

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources

Form C-103
June 19, 2008

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

RECEIVED
OCT 18 2010
HOBBSD

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.)		WELL API NO. 3000520828 /
1. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Nordstrand Engineering Inc. /		6. State Oil & Gas Lease No. LG 2464
3. Address of Operator 3229 D'Amico Street, Suite 200, Houston TX 77019		7. Lease Name or Unit Agreement Name Loveless LQ State /
4. Well Location Unit Letter <u>D</u> : <u>990</u> feet from the <u>North</u> line and <u>990</u> feet from the <u>West</u> line Section <u>36</u> Township <u>7S</u> Range <u>31E</u> NMPM Chaves County /		8. Well Number #5 /
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL Elevation 4424		9. OGRID Number 230757 /
		10. Pool name or Wildcat Tomahawk San Andres

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 ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

1. Move in rig up and install BOP.
2. Run tubing into hole to 4170' and spot 25 sx class c cement. WOC and tag
3. Pull tubing. RIH with wireline and perf 4 1/2 casing at 2210', 1775', 1300', and 60'.
4. RIH with tubing and packer and squeeze perfs at 2210 with 25 sx class c cement. WOC and tag. Base of salt plug.
5. POH and set packer to squeeze perfs at 1775' with 25 sx class c cement. WOC and tag. Top of salt plug.
6. POH and set packer to squeeze perfs at 1300' with 25 sx class c cement. WOC and tag. 8 5/8 casing shoe plug.
7. Lay down remaining tubing. Rig up on 4 1/2 casing. Pump class c cement down 4 1/2 casing to perfs at 60' and up 4 1/2 by 8 5/8 annulus to surface.
8. Cut off wellhead, install marker, and cut off anchors.
9. Verbal approval as per Maxey Brown while unit on location.

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

SIGNATURE Carl H. Nordstrand TITLE President DATE 10-13-10
Type or print name Carl H. Nordstrand E-mail address: nordstrandengineering@comcast.net PHONE: 713-520-1555
For State Use Only

APPROVED BY: [Signature] TITLE Staff MGR DATE 10-20-10
Conditions of Approval (if any):

WELL NAME: Loveless "LQ" State #5 Field: Tomahawk San Andres

LOCATION: Unit D, Sec 36, 7S-31E 990 FNL & 990 FWL Chaves County

GL: 4230 GR ZERO: KB:

SPUD DATE: 10/12/81 COMPLETION DATE: 10/29/81

COMMENTS: 30-005-20828

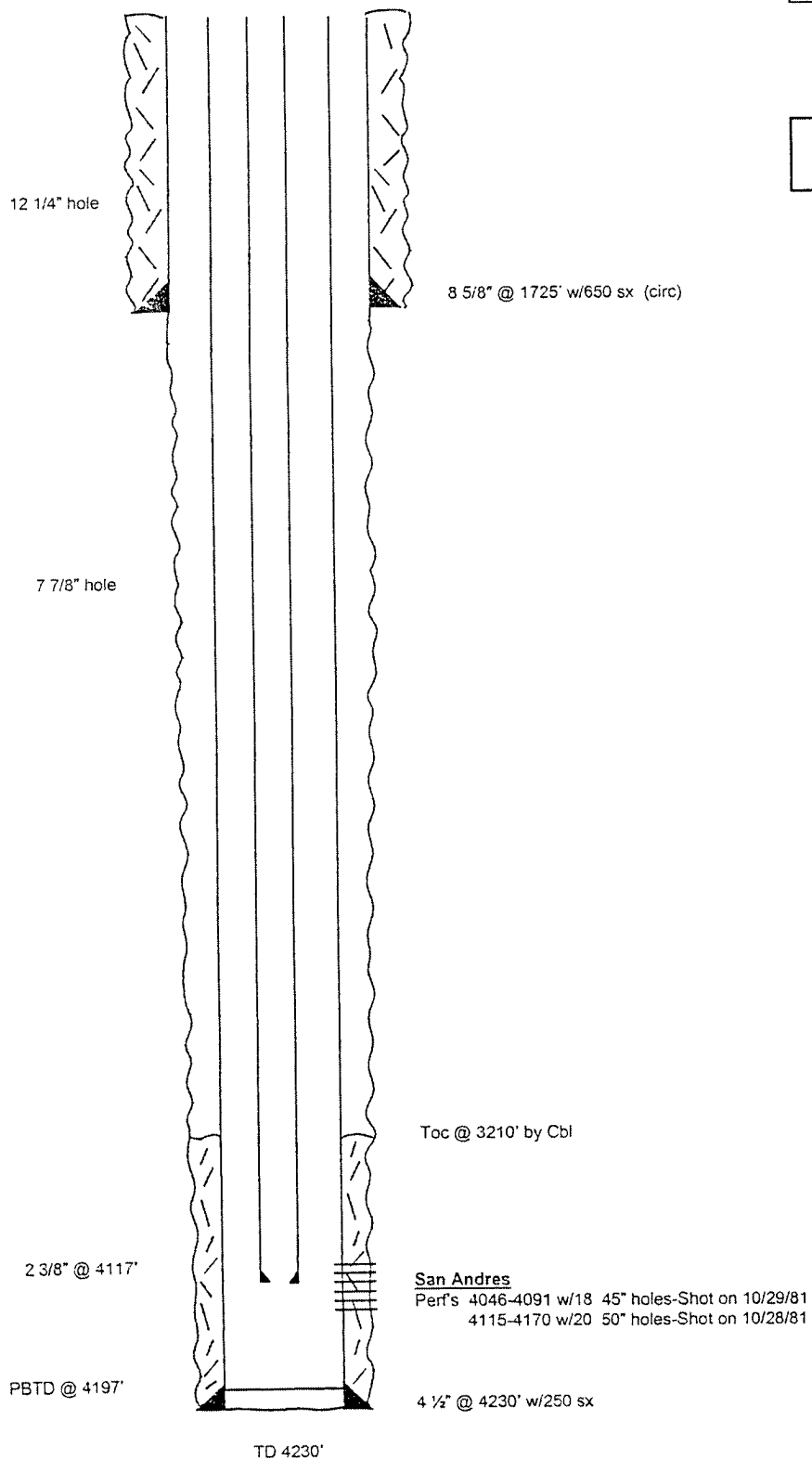
CASING PROGRAM

8 5/8" 23#	1725'
4 1/2" 9.5# k-55 ST&C	4230'

Before

TOPS

Queen	2614
Grayburg	2938
San Andres	3250
P1	3950
P2	4030
P3	4144



Not to Scale
8/14/03
Cam

WELL NAME: Loveless "LQ" State #5 **Field:** Tomahawk San Andres
LOCATION: Unit D, Sec 36, 7S-31E 990 FNL & 990 FWL Chaves County
GL: 4230 GR **ZERO:** **KB:** **SPUD DATE:** 10/12/81 **COMPLETION DATE:** 10/29/81
COMMENTS: 30-005-20828

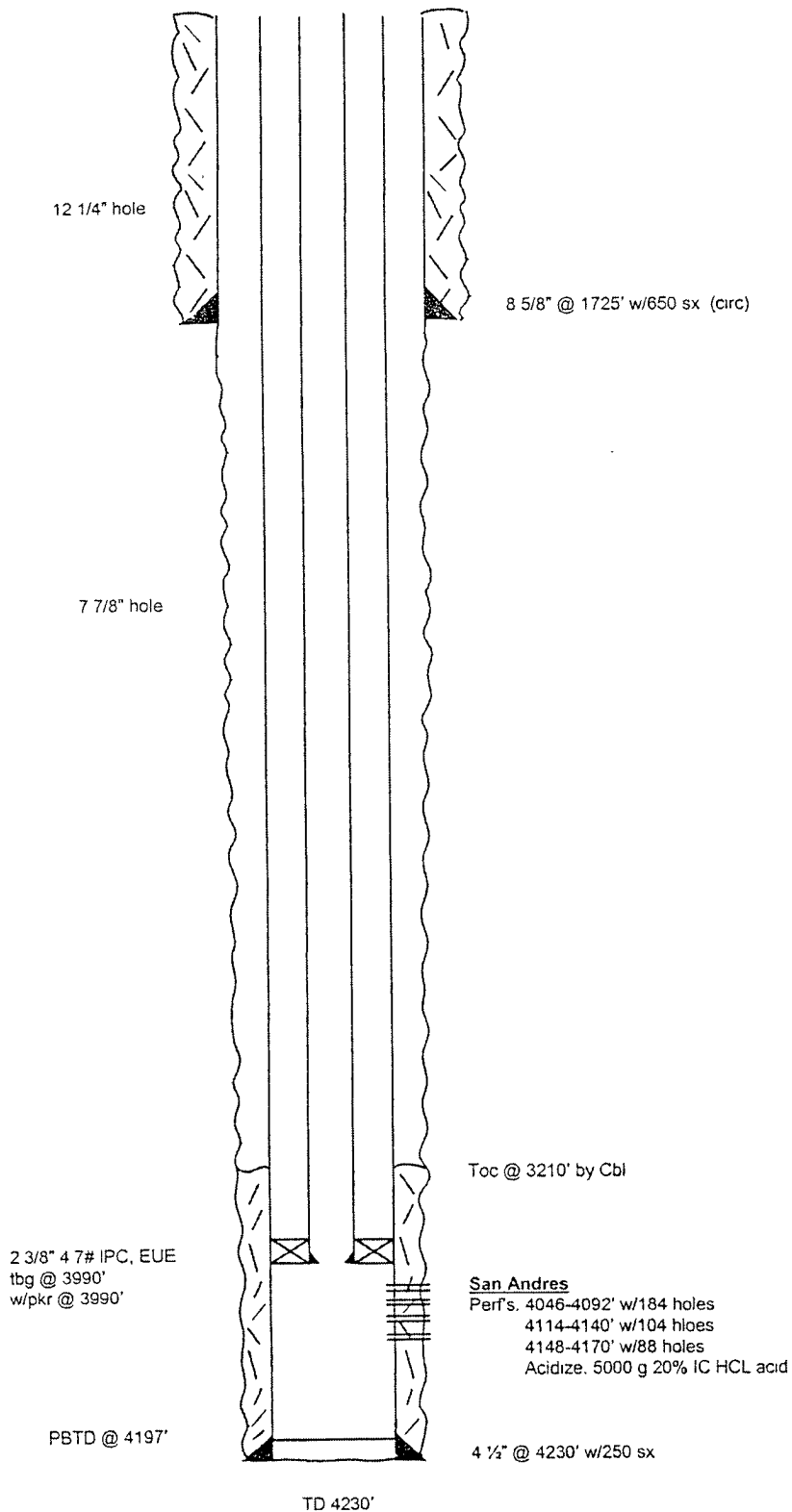
CASING PROGRAM

8 5/8" 23#	1725'
4 1/2" 9.5# k-55 ST&C	4230'

After

TOPS

Queen	2614
Grayburg	2938
San Andres	3250
P1	3950
P2	4030
P3	4144



Not to Scale
 8/14/03
 Cam

R=08

Yates Petroleum Corporation

Loveless "LQ" State #5
Tomahawk (San Andres) Field
990' FNL & 990' FWL
Sec. 36, T7S, R31E
Chaves County, New Mexico

X 1st
2-5-04

Convert the well from production to injection

TD: 4,230'
PBTD: 4,197'
KB Elevation: 4,430'
GL Elevation: 4,424'

Surface Casing: 8 5/8", 23.00 #/ft., J-55, ST&C set @ 1,725' cemented w/ 650 sacks, cement circulated to surface.

Production casing: 4 1/2", 9.50 #/ft., K-55, ST&C set @ 4,230' cemented w/ 250 sacks, TOC - 3,210', CBL

Perforated interval: **San Andres**
4,046' - 4,091', 18 - .45" holes, shot on 10/29/81
4,115' - 4,170', 20 - .50" holes, shot on 10/28/81

Tubing: 130+/- joints of 2 3/8", J-55, 4.70 #/ft., EUE set @ 4,117' w/ a SN

1.) MIRU a WSU & any safety equipment as needed. Load the tubing & the casing w/ 2% KCL water then ND the tubing head & NU the BOP then pull & lay down the rods & the pump then POOH w/ the tubing. MU a 3 7/8" bit & a 4 1/2" casing scraper on a the tubing & RIH w/ the bit & the scraper on the tubing to the PBTD of 4,197' +/- then circulate the hole clean w/ 2% KCL treated water then POOH w/ the tubing, the casing scraper & the bit.

2.) RU a wireline truck & a 3K-psig lubricator & RIH w/ 3 3/8" casing guns loaded w/ 4 JSPF w/ 90 degree phasing w/ the deepest penetrating charges & re-perforate the **San Andres dolomite - Tomahawk (San Andres) field** in the following intervals:

4,046' - 4,092' (184 holes)
4,114' - 4,140' (104 holes)
4,148' - 4,170' (88 holes)
376 holes total

RD the lubricator & the wireline truck

3.) RIH w/ a 5K-psig nickel plated, plastic coated, injection packer w/ 1.81" on/off tool on the tubing to 4,170' & spot 100 gals of 20% IC HCL acid w/ cationic surfactants & silt suspenders then move & set the packer @ 4,000' +/- then acidize the **San Andres** perms f/ 4,046' - 4,170' w/ 5,000 gals of 20% IC HCL acid w/ cationic surfactants & silt

suspenders @ a 5 – 7 BPM rate dropping 400 RCNB sealer during the acid job. After the acid has been flushed record the ISIP, 5 min SIP, 10 min SIP, & 15 min SIP. After the pressures have been recorded, run a 8 point step rate injection test @ the following rates, ¼ BPM for 15 mins, ½ BPM for 15 mins, ¾ BPM for 15 mins, 1.0 BPM for 15 mins, 1 ¼ BPM for 15 mins, 1 ½ BPM for 15 mins, 1 ¾ BPM for 15 mins, & 2.0 BPM for 15 mins. Record all of the rates & pressures on a chart so that the chart can be sent to the NMOCD. RD the acid pump truck.

4.) RU a slickline truck & set a 1.81" blanking plug in the on/off tool then release the tubing f/ the on/off then POOH & lay down the 2 3/8" tubing string then RIH w/ the on/off tool on a new string of 2 3/8", 4.70 #/ft, J-55, IPC, EUE tubing then RU a pump truck & circulate the hole w/ 90+/- BBLS of packer fluid w/ corrosion inhibitors then latch on to the on/off tool then ND the BOP & NU the wellhead. RU a slickline truck & RIH & pull the 1.81" blanking plug in the on/off tool then RU a pump truck & pressure up on the backside to 500 psig & run a 30 minute MIT test on the annulus & record the pressure test on a chart for the NMOCD. RD the pulling unit & turn the well over to production.

Operations Engineering Supervisor Ray date 4-5-04

Jim Pringle
January 30, 2004
e/eng/jimp/letters/lovelesslqstswd#5wo.doc

CC: Pinson, Dave, Ray, Randy, Dyke (2), Darrell, Ron, Art, Cherry, Michelle, Master File

Mr. Stall



Gamma-Ray Neutron Log

Engineered Oil and Gas Well Completions

FILING NO.

COMPANY YATES PETROLEUM CORPORATION
WELL LOVELESS "LQ" #5
FIELD UNDESIGNATED TOMAHAWK SAN ANDRES
COUNTY CHAVES STATE NEW MEXICO

LOCATION

990' **ENGINEERING**

OTHER SERVICES

CBL
(Dual Curve)

SEC 36 TWP 7-S RGE 31-E

PERMANENT DATUM GL ELEV 4423.5'
G MEASURED FROM GL 0 FT. ABOVE PERM DATUM
ILLING MEASURED FROM _____

ELEV. K B. 4423.5'
D F
G L 4423.5'

DATE	10-22-81
LOG NO	ONE
PE LOG	GAMMA RAY NEUTRON CALIB. W/COLLARS (IN CASING)
PTH-DRILLER	-
PTH-LOGGER	4197'
BTOM LOGGED INTERVAL	4196'
P LOGGED INTERVAL	1700'
PE FLUID IN HOLE	WATER
SALINITY, PPM CL	-
DENSITY	-
LEVEL	FULL
MAX REC TEMP DEG F	-
OPERATING RIG TIME	3 HOURS
RECORDED BY	H. MONTES
WITNESSED BY	MR. HANSEN

RUN NO	BORE-HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT	FROM	TO
				4 1/2"	9.5#	SURF.	POTD

FOLD HERE

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE
TOOL MODEL NO	REMO	LOG TYPE	GRN CALIB.
DIAMETER	1 11/16"	TOOL MODEL NO	REMO
DETECTOR MODEL NO	MG70	DIAETER	1 11/16"
TYPE	GEIGER	DETECTOR MODEL NO	H-3
LENGTH	18"	TYPE	PROP
DISTANCE TO N. SOURCE	-	LENGTH	6"
GENERAL		SOURCE MODEL NO.	GMT-NB-HP
		SERIAL NO	-
		SPACING	16"
HOIST TRUCK NO.			

