

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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.  
NMLC029426A  
6. If Indian, Allottee or Tribe Name**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
H E WEST A 0332. Name of Operator  
LINN OPERATING INCContact: TERRY B CALLAHAN  
E-Mail: tcallahan@linnenergy.com9. API Well No.  
30-015-283253a. Address  
600 TRAVIS STREET, SUITE 5100  
HOUSTON, TX 770023b. Phone No. (include area code)  
Ph: 281-840-427210. Field and Pool, or Exploratory  
GRAYBURG JACKSON;SR-Q-G-S

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

Sec 4 T17S R31E Mer NMP SWSE 1299FSL 2675FWL  
32.859920 N Lat, 103.873850 W Lon

11. County or Parish, and State

EDDY COUNTY COUNTY, NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomple 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

LINN WOULD LIKE APPROVAL TO TA THE H E WEST A #33 AS IT IS NOT CURRENTLY ECONOMIC AND WANT TO PRESERVE IT FOR FUTURE SAN ANDRES, GRAYBURG AND SEVEN RIVERS RECOMPLETION POTENTIAL.

## PROPOSED TA PROCEDURES:

1. TEST RIG ANCHORS PRIOR TO RIGGING UP.

2. MIRU. CHECK ALL PRESSURES (TUBING, CASING, BRADENHEAD)

3. BLEED OFF ANY PRESSURE AS NECESSARY. IF WELL IS FLOWING, FLOW BACK TO FRAC TANK OR VAC TRUCK. CONTACT ENGINEER F PRESSURE DOES NOT DIE AND WELL NEEDS TO BE KILLED.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**Accepted for record  
OCD NMOCD 3/31/14SUBJECT TO LIKE  
APPROVAL BY STATE

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

Electronic Submission #239572 verified by the BLM Well Information System  
For LINN OPERATING INC, sent to the Carlsbad  
Committed to AFMSS for processing by JERRY BLAKLEY on 03/24/2014 ()

Name (Printed/Typed) TERRY B CALLAHAN

Title REG COMPLIANCE SPECIALIST

Signature (Electronic Submission)

Date 03/21/2014

**RECEIVED**  
MAR 31 2014  
NMOCD ARTESIA

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

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

**APPROVED**  
MAR 24 2014

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**Additional data for EC transaction #239572 that would not fit on the form**

**32. Additional remarks, continued**

4. NU 5000# BOP

5. UNSET TAC AND POOH

6. RIH W/ CIBP AND SET AT <sup>3220'</sup>3200', PRESSURE UP TO 500# AND CHECK FOR LEAKS

7. PUMP 25 SXS CLASS C CMT

8. WOC AND TAG

9. PRESSURE UP ON CSG TO 500# FOR 30 MIN AND CHECK FOR LEAKS, CIRC PKR FLUID

10. POOH LD TBG

11. RDMO

12. NOTIFY OCD AND PERFORM MIT



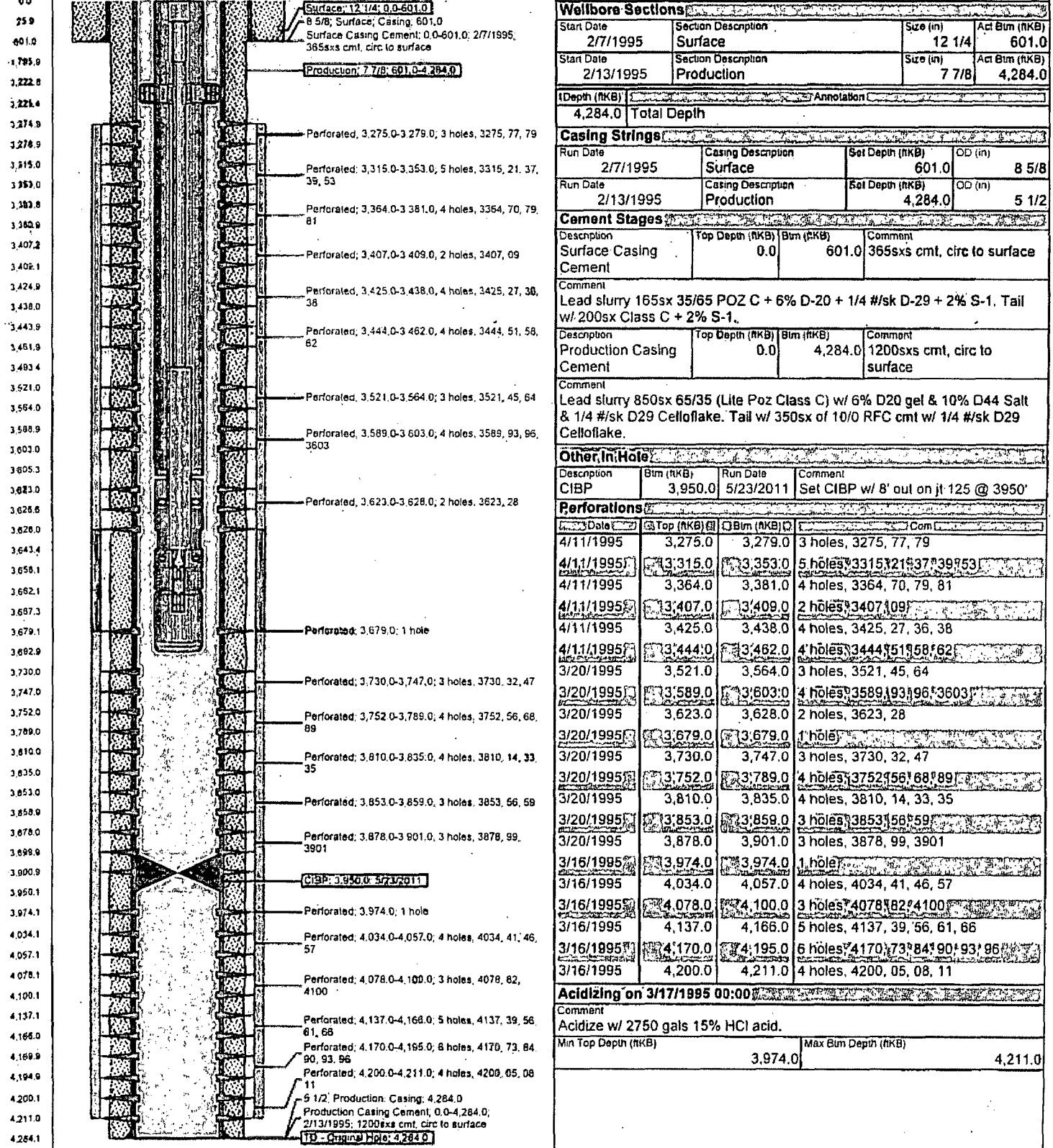
# Current Well Schematic (NM)

Well Name: WEST H E A 33

APRUWI	Field Name	County	State/Prov	Section	Township	Range	Survey	Block
3001528325	PB-GRAYBURG	Eddy	NM	4	017-S	031-E		
Ground Elevation (ft)	Orig KB Elev (ft)	KB-Grd (ft)	Initial Spud Date	Rig Release Date	TD Date	Latitude (°)	Longitude (°)	Operated?
3,917.00			2/7/1995		2/13/1995			Yes

Original Hole		3/13/2014, 12:13:32 PM		Location & Lat/Long					
MC (NKB)	Vertical schematic (actual)			NS Dist (ft)	NS Flag	EW Dist (ft)	EW Flag	Latitude (°)	Longitude (°)

MD (ft)	Vertical schematic (actual)
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Start Date	Section Description	Size (in)	Act Btm (ft)
2/7/1995	Surface	12 1/4	601.0
Start Date	Section Description	Size (in)	Act Btm (ft)
2/13/1995	Production	7 7/8	4,284.0

Depth (ft)	Annotation
4,284.0	Total Depth

Run Date	Casing Description	Set Depth (ft)	OD (in)
2/7/1995	Surface	601.0	8 5/8
Run Date	Casing Description	Set Depth (ft)	OD (in)
2/13/1995	Production	4,284.0	5 1/2

Description	Top Depth (ft)	Btm (ft)	Comment
Surface Casing	0.0	601.0	365sxs cmt, circ to surface
Cement			

Comment  
Lead slurry 165sx 35/65 POZ C + 6% D-20 + 1/4 #/sk D-29 + 2% S-1. Tail w/ 200sx Class C + 2% S-1.

Description	Top Depth (ft)	Btm (ft)	Comment
Production Casing	0.0	4,284.0	1200sxs cmt, circ to surface
Cement			

Comment  
Lead slurry 850sx 65/35 (Lite Poz Class C) w/ 6% D20 gel & 10% D44 Salt & 1/4 #/sk D29 Celloflake. Tail w/ 350sx of 10/0 RFC cmt w/ 1/4 #/sk D29 Celloflake.

Description	Btm (ft)	Run Date	Comment
CIBP	3,950.0	5/23/2011	Set CIBP w/ 8' out on jt 125 @ 3950'

Date	Top (ft)	Btm (ft)	Com
4/11/1995	3,275.0	3,279.0	3 holes, 3275, 77, 79
4/11/1995	3,315.0	3,353.0	5 holes, 3315, 21, 37, 39, 53
4/11/1995	3,364.0	3,381.0	4 holes, 3364, 70, 79, 81
4/11/1995	3,407.0	3,409.0	2 holes, 3407, 09
4/11/1995	3,425.0	3,438.0	4 holes, 3425, 27, 36, 38
4/11/1995	3,444.0	3,462.0	4 holes, 3444, 51, 58, 62
3/20/1995	3,521.0	3,564.0	3 holes, 3521, 45, 64
3/20/1995	3,589.0	3,603.0	4 holes, 3589, 93, 96, 3603
3/20/1995	3,623.0	3,628.0	2 holes, 3623, 28
3/20/1995	3,679.0	3,679.0	1 hole
3/20/1995	3,730.0	3,747.0	3 holes, 3730, 32, 47
3/20/1995	3,752.0	3,789.0	4 holes, 3752, 56, 68, 89
3/20/1995	3,810.0	3,835.0	4 holes, 3810, 14, 33, 35
3/20/1995	3,853.0	3,859.0	3 holes, 3853, 56, 59
3/20/1995	3,878.0	3,901.0	3 holes, 3878, 99, 3901
3/16/1995	3,974.0	3,974.0	1 hole
3/16/1995	4,034.0	4,057.0	4 holes, 4034, 41, 46, 57
3/16/1995	4,078.0	4,100.0	3 holes, 4078, 82, 4100
3/16/1995	4,137.0	4,166.0	5 holes, 4137, 39, 56, 61, 66
3/16/1995	4,170.0	4,195.0	6 holes, 4170, 73, 84, 90, 93, 96
3/16/1995	4,200.0	4,211.0	4 holes, 4200, 05, 08, 11

Acidizing on 3/17/1995 00:00

Comment  
Acidize w/ 2750 gals 15% HCl acid.

Min Top Depth (ft)	Max Btm Depth (ft)
3,974.0	4,211.0

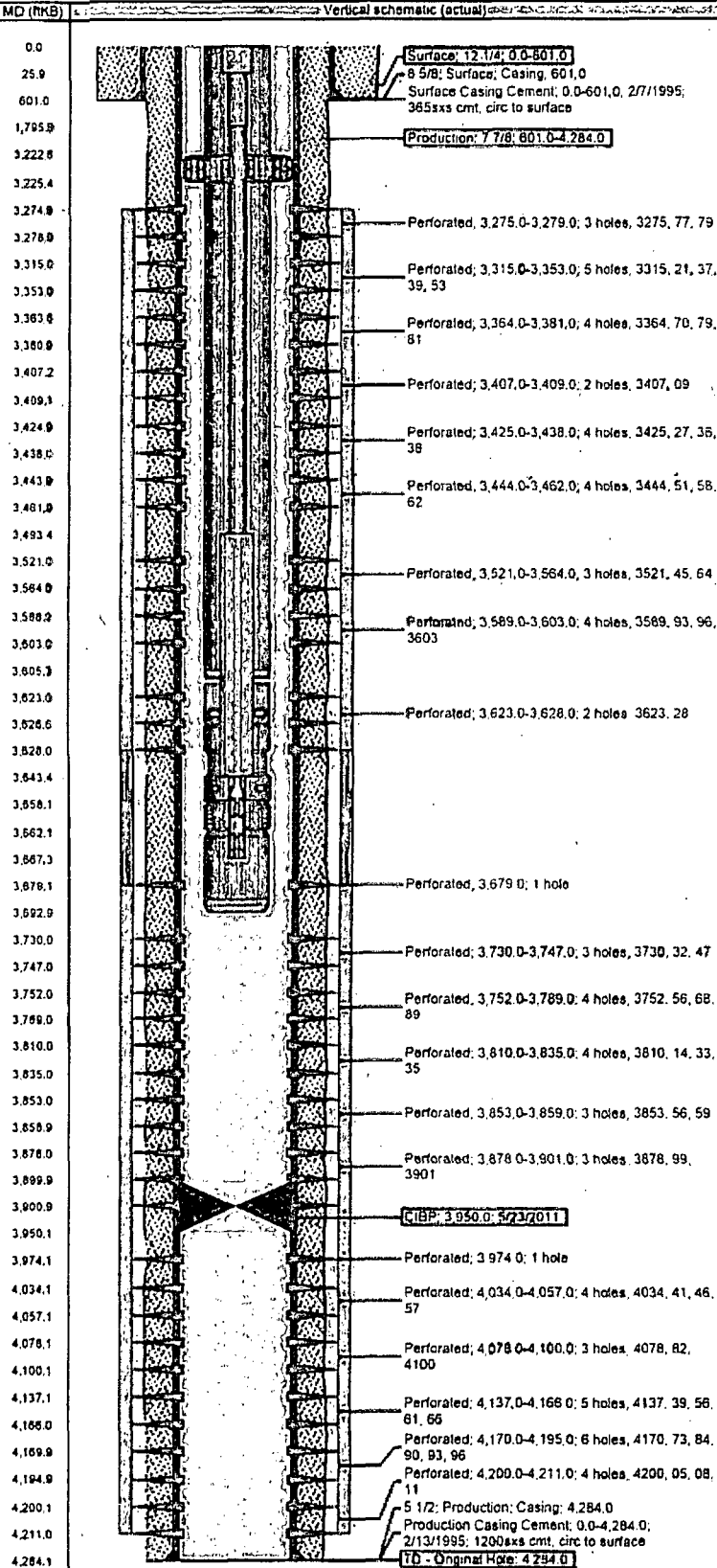


# Current Well Schematic (NM)

Well Name: WEST H E A 33

API/WWI 3001528325	Field Name PB-GRAYBURG	County Eddy	State/Prov NM	Section 4	Township 017-S	Range 031-E	Survey	Block
Ground Elevation (ft) 3,917.00	Orig KB Elev (ft)	KB-Grd (ft)	Initial Spud Date 2/7/1995	Rig Release Date	TD Date 2/13/1995	Latitude (°)	Longitude (°)	Operated? Yes

Original Hole, 3/13/2014 12:13:33 PM



## Sand Frac'on 3/19/1995 00:00

Comment Frac'd w/30,000 gals gel + 76,000# 20/40 Brady sand + 24,000# resin coated sand.			
Min Top Depth (ftKB)		3,974.0	Max Btm Depth (ftKB)
			4,211.0

## Acidizing on 3/20/1995 00:00

Comment Acidize w/ 4850 gals 15% HCl acid.			
Min Top Depth (ftKB)		3,521.0	Max Btm Depth (ftKB)
			3,901.0

## Sand Frac'on 3/28/1995 00:00

Comment Frac'd w/21,716 gals gel + 50,750# 20/40 Brady Sand + 16,540# resin coated sand.			
Min Top Depth (ftKB)		3,521.0	Max Btm Depth (ftKB)
			3,901.0

## Acidizing on 4/12/1995 00:00

Comment Acidize w/ 2700 gals 15% HCl acid.			
Min Top Depth (ftKB)		3,275.0	Max Btm Depth (ftKB)
			3,462.0

## Acidizing on 6/5/1998 00:00

Comment			
Acidize w/ 2150 gals 15% HCl acid + 4000# rock salt.			
Min Top Depth (ftKB)		3,679.0	Max Btm Depth (ftKB)
			4,211.0

## Acidizing on 6/5/1998 00:00

Comment			
Acidize w/ 2250 gals 15% HCl acid + 4200# rock salt.			
Min Top Depth (ftKB)		Max Btm Depth (ftKB)	
3,275.0		3,628.0	

## Tubing Strings

Run Date	Pull Date	Tubing Description				Set Depth (ftB)
7/3/2013		Tubing - Production				3,693.0
Item Description	Length (ft)	Size (in)	OD (in)	ID (in)	Grade	WT (lbm)
Tubing	3,222.80	103	2 7/8	2.441	J-55	6.50
Anchor/catcher	12.75	1	4 5/8	12.441		
Tubing	379.88	12	2 7/8	2.441	J-55	6.50
Pump barrel	321.10	1	2 7/8			
Sealing Nipple	31.50	1	2 7/8	2.441	J-55	6.50
Perforated Tubing Joint	4.00	1	2 7/8			
mud joint	31.00	1	2 7/8			
Bull Plug		1	2 7/8			

## Rod Strings

Run Date	Pull Date	Rod Description			Set Depth (ft)
7/4/2013		Rod			3,667.3
Item Des	Qty	Len (ft)	OD (in)	Grade	WT (lb/ft)
Polished Rod 1 1/4 X 1 1/2 liner X 26	1	26.00	1 1/4		
Sucker Rod	71	1,770.00	7/8	D	12.22
Sucker Rod	68	1,697.30	3/4	D	1.63
Sinker Bar	76	150.00	1 1/2		6.01
Tubing Pump	1	24.00	3/4	D	1.50



# Proposed TA (NM)

Well Name: WEST H E A 33

API/ULI	Field Name	County	State/Prov	Section	Township	Range	Survey	Block
3001528325	PB-GRAYBURG	Eddy	NM	4	017-S	031-E		
Ground Elevation (ft)	Orig KB Elev (ft)	KB-Grd (ft)	Initial Spud Date	Rig Release Date	TD Date	Latitude (°)	Longitude (°)	Operated?
3,917.00			2/7/1995		2/13/1995			Yes

Original Hole, 3/13/2014 12:09:00 PM

## Original Hole Data

Location & Lat/Long					
NS Dist (ft)	NS Flag	EW Dist (ft)	EW Flag	Latitude (°)	Longitude (°)
1,299.0	FSL	2,675.0	FWL	32° 51' 35.712" N	103° 52' 25.86" E

Wellbore Sections			
Start Date	Section Description	Size (in)	Act Btm (ftKB)
2/7/1995	Surface	12 1/4	601.0
Start Date	Section Description	Size (in)	Act Btm (ftKB)
2/13/1995	Production	7 7/8	4,284.0

Depth (ftKB)	Annotation
4,284.0	Total Depth

Casing Strings			
Run Date	Casing Description	Set Depth (ftKB)	OD (in)
2/7/1995	Surface	601.0	8 5/8
Run Date	Casing Description	Set Depth (ftKB)	OD (in)
2/13/1995	Production	4,284.0	5 1/2

Cement Stages				
Start Date	Description	Top (ftKB)	Btm (ftKB)	Comment
2/7/1995	Surface Casing Cement	0.0	601.0	365sxs cmt, circ to surface
Start Date	Description	Top (ftKB)	Btm (ftKB)	Comment
2/13/1995	Production Casing Cement	0.0	4,284.0	1200sxs cmt, circ to surface

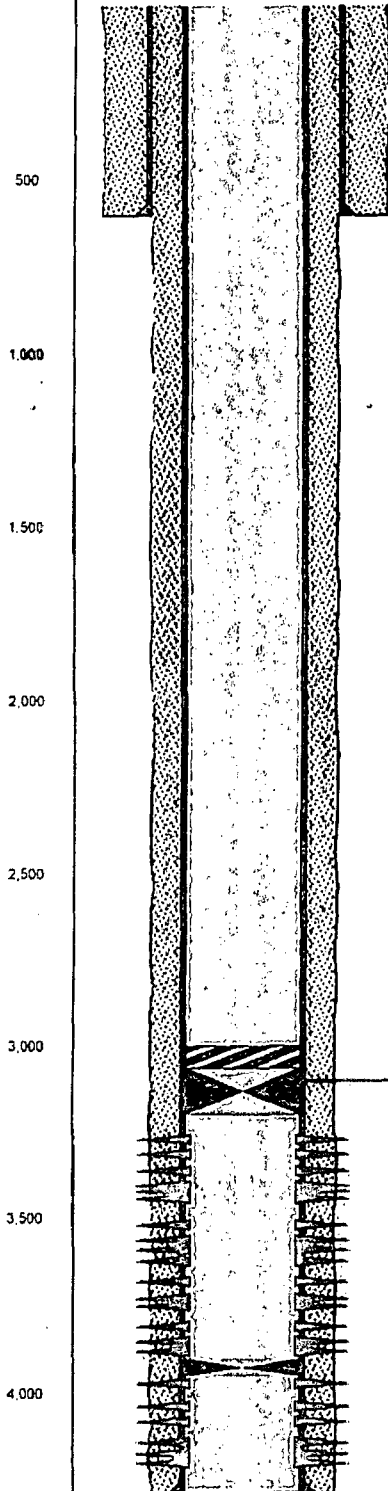
## Proposed TA Procedure

We plan to TA this well as it is not currently economic and want to preserve it for future San Andres, Grayburg and Seven Rivers recompletion potential.

### TA Procedure:

1. Test rig anchors prior to rigging up.
2. MIRU. Check all pressures (tubing, casing, braden head)
3. Bleed off any pressure as necessary. If well is flowing, flow back to frac tank or vac truck. Contact engineer if pressure does not die and well needs to be killed.
4. NU 5000# BOP
5. Unset TAC and POOH
6. RIH w/ CIBP and set at 3200', Pressure up to 500# and check for leaks
7. Pump 25 SXS Class C Cmt
8. WOC and Tag
9. Pressure up on csg to 500# for 30 min and check for leaks, circulate pkr fluid
10. POOH Lay down tubing
11. RDMO
12. Notify OCD and perform MIT

Cemented Bridge Plug			
Run Date	Des	Btm (ftKB)	Prop Run?
	CIBP with 25sxs cement	3,200.0	Yes
5/23/2011	CIBP	3,950.0	No



**BUREAU OF LAND MANAGEMENT**  
**Carlsbad Field Office**  
**620 East Greene Street**  
**Carlsbad, New Mexico 88220**  
**575-234-5972**

**Approved for a period of 6 months ending 9/24/2014 subject to conditions of approval. JDB**

**Temporary Abandonment of Wells on Federal Lands**  
**Conditions of Approval**

A temporarily abandoned well is defined as a completion that is not capable of production in paying quantities but which may have value as a service well. Pursuant to 43 CFR 3162.3-4 (c), no well may be temporarily abandoned for more than 30 days without the prior approval of the authorized officer.

Temporary Abandonment (TA) status approval requires a successful mechanical or casing integrity test as follows:

1. A Notice of Intent (NOI) Sundry Notice (Form 3160-5) requesting approval to run a mechanical integrity test (MIT) or casing integrity test (CIT).
2. A description of the temporary abandonment procedure.
  - a. A bridge plug or packer must be installed as close to 50 feet above any open perforations or open hole as possible. If a cement plug is used, the top of the cement must be verified by tagging. CIBP must be capped with minimum 25 sacks cement, placed with tubing, or 35 feet of cement if placed with bailer.
  - b. The wellbore must be filled with corrosion inhibited fluid and pressure tested to 500 psi. The casing shall be capable of holding this pressure for at least 30 minutes. Any leak-off will be evaluated.
  - c. All downhole production/injection equipment (tubing, rods, etc.) shall be removed from the casing if they are not isolated by a packer.
  - d. A bradenhead test must be conducted. If the test indicates a problem exists, a remedial plan and time frame for remediation shall be submitted within ninety (90) days of the test.
  - e. Contact the appropriate BLM office at least 24 hours prior to the scheduled Casing Integrity Test. For wells in Eddy County, 575-361-2822; Lea County 575-393-3612.
3. **Provides justification why the well should be temporarily abandoned rather than permanently plugged and abandoned and an estimated date that the well will be returned to beneficial use or plugged and abandoned. 43 CFR 3162.3-4 (a) The operator shall promptly plug and abandon...wells in which oil or gas is not encountered in paying quantities...**

Wells that successfully pass the casing integrity test **may** be approved for Temporary Abandonment (TA) status provided that the operator:

1. **Submits a subsequent Sundry Notice** (Form 3160-5) requesting TA approval **with well bore diagram** with all perforations and CIBP's and tops of cement on CIBP's.
2. Describes the temporary abandonment procedure.
3. Attaches a clear copy or the original of the pressure test chart.
4. Give justification to allow well to be place in TA status and plan for future use of well with time frame that well will be place back on line or plans to P&A well will be submitted.

If the well does not pass the casing integrity test, then the operator shall within 30 days submit to BLM for approval one of the following:

1. A procedure to repair the casing so that a TA approval can be granted.
2. A procedure to plug and abandon the well.

**H E West A #33**

1. Well may be approved to be TA/SI for a period of 6 months or until 9/24/2014 after successful MIT and subsequent report is submitted. CIBP to be set at 3220'
2. This will be the last TA approval for this well.
3. Must submit NOI to recompleat or NOI to P&A. Must be submitted by 9/24/2014.