawn L 9077'

Atoka 9398'

Morrow Lm 9765'

TD:

13-3/8" 48#&54# H40 @ 314' KB

TOC surface, circ 137 sx.

8-5/8" 24&32# @ 3288' KB

TOC Surface.

Backside fluid 3% KCL water with packer fluid and clay stabilizer.

TOC 8100' calc, 100%fill (Avg 8.5"h)

TOC 8500' 80% fill

8708-47'

8809.35

8831'-35'

9057'-62'

9155'-58'

9468'-74'

CIBP 9628' w/35' cmt 9-6-03

9,926'-10,106'

10190' (Cable tool 0-125')

4-1/2" 11.6# N-80&J-55@ 10,190' KB

cwb

6-23-10

IndianHillsCom1 WB diag.xlsx

# Indian Hills Com No. 1

Proposed P&A 5-24-18

GL: 4100.8'; KB: 4111.0'

Tops

Operator: **Fasken Oil and Ranch, Ltd.**

Location: 1650' FSL and 1750' FEL

Sec 8, T21S, R24E

Eddy County, NM

Compl.: 9/3/1970

API #: 30-015-20195

TD: 10190' (Cable tool 0-125')

PBTD: 9593' (CIBP 9628w/35'cmt, 9-6-03 San Andres 1152'

Casing: 13-3/8" 48#&54# H40 @ 314' KB ✓

17 1/2" hole

w/350sx"C" w/2% gel, 2% caCl2, 1/4# floce

TOC surface, circ 137 sx.

Glorieta 2786

8-5/8" 24&32# @ 3288' KB ✓

12 1/4" hole

w/1290sx Lite+ 200sx "C" neat; lost pmps 3128'cmt in pipe

Drd cmt to 3258' CBL TOC 1900. Perf 2js 1850', could not pump in 2500psi. Temp TOC 340' Pmpd 68 sx H neat between

13-3/8"x8-5/8" Calc 330' fill, 7-18-70

TOC Surface.

Abo 4904  
1Bn Spring sd 4900

7 7/8" hole

4-1/2" 11.6# N-80&J-55@ 10,190' KB

450 sx Incor ("C") w/7.5%/sk salt, +1% Halad9

(est 15.0 ppg, yield 1.32 cuft/sk)

Bone Spring 6494 ✓

TOC 8100' calc, 100%fill (Avg 8.5"h)

## BLM Approved (5-16-09) Plugs

15 sx "C"	0-60'	Plg #7, Surface	60.00
50sx"C"	TAC 414-214'	Plg #6 Shoe, Perf & Sc	200
50sx"C"	1100'-900'	Plg #5, Perf & Sqz	200
50sx"C"	TAC 3388'-3188'	Plg #4 Shoe, Perf & Sc	200
50sx"C"	5000'-4800'	Plg #3, Perf & Sqz	200
60sx"C"	7400'-7200'	Plg #2, Perf & Sqz	200
25 sx"H"	TAC 8675'-8371'	Plg #1, TAG	304.00
CIBP	8675'		

Wolfcamp Lm 7373' 6858

Canyon 6540

Strawn 8673' ✓

1364.00

## Perfs

Strawn: 8708'-10'	(3h, 10-1-03)
8738'-47'	(10h, 10-1-03)
8831'-35'	(5h, 10-1-03)
9057'-62'	(6h, 10-7-03)
9155'-58'	(4h, 10-7-03)
Atoka: 9468'-74'	(7h, 10-7-03)

Strawn L 9077

Atoka 9398 ✓

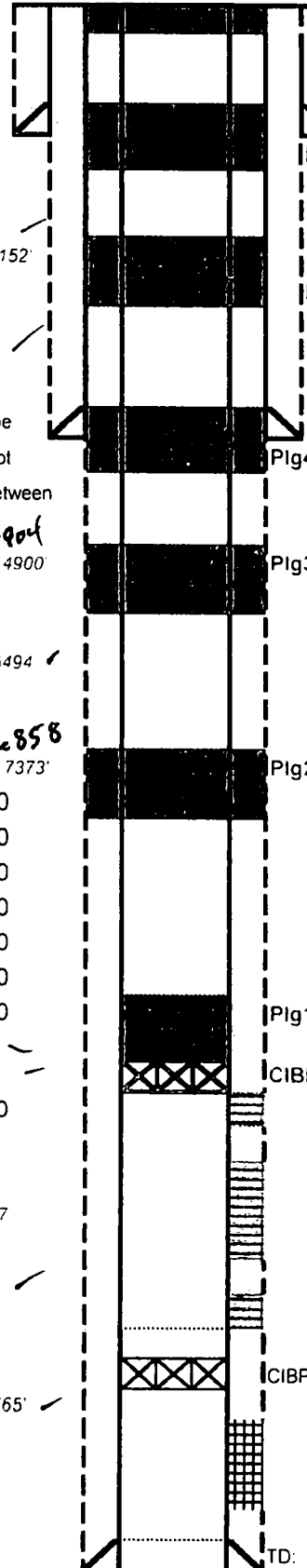
CIBP 9628' w/35' cmt 9-6-03

Morrow: Lm 9765' ✓

Morrow. 9,926'-10,106'

Hole sizes: 17-1/2" 320'; 12-1/4" 3288'; 7-7/8" 9880'

Last Production April 2016



Plg7 60'-Surf, 15sx Surface

13-3/8" 48#&54# H40 @ 314' KB

TOC surface, circ 137 sx.

Plg6 50sx"C" TAG 414-214'

Perf&Sqz

Plg5 50sx"C" 1100'-900'

Perf&Sqz

SA 1152

GL 2786

8-5/8" 24&32# @ 3288' KB

TOC Surface.

Abo 4904

Plg4 50sx"C" TAG 3388'-3188'

Perf&Sqz

Plg3 50sx"C" 5000'-4800'

Perf&Sqz

BS 6494

WC 6858

Plg2 60sx"C" 7400'-7200'

Perf&Sqz

CYN 8450

ST 8673

AT 9398

TOC 8100' calc, 100%fill (Avg 8.5"h)

25 sx"H" TAG 8675'-8371'

CIBP 8675'

8708-47'

MR 9765  
(Perm)

8831'-35'

9057'-62'

(st)

9155'-58'

9468'-74'

(AT)

9628' w/35' cmt 9-6-03

PBTD 9594

9,926'-10,106'

10190' (Cable tool 0-125')

4-1/2" 11.6# N-80&J-55@ 10,190' KB

cwb

5-24-18

IndianHillsCom1 WB diag.xlsx

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

**Permanent Abandonment of Federal Wells  
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 the approval date of this Notice of Intent to Abandon.

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

**The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; 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. Based on depth, a tag of the cement may be deemed necessary.**

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. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging 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 well was plugged.**

8. 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.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.