

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

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. 30-025-29238
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 312479
7. Lease Name or Unit Agreement Name NORTH VACUUM ABO UNIT
8. Well Number 281
9. OGRID Number 298299
10. Pool name or Wildcat VACUUM; ABO, NORTH
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4026 GR

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-103) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
CROSS TIMBERS ENERGY, LLC

3. Address of Operator
400 WEST 7th STREET, FORT WORTH, TX 76102

4. Well Location
Unit Letter A : 800 feet from the N line and 550 feet from the E line
Section 23 Township 17S Range 34E NMPM County LEA

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.

Attempted conversion to injection; Abandoned conversion and returned to production.

1. Pull well
2. Add perfs in Abo E
3. Att. install injection equip. Found leak.
4. Squeezed leak two times. Discussed remedial options w/ Maxey Brown. Elected to RTP.
5. Install production equipment, RTP. 12/08/2014

See attached schematic & history.

Spud Date: 05/15/1985

Rig Release Date: 07/02/1985

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

SIGNATURE Laura Stone TITLE Regulatory Compliance DATE 01/14/2015

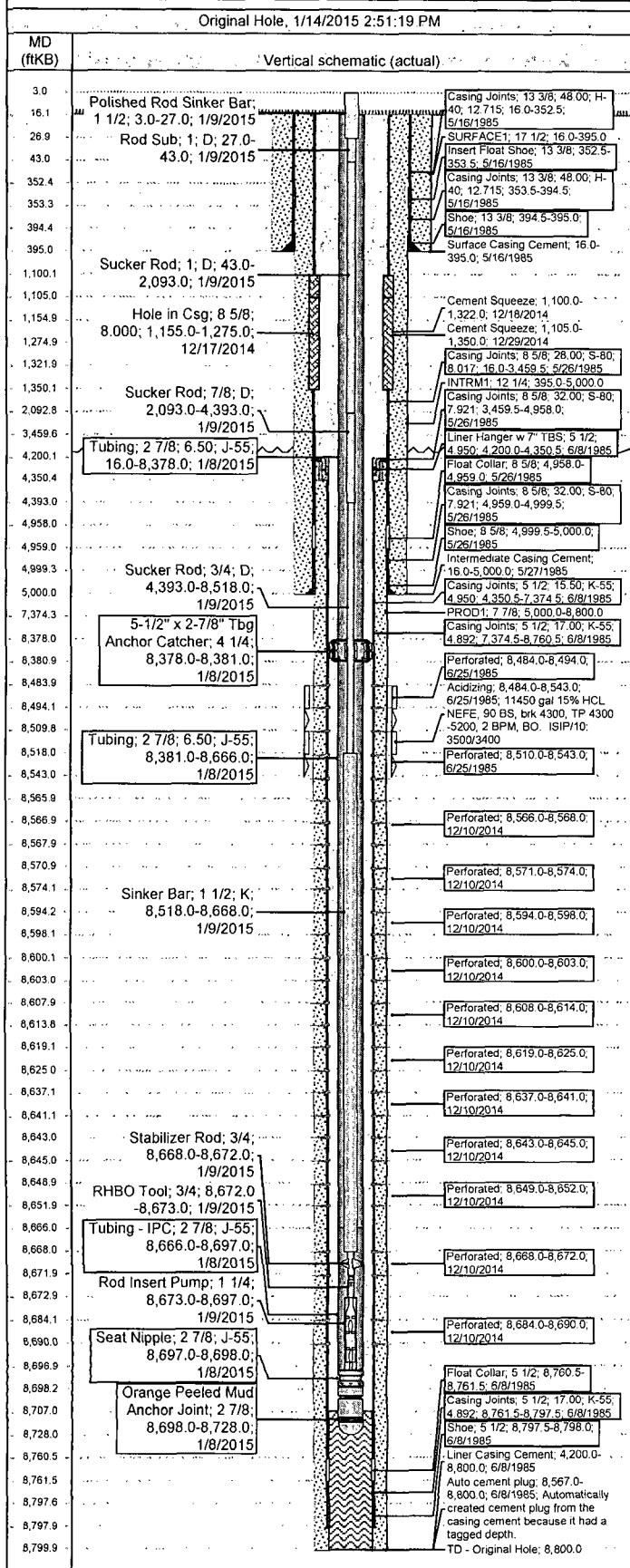
Type or print name LAURA STONE E-mail address: rgrigg@mspartners.com PHONE: 817-334-7842
For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 01/16/15
Conditions of Approval (if any):

JAN 20 2015

Schematic & History

Well Name NORTH VACUUM ABO UNIT 281		API/UWI 3002529238	County Lea		State/Province New Mexico	Field Name VACUUM N	
Location 800 FNL & 550 FEL		Township 17S	Range 34E	Section 23	Latitude (°) 32° 33' 23.726" N	Longitude (°) 103° 31' 26.328" W	
Section	Survey	Block		Township		Abstract	
Original KB Elevation (ft) 4,034.00		Ground/Corrected Ground Elevation (ft) 4,018.00		KB-Ground Distance (ft) 16.00		Spud Date 5/15/1985	



Jobs

Type	Start Date	Summary
Workover	1/1/1900	NO HISTORICAL PULL DATA IN FW NOR BKE WELL FILES.
Drilling Original & Initial Completion	5/15/1985	D&C Abo, perf, acidize, swb & fl 133 BO, 46 BW 11 hrs, SITP 650 psi, flow to 60 psi, perform PBU tst, 72 hr BHPBU 1135-2982 psi. Sqz scale inhib. FI 3 days, POP.
Repair Tbg Failure	2/3/2014	PI rds, HO rds, pull tbg, RIH tstg tbg, it abv SN burst, RIh exch pmp & rds. RTP.
Convert To Injection	12/8/2014	(CTI failed) LD rods & pmp, POOH tbg, RIH 5-1/2 bit & scrpr, tag 8,704', perf Abo E, RIH inj pkr, circ. pkr fluid, perform MIT 500#, lost 100#/30", MUH pkr tstg, still leaking 100#/30". Set RBP in LT, tst RBP gd, tst 8-5/8 csg, isolate leak @ 1,155-1,275'. Spot cement across leak, sweat in, left 1000# on sqz, SDOWE, DO, gd cement, void @ 1230-1245', finish DO, tst sqz 400#, lost 50#/30". Spot cement across leak, sweat in, bled off pressure, SDOH & WE, DO gd cement, tst sqz 500# lost 25#/15", tst csg above & below leak, all holding, rel. RBP, RTP.

Wellbore Sections

Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date
SURFACE1	Original Hole	17 1/2	16.0	395.0	5/15/1985
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date
INTRM1	Original Hole	12 1/4	395.0	5,000.0	5/17/1985
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date
PROD1	Original Hole	7 7/8	5,000.0	8,800.0	5/28/1985

Surface 395.0 ftKB 5/16/1985

Comment

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
13 3/8	48.00	H-40	16.0	352.5	336.50	Casing Joints
13 3/8			352.5	353.5	1.00	Insert Float Shoe
13 3/8	48.00	H-40	353.5	394.5	41.00	Casing Joints
13 3/8			394.5	395.0	0.50	Shoe

Intermediate 5,000.0 ftKB 5/26/1985

Comment

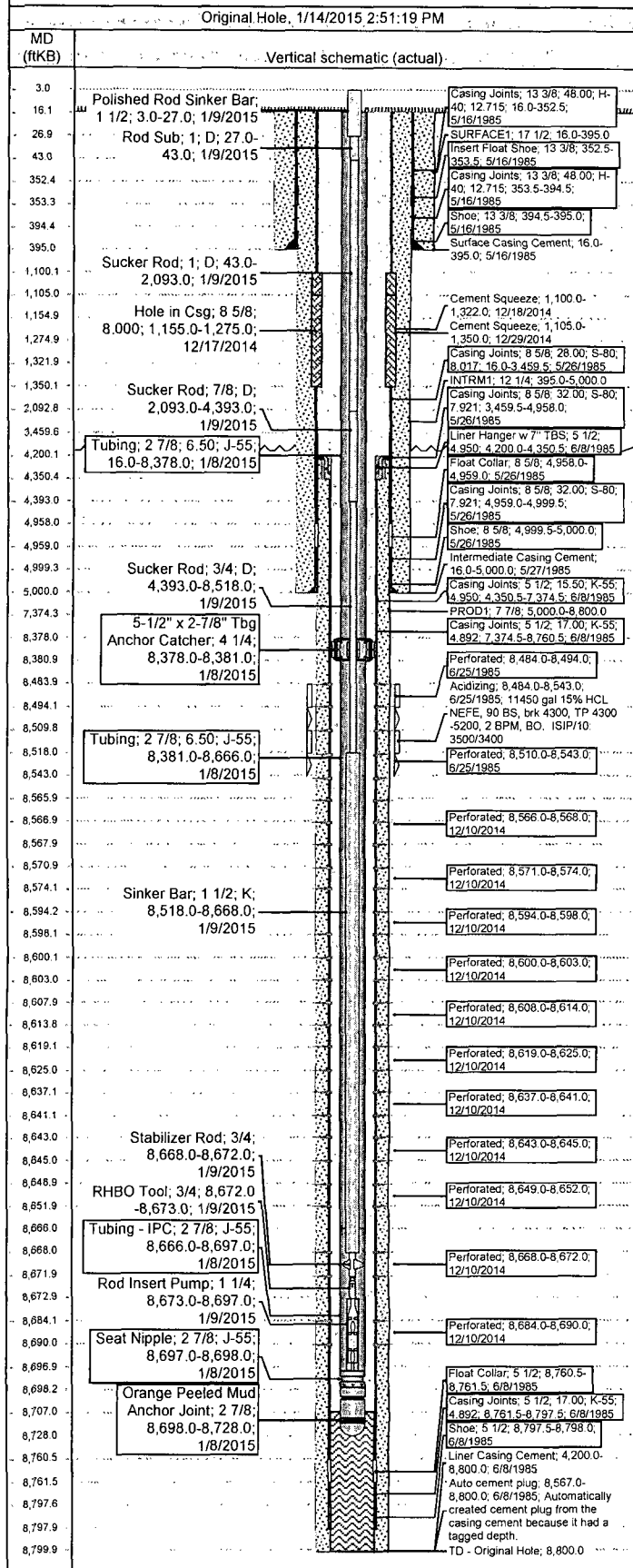
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
8 5/8	28.00	S-80	16.0	3,459.5	3,443.50	Casing Joints
8 5/8	32.00	S-80	3,459.5	4,958.0	1,498.50	Casing Joints
8 5/8			4,958.0	4,959.0	1.00	Float Collar
8 5/8	32.00	S-80	4,959.0	4,999.5	40.50	Casing Joints
8 5/8			4,999.5	5,000.0	0.50	Shoe

Liner 8,798.0 ftKB 6/8/1985

Comment

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
5 1/2			4,200.0	4,350.5	150.50	Liner Hanger w 7" TBS
5 1/2	15.50	K-55	4,350.5	7,374.5	3,024.00	Casing Joints
5 1/2	17.00	K-55	7,374.5	8,760.5	1,386.00	Casing Joints
5 1/2			8,760.5	8,761.5	1.00	Float Collar
5 1/2	17.00	K-55	8,761.5	8,797.5	36.00	Casing Joints
5 1/2			8,797.5	8,798.0	0.50	Shoe

Schematic & History

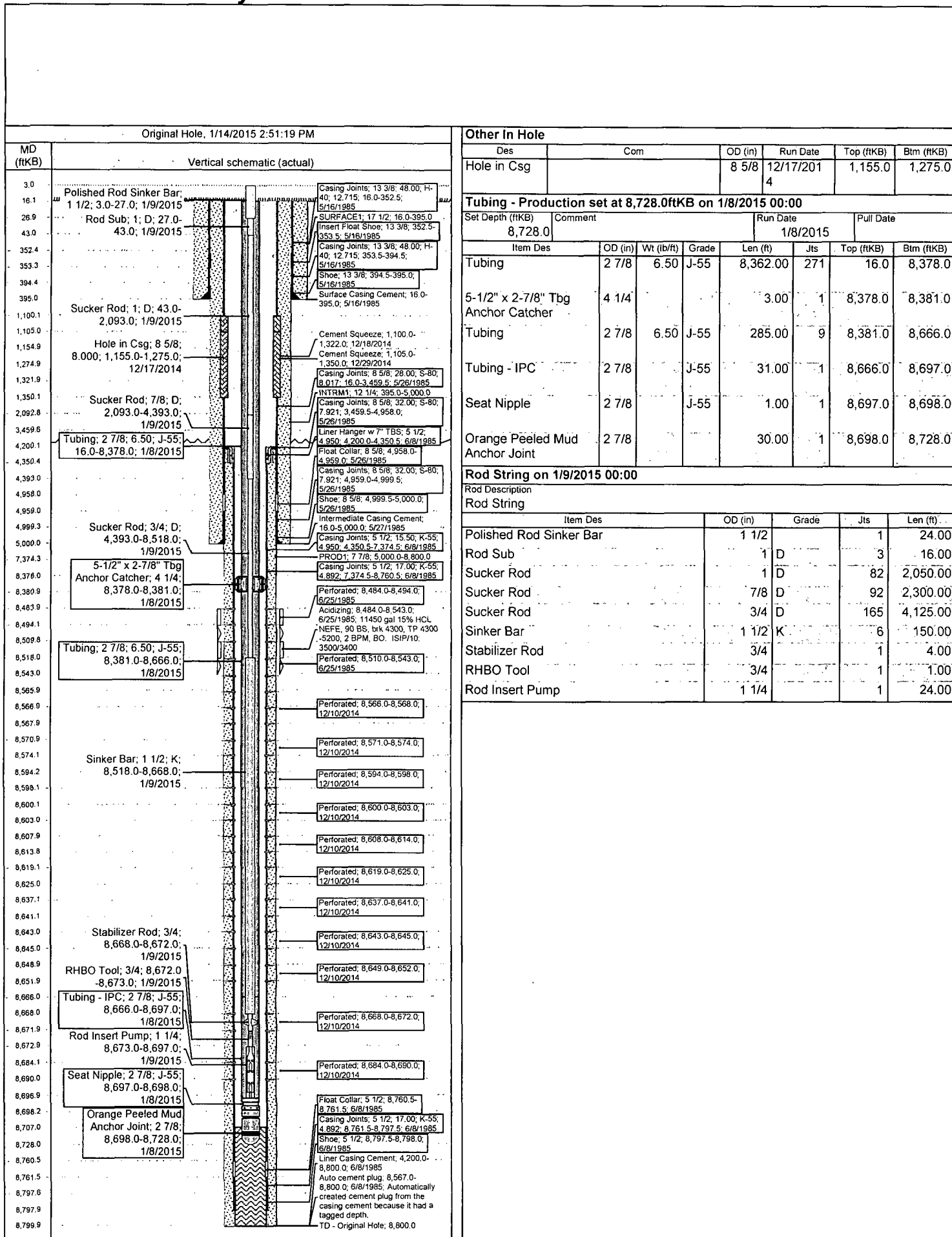


Cement Stages				
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment
Surface Casing Cement	16.0	395.0	Cement Returns	500 sx Class C + 2% CaCl ₂ , 1/4 pps FC, circ 140 sx, est 33% washout.
Intermediate Casing Cement	16.0	5,000.0	Cement Returns	Lead: 3150 sx Class C neat + 100 scf/bbl N ₂ ; Tail: 385 sx Class C + 2% CaCl ₂ , 100 scf/bbl N ₂ , plg dwn, pmp 100 sx Class C neat + 2% CaCl ₂ bt 8-5/8x13-3/8 annulus, displ 2 bbls FW, circ 330 sx, 98% washout est.
Liner Casing Cement	4,200.0	8,800.0	Bit Tag	680 sx Class H + 0.3% HA-9, 4% gel, 1/4 pps FC, 14.5 ppg, 1.39 cuft/sk.
Cement Squeeze	1,100.0	1,322.0	Bit Tag	Spot 75 sx Class C TLW (13.0 ppg, 1.38 cuft/sk), sweat in @ 400#, losing 60-80# in first hour, pressure up to 1000#, lost 20# the last hour, SWION w/ 1000#. Drilled out, gd cement, void @ 1,290-1,322'.
Cement Squeeze	1,105.0	1,350.0	Bit Tag	Spot 75 sx Class C TLW (13.0 ppg, 1.38 cuft/sk), sweat 1 bbl in @ 400#, lost no psi in 30". Pressure to 500#, lost no psi in 30". Bled off pressure slow, SWIOH & WE. Drilled out, gd cement all the way.

Perforations						
Top (ftKB)	Btm (ftKB)	Shot Dens (shot s/ft)	Date	Zone	Calculated Shot	Total
8,484.0	8,494.0	1.0	6/25/1985	Abo, Original Hole	11	
8,510.0	8,543.0	1.0	6/25/1985	Abo, Original Hole	34	
8,566.0	8,568.0	1.0	12/10/2014	Abo, Original Hole	3	
8,571.0	8,574.0	1.0	12/10/2014	Abo, Original Hole	4	
8,594.0	8,598.0	1.0	12/10/2014	Abo, Original Hole	5	
8,600.0	8,603.0	1.0	12/10/2014	Abo, Original Hole	4	
8,608.0	8,614.0	1.0	12/10/2014	Abo, Original Hole	7	
8,619.0	8,625.0	1.0	12/10/2014	Abo, Original Hole	7	
8,637.0	8,641.0	1.0	12/10/2014	Abo, Original Hole	5	
8,643.0	8,645.0	1.0	12/10/2014	Abo, Original Hole	3	
8,649.0	8,652.0	1.0	12/10/2014	Abo, Original Hole	4	
8,668.0	8,672.0	1.0	12/10/2014	Abo, Original Hole	5	
8,684.0	8,690.0	1.0	12/10/2014	Abo, Original Hole	7	

Stim/Treat Stages				
Type	Start Date	Top (ftKB)	Btm (ftKB)	Com
Acidizing	6/25/1985	8,484.0	8,543.0	11450 gal 15% HCL NEFE, 90 BS, brk 4300, TP 4300-5200, 2 BPM, BO, ISIP/10: 3500/3400

Schematic & History



TD - Original Hole; 8,800.0