

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.5. Lease Serial No.
NMSF078362

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM1328298. Well Name and No.
NE CHACO COM 169H9. API Well No.
30-039-31211-00-S110. Field and Pool or Exploratory Area
CHACO UNIT NE HZ

11. County or Parish, State

RIO ARRIBA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

ENDURING RESOURCES LLC

Contact: HEATHER HUNTINGTON

E-Mail: hhuntington@enduringresources.com

3a. Address

1050 17TH STREET SUITE 2500
DENVER, CO 80265

3b. Phone No. (include area code)

Ph: 505-636-9751

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 12 T23N R7W SWNW 1524FNL 0262FWL
36.242740 N Lat, 107.535340 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	☐ Production (Start/Resume)	☐ Water Shut-Off	
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	Workover Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ 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 recompleat 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Enduring Resources performed a workover to repair the rod-pump completion. An updated schematic is attached.

Job Start: 10/06/2020

Job End: 10/08/2020

EOT: 5,430? MD

SN: 5,363? MD

TAC: 4,943? MD

NMOC D REC'D
11-20-20

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #534320 verified by the BLM Well Information System
For ENDURING RESOURCES LLC, sent to the Farmington
Committed to AFMSS for processing by JOE KILLINS on 11/12/2020 (21JK0020SE)

Name (Printed/Typed) HEATHER HUNTINGTON

Title PERMITTING TECHNICIAN

Signature (Electronic Submission)

Date 10/16/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

JOE KILLINS
ENGINEER

Date 11/12/2020

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 Farmington

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #534320

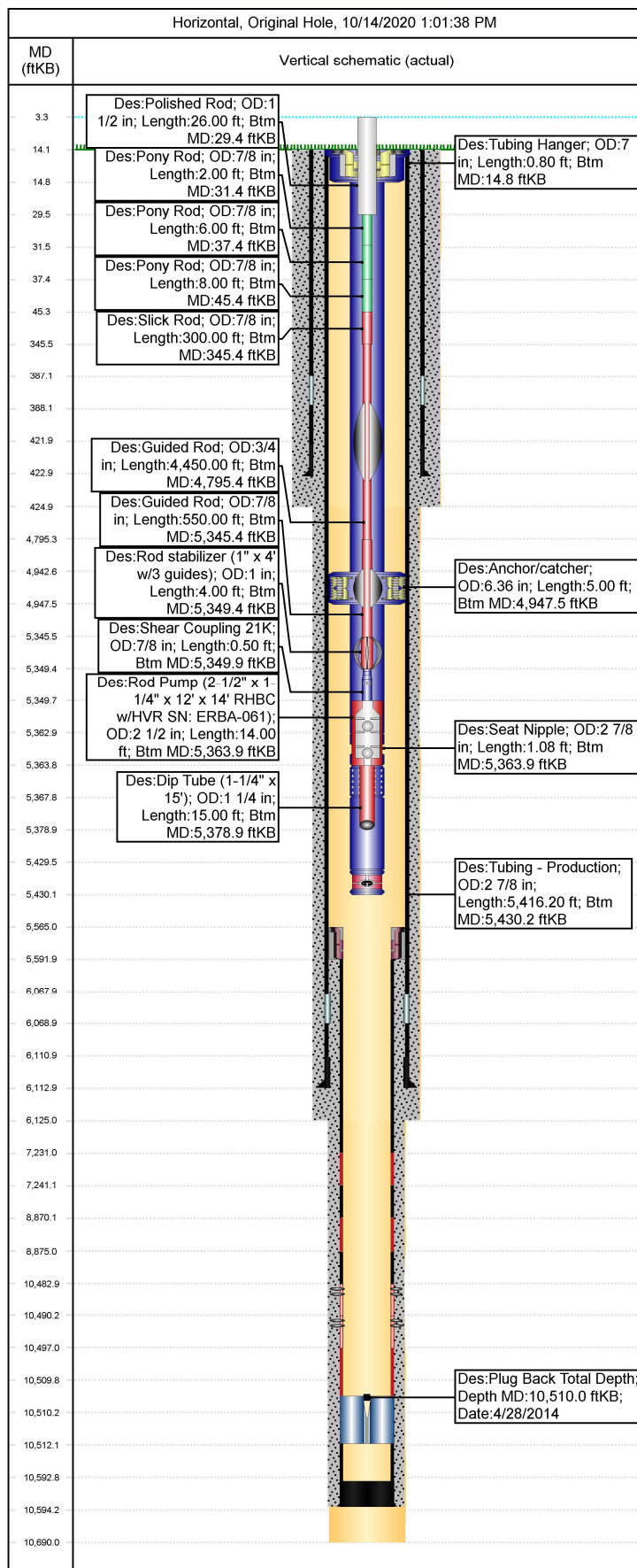
	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	WRK SR	WRK SR
Lease:	NMSF078362	NMSF078362
Agreement:	NMNM132829	NMNM132829 (NMNM132829)
Operator:	ENDURING RESOURCES 200 ENERGY COURT FARMINGTON, NM 87401 Ph: 505-636-9751	ENDURING RESOURCES LLC 1050 17TH STREET SUITE 2500 DENVER, CO 80265 Ph: 3035731222
Admin Contact:	HEATHER HUNTINGTON PERMITTING TECHNICIAN E-Mail: hhuntington@enduringresources.com Ph: 505-636-9751	HEATHER HUNTINGTON PERMITTING TECHNICIAN E-Mail: hhuntington@enduringresources.com Ph: 505-636-9751
Tech Contact:	HEATHER HUNTINGTON PERMITTING TECHNICIAN E-Mail: hhuntington@enduringresources.com Ph: 505-636-9751	HEATHER HUNTINGTON PERMITTING TECHNICIAN E-Mail: hhuntington@enduringresources.com Ph: 505-636-9751
Location: State: County:	NM RIO ARRIBA	NM RIO ARRIBA
Field/Pool:	CHACO UNIT NE HZ OIL	CHACO UNIT NE HZ
Well/Facility:	NE CHACO COM 169H Sec 12 T23N R7W 1524FNL 262FWL	NE CHACO COM 169H Sec 12 T23N R7W SWNW 1524FNL 0262FWL 36.242740 N Lat, 107.535340 W Lon



Enduring Resources IV - Production WBD

Well Name: NE CHACO COM 169H

API/UWI 30-039-31211	Surface Legal Location SWNW 12 (Unit E) T23N R07W	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 7,053.01	KB-Tubing Head Distance (ft)	Spud Date 3/6/2014 08:00	Rig Release Date 4/4/2014 19:00	PBTD (All) (ftKB) Original Hole - 10,510.0	Total Depth All (TVD) (ftKB) Original Hole - 5,508.8



Wellbore Sections								
Section Description Surface Hole	Size (in) 12 1/4	Act Top (ft... 14.0	Act Top (T... 14.0	Act Btm (ft... 425.0	Act Btm (T... 425.0			
Section Description Intermediate Hole	Size (in) 8 3/4	Act Top (ft... 425.0	Act Top (T... 425.0	Act Btm (ft... 6,125.0	Act Btm (T... 5,637.1			
Section Description Production Hole	Size (in) 6 1/8	Act Top (ft... 6,125.0	Act Top (T... 5,637.1	Act Btm (ft... 10,690.0	Act Btm (T... 5,508.8			
Rod Strings								
Rod Description Rod	Run Date 10/8/2020	String Length (ft) 5,375.50		Set Depth (ftKB) 5,378.9				
Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)			
Polished Rod	1	1 1/2	26.00	3.4	29.4			
Pony Rod	1	7/8	2.00	29.4	31.4			
Pony Rod	1	7/8	6.00	31.4	37.4			
Pony Rod	1	7/8	8.00	37.4	45.4			
Slick Rod	12	7/8	300.00	45.4	345.4			
Guided Rod	178	3/4	4,450.00	345.4	4,795.4			
Guided Rod	22	7/8	550.00	4,795.4	5,345.4			
Rod stabilizer (1" x 4' w/3 guides)	1	1	4.00	5,345.4	5,349.4			
Shear Coupling 21K	1	7/8	0.50	5,349.4	5,349.9			
Rod Pump (2-1/2" x 1-1/4" x 12' x 14' RHBC w/HVR SN: ERBA-061)	1	2 1/2	14.00	5,349.9	5,363.9			
Dip Tube (1-1/4" x 15')	1	1 1/4	15.00	5,363.9	5,378.9			
Tubing - Production set at 5,430.2ftKB on 10/7/2020 10:30								
Tubing Description Tubing - Production	Run Date 10/7/2020	String Length (ft) 5,416.20		Set Depth (ftKB) 5,430.2				
Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	1			7	2.44	0.80	14.0	14.8
Tubing	157	J-55	6.50	2 7/8	2.44	4,927.67	14.8	4,942.5
Anchor/catcher	1			6.36	2.44	5.00	4,942.5	4,947.5
Tubing	13	J-55	6.50	2 7/8	2.44	415.33	4,947.5	5,362.8
Seat Nipple	1			2 7/8	2.28	1.08	5,362.8	5,363.9
Perforated Sub	1	J-55	6.50	2 7/8	2.44	4.00	5,363.9	5,367.9
Tubing	2	L-80	6.50	2 7/8	2.44	61.72	5,367.9	5,429.6
Purge Valve	1			2 7/8	0.50	0.60	5,429.6	5,430.2
Surface Casing, 423.0ftKB								
OD (in) 9 5/8	Wt/Len (lb/ft) 36.00	String Grade J-55	Top Connection LT&C		Top (ftKB) 14.0	Set Depth (ftKB) 423.0		
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)		
Casing Joints			1	373.00	14.0	387.0		
Float Collar				1.00	387.0	388.0		
Casing Joints				34.00	388.0	422.0		
Float Shoe				1.00	422.0	423.0		
Intermediate Casing, 6,113.0ftKB								
OD (in) 7	Wt/Len (lb/ft) 23.00	String Grade J-55	Top Connection LT&C		Top (ftKB) 14.0	Set Depth (ftKB) 6,113.0		
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)		
Casing Joints			1	6,054.01	14.0	6,068.0		
Float Collar			1	1.00	6,068.0	6,069.0		
Casing Joints			1	42.00	6,069.0	6,111.0		
Float Shoe			1	2.00	6,111.0	6,113.0		
PRODUCTION LINER #1, 10,594.0ftKB								
OD (in) 4 1/2	Wt/Len (lb/ft) 11.60	String Grade N-80	Top Connection LT&C		Top (ftKB) 5,565.0	Set Depth (ftKB) 10,594.0		
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)		
Liner Hanger				27.00	5,565.0	5,592.0		
Casing Joints			42	1,639.00	5,592.0	7,231.0		
Casing Pup Joint			1	10.00	7,231.0	7,241.0		
Casing Joints			41	1,629.00	7,241.0	8,870.0		
Casing Pup Joint			1	5.00	8,870.0	8,875.0		



Enduring Resources IV - Production WBD

Well Name: NE CHACO COM 169H

API/UWI 30-039-31211	Surface Legal Location SWNW 12 (Unit E) T23N R07W	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 7,053.01	KB-Tubing Head Distance (ft)	Spud Date 3/6/2014 08:00	Rig Release Date 4/4/2014 19:00	PBTD (All) (ftKB) Original Hole - 10,510.0	Total Depth All (TVD) (ftKB) Original Hole - 5,508.8

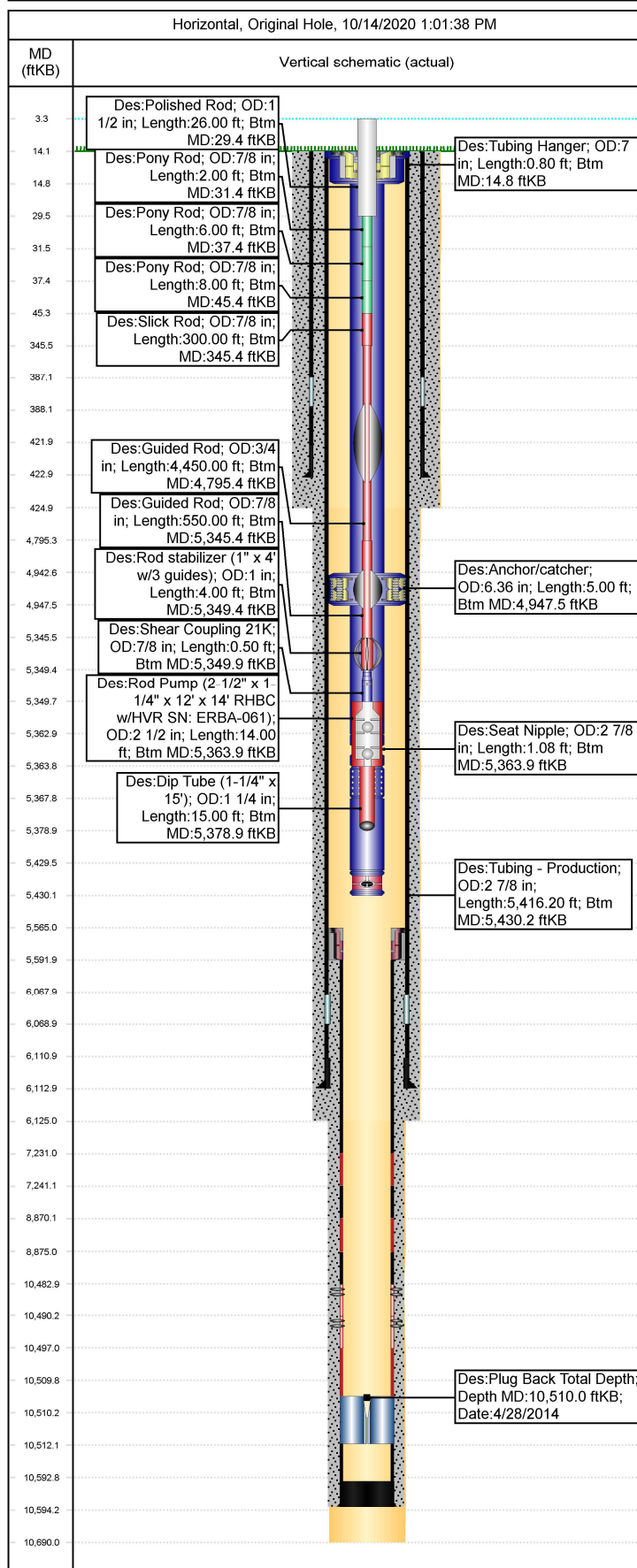
Horizontal, Original Hole, 10/14/2020 1:01:42 PM		Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
MD (ftKB)	Vertical schematic (actual)	Casing Joints	40	1,608.00	8,875.0	10,483.0	
		RSI Frac Sleeve		7.00	10,483.0	10,490.0	
		RSI Frac Sleeve		7.00	10,490.0	10,497.0	
		Casing Pup Joint	1	13.00	10,497.0	10,510.0	
		Float Collar / Landing Collar		2.00	10,510.0	10,512.0	
		Casing Joints	2	81.00	10,512.0	10,593.0	
		Float Shoe		1.00	10,593.0	10,594.0	
		Cement					
		Description Surface Casing Cement	Cementing Start Date 3/6/2014	Cementing End Date 3/6/2014			
		Comment Pump 10 bbls FW spacer, & 50.1 bbls Type G cmt (245 sxs) @ 15.8 PPG. Drop plug & disp w/ 29.7 bbls H2O. Bump plug @ 214 psi. Circ 20 bbls good cmt to surface.					
Description Intermediate Casing Cement	Cementing Start Date 3/28/2014	Cementing End Date 3/28/2014					
Comment Pump 10 bbl fw spacer ahead, 40 bbl chem wash spacer, 20 bbl scavenger 0.2% veraset, 0.15% halad-766, [wt= 11.5 ppg yld=2.15] Foamed lead cmt 690 sks, 1007 cu ft, 179 bbl, Elastiseal cmt 0.2% veraset, 0.15% halad-766, 1.5% chem foamer, [wt= 13 ppg, yld=1.46] Tail cmt 100 sks, 130 cu ft, 23 bbl Halsem cmt 0.2% veraset, 0.15% halad-766, [wt=13.5 ppg yld=1.3] Drop top plug,displace 7" csg w/ 241 bbl drlg mud @ 8.5 ppg, Late pressure 850# bump plug press up to 1952# [floats held ok] [Circ out 20 bbls scavenger cmt & 15 bbls foamed cmt to pit] Cap cmt , 100 sks, 100 cu ft, 20 bbl Halsem cmt 2% CACL [wt=15.8 ppg yld=1.1] [P.D. @ 3:25 HRS 3/28/14]							
Description Production Casing Cement	Cementing Start Date 4/3/2014	Cementing End Date 4/4/2014					
Comment 10 Bbl FW,40 Bbl Tuned Spacer,10 Bbl FW,Cap =40sx elastiseal (10.2 Bbl,57cf) +0.2%Versaset+0.15%Halad-766+0.2% Halad-344+6.92wgps (13ppg,1.43yld) Foamed Lead= 255sx eelastiseal (66Bbl,365cf) +0.2%Versaset+0.15%Halad-766+0.2%Halad-344+2.5% ChemFoamer+6.92wgps(13ppg,1.43yld) Tail = 100sx Elastiseal (23.2Bbl,130cf) + 0.2%Versaset+0.2%+0.2% Halad-766+ 0.05% SA-110+5.81wgps (13.5ppg,1.3 Yld)Led S/M running csg,only 1 jt in v-door @ a time,snub in @ v-door. Cmt Liner, wash lines & drop dart plug,Disp W/ 127.5 Bbl 2% KCL,final press 979# bump plug to 1560#,check float,held. Plug dn @ 06:55, 4/3/14. Drop ball & press to 3400#, set Hanger, PU100K,slack off 100K, Set. Release F/ Hanger & sting out pumping 170 Bbl 2% KCL, 32 Bbl Foam Cmt to pi							
3.3	Des:Polished Rod; OD:1 1/2 in; Length:26.00 ft; Btm MD:29.4 ftKB						
14.1	Des:Pony Rod; OD:7/8 in; Length:2.00 ft; Btm MD:31.4 ftKB	Des:Tubing Hanger; OD:7 in; Length:0.80 ft; Btm MD:14.8 ftKB					
14.8							
29.5	Des:Pony Rod; OD:7/8 in; Length:6.00 ft; Btm MD:37.4 ftKB						
31.5							
37.4	Des:Pony Rod; OD:7/8 in; Length:8.00 ft; Btm MD:45.4 ftKB						
45.3							
345.5	Des:Slick Rod; OD:7/8 in; Length:300.00 ft; Btm MD:345.4 ftKB						
387.1							
388.1							
421.9	Des:Guided Rod; OD:3/4 in; Length:4,450.00 ft; Btm MD:4,795.4 ftKB						
422.9							
424.9	Des:Guided Rod; OD:7/8 in; Length:550.00 ft; Btm MD:5,345.4 ftKB						
4,795.3							
4,942.6	Des:Rod stabilizer (1" x 4' w/3 guides); OD:1 in; Length:4.00 ft; Btm MD:5,349.4 ftKB	Des:Anchor/catcher; OD:6.36 in; Length:5.00 ft; Btm MD:4,947.5 ftKB					
4,947.5							
5,345.5	Des:Shear Coupling 21K; OD:7/8 in; Length:0.50 ft; Btm MD:5,349.9 ftKB						
5,349.4							
5,349.7	Des:Rod Pump (2-1/2" x 1-1/4" x 12' x 14' RHBC w/HVR SN: ERBA-061); OD:2 1/2 in; Length:14.00 ft; Btm MD:5,363.9 ftKB						
5,362.9		Des:Seat Nipple; OD:2 7/8 in; Length:1.08 ft; Btm MD:5,363.9 ftKB					
5,363.8							
5,367.8	Des:Dip Tube (1-1/4" x 15'); OD:1 1/4 in; Length:15.00 ft; Btm MD:5,378.9 ftKB						
5,378.9							
5,429.5		Des:Tubing - Production; OD:2 7/8 in; Length:5,416.20 ft; Btm MD:5,430.2 ftKB					
5,430.1							
5,565.0							
5,591.9							
6,067.9							
6,068.9							
6,110.9							
6,112.9							
6,125.0							
7,231.0							
7,241.1							
8,870.1							
8,875.0							
10,482.9							
10,490.2							
10,497.0							
10,509.8							
10,510.2		Des:Plug Back Total Depth; Depth MD:10,510.0 ftKB; Date:4/28/2014					
10,512.1							
10,592.8							
10,594.2							
10,690.0							



Enduring Resources IV - Production WBD

Well Name: NE CHACO COM 169H

API/UWI 30-039-31211	Surface Legal Location SWNW 12 (Unit E) T23N R07W	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 7,053.01	KB-Tubing Head Distance (ft)	Spud Date 3/6/2014 08:00	Rig Release Date 4/4/2014 19:00	PBTD (All) (ftKB) Original Hole - 10,510.0	Total Depth All (TVD) (ftKB) Original Hole - 5,508.8



Wellbore Sections								
Section Description Surface Hole	Size (in) 12 1/4	Act Top (ft... 14.0	Act Top (T... 14.0	Act Btm (ft... 425.0	Act Btm (T... 425.0			
Section Description Intermediate Hole	Size (in) 8 3/4	Act Top (ft... 425.0	Act Top (T... 425.0	Act Btm (ft... 6,125.0	Act Btm (T... 5,637.1			
Section Description Production Hole	Size (in) 6 1/8	Act Top (ft... 6,125.0	Act Top (T... 5,637.1	Act Btm (ft... 10,690.0	Act Btm (T... 5,508.8			
Rod Strings								
Rod Description Rod	Run Date 10/8/2020	String Length (ft) 5,375.50		Set Depth (ftKB) 5,378.9				
Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)			
Polished Rod	1	1 1/2	26.00	3.4	29.4			
Pony Rod	1	7/8	2.00	29.4	31.4			
Pony Rod	1	7/8	6.00	31.4	37.4			
Pony Rod	1	7/8	8.00	37.4	45.4			
Slick Rod	12	7/8	300.00	45.4	345.4			
Guided Rod	178	3/4	4,450.00	345.4	4,795.4			
Guided Rod	22	7/8	550.00	4,795.4	5,345.4			
Rod stabilizer (1" x 4' w/3 guides)	1	1	4.00	5,345.4	5,349.4			
Shear Coupling 21K	1	7/8	0.50	5,349.4	5,349.9			
Rod Pump (2-1/2" x 1-1/4" x 12' x 14' RHBC w/HVR SN: ERBA-061)	1	2 1/2	14.00	5,349.9	5,363.9			
Dip Tube (1-1/4" x 15')	1	1 1/4	15.00	5,363.9	5,378.9			
Tubing - Production set at 5,430.2ftKB on 10/7/2020 10:30								
Tubing Description Tubing - Production	Run Date 10/7/2020	String Length (ft) 5,416.20		Set Depth (ftKB) 5,430.2				
Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	1			7	2.44	0.80	14.0	14.8
Tubing	157	J-55	6.50	2 7/8	2.44	4,927.67	14.8	4,942.5
Anchor/catcher	1			6.36	2.44	5.00	4,942.5	4,947.5
Tubing	13	J-55	6.50	2 7/8	2.44	415.33	4,947.5	5,362.8
Seat Nipple	1			2 7/8	2.28	1.08	5,362.8	5,363.9
Perforated Sub	1	J-55	6.50	2 7/8	2.44	4.00	5,363.9	5,367.9
Tubing	2	L-80	6.50	2 7/8	2.44	61.72	5,367.9	5,429.6
Purge Valve	1			2 7/8	0.50	0.60	5,429.6	5,430.2
Surface Casing, 423.0ftKB								
OD (in) 9 5/8	Wt/Len (lb/ft) 36.00	String Grade J-55	Top Connection LT&C		Top (ftKB) 14.0	Set Depth (ftKB) 423.0		
Item Des				Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
Casing Joints				1	373.00	14.0	387.0	
Float Collar					1.00	387.0	388.0	
Casing Joints					34.00	388.0	422.0	
Float Shoe					1.00	422.0	423.0	
Intermediate Casing, 6,113.0ftKB								
OD (in) 7	Wt/Len (lb/ft) 23.00	String Grade J-55	Top Connection LT&C		Top (ftKB) 14.0	Set Depth (ftKB) 6,113.0		
Item Des				Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
Casing Joints				1	6,054.01	14.0	6,068.0	
Float Collar				1	1.00	6,068.0	6,069.0	
Casing Joints				1	42.00	6,069.0	6,111.0	
Float Shoe				1	2.00	6,111.0	6,113.0	
PRODUCTION LINER #1, 10,594.0ftKB								
OD (in) 4 1/2	Wt/Len (lb/ft) 11.60	String Grade N-80	Top Connection LT&C		Top (ftKB) 5,565.0	Set Depth (ftKB) 10,594.0		
Item Des				Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
Liner Hanger					27.00	5,565.0	5,592.0	
Casing Joints				42	1,639.00	5,592.0	7,231.0	
Casing Pup Joint				1	10.00	7,231.0	7,241.0	
Casing Joints				41	1,629.00	7,241.0	8,870.0	
Casing Pup Joint				1	5.00	8,870.0	8,875.0	



Enduring Resources IV - Production WBD

Well Name: NE CHACO COM 169H

API/UWI 30-039-31211	Surface Legal Location SWNW 12 (Unit E) T23N R07W	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 7,053.01	KB-Tubing Head Distance (ft)	Spud Date 3/6/2014 08:00	Rig Release Date 4/4/2014 19:00	PBTD (All) (ftKB) Original Hole - 10,510.0	Total Depth All (TVD) (ftKB) Original Hole - 5,508.8

Horizontal, Original Hole, 10/14/2020 1:01:42 PM																																																																																				
MD (ftKB)	Vertical schematic (actual)																																																																																			
3.3																																																																																				
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Des: Polished Rod; OD: 1 1/2 in; Length: 26.00 ft; Btm MD: 29.4 ftKB																																																																																				
Des: Pony Rod; OD: 7/8 in; Length: 2.00 ft; Btm MD: 31.4 ftKB																																																																																				
Des: Pony Rod; OD: 7/8 in; Length: 6.00 ft; Btm MD: 37.4 ftKB																																																																																				
Des: Pony Rod; OD: 7/8 in; Length: 8.00 ft; Btm MD: 45.4 ftKB																																																																																				
Des: Slick Rod; OD: 7/8 in; Length: 300.00 ft; Btm MD: 345.4 ftKB																																																																																				
Des: Tubing Hanger; OD: 7 in; Length: 0.80 ft; Btm MD: 14.8 ftKB																																																																																				
Des: Guided Rod; OD: 3/4 in; Length: 4,450.00 ft; Btm MD: 4,795.4 ftKB																																																																																				
Des: Guided Rod; OD: 7/8 in; Length: 550.00 ft; Btm MD: 5,345.4 ftKB																																																																																				
Des: Rod stabilizer (1" x 4' w/3 guides); OD: 1 in; Length: 4.00 ft; Btm MD: 5,349.4 ftKB																																																																																				
Des: Anchor/catcher; OD: 6.36 in; Length: 5.00 ft; Btm MD: 4,947.5 ftKB																																																																																				
Des: Shear Coupling 21K; OD: 7/8 in; Length: 0.50 ft; Btm MD: 5,349.9 ftKB																																																																																				
Des: Rod Pump (2-1/2" x 1-1/4" x 12' x 14' RHBC w/HVR SN: ERBA-061); OD: 2 1/2 in; Length: 14.00 ft; Btm MD: 5,363.9 ftKB																																																																																				
Des: Seat Nipple; OD: 2 7/8 in; Length: 1.08 ft; Btm MD: 5,363.9 ftKB																																																																																				
Des: Dip Tube (1-1/4" x 15'); OD: 1 1/4 in; Length: 15.00 ft; Btm MD: 5,378.9 ftKB																																																																																				
Des: Tubing - Production; OD: 2 7/8 in; Length: 5,416.20 ft; Btm MD: 5,430.2 ftKB																																																																																				
Des: Plug Back Total Depth; Depth MD: 10,510.0 ftKB; Date: 4/28/2014																																																																																				
<table><tr><th>Item Des</th><th>Jts</th><th>Len (ft)</th><th>Top (ftKB)</th><th>Btm (ftKB)</th></tr><tr><td>Casing Joints</td><td>40</td><td>1,608.00</td><td>8,875.0</td><td>10,483.0</td></tr><tr><td>RSI Frac Sleeve</td><td></td><td>7.00</td><td>10,483.0</td><td>10,490.0</td></tr><tr><td>RSI Frac Sleeve</td><td></td><td>7.00</td><td>10,490.0</td><td>10,497.0</td></tr><tr><td>Casing Pup Joint</td><td>1</td><td>13.00</td><td>10,497.0</td><td>10,510.0</td></tr><tr><td>Float Collar / Landing Collar</td><td></td><td>2.00</td><td>10,510.0</td><td>10,512.0</td></tr><tr><td>Casing Joints</td><td>2</td><td>81.00</td><td>10,512.0</td><td>10,593.0</td></tr><tr><td>Float Shoe</td><td></td><td>1.00</td><td>10,593.0</td><td>10,594.0</td></tr><tr><td colspan="6">Cement</td></tr><tr><td colspan="2">Description Surface Casing Cement</td><td colspan="2">Cementing Start Date 3/6/2014</td><td>Cementing End Date 3/6/2014</td></tr><tr><td colspan="6">Comment Pump 10 bbls FW spacer, & 50.1 bbls Type G cmt (245 sxs) @ 15.8 PPG. Drop plug & disp w/ 29.7 bbls H2O. Bump plug @ 214 psi. Circ 20 bbls good cmt to surface.</td></tr><tr><td colspan="2">Description Intermediate Casing Cement</td><td colspan="2">Cementing Start Date 3/28/2014</td><td>Cementing End Date 3/28/2014</td></tr><tr><td colspan="6">Comment Pump 10 bbl fw spacer ahead, 40 bbl chem wash spacer, 20 bbl scavenger 0.2% veraset, 0.15% halad-766, [wt= 11.5 ppg yld=2.15] Foamed lead cmt 690 sks, 1007 cu ft, 179 bbl, Elastiseal cmt 0.2% veraset, 0.15% halad-766, 1.5% chem foamer, [wt= 13 ppg, yld=1.46] Tail cmt 100 sks, 130 cu ft, 23 bbl Halsem cmt 0.2% veraset, 0.15% halad-766, [wt=13.5 ppg yld=1.3] Drop top plug, displace 7" csg w/ 241 bbl drlg mud @ 8.5 ppg, Late pressure 850# bump plug press up to 1952# [floats held ok] [Circ out 20 bbls scavenger cmt & 15 bbls foamed cmt to pit] Cap cmt, 100 sks, 100 cu ft, 20 bbl Halsem cmt 2% CACL [wt=15.8 ppg yld=1.1] [P.D. @ 3:25 HRS 3/28/14]</td></tr><tr><td colspan="2">Description Production Casing Cement</td><td colspan="2">Cementing Start Date 4/3/2014</td><td>Cementing End Date 4/4/2014</td></tr><tr><td colspan="6">Comment 10 Bbl FW, 40 Bbl Tuned Spacer, 10 Bbl FW, Cap = 40sx elastiseal (10.2 Bbl, 57cf) + 0.2% Versaset + 0.15% Halad-766 + 0.2% Halad-344 + 6.92wgps (13ppg, 1.43yld) Foamed Lead= 255sx elastiseal (66Bbl, 365cf) + 0.2% Versaset + 0.15% Halad-766 + 0.2% Halad-344 + 2.5% ChemFoamer + 6.92wgps (13ppg, 1.43yld) Tail = 100sx Elastiseal (23.2Bbl, 130cf) + 0.2% Versaset + 0.2% + 0.2% Halad-766 + 0.05% SA-110 + 5.81wgps (13.5ppg, 1.3 Yld) Led S/M running csg, only 1 jt in v-door @ a time, snub in @ v-door. Cmt Liner, wash lines & drop dart plug, Disp W/ 127.5 Bbl 2% KCL, final press 979# bump plug to 1560#, check float, held. Plug dn @ 06:55, 4/3/14. Drop ball & press to 3400#, set Hanger, PU100K, slack off 100K, Set. Release F/ Hanger & sting out pumping 170 Bbl 2% KCL, 32 Bbl Foam Cmt to pi</td></tr></table>						Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Casing Joints	40	1,608.00	8,875.0	10,483.0	RSI Frac Sleeve		7.00	10,483.0	10,490.0	RSI Frac Sleeve		7.00	10,490.0	10,497.0	Casing Pup Joint	1	13.00	10,497.0	10,510.0	Float Collar / Landing Collar		2.00	10,510.0	10,512.0	Casing Joints	2	81.00	10,512.0	10,593.0	Float Shoe		1.00	10,593.0	10,594.0	Cement						Description Surface Casing Cement		Cementing Start Date 3/6/2014		Cementing End Date 3/6/2014	Comment Pump 10 bbls FW spacer, & 50.1 bbls Type G cmt (245 sxs) @ 15.8 PPG. Drop plug & disp w/ 29.7 bbls H2O. Bump plug @ 214 psi. Circ 20 bbls good cmt to surface.						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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

CONDITIONS

Action 18475

CONDITIONS OF APPROVAL

Operator:	ENDURING RESOURCES, LLC	1050 17TH STREET, SUITE 2500	DENVER, CO80265	OGRID:	372286	Action Number:	18475	Action Type:	C-103R
OCD Reviewer	Condition								
mkuehling	None								