

CASING DETAILS

WELL NAME: LACKLAND A.F.B #1

DATE 10-14-83

TOTAL DEPTH: 68'

COUNTY BEXAR

CASING SIZE: 20" CONDUCTOR

STATE TEXAS

TOTAL CASING RUN IN HOLE 50.00'

LESS CASING CUT-OFF _____

TOTAL CASING LEFT IN HOLE _____

KELLY BUSHING TO BRADEN-HEAD 18.00'

FLOAT SHOE DEPTH . OPEN ENDED 68.00'

FLOAT COLLAR DEPTH NONE

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u> (KB ELEV)	<u>DEPTH</u>
<u>2 JTS</u>			<u>WELD</u>	<u>50.00'</u>	<u>18.00'</u> <u>68.00'</u>

CENTRALIZER & SCRATCHER LOCATION: NONE
CSG. SET W/ RAT HOLE DIGGERS

DISPOSITION OF OTHER PIPE: _____

DRILLING SUPERVISOR GONV TIRRELL

R. W. DIRKS PETROLEUM ENGINEER, INC.

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WELL NAME: LACKLAND A.F.B #1

DATE 10-14-83

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COUNTY BEXAR

CASING SIZE: 20" - CONDUCTOR

STATE TEXAS

TOTAL CASING RUN IN HOLE 50.00'

LESS CASING CUT-OFF _____

TOTAL CASING LEFT IN HOLE _____

KELLY BUSHING TO BRADEN-HEAD 18.00'

FLOAT SHOE DEPTH OPEN ENDED 68.00'

FLOAT COLLAR DEPTH NONE

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u>	<u>DEPTH</u>
				(KB ELEV)	<u>18.00'</u>
<u>2 JTS</u>			<u>WELD</u>	<u>50.00'</u>	<u>68.00'</u>

CENTRALIZER & SCRATCHER LOCATION: NONE

CS4 SET W/ RAT HOLE DIGGER

DISPOSITION OF OTHER PIPE: _____

DRILLING SUPERVISOR GRAND FERRELL

R. W. DIRKS PETROLEUM ENGINEER, INC.

CASING DETAILS

WELL NAME: LACKLAND P.F.B #1 DATE: 10-27-83

TOTAL DEPTH: 2046 COUNTY: BEXAR

CASING SIZE: 1 3/8 - SURFACE CSQ. STATE: TEXAS

TOTAL CASING RUN IN HOLE 2046.12
 LESS CASING CUT-OFF 21.62
 TOTAL CASING LEFT IN HOLE 2025.00
 KELLY BUSHING TO BRADEN-HEAD 18.00
 FLOAT SHOE DEPTH 2043.00
 FLOAT COLLAR DEPTH 1999.31

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u>	<u>DEPTH</u>
				(KB ELEV)	<u>18.00</u>
<u>CUTOFF</u>	<u>5450</u>	<u>K-SS</u>	<u>S.T.P.C</u>	<u>18.48</u>	<u>36.48</u>
<u>HQSTS.</u>	<u>5450</u>	<u>K-SS</u>	<u>S.T.P.C</u>	<u>1962.83</u>	<u>1999.31</u>
<u>FLOAT COLLAR - HALLIBURTON</u>				<u>1.95</u>	<u>2001.26</u>
<u>1 JT.</u>	<u>5450</u>	<u>K-SS</u>	<u>S.T.P.C</u>	<u>40.12</u>	<u>2041.38</u>
<u>FLOAT SHOE - HALLIBURTON</u>				<u>1.62</u>	<u>2043.00</u>

CENTRALIZER & SCRATCHER LOCATION: MAN TURBOLIZERS, SPACED 1 PER JT.
THROUGH EDWARDS FORMATION, A TOTAL OF 16 TURBOLIZERS,
RAN TWO CEMENT BASKETS, ON ON TOP OF EDWARDS
FORMATION, THE OTHER @ BASE OF CONDUCTOR CSQ.

DISPOSITION OF OTHER PIPE: _____

DRILLING SUPERVISOR GENE TERRELL

R. W. DIRKS PETROLEUM ENGINEER, INC.

CASING DETAILS

WELL NAME: LAKLAND P.F.B #1

DATE: 10-27-83

TOTAL DEPTH: 2046

COUNTY: BEXAR

CASING SIZE: 1 3/8 - SURFACE CSQ.

STATE: TEXAS

TOTAL CASING RUN IN HOLE 2046.12

LESS CASING CUT-OFF 21.62

TOTAL CASING LEFT IN HOLE 2025.00

KELLY BUSHING TO BRADEN-HEAD 18.00

FLOAT SHOE DEPTH 2043.00

FLOAT COLLAR DEPTH 1999.31

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u>	<u>DEPTH</u>
				(KB ELEV)	<u>18.00</u>
<u>CUTOFF</u>	<u>5450</u>	<u>K-SS</u>	<u>S.T.C</u>	<u>18.18</u>	<u>36.18</u>
<u>HQS.</u>	<u>5450</u>	<u>K-SS</u>	<u>S.T.C</u>	<u>1962.83</u>	<u>1999.31</u>
<u>FLOAT COLLAR - HALLIBURTON</u>				<u>1.95</u>	<u>2001.26</u>
<u>1JT.</u>	<u>5450</u>	<u>K-SS</u>	<u>S.T.C</u>	<u>40.12</u>	<u>2041.38</u>
<u>FLOAT SHOE - HALLIBURTON</u>				<u>1.62</u>	<u>2043.00</u>

CENTRALIZER & SCRATCHER LOCATION: 16 TURBULIZERS, SPACED 1 PER ST.
THROUGH EDWARDS FORMATION, A TOTAL OF 16 TURBULIZERS,
16 ON TOP OF EDWARDS
FORMATION, THE OTHER @ BASE OF CONDUCTOR CSQ.

DISPOSITION OF OTHER PIPE: _____

DRILLING SUPERVISOR GENE TERRELL

R. W. DIRKS PETROLEUM ENGINEER, INC.

CASING DETAILS

WELL NAME: LACKLAND A.F.B #1 DATE 11-3-83
 TOTAL DEPTH: 3764' COUNTY BEXAR
 CASING SIZE: 9 5/8 LINER STATE TEXAS
 TOTAL CASING RUN IN HOLE + HANGERS 1921.27
 LESS CASING CUT-OFF _____
 TOTAL CASING LEFT IN HOLE + HANGERS 1921.27
 KELLY BUSHING TO BRADEN-HEAD _____
 FLOAT SHOE DEPTH 3756.80
 FLOAT COLLAR DEPTH 3714.75

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u>	<u>DEPTH</u>
				(KB ELEV)	
59 JTS. DRILL PIPE	1 1/4"	F	Full Hole	1429.23	
1 BAKERLINE SET TOOL				6.50	1845.73
MINUS DRILL PIPE ABOVE ROTARY				10.20	1835.53
TOP OF LINER					1835.53
SLIP SURFACE AREA				2.25	1837.78
X-OVER (10 1/4" DR. L.T.R.C. X 9 5/8" 36" DR. S.P.C.)				1.10	1838.88
50 JTS. 36"		J-55	S.P.C.	1875.87	3714.75
BAKERLINE LANDING FLOAT COLLAR				3.00	3717.75
1 JT. 36"		J-55	S.P.C.	36.80	3754.55
1 BAKERLINE FLOAT SHOE				2.25	3756.80

CENTRALIZER & SCRATCHER LOCATION: RAN TURBOLIZER, 1 PER ST. ON BOTTOM
500' & RAN 1 CEMENT BASKET @ BASE OF SURFACE CSY.

DISPOSITION OF OTHER PIPE: 9 JTS. OF 9 5/8" 36" RAN 3 CSY
LEFT ON BACKS.

DRILLING SUPERVISOR GENE TERRELL

R. W. DIRKS PETROLEUM ENGINEER, INC.

CASING DETAILS

WELL NAME: LACKLAND A.F.B #1 DATE 11-3-83
 TOTAL DEPTH: 3764' COUNTY BEXAR
 CASING SIZE: 9 5/8" LINER STATE TEXAS
 TOTAL CASING RUN IN HOLE + HANGERS 1921.27
 LESS CASING CUT-OFF _____
 TOTAL CASING LEFT IN HOLE + HANGERS 1921.27
 KELLY BUSHING TO BRADEN-HEAD _____
 FLOAT SHOE DEPTH 3756.80
 FLOAT COLLAR DEPTH 3714.75

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u>	<u>DEPTH</u>
				(KB ELEV)	
59 JTS. DRILL PIPE, 1 1/4"		F	Full Hole	1429.23	
1 BAKERLINE SET TOOL				6.50	1845.73
MINUS DRILL PIPE ABOVE ROTARY				10.20	1835.53
TOP OF LINER					1835.53
SLIP SURFACE AREA				2.25	1837.78
X-OVER (10 1/4" XRD. 2 TQC X 9 5/8", 36" XRD. SPEC.)				1.10	1838.88
50 JTS. 36"		J-55	STQC	1875.87	3714.75
BAKERLINE LANDING FLOAT COLLAR				3.00	3717.75
1 JT. 36"		J-55	STQC	36.80	3754.55
1 BAKERLINE FLOAT SHOE				2.25	3756.80

CENTRALIZER & SCRATCHER LOCATION: RAN TURBOVIZER, 1 PER ST. ON BOTTOM
500' & RAN 1 CEMENT BASKET @ BASE OF SURFACE CSY-

DISPOSITION OF OTHER PIPE: 9 JTS. OF 9 5/8" 36" ANGLE 3 CSY
LEFT ON BACKS.

DRILLING SUPERVISOR GENE TERRELL

R. W. DIRKS PETROLEUM ENGINEER, INC.

CASING DETAILS

WELL NAME: LACKLAND A.F.B. #1 DATE: 11-13-83

TOTAL DEPTH: _____ COUNTY: BEXAR

CASING SIZE: 7" STAINLESS STEEL SCREEN STATE: TEXAS

TOTAL CASING RUN IN HOLE 558.24

LESS CASING CUT-OFF _____

TOTAL CASING LEFT IN HOLE BLANKS & SCREEN & PACKERS 558.24

KELLY BUSHING TO BRADEN-HEAD _____

FLOAT SHOE DEPTH _____

FLOAT-COLLAR DEPTH Bull Plug 3991.09

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u>	<u>DEPTH</u>
				(KB ELEV)	
<u>110 JTS.</u>	<u>1 1/4"</u>	<u>E. DRILL PIPE . R.H.</u>		<u>3427.48</u>	
<u>1 CORWELL</u>	<u>SET TOOL</u>			<u>9.12</u>	<u>3436.60</u>
<u>MINUS DRILL PIPE ABOVE ROTARY</u>				<u>3.75</u>	<u>3432.85</u>
<u>TOP OF LINER</u>					<u>3432.85</u>
<u>1- 9 5/8"</u>	<u>MODEL 16-PACKER - 36"</u>			<u>8.25</u>	<u>3441.10</u>
<u>1- 5 1/2"</u>	<u>SAFETY SHEAR SUB</u>			<u>1.74</u>	<u>3442.84</u>
<u>1- X-OVER, 7"</u>	<u>STAC PIN & 5 1/2" L.T.O.C. BOX</u>			<u>.74</u>	<u>3443.58</u>
<u>9 JTS.</u>	<u>23# 7"</u>		<u>STAC.</u>	<u>345.98</u>	<u>3789.56</u>
<u>5 JTS.</u>	<u>12 GAUGE STAINLESS STEEL WIRE WRAPPED SCREEN</u>			<u>200.86</u>	<u>3990.42</u>
<u>1</u>	<u>BLADED Bull Plug</u>			<u>.67</u>	<u>3991.09</u>

CENTRALIZER & SCRATCHER LOCATION: RAN 1 CENTRALIZER ON EVERY BLANK JT.
Plug EVERY SCREEN JT.

DISPOSITION OF OTHER PIPE: ALL PIPE & SCREEN RAN

DRILLING SUPERVISOR [Signature]

R. W. DIRKS PETROLEUM ENGINEER, INC.

CASING DETAILS

WELL NAME: LACKLAND A.F.B. #1 DATE: 11-13-83
 TOTAL DEPTH: _____ COUNTY: BEXAR
 CASING SIZE: 7" STAINLESS STEEL SCREENED STATE: TEXAS
 TOTAL CASING RUN IN HOLE 558.24
 LESS CASING CUT-OFF _____
 TOTAL CASING LEFT IN HOLE BLANKS & SCREEN & PACKERS 558.24
 KELLY BUSHING TO BRADEN-HEAD _____
 FLOAT SHOE DEPTH _____
 FLOAT COLLAR DEPTH Bull Plug 3991.09

TOP TO BOTTOM

<u>JOINTS</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>LENGTH</u>	<u>DEPTH</u>
				(KB ELEV)	
110 JTS.	14 [#]	E. DRILL PIPE .F.H.		3427.48	
1 DOWNHILL SET TOOL				9.12	3436.60
MINUS DRILL PIPE ABOVE ROTARY				3.75	3432.85
TOP OF LINER					3432.85
1- 9 5/8" MODEL 16-6 PACKER - 36 [#]				8.25	3441.10
1- 5 1/2" SAFETY SHEAR SUB				1.74	3442.84
1- X-OVERS, 7" STUC PIN & 5 1/2" L.T.O.C. BOX				.74	3442.58
9 JTS.	23 [#] 7"		ST.O.C.	345.98	3789.56
5 JTS.	12 GAUGE STAINLESS STEEL WIRE WRAPPED SCREEN			200.86	3990.42
1- BLADED BULL PLUG				.67	3991.09

CENTRALIZER & SCRATCHER LOCATION: RAN 1 CENTRALIZER ON EVERY BLANK JT.
Plug EVERY SCREEN JT.

DISPOSITION OF OTHER PIPE: ALL PIPE & SCREEN RAN

DRILLING SUPERVISOR 