

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

Form C-103
Revised July 18, 2013

HOBBS OGD

SEP 15 2016

RECEIVED

OIL CONSERVATION DIVISION

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

WELL API NO.
30-025-02322

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

312477

7. Lease Name or Unit Agreement Name

NM BO STATE

8. Well Number

5

9. OGRID Number

298299

10. Pool name or Wildcat

VACUUM; ABO REEF

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.)

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 G : 2310 feet from the N line and 1650 feet from the E line
Section 12 Township 18S Range 34E NMPM County LEA

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

3978 GL

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: ADD PERFS TO ABO REEF POOL ☒

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.

1. Pull well, perforate Abo Reef: 8,202-5', 8-31', 34-6', 39-51', 7-61', 3-6', 70-78', 81-91', 98-8,302', 6-8', 12-16', 18-23', 6-30', 4-42', 6-50'.

2. Isolate old perfs w/ RBP

3. Acidize new perfs w/ 5,550 gal 15% HCL NEFE

3. Swab load

4. POOH RBP, RTP.

See attached present & proposed schematics.

Spud Date: 03/26/1962

Rig Release Date: 05/21/1962

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

SIGNATURE _____ TITLE Regulatory Compliance DATE 09/14/2016

Type or print name Robbie A Grigg E-mail address: rgrigg@mspartners.com PHONE: 817-334-7842

For State Use Only

Petroleum Engineer

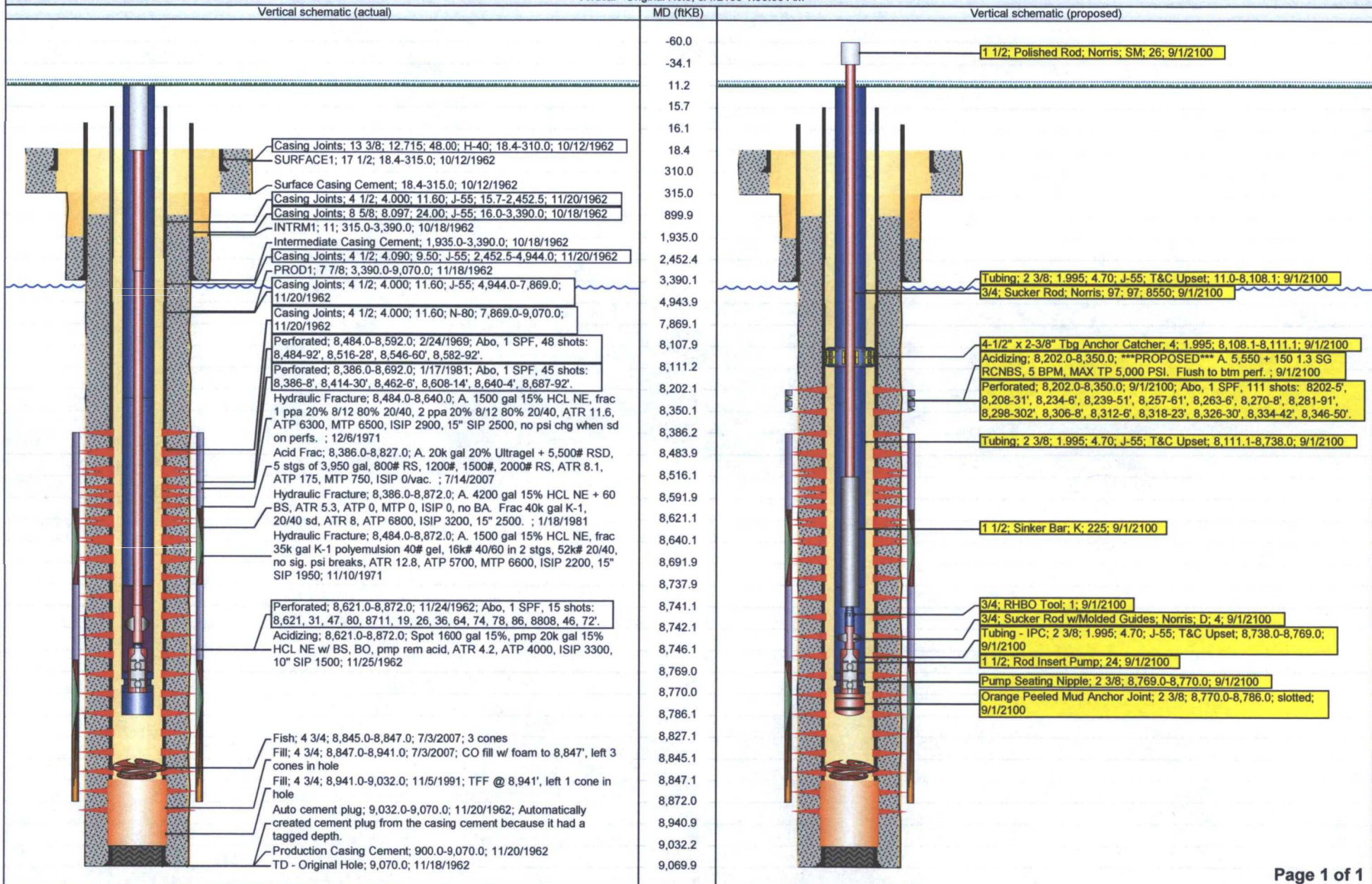
APPROVED BY: [Signature] TITLE _____ DATE 09/20/16

Conditions of Approval (if any):

CURRENT & PROPOSED WELL BORE SCHEMATICS

Jobs		Summary		Well Name NEW MEXICO BO STATE 5		API/UWI 3002502322	County Lea	State/Province New Mexico	Field Name VACUUM
Type		Summary		Location 2310 FNL & 1650 FEL	Township 18S	Range 34E	Section 12	Latitude (") 32° 45' 47.59" N	Longitude (") 103° 30' 38.575" W
Open Additional Pay - OAP				Original KB Elevation (ft) 3,989.00	Gr Elev (ft)	KB-Ground Distance (ft) 3,978.00		Spud Date 11.00	

Vertical - Original Hole, 9/1/2100 1:00:00 AM



Vertical - Original Hole, 8/5/2016 2:54:48 PM		Vertical schematic (actual)	
MD (ftKB)			
11.2			
15.7			
16.1			
18.4			
30.8			
41.0			
310.0			
315.0			
899.9			
1,935.0			
2,452.4			
3,016.1			
3,390.1			
4,943.9			
7,869.1			
8,265.1			
8,268.0			
8,386.2			
8,483.9			
8,591.9			
8,621.1			
8,640.1			
8,691.9			
8,737.9			
8,741.1			
8,745.1			
8,746.1			
8,769.0			
8,770.0			
8,786.1			
8,827.1			
8,845.1			
8,847.1			
8,872.0			
8,940.9			
9,032.2			
9,069.9			

Well Name		API/UWI		County		State/Province		Field Name	
NEW MEXICO BO STATE 5		3002502322		Lea		New Mexico		VACUUM	
Location		Township	Range	Section	Latitude (")		Longitude (")		
2310 FNL & 1650 FEL		18S	34E	12	32° 45' 47.59" N		103° 30' 38.575" W		
Original KB Elevation (ft)		Gr Elev (ft)		KB-Ground Distance (ft)		Spud Date			
3,989.00		3,978.00		11.00					
Jobs									
Type		Start Date		Summary					
Drilling Original & Initial Completion		10/11/1962		D&C Abo Reef producer, DST 7140-7425', log Welex Sonic/fracture log, Guard, FORXO, perf & A. Abo 20k gal 15% HCL NE, S. 40 BAW, SION, S. 40 BAW, F. 29 BAW & O, IP 290 BOPD/12.5', 0 BW, GOR 705, FTP 425#, API 39.0.					
Artificial Lift Upgrade		9/25/1967		Install hydraulic pmp					
Open Additional Pay - OAP		2/24/1969		Att. set BP, hung up in top of csg, perf Abo, set BP @ 8,600', well flwg, A. new perfs/4 stgs w/ 1500 gal 15% HCL NE per stg, straddle pkrs & BS, SION TP 600#, F. 15 bbls, S. 85 bbls, scdr fluid, lot of gas, SION TP 25#, S. 65 bbls, FL scdr, F. 10 bbls O.N., POOH BP, POP, pre-OAP prod. 67 BOPD, post-OAP 66 BOPD, 1 BWPD, GOR 3121, API 58.3.					
Frac Well		11/8/1971		A. all perfs 1500 gal 15% HCL NE, frac w/ K-1 polyemulsion 40# gel, 16k# 40/60 sd/2 stgs, 52k# 20/40 @ 4 ppa, run temp. svy, tbg stk, fish, bail sd to 8,953', att. POP, S., set BP @ 8,675', re-A. & frac 8,484'-8,647' w/ 1500 gal 15% HCL NE, 1 ppa sd 20% 8/12 80% 20/40 & 2 ppa 20% 8/12 80% 20/40, bail sd, POOH BP, bail sd, S. 99 BF, OC 35%, 1% sd, IFL 7,200', FFL 8,400', bail sd, well F., POP, pre-frac tst 52 BOPD 0 BWPD, post-frac IP 87 BOPD 2 BWPD (1016 BLOTR, 967 BLWTR).					
Open Additional Pay - OAP		1/12/1981		Log, re-perf & OAP ABO, A. all perfs 4200 gal 15% HCL NE, S. dry, no entry, frac all perfs, svy frac, S., tbg stk, work loose, bail sd, S., lots of gas, bail sd, S., POP.					
Inactivate		6/1/1983		Inactive well bore, no record of reason nor of pulling until 1991. No production reported.					
Re-Activate		11/5/1991		Left TAC spring in hole, TFF @ 8,917', CO w/ foam to 8,941', junk, left 1 cone, A. 1k gal 15% HCL, POP, pmp dragging, unseat, catch prfn sample, circ. chemical, RTP, 29 days later pmp failed for wear, corrosion, FeSO2 & scale, MA stuck in fill, mud jt 1/2 full of scale & iron sulfide, rplc 17 jts, RTP.					
Repair Downhole Failure		9/11/2000		Rplc rod & tbg strings, TFF @ 8,805', RIH swedge to 3,849', no tight spots.					
Acidize		7/3/2007		Scan tbg (139 YB, 87 BB, 40 GB, 10 RB), RIH bit, TFF @ 8,826', att. bail, hard, att. circ. w/ 600 BW, CO w/ foam to 8,847', lost all 3 cones, RIH pkr, hydrtst tbg, press. csg, held 500#, A. frac w/ 20k gal 15% HCL Ultragel, S. 10% OC, TFF @ 8,754', POP, 8 days later rplc entire rod strg w/ 76 taper N96 rods.					
Lift Optimization		9/16/2007		Install csg head gas comp.					

Casing Joints; 13 3/8; 48.00; H-40; 10/12/1962

Wellbore; SURFACE1; 17 1/2; 315.0

Surface Casing Cement; 18.4-315.0; 10/12/1962

Casing Joints; 4 1/2; 11.60; J-55; 11/20/1962

Casing Joints; 8 5/8; 24.00; J-55; 10/18/1962

Wellbore; INTRM1; 11; 3,390.0

Intermediate Casing Cement; 1,935.0-3,390.0; 10/18/1962

Casing Joints; 4 1/2; 9.50; J-55; 11/20/1962

Wellbore; PROD1; 7 7/8; 9,070.0

Casing Joints; 4 1/2; 11.60; J-55; 11/20/1962

Casing Joints; 4 1/2; 11.60; N-80; 11/20/1962

Perforated; 8,484.0-8,592.0; 2/24/1969; Abo, 1 SPF, 48 shots; 8,484-92', 8,516-28', 8,546-60', 8,582-92'

Perforated; 8,386.0-8,692.0; 1/17/1981; Abo, 1 SPF, 45 shots; 8,386-8', 8,414-30', 8,462-6', 8,608-14', 8,640-4', 8,687-92'

Perforated; 8,621.0-8,872.0; 11/24/1962; Abo, 1 SPF, 15 shots; 8,621, 31, 47, 80, 8711, 19, 26, 36, 64, 74, 78, 86, 8808, 46, 72'

Auto cement plug; 9,032.0-9,070.0; 11/20/1962; Automatically created cement plug from the casing cement because it had a tagged depth.

Wellbore; TD - Original Hole; 9,070.0

Production Casing Cement; 900.0-9,070.0; 11/20/1962

Tubing; 2 3/8; 4.70; J-55; 11.0-8,265.0; 8/23/2011

4-1/2" x 2-3/8" Tbg Anchor Catcher; 4; 8,265.0-8,268.0; 8/23/2011

Tubing; 2 3/8; 4.70; J-55; 8,268.0-8,738.0; 8/23/2011

Hydraulic Fracture; 12/6/1971; 8,484.0-8,640.0

Acid Frac; 7/14/2007; 8,386.0-8,827.0

Hydraulic Fracture; 1/18/1981; 8,386.0-8,872.0

Hydraulic Fracture; 11/10/1971; 8,484.0-8,872.0

Acidizing; 11/25/1962; 8,621.0-8,872.0

Tubing - IPC; 2 3/8; 4.70; J-55; 8,738.0-8,769.0; 8/23/2011

Pump Seating Nipple; 2 3/8; 8,769.0-8,770.0; 8/23/2011

OPMA; 2 3/8; 4.70; J-55; 8,770.0-8,786.0; 8/23/2011; slotted

Fish; 4 3/4; 8,845.0-8,847.0; 7/3/2007; 3 cones

Fill; 4 3/4; 8,847.0-8,941.0; 7/3/2007; CO fill w/ foam to 8,847', left 3 cones in hole

Fill; 4 3/4; 8,941.0-9,032.0; 11/5/1991; TFF @ 8,941', left 1 cone in hole

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