Submit 1 Copy To Appropriate District 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

HOBBS OCD
APR 01 2014
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-37971
5. Indicate Type of Lease STATE ■ FEE ☐
6. State Oil & Gas Lease No. 312479

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.)

7. Lease Name or Unit Agreement Name: NORTH VACUUM ABO UNIT
1. Type of Well: Oil Well ☐ Gas Well ■ Other
8. Well Number #305
2. Name of Operator: CROSS TIMBERS ENERGY, LLC
9. OGRID Number 298299
3. Address of Operator: 400 WEST 7th STREET, FORT WORTH, TX 76102
10. Pool name or Wildcat: VACUUM; ABO, NORTH (61760)

4. Well Location
Unit Letter J : 2600 feet from the S line and 2630 feet from the E line
Section 26 Township 17S Range 34E NMPM County LEA

11. Elevation (*Show whether DR, RKB, RT, GR, etc.*) 4022 GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	■	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			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.

MIRU. POH rods, pmp & tbg. Perf Additional ABO formation ; acideze w/straddle pkr assy. TIH tbg, pmp & rods. RDMO. Return to production.
See attached detail.

Spud Date: 07/03/2006 Rig Release Date: 07/23/2006

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

SIGNATURE Robbie A. Grigg TITLE Regulatory Compliance DATE 3/31/2014
Type or print name Robbie A Grigg E-mail address: rgrigg@mspartners.com PHONE: 817-334-7842

For State Use Only

APPROVED BY: TITLE Petroleum Engineer DATE APR 01 2014
Conditions of Approval (if any):

APR 01 2014

TUBULARS:

Surface Casing: 8⅝", 24#, J-55 @ 1,723'. Cmt'd w/750 sx cl "C" cmt w/4% gel & 200 sx cl "C" cmt w/2%$CaCl_2$.. Circ 116 sx to surf.

Production Casing: 5½", 17#, P-110 @ 9,145'. Cmt'd w/590 sx 50:50 Poz:"H" (11.8 PPG, 2.29 ft^3/sx) & 345 sx cl "H" cmt (15.6 PPG, 1.33 ft^3/sx).
Min Drift: 4.767". Internal yield: 10,640 psi.
Marker jt fr/8,016'-8,031'.

DV Tool: 4,992'. Cmt'd w/1,285 sx 50:50 Poz:"C" (11.8 PPG, 2.30 ft^3/sx) followed by 200 sx cl "C" cmt (14.8 PPG, 1.33 ft^3/sx)

Tubing: 254 jts 2⅞", 6.5#, J-55, EUE, 8rd tbg (8,006'), TAC, 11 jts 2⅞", 6.5#, J-55, EUE, 8rd tbg (347'), 1 jt 2⅞", 6.5#, J-55, EUE, 8rd, IPC tbg (32'), SN, 4' perf'd sub, 4'x2⅞" pup jt, 4 jts 2⅞", 6.5#, J-55, EUE, 8rd BPMA. Landed @ 8,532'. SN @ 8,405'.

Rods: 1½"x24' SMPR, 1 – 2'x1" pony rod, 82 – 1", 94 - ⅞" & 154 – ¾" D-90 rods, 6 – 1½" SB's, 4'x⅞" stabilizer.

Pump: 1½" x 24' w/1¼"x8' GAC.

Existing Perforations: 8,428'-32', 8,442'-48' & 8,456'-70' (2 JSPF, 48 holes), 9/29/06.
8,702'-11', 8,720'-24', 8,746'-52', 8,759'-64', 8,767'-70' & 8,782'-88' (1 JSPF, 33 holes) (9/22/06). Under CIBP.
8,802'-04', 8,818'-20', 8,840'-54', 8,869'-71', 8,897'-8,902', 8,917'-25' & 8,940'-44' (1 JSPF, 37 holes), 9/6/06. Under CIBP.
9,007'-70', 1 JSPF, 70 holes, 9/15/06. Under CIBP.

Proposed Perforations: 8,481', 8,487', 8,502', 8,506', 8,516', 8,519', 8,538', 8,549', 8,572', 8,581', 8,597', 8,602' & 8,610' (2 JSPF, 26 holes)

PBTD: 8,680'.

OPBTD: 9,095'

SPECIFICS OF OPERATION:

1) Safety is the highest priority. Hold tailgate safety meetings prior to each significant stage of the operation. Ensure all personnel understand the procedure, its objectives, and the precautions to be followed at all points.
2) MIRU workover rig & swab tank.
3) MI ~5 jts 2⅞", 6.5#, J-55, EUE, 8rd tbg.
4) Hang well off.
5) Unseat pmp. POH w/rods & pmp. Send pmp to shop for R&R.
6) ND wellhead. Rel TAC. NU BOP.

7) POH w/2⅞" tbg.

8) If scale buildup is observed on tubulars, run 4¾" bit & 5½" casing scraper to PBTD @ 8,560'. POH w/tbg. LD bit & scraper.

9) MIRU WL trk. Install packoff. RIH w/3⅛" select fire csg gun, loaded 2 JSPF. Correlate to Gray WL GR/CCL/CBL dated 8/30/06. Perf Abo w/3⅛" csg gun, 2 JSPF @: 8,610', 8,602', 8,597', 8,581', 8,572', 8,549', 8,538', 8,519', 8,516', 8,506', 8,502', 8,487' & 8,481' (129' OA, 69' net, 26 holes).

10) POH w/csg gun. RDMO WL trk.

11) PU & TIH w/2⅞" SN (run SV in place), 5½" straddle pkr ass'bly (space packing elements 12' apart) dressed for 17# csg, mech collar locator & 2⅞" tbg to ~8.630'.

12) Locate marker jt fr/8,016'-8,031'. Locate csg collar @ 8,610'.

13) Set pkr in blank pipe below btm perf @ 8,610'. Press tst pkr.

14) Rel pkr. PU & straddle perf @ 8,610'.

15) MIRU stimulation services.

16) Load hole w/FW.

17) Spot acid to EOT.

18) Acidize new Abo perfs w/1,300 gals 20% NEFE HCl as follows:

Top Interval	Btm Interval	Acid Vol (gals)
8,610'	8,610'	100
8,597'	8,602'	200
8,581'	8,581'	100
8,572'	8,572'	100
8,549'	8,549'	100
8,538'	8,538'	100
8,516'	8,519'	200
8,502'	8,506'	200
8,491'	8,497'	200
Total Acid		1,300

If perfs communicate, PU to next setting & continue.

19) PU to ~8,380' (above top existing perf @ 8,428').

20) Rev circ 2 bbls FW.

21) Set pkr.

22) Fish SV.

23) Acidize all perfs w/remaining acid (if any).

24) Swab & test as necessary. Record volumes on hourly basis & report daily.

25) Rel straddle pkr ass'bly.

26) POH w/tbg & straddle pkr ass'bly. LD straddle pkr ass'bly.

27) TIH w/1 jt 2⅞", 6.5#, J-55, EUE, 8rd tbg (bull plugged), 4' perf'd sub, SN, ~9 jts 2⅞" tbg, TAC & 2⅞" tbg to surf. Tag btm. PU & land tbg @ 1st connection.

28) ND BOP.

29) Set TAC.

30) NU WH.

31) TIH w/pmp & rods as pulled.

32) Space out pump. Hang well on.

33) RDMO workover rig.

34) Start well ppg.

35) Test well as necessary.

Proposed Schematic & Details

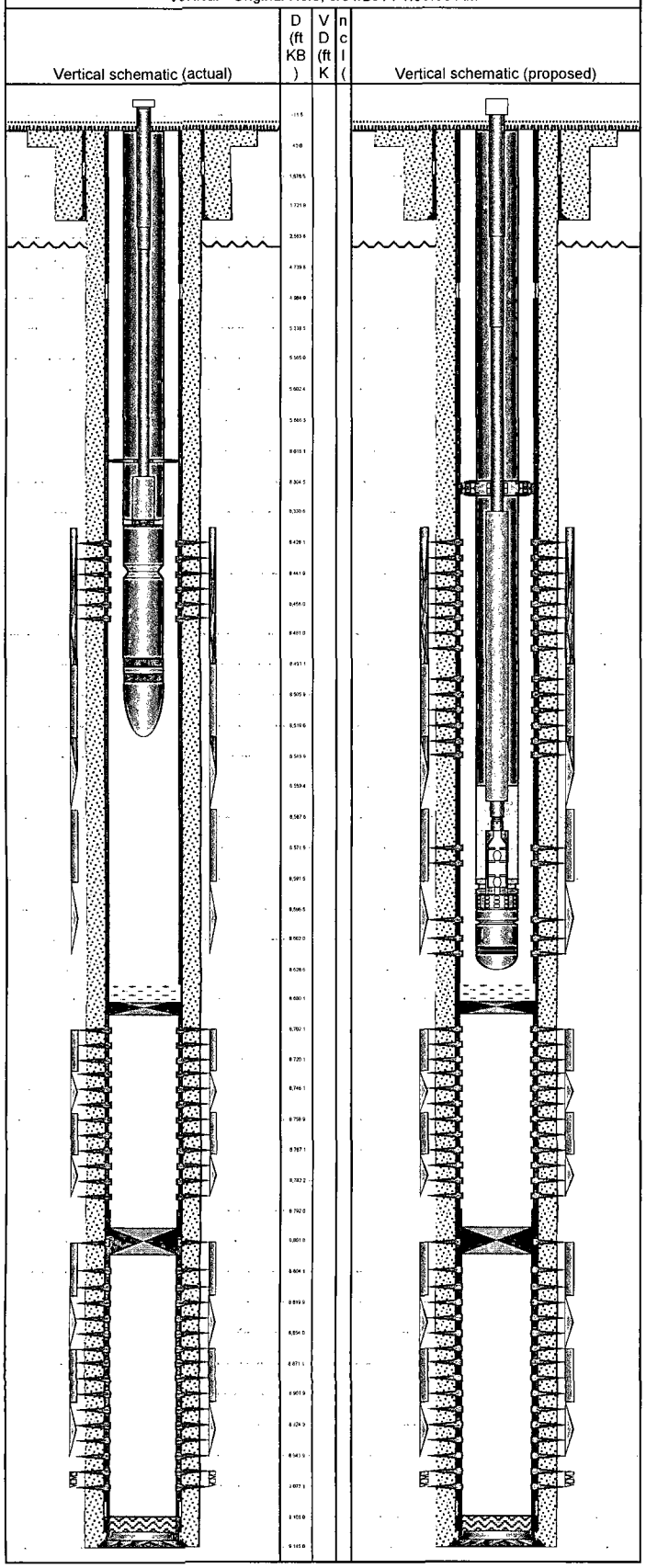
Well Name	API/UWI	County	State/Province	Field Name
NORTH VACUUM ABO UNIT 305	3002537971	Lea	New Mexico	VACUUM N

Location	Township	Range	Section	Latitude (°)	Longitude (°)
2600 FSL, 2630 FEL	17S	34E	26	32° 48' 20.91" N	103° 31' 52.22" W

Section	Survey	Block	Township	Abstract

Original KB Elevation (ft)	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)	Spud Date
4,039.50	4,022.00	17.50	7/3/2006

Vertical - Original Hole, 3/31/2014 1:00:00 AM



Jobs

Open Additional Pay - OAP, <dttmstart>

Type	Planned Start Date	Objective
Open Additional Pay - OAP	3/31/2014	Add perfs and acidize to access frac.

Wellbore Sections

Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date

Cement Stages

Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment

Perforations

Top (ftKB)	Btm (ftKB)	Shot Dens (shot s/ft)	Date	Zone	Calculated Shot Total
8,481.0	8,481.0	2.0	3/31/2014	ABO, Original Hole	1
8,487.0	8,487.0	2.0	3/31/2014	ABO, Original Hole	1
8,502.0	8,502.0	2.0	3/31/2014	ABO, Original Hole	1
8,506.0	8,506.0	2.0	3/31/2014	ABO, Original Hole	1
8,516.0	8,516.0	2.0	3/31/2014	ABO, Original Hole	1
8,519.0	8,519.0	2.0	3/31/2014	ABO, Original Hole	1
8,538.0	8,538.0	2.0	3/31/2014	ABO, Original Hole	1
8,549.0	8,549.0	2.0	3/31/2014	ABO, Original Hole	1
8,572.0	8,572.0	2.0	3/31/2014	ABO, Original Hole	1
8,581.0	8,581.0	2.0	3/31/2014	ABO, Original Hole	1
8,597.0	8,597.0	2.0	3/31/2014	ABO, Original Hole	1
8,602.0	8,602.0	2.0	3/31/2014	ABO, Original Hole	1
8,610.0	8,610.0	2.0	3/31/2014	ABO, Original Hole	1

Stim/Treat Stages

Type	Start Date	Top (ftKB)	Btm (ftKB)	Com
Acidizing	3/31/2014	8,491.0	8,610.0	Proposed: 1300 gal 20% HCL NEFE, each perf cluster treated individually, w straddle pkr, per procedure. Remaining acid put away in all perfs.

Other In Hole

Des	Com	OD (in)	Run Date	Top (ftKB)	Btm (ftKB)

Tubing - Production set at 8,628.5ftKB on 3/31/2014 00:00

Set Depth (ftKB)	Comment	Run Date	Pull Date
8,628.5		3/31/2014	

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing	2 7/8	6.50	J-55	8,287.00	263	17.5	8,304.5
TAC	4 1/4			3.00	1	8,304.5	8,307.5
Tubing	2 7/8	6.50	J-55	252.00	8	8,307.5	8,559.5
IPC jt	2 7/8	6.50	J-55	32.00	1	8,559.5	8,591.5
Pump Seating Nipple	2 7/8			1.00	1	8,591.5	8,592.5
Perforated Sub	2 7/8			4.00	1	8,592.5	8,596.5
Bull Plug Mud Anchor Jt	2 7/8	6.50		32.00	1	8,596.5	8,628.5

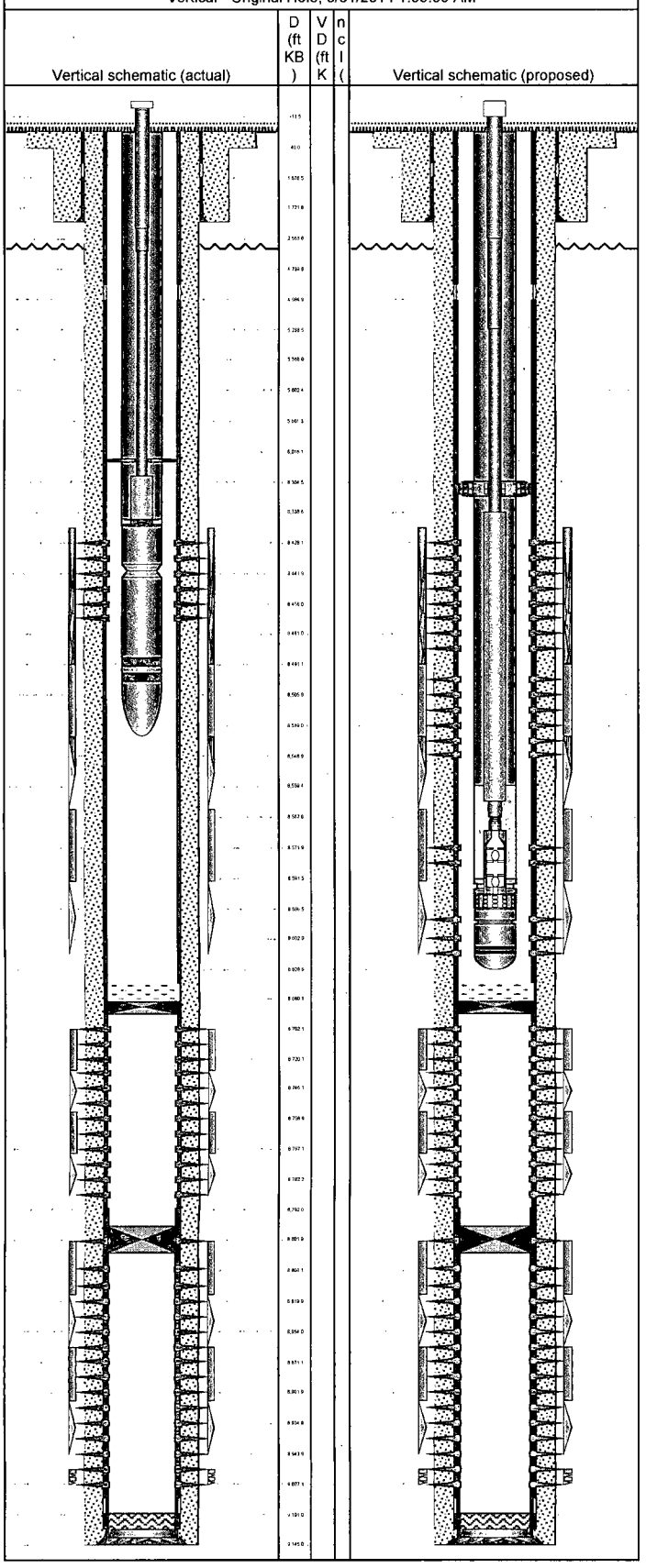
Insert Pump on 3/31/2014 01:00

Rod Description: Insert Pump

Item Des	OD (in)	Grade	Jts	Len (ft)
Polished Rod	1 1/2	SM	1	24.00
Sucker Rod	1	D-90	103	2,575.00

Proposed Schematic & Details

Vertical - Original Hole, 3/31/2014 1:00:00 AM



Item Des	OD (in)	Grade	Jts	Len (ft)
Sucker Rod	7/8	D-90	107	2,675.00
Sucker Rod	3/4	D-90	124	3,100.00
Sinker Bar	1 1/2	K	9	225.00
Stabilizer Rod	7/8	D	1	4.00
RHBO Tool	3/4		1	1.00
Rod Insert Pump	1 1/2		1	24.00