

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-045-33472

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Moseley 1

8. Well Number 2

9. OGRID Number 372286

10. Pool name or Wildcat
Basin Fruitland Coal

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.)

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

2. Name of Operator
Enduring Resources

3. Address of Operator
332 Road 3100 Aztec NM 87410

4. Well Location

Unit Letter F : 1398 feet from the N line and 1464 feet from the W line

Section 1 Township 31N Range 13W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5744' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
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.

12/16/2017 MIRU.

12/18/2017 ND WH, NU BOP, flowcross. PT BOP 250 psi (low) - 1500 psi (high) 5 min, tests good. MU 6-1/8in bit, & csg scraper on tbg. TIH to PBTD (no fill). TOH tbg, scraper, bit.

MIRU WL. Perf FRLDC: 1876 - 1880, 1855 - 1857, 1821 - 1823, 1816 - 1818, 1804 - 1807 (3 SPF, 120 deg phasing, 39 holes).

POOH w/guns. RDMO WL.

MU pkr, sleeve asmbly 2-7/8in N80 frac string. TIH pkr, sleeve assembly 3-1/2in P110 frac string. TIH to setting depth.

OILCONS. DIV DIST. 3

JAN 22 2018

See attached for remainder of procedure. WBD attached.

Spud Date: 01/23/2008

Rig Release Date:

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 1/22/2018

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

For State Use Only

APPROVED BY: Bob Roll TITLE Deputy Oil & Gas Inspector, District #3 DATE 2/6/18
Conditions of Approval (if any):

Moseley 1-2 frac 2018

12/19/2017 Load frac string 2% KCL water, PT frac string 5K psig 30 min. Test good. Set mech (top) pkr, Load TCA 2% KCl water. PT TCA to 1K psig 30 min. Test good. RIH, retrieve plug from profile in mech pkr.
Pressure frac string set hyd pkrs. Pkrs set @ 1850 psig.
EOT @ 1897ft
PKR 1 @ 1885ft (elements) PKR 2 @ 1827ft (elements) PKR 3 @ 1747ft (elements)
Hold 1,850 psig on frac string 10 min.
ND BOP, flowcross. NU 5K frac stack. PT 5K psig 30 min, good. PT secondary seals 5K psig, good. RIH SL. Knock out burst disc in btm pkr.
RDMO. Final report for frac prep. Reports resume with frac ops.

12/31/2017 Frac lower FC perfs 2010 - 2042 down 3-1/2in frac string. Load, break 1970 gal water. Pump 500 gal 15% HCl. Pump 28603 gal Water-Frac G 20lb linear gel & 65709 gal Delta 140 20lb XL gel carrying 147500 lbs 20/40 Brady sand. 3, 4, 5 ppg stages coated w/SandWedge NT. Max rate 30 BPM, max STP 3225 psig, avg rate 30 BPM, avg STP 2,848 psig, max sand conc 5 ppg.
Flushed 1397 gal Water Frac G (10 bbls past btm perf, clear frac string to ensure good ball drop, sleeve shift). ISIP 1536 psig (FG = 1.20 psi/ft).
Drop 1.900in frac ball. Displace ball to sleeve w/water @ 5 BPM. Sleeve shifted. Max pressure 3078 psig. Frac middle FC perfs 1854 - 1881 down 3-1/2in frac string. Load, break 1064 gal water. Pump 500 gal 15% HCl. Pump 14467 gal Water-Frac G 20lb linear gel, 37482 gal Delta 140 20lb XL gel carrying 80200 lbs 20/40 Brady sand. 3, 4, 5 ppg stages coated w/SandWedge NT. Max rate 30 BPM, max STP 3078 psig, avg rate 30 BPM, avg STP 2633 psig, max sand conc 5 ppg. Flushed 1136 gal Water Frac G (10 bbls past sleeve, clear frac string to ensure good ball drop, sleeve shift). ISIP 1,463 psig (FG = 1.22 psi/ft).
Drop 2.048in frac ball. Displace ball to sleeve water @ 5 BPM. Sleeve shifted. Max pressure 3087 psig. Frac upper FC perfs 1802 - 1823 down 3-1/2in frac string. Load, break 1298 gal water. Pump 500 gal 15% HCl. Pump 11074 gal Water-Frac G 20lb linear gel, 19601 gal Delta 140 20lb XL gel carrying 23980 lbs 20/40 Brady sand. 3 ppg stage coated SandWedge NT.
Max rate 31 BPM, max STP 3087 psig, avg rate 25 BPM, avg STP 2533 psig, max sand conc 5 ppg. Flushed 1165 gal Water Frac G (10 bbls past sleeve). SD after flushing frac string after 0.25 ppg sand stage. TCA pressure climbing steadily. Max pressure 25 psig. Bleed off pressure, monitor. Stayed at 0. Resume job. SD during 2.5 ppg sand stage.
Resume job at 20 BPM. Ramp to 3 ppg sand stage. TCA pressure steadily climb to 175 psig. Cut sand, flush, SD. Possible packer failure. Pumped 40% of design sand weight on final stage. RDMO.

1/5/2018 MIRU. ND frac stack, NU BOP, RU floor, RU pipe handling equip. SDFWE.

1/8/2018 MU 3-1/2in pup jt on swivel, screw in hanger, PU hanger, release pk by pulling 43K, came free. TOH 3-1/2in frac string, MU 3-1/2in elevators, BOP csg rams use 2-3/8in.
MU 6-1/8in bit, bit sub w float, 2-3/8in tbq. TIH 2-3/8in tbq, bit. Tag fill @t 2011ft (31ft perfs covered, 202ft fill total).
TOOH 4 stands of 2-3/8in tbq above the top perfs, SDFN

1/9/2018 TIH to 2011ft bit, bit sub, tbq to c/ot WB.
Start AFU pumping 10 BPH, 1 gal foam/hr, 1 gal inhibitor/hr, pumping at 300 psi, returns 10 BPH. C/O to 2213ft PBTD. Maintain pump rate, returns thru day for 8.5 hours. WB clean, TOH 8 stds tbq above top perfs.

1/10/2018 TIH check fill, tag @ 2210ft (3ft fill) Land 2.365", 4.5lb, J-55 tbq @ 2107ft. SN @ 2069ft.
BHA consists of:
BP 8ft x 2.625in pup joint 24ft tubing screen 4ft x 2.365in pup jt SN
65 jts 2.365in, 14.5lb, J-55 tbq to surf
RU swab lubricator, make 4 runs, water level approx 1800ft 1st run. ND BOP, NU WH, TIH pump and rods.
Load hole fluid, test tbq 500 psi, test good. Long stroke pump 520 psi, test good. Clamp off polish rod @ 6in abv tag. Rod string consists of:
2in x 1.5in x 12ft RWAC pump w/2ft PA 60-ring plngr, sand check
4ft guided rod 8 - 1.25in sinker bars 73 - .75in plain rods 2 - 6ft x .75in pony rods 16ft x 1.25in polish rod
RDMO.

Well Name: Moseley 1-2

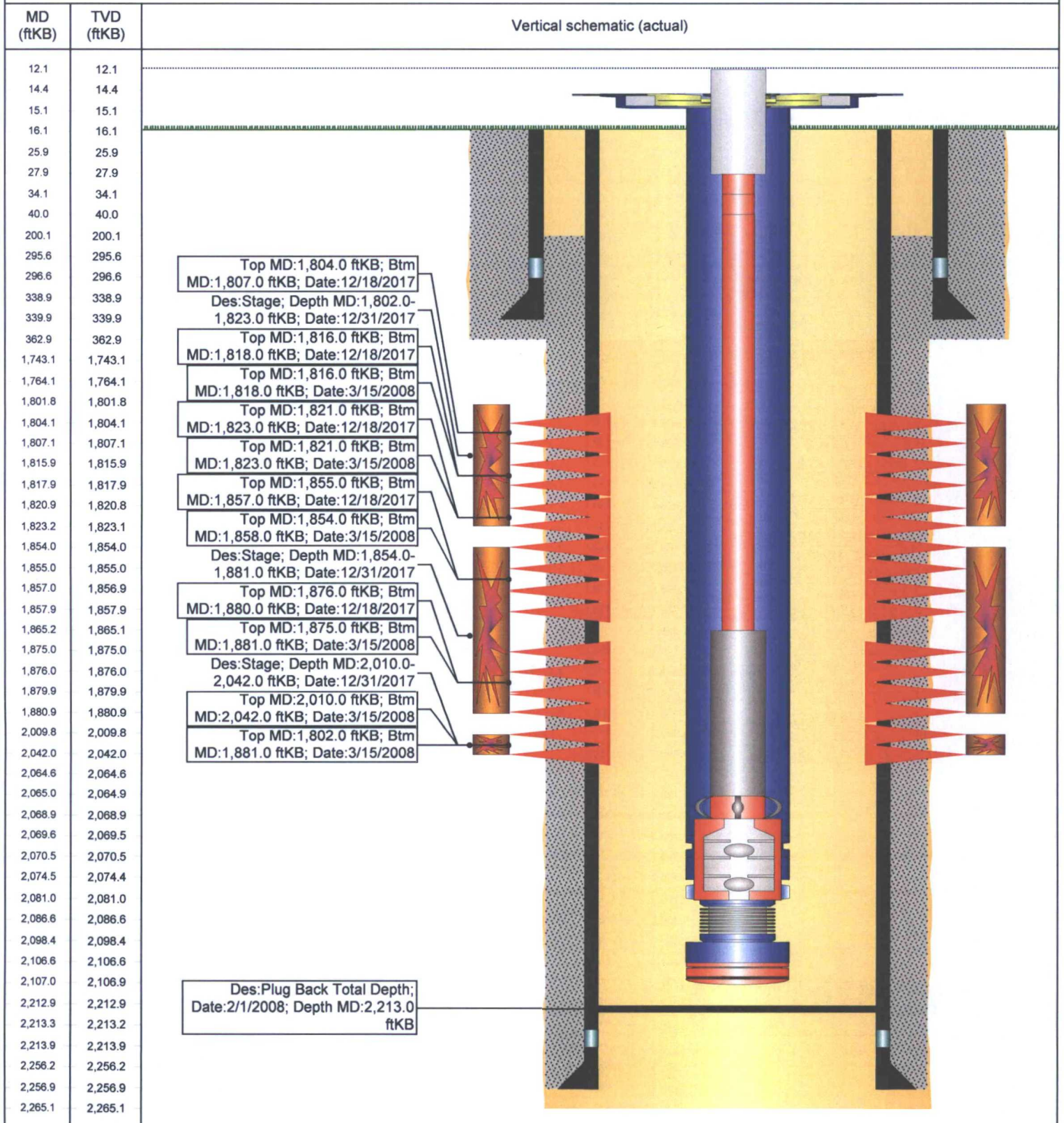
API/UWI 3004533472	Surface Legal Location	Field Name Basin(New Mexico)	License # 000000	State/Province New Mexico	Well Configuration Type Land
Original KB Elevation (ft) 5,760.00	KB-Tubing Head Distance (ft)	Spud Date 1/23/2008 00:00	Rig Release Date	PBTD (All) (ftKB) Original Hole - 2,213.0	Total Depth All (TVD) (ftKB)

Most Recent Job

Job Category Completion/Workover	Primary Job Type Recompletion	Secondary Job Type Refrac	Start Date 12/16/2017	End Date 1/10/2018
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TD: 2,265.0

Land, Original Hole, 1/22/2018 6:59:51 AM

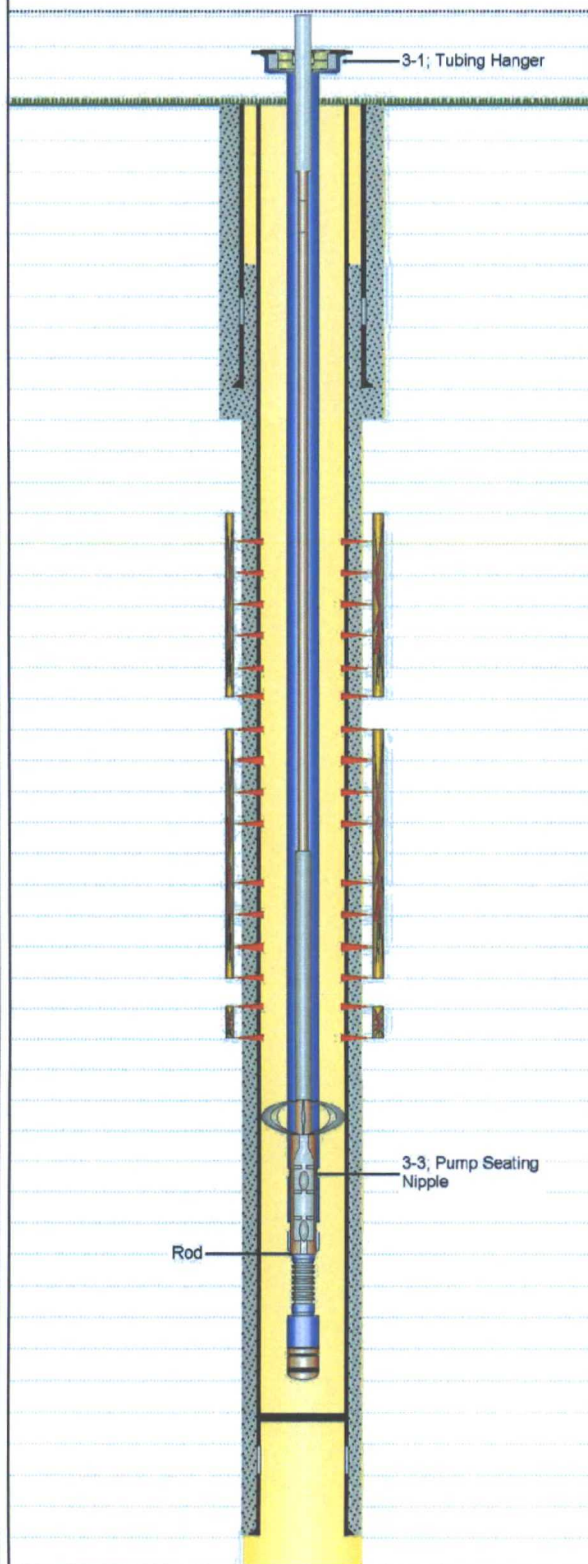


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Land, Original Hole, 1/12/2018 7:51:51 AM

Vertical schematic (actual)



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	LTC	16.0	340.0
Production	7	23.00	N80	LTC	16.0	2,257.0

Cement

Description: Production Casing Cement
Comment: 375 sx 50:50 G:POZ, 13.1 ppg, 1.41 cuft/sx, circ 1 bbl cmt to surface, TOC @ 200' (CBL)

Description: Surface Casing Cement
Comment: 200 sx CI G, 15.6 ppg, 1.2 cuft/sx, circ 43 sx to surf

Perforations

Date	Top (ftKB)	Btm (ftKB)
3/15/2008	1,802.0	1,881.0
12/18/2017	1,804.0	1,807.0
12/18/2017	1,816.0	1,818.0
3/15/2008	1,816.0	1,818.0
12/18/2017	1,821.0	1,823.0
3/15/2008	1,821.0	1,823.0
3/15/2008	1,854.0	1,858.0
12/18/2017	1,855.0	1,857.0
3/15/2008	1,875.0	1,881.0
12/18/2017	1,876.0	1,880.0
3/15/2008	2,010.0	2,042.0

Tubing Strings

Tubing Description		Run Date		String Length (ft)		Set Depth (ftKB)	
Tubing - Production		1/10/2018		2,092.50		2,107.0	
Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)		
1	Tubing Hanger	6.338	0.50	14.5	15.0		
65	Tubing	2 3/8	2,054.50	15.0	2,069.5		
1	Pump Seating Nipple	2 3/8	1.00	2,069.5	2,070.5		
1	Tubing	2 3/8	4.00	2,070.5	2,074.5		
1	Wirewrap Screen	2 3/8	24.00	2,074.5	2,098.5		
1	Tubing	2 3/8	8.00	2,098.5	2,106.5		
1	Bull Plug	2 3/8	0.50	2,106.5	2,107.0		

Rod Strings

Rod Description		Run Date		String Length (ft)		Set Depth (ftKB)	
Rod		1/10/2018		2,069.00		2,081.0	
Jts	Item Des			OD (in)	Len (ft)	Top (ftKB)	Etm (ftKB)
1	Polished Rod			1 1/4	16.00	12.0	28.0
1	Sucker Rod			3/4	6.00	28.0	34.0
1	Sucker Rod			3/4	6.00	34.0	40.0
73	Sucker Rod			3/4	1,825.00	40.0	1,865.0
8	Sinker Bar			1 1/4	200.00	1,865.0	2,065.0
1	Rod Centralizer			1 1/4	4.00	2,065.0	2,069.0
1	Rod Pump			2	12.00	2,069.0	2,081.0