District 1 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

Energy Minerals and Natural Resources

Form C-101 Revised July 18, 2013

State of New Mexico

Oil Conservation Division

☐AMENDED REPORT

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

1220 South St. Francis Dr. **Santa Fe, NM 87505**

Properator Name and Address Ray Westall Operating, Inc.							OGRID Number 119305)5	
P.O. Box 4, Loco Hills, NM 88255									³ API Number 30-015-24655		
Property Code 40489 Property No.					^{3.} Property Nat wo Forks S	me tate SWI	7			Well No.	
		7				urface Loc					
UL - Lot	Section	Township	1	Range	Lot Idn	Feet from	ı N/S	Line	Feet From	E/W Line	County
• В	2	18 5	<u> </u>	28 E		660'	Nor		2090'	East	E ddy
						T	Hole Locat		 .		
UL - Lot	Section	Township		Range	Lot Idn	Feet from	n N/S I	Line	Feet From	E/W Line	County
		<u> </u>	<u> </u>		9. P	ool Inform	ation				.]
	_					l Name Wolfcamp	- Penn				Pool Code 96138
					Addition	nal Well In	formation				·
11. Work	Туре		12. 1	Well Type		13. Cable/Rota	ry 14. Lease Type 15. Ground Level Elevatio				
E 16. Mul			17. p	S posed Depth		R 18. Formatio	_	S 3646'		3646'	
N N	пріс			oposed Depth	,	S trawi	1		· ·		7/15/2014
Depth to Groun				Distar	nce from nearest		ell		Distance to nearest surface water		_
~25				-		>1 mile					n/a
X We will be	using a c	closed-loo _l	systei		lined pits Proposed Ca	asing and C	Cement Prog	gram		•	
Туре	Hole	e Size	Casi	ng Size	Casing W		Setting Depth Sacks of Cement Estimated TOC				
Surface	17	7.5"		.375"	48.0#		519'		575	'C '	C irc. to S urf.
Intermediate	11	1.0"	8.625"		32.0#	32.0# 2899')' ·	1150 'C'		C irc. to S urf.
Production *	1 * 7.875"		5.	.5"	17, 20		10985' old/3815' new		1075 'C	' + 600 *	C irc. to S urf.
					g/Cement Pi					 	
* New 5.5" 0	3815' w	v/ oversho	t, sea	l, csg pate	h. Cmtw/6	00 sx + exc	ess to circul	ate. (Exist	ting 5.5" st	ub @ 3815')	
				22.	Proposed Bl	owout Prev	vention Pro	gram			· · · · · · · · · · · · · · · · · · ·
	Туре				Vorking Pressur	e	Test Pressure			Manufacturer	
Hydraulić or Man./Dbl. Blind Ram 3000 psi						5000 psi		S haffer/ Hydril or equivalen			
best of my kno	wledge an	nd belief.			ue and complet		· · · · · · · · · · · · · · · · · · ·	OIL C	ONSERVA	TION DIV	ISION
I further certi 19.15.14.9 (B) Signature:				h 19.15.14.9	(A) NMAC] and/or	Approved By:	10	Sharra	1	
Printed name: Ben S tone							Title: "Geologist"				
Title: Agen	Pitle: Agent for Ray Westall Operating, Inc.						Approved Date	7-14-	2014	Expiration Dat	c: 7-14-2016
E-mail Address	: ben	n@soscor	sultin	g.us							• • • • • • • • • • • • • • • • • • • •
Date: 7/14/2014 Phone: 903-488-9850							Conditions of A	Annequal Att	ahad		

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

			WELL LO)ÇATIO	N AND ACR	EAGE DEDIC	<u>ATION PLA</u>	T			
API Number Poo				Pool Code	•	Pool Name					
30-015-24655				96138		SWD; Wolfcamp – Penn					
Property Code			<u>, </u>	5 Property Name					Well Number		
40489		Two Forks State ろいり							1 1		
OGRID No.					,	Elevation					
11930	5	Ray Westall Operating, Inc.							3646 feet		
					¹⁰ Surface	Location	,				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
В	2	18-S	28-E		660	North	2090	East	Eddy		
11 Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
12	12	 		15							
Dedicated Acre	s Joint	or Infill	Consolidation	Code 13 O	rder No.						
n/a	n/a n/a n/a SW					491					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	660 feet	2090 feet	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
	·		Signature Printed Name SOS Consulting, LLC agent for: Ray Westall Operating, Inc.
			18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. October 8, 1983 Date of Survey
·			Signature and Seal of Professional Surveyor: Dan Reddy NM Cert. No.5412 Certificate Number

Ray Westall Operating, Inc. Two Forks State Well No. I SWD Section 2, Twp 18-S, Rng 28-E Eddy County, New Mexico

Well Re-entry Program

Objective: Re-enter the existing wellbore by drilling out plugs, clean out to PBTD, run 5.5" casing to existing stub, acidize and run new tubulars to configure for salt water disposal.

I. **Geologic Information** - (Roy E. Johnson, Consulting Geologist) - The Wolfcamp is a light gray-brown fine to medium crystalline fossiliferous limestone with inter-crystalline vugular porosity interbedded with gray shale. Additional porosity can be found when the well bore encounters detrital carbonates which were shed off shelf and foreslope areas and transported down the Wolfcamp paleoslope.

The Cisco/Canyon Formation (Upper Penn) similar to the Wolfcamp is a gray micritic (fine grained) fossiliferous limestone with vugular porosity. The reservoirs in this area are usually limited in size with up dip porosity loss due to shelf margin carbonate build up.

The Strawn consists of similarly medium-grained carbonates, primarily dolomite and porous and permeable sandstone. Porosity values in the carbonates are generally quite low, averaging from 2 to 9%; however, associated permeability can be quite high and may lend to acceptable disposal rates when combined with the other formations.

Formation Tops

Caliche/Red Beds	Btm.272
Yates	760
Seven River	1050
Queen	1703
San Andres ,	2600
Bone Spring	4507
Wolfcamp	7120
Cisco / Canyon	8753
Strawn	9493
Atoka	10340
Morrow	10526

2. Completion Procedure

- MIRU pulling unit, reverse unit and associated equipment. Install BOP. RIH with bit and collars to drillout plugs – Drill through plugs at surface; 445'; 670'; 2800'; 3720'. Circulate hole clean.
- b. Run new 5.5" csg. 0'-3815' tied into stub w/ overshot seal assembly, casing patch.
- c. Cement w/ 600 sx + excess to circulate.
- d. WOC RIH w/ bit & collars; D/O cmt and plugs at 8382' and bottom to ~10,200'. C/O and circulate hole clean.
- e. Spot 30' cement if necessary establish PBTD ~10,080'.
- f. Perforate selected intervals from maximum top 7145' to maximum bottom 10,060'.

Well Re-entry Program (cont.)

- g. Run Tubing/Packer and set approximately 7050'. Acidize if necessary.
- h. Configure for SWD-1491; conduct MIT, commence disposal/injection.
- 3. **Tubular program** The well casing is set except as described above. (See attached Proposed Well Schematic) 2-3/8" or 2-7/8" internally coated tubing will be run and set in a packer located at approximately 7050' (within 100' of the uppermost injection perforation at 7145').
- 4. **Cementing Program** Existing Surface and Intermediate casing strings were all circulated to surface during the <u>original well drilling and completion</u> operations as follows:

Surface	13.375"	55.0#	17.5" hole	519'	575 sx	Circ to Surf			
Intermediate	8.625"	32.0#	11.0" hole	2899'	1150 sx	Circ to Surf			
Production	5.5"	17/20.0#	7.875	3815'-10985'	1075 sx	TOC 4380'			
New 5.5" Casing will be set as follows:									
Production	5.5"	17.0#	7.875" hole	0' - 3815'	600 sx +xxs	Circ to Surf			

- 5. **Pressure Control** BOP diagram is attached to this application. All BOP and related equipment shall comply with well control requirements as described NMOCD rules and regulations. Minimum working pressure of the BOP and related equipment required for the drillout shall be 3000 psi. OCD will be notified a minimum of 4 hours prior to BOP pressure tests. The test shall be performed by an independent service company utilizing a test plug (no cup or J-packer). The results of the test shall be recorded on a calibrated test chart submitted to the OCD Artesia district office. The BOP test(s) will be conducted at:
 - a) Installation;
 - b) after equipment or configuration changes;
 - c) at 30 days from any previous test, and;
 - d) anytime operations warrant, such as well conditions
- 6. **Mud Circulation System** the plugs will be drilled with 8.4 lb/gal fresh water looped through the reverse unit with all cutting recovered for disposal. Visual inspection will be made by personnel while reverse unit is in operation so cement plug cuttings and potential losses are witnessed and acted upon.
- 7. Auxiliary Well Control and Monitoring Not Applicable
- 8. **H₂S Safety** There is a low risk of H2S in this area. The operator will comply with the provisions of company H₂S contingency plan as applicable. All personnel will wear monitoring devices and a wind direction sock will be placed on location.
- 9. Logging, Coring and Testing Ray Westall Operating is not anticipating running additional logs. No corings or drill tests will be conducted. (The well may potentially be step rate tested in the future if additional injection pressures are required.)
- 10. **Potential Hazards** No abnormal pressures or temperatures are expected. No loss of circulation is expected to occur. All personnel will be familiar with the safe operation of the equipment being used to drillout and reenter this well. The maximum anticipated bottom hole pressure is 4200 psi and the maximum anticipated bottom hole temperature is 130 F.

Well Re-entry Program (cont.)

- II. Waste Management All drill cuttings and other wastes associated with the re-entry and drill out operations will be transported to a commercial surface waste disposal facility permitted by the Environmental Bureau of the New Mexico Oil Conservation Division.
- 12. Anticipated Start Date Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take two to three weeks. Installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval. In any event, it is not expected for the construction phase of the project to last more than 60 days, depending on availability of contractors and equipment. At the time of this submittal, the anticipated start date is:

July 15, 2014.

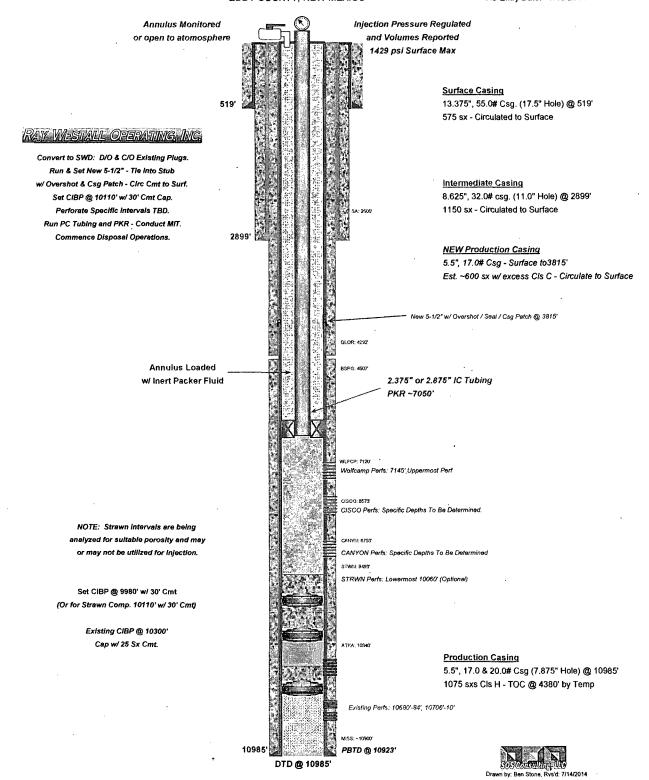
13. Configure for Salt Water Disposal – SWD Permit No. SWD-1491. Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the following tasks: drillout and workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity. Anticipated daily volume is ~10,000 bpd at a maximum surface injection pressure of 1429 psi.



WELL SCHEMATIC - PROPOSED Two Forks State Well No.1 SWD

API 30-015-24655

660' FNL & 2090' FEL, SEC. 2-T18S-R28E EDDY COUNTY, NEW MEXICO Spud Date: 10/29/1983 Re-Entry Date: ~7/15/2014



Mills.

CURRENT CONFIGURATION

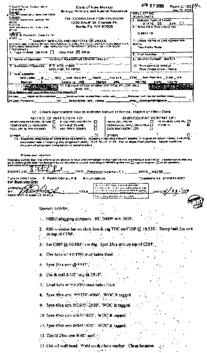
PLUGGED WELL SCHEMATIC Two Forks State Well No.1

API 30-015-24655

Well plugged by: Legacy Recornes Operating Co. 660' FNL & 2090' FWL, SEC. 2-T18S-R28E **EDDY COUNTY, NEW MEXICO**

NSL-5086

Spud Date: 10/29/1983 P&A Date: 1/05/2009



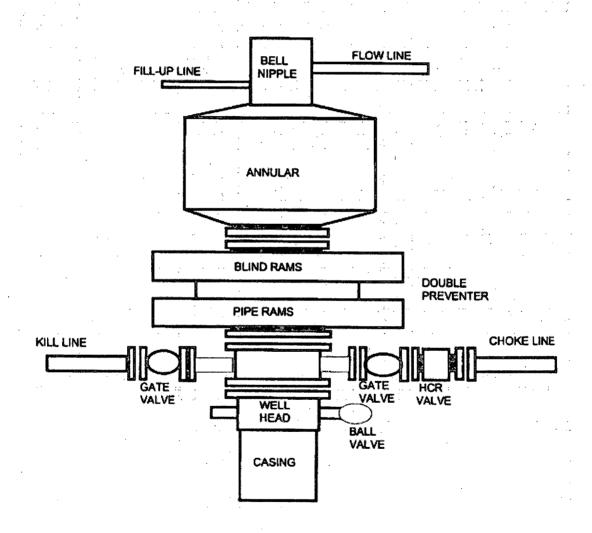
1075 sxs Cls H - TOC @ 4380' by Temp



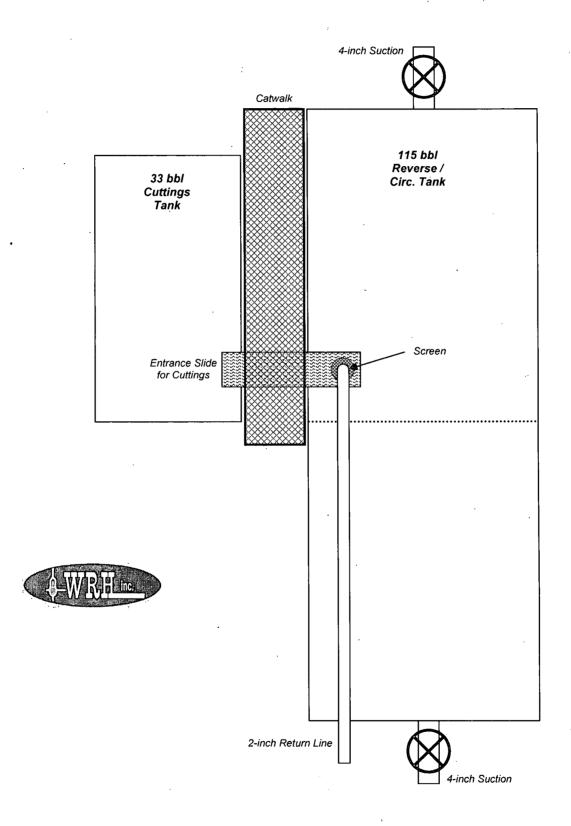
<PLUGGING ITEMS LISTED LEFT> <PRE-P&A EXISTING ITEMS LISTED RIGHT> Spot 25 sx PLUGS: 60'-0' Surface Casing 13.375", 55.0# Csg. (17.5" Hole) @ 519' Spot 45 sx 575 sx - Circulated to Surface 670'-445' Intermediate Casing (Tagged) 8.625", 32.0# csg. (11.0" Hole) @ 2899' Spot 45 sx 825'-670' 1150 sx - Circulated to Surface (Finished off w/ 1" 830 sx of total) - Circ. 30 sx to Surf. (Tagged) Spot 45 sx Cmt <P&A SUBSEQUENT SUNDRY> 2950'-2800' (Tagged) Spot 50 sx Cmt 4060'-3720' (Tagged) Shot & Pulled 5-1/2" @ 3815" Spot 25 sx Cmt WLFCP: 7120 8557'-8382' Spot 25 sx Cmt Circulated Hole w/ 9# Mud Ladened Fluid Set CIBP @ 10300' **Production Casing** 5.5", 17.0 & 20.0# Csg (7.875" Hole) @ 10985' Dump Bail 3 sx Cmt On Existing CIBP Perfs: 10340'-70' Set CIBP @ 10530' for Zone Abandon Perfs:10680'-84', 10706'-10' Formation Fluids PBTD @ 10923' DTD @ 10985'

BLOWOUT PREVENTER DIAGRAM

3000 PSI WORKING PRESSURE



Reverse / Circulation Tank for Workovers & Drillouts



Standard Operating Procedure - Re-entry Closed-Loop Reverse Unit Diagram

- 1. Blow Out Preventer tested prior to any operations. Notify OCD at least 4 hours prior.
- 2. Visual monitoring maintained on returns. Proceed with drillout operations accordingly.
- 3. Cuttings / waste hauled to specified facility. CRI LEA COUNTY
- 4. Spills contained & cleaned up immediately. Repair or otherwise correct the situation within 48 hours before resuming operations. Notify OCD within 24 hours. Remediation started ASAP if required. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as appropriate.
- 5. Subsequent sundry / forms filed as needed well returned to service.

