Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED
FEB -2 2010
NMOCD ARTESIA

5. Lease Serial No
NM-17589

6. If Indian, Allottee or Tribe Name

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

1 Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8 Well Name and No.
Nash Unit #29

2. Name of Operator
XTO Energy Inc.

9. API Well No
30-015-29434

3a Address
200 N. Loraine, Ste. 800 Midland, TX 79701

3b Phone No. *(include area code)*
432-620-6740

10. Field and Pool, or Exploratory Area
Nash Draw; Delaware/BS (Avalon Sand)

4. Location of Well *(Footage, Sec., T, R, M., or Survey Description)*
Unit Ltr. J, Section 13, T-23S, R-29E
1980' FSL & 2310' FEL, Eddy Co., NM

11 County or Parish, State
Eddy County NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] 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	[X] Other Convert to SWD Well
	[ ] Change Plans	[ ] Plug and Abandon	[ ] Temporarily Abandon	AO - SWD-1157
	[ ] 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 final site is ready for final inspection.)

Due to BLM additional conditions of approval dated January 14, 2010, drill out existing CIBP's & cement plugs. BLM is requiring 4 CIBPs & 2 - 150' cement plugs across Cherry Canyon, Bell Canyon, and Bone Spring formation. Well will be placed on disposal to allow for disposal of produced water from the four laterals for 2010.

Incorrect

Procedure Attached on Next Page.

See attached COA + comments

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Accepted for record
NMOCD PT 2/1/10

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Kristy Ward

Title
Regulatory Analyst

Date 01/20/10

APPROVED
JAN 27 2010
WESLEY W. INGRAM
PETROLEUM ENGINEER

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, makes 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.

XTO ENERGY

NASH UNIT #29 SWD
EDDY COUNTY, NEW MEXICO
JANUARY 20, 2010

ELEVATION: PBTD - 3890' KB – 3005'
TD - 7210' GL – 2991'

WELL DATA:

Surface Casing: 13-3/8", 48 ppf. Set at 309'. Cemented with 425 sx. Circulated.

Inter. Casing: 8-5/8", 32 ppf. Set at 3000'. Cemented with 900 sx. Circulated.

Prod. Csg: 5-1/2", 17 ppf J-55 Csg. Set at 7250'. Cemented with 1245 sx in three stages, DV tools @ 4496' & 6076'
Circulated 1st & 2nd stages, TOC @ 2060' CBL

PERFORATIONS: Bell Canyon 3192-3786'

OBJECTIVE: Due to BLM additional conditions of approval dated Jan 14 2010, drill out existing CIBPs and cement plugs. BLM is requiring 4 CIBPs and 2- 150' cement plugs across Cherry Canyon, Bell Canyon and Bone Spring formation. Well will be placed on disposal to allow for disposal of produced water from the four laterals for 2010. .

RECOMMENDED PROCEDURE

NOTIFY BLM(Carlsbad), OCD and MOSAIC POTASH 24 HOURS PRIOR TO STARTING WORK.

1. MIRU PU and reverse unit. ND WH. NU BOP. POH w/ 2 7/8" injection tbg and packer.

2. PU 2 7/8" WS. TIH with WS & bit to PBTD. Drill out cmt and 1st CIBP @ 3900'. Continue in hole to cement and 2nd CIBP @ 5400'. Drill out CIBP and continue in hole to +/- 7100'. POH w/ WS. RD reverse unit.

3. RU WL. RIH w/ WL & set CIBP @ +/- 6988'. Correlate depth to Computalog Cement Bond Log w/ Gamma Ray / CCL ran on May 15, 1997. POH w/ WL

4. RIH w/ WL & dump bailer. Dump 35' CL C (5 sx) cmt on top of CIBP. POH w/ WL.

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EDDY COUNTY, NEW MEXICO
JANUARY 20, 2010

5. RIH w/ WL & set CIBP @ +/- 6775'. Correlate depth to Computalog Cement Bond Log w/ Gamma Ray / CCL ran on May 15, 1997. POH w/ WL.

6. RIH w/ WL & dump bailer. Dump 35' CL C (5 sx) cmt on top of CIBP. POH w/ WL.

7. RIH w/ 2 7/8" WS to 6150'. Spot 25 sx CL C + 2% CaCL2 balance cement plug (~250' in 5 ½" csg) from 5950'-6150' across DV tool @ 6076'. Pull WS up to 5500' and reverse clean. WOC for 3 hours. RIH w/ WS and tag plug. Top of cmt plug must be 6026' or above. POH w/ 2 7/8" WS.

8. RIH w/ WL & set CIBP @ +/- 5400'. Correlate depth to Computalog Cement Bond Log w/ Gamma Ray / CCL ran on May 15, 1997. POH w/ WL.

9. RIH w/ WL & dump bailer. Dump 35' CL C (5 sx) cmt on top of CIBP. POH w/ WL.

10. RIH w/ 2 7/8" WS to 4550'. Spot 25 sx CL C + 2% CaCL2 balance cement plug (~250' in 5 ½" csg) from 4350'-4550' across DV tool @ 4496'. Pull WS up to 4000' and reverse clean. WOC for 3 hours. RIH w/ WS and tag plug. Top of cmt plug must be 4446' or above. POH w/ 2 7/8" WS.

11. RIH w/ WL & set CIBP @ +/- 3900'. Correlate depth to Computalog Cement Bond Log w/ Gamma Ray / CCL ran on May 15, 1997. POH w/ WL.

12. RIH w/ WL & dump bailer. Dump 35' CL C (5 sx) cmt on top of CIBP. POH w/ WL.

13. TIH w/ Loc-Set packer & 2 7/8" J-55 IPC tbg to +/- 3150'. Test tbg in hole to 5000 psi. Circulate packer fluid. Set packer @ +/- 3150'.

14. ND BOP. NU WH. Notify NM OCD, BLM Carlsbad and Mosaic Potash of MIT. Perform MIT test.

XTO ENERGY

NASH UNIT #29 SWD
EDDY COUNTY, NEW MEXICO
JANUARY 20, 2010

15. RD PU. Assuming NM OCD, BLM and Mosiac Potash approval put well on disposal. Maximum allowable surface pressure is 638 psi. Notify Midland engineering of rates and pressures.

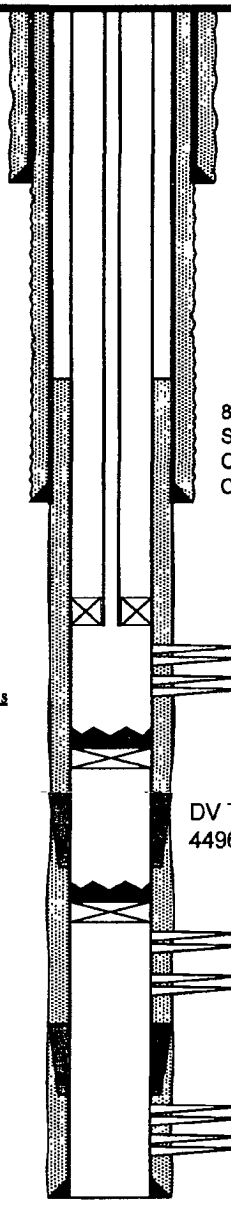
Prepared by: _____ Date: 1/20/2010
Richard Lauderdale

Approved by: _____ Date: 1/20/10
Trey Krampf

Approved by: _____ Date: 01/20/10
Guy Haykus

XTO ENERGY - ACTUAL AFTER 5/2009 WORK

Well:	Nash Unit #29	**WI:**	86.593973%
Area:	Carlsbad	**NRI:**	66.807591%
Location:	Section 13, T23S, R29E	**Spud:**	3/2/1997
County:	Eddy	**State:**	New Mexico
Elevation:	2991 GL 3005 KB		



Nash Unit #29
Spud: 3/2/1997
Complete Well: 5/15/97
Delaware: Initial Completion
5/97: Perforate (6825'-6870' 23' 23 holes), Acidize w/ 2500 gals 7 5% NEFE & 50 BS , AIR 2.8 BPM @ 1500 psi, ISIP 620#,
Frac down csg w/ 94105 gal YF135 gel carrying 216880# 16/30 & RC sand ,AIR 21 BPM @ 900 psi, ISIP 920#
Ran temp survey
Top of frac @ 6720' & bottom @ 6945'

Final Report
IPP 36 BO, 352 BW & 305 MCF in 24 hrs

Workovers
6/2001
Set RBP @ ???
Perforate 5878'-82' (5', 5 holes),
Acidize interval w/ 1000 gal 7 ½% & 10 BS,
Swab 2-3% oil cut
DID NOT FRAC

Set RBP @ 5516'
Perforate 5433-5449 (10', 10 total holes), Acidize w/ 1500 gal 7 5% NEFE & 20 BS, AIR 3 3 BPM @ 1300 psi, ISIP 700 psi, Swab 25% oil cut
Frac via 2 7/8" tbg w/ 4300 gal YF-130 gel & 3200# 16/30 sand AIR 6.1 BPM @ 1060 psi, ISIP 700 psi,

Retrieve RBP & put all zones on pump
IPP 3 bo, 49 bw & 50 mcf

CONVERT TO SWD PROCEDURE
POH with rods & pump. Set CIBP #1 at 5400'. Cap with 10' cmt. Set CIBP #2 @ 3900'. Cap with 10' cmt.
Perf Bell Canyon from **3688-92, 3698-3712, 3726-38, 3750-68, 3774-86 (60', 60 total holes)**
Acidized with 3500 gal 7.5% HCL & 100 RCNBS @ 5 BPM & 1700 psi,
Frac interval 3688-3786 with 10,000 gal FW, 30,000 AMBorMax 1017 X-linked gel carrying 50000# 16/30 sand (1-4 ppa) @ 60 BPM & 1650 psi. Set Comp BP @ 3650'
Perf Bell Canyon from **3478-86, 3492-3500, 3512-22, 3536-50, 3554-68 (54', 54 total holes)**
Acidized with 2000 gal 7.5% HCL Frac interval 3478-3568 with 10,000 gal FW, 30,000 AMBorMax 1017
X-linked gel carrying 50000# 16/30 sand (1-4 ppa) @ 59 BPM & 1850 psi. Set Comp BP @ 3425'
Perf Bell Canyon from **3192-3202, 3244-54, 3260-70, 3292-98, 3324-34, 3346-56, 3376-86 (66', 66 total holes)**
Acidized with 2000 gal 7.5% HCL Frac interval 3192-3386 with 10,000 gal FW, 30,000 AMBorMax 1017
X-linked gel carrying 50000# 16/30 sand (1-4 ppa) @ 60 BPM & 1600 psi.

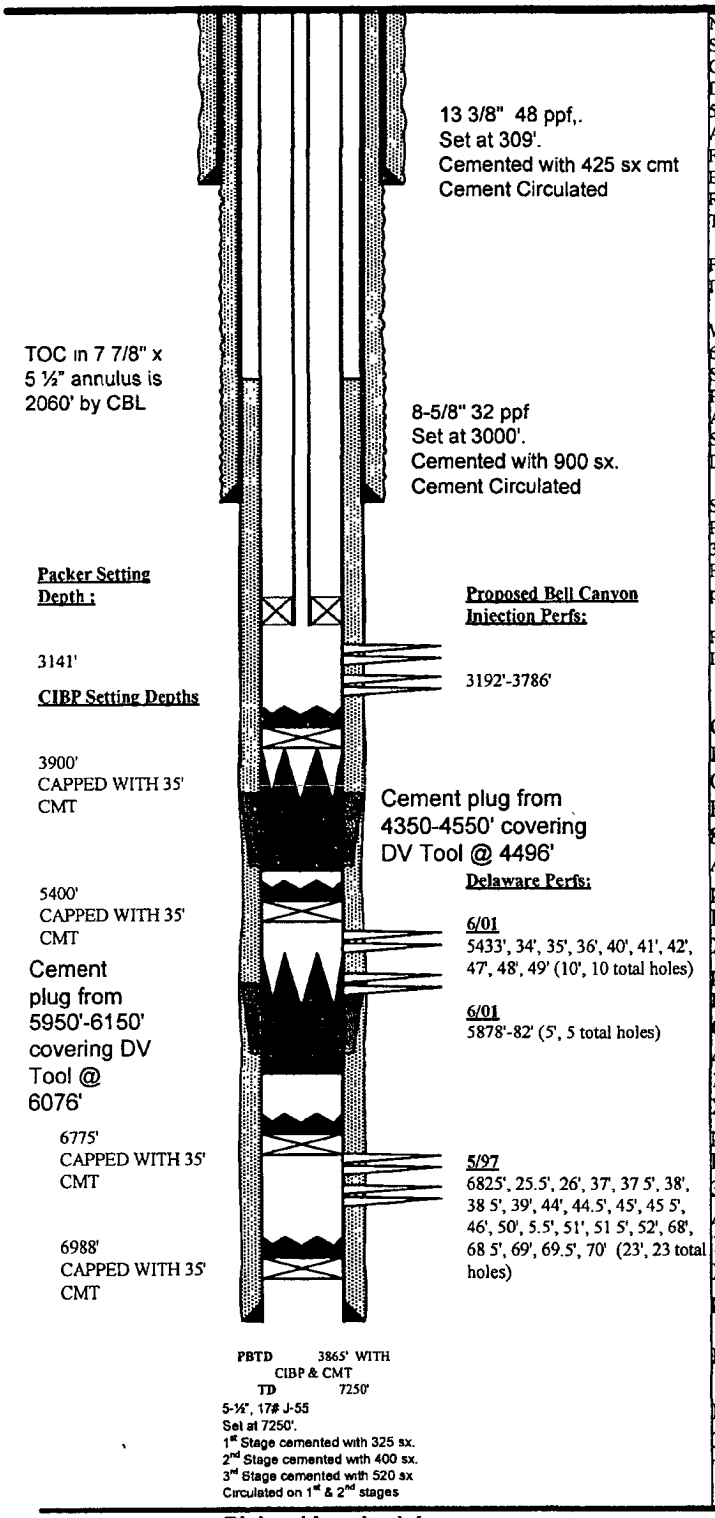
DO Comp BP @ 3425' & 3650'. CO to PBTD (3890').

RIH w/ 5 ½" pkr & 2 7/8" J-55 6.5# EUE 8rd IPC tbg. Set packer @ 3141'. Rel off O/O tool. Circ packer fluid. Latch back on O/O tool. Test TCA to 500 psi. Held OK. Well ready for injection on 5/21/09.

PREPARED BY: Richard Lauderdale **DATE:** 9/17/09

XTO ENERGY - PROPOSED AFTER 1/2010 WORK

Well:	Nash Unit #29	**WI:**	86.593973%
Area:	Carlsbad	**NRI:**	66.807591%
Location:	Section 13, T23S, R29E	**Spud:**	3/2/1997
County:	Eddy	**State:**	New Mexico
Elevation:	2991 GL 3005 KB		



Nash Unit #29 ·
Spud. 3/2/1997
Complete Well. 5/15/97
Delaware: Initial Completion
5/97: Perforate (6825'-6870' 23' 23 holes), Acidize w/ 2500 gals 7 5% NEFE & 50 BS , AIR 2 8 BPM @ 1500 psi, ISIP 620#,
Frac down csg w/ 94105 gal YF135 gel carrying 216880# 16/30 & RC sand ,AIR 21 BPM @ 900 psi, ISIP 920#
Ran temp survey
Top of frac @ 6720' & bottom @ 6945'

Final Report
IPP. 36 BO, 352 BW & 305 MCF in 24 hrs

Workovers
6/2001
Set RBP @ ???
Perforate 5878'-82' (5', 5 holes),
Acidize interval w/ 1000 gal 7 ½% & 10 BS,
Swab 2-3% oil cut
DID NOT FRAC

Set RBP @ 5516'
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Frac via 2 7/8" tbg w/ 4300 gal YF-130 gel & 3200# 16/30 sand AIR 6.1 BPM @ 1060 psi, ISIP 700 psi,

Retrieve RBP & put all zones on pump
IPP: 3 bo, 49 bw & 50 mcf

CONVERT TO SWD PROCEDURE
POH with rods & pump. Set CIBP #1 at 5400'. Cap with 10' cmt. Set CIBP #2 @ 3900'. Cap with 10' cmt.
Perf Bell Canyon from **3688-92, 3698-3712, 3726-38, 3750-68, 3774-86 (60', 60 total holes)**
Acidized with 3500 gal 7.5% HCL & 100 RCNBS @ 5 BPM & 1700 psi,
Frac interval 3688-3786 with 10,000 gal FW, 30,000 AMBorMax 1017 X-linked gel carrying 50000# 16/30 sand (1-4 ppa) @ 60 BPM & 1650 psi. Set Comp BP @ 3650'
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X-linked gel carrying 50000# 16/30 sand (1-4 ppa) @ 59 BPM & 1850 psi. Set Comp BP @ 3425'
Perf Bell Canyon from **3192-3202, 3244-54, 3260-70, 3292-98, 3324-34, 3346-56, 3376-86 (66', 66 total holes)**
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X-linked gel carrying 50000# 16/30 sand (1-4 ppa) @ 60 BPM & 1600 psi.

DO Comp BP @ 3425' & 3650'. CO to PBTD (3890').

RIH w/ 5 ½" pkr & 2 7/8" J-55 6.5# EUE 8rd IPC tbg. Set packer @ 3141'. Rel off O/O tool. Circ packer fluid. Latch back on O/O tool. Test TCA to 500 psi. Held OK. Well ready for injection on 5/21/09.

PREPARED BY: Richard Lauderdale **DATE:** 1/20/10

Nash Unit #29
30-015-29434
XTO Energy
January 14, 2010
Conditions of Approval

1. Contact the BLM at 575-361-2822 a minimum of 24 hours prior to starting work.
2. As per NMOCD, verification of the new cement top in Nash Unit Well No. 1 must be submitted prior to work beginning on Nash Unit #29.
3. Work completed in May 2009 was done prior to approval. Well has not been plugged back properly. Work required in original approval of August 8, 2009 shall be completed prior to the well being used as an injection well. This will be the remedy for the Incident of Non-Compliance that has been issued.
4. The Nash Unit #29 completion report indicated the Bone Spring formation at 6888'. A plug is required at the top of this formation. Due to the proximity of the lower perforations, this plug should also cover those perforations. Plug to be set from 6940 – 6770' and must be tagged at 6770' or shallower. Plug to be 170' in length and a minimum of 25 sacks.
5. Plug required across DV tool at 6076'. Plug to be set from 6150 – 5990' and tagged at 5990' or shallower. Plug to be 160' in length and a minimum of 25 sacks.
6. CIBP at 5400' is to have 35' of cement bailed or 25 sacks of cement pumped on top of CIBP.
7. Plug required across DV tool at 4496'. Plug to be set from 4550 – 4405' and must be tagged at 4405' or shallower. Plug to be 145' in length and a minimum of 25 sacks.
8. CIBP at 3900' will require 35' of cement bailed or 25 sacks of cement pumped on top.
9. Proceed with proposed procedure.
10. Subsequent sundry required detailing all work and when well was placed on injection.

WWI 011410

Nash Unit #29
30-015-29434
XTO Energy
January 27, 2010
Conditions of Approval

NOTE: THE STATEMENT THAT ADDITIONAL CONDITIONS WERE ADDED ON JANUARY 14, 2010 IS INCORRECT. THESE CONDITIONS WERE A REITERATION OF THOSE ORIGINALLY SENT AUGUST 8, 2009. HOWEVER, THE OPERATOR HAD ALREADY PERFORMED CONVERSION WORK ON A FEDERAL WELL BASED ON AN APPROVAL BY NMOCD. COPY OF ORIGINAL COA FROM THE SUNDRY OF APRIL 8, 2009 APPROVED AUGUST 8, 2009 IS ATTACHED. OPERATOR WAS INFORMED PRIOR TO APPROVAL IN AUGUST THAT BLM WAS REVIEWING THIS DOCUMENT AND MIGHT NOT APPROVE THE CONVERSION.

1. **Contact the BLM at 575-361-2822 a minimum of 24 hours prior to starting work.**
2. **As per NMOCD, verification of the new cement top in Nash Unit Well No. 1 must be submitted prior to work beginning on Nash Unit #29.**
3. **Work completed in May 2009 was done prior to approval. Well has not been plugged back properly. Work required in original approval of August 8, 2009 shall be completed prior to the well being used as an injection well. This will be the remedy for the Incident of Non-Compliance that has been issued.**
4. **Bone Spring plug will be done by setting a CIBP at 6988' with 35' of cement. Top of plug will be at approximate depth allowed when drilling Delaware wells.**
5. **CIBP will be set at approximately 6775' (may vary somewhat in depth due to collars) with 35' of cement bailed on top.**
6. **Plug required across DV tool at 6076'. Plug to be set from 6150 – 5990' and tagged. Plug to be tagged a minimum of 50' above top of DV tool. Plug to be 160' in length and a minimum of 25 sacks.**
7. **CIBP at approximately 5383' (may vary somewhat in depth due to collars) with 35' of cement bailed on top.**
8. **Plug required across DV tool at 4496'. Plug to be set from 4550 – 4405' and tagged. Plug to be tagged a minimum of 50' above top of DV tool. Plug to be 145' in length and a minimum of 25 sacks.**
9. **CIBP at approximately 3900' with 35' of cement bailed on top.**
10. **Proceed with proposed procedure.**
11. **Subsequent sundry required detailing all work and when well was placed on injection.**
12. **New completion report required for injection zone.**

WWI 012710

Nash Unit #29
30-015-29434
XTO Energy
August 8, 2009
Conditions of Approval

1. **Contact the BLM at 575-361-2822 a minimum of 24 hours prior to starting work.**
2. **Per NMOCD Order SWD-1157, the Nash Unit Well No. 1 is to have a squeeze cement procedure to raise the existing cement top to above the 10-3/4" casing shoe set at 3325 feet. No procedure has been received by the BLM for this work. This is a unit well and the BLM requires notification on work taking place in unit wells. As per NMOCD, verification of the new cement top must be submitted prior to work beginning on Nash Unit #29.**
3. **A monitor well is required to monitor potential water flow toward the potash mine workings and potential mine workings. This monitor well is to be located on the half section line approximately 50 feet from the west line of Section 13. The monitor well should be to a depth just below the salt formation.**
4. **The Nash Unit #29 completion report indicated the Bone Spring formation at 6888'. A plug is required at the top of this formation. Due to the proximity of the lower perforations, this plug should also cover those perforations. Plug to be set from 6940 – 6770' and must be tagged at 6770' or shallower. Plug to be 170' in length and a minimum of 25 sacks.**
5. **Plug required across DV tool at 6076'. Plug to be set from 6150 – 5990' and tagged at 5990' or shallower. Plug to be 160' in length and a minimum of 25 sacks.**
6. **CIBP at 5400' is to have 35' of cement bailed or 25 sacks of cement pumped on top of CIBP.**
7. **Plug required across DV tool at 4496'. Plug to be set from 4550 – 4405' and must be tagged at 4405' or shallower. Plug to be 145' in length and a minimum of 25 sacks.**
8. **CIBP that was to be set at 3900' will need to be moved deeper as the BLM after further review will require that the Cherry Canyon be the injection interval. The CIBP will require 35' of cement bailed or 25 sacks of cement pumped on top.**
9. **Proceed with proposed procedure, but for the Cherry Canyon.**
10. **Subsequent sundry required detailing all work and when well was placed on injection.**

WWI 080809