Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Amended

Form C-103
Revised July 18, 2013

WELL API NO. 30-045-33440

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Wilmerding 9

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

8. Well Number 3

2. Name of Operator
Enduring Resources

9. OGRID Number 372286

3. Address of Operator
332 Road 3100 Aztec NM 87410

10. Pool name or Wildcat
Basin Fruitland Coal

4. Well Location
Unit Letter C : 705 feet from the N line and 1481 feet from the W line
Section 10 Township 31N Range 13W NMPM County San Juan

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
5806' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER: Frac job	☒		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

NMOCD Recd
1-25-18-AV

12/14/2017

MIRU. TOH, LD rods-pump. SDFN.

12/15/2017

NU BOP, flow cross. BOPs 250 psig (low)-1200 psig (high) 5 min. Good

MU 6-1/8in bit, csg scraper. TIH w tbg to PBTD (0ft fill)

MIRU WL. Perf FRLDC: 2024 - 2036, 2013 - 2018, 1923 - 1925, 1906 - 1908, 1892 - 1896, 1885 - 1888, 1780 - 1787 (3 SPF-105 holes). RDMO WL.
MU pkr, frac sleeve asmbly on 2.865in N80 frac string, pups. XO to 3.5in P-110 frac string. TIH frac string. SDFN.

See attached for remainder of procedure. WBD attached.

Spud Date: 07/25/2007 Rig Release Date:

Conduct Braidenhead Test in 30days. Contact office for witness.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE April E Pohl TITLE Regulatory Specialist DATE 1/25/18

Type or print name April E Pohl E-mail address: apohl@enduringresources.com PHONE: 505-636-9722

For State Use Only

APPROVED BY: Charlie Perrin TITLE SUPERVISOR DISTRICT #3 DATE 1-25-2018

Conditions of Approval (if any): AV

Wilmerding 9-3 frac continued:

12/16/2017 Set top pkr. Land frac string. Fill frac string 2% KCl water, csg w same.
Test TCA 550 psig 15 min, good. Test frac string 5000 psig 10 min, good. RIH SL, pull plug from top pkr.
Test frac string, set hydraulic pkrs. Both pkrs set.
EOT @ 1941ft
PKR 1 @ 1929ft (elements)
PKR 2 @ 1791ft (elements)
PKR 3 @ 1742ft (elements)
RD floor. ND BOP & flow cross. NU 5K frac stack. Fill stack w/ambitrol.
Test frac stack 5000 psig 30 min. RIH SL - rupture disc @ btm of frac string.
RDMO to Moseley 1-2. FINAL REPORT FOR PREP FOR FRLDC FRAC. REPORTS WILL RESUME FOR FRAC OPS.
1/2/2018 MIRU frac. Press tests good. Load 1900in ball gray valve. Load 2.048in ball green valve.
Load frac string, est IR w 3233 gal fresh water. Pump 500 gal 15% HCl. Frac FC perfs 2013ft - 2038ft w 27163 gal Water Frac- G 20lb linear gel, 42561 gal Delta 140 20lb XL gel carrying 71270 lbs 20/40 sd. Max STP 3885 psig, avg STP 3368 psig, Max IR 30.0 BPM, avg IR 30.0 BPM.
Single pump KO @ 3800 psig on 2 ppg sand stage. Drop rate to 20 BPM. Continue pumping. Single pump KO again @ 3800 psig. Walking rate up, press broke 3600 psig to 1700 psig. No increase TCA press. No leaks surface lines-WH-frac stack seen. Cont pumping per design. Transducer on TCA connected to wrong input in van computer. Actual TCA pressure 215 psig. Cut sand. Flush. SD. Max recorded TCA press was 250 psig. Likely frac string failure.
SD job. Data recording, not displaying during job. Review of data, max press on TCA gauge 1500 psig, 1100 psi @ SD. Verified transducer calibrated wrong. Actual max TCA press 250 psig. BH press 0 psig. BD to tank. Bled down in 5 sec, no fluid. Pumped 80 bbls fresh wtr down tbg @ 5 BPM. Monitor TCA press-rising. Est comm between frac string- TCA. SD. SWI. Bled down TCA to fb tank. Tested seals on tbg hgr to 3850 psig good. Rig to verify frac string failure. RDMO.
1/4/2018 MIRU. RIH plug, set in frac string @ 1745ft. Test 2000 psig 30 min, good.
Load TCA, test 500 psig 30 min(<1 bbls to load). Good. (Note: Sqz holes @ 910ft held.)
1/5/2018 Plug in frac string @ 1745ft. Test 5000 psi 20 min, good. RIH SL, tag fill @ 2106ft (no perfs covered, 79ft fill).
ND frac valve, frac stack. NU mud cross & BOP. Install power swivel.
Try to release pkr, TOH w/frac string. Rotate, release top pkr. Pull 75,000 lbs, unset middle packer.
Approx 15in tbg stretch. Tbg rotating to R easily. After 2 hrs of working pipe, not as much stretch.
Pulled up to 90,000. Losing stretch, no rotation. Will return Mon to get frac string OOH.
1/8/2017 RU WL svc. RIH WL, free point . Bottom pkr not free only mid, top pkrs.
POOH WL. RIH WL cutter. Cut frac string 2.875in N-80 tbg at 1912ft - 10ft above top slips bttm pkr. POOH
TOH 1912ft frac string. Recover all 3.5in tbg, top pkr, mid packer, one frac sleeve to recover 10ft 2.875in tbg,
frac sleeve, bttm pkr. TIH 155ft fishing BHA overshot ,grapple, 50 jts 2.875in tbg. TIH to 1731ft. EOT 49ft above top perf.
1/9/2018 Begin circ abv fish. Pckg top of kelly leaking, fixed. Tag fill @ 1908ft. Top of fish 1912ft. Circ sm amts frac sand.
TOH fish. LD pkr-frac sleeve, both ok. Evidence of sand on pkr
TIH notched collar on 2.875in tbg. Tag fill at 2095'. Clean out w/AFU to 2186ft (PBTD, CIBP).
Circ clean w foam air. Stnd back 10 stnd to get above top perfs.
1/10/2018 TIH NC, 10 stands 2.875in tbg. Tag fill @ 2171ft (15ft fill).
Circ AFU, clean to PBTD (2186ft CIBP). Circ on bottom 30 min. TOH, stand back 2.875in tbg.
TIH 2.875in tbg. Tag fill @ 2181ft (5ft fill). TOH, LD tbg.
Remove annular. Change out slips, rams, elevators to run 2.375in tbg, wt 4.7lb J-55. SDFN.
1/11/2018 PU, TIH 2.375in prod tbg: 64 joints, SN, 4ft pup jt, 24ft sand screen, 8ft pup jt, BP. SN @ 2065ft. EOT @ 2103ft.
Load tbg 8 bbls water, test 1000 psi. Test good. Release press. RIH, retrieve sand line. Land tbg, ND BOP. NU WH.
TIH pump-rods: 1-.25in x16ft PR. 81 - .75in Rods - 4ft x 1.25in centralizer, 2in x 1.5in x 12ft RWAC pump. Space out.
Load tbg water. Long stroke pump, test tbg-pump 500 psi. Test good. RDMO.

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Revised July 18, 2013

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OIL CONS. DIV DIST. 3
JAN 19 2018

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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE April E Pohl TITLE Regulatory Specialist DATE 1/18/2018

Type or print name April E Pohl E-mail address: apohl@enduringresources.com PHONE: 505-636-9722

For State Use Only

APPROVED BY: Charlie Perrin TITLE SUPERVISOR DISTRICT #3 DATE 1-24-2018
Conditions of Approval (if any):

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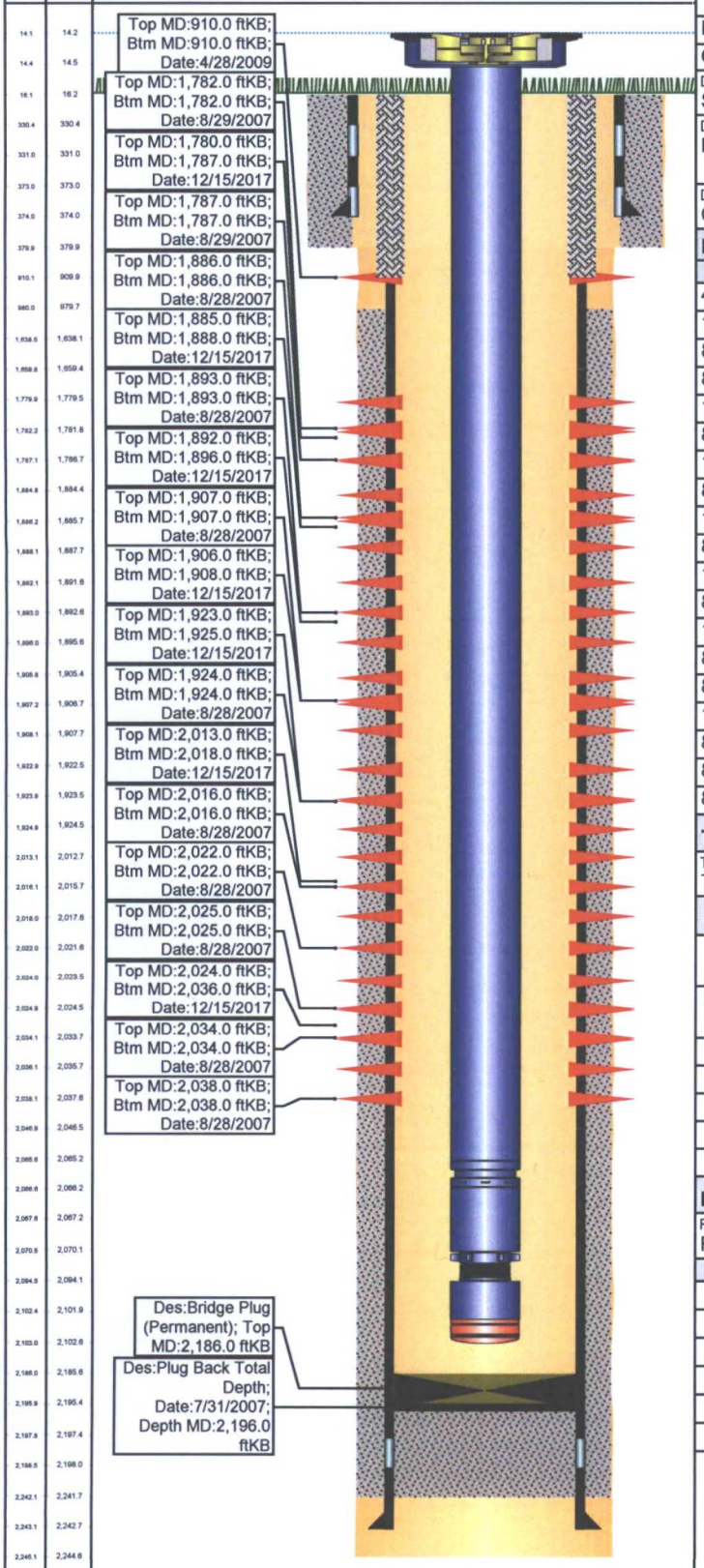
ERC - Current WBD

Well Name: Wilmerding 9-3

API/UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type
3004533440		Basin(New Mexico)	000000	New Mexico	Land
Original KB Elevation (ft)	**KB-Tubing Head Distance (ft)**	**Spud Date**	**Rig Release Date**	**PBTD (All) (ftKB)**	**Total Depth All (TVD) (ftKB)**
5,813.00		7/25/2007 00:00		Original Hole - 2,196.0	

Land, Original Hole, 1/17/2018 12:00:21 PM



Casing Strings

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Top (ftKB)	Set Depth (ftKB)
Surface	9 5/8	36.00	J-55	EXT-UPSET	16.1	374.0
Production Casing	7	23.00	N-80	LT&C	16.0	2,243.2

Cement

Description	Comment
Surface Casing Cement	190 sx, circ cmt to surface
Production Casing Cement	440 sx, did not circ cmt to surface, TOC @ 980' (CBL)
Cement Squeeze	sqz holes @ 910', circ cmt to surface

Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)
4/28/2009	910.0	910.0	4.0
12/15/2017	1,780.0	1,787.0	3.0
8/29/2007	1,782.0	1,782.0	3.0
8/29/2007	1,787.0	1,787.0	3.0
12/15/2017	1,885.0	1,888.0	3.0
8/28/2007	1,886.0	1,886.0	3.0
12/15/2017	1,892.0	1,896.0	3.0
8/28/2007	1,893.0	1,893.0	3.0
12/15/2017	1,906.0	1,908.0	3.0
8/28/2007	1,907.0	1,907.0	3.0
12/15/2017	1,923.0	1,925.0	3.0
8/28/2007	1,924.0	1,924.0	3.0
12/15/2017	2,013.0	2,018.0	3.0
8/28/2007	2,016.0	2,016.0	3.0
8/28/2007	2,022.0	2,022.0	3.0
12/15/2017	2,024.0	2,036.0	3.0
8/28/2007	2,025.0	2,025.0	3.0
8/28/2007	2,034.0	2,034.0	3.0
8/28/2007	2,038.0	2,038.0	3.0

Tubing Strings

Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Tubing - Production	1/11/2018	2,089.00	2,103.0

Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	Grade	Wt (lb/ft)
1	Tubing Hanger	6.338	0.50	14.0	14.5		
64	Tubing	2 3/8	2,051.00	14.5	2,065.5	J-55	4.70
1	Pump Seating Nipple	2 3/8	1.00	2,065.5	2,066.5		
1	Tubing	2 3/8	4.00	2,066.5	2,070.5	J-55	4.70
1	Wirewrap Screen	2 3/8	24.00	2,070.5	2,094.5		
1	Tubing	2 3/8	8.00	2,094.5	2,102.5	J-55	4.70
1	Bull Plug	2 3/8	0.50	2,102.5	2,103.0		

Rod Strings

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)
Rod	1/11/2018	2,069.00	2,077.0

Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Polished Rod	1 1/4	16.00	8.0	24.0
1	Sucker Rod	3/4	4.00	24.0	28.0
1	Sucker Rod	3/4	8.00	28.0	36.0
81	Sucker Rod	3/4	2,025.00	36.0	2,061.0
1	Rod Centralizer	1 1/4	4.00	2,061.0	2,065.0
1	Rod Pump	2	12.00	2,065.0	2,077.0