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2. Nume of Operator       Contact:       PHILANA P THOMPSON       9. API Well No.         3s. Addres.       MERRINO KOIL & GAS CORP       E-Mail: phtmpson@memotiz.       10. Field and Pool of Exploratory Area         3s. Addres.       Ph. Phase No. (include area code)       10. Field and Pool of Exploratory Area       10. Field and Pool of Exploratory Area         4. Lection of Well ("rotages, cr. T. R. M., or Surry Description)       11. Comy of Paritis, State       11. Comy of Paritis, State         3dc.785369 N Lat, 108.003317 W Lon       12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION       Water Shato         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION       Water Shato         13. Basesupeut Report       Casing Repair       New Construction       Recomplete       Other         14. Thereby complete Operation. Clearly state all pertinent deaths, including estimated stating due of any proposal and approximate duration there cells and approximate duration there cells and approximate duration there estimate the casing. If the attempt is not successful       Off. Comp. Div Mater Bisposal         15. Describe Proposed or Completed Operations. Clearly state all pertinent deaths, including relimation and result and approximate duration there cells and approximate duration there cells and approximate duration there celearling thab the casing. If the attempt is not success	-	1. Type of Well				8. Well Name and No. FIFIELD COM 1Z				
3a. Address       b. Phone No. (include area code)       PARMINGTON, NM 57401-2634       Ph:: 505.324.5350       10. Field and Pool or Exploratory Area         4. Location of Well (Footgas, Src. T. R. M. or Survey Description)       Sa. 505.324.5350       11. Commy or Parish. State         5a. 6. 723N F11W SENE 1655FNL 904FEL       Sa. 5756369 N Lat, 108.009317 W Lon       11. Commy or Parish. State         5a. 7756369 N Lat, 108.009317 W Lon       CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION       Water Shut-On         Subsequent Report       Alter Casing       Bydraulic Fracturing       Recomplete         Subsequent Report       Casing Repair       New Construction       Recomplete       Other         Subsequent Report       Casing Repair       Plug and Abandon       Temporarily Abandon         Convert to Injection       Plug Back       Water Disposal         10. Beache Proposed or Completel Operations. Clearly atte all pertinent details, including estimated stating due of any proposed and approximate duration there estimate the encomplete' matching astate in a due work and approximate duration there estimated stating due is a report of the involved operation. Liftle operation clearly atter and only after all equilication in a new interval, a Form 31604 must be filed once testing back beer completed must be filed once estimated stating due is ready for file interaction work and approximate duration there on the testing babandos in the estimated stating due of any	-	2. Name of Operator MERRION OIL & GAS CORP	HOMPSON 9. API Well No. 30-045-33975-00-S1							
4. Location of Well       (Protage, Sec, T, K, M, or Survey Description)         Sec 5 T29N R11W SENE 1855ENL 904FEL       11. County or Parish, State         36.756389 N Lat, 108.009317 W Lon       12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Notice of Intent       Acidize       Deepen         Subsequent Report       Casing Repair       New Construction         Subsequent Report       Casing Repair       New Construction         Convert to Injection       Plug and Abandon       Temporarily Abandon         Convert to Injection       Plug Back       Water Disposed wet and approximate duration there or 10 the with BLMHA. Required subsequent Report and the work will be performed or provide the Bond No. on file with BLMHA. Required subsequer reports must be filed with 10 days are been completed. Filed Notices must be filed only after all requirements, including reclamation, have been completed all period reports and zones After the Bond under which the work will be performed or provide the Bond No. on file with BLMHA. Required subsequer toports must be filed with 10 days after all requirements, including reclamation, have been completed ML Filed Nathamane Notices must be filed only after all requirements, including reclamation, have been completed ML Filed Nathamane Notices must be filed only after all requirements, including reclamation, have been completed ML Filed Nathamane Notices must be filed only after all requirements, including reclamation there are the fold only after all requirements, including reclamation merece and the operator has determining on th	-	3a. Address 610 REILLY AVE FARMINGTON, NM 87401-2	3b. Phone No. (include area code) Ph: 505.324.5336 Fx: 505.324.5350			10. Field and Pool or Exploratory Area BASIN DAKOTA				
Sec 5 T20N R11W SENE 1856FNL 004FEL         36.766369 N Lat, 108.009317 W Lon         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA         TYPE OF SUBMISSION       TYPE OF ACTION         Notice of Intent       Acidize       Porture of Recompilet         Subsequent Report       Acidize       Porture of Recompilet       Other         Subsequent Report       Casing Repair       New Construction       Recompilet       Other         Final Abandonment Notice       Change Plans       Plug and Abandon       Tomporarily Abandon       Other         13. Describe Proprade of Completed Operation. Charly state all performed or provide the Bond No. on file with BLMBLA. Required subsequent reports must be filed with 10 0 days der balacobins and measure of all performed or provide the Bond Moder which the work will be performed or provide the Bond No. on file with BLMBLA. Required subsequent reports must be filed with 10 0 days der all equirements, including reclamation, have been completed and the operator has determined that the stoced of filed with a plug and abandon.         Please see the attached procedure.       Wherion Oil & Gas proposes to attempt to repair the casing. If the attempt is not successful       Off. CONS. Div DIST. 3         Notify NMOCD 2.4 hrs       Construction 8295063 verified by the BLM Well Information System       The REGULATORY COMPLIANCE SPEC         Notify NMOCD 2.4 hrs       Construction 1295063 verified by the BLM Well Information System       Dift. CONS. Div DIST. 3		4. Location of Well <i>(Footage, Sec., 1</i>				11. County or Parish, State				
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	(	(Instructions on page 2)						<b>•</b> **		

#### Proposed Bradenhead Repair / P&A Procedure

October 30, 2017

#### Fifield Com #1Z

## 1858' FNL and 904' FEL, Section 5, T-29-N, R-11-W San Juan County, NM, API 30-045-33975

- Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.
  - 1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
  - 2. Rods:
     Yes \_\_\_\_\_\_
     No \_\_\_\_\_\_, Unknown \_\_\_\_\_\_;

     Tubing:
     Yes \_\_X\_\_\_\_\_
     No \_\_\_\_\_\_, Unknown \_\_\_\_\_\_, Size \_2-3/8 \_\_\_\_\_, Length \_6486'\_\_\_\_\_;

     Packer:
     Yes \_\_\_\_\_\_\_
     No \_\_X\_\_\_\_\_Unknown \_\_\_\_\_\_, Type \_\_\_\_\_\_\_.
  - 3. Remove existing piping on casing valve. RU blow down lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCl as necessary. Ensure well is dead or on vacuum.
  - **4.** ND wellhead and NU BOPE. Pressure test and function test BOP. PU and remove tubing hanger. Tag fill; PU additional joints as needed. Drop standing valve and pressure test tubing. Record tag and advise Merrion engineer.
  - 5. TOH with tubing. LD and replace any bad joints. Make note of corrosion, scale or paraffin and save sample as appropriate.
  - 6. PU 4.5" casing scraper, roundtrip with scraper to ~6,600' KB. TOH and LD scraper.
  - 7. PU 4.5" RBP and packer TIH; set RBP at 6367'. Pull up, set packer, test RBP and dump sand on top of RBP.
  - 8. Load hole with fresh water. Attempt to pressure test 4.5" casing to 600 PSI for 30 minutes.
  - 9. PU packer and isolate the casing leak (s) top and bottom hole.
  - 10. Call Merrion engineer to discuss squeeze cement instructions. May further isolate the casing leaks by moving the RBP and packer. NOTE: You must notify the BLM and NMOCD agencies prior to doing any cement squeeze work.
  - **11.** Repair casing leak (s) per instruction with Class B cement or Ultra fine cement if necessary. Drill out cement and pressure test each leak zone for 500#. TOH with bit.

12. Pressure test casing to 500#

- Contact Merrion engineer with results and discuss plan forward. If test passes, then notify NMOCD of MIT test and pressure test the wellbore to 800# for 30 minutes on a 2 hr chart with 1000# spring.
- 14. Run a casing scraper. CO to RBP,- circulate well clean and swab well clean prior to releasing RBP. TOH with scraper and LD RBP and retrieving head. If the perforations are covered with fill then clean out by circulating or bailing or blowing with air.
- **15.** Run production tubing per instructions provided by Merrion. ND BOPE, NU wellhead. Notify Merrion engineer well is ready to return to production. IF casing does not test or decision is made to P&A well then continue on to #16.
- 16. NOTE: this procedure may be modified based on attempt to repair bradenhead.
- 17. RU wireline and run CBL.
- 18. NOTE: the following plugs are subject to change based on CBL results and the pressures tests performed in previous steps.
- Plug #1 (Dakota perforations and top, 6367' 6260'): RIH and set 4.5" cement retainer at 6367'. Pressure test tubing to 1000 PSI. Load casing with water and circulate well clean. Pressure test casing to 800#. <u>Spot or tag subsequent plugs as appropriate according to CBL and pressure test results.</u> Circulate well clean. Mix 12 sxs Class B cement inside casing from CR to isolate the Dakota interval. PUH.
- **20.** Plug #2 (Gallup top, 6495' 6395'): Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Gallup top. PUH.
- 21. Plug #3 (Mancos top, 4745' 4645'): Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Mancos top. PUH.
- 22. Plug #4 (Cliffhouse top, 3737' 3637'): Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Cliffhouse top. PUH.
- **23.** Plug #5 (Chacra top, 3046' -2946'): Mix and pump 12 sxs Class B cement and spot a balanced plug inside casing to cover the Chacra top. PUH.
- 24. Plug #6 (Pictured Cliffs and Fruitland tops, 1991' ~ 1422'): Mix and pump 44 sxs Class B cement and spot a balanced plug inside casing to through the Pictured Cliffs and Fruitland tops. TOH.
- **25.** Plug #7 Ojo Alamo and Kirtland tops, 808' 618'): If CBL shows no cement behind pipe then perforate HSC squeeze holes at 808'. Establish injection rate. RIH and set CR at 758'. TIH with tubing and sting into CR. Establish injection rate. Mix and pump 93 sxs Class B cement, squeeze 74 sxs outside casing and leave 19 sxs inside casing. If CBL shows cement behind pipe, mix and pump 20 sxs Class B cement and spot a balanced plug inside casing to cover the Ojo Alamo and Kirtland top. TOH and LD tubing.

- 26. Plug #8 (10.75" Surface casing shoe, 370' 0'): Perforate 3 squeeze holes at 370'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 120 sxs Class B cement and pump down the 4.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
- 27. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

Fifield Com #1Z

API 30-045-33975

Proposed Wellbore Configuration Location: 1858' fnl & 904' fel (se ne) Elevation: 5790' GL Sec 5, T29N, R11WNMPM 5802' KB San Juan Co, New Mexico Update: October 30, 2017 Top of Cmt @ Surface on both strings Bit Size 12 1/4" 8 5/8", 24#, J-55 Surface Csg @ 320' KB w/ 230 sx (264 cu ft) Class G Cement. Plug #8: 370' - 0' Class B cement, 120 sxs Perforate @ 370' Ojo Alamo - 668' Set CR @ 758' Plug #7: 808' - 618' Kirtland - 758' Class B cement, 93 sxs: Perforate @ 808' 19 inside and 74 outside Fruitland -1472' Plug #6: 1991' - 1422' Pictured Cliffs - 1941 Class B cement, 44 sxs Plug #5: 3046' - 2946' Chacra - 2996' Class B cement, 12 sxs Plug #4: 3737' - 3637' Cliffhouse - 3687' Class B cement, 12 sxs Plug #3: 4745' - 4645' Mancos Shale - 4695' Class B cement, 12 sxs Plug #2: 5630' - 5530' Gallup - 5580' Class B cement, 12 sxs Plug #1: 6367' - 6260' Greenhorn - 6310' Class B cement, 12 sxs Set CR @ 6367' Dakota - 6477' Perforate Graneros: 2 spf from 6,417-6,423 (12 holes total) Perforate Dakota: 1 spf from 6480' - 6,510' (30 holes total) Bit Size 77/8" CIBP @ 6,610' KB CIBPs @ 6,661' KB and 6,652' KB 4 1/2" 11.6# J55 Production Csg @ 6672' Lead: 1270 sx nitrified foam 50-50 pozmix Perforate Burro Canyon: 4 spf from 6665' - 6671' (24 holes total) Tail: 150 sx 50-50 poz CIBP @ 6,675' KB

PBTD @ 6610' KB TD @ 6687'KB



# 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: Fifield COM 1Z

## 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 #2 (5609 5509) ft. to cover the Gallup top. BLM picks Gallup top at 5559 ft.
- b) Set Plug #3 (4730 4630) ft. to cover the Mancos top. BLM picks Mancos top at 4680 ft.
- c) Set Plug #4 (3605 3505) ft. to cover the Cliffhouse top. BLM picks Cliffhouse top at 3555 ft.
- d) Set Plug #6 (2021 1561) ft. to cover the Pictured Cliffs and Fruitland tops. BLM picks top of Pictured Cliffs at 1971 ft. BLM picks top of Fruitland at 1611 ft.
- e) Set Plug #7 (806 595) ft. inside/outside to cover the Ojo Alamo interval and the Kirtland top. BLM picks top of Kirtland at 756 ft. BLM picks top of Ojo Alamo at 645 ft.

Operator will run CBL to surface to identify TOC. Submit the electronic copy of the log for verification to the following addresses: jwsavage@blm.gov Brandon.Powell@state.nm.us

Low concentrations of H2S (18 ppm - 20 ppm GSV) have been reported in wells within a 1 mile radius of this location.

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.