

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

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-045-35500
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. VO9208
7. Lease Name or Unit Agreement Name CHACO 2308 16I
8. Well Number 148H
9. OGRID Number 372286
10. Pool name or Wildcat NAGEEZI GL/ BASIN MC

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 IV LLC

3. Address of Operator
 200 Energy Court Farmington NM 87401

4. Well Location

Unit Letter I : 1531' feet from the S line and 281' feet from the E line

Section 16 Township 23N Range 8W NMPM County SAN JUAN

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 6858'

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: ☐

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.

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

EOT: 5,287' MD
 SN: 5,215' MD
 TAC: 5,149' MD
 Job Start: 10/08/2020
 Job End: 10/19/2020

NMOCD REC'D
 11-19-20

Spud Date:

2/3/14

Rig Release Date:

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

SIGNATURE Heather Huntington TITLE Permit Technician DATE 11/19/2020

Type or print name Heather Huntington E-mail address: hhuntington@enduringresources.com PHONE: 505-636-9751

For State Use Only

APPROVED BY: Monica Kuehling TITLE Deputy Oil and Gas Inspector DATE 2/26/2021

Conditions of Approval (if any):

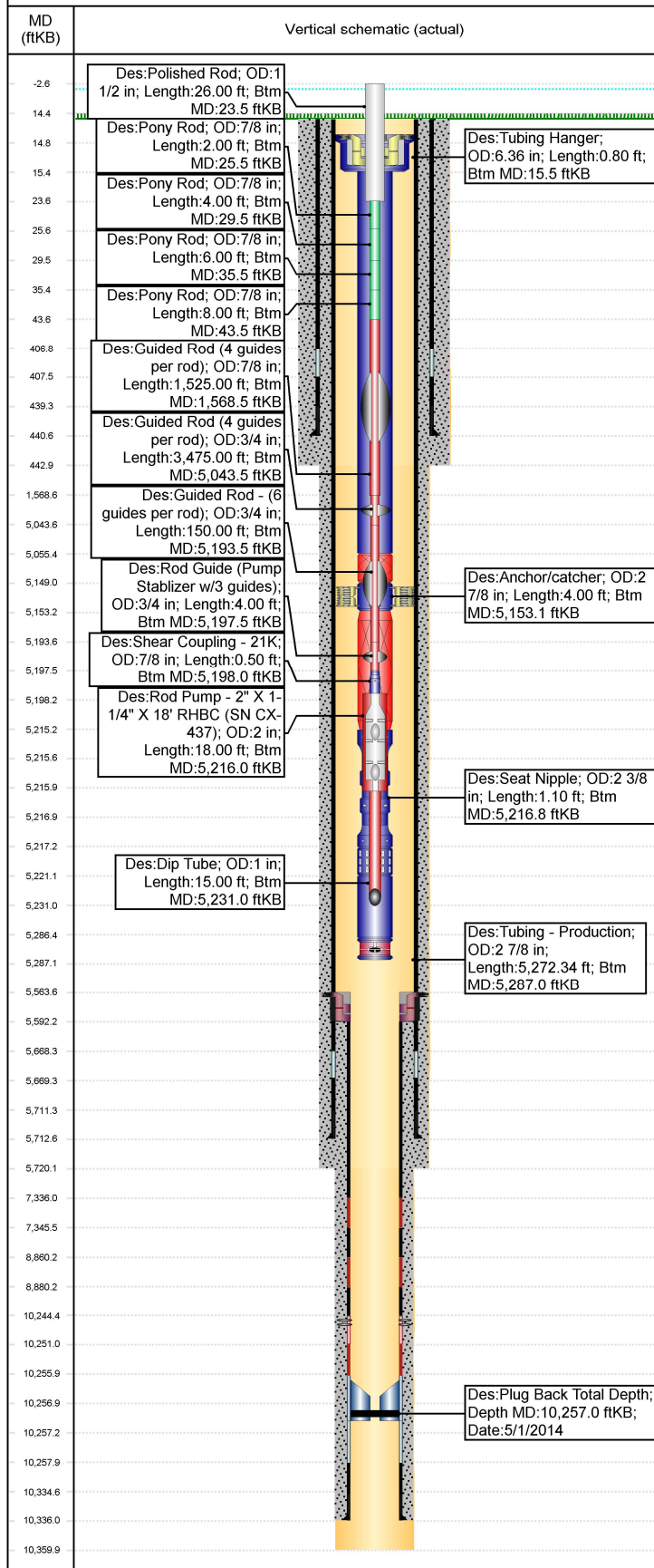


Enduring Resources IV - Production WBD

Well Name: CHACO 2308-16I 148H

API/UWI 30-045-35500	Surface Legal Location (Unit I) NE/4, SE/4, Section 16, Twp 23N,...	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 6,880.51	KB-Tubing Head Distance (ft)	Spud Date 2/4/2014 09:00	Rig Release Date 5/1/2014 20:00	PBTD (All) (ftKB) Original Hole - 10,257.0	Total Depth All (TVD) (ftKB) Original Hole - 4,940.2

Horizontal, Original Hole, 11/18/2020 3:22:37 PM



Wellbore Sections

Section Description SURFACE	Size (in) 12 1/4	Act Top (ft...) 14.5	Act Top (T...) 14.5	Act Btm (ft...) 443.0	Act Btm (T...) 443.0
Section Description INTERMEDIATE	Size (in) 8 3/4	Act Top (ft...) 443.0	Act Top (T...) 443.0	Act Btm (ft...) 5,720.0	Act Btm (T...) 5,100.5
Section Description PRODUCTION	Size (in) 6 1/8	Act Top (ft...) 5,720.0	Act Top (T...) 5,100.5	Act Btm (ft...) 10,360.0	Act Btm (T...) 4,940.2

Rod Strings

Rod Description Rod	Run Date 10/19/2020	Rod String Length (ft) 5,233.50		Set Depth (ft)(KB) 5,231.0	
Item Des	Jts	OD (in)	Len (ft)	Top (ft)(KB)	Btm (ft)(KB)
Polished Rod	1	1 1/2	26.00	-2.5	23.5
Pony Rod	1	7/8	2.00	23.5	25.5
Pony Rod	1	7/8	4.00	25.5	29.5
Pony Rod	1	7/8	6.00	29.5	35.5
Pony Rod	1	7/8	8.00	35.5	43.5
Guided Rod (4 guides per rod)	61	7/8	1,525.00	43.5	1,568.5
Guided Rod (4 guides per rod)	139	3/4	3,475.00	1,568.5	5,043.5
Guided Rod - (6 guides per rod)	6	3/4	150.00	5,043.5	5,193.5
Rod Guide (Pump Stabilizer w/3 guides)	1	3/4	4.00	5,193.5	5,197.5
Shear Coupling - 21K	1	7/8	0.50	5,197.5	5,198.0
Rod Pump - 2" X 1-1/4" X 18' RHBC (SN CX-437)	1	2	18.00	5,198.0	5,216.0
Dip Tube	1	1	15.00	5,216.0	5,231.0

Tubing - Production set at 5,287.0ftKB on 10/16/2020 13:00

Tubing Description		Run Date			String Length (ft)		Set Depth (ftKB)	
Tubing - Production		10/16/2020			5,272.34		5,287.0	
Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	1			6.36	2.44	0.80	14.7	15.5
Tubing	159	J-55	6.50	2 7/8	2.44	5,040.04	15.5	5,055.5
Tubing (Poly Lined)	3	N-80	6.50	2 7/8	2.00	93.56	5,055.5	5,149.1
Anchor/catcher	1			2 7/8	2.44	4.00	5,149.1	5,153.1
Tubing (Poly Lined)	2	N-80	6.50	2 7/8	2.00	62.12	5,153.1	5,215.2
Cross Over	1			2 7/8	2.00	0.50	5,215.2	5,215.7
Seat Nipple	1			2 3/8	1.78	1.10	5,215.7	5,216.8
Cross Over	1			2 7/8	2.00	0.50	5,216.8	5,217.3
Perforated Sub	1	L-80	6.50	2 7/8	2.44	4.00	5,217.3	5,221.3
Tubing	2	J-55	6.50	2 7/8	2.44	65.22	5,221.3	5,286.5
Purge Valve				2 7/8	0.25	0.50	5,286.5	5,287.0

SURFACE CASING, 440.6ftKB

OD (in) 9 5/8	Wt/Len (lb/ft) 36.00	String Grade J-55	Top Connection	Top (ftKB) 14.5	Set Depth (ftKB) 440.6	
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints			12	392.17	14.5	406.7
Float Collar			1	0.90	406.7	407.6
Casing Joints			1	31.64	407.6	439.2
Guide Shoe			1	1.42	439.2	440.6

LINER TIEBACK, 5,563.6ftKB

OD (in) 4 1/2	Wt/Len (lb/ft) 11.60	String Grade N-80	Top Connection 8RD	Top (ftKB) 14.5	Set Depth (ftKB) 5,563.6
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing		117	4,391.96	14.5	4,406.5
Marker Joint		1	14.73	4,406.5	4,421.2
Casing		30	1,141.18	4,421.2	5,562.4
Liner Tieback Sleeve		1	1.20	5,562.4	5,563.6

INTERMEDIATE CASING, 5,712.6ftKB

OD (in) 7	Wt/Len (lb/ft) 23.00	String Grade J-55	Top Connection 8RD	Top (ftKB) 14.5	Set Depth (ftKB) 5,712.6
--------------	-------------------------	----------------------	-----------------------	--------------------	-----------------------------

WellView®**Enduring Resources IV - Production WBD****Well Name: CHACO 2308-16I 148H**

API/UWI 30-045-35500	Surface Legal Location (Unit I) NE/4, SE/4, Section 16, Twp 23N,...	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 6,880.51	KB-Tubing Head Distance (ft)	Spud Date 2/4/2014 09:00	Rig Release Date 5/1/2014 20:00	PBTD (All) (ftKB) Original Hole - 10,257.0	Total Depth All (TVD) (ftKB) Original Hole - 4,940.2

Horizontal, Original Hole, 11/18/2020 3:22:41 PM					
MD (ftKB)	Vertical schematic (actual)				
-2.6	Des: Polished Rod; OD: 1 1/2 in; Length: 26.00 ft; Btm MD: 23.5 ftKB				
14.4	Des: Pony Rod; OD: 7/8 in; Length: 2.00 ft; Btm MD: 25.5 ftKB				
14.8	Des: Pony Rod; OD: 7/8 in; Length: 4.00 ft; Btm MD: 29.5 ftKB				
15.4	Des: Pony Rod; OD: 7/8 in; Length: 6.00 ft; Btm MD: 35.5 ftKB				
23.6	Des: Pony Rod; OD: 7/8 in; Length: 8.00 ft; Btm MD: 43.5 ftKB				
25.6	Des: Guided Rod (4 guides per rod); OD: 7/8 in; Length: 1,525.00 ft; Btm MD: 1,568.5 ftKB				
29.5	Des: Guided Rod (4 guides per rod); OD: 3/4 in; Length: 3,475.00 ft; Btm MD: 5,043.5 ftKB				
35.4	Des: Guided Rod - (6 guides per rod); OD: 3/4 in; Length: 150.00 ft; Btm MD: 5,193.5 ftKB				
43.6	Des: Rod Guide (Pump Stabilizer w/3 guides); OD: 3/4 in; Length: 4.00 ft; Btm MD: 5,197.5 ftKB				
406.6	Des: Shear Coupling - 21K; OD: 7/8 in; Length: 0.50 ft; Btm MD: 5,198.0 ftKB				
407.5	Des: Rod Pump - 2" X 1-1/4" X 18" RHBC (SN CX-437); OD: 2 in; Length: 18.00 ft; Btm MD: 5,216.0 ftKB				
439.3	Des: Anchor/catcher; OD: 2 7/8 in; Length: 4.00 ft; Btm MD: 5,153.1 ftKB				
440.6	Des: Seat Nipple; OD: 2 3/8 in; Length: 1.10 ft; Btm MD: 5,216.8 ftKB				
442.9	Des: Dip Tube; OD: 1 in; Length: 15.00 ft; Btm MD: 5,231.0 ftKB				
1,568.6	Des: Tubing - Production; OD: 2 7/8 in; Length: 5,272.34 ft; Btm MD: 5,287.0 ftKB				
5,043.6	Des: Plug Back Total Depth; Depth MD: 10,257.0 ftKB; Date: 5/1/2014				
5,055.4					
5,149.0					
5,153.2					
5,193.6					
5,197.5					
5,198.2					
5,215.2					
5,215.6					
5,215.9					
5,216.9					
5,217.2					
5,221.1					
5,231.0					
5,286.4					
5,287.1					
5,563.6					
5,592.2					
5,668.3					
5,669.3					
5,711.3					
5,712.6					
5,720.1					
7,336.0					
7,345.5					
8,860.2					
8,880.2					
10,244.4					
10,251.0					
10,255.9					
10,256.9					
10,257.2					
10,257.9					
10,334.6					
10,336.0					
10,359.9					

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	135	5,653.75	14.5	5,668.3
Float Collar	1	0.95	5,668.3	5,669.2
Casing Joints	1	42.18	5,669.2	5,711.4
Guide Shoe	1	1.20	5,711.4	5,712.6

PRODUCTION LINER, 10,336.0ftKB					
OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
4 1/2	11.60	N-80	8RD	5,563.6	10,336.0

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Liner Hanger	1	28.54	5,563.6	5,592.1
Casing	46	1,743.76	5,592.1	7,335.9
Marker Joint	1	9.75	7,335.9	7,345.6
Casing	40	1,514.66	7,345.6	8,860.3
Marker Joint	1	20.03	8,860.3	8,880.3
Casing	36	1,363.95	8,880.3	10,244.3
Rapid Frac Sleeve	2	6.70	10,244.3	10,251.0
Marker Joint	1	5.01	10,251.0	10,256.0
Landing Collar	1	1.10	10,256.0	10,257.1
Float Collar	1	0.88	10,257.1	10,258.0
Casing	2	76.83	10,258.0	10,334.8
Float Shoe	1	1.25	10,334.8	10,336.0

Cement		
Description SURFACE CEMENT	Cementing Start Date 2/6/2014	Cementing End Date 2/6/2014

Comment 250 sx (222 cuft)		
------------------------------	--	--

Description INTERMEDIATE CEMENT	Cementing Start Date 4/25/2014	Cementing End Date 4/25/2014
------------------------------------	-----------------------------------	---------------------------------

Comment TEST LINES @ 5000# H2O & 7000# N2 [GOOD TEST] 10 bbl mud flush, 40 bbl chem wash ahead, 52 sks, 20 bbl scavenger @ [yld=2.15 wt=11.5]. Lead foamed cmt, 670 sks, 978 cu ft, 174 bbls, Elastiseal cmt w/ 2% versaset, .15% halad-766, 1.5% chem foamer .2% halad 433 @ [yld=1.46 wt=13.0] Tail cmt, 100 sks, 130 cu ft, 23 bbl, Halsem cmt w/ .2% versaset, .15% halad-766 @ [yld=1.3 wt=13.5] Drop plug & displace 7" csg w/ 224 bbls drilling mud @ 10.5 ppg, late pressure 960#, bumped plug to 1284# @ 06:10 AM 04/25/2014. floats held OK. Circ 15 bbls foamed cmt to pit. Pump cap cmt down annulus 100 sks, 117 cu ft, 20 bbls, Halsem cmt w/ 2% CACL. Shut in backside. [NMOCD PAUL WIBBIE WITNESSED JOB]		
---	--	--

Description LINER CEMENT	Cementing Start Date 4/30/2014	Cementing End Date 4/30/2014
-----------------------------	-----------------------------------	---------------------------------

Comment pump 10bbls of fresh water, 40bbls of Tuned Spacer III, 9.5ppg, yield 14.49, mix ratio 98.9, 10bbls of fresh water. Cap Cement 40sx (10bbl Slurry) of Elastiseal Cement with .2% versaset, .15% Halad-766 .2% Halad-344, 6.92gal water, 13.0ppg, Yield 1.46, Mix 6.92. Foam Lead 240sks of Elastiseal Cement with .2% versaset, .15% Halad-766 .25% Chem-Foamer 760, .2% Halad @-344, 6.924gal fresh water, 13.0ppg, Yield 1.46, Mix 6.92. Tail Cement 100sx (23bbl Slurry) of Elastiseal Cement with 2% versaset, .15% Halad-766, .05% SA-1015, 5.81gal fresh water, 13.5ppg, yield 1.3, Mix ratio 5.81. Displace with 20bbls of MMCR spacer, 8.34ppg plus 50bbls of 2%KCL water plus 20bbls of fresh water plus 37bbls of 2% KCL Water. Total displacement 127bbls. Final Circulating Pressure 1000 psi@ 2bbls/min, Bumped Plug to 1800psi, Plug Down @ 2140hrs 4/30/2014		
---	--	--

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 18935

CONDITIONS OF APPROVAL

Operator:	ENDURING RESOURCES, LLC	1050 17TH STREET, SUITE 2500	DENVER, CO80265	OGRID:	372286	Action Number:	18935	Action Type:	C-103R
OCD Reviewer	Condition								
mkuehling	None								