



Well Name: CBM 14-27-14	Well Location: T27N / R14W / SEC 14 / NENE / 36.58068 / -108.291	County or Parish/State: SAN JUAN / NM
Well Number: 1	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: N0G10081773	Unit or CA Name:	Unit or CA Number:
US Well Number: 300453529900X1	Well Status: Gas Well Shut In	Operator: NAVAJO NATION OIL & GAS COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Plug and Abandonment

Date Sundry Submitted: 04/14/2021

Time Sundry Submitted: 11:55

Date proposed operation will begin: 04/30/2021

Procedure Description: Please see attached no rec plan as conducted and approved by BIA & NAPI

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

P_A_Procedure_CBM_14_27_14_1_20210414115427.pdf

Conditions of Approval

Additional Reviews

27N14W14AKd_CBM_14_27_14_1_20210601153747.pdf

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NENE / 36.58068 / -108.291**County or Parish/State:** SAN
JUAN / NM**Well Number:** 1**Type of Well:** CONVENTIONAL GAS
WELL**Allottee or Tribe Name:**
EASTERN NAVAJO**Lease Number:** N0G10081773**Unit or CA Name:****Unit or CA Number:****US Well Number:** 300453529900X1**Well Status:** Gas Well Shut In**Operator:** NAVAJO NATION OIL
& GAS COMPANY

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: VANESSA FIELDS**Signed on:** APR 14, 2021 11:50 AM**Name:** NAVAJO NATION OIL & GAS COMPANY**Title:** Regulatory Manager**Street Address:** 7415 EAST MAIN STREET**City:** FARMINGTON**State:** NM**Phone:** (505) 327-4892**Email address:** VANESSA@WALSHENG.NET

Field Representative

Representative Name: VANESSA FIELDS**Street Address:** 7415 EAST MAIN STREET**City:** FARMINGTON**State:** NM**Zip:** 87402**Phone:** (150)578-7910**Email address:** vanessa@walsheng.net

BLM Point of Contact

BLM POC Name: DAVE J MANKIEWICZ**BLM POC Title:** AFM-Minerals**BLM POC Phone:** 5055647761**BLM POC Email Address:** DMANKIEW@BLM.GOV**Disposition:** Approved**Disposition Date:** 06/03/2021**Signature:** Dave Mankiewicz

**GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON FIELD OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. **If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.**

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

(October 2012 Revision)

P&A Procedure**Navajo Nation Oil & Gas Company – CBM 14-27-14 #1**

Basin Dakota

660' FNL & 661' FEL, Section 14, T27N, R14W

San Juan County, New Mexico, API #30-045-35299

Plug & Abandonment Procedure:

Note: All cement volumes use 100% excess outside casing and 50' excess inside pipe. Stabilizing wellbore fluid will be 8.33 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Class G neat 1.15 ft³/sk or equivalent. Cement calculation based on 5.5" 15.5# casing. Cement was circulated to surface during primary cement jobs on both the surface and production strings. This well was never completed.

Prior to Mobilization

1. Notify BLM & NN Minerals Dept
2. Verify all cement volumes based on actual slurry to be pumped. Calculations based on 1.15 ft³/sk.
3. Comply with all COA's from BLM & NN Minerals Dept

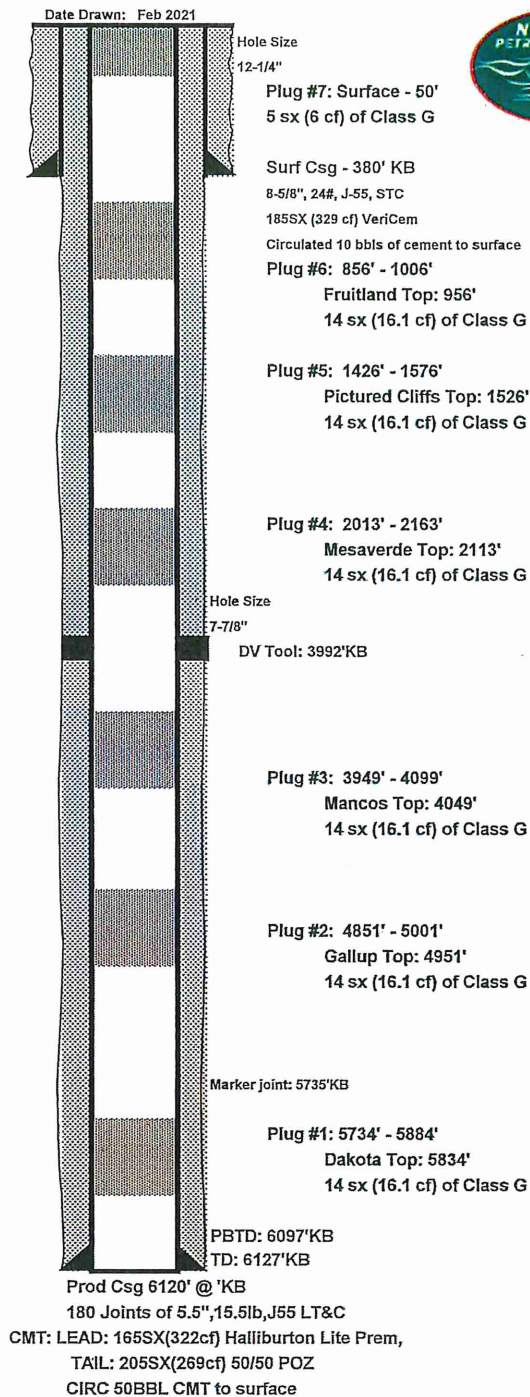
P&A Procedure

1. MIRU Service rig and cement equipment
2. ND WH, NU BOP, RU rig floor and 2 3/8" handling tools
3. Pressure test casing to 500 psi (note this well was never completed).
4. PU 2-3/8" workstring & TIH to 5834'. Load hole and circulate clean if necessary.
5. **Plug #1, 5734' – 5884' (Dakota Top at 5834', NO Perfs):** Mix & pump 14 sx (16.1 ft³) of Class G neat cement (or equivalent) in a balanced plug. PU to 5001' and reverse circulate to clean tubing.
6. **Plug #2, 4851' - 5001' (Gallup Top at 4951'):** Mix & pump 14 sx (16.1 ft³) of Class G neat cement (or equivalent) in a balanced plug. PU to 4099' and reverse circulate to clean tubing.
7. **Plug #3, 3949' – 4099' (Mancos Top at 4049').** Mix & pump 14 sx (16.1 ft³) of Class G neat cement (or equivalent) in a balanced plug. PU to 2163' and reverse circulate to clean tubing.
8. **Plug #4, 2013' – 2163' (Mesaverde Top at 2113').** Mix & pump 14 sx (16.1 ft³) of Class G neat cement (or equivalent) in a balanced plug. PU to 1576' and reverse circulate to clean tubing.
9. **Plug #5, 1426' – 1576' (Pictured Cliffs Top at 1526').** Mix & pump 14 sx (16.1 ft³) of Class G neat cement (or equivalent) in a balanced plug. PU to 1006' and reverse circulate to clean tubing.
10. **Plug #6, 856' – 1006' (Fruitland Top at 956').** Mix & pump 14 sx (16.1 ft³) of Class G neat cement (or equivalent) in a balanced plug. PU to 50' and reverse circulate to clean tubing.
11. **Plug #7, Surface – 50'. (Surface casing at 380')** Note: Circulated 10 bbls of cement to surface on primary surface casing cement job. Mix and pump ~5 sx (6 ft³) to fill inside of casing. Lay down remaining tubing & Top off as necessary.

12. ND BOP and cut off wellhead below surface casing flange, top off casing and annulus as necessary.
Install P&A marker and cut off and/or remove anchors. RD, MOL - Restore location as directed.

John Thompson
Engineer

[illegible]

[illegible][illegible]

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(October 2012 Revision)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: CBM 14-27-14 #1

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

3. The following modifications to your plugging program are to be made:

- a) Set Plug #1 (5847 – 5997) ft. to cover Dakota top. BLM picks top of Dakota at 5947 ft.
- b) Set Plug #2 (4772 - 4922) ft. to cover Gallup top. BLM picks top of Gallup at 4872 ft.
- c) Set Plug #3 (3913 - 4063) ft. to cover the Mancos top. BLM picks top of Mancos at 4013 ft.
- d) Set Plug #4 (1937 - 2087) ft. to cover the Mesaverde top. BLM picks top of Cliff House at 2037 ft.
- e) Set a cement plug (1537 - 1687) ft. to cover the Chacra top. BLM picks top of Chacra at 1637 ft.
- f) Set Plug #5 (1129 - 1279) ft. to cover the Pictured Cliffs top. BLM picks top of Pictured Cliffs at 1229 ft.
- g) Set Plug #6 (813 - 963) ft. to cover the Fruitland top. BLM picks top of Fruitland at 913 ft.
- h) Set Plug #7 380 ft. - surface to cover the surface casing string.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

BLM FLUID MINERALS Geologic Report

Date Completed: 6/10/2021

Well No. CBM 29-27-14 #13 (API# 30-045-35345)			Location	1017	FSL	&	1131	FWL
Lease No. NO-G-1008-1773			Sec. 29	T27N			R14W	
Operator NNOGC Exploration & Production, LLC			County	San Juan		State	New Mexico	
Total Depth 5878'		PBTD 5863'	Formation Dakota (PBTD)					
Elevation (GL) 5950'			Elevation (KB)					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/Fresh water sands
Nacimiento Fm					Fresh water sands
Ojo Alamo Ss					Aquifer (fresh water)
Kirtland Shale	Surf	789			Possible usable water near surface
Fruitland Fm	789	1097			Coal/Gas/Possible water
Pictured Cliffs Ss	1097	1199			Gas
Lewis Shale	1199	1433			
Chacra	1433	1867			
Cliff House (La Ventana) Ss	1867	2510			Water/Possible gas
Menefee Fm	2510	3582			Coal/Ss/Water/Possible O&G
Point Lookout Ss	3582	3823			Probable water/Possible O&G
Mancos Shale	3823	4605			
Gallup	4605	5600			O&G/probable water
Sanostee					
Graneros Shale	5600	5626			
Dakota Ss	5626	PBTD			Gas/potential oil/water
Morrison					Water/possible gas

Remarks:

P & A

- No well log available for the subject well, tops were estimated based on logs for Reference Wells. BLM formation top estimates vary from tops submitted by Operator. This well was not completed.
- Plug #2 (Gallup) should be brought up, or an additional plug added, to cover BLM Gallup formation top estimate @ 4605'.
- Plug #3 (Mancos) bottom should be adjusted to cover BLM Mancos formation top estimate @ 3823'.
- Plug #6 (Fruitland) bottom should be brought down, or an additional plug added, to adequately cover BLM Fruitland formation top estimate @ 789'.
- Recommend Plug #7 (Surface) be lengthened to cover below surface casing shoe @ 352'.

Reference Well:

1) Formation Tops

(Surf - Gallup)
Texaco, Inc.
Nav Tribal 'BK' #1
1980' FSL, 660' FWL
Sec. 29, 27N, 14W
GL 5923' KB 5936'

2) Formation Tops

(Graneros - Dakota)
Dugan Production Co.
Rex Uranium #3
990' FNL, 990' FWL
Sec. 18, 27N, 13W
GL 6055' KB 6067'

Prepared by: Chris Wenman

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 39741

COMMENTS

Operator: NNOGC EXPLORATION AND PRODUCTION, LLC 1625 Broadway Denver, CO 80202	OGRID: 292875
	Action Number: 39741
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 8/6/2021	8/6/2021

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State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 39741

CONDITIONS

Operator: NNOGC EXPLORATION AND PRODUCTION, LLC 1625 Broadway Denver, CO 80202	OGRID: 292875
	Action Number: 39741
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	8/6/2021
kpickford	Adhere to BLM COAs re:plug adjustments.	8/6/2021