GL00740

10-21-83

R. W. DIRKS PETROLEUM ENGINEER, INC.
OIL FIELD DRILLING & PRODUCTION SUPERVISION
PHONE 512-375-2194 P. O. DRAWER 200
TULETA, TEXAS 78162-0200

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST./EST COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND AFB #1 Field WILDCAT County & State BEXAR, TEXAS

Depth 68' Footage Made -0- Days Since Spud -0- Form: Sd. Sh. Lime, Salt, Other

Present Operation: MAKING UP B.H.A Mud. Wt. 8.3 Viscosity 35 W.L. Cake

Chlo. YP PV P.H. HTHP Oil % Sd. % Solids %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No 1-A Size 12 1/2 Mfg. SECURITY Type S3SJ Jet Size 3-14's Ser. No 126HH4

In 68 Out Total Ftg. — Hr. Run — Cond. RE-TIP

Bit No Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press -0- Wt. on Bit 1000 lb. -0- Rotary RPM -0- No. of D.C. -0- O.D.

BHA Length -NO- Rot. hrs. on BHA -0- No. Stab. NO Days on Drlg. Jar NO Wear Bushing NO Days since Last BOP Test NO

Remarks

18 HRS. Rig up - 10 HRS. NIPPLED up CONDUCTOR PIPE, MADE 13 3/4 CSG. TO PIPE RACKS & MEASURED SAME. 1 HR BEAM MOUSE HOLE & DRILL RAT HOLE - 2 HRS. Picking up & making up B.H.A.

EXPENSE	DAILY COST
Rig	2063
Supervisor	450
Mud	414
Logging	
Mud Logger	
Rentals	2287
Hauling	
Casing	
Monitoring	
BHA	
Bit	
HAUL TRASH WATER TO SWD	400
Day Cost	5714
Prev. Cost	= 0
Total Cost	571

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 414 Prev. Mud -0- Total Mud Cost 414

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10-22-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST./E.S.L. COMPANY ENGINEER GENE TERREN

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEXAS
Depth 1024 Footage Made 964 Days Since Spud 1 Form. Sd. Sh. Lime, Salt, Other
Present Operation: DRILLING Mud. Wt. 9.0 Viscosity 30 W.L. 11.7 Cake 2/32
Chlo. 200 YP 3 PV 7 P.H. 9 HTHP — Oil -0- % Sd. TR % Solids 7 %
Vertical Test @ 482 off 3/4 °@ 982 off 1/4 °@ ___ off ___ °@ ___ off ___ °@ ___ off ___ °

Bit No. 1-A Size 17 1/2 Mfg. SEC Type S3SJ Jet Size 3-14's Ser. No. 126444
In 68 Out ___ Total Ftg. 964 Hr. Run 22 1/2 Cond. ___

Bit No. ___ Size ___ Mfg. ___ Type ___ Jet Size ___ Ser. No. ___
In ___ Out ___ Total Ftg. ___ Hr. Run ___ Cond. ___

Pump Press 1600 @ 2 Wt. on Bit 1000 lb. 20-32 Rotary RPM 140 No. of D.C. 22 O.D. 20-6" & 2-9"
BHA Length ___ Rot. hrs. on BHA 22 1/2 No. Stab. 2 Days on Drlg. Jar — Wear Bushing — Days since Last BOP Test —

Remarks

1/2 HR. RIG SER. - 3 1/2 HRS. DRILL - 1/2 HR. WORKING FLOWLINE - 4 1/2 HRS. DRILL - 1/2 HR. SURVEY - 14 1/2 HRS DRILL

EXPENSE	DAILY COST
Rig	14,547
Supervisor	450
Mud	688
Logging	
Mud Logger	
Rentals	232
Hauling	940
Casing	
Monitoring	
BHA	
Bit	
Day Cost	16,857
Prev. Cost	5,714

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 688 Prev. Mud 414 Total Mud Cost 1102 Total Cost 22,471

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TULETA, TEXAS 78162-0200

10-23-83

MORNING REPORT

COMPANY University of Utah Research Inst / E.S.L. COMPANY ENGINEER Gene Terrell

Well No. Lackland A.F.B. #1 Field Wildcat County & State Bexar, Texas
Depth 1438 Footage Made 394 Days Since Spud 2 Form: Sd. Sh. Lime, Salt, Other Sh & Lime
Present Operation: Drilling Mud. Wt. 9.3 Viscosity 31 W.L. 8.0 Cake 3/32
Chlo. 150 YP 2 PV 8 P.H. 9.5 HTHP — Oil — % Sd. Tr. % Solids 7 %
Vertical Test @ 1271 off 1/2° °@ off °@ off °@ off °@ off °

Bit No. 1-A Size 17 1/2 Mfg. SEC. Type S 33J Jet Size 3-14's Ser. No. 126444
In 68 Out 1271 Total Ftg. 1303 Hr. Run 27 1/2 Cond. 7-5-B-6-I
2-8-2-I
Bit No. 2-A Size 17 1/2 Mfg. SEC Type S33J Jet Size 3-14's Ser. No. 122242
In 1303 Out Total Ftg. 67 Hr. Run 5 Cond.

Pump Press 1700 Wt. on Bit 1000 lb. 20-30 Rotary RPM 140 No. of D.C. 22 O.D. 20-6" — 2-9"
BHA Length 728' Rot. hrs. on BHA 43 No. Stab. 2 Days on Drlg. Jar — Wear Bushing — Days since Last BOP Test —

Remarks

1/2 HR. RIG SER. — 15 1/2 HRS. DRILLING — 1/2 HR. SLUG & SURVEY — 2 1/2 HRS. TRIP FOR BIT # 2-A — 5 HRS DRILLING

EXPENSE	DAILY COST
Rig	5946
Supervisor	4 DAYS 1800
Mud	2142
Logging	~~770~~
Mud Logger	2 DAS. 770
Rentals	212
Hauling	550
Casing	Conductor ~~Casing~~ 2650
Monitoring	
BHA	
Bit	
Wellhead 13 3/8 csg	811
Loc. Cost	1100
Day Cost	16,401
Prev. Cost	22,471
Total Cost	38,872

Mud Logger	Back G 12	Conn. G NO	Trip G 42	Max G 42	ROP 8/10

Daily Mud 2142 Prev. Mud 1102 Total Mud Cost 3244

BEEVILLE PUB. CO.-BEEVILLE

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MORNING REPORT

10-24-83

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / ESL COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEXAS

Depth 1736 Footage Made 298 Days Since Spud 3 Form: Sd. Sh. Lime, Salt, Other LIMESTONE

Present Operation: DRILLING Mud. Wt. 9.1 Viscosity 32 W.L. 9.6 Cake 2/32

Chlo. 200 YP 2 PV 7 P.H. 9.5 HTHP -0- Oil -0- % Sd. TR. % Solids 6 %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. 2-A Size 12 1/2 Mfg. SEC Type S35J Jet Size 3-14S Ser. No. 1292242

In 1203 Out Total Ftg. 433' Hr. Run 28 1/2 Cond.

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press 1750 Wt. on Bit 1000 lb. 20-25 Rotary RPM 140 No. of D.C. 22 O.D. 20-6" - 2-9"

BHA Length 724 Rot. hrs. on BHA 70 1/2 No. Stab. 2 Days on Drlg. Jar — Wear Bushing — Days since Last BOP Test —

Remarks

1/2 HR. RIG SER. - 23 1/2 HRS. DRILLING

EXPENSE	DAILY COST
Rig	4497
Supervisor	450
Mud	1654
Logging	
Mud Logger	495
Rentals	128 22 20 — 212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
HAUL OFF MUD & RESERVE WASTE	4122
Day Cost	11,440
Prev. Cost	38,872
Total Cost	50,312

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP
	12	-	0	12	8

Daily Mud 1654 Prev. Mud 3244 Total Mud Cost 4498

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10-25-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST./E.S.L. COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEXAS
Depth 1960 Footage Made 224 Days Since Spud 4 Form: Sd. Sh. Lime, Salt, Other
Present Operation: DRILLING Mud. Wt. 9.2 Viscosity 34 W.L. 8.8 Cake 2/32
Chlo. 150 YP 4 PV 11 P.H. 10 HTHP -0- Oil -0- % Sd. TR % Solids 7 %
Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. 2-A Size 17½ Mfg. SEC. Type S33SJ Jet Size 3-14'S Ser. No. 122242
In 1303 Out 1745 Total Ftg. 374 Hr. Run 29 Cond. 8-8

Bit No. 3-A Size 17½ Mfg. H-TC. Type OSC-3J Jet Size 3-14'S Ser. No. F58853
In 1745 Out Total Ftg. 215 Hr. Run 19 Cond. —

Pump Press 1800 Wt. on Bit 1000 lb. 30-40 Rotary RPM 140 No. of D.C. 22 O.D. 20-6" & 9"
BHA Length 778 Rot. hrs. on BHA 90 No. Stab. 2 Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

½ HR. RIG SER. - ½ HR. DRILL - ½ HR. SLOW SURVEY - 2 HRS. TRIPING FOR BIT # 3-A - ½ HR. REAM FROM 1700 TO 1745 - 19 HRS. DRILLING -

EXPENSE	DAILY COST
Rig	3350
Supervisor	450
Mud	1703
Logging	~~495~~
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
HAUL OFF RESERVE	1740
Day Cost	9980
Prev. Cost	60,812 ~~[illegible]~~
Total Cost	58292

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 1703 Prev. Mud 4494 Total Mud Cost 6601

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MORNING REPORT

10-26-83

COMPANY _____ COMPANY ENGINEER GENE FERRELL

Well No. _____ Field _____ County & State _____

Depth 2046 Footage Made 86 Days Since Spud _____ Form: Sd. Sh. Lime, Salt, Other _____

Present Operation: Circ & cond mud Mud. Wt. 9.1 Viscosity 34 W.L. 8.4 Cake 2/32

Chlo. 150 YP 5 PV 10 P.H. 10 HTHP -0- Oil -0- % Sd. TR. % Solids 6 %

Vertical Test @ 2046 off 1° °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out 1978 Total Ftg. 233 Hr. Run 20 Cond. 8-8-I

Bit No. _____ Size _____ Mfg. SMITH Type OSJ Jet Size 3-14S Ser. No. AA7579

In 1978 Out 2046 Total Ftg. 68 Hr. Run 4½ Cond. 1-1

Pump Press _____ Wt. on Bit 1000 lb. _____ Rotary RPM _____ No. of D.C. _____ O.D. _____

BHA Length _____ Rot. hrs. on BHA 95½ No. Stab. _____ Days on Drlg. Jar _____ Wear Bushing _____ Days since Last BOP Test _____

Remarks

½ HR. RIG SER. - 4 HRS. DRILL - 3 HRS. SLUG & TRIP FOR BIT # 4A - 4½ HRS. DRILLING - ½ HR. SHORT TRIP - 1½ HRS. CIRC & COND MUD - ½ HR. SLUG & SURVEY - 1½ HRS. P.O.H. & LAYED DOWN 2-17½" STABILIZERS - 1½ HRS. RIGGED UP DRESSER ATLAS & TRIP IN HOLE W/ LOGGING TOOL & TAGGED UP @ 2043 - 3½ HRS. LOGGING - 3 HRS. WIRELINE CORING - 2½ HRS. RIG DOWN DRESSER, & TRIP IN HOLE ½ HR. CIRC & COND MUD

EXPENSE	DAILY COST
Rig	2986
Supervisor	450
Mud	995
Logging	7444
Mud Logger	495
Rentals	20 22 110 212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
HAUL OFF RESERVE	2045
WELDING COMPUTER	286
Day Cost	15,913
Prev. Cost	58,292
Total Cost	74,205

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP
	8	—	—	8	7

Daily Mud 995 Prev. Mud ~~7596~~ 6601 Total Mud Cost 7596

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MORNING REPORT

10-27-83

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / ESI COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND AFB. #1 Field WILDCAT County & State BEXAR, TEX

Depth 2046 Footage Made — Days Since Spud 6 Form: Sd. Sh. Lime, Salt, Other

Present Operation: W.O.C. Mud. Wt. 9.1 Viscosity 34 W.L. 6.4 Cake 2/32

Chlo. 160 YP 5 PV 10 P.H. 10 HTHP -0- Oil -0- % Sd. TR. % Solids 6 %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. A-A Size 17 1/2 Mfg. SMITH Type OSJ Jet Size 7-14's Ser. No. A99579

In 1978 Out 2046 Total Ftg. 68 Hr. Run 4 1/2 Cond. C-1

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press 1800 Wt. on Bit 1000 lb. -0- Rotary RPM -0- No. of D.C. 22 O.D. 20-6" - 2-9"

BHA Length 728 Rot. hrs. on BHA 95 1/2 No. Stab. 2 Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks 1 HR. CIRC — 1 1/2 HRS. P.O.H. TO RUN 13 3/8 CSG — 1 HR.

Rig up Csg. CREW — 3 1/2 HRS WAIT ON ELEVATOR 8 HRS. RAN 51 JTS. 13 3/8 Csg. — 1/2 HR. Rig up HALLIBURTON 1/2 HR. CIRC. COND. MUD — 3 1/2 HRS. CEMENT Csg. w/ 960 SXS. 85-15 POZ MIX, 8% GEL, 3% GEL MIXED @ 12.7, + 410 SXS. COMMON MIXED @ 15.6 PPG. — 4 1/2 HRS. W.O.C.

Csg SET @ 2043'

EXPENSE	DAILY COST
Rig	1213
Supervisor	450
Mud	-0-
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
CMT.	10,018
Run Csg.	2845
Days Float Equip	1944
Day Cost	17,277
Prev. Cost	74,205
Total Cost	91,482

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud -0- Prev. Mud 7596 Total Mud Cost 7596

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10-28-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / E.S.L. COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEXAS

Depth 2046 Footage Made -0- Days Since Spud 7 Form: Sd. Sh. Lime, Salt, Other

Present Operation: NIPPLING UP Mud. Wt. Viscosity W.L Cake

Chlo. YP PV P.H. HTHP Oil % Sd. % Solids %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No Size Mfg. Type Jet Size Ser. No

In Out Total Ftg. Hr. Run Cond.

Bit No Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press Wt. on Bit 1000 lb. Rotary RPM No. of D.C. O.D.

BHA Length Rot. hrs. on BHA No. Stab. Days on Drlg. Jar Wear Bushing Days since Last BOP Test

Remarks

	EXPENSE	DAILY COST
12600	Rig	
2 HRS W.O.C — 10 HRS. CUT OFF 20" CONDUCTOR + 13 3/8"	Supervisor	450
SURFACE CSG. - WELD ON & TEST WELL HEAD TO 800	Mud	
PSI O.K. - 12 HRS N. PPLING UP 13 5/8" BOP	Logging	
STACK 75.00	Mud Logger	495
9 HRS 351 00	Rentals	212
652 50 84 00	Hauling	
	Casing	
435 00	Monitoring	
	BHA	
	Bit	
	HAUL OFF RESERVE	1958
	WELL HEAD	1653
	N. PPLE UP & TEST WELLHEAD	250
	CUT OFF 13 3/8 & 20" CSG WELD ON HEAD	420
	Day Cost	5438
	Prev. Cost	91,482
	Total Cost	96,920

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud -0- Prev. Mud 7596 Total Mud Cost 7596

BEEVILLE PUB. CO. BEEVILLE

10-29-83

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MORNING REPORT

COMPANY University of Utah Research Inst / E.S.A. COMPANY ENGINEER Gene Tiemann

Well No. Lackland A.F.B. #1 Field Wildcat County & State Bexar Tex

Depth 2379 Footage Made 333 Days Since Spud 8 Form: Sd. Sh. Lime, Salt, Other

Present Operation: Drilling Mud. Wt. 9.1 Viscosity 32 W.L. 10.4 Cake 2/32

Chlo. 150 YP 1 PV 7 P.H. 10 HTHP -0- Oil -0- % Sd. Tr % Solids 6 %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. 1-B Size 12 1/4 Mfg. Sec. Type S33S Jet Size 3-11's Ser. No. 110075

In 2046 Out Total Ftg. 333' Hr. Run 17 1/2 Cond.

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press 2000 Wt. on Bit 1000 lb. 30-35 Rotary RPM 140 No. of D.C. 22 O.D. 20-6" + 2-9"

BHA Length 778 Rot. hrs. on BHA 114 No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

4 HRS. Finish Nipple up & test BOPs w/ 2000 PSI (ok) - 1 HR. Trip in hole - tag plug @ 1998' - ~~1 HR~~ 1 HR. Drlg. plug, cont 9 5' of new hole - 1/2 HR. Test csg seat to equivalent of 10.0 ppg ok - 17 1/2 HRS. Drilling

EXPENSE	DAILY COST
Rig	5025
Supervisor	450
Mud	1748
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA STABS 12 1/4	605
Bit	
~~Stabilizers~~	~~605~~
Day Cost	8535
Prev. Cost	96,920
Total Cost	105,455

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP
	4	-0-	-0-	40	18

Daily Mud 1748 Prev. Mud 7596 Total Mud Cost 9346

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10-30-83

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MORNING REPORT

COMPANY University of Utah Research Inst./ESL COMPANY ENGINEER Lackland A.F.B. #1 Eng. Terrell

Well No. Lackland A.F.B. #1 Field Wildcat County & State Bexar, Texas

Depth 2742 Footage Made 363 Days Since Spud 9 Form: Sd. Sh. Lime, Salt, Other

Present Operation: Drilling Mud. Wt. 9.5 Viscosity 36 W.L. 9.6 Cake 2/32

Chlo. 150 YP 2 PV 13 P.H. 12 HTHP -0- Oil -0- Sd. % Solids 13 %

Vertical Test @ 2457 off 1° °@ off °@ off off off °

Bit No. 1-B Size 12¼ Mfg. SEC Type S33S Jet Size 3-14's Ser. No. 110075

In 2046 Out 2457 Total Ftg. 411 Hr. Run 23 Cond.

Bit No. 2-B Size 12¼ Mfg. SEC Type S33S Jet Size 3-14's Ser. No. 250735

In 2457 Out Total Ftg. 285 Hr. Run 12½ Cond.

Pump Press 1900 Wt. on Bit 1000 lb. 30-35 Rotary RPM 140 No. of D.C. 20 O.D. 20-6" - 2-9"

BHA Length 778' Rot. hrs. on BHA 131 No. Stab. 12 Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks 10-29-83

10-30-83

EXPENSE	DAILY COST
Rig	5478
Supervisor	450
Mud	1551
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
Core Anal.	455
Haul off Reserve	1205
Day Cost	9946
Prev. Cost	105,455
Total Cost	115,401

½ HR. RIGSER. - 5½ HRS DRILLING - ½ HR. SLIP & SURVEY - 4 HRS. TRIPPING FOR BIT 2-B - ~~2 HRS~~ Pick up TWO STABALIZERS - 2 HRS REAM STABALIZERS BACK TO BOTTOM 11½ HRS DRILLING

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP
	3	-0-	6	6	12'

Daily Mud 1551 Prev. Mud 9246 Total Mud Cost 10,897

BEEVILLE PUB. CO. BEEVILLE

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MORNING REPORT

10-31-83

COMPANY UNIVERSITY OF UTAH, RESEARCH INST. / E.S.L. COMPANY ENGINEER GENE TERREH

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEX

Depth 2825 Footage Made 241 Days Since Spud 10 Form: Sd. Sh. Lime Salt, Other

Present Operation: DRILLING Mud. Wt. 9.6 Viscosity 35 W.L. 9.8 Cake 2/32

Chlo. 150 YP 6 PV 14 P.H. 10 HTHP -0- Oil -0- % Sd. TR. % Solids 13 %

Vertical Test @ off °@ off °@ off °@ off °@ off °@ off °

Bit No. 2-B. Size 12¼ Mfg. SEC Type S-33-S Jet Size 3-14S Ser. No. 257735

In 2457 Out 2825 Total Ftg. 368 Hr. Run 21 Cond. 8-8

Bit No. 3-B. Size 12¼ Mfg. SMITH Type FDT Jet Size 3-12S Ser. No. FB9937

In 2825 Out Total Ftg. 158 Hr. Run 10½ Cond.

Pump Press 2000 Wt. on Bit 1000 lb. 30-35 Rotary RPM 140 No. of D.C. 22 O.D. 20-6' - 2-9"

BHA Length 778 Rot. hrs. on BHA 151 No. Stab. 2 Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

½ HR. RIG SER - 8½ HRS. DRILLING - 3½ HRS TRIP FOR BIT #3-B - 11½ HRS DRILLING

EXPENSE	DAILY COST
Rig	3637 ~~45~~
Supervisor	450
Mud	778
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
HAUL OFF / RESERVE	870
Day Cost	6442
Prev. Cost	115,401
Total Cost	121,843

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP
	3	-0-	-0-	4	12'

Daily Mud [illegible] Prev. Mud 10,997 Total Mud Cost 11,774

BEEVILLE PUB. CO.-BEEVILLE

R. W. DIRKS PETROLEUM ENGINEER, INC.
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11-1-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST./ESL COMPANY ENGINEER GENE TERREL

Well No. LAUKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEXAS
Depth 3273 Footage Made 290 Days Since Spud 11 Form: Sd. Sh. Lime, Salt, Other ANAHUACITE
Present Operation: DRILLING Mud. Wt. 9.6 Viscosity 39 W.L. 9.8 Cake 2/32
Chlo. 150 YP 10 PV 17 P.H. 9.5 HTHP -0- Oil -0- % Sd. TR. % Solids 11 %
Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. 3-B	Size 12¼	Mfg. SMITH	Type FDT	Jet Size 3-12's	Ser. No. EB9937	
In 2825	Out	Total Ftg. 448	Hr. Run 34	Cond.		
Bit No.	Size	Mfg.	Type	Jet Size	Ser. No.	
In	Out	Total Ftg.	Hr. Run	Cond.		

Pump Press 2000	Wt. on Bit 1000 lb. 35	Rotary RPM 100-140	No. of D.C. 22	O.D. 20-6" = 2-9"	
BHA Length 778	Rot. hrs. on BHA 174.5	No. Stab. 2	Days on Drlg. Jar -0-	Wear Bushing -0-	Days since Last BOP Test

Remarks

½ HR. RIG SER. — 23½ HRS DRILLING

EXPENSE	DAILY COST
Rig	4376
Supervisor	450
Mud	1042
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
Unknown Exp.	360
Day Cost	6935
Prev. Cost	121,843
Total Cost	128,778

Mud Logger	Back G 4	Conn. G -0-	Trip G 000	Max G 4	ROP 10

Daily Mud 1042 Prev. Mud 11,774 Total Mud Cost 12,816

BEEVILLE PUB. CO.-BEEVILLE

11-3-83

R. W. DIRKS PETROLEUM ENGINEER, INC.
OIL FIELD DRILLING & PRODUCTION SUPERVISION
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TULETA, TEXAS 78162-0200

MORNING REPORT

COMPANY University of Texas Research Inst./E.S.L. COMPANY ENGINEER Gene Terrell

Well No. Lackland A.F.B. #1 Field Wildcat County & State Bexar, Tex

Depth 3964 Footage Made 87 Days Since Spud 13 Form Sd/Sh/Lime, Salt, Other

Present Operation: Running 9 5/8 Liner Mud. Wt. 9.4 Viscosity 37 W.L. 14.4 Cake 2/32

Chlo. 150 YP 3 PV 8 P.H. 9 HTHP -0- Oil -0- % Sd. TR % Solids 8 %

Vertical Test @ 3964 off 3/4° °@ off °@ off °@ off °@ off °

Bit No 4-B Size 12 1/4 Mfg. Smith Type FDT Jet Size 3-18's Ser. No. EM0657

In 3445 Out 3964 Total Ftg. 317 Hr. Run 13 1/2 Cond. 6 6

Bit No Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press 2000 Wt. on Bit 1000 lb. 35 Rotary RPM 100 No. of D.C. 22 O.D. 20-6" - 2-9"

BHA Length 728 Rot. hrs. on BHA 196 1/2 No. Stab. 2 Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

	EXPENSE	DAILY COST
	Rig	3437
3 HRS DRILL - 1 HR. CIRC BOTTOMS UP - 1/2 HR. SHORT TRIP	Supervisor	450
1 1/2 HRS CIRC BOTTOMS UP - 1/2 HR. Slug & SURVEY - 1 1/2 HR.	Mud	1331
P.O.H TO LOG - 6 1/2 HRS Logging w/ DRESSER ATLAS -	Logging	10,551
2 HRS. TRIP IN HOLE, LAYED DOWN 25 JTS.	Mud Logger	445
- 1 1/2 HRS. CIRC & COND. MUD - 3 HRS. P.O.H, LAYED	Rentals	212
DOWN 2 - 9" DCS - 3 HRS - Rig up TO RUN & Running 9 5/8"	Hauling	
LINER -	Casing	
	Monitoring	
	BHA	
ON DAY RATE @ 3:30 PM 11-2-83	Bit	
	Rental on 2-X-over SUBS	92
Call - Rented		
VAC Trucks		
	Day Cost	16,053

Mud Logger	Back G 4	Conn. G -0-	Trip G -0-	Max G 4	ROP 15	Prev. Cost	138,780

Daily Mud 834 Prev. Mud 13,154 Total Mud Cost 13988 Total Cost 154,833

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11-2-83

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MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST./E.S.L. COMPANY ENGINEER GENE TERBELL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR TEXAS

Depth 2707 Footage Made 434 Days Since Spud 12 Form: Sd. Sh. Lime Salt, Other

Present Operation: DRILLING Mud Wt. 9.4 Viscosity 34 W.L. 9.2 Cake 2/32

Chlo. 150 YP 9 PV 7 P.H. 8.5 HTHP -0- Oil -0- % Sd. TR. % Solids 8 %

Vertical Test @ 3445 off 1° °@ off °@ off °@ off °@ off °

Bit No. 3-B Size 12 1/4 Mfg. SMITH Type F.D.T Jet Size 3-12's Ser. No. EB9937

In 2825 Out 3445 Total Ftg. 590 Hr. Run 42 1/2 Cond. 6-6

Bit No. 4-B Size 12 1/4 Mfg. Smith Type FDT Jet Size 3-10's Ser. No. E00657

In 3445 Out Total Ftg. 260 Hr. Run 10 1/2 Cond.

Pump Press 2000 Wt. on Bit 1000 lb. 30-35 Rotary RPM 140 No. of D.C. 22 O.D. 20-6" = 2-9"

BHA Length 778 Rot. hrs. on BHA 192 1/2 No. Stab. 2 Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

1/2 HR. RIG SER. — 8 1/2 HRS. DRILL — 1/2 HR. SLIP & SURVEY
4 HRS TRIP FOR BIT #4 — 10 1/2 HRS. DRILLING

EXPENSE	DAILY COST
Rig	6549
Supervisor	450
Mud	338
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
HAUL OFF RESERVE	1958
Day Cost	10,002
Prev. Cost	128,778
Total Cost	138,780

Mud Logger	Back G 4	Conn. G -0-	Trip G -0-	Max G 4	ROP 22

Daily Mud 338 Prev. Mud 12,816 Total Mud Cost 13154

BEEVILLE PUB. CO.-BEEVILLE

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11-4-83

MORNING REPORT

COMPANY University of Utah Research Inst Fed COMPANY ENGINEER Gene Terrell

Well No. Lackland A.F.B. #1 Field Wildcat County & State Bexar Tex 43

Depth 2704 Footage Made -0- Days Since Spud 14 Form: Sd. Sh. Lime, Salt, Other

Present Operation: W.O.C. Mud. Wt. 9.6 Viscosity 36 W.L. 11.4 Cake 2/32

Chlo. 15 YP 3 PV 8 P.H. 9 HTHP 0 Oil -0- % Sd. Tr. % Solids 8 %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. 4-B Size 12¼ Mfg. Smith Type FDT-RR Jet Size 3-10's Ser. No. ED0652

In Out 2 Total Ftg. 00 Hr. Run -0- Cond.

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press -0- Wt. on Bit 1000 lb. -0- Rotary RPM -0- No. of D.C. 20 O.D. 6"

BHA Length Rot. hrs. on BHA 46½ No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

1 HR. Finished Running 9 5/8 Liner - 1 HR. Rig Down Csg Crew & Rig up Halli - ½ HR. Made up Liner Hanger - 2 HRS. Trip in Hole w/ 89 stds + 1 Single & tag Bottom - 1 HR. Circ. Bottoms up - ½ HRS Set Hanger @ 1827 - 2½ HRS Cmt. Liner w/ 870 sx Class "H" 4% Gel Liner size a 3757 - ½ HR. P.O.H 105 stds - ½ HR. Release out - 1½ HR. POH w/ Set Tool - Laid Down Same - 1 HR. Strap in Hole w/ B.H.A. + 6 stds D.P. - 12 HRS W.O.C.

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	-0-
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
8¾" Stabs.	990
Cmt. Liner	6865
Haul off Reserve	1087
Liner Hanger	8242
Running Liner	1599
9 5/8 Liner	13,947
Day Cost	38,387
Prev. Cost	154,833
Total Cost	193,220

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud Prev. Mud Total Mud Cost

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11-5-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST/EST. COMPANY ENGINEER GENE TERRAL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR

Depth 3706 Footage Made 0-0 Days Since Spud 15 Form: Sd. Sh. Lime, Salt, Other

Present Operation: CLEANING OUT MUD TANKS Mud. Wt. 9.4 Viscosity 39 W.L. Cake

Chlo. YP PV P.H. HTHP Oil % Sd. % Solids %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. 1-C Size 8 3/4 Mfg. SMITH Type F.O.T. Jet Size 3-10's Ser. No. EB 9678

In ~~3706~~ 1401 Out Total Ftg. 439 ~~0~~ of CMT Hr. Run -0- 4 HRS Cond. NEW

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press. 1600 Wt. on Bit 1000 lb. 10-20 Rotary RPM 140 No. of D.C. 20 O.D. 6"

BHA Length 722.21 Rot. hrs. on BHA 200 1/2 No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

2 HRS. W.O.C - 1/2 HR. - TRIP IN HOLE TAG CMT @ 1401 - 1 HR. CIRC & W.O.C - 2 HRS. DRILL CMT. DOWN TO 1756' - 3 HRS. CIRC & W.O.C - 1 HR. DRILL CMT. DOWN TO 1835' & TAGGED TOP OF LINER - 1 1/2 HRS. CIRC. & COND MUD. - 1/2 HR. - TEST TOP OF LINER TO EQUIVALENT OF 10.1 MUD (OK) - 1 1/2 HRS POH, LAYED DOWN 15 JTS. DP. & PICKED UP 8 3/4" BIT - 1 HR TRIP IN HOLE TO TOP OF LINER & REAMED ~~OUT~~ OUT SAME - 1 HR. FINISH IN HOLE - 4 HRS DRILL FLOAT COLLAR, GUIDE SHOE, CMT & 2' OF NEW HOLE - 1/2 HRS TEST CSG SEAT TO EQUIVALENT OF 10.0 MUD (OK) - 2 HRS DISPLACE MUD IN HOLE W/ WATER - 1 1/2 HRS CLEAN OUT MUD TANKS.

CALL PATTERSON - SUBS

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	-0-
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
HAUL OFF RESERVOIR	1088
Day Cost	6745
Prev. Cost	193,220
Total Cost	199,965

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP
	-0-				

Daily Mud Prev. Mud 13,988 Total Mud Cost 13,988

SMITH 307-2210
FDT-1398
F3-4347

11-6-85

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MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST./FED. COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEXAS

Depth 3973 Footage Made 207 Days Since Spud ____ Form Sd. Sh. Lime, Salt, Other CHERT

Present Operation: DRILLING Mud. Wt. 9.0 Viscosity 36 W.L. 6 Cake 1/32

Chlo. 150 YP 16 PV 8 P.H. 10 HTHP -0- Oil -0- % Sd. TR % Solids 5 %

Vertical Test @3955 off 1° °@ ____ off ____ °@ ____ off ____ °@ ____ off ____ °@ ____ off ____ °

Bit No. 1-C Size 8 3/4 Mfg. SMITH Type FDT Jet Size 3-10's Ser. No. FB9678

In 2764 Out 3955 Total Ftg. 191 Hr. Run 12 1/2 Cond. 8-8 - OUT OF G.

Bit No. 2-C Size 8 3/4 Mfg. SMITH Type FDT Jet Size 3-10's Ser. No. F-B-9466

In 3955 Out ____ Total Ftg. 18 Hr. Run 1/2 Cond. ____

Pump Press 1700 Wt. on Bit 1000 lb. 25 Rotary RPM 100 No. of D.C. 20 O.D. 6"

BHA Length 722.21 Rot. hrs. on BHA 212 No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

2 HRS WASH OUT MUD TANKS - 4 HRS. Building Polymer mud system - 12 1/2 HRS. DRILLING - 2 1/2 HRS. TRIP FOR BIT LAYED DOWN 4 JTS. D.P. - 1 1/2 HRS. REAMING 3831 TO 3955' 1/2 HR. DRILL

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	15,704
Logging	
Mud Logger	495
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
AMT OFF RESERVE	2175
Day Cost	23,536
Prev. Cost	199,965

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 15,704 Prev. Mud 13,988 Total Mud Cost 29,692 Total Cost 223,501

BEEVILLE PUB CO-BEEVILLE

11-7-82

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MORNING REPORT

COMPANY University of Utah Research Inst/ESL COMPANY ENGINEER Gene Terrell

Well No. Lackland A.F.B. #1 Field Wildcat County & State Bexar Tex.

Depth 4128 Footage Made 155 Days Since Spud 17 Form: Sd. Sh. Lime, Salt, Other

Present Operation: Circ. Cond. mud to Log Mud. Wt. 8.9 Viscosity 47 W.L. 5.6 Cake 1/32

Chlo. 150 YP 13 PV 14 P.H. 10 HTHP -0- Oil -0- % Sd. TR % Solids 3 %

Vertical Test @ 3955 off 1° °@ off °@ off °@ off °@ off °

Bit No. 2-C. Size 8 3/4 Mfg. Smith Type F.D.T Jet Size 3-10's Ser. No. LF 89466

In 3955 Out 4008 Total Ftg. 53 Hr. Run 4 Cond. 8-8 out of G.

Bit No. 3-C. Size 8 3/4 Mfg. Smith Type F.D.T Jet Size 3-10's Ser. No. LD 8954

In 4008 Out 4128 Total Ftg. 120 Hr. Run 9 Cond. -

Pump Press. 1800 Wt. on Bit 1000 lb. 25 Rotary RPM 80 No. of D.C. 20 O.D. 6"

BHA Length 722.21 Rot. hrs. on BHA 225 1/2 No. Stab. 2 Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

	EXPENSE	DAILY COST
	Rig	4500
1/2 HR. Rig Serv. - 2 1/2 HRS. Drilling - 2 1/2 HRS. P.O.H, Change Bit	Supervisor	450
Picked up two stabs., & trip in hole w/ B.H.A. - 1 HR.	Mud	7493
Cut & slip drilling - 1 HR. Finish in hole - 2 HRS.	Logging	
Ream from 3683 - to 3998 - 1 HR Drill - 1/2 HR Circ.	Mud Logger	495
8 HRS Drill - 1 1/2 HRS. Circ - 1/2 HR. 10 std Short Trip	Rentals	212
2 HRS. Circ & Cond mud to Log.	Hauling	
Need morning reports.	Casing	
	Monitoring	
	BHA	
Call Arlie -	Bit	
	Day Cost	12,150
	Prev. Cost	223,501
	Total Cost	236,651

Mud Logger	Back G 4	Conn. G -0-	Trip G -0-	Max G 4	ROP 15

Daily Mud 7,493 Prev. Mud 29,692 Total Mud Cost 37,185

BEEVILLE PUB. CO. BEEVILLE

#
11-8-83

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MORNING REPORT

COMPANY ~~LACKLAND A.F.B~~ #1 COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B #1 Field WILDCAT County & State BEXAR, TEX.

Depth 4128 Footage Made -0- Days Since Spud 18 Form: Sd. Sh. Lime, Salt, Other

Present Operation: TEST WELL Mud. Wt. Viscosity W.L Cake

Chlo. YP PV P.H. HTHP Oil % Sd. % Solids %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No Size Mfg. Type Jet Size Ser. No

In Out Total Ftg. Hr. Run Cond.

Bit No Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press Wt. on Bit 1000 lb. Rotary RPM No. of D.C. O.D.

BHA Length -0- Rot. hrs. on BHA 225½ No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

	EXPENSE	DAILY COST
	Rig	4500
2 HRS. P.O.H - 12½ HRS. RIGGED UP LOGGERS, LOGGING W/ DRESSER ATLAS, 4 MAN. INDUCTION, COMPENSATED DENSITY, COMP. NEUTRON, GAMMA RAY, RAN TEMP SURVEY, & SHOT 10 SIDEWALL CORES. - 2½ HRS. WAIT ON HALLIBURTON TEST TOOL - 1½ HRS. PICKED UP & MADE UP TEST TOOL - 2½ HRS. TRIP IN HOLE & SET PACKER @ 3207 - 3 HRS. TESTING WELL	Supervisor	450
	Mud	
	Logging	
	Mud Logger	495
	Rentals	212
	Hauling	
	Casing	
	Monitoring	
	BHA	
	Bit	
	HAUL OFF RESERVE	1622
	Day Cost	7279
	Prev. Cost	236,651
	Total Cost	243,930

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud -0- Prev. Mud 37,185 Total Mud Cost 37,185

BEEVILLE PUB. CO. BEEVILLE

664-7361

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11-9-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / ESA COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND AFB #1 Field WILDCAT County & State BEXAR TEX.

Depth 3744 Footage Made 24 Days Since Spud 19 Form: Sd. Sh. Lime, Salt, Other

Present Operation: UNDER REAMING Mud. Wt. 8.6 Viscosity 50 W.L. 4.4 Cake 1/32

Chlo. 125 YP 52 PV 14 P.H. 9.5 HTHP -0- Oil -0- % Sd. 1/2 % Solids 6 %

Vertical Test @ off °@ off °@ off °@ off °@ off °@ off °

Bit No. UNDER REAMER Size 16" Mfg. TRI-STATE Type #8-KSB LOCKO-MATIC Jet Size -0- Ser. No. 1560

In 3760 Out Total Ftg. 28 Hr. Run 10 1/2 Cond.

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press 500# Wt. on Bit 1000 lb. 1 Rotary RPM 56 No. of D.C. 20 O.D. 6"

BHA Length 627.33 Rot. hrs. on BHA 23 1/2 No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

1 1/2 HRS. TEST WELL W/ W.L. TEST TOOL - 3 HRS CHAIN OUT OF HOLE - 2 HRS. TR. IN HOLE W/ BIT - 2 1/2 HRS CIRC & COND MUD - 2 HRS. STRAP OUT OF HOLE - 2 HRS. MAKE UP UNDER REAMER & TRIP IN HOLE 10 1/2 HRS UNDERREAMING

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	7433
Logging	
Mud Logger	
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
FUNCTION TEST	2029
BITS	7143
Day Cost	22,167
Prev. Cost	243,930
Total Cost	266,097

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 7433 Prev. Mud 37,185 Total Mud Cost 45,618

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11-10-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / ESL. COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEXAS

Depth 3856 Footage Made 69 Days Since Spud 20 Form: Sd. Sh. Lime Salt, Other CHERT

Present Operation: UNDER REAMING Mud. Wt. 8.6 Viscosity 50 W.L. 5.6 Cake 1/32

Chlo. 125 YP 26 PV 7 P.H. 9 HTHP -0- Oil -0- % Sd. .5 % Solids 6 %

Vertical Test @ ____ off ____ °@ ____ off ____ °@ ____ off ____ °@ ____ off ____ °@ ____ off ____ °

Bit No. REAMER #1 Size 16" Mfg. TRI-STATE Type LOCK-O-MATIC Jet Size -0- Ser. No. 1560

In 3760 Out 3807 Total Ftg. 64 Hr. Run 13 1/2 Cond. T-4-B-8

Bit No. REAMER #2 Size 16" Mfg. TRI-STATE Type LOCK-O-MATIC Jet Size -0- Ser. No. —

In 3807 Out ____ Total Ftg. 49 Hr. Run 11 1/2 Cond. 4-2 PER HR

Pump Press. 500 Wt. on Bit 1000 lb. 8 Rotary RPM 50-60 No. of D.C. 20 O.D. 6"

BHA Length 627.33 Rot. hrs. on BHA 11 1/2 No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

3 HRS UNDER REAMING - 1 HR. CIRC. BOTTOMS UP - 2 HRS. POOH & LAYED DOWN UNDER REAMER - 5 1/2 HRS. PICKED UP UNDER-REAMER #2 & INSPECT DCS. - 1 HR. FINISH IN HOLE - 11 1/2 HR. UNDER REAMING

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	2343
Logging	
Mud Logger	
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
Day Cost	7505
Prev. Cost	266,097
Total Cost	273,602

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 2343 Prev. Mud 45,018 Total Mud Cost 47,261

BEEVILLE PUB. CO.-BEEVILLE

729-5353

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MORNING REPORT

11-11-83

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / E.S.L. COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B #1 Field WILDCAT County & State BEXAR, TEX

Depth 3933 Footage Made 71 Days Since Spud 21 Form: Sd. Sh. Lime. Salt. Other

Present Operation: TRIP. IN Mud. Wt. 8.7 Viscosity 41 W.L. 5.4 Cake 1/32

Chlo. 150 YP 32 PV 8 P.H. 9 HTHP -0- Oil -0- % Sd. TR % Solids 7 %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. BEARCAT #2 Size 16" Mfg. TRI-STATE Type LOCK-O-MATIC Jet Size NO Ser. No. ~~1559~~ 1561

In 3407 Out 3862 Total Ftg. 55 Hr. Run 13 1/2 Cond. 4-8

Bit No. BEARCAT #3 Size 16" Mfg. TRI-STATE Type LOCK-O-MATIC Jet Size NO Ser. No. 1559

In 3862 Out 3933 Total Ftg. 71 Hr. Run 15 1/2 Cond.

Pump Press 500 Wt. on Bit 1000 lb. 8 Rotary RPM 50-60 No. of D.C. 20 O.D. 6"

BHA Length 622.33 Rot. hrs. on BHA 29 No. Stab. 0- Days on Drlg. Jar 0- Wear Bushing 0- Days since Last BOP Test 0-

Remarks

2 HRS. UNDERREAMING - 1 HR. CIRC OUT - 1 1/2 HRS. POH - 1/2 HR. CHANGE CUTTERS ON UNDERREAMER - 1 1/2 HR. TRIP IN HOLE 15 1/2 HRS UNDERREAMING - 1 1/2 HRS. CIRC BOTTOMS UP. - 1/2 HR. ~~STAY~~ TRIP IN

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	5859
Logging	
Mud Logger	
Rentals	212
Hauling	
Casing	
Monitoring	
BHA	
Bit	
UNDERREAMING	2882
Day Cost	13,903
Prev. Cost	273,602
Total Cost	287,505

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 5859 Prev. Mud ~~47,381~~ 47,381 Total Mud Cost 53,240

BEEVILLE PUB. CO. BEEVILLE

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11-12-83

MORNING REPORT

COMPANY University of Utah Research Inst. for E.S.L. COMPANY ENGINEER Gene Terrell

Well No. Lackland A.F.B #1 Field Wildcat County & State Bexar, Texas
Depth 3991' Footage Made 58 Days Since Spud 22 Form: Sd. Sh. Lime, Salt, Other Chert
Present Operation: Under Reaming Mud. Wt. 8.9 Viscosity 36 W.L. 5.2 Cake 1/32
Chlo. 125 YP @ 39 PV 9 P.H. 9 HTHP -0- Oil -0- % Sd. 1/16 % Solids 8 %
Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. Reamer #4	Size 10"	Mfg. Tri-State	Type Lock-o-matic	Jet Size N/A	Ser. No. 1588		
In 3933	Out 3	Total Ftg. 58	Hr. Run 12 1/2	Cond.			
Bit No.	Size	Mfg.	Type	Jet Size	Ser. No.		
In	Out	Total Ftg.	Hr. Run	Cond.			
Pump Press. 500	Wt. on Bit 1000 lb. 8	Rotary RPM 50-60	No. of D.C. 20	O.D. 6"			
BHA Length 627.33	Rot. hrs. on BHA 40 1/2	No. Stab. -0-	Days on Drlg. Jar -0-	Wear Bushing -0-	Days since Last BOP Test -0-		

Remarks

	EXPENSE	DAILY COST
	Rig	4500
2 HRS. P.O.H. - 1 1/2 HRS. TRIP IN HOLE w/ 8 1/2" BIT - 2 HRS	Supervisor	450
WASH & REAM PILOT HOLE FROM 3933 - 4093 @ 1 1/2 HRS. CIRC	Mud	6114
@ CLEAN HOLE - 2 HRS. P.O.H. - 2 HRS. PICKED UP UNDER	Logging	
REAMER #4 & TRIP IN HOLE - 13 HRS UNDER REAMING	Mud Logger	
	Rentals	-0-
	Hauling	
	Casing	
	Monitoring	
	BHA	
	Bit	
	HALL OFF RESERVE	1959
CALL: REMCO	UNDER REAMING 2-RUNS	9674
CALL: MANT. V. DICKER		
	Day Cost	22,909
	Prev. Cost	287,505
	Total Cost	310,414

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 6114 Prev. Mud Total Mud Cost 59,354

6

R. W. DIRKS PETROLEUM ENGINEER, INC.

OIL FIELD DRILLING & PRODUCTION SUPERVISION
PHONE 512-375-2194 P. O. DRAWER 200
TULETA, TEXAS 78162-0200

11-12-83

MORNING REPORT

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / E.S.L. COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B. #1 Field WILDCAT County & State BEXAR, TEX

Depth 3991 BOTTOM OF 16" HOLE Footage Made -0- Days Since Spud 23 Form: Sd. Sh. Lime, Salt, Other

Present Operation: Rig up to flush ACID Mud. Wt. WATER IN Viscosity W.L. Cake

Chlo. YP PV P.H. HTHP Oil % Sd. % Solids %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press. Wt. on Bit 1000 lb. Rotary RPM No. of D.C. 20 O.D. 6"

BHA Length 627.33 Rot. hrs. on BHA 110 No. Stab. -0- Days on Drlg. Jar -0- Wear Bushing -0- Days since Last BOP Test -0-

Remarks

1 HR. CIRC - 2 HRS. TRIP OUT OF HOLE W/ UNDER REAMER - 2 HRS. TRIP IN HOLE W/ 8 1/2" BIT & TAGGED FILL IN RATHOLE @ 4083' - 1 1/2 HRS. CIRC OUT - 2 HRS. POH 1 STDS. & WAITED FOR RATHOLE FILL - 1/2 HR TRIP IN HOLE & TAGGED UP @ 4077' - 1 HR. CIRC - 1 1/2 HRS. POH TO REMOVE BIT & BIT SUB - 2 HRS. TRIP IN HOLE & TAGGED UP @ 4077' - 2 HRS. DISPLACE MUD IN HOLE W/ WATER - 2 HRS. WASHOUT MUD TANKS - 2 1/2 HRS. POH 1 STD. TO 3983' & DUMPED 36 CU.' OF SAND - 2 HRS. PULL UP INTO 9 5/8 CSG. & WAIT ON SAND TO SETTLE. 1/2 HR. TRIP IN HOLE & TAGGED SAND @ 3993 - 1/2 HR. RIG UP TO FLUSH WATER SAND W/ HCL ACID 7 1/2 %

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	1970
Logging	
Mud Logger	
Rentals	190
Hauling	
Casing	
Monitoring	
BHA	
Bit	
Day Cost	7110
Prev. Cost	310,414
Total Cost	317,524

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 1970 Prev. Mud 59,354 Total Mud Cost 61,324

BEEVILLE PUB. CO.-BEEVILLE

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PHONE 512-375-2194 P. O. DRAWER 200
TULETA, TEXAS 78162-0200

MORNING REPORT

Date 11-14-83

COMPANY University of Utah Research Inst. / E.S.L. COMPANY ENGINEER Gene Terrell

Well No. Lackland A.F.B. #1 Field Wildcat County & State Bexar, Texas

Depth 3991 Footage Made _____ Days Since Spud 24 Form: Sd. Sh. Lime, Salt, Other _____

Present Operation: Gravel Packing Mud. Wt. Water Viscosity _____ W.L. _____ Cake _____

Chlo. _____ YP _____ PV _____ P.H. _____ HTHP _____ Oil _____% Sd. _____% Solids _____%

Vertical Test @ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Pump Press _____ Wt. on Bit 1000 lb. _____ Rotary RPM _____ No. of D.C. _____ O.D. _____

BHA Length _____ Rot. hrs. on BHA _____ No. Stab. _____ Days on Drlg. Jar _____ Wear Bushing _____ Days since Last BOP Test _____

Remarks

1 HR. Flushing water zone w/ 7½% HCL. Acid. – 1½ HRS. P.O.H. – 5½ HRS. wait on elevators, slips & lift nipple to pick up 7" screen. Handling tools furnished by Dowell unable to do job (4 HRS.) Picked up 7" screen & 2⅞" washpipe – 1 HR. made up Dowell liner hanger & packer – 4½ HRS. trip in hole w/ screen – 2 HRS. set hanger & packer & test back side of packer, w/1000 psi. (ok.) 3½ HRS. Gravel packing & unable to get gravel pack to screen out – 1 HRS. mixing up additional 20 BBl. Gravel pack slurry.

Call – Pat Baker
Mud cleaner
Val Truck

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	-0-
Logging	
Mud Logger	
Rentals	140
Hauling	
Casing	
Monitoring	
BHA	
Bit	
Day Cost	5140
Prev. Cost	317,524
Total Cost	322,664

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud -0- Prev. Mud 61,324 Total Mud Cost 61,324

BEEVILLE PUB. CO.-BEEVILLE

671-2901

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TULETA, TEXAS 78162-0200

MORNING REPORT

Date 11-15-83

COMPANY University of Utah Research Inst / E.S.L. COMPANY ENGINEER Gene Terrell

Well No. Brinkerhoff RFB #1 Field _____ County & State _____

Depth 3991 Footage Made _____ Days Since Spud 25 Form: Sd. Sh. Lime, Salt, Other _____

Present Operation: Rig Released @ 7:00 AM Mud. Wt. _____ Viscosity _____ W.L. _____ Cake _____

Chlo. _____ YP _____ PV _____ P.H. _____ HTHP _____ Oil _____ % Sd. _____ % Solids _____ %

Vertical Test @ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Pump Press _____ Wt. on Bit 1000 lb. _____ Rotary RPM _____ No. of D.C. _____ O.D. _____

BHA Length _____ Rot. hrs. on BHA _____ No. Stab. _____ Days on Drlg. Jar _____ Wear Bushing _____ Days since Last BOP Test _____

Remarks

2½ HRS Finish Gravel Pack & Reverse out - ½ HR. Rig Down Dowell - 2 HRS. P.U. H w/ set tool - 1½ HRS. Laid Down 163 JTS Tubing & set tool - 6 HRS. Laid Down Drill Pipe & DCs - 1½ HRS. Nipple Down BOPs, Nipple up Tree, Clean out Mud Tanks

Rig Released @ 7:00 AM 11-15-83

EXPENSE	DAILY COST
Rig	4500
Supervisor	450
Mud	
Logging	
Mud Logger	
Rentals	20
Hauling	
Casing	
Monitoring	
BHA	
Bit	
20/40 Frac of Gravel Pack, Blind screen & Packer	65,216
Set Hard	7225
Haul off Reserve Jar	3850
Day Cost	81,425
Prev. Cost	322,664
Total Cost	404,089

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud 0 Prev. Mud 61,324 Total Mud Cost 61,324

BEEVILLE PUB. CO. BEEVILLE

358-0290

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TULETA, TEXAS 78162-0200

MORNING REPORT

Date 11-18-83

COMPANY UNIVERSITY OF UTAH RESEARCH INST/EGL COMPANY ENGINEER GENE TERRELL

Well No. LACKLAND A.F.B. #1 / COMPLETION Field WILMOT County & State BEXAR, TEX

Depth 3991 Footage Made -0- Days Since Spud 26 Form: Sd. Sh. Lime, Salt, Other

Present Operation: Mud. Wt. Viscosity W.L. Cake

Chlo. YP PV P.H. HTHP Oil % Sd. % Solids %

Vertical Test @ off °@ off °@ off °@ off °@ off °

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Bit No. Size Mfg. Type Jet Size Ser. No.

In Out Total Ftg. Hr. Run Cond.

Pump Press Wt. on Bit 1000 lb. Rotary RPM No. of D.C. O.D.

BHA Length Rot. hrs. on BHA No. Stab. Days on Drlg. Jar Wear Bushing Days since Last BOP Test

Remarks

PREPARE WELLSITE FOR COMPLETION RIG.

EXPENSE	DAILY COST
Rig	
Supervisor	450
Mud	
Logging	
Mud Logger	
Rentals	60
Hauling	
Casing	
Monitoring	
BHA	
Bit	
Day Cost	510
Prev. Cost	404,085
Total Cost	404,595

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud Prev. Mud Total Mud Cost

BEEVILLE PUB. CO. BEEVILLE

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TULETA, TEXAS 78162-0200

MORNING REPORT

Date 11-19-83

COMPANY UNIVERSITY OF UTAH RESEARCH INST/ESL COMPANY ENGINEER GENE TERRELL

Well No. KIRTLAND AFB #1 Field _____ County & State _____

Depth 3991 Footage Made _____ Days Since Spud 27 Form: Sd. Sh. Lime, Salt, Other _____

Present Operation: LOGGING W/ GEARHART Mud. Wt. (WATER) Viscosity _____ W.L _____ Cake _____

Chlo. _____ YP _____ PV _____ P.H. _____ HTHP _____ Oil _____% Sd. _____% Solids _____%

Vertical Test @ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Pump Press _____ Wt. on Bit 1000 lb. _____ Rotary RPM _____ No. of D.C. _____ O.D. _____

BHA Length _____ Rot. hrs. on BHA _____ No. Stab. _____ Days on Drlg. Jar _____ Wear Bushing _____ Days since Last BOP Test _____

Remarks

~~2H~~ 2½ HRS. WAIT ON COMPLETION RIG - 1½ HRS. RIG UP RIG - 8 HRS. RIGGED UP GEARHART & RAN C.B.L. & GAMMA RAY - HAD TROUBLE W/ TOOLS & PAINE

EXPENSE	DAILY COST
Rig	1095
Supervisor	450
C.B.L. Mud	
Logging	2218
Mud Logger	
Rentals	
Hauling	1000
Casing	
Monitoring	
BHA	
Bit	
8 7/8 P.U. C.P.P.	197
2-2" CEM PUMPS	625
AIR COMP	300
HAUL OFF JET WATER	458
Day Cost	6343
Prev. Cost	404595
Total Cost	410,938

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud — Prev. Mud — Total Mud Cost _____

BEEVILLE PUB. CO. BEEVILLE

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TULETA, TEXAS 78162-0200

MORNING REPORT

Date 11-20-83

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / ESL COMPANY ENGINEER GENE TERRILL

Well No. LAKLAND A.F.B. #1 Field _____ County & State _____

Depth 3991 Footage Made _____ Days Since Spud 28 Form: Sd. Sh. Lime, Salt, Other _____

Present Operation: _____ Mud. Wt. _____ Viscosity _____ W.L. _____ Cake _____

Chlo. _____ YP _____ PV _____ P.H. _____ HTHP _____ Oil _____% Sd. _____% Solids _____%

Vertical Test @ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Bit No. _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Pump Press _____ Wt. on Bit 1000 lb. _____ Rotary RPM _____ No. of D.C. _____ O.D. _____

BHA Length _____ Rot. hrs. on BHA _____ No. Stab. _____ Days on Drlg. Jar _____ Wear Bushing _____ Days since Last BOP Test _____

Remarks

2 HRS. JET WATER WELL - 1 HRS. RIGGED UP FESIO RAN TEMP SURVEY TOOL & B.H. PSI TOOL IN HOLE 9 HRS. JETTING WELL W/ FESIO IN HOLE BETWEEN DATA.

EXPENSE	DAILY COST
Rig	1095
Supervisor	450
Mud	
Logging	
Mud Logger	
Rentals	
Hauling	
Casing	
Monitoring	
BHA	
Bit	
Air Comp	300
FESIO	1050
Day Cost	2895
Prev. Cost	410,938
Total Cost	413,833

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud _____ Prev. Mud _____ Total Mud Cost _____

BEEVILLE PUB. CO. BEEVILLE

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OIL FIELD DRILLING & PRODUCTION SUPERVISION
PHONE 512-375-2194 P. O. DRAWER 200
TULETA, TEXAS 78162-0200

MORNING REPORT

Date 11-21-83

COMPANY UNIVERSITY OF UTAH RESEARCH INST. / ESL COMPANY ENGINEER GENE TERRE

Well No. LAKLAND A.F.B #1 Field _____ County & State _____

Depth 3991 Footage Made _____ Days Since Spud 29 Form: Sd. Sh. Lime, Salt, Other _____

Present Operation: Rig RELEASED @ 2:30 PM Mud. Wt WATER Viscosity _____ W.L. _____ Cake _____

Chlo. _____ YP _____ PV _____ P.H. _____ HTHP _____ Oil _____ % Sd. _____ % Solids _____

Vertical Test @ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____ °@ _____ off _____

Bit No _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Bit No _____ Size _____ Mfg. _____ Type _____ Jet Size _____ Ser. No. _____

In _____ Out _____ Total Ftg. _____ Hr. Run _____ Cond. _____

Pump Press _____ Wt. on Bit 1000 lb. _____ Rotary RPM _____ No. of D.C. _____ O.D. _____

BHA Length _____ Rot. hrs. on BHA _____ No. Stab. _____ Days on Drlg. Jar _____ Wear Bushing _____ Days since Last BOP Test _____

Remarks

1½ HRS. RAN TEMP. SURVEYS W/ FESCO - 4 HRS. JET WELL - ½ HR. POH & LAYED DOWN 15 JTS 2⅜" TUBING - 1½ HRS RIG DOWN & RELEASE RIG

EXPENSE		DAILY COST
Rig		607
Supervisor		450
Mud		
Logging		
Mud Logger		
Air Comp. Rentals		300
Hauling		
Casing		
Monitoring		
BHA		
Bit		
FESCO		210
HAUL / OFF WATER	2146	2146
Day Cost		3713
Prev. Cost		413,833
Total Cost		417,546

Mud Logger	Back G	Conn. G	Trip G	Max G	ROP

Daily Mud _____ Prev. Mud _____ Total Mud Cost _____

BEEVILLE PUB. CO. BEEVILLE