Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

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FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

ONID 140. 1004-015
Expires: January 31, 20

BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to repenter and Management

abandoned well. Use Form 3160-3 (APD) for such proposals.

6. If Indian, Allottee or Tribe Name

And Management

. Hilly

5. Lease Serial No. NMSF 077972

abandoned well. l	Use Form 3160-3 (A	PD) for Su	fi proposal	Managen •	hent	
	TRIPLICATE - Other instr					ement, Name and/or No.
1. Type of Well Oil Well Gas W					8. Well Name and No.	Richardson #101S
2. Name of Operator Logos Operating	g, LLC				9. API Well No. 30-04	5-31674
3a. Address 2010 Afton Place, Farm		3b. Phone No. (505) 324-41	(include area coa	le)	10. Field and Pool or I Basin Fruitland Co	Exploratory Area
4. Location of Well (Footage, Sec., T.,F 660' FNL, 2630' FWL, C Sec 11 T)			11. Country or Parish, San Juan County,	
12. CHE	CK THE APPROPRIATE B	OX(ES) TO IN	DICATE NATUR	E OF NOTI	CE, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION			TY	PE OF AC	ΓΙΟΝ	
✓ Notice of Intent ☐ Subsequent Report ☐	Acidize Alter Casing Casing Repair Change Plans	New	en aulic Fracturing Construction and Abandon	Reco	amation mplete porarily Abandon	Water Shut-Off Well Integrity Other
Final Abandonment Notice	Convert to Injection	Plug	Back	Wate	r Disposal	
	ons. If the operation results in tices must be filed only after Abandon the subject well p	n a multiple con all requirement ber the attache by BLM and Brain CD 6 2019	apletion or recomps, including reclar	BLATS ACTIO	new interval, a Form 3 be been completed and the matic, with the intent Motify NMOC prior to be operation. APPROVAL OR ACCION FOR SOME TO BE MOTIFIED TO BE	160-4 must be filed once testing has been the operator has detennined that the site to return the well to production CD 24 hrs sinning ons CEPTANCE OF THIS EVE THE LESSEE AND INNING ANY OTHER
14. I hereby certify that the foregoing is	true and correct Name (Pr	inted/Typed)				
Tamra Sessions	due and correct. Name (77)	ініеш Турей)	Regulator Title	ry Specialis	st	
Signature AM	osiers		Date		02/21/20	019
	THE SPACE	FOR FED	ERAL OR ST	ATE OF	ICE USE	
Approved by			Title Pi		I	Date 3/2/2019
Conditions of approval, if any, are attacl certify that the applicant holds legal or ewhich would entitle the applicant to con	equitable title to those rights		tor	FO		VINIANI
Title 18 U.S.C Section 1001 and Title 4. any false, fictitious or fraudulent statement				gly and will:	fully to make to any de	partment or agency of the United States

(Instructions on page 2)





Temporary Abandonment Procedure

RICHARDSON 101S 30-045-31674

660' FNL & 2630' FWL C-11-27N-13W San Juan County, New Mexico Lat 36.5951996° Long -108.1885986° Fruitland Coal

CR:		Production Engineer
	Date	-
КМ:	Date	Engineering Manager
DB:	Dato	Production/Workover Manager

PROJECT OBJECTIVE:

TOOH laying down rods and pump. TOOH visually inspecting tubing. TIH with tubing set CIBP to set 50' above top perforation. TOOH. Load hole with packer fluid. Rig up chart recorder and conduct MIT. RDMOL.

EQUIPMENT REQUESTED ON LOCATION

- 1. Rig pit with 1% KCl with biocide (2.5 gal biocide/80 bbl produced water)
- 2. Rig pump
- 3. 4-1/2" 11.6# CIBP (Weatherford)
- 4. 4-1/2" 11.6# string mill and used bit (Weatherford or Select)
- 5. Chart recorder for MIT (2 hour chart, 1000 psig spring) (Big Red Tool)
- 6. ~25 bbl packer fluid (H&M)

PERTINENT DATA:

KB	5'
PBTD	1579'
EOT	1408'
LAST WORKOVER	9/9/2015
LAST TAG	1464' (4/15/2014)
PRODUCTION CASING SPECS	4-1/2", 11.6#, J-55
TUBING SPECS	2-3/8" 4.7# J-55 EUE

NOTES:

- Follow procedure to conduct MIT
- Set CIBP at recommended landing depth, DO NOT set CIBP > 50' from perforations
- · Well has a tubing pump installed

CONTACTS:

Catlain Richardson – Consultant	Bruce Hare - Tuboscope
Cell (505) 320-3499	Cell (505) 330-0913
Krista McWilliams - Artificial Lift Consultant	Gary Noyes – Energy Pump
Cell (505) 419-1627	Cell (505) 330-1932
Duane Bixler – Workover Rig Supervisor	Jason Meechan – Area Lead
Cell (505) 635-1663	Cell (505) 486-2612

WORKOVER PROCEDURE:

- 1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM and NMOCD rules and regulations.
- 2. Lay flow lines. Check and record casing and tubing pressures. RU blow lines from casing valves to rig pit. Kill well as necessary. Blow casing pressure down if necessary.
- 3. Stack out rods out, J to the right to release on/off tool and TOOH with rods and pump. Send rods to yard for condition determination and storage. Current rod string:

NO.	DESCRIPTION
1	1-1/2" x 22' polished rod w/ liner
2	3/4" pony rods (4', 8')
50	3/4" plain rods
4	1-1/4" sinker bars
1	On/off tool

4. ND WH. NU BOP.

Release tubing hanger and TOOH with tubing, visually inspecting. Lay down joints if required, but ~41 joints will be required to run CIBP to 1295'. Current tubing string:

NO.	DESCRIPTION
44	2-3/8" 4.7# J-55 EUE tubing joints
1	2-3/8" x 2" x 14' x 17' TWE Pump
1	8' sand screen w/ 25 slots

- 6. TIH with string mill and used bit for 4-1/2" 11.6# casing on tubing string. Make mill run to within 20' of top perforation at 1345'. Run mill to 1325'. TOOH and lay down mill and bit.
- 7. PU CIBP for 4-1/2" 11.6# casing and RIH and set CIBP at 1295' KB.
- 8. Reverse circulate packer fluid and load hole with ~22 bbl packer fluid (volume with tubing in the well). Conduct preliminary pressure test to ensure CIBP is holding. Do not pressure up beyond 560 psig surface pressure.
- 9. Contact NMOCD to witness pressure test with 24 hr notice.
- 10. Rig up Big Red Tool to chart pressure test as follows:
 - Top off packer fluid
 - Pressure up to 560 psig surface pressure
 - Record pressure on 2 hour chart with 1000 psig spring for 30 minutes
 - Contact engineer with results of pressure tests
- 11. Bleed of pressure and release Big Red Tool.
- 12. TOOH with tubing and send to yard for inspection and storage.
- 13. ND BOP, NU WH.
- 14. Top off wellbore with packer fluid.
- 15. RDMOL.



Wellbore Schematic

Well Name:	Richardson 101S			
Location:	UL C, Sec 11, T27N, R13W 660' FNL & 2630' FWL			
County:	San Juan			
API#:	30-045-31674			
Co-ordinates:	Lat 36.5951996° Long -108.1885986°			
Elevations:	GROUND:	5927'		
	KB:	5932'		
Depths (KB):	PBTD:	1579'		
	TD:	1606'		

 Date Prepared:
 3/20/2017

 Last Updated:
 2/19/2019 Hespe

 Spud Date:
 10/17/2005

 Completion Date:
 11/4/2005

 Last Workover Date:
 9/10/2015

TOC at surface (circ) Tubing: (9/9/2015) KB 6-1/4" 142'-1606' (44) 2-3/8", 4.7#, J-55 tubing joints 1374.8 (1) 2-3/8" x 2" x 14" x 17" TWE Pump 19.9 (1) 8' sand screen w/ 25 slots 8.3 Set at: 1408 ft Rods: (9/9/2015) (1) 1-1/2" x 22" polished rod w/ liner 22 (2) 3/4" pony rods (4", 8") (3) 3/4" pony rods (4", 8") (4) 1-1/4" sinker bars 100 pump intake at 1395' est ji length 31.26' Perforations: (11/04/2005) Fruitland Coal. 43", 4SPF, 68 holes at 1345'-1354' & 1370'-1378'. Acidized w/ 1500 gal 15% HCL. Frace w/ 29/759 gal 70Q slickwater foam, & 10000# 40/70 sand & 83900# 20/40 sand. Formations: Ojo Alamo Kirtland- 228' Fruitland Coal- 1191' Pictured Cliffs- 1395' Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods set at normal tag, Rods had very minor scale, no sign of wear.	Depths (KB):	PBTD: 1579'	
Burface Casing Rod		TD: <u>1606'</u>	
Burface Casing Rod		All denths KB Hole	Size Surface Casing: (10/17/2005)
months of the surface	Surface Casing		Canada Calang, (10,111200)
Production Casing 1.12**. 11.6#, J-55 and 1.12**. 11			
Diritled a 6-14" production hole to 1606". Set 39 its 4-1/2", 11.6#, J-55 casing at 1603" cmt'd w/ 125 sixs 65/35 Class B poz., tailed w/ 85 sxc Class B; circulated 10 bbls cmt to surface (circ) TUbling. (9/9/2015) (4) 2-3/6" x 7.7#, J-55 tubing joints 1374.8 (4) 2-3/6" x 7.7#, J-55 tubing joints 1374.8 (4) 2-3/6" x 7.7#, J-55 tubing joints 19.9 (1) 8' sand screen w/ 25 slots 8.3 Set at: 1408 ft Rods: (9/9/2015) (1) 1-1/2" x 22? polished rod w/ liner 22 (2) 3/4" pony rods (4', 8') 12 (2) 3/4" pony rods (4', 8') 12 (3) 3/4" regular rods (bm 1/3 w/ snapon guides) 1300 (4) 1-1/4" sinker bars 1000 nov/off tool Pumping Unit: Perforations: (1) 11/4" sinker bars 1000 nov/off tool Pumping Unit: Perforations: (3) Alamo 124' (3) Alamo 124' (4) For: 1370'-1378' Acidized w/ 1500 gai 15% HCL. Frew 2/9759 gai 700 slickwater foam, & 10000# 40/70 sand & 83900# 20/40 sand. Formations: (3) Alamo 124' (4) Formations 19.9 (5) Additional Notes: 3/19/12 - Pull rods, tub, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at normal tag. Rods had very minor scale, no sign of wear. (6/28/12 - Pulled rods, tub, & pump. Found hole in jt 40 & two jts below. Replaced 3 jts, Ran csg scrapper. No tag. 4/15/14 - Pressure test, failed - Pulled rods, tub, & pump. Found hole in jt 40 & two jts below. Replaced 3 jts, Ran csg scrapper. No tag. 4/15/14 - Pressure test, failed - Pulled rods, tub, & pump. Found hole in jt 40 & two jts below. Replaced 3 jts, Ran csg scrapper. No tag. 4/15/14 - Pulled rods, tub, gump. Pump. Found hole in jt 40 & two jts below. Replaced 3 jts, Ran csg scrapper. No tag. 4/15/14 - Pulled rods, tub. gump. Pump. Found hole in jt 40 & two jts below. Replaced 3 jts, Ran csg scrapper. No tag. 4/15/14 - Pulled rods, tub. gump. Pump. Found hole in jt 40 & two jts below. Replaced 3 jts, Ran csg scrapper. No tag. 4/15/14 - Pulled rods, tub. gump. Pump. Pump hole in jt 40 & two jts below. Replaced 3 jts, Ran csg scrapper. No tag. 4/15/14 - Pulled rods, tub. gump. Pump.			
TOC at surface ToC at surface (circ) Total surface (circ) Tubing: (9/9/2015) Length (ft) S S (4/4) 2-3/8", 4.7#, J-55 tubing joints 1374.8 (1/2-3/8" × 2" × 14" × 17" TWE Pump 19.9 (1/2-3/8" × 12" × 14" × 17" TWE Pump 19.9 (1/2-3/8" × 12" × 14" × 17" TWE Pump 19.9 (1/2-3/8" × 12" × 14" × 17" TWE Pump 19.9 (1/2-3/8" × 12" × 14" × 17" TWE Pump 19.9 (1/2-3/8" × 12" × 14" × 12" × 12" × 12" × 12" × 13" × 1		TOC at surface	
Tubing: (9/9/2015) Ref. 1/4" 14/2-1606' Ref. 1/4" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/4" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/4" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft Ref. 1/2" 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/2" 1/10 * sand screen w/ 25 slots Set at: 14/08 ft 1/2" 1/2" 1/10 * sand s		1 111 1	
Set at: 1408 ft 142-1606' 142-1606	TOC at surface	1 111 1	cmt d w/ 125 sxs 65/35 Class B poz, tailed w/ 85 sxs Class B; circulated 10 bbis cmt to suria
Set at: 1408 ft 1374.8 142-1606'		TOC at surface	e (circ) Tubing: (9/9/2015) Length (ft)
142-1606 142-1606			
100 100		6-1	1/4" (44) 2-3/8", 4.7#, J-55 tubing joints 1374.8
Set at: 1408 ft		142'-	1606' (1) 2-3/8" x 2" x 14' x 17' TWE Pump 19.9
Rods: (9/9/2015)		1 111 1	(1) 8' sand screen w/ 25 slots 8.3
Rods: (9/9/2015)		1 111 1	Cot at: 4400 ft
Tagged Fill at 1464*		1 111 1	
12 14 15 12 15 15 15 15 15 15	Tubing	1 111 1	
A jts COT at 1408' Pump intake at 1395' st jt length 31.26' Perforations: (11/04/2005) Fruitland Coal. 43", 4SPF, 68 holes at 1345'-1354' & 1370'-1378'. Acidized w! 1500 gal 15% HCL. Frac w! 29759 gal 70Q slickwater foam, & 10000# 40/70 sand & 83900# 20/40 sand. Formations: Ojo Alamo 124' Kirtland 228' Fruitland Coal. 1191' Pictured Cliffs 1395' Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at normal tag. Rods had very minor scale, no sign of wear. 6/28/12- Pulled rods, tbg, & pump. Tag fill at 1464' New on/off tool. 10/12/13. Tisst tbg, failed. Pulled rods, tbg, & pump. Split in tbg 39. Ran scrapper through perfs. Fish out SV. Tag fill at 1451'. Ran 3 new jnts, snap on guides, & pump. 11/03/14 - Pressure test, failed. Pulled rods, tbg, & pump. Ran new pump. Split in tbg 39. Ran scrapper through perfs. Fish out SV. Tag fill at 1451'. Ran 3 new jnts, snap on guides, & pump. 11/10/314 - Pulled rods, tbg, & pump. Ran new pump. Rotated 6 inits to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg, & pump. Ran new pump. Rotated 6 inits to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg, & pump. Ran new pump. Rotated 6 inits to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg, & pump. Ran new		1 111 1	
Additional Notes: 100	44 its	1 111 1	
Production Casing 1-1/2", 11.6#, J-55 Set at 1603' TOC at surface O FC: 1345-1354' Tagged Fill at 1464' 4/15/2014 Perforations: (11/04/2005) Fruitland Coal .43", 4SPF, 68 holes at 1345'-1354' & 1370'-1378'. Acidized w/ 1500 gal 15% HCL. Frac w/ 29759 gal 70Q slickwater foam, & 10000# 40/70 sand & 83900# 20/40 sand. Formations: Ojo Alamo- 124' Kirtland- 228' Fruitland Coal- 1191' Pictured Cliffs- Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at normal tag. Rods had very minor scale, no sign of wear. 6/28/12- Pulled rods, tbg, & pump. Found hole in it 40 & two jts below. Replaced 3 jts. Ran csg scrapper. No tag. 4/15/14- Pressure test, failed. Pulled rods, tbg, & pump. Found hole in it 40 & two jts below. Replaced 3 jts. Ran csg scrapper. No tag. 4/15/14- Pressure test, failed. Pulled rods, tbg, & pump. Split in tbg 39. Ran scrapper through perfs. Fish out SV. Tag fill at 1451'. Ran 3 new jnts, snap on guides, & pump. 11/03/14 - Pulled rods. K-Bars worn & btm two rods guides worn. Replaced 4 K bars & 2 guides. Pulled rods, tbg, & pump. Pump had some corrosion. Shop inspection found worn plunger, cages corroded, and balls pitted. Ran csg scrapper. Ran new pump. bottom 1/3 rods have snap on guides.	EOT at 1408'	1 111 1	
Pumping Unit: Pumping Unit:	Pump intake at 1395'	1 111 1	
Perforations: (11/04/2005) Fruitland Coal .43", 4SPF, 68 holes at 1345'-1354' & 1370'-1378'. Acidized w/ 1500 gal 15% HCL. Frac w/ 29759 gal 70Q slickwater foam, & 10000# 40/70 sand & 83900# 20/40 sand. Formations: Ojo Alamo- 124' Kirtland- 228' Fruitland Coal- 1191' Pictured Cliffs- 1395' Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods set at 1603' 210 sx O FC: 1345'-1354' O FC: 1370'-1378' O FC: 1370'-1378' ToC at surface O FC: 1370'-1378' Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Tag fill at 1464'. New on/off tool. 10/12/13 - Test tbg, failed - Pulled rods, tbg, & pump. Found hole in jt 40 & two jts below. Replaced 3 jts. Ran csg scrapper. No tag. 4/15/14 - Pressure test, failed. Pulled rods, tbg, & pump. Spilt in tbg 39. Ran scrapper through perfs. Fish out SV. Tag fill at 145f'. Ran 3 new jnts, snap on guides, & pump. 11/03/14 - Pulled rods, tbg. & pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Ran new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Ran new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Ran new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pan new pump.		1 111 1	
Company	501 j. 101 g. 11 - 11 - 1	1 111 1	
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Formations: Ojo Alamo- Kirtland- 228' Fruitland Coal- Pictured Cliffs- 1395' Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at 1603' 10 FC: 1345'-1354' o FC: 1345'-1354' o FC: 1370'-1378' FC: 1370'-1378' FC: 1370'-1378' Tagged Fill at 1464' 4/15/2014 Additional Notes: 3/19/12 - Pulled rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at normal tag. Rods had very minor scale, no sign of wear. 6/28/12- Pulled rods, tbg & pump. Tag fill at 1464'. New on/off tool. 10/12/13 - Test tbg, failed. Pulled rods, tbg, & pump. Found hole in jt 40 & two jts below. Replaced 3 jts. Ran csg scrapper. No tag. 4/15/2014 Tagged Fill at 1464' 4/15/2014 PBTD - 1579' PBTD - 1579' PBTD - 1579'		1 111 1	
Ojo Alamo- Kirtland- 228' Fruitland Coal- 1191' Pictured Cliffs- 1395' Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at 1603' 10 SX TOC at surface O FC: 1345'-1354' O FC: 1370'-1378' O FC: 1370'-1378' Tagged Fill at 1464' A/15/2014 O FC: 1370'-1378' O FC: 1370'-1378' Tagged Fill at 1464' A/15/2014 O FC: 1370'-1378' O FC: 1345'-1354' O FC: 1345'-1		1 111 1	
Production Casing 1-1/2", 11.6#, J-55 Set at 1603' 210 sx TOC at surface O FC: 1345'-1354' Tagged Fill at 1464' 4/15/2014 Company of the production of		1 111 1	
Fruitland Coal- Pictured Cliffs- Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at normal tag. Rods had very minor scale, no sign of wear. 6/28/12- Pulled rods, tbg & pump. Tag fill at 1464'. New on/off tool. 10/12/13 - Test tbg, failed. Pulled rods, tbg, & pump. Found hole in jt 40 & two jts below. Replaced 3 jts. Ran csg scrapper. No tag. 4/15/14 - Pressure test, failed. Pulled rods, tbg, & pump. Spilt in tbg 39. Ran scrapper through perfs. Fish out SV. Tag fill at 1451'. Ran 3 new jnts, snap on guides, & pump. 11/03/14 - Pulled rods, tbg & pump. Ran new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pump had some corrosion. Shop inspection found worn plunger, cages corroded, and balls pitted. Ran csg scrapper. Ran new pump. bottom 1/3 rods have snap on guides.			
Production Casing 1-1/2", 11.6#, J-55 Set at 1603' 210 sx TOC at surface Tagged Fill at 1464' 4/15/2014 PBTD - 1579' Pictured Cliffs- 1395' Additional Notes: 3/19/12 - Pull rods, tbg, & pump. Ran csg scrapper. Rods tagging hard, picked up rods 8" to set at normal tag. Rods had very minor scale, no sign of wear. 6/28/12- Pulled rods, tbg & pump. Tag fill at 1464'. New on/off tool. 10/12/13 - Test tbg, failed. Pulled rods, tbg, & pump. Found hole in jt 40 & two jts below. Replaced 3 jts. Ran csg scrapper. No tag. 4/15/14 - Pressure test, failed. Pulled rods, tbg, & pump. Spilt in tbg 39. Ran scrapper through perfs. Fish out SV. Tag fill at 1451'. Ran 3 new jnts, snap on guides, & pump. 11/03/14 - Pulled rods, tbg & pump. Ran new pump. Rotated 6 jnts to top. EOT at 1410'. 9/10/15 - Pulled rods, tbg & pump. Pump had some corrosion. Shop inspection found worn plunger, cages corroded, and balls pitted. Ran csg scrapper. Ran new pump. bottom 1/3 rods have snap on guides.		1 111 1	
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