

Computer Inventoried

ORIGINAL

15-047-21395

OIL PRODUCERS INC., OF KS.
INITIAL COMPLETION

WELL - KLEIN #3

LEGAL - C-W/2-E/2-SE/4 OF 2-24s-16w IN EDWARDS CO. KS.

API# - 15-047-21,395

G.L. - 2053'

K.B. - 9' ABOVE G.L.

SURFACE CASING - 8 5/8" @ 240'

RTD - 3950'

LTD - 3949' (ELI DUAL IND., COMP.DENS.NEUT., COMP.SONIC LOGS 11/1/93)

PRODUCTION CASING - 4 1/2" @ 3908' WITH 250 SX EA-S (BOTTOM STAGE)

TWO STAGE CEMENT - 100 SX EA-2 @ D.V. TOOL - 2189'

TOP CEMENT - 2700' (BOTTOM STAGE)
1825' (TOP STAGE)

PERFORATIONS - LANSING - A-----3588'-3591' 4/FT. (SQUEEZED)
LANSING - E-----3653'-3659' 4/FT. (SQUEEZED)
LANSING - H-----3716'-3722' 4/FT. (UNDER PLUG)
LANSING - I-----3737'-3742' 4/FT. (UNDER PLUG)
LANSING - J-----3765'-3769' 4/FT. (UNDER PLUG)
LANSING - K-----3786'-88' & 3792'-95' 4/FT. (UNDER PLUG)
WINFIELD-----2050'-2053' 4/FT.
CRYDER-----2023'-2025' 4/FT.
HERRINGTON---1997'-1999' 4/FT.

PBTD - 3821' (ELI LOG 11/5) CIBP @ 3732', CIBP @ 2100'

CIBP'S - 3732' & 2100'

COMPL DATE - 11/93

TUBING RAN - 15' MA, SN, 68 JTS. USED 2 3/8" TBG (2070.00')

TUBING SET - 2092' (8' OFF BOTTOM)

PUMP RAN - 2" X 1 1/2" X 10' RWTC WITH 6' GA.

RODS RAN - PUMP, 2', 8 1/4", 6', 6', 2', P.R.

PUMP SET @ - 2077.10'

PUMPING UNIT & ENGINE - CABOT-80, SERIAL # - D801436.
CONTINENTAL C-66.

K C C

11/20/93

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ORIGINAL

11/5/93

WAGNER TRUCKING ON LOCATION & DELIVERED APPROX 3900' 2 3/8" TUBING OUT OF OIL PRODUCERS YARD.

SWS ON LOCATION & RIGGED UP D-D DERRICK.

RIH WITH 3 7/8" BIT & TUBING. TAGGED D.V. TOOL @ 2189'.

GOLDEN-B DRILLING ON LOCATION WITH DRILLING EQUIPMENT.

DRILLED - D.V. TOOL @ 2189'. CIRCULATED HOLE CLEAN.

POOH - WITH TUBING & BIT.

ELI ON LOCATION TO RUN CORRELATION & SONIC CEMENT BOND LOGS.

FOUND PBTD - 3812'.

FOUND TOP CEMENT BOTTOM STAGE - 2700'. WITH GOOD CEMENT BONDAGE 3812'-2700'.

FOUND TOP CEMENT TOP STAGE - 1825'. WITH GOOD CEMENT BONDAGE FROM 2189'-1825'.

SWS RIGGED UP 4 1/2" CASING SWAB TOOLS.

SWABBED WELL DOWN TO PBTD @ 3812'.

HALLIBURTON ON LOCATION WITH 250 GALS ACETIC ACID.

DUMPED - 250 GALS ACETIC ACID IN HOLE TO PERFORATE THROUGH.

ELI RIGGED TO PERFORATE LANSING-H ZONE.

PERFORATED LANSING-H INTERVAL 3716'-3722'. - USING EXPENDABLE GUN FOR MAXIMUM PENETRATION.

FOUND TOTAL DEPTH @ 3821'.

HAD GOOD GAS BLOW TO SURFACE AFTER PERFORATING.

SHUT DOWN DUE TO DARKNESS.

11/6/93

SICP - 460 psi. BLEW WELL DOWN & STARTED TO MIST. COULD NOT MAKE SWAB RUN.

HALLIBURTON ON LOCATION WITH 400 GALS 15% MCA. RIGGED TO ACIDIZE LANSING-H ZONE.

ACIDIZED LANSING-H PERFS 3716'-22' AS FOLLOWS:

PUMPED 400 GALS 15% MCA. (10 BBLS)

PUMPED 43 BBLS FIELD BRINE & HOLE LOADED.

NOTE: - HOLE LOADED 6 BBLS EARLY DUE TO 6 BBLS ACETIC LEFT IN HOLE.

DISPLACED 6 BBLS ACETIC @ 1/2 BPM - 400 psi TO 1000 psi.

PRESSURE DROPPED TO 400 psi WHEN 15% MCA ACID HIT PERFORATIONS.

DISPLACED 3 BBLS 15% MCA @ 2 BPM - 200 psi.

DISPLACED REMAINING 7 BBLS 15% MCA @ 2 BPM - VAC.

ISIP - VAC.

TOTAL LOAD - 70 BBLS.

SWS RIGGED TO SWAB BACK ACID LOAD. FOUND FL. LEV. @ 800' FROM SURFACE.

SWAB TEST LANSING-H AFTER ACID AS FOLLOWS:

SWABBED APPROX 1 HR. RECOVERED 45 BBLS.

NOTE: - (@ THIS POINT LOST SWAB TOOLS IN HOLE WITH 25' OF SAND LINE ON TOP, DUE TO D.V. TOOL HANGING SWAB TOOLS. DECISION MADE TO REPLACE SWAB TOOLS INSTEAD OF MAKING FISHING ATTEMPTS, AS FISHING SAND LINE CAN BE VERY DIFFICULT.)

TESTED GAS WHILE WAITING ON SWAB TOOLS @ 23 MCFPD.

REPLACED SWAB TOOLS & RESUMED SWABBING @ 2:30 p.m. WITH FL. LEV. @ 1500'.

1 HR. SWAB TEST RECOVERED 20 BBLS WATER 23 MCFPD GAS BLOW WITH FL. LEV. @ 1500'

1 HR. SWAB TEST RECOVERED 8 BBLS WATER 30 MCFPD GAS BLOW WITH FL. LEV. @ 1400'

RECOVERED TOTAL OF 73.83 BBLS OF 70 BBL ACID LOAD.

SHUT DOWN FOR THE WEEKEND.

11/8/93

SICP - 560 psi. BLEW WELL DOWN TO 100 psi WELL STARTED FLOWING.

1/2 HR. FLOW TEST RECOVERED 1.67 BBLS WATER WITH 30 MCFPD GAS BLOW.

SBHP - CALCULATES 630 psi. (WITHOUT FIGURING ANY FLUID COLUMN)

HALLIBURTON ON LOCATION TO RE-ACIDIZE LANSING-H PERFORATIONS WITH 1500 GALS 15% SGA ACID.

ORIGINAL

11/8 CONT.

RE-ACIDIZED LANSING - H PERFORATIONS 3716'-22' AS FOLLOWS:

PUMPED 1500 GALS 15% SGA ACID.
DISPLACED ACID TO PERFS W/24 BBLs FIELD BRINE @ 4 BPM - VAC.
DISPLACED 750 GALS ACID INTO PERFS @ 4 BPM - VAC.
DISPLACED REMAINING ACID INTO PERFS @ 8 BPM - 50 psi.
OVER-FLUSHED ACID WITH 4 BBLs FIELD BRINE.
ISIP - VAC.
TOTAL LOAD - 100 BBLs.

LET ACID SIT FOR 1 HR. TO SPEND. SWS RIGGED TO SWAB BACK @ 10:00 A.M. FL. LEV @ 1800'.
SBHP - CALCULATES 916 psi. (HYDROSTATIC FLUID COLUMN)

SWAB TEST LANSING-H AFTER ACID AS FOLLOWS:

TIME	MADE	TOTAL	FL. LEV.	MCFPD	REMARKS
11:00	26.72	26.72	2200'	NONE	1 HR. SWABBING
12:00	25.05	51.77	1800'	NONE	1 HR. SWABBING
1:00	18.37	70.14	1800'	NONE	1 HR. SWABBING
2:00	15.03	85.17	1500'	NONE	1 HR. SWABBING
3:00	11.69	96.86	1500'	SHOW	1 HR. SWABBING
4:00	16.70	113.56	1600'	SHOW	1 HR. SWABBING.

NOTE (AT THIS POINT THE LANSING - H WAS CONSIDERED NON-COMMERCIAL)

ELI ON LOCATION TO PERFORATE LANSING ZONES I - J & K.

RIGGED TO PERFORATE LANSING - K 3786'-88' & 3792'-95'.

FOUND TOTAL DEPTH @ 3782'.

NOTE: - (WE ARE NOT DEEP ENOUGH TO PERFORATE LANSING - K ZONE. EVIDENTLY HAVE SAND LINE @ 3782' OR SWAB TOOLS LOST IN HOLE 11/6 DID NOT FALL ALL THE WAY TO PBTD OF 3821'. WILL HAVE TO ATTEMPT TO BREAK OFF LINE, PUSH LINE DOWN OR FISH TOOLS BEFORE WE CAN RESUME COMPLETION ATTEMPT.)

ELI CAME OUT OF HOLE WITH GUN. WHILE COMING OUT OF HOLE, DUE TO SWAB ACTION OF CASING GUN LANSING-H ZONE KICKED OFF WITH HIGH GAS VOLUMES. AT THIS POINT DECISION MADE TO TRY TO KICK WELL BACK OFF WITH SWAB TOOLS AND RE-EVALUATE THE STATUS OF LANSING - H ZONE.

MADE 1 RUN WITH SWAB TOOLS BLANK. WELL DID NOT KICK OFF.

MADE 1 RUN WITH 2 V-RING SWAB CUPS ON BOTTOM. WELL KICKED OFF WHILE COMING OUT OF HOLE. FLUID WAS VERY SCATTERED.

WILL TEST WELL FURTHER IN A.M.

SHUT DOWN DUE TO DARKNESS.

11/9/93

SICP - 610 psi. FL. LEV. - SCATTERED FROM 1000' - T.D.

SBHP - 685 psi (W/O FIGURING ANY FLUID COLUMN)

BLEW WELL DOWN & STARTED SWABBING @ 8:00 A.M.

SWAB TEST LANSING - H AS FOLLOWS:

TIME	MADE	TTL	FL. LEV.	MCFPD	REMARKS
9:00	16.70	130.26	SCTRD	SHOW	2 RUNS FROM T.D.
10:00	20.04	150.30	FLOW	SHOW	3 RUNS FROM T.D.
10:30	11.69	161.99	FLOW	120 MCFPD	1/2 HR. FLOWING
11:00	13.36	175.35	SCTRD	84 MCFPD	1/2 HR. SWABBING.
11:30	5.01	180.36	FLOW	62 MCFPD	1/2 HR. FLOWING.

RIGGED TO RUN SAND LINE HOOK ON TUBING TO ATTEMPT TO PUSH SWAB TOOLS DOWN, FISHING SOME SAND LINE AND/OR FISHING SWAB TOOLS OUT OF HOLE TO ALLOW PERFORATING OF LANSING - K ZONE.

RIH - WITH SAND LINE HOOK & TUBING.

COULD NOT GET THROUGH D.V. TOOL WITH FISHING TOOL.

POOH - WITH TUBING & SAND LINE HOOK.

KS. FISHING TOOLS ON LOCATION WITH TAPERED MILL TO MILL OUT D.V. TOOL.

ORIGINAL

11/9 CONT.

RIH - WITH TAPERED MILL & TUBING.
MILLED THROUGH D.V. TOOL @ 2189'
SHUT DOWN FOR THE NIGHT.

11/10/93

POOH - WITH TUBING & TAPERED MILL.
RIH - WITH SAND LINE HOOK & TUBING.
LATCHED ONTO SAND LINE.
POOH - WITH TUBING SAND LINE HOOK, APPROX 25' OF SAND LINE, & SWAB TOOLS LOST IN HOLE
ON 11/6/93.
RETURNED SWAB TOOLS THAT WERE PURCHASED FROM OILFIELD PNEUMATICS.

ELI WIRELINE ON LOCATION TO PERFORATE LANSING ZONES I-J & K.

PERFORATED LANSING-K 3786'-88' & 3792'-95' 4/ET. USING EXP. CASING GUN.
PERFORATED LANSING-I 3765'-69' 4/ET. USING EXPENDABLE CASING GUN.
PERFORATED LANSING-I 3737'-47' 4/ET. USING EXPENDABLE CASING GUN.
FOUND TOTAL DEPTH @ 3820'

ELI WIRELINE RIGGED DOWN & MOVED OFF LOCATION.

SWS RIGGED TO SWAB TEST.
SWABBED WELL DOWN IN 2 RUNS. RECOVERED 16 BBLs. SHOW OIL & STRONG GAS.
TESTED GAS FOR 15 MINUTES @ 225 MCFPD.
SHUT DOWN FOR THE NIGHT.

11/11/93

SICP - 600 psi. BLEW WELL DOWN & STARTED FLOWING.
1/2 HR. FLOWING RECOVERED 5.01 BBLs @ 7.5% OIL.
1/2 HR. FLOWING RECOVERED 1.67 BBLs @ 2.5% OIL. GAS TESTED @ 265 MCFPD.
HALLIBURTON ON LOCATION WITH PPI TOOL SPACED OUT 16' TO ISOLATE EACH
LANSING ZONES I, J, & K SEPARATELY TO ACIDIZE & TEST INDIVIDUALLY.
RIH - WITH PPI TOOL & TUBING.
STRADDLED LANSING - K ZONE 3786'-88' & 3792'-95'.
HALLIBURTON RIGGED TO ACIDIZE LANSING - K PERFORATIONS WITH 500 GALS 15% MCA.

ACIDIZED LANS.-K PERES AS FOLLOWS:

SPOT 500 GALS 15% MCA TO BOTTOM OF TUBING.
PRESSURE IN INTERVALS TO 500 psi FELL TO 100 psi.
DISPLACED 250 GALS ACID @ 1 BPM - 700 psi TO 200 psi.
DISPLACED 250 GALS ACID @ 2 BPM 100 psi.
ISIP - VAC. TOTAL LOAD - 27 BBLs.

SWS RIGGED TO SWAB TEST LANSING - K ZONE.

SWAB TEST LANSING-K ZONE AS FOLLOWS:

FOUND FLUID LEVEL @ 800' DOWN.
SWABBED APPROX. 1 HR. RECOVERED 30 BBLs @ 2% OIL. VERY SLIGHT SHOW OF GAS.
MAINTAINED 1200' OF FLUID IN HOLE BETWEEN RUNS.

IN RE-EXPMINING HALLIBURTONS FIGURES FOUND THAT TOP RUBBER OF PPI TOOL MAY BE SET
@ 3688'. MAKING THIS TEST VOID OF ACCURACY. DECISION MADE TO ACIDIZE LANSING ZONES
J & I THEN COME BACK & RE-TEST LANSING - K FOR EVALUATION.

PICKED UP & STRADDLED LANSING LANSING - J 3737'-47'.
RIGGED TO ACIDIZE LANSING - J WITH 400 GALS 15% MCA

ACIDIZED LANSING - J 3765'-69' AS FOLLOWS:

PUMPED 400 GALS 15% MCA & DISPLACED TO BOTTOM OF TUBING.
DISPLACED 200 GALS @ 1 1/2 BPM - 500 psi TO 200 psi.
DISPLACED 200 GALS @ 2 BPM - 200 psi TO VAC.
ISIP - VAC. TOTAL LOAD - 25 BBLs.

PICKED UP & STRADDLED LANSING - I ZONE 3737'-47'

ORIGINAL

11/11/93

RIGGED TO ACIDIZE LANSING - I WITH 850 GALS 15% MCA.

ACIDIZED LANSING - I 3737'-47' AS FOLLOWS:

PUMPED 850 GALS 15% MCA & DISPLACED TO BOTTOM OF TUBING.
DISPLACED ACID @ 2 3/4 BPM TO 4 BPM - 700 psi TO 50 psi.
ISIP - VAC. TOTAL LOAD - 35 BBLs.

SWS RIGGED TO SWAB TEST LANSING - I.

SWAB TEST LANSING - I 3737'-47' AS FOLLOWS:

SWABBED APPROX 1 HR. RECOVERED 18 BBLs WATER NO SHOWS OF OIL OR GAS.
SHUT DOWN FOR THE NIGHT.

11/12/93

SICP LANSING - I - 640 psi, FL. LEV. - 2300' DOWN. BLEW WELL DOWN.

CONT. SWAB TESTING LANSING - I AS FOLLOWS:

SWABBED 1 HR. RECOVERED 21.71 BBLs NO SHOWS OF OIL OR GAS.
TOTAL RECOVERY LANSING-I 41.71 BBLs OUT OF 35 BBL ACID LOAD.
IT IS DETERMINED THAT LANSING - I IS NON-COMMERCIAL & DOES NOT MERIT SECONDARY ACID TREATMENT.

HALLIBURTON ON LOCATION. SET PPI STRADDLE TOOL TO ISOLATE LANSING-J PERFORATIONS 3765'-69'.

SWS RIGGED TO SWAB TEST LANSING - J PERFORATIONS.

SWAB TEST LANSING - J PERF 3765'-69' AS FOLLOWS:

FOUND FL. LEV. @ 2300' DOWN.
SWABBED FOR 2 HRS. RECOVERED 38.39 BBLs. SLIGHT SHOW OIL. NO SHOW OF GAS.
PULLING 4 1/2 BBLs/RUN.
IT IS DETERMINED THAT LANSING - J IS NON-COMMERCIAL & DOES NOT MERIT SECONDARY ACID TREATMENT.

RELEASED PPI TOOL & MOVED DOWN & STRADDLED LANSING-K PERFS.
RIGGED TO RE-TEST LANSING-K PERFS 3786'-88' & 3792'-95'.

RE-SWAB TEST LANSING-K PERFORATIONS AS FOLLOWS:

SWABBED 1 1/2 HRS. RECOVERED 30 BBLs WATER WITH NO SHOWS OF OIL OR GAS.
IT IS DETERMINED THAT LANSING-K IS NON-COMMERCIAL & DOES NOT MERIT SECONDARY ACID TREATMENT.

DECISION MADE TO SET PLUG OVER LANSING ZONES I-J & K. THEN ATTEMPT COMPLETION IN LANSING ZONES A & E.

POOH - WITH TUBING & PPI TOOL.

ELI WIRELINE ON LOCATION TO SET CIBP & PERFORATE LANSING A & E.

SET CIBP @ - 3732' (OVER LANSING ZONES I, J, & K)

PERFORATED LANSING - E 3653'-3659' 4/ET. USING EXPENDABLE CASING GUN.

PERFORATED LANSING - A 3588'-3591' 4/ET. USING EXPENDABLE CASING GUN.

RIH - WITH PPI TOOL & TUBING TO ISOLATE LANSING A & E.
SHUT DOWN FOR THE WEEKEND.

11/15/93

SWS & HALLIBURTON BACK ON LOCATION. TAGGED CIBP @ 3732'.
PICKED UP & STRADDLED LANSING-E PERFORATIONS 3653'-3659'.
HALLIBURTON ON LOCATION TO ACIDIZE LANSING-E WITH 500 GALS 15% MCA ACID.

ORIGINAL

11/15 CONT.

ACIDIZED LANSING-E PERES 3653'-59' AS FOLLOWS:

SPOTTED 500 GALS 15% MCA TO BOTTOM OF TUBING.
DISPLACED 400 GALS @ 3 BPM - VAC. INCREASED RATE TO 7 BPM.
DISPLACED 100 GALS @ 7 BM - 200 psi.
ISIP - VAC. TOTAL LOAD - 26 BBLS.
SWS RIGGED TO SWAB TES LANSING-E.

SWAB TEST LANSING - E AS FOLLOWS:

FOUND FLUID LEVEL @ 2200' DOWN.
SWABBED 1 HR. RECOVERED 21.71 BBLS SHOW OF OIL. STRONG GAS. FL. LEV. 2700' & SCTRD.
NOTE: - LANSING-E WILL JUSTIFY SECONDARY ACID JOB.

PULLED UP HOLE WITH PPI TOOL & STRADDLED LANSING - A PERFS 3588'-91'.
RIGGED TO ACIDIZE LANSING - A WITH 500 GALS 15% MCA.

ACIDIZED LANSING - A AS FOLLOWS:

SOTTED 500 GALS 15% MCA TO BOTTOM OF TUBING.
DISPLACED ACID @ 6 1/2 BPM - 700 psi.
ISIP - VAC. TOTAL LOAD - 26 BBLS.
SWS RIGGED TO SWAB TEST LANSING - A PERFS 3588'-91'.

SWAB TEST LANSING - A AS FOLLOWS:

FOUND FL. LEV. @ 2000' DOWN.
SWABBED 1 1/2 HRS. RECOVERED 28.35 BBLS. SHOW OF OIL. STRONG GAS. FL. LEV. 2500' & SCTRD.
NOTE: - LANSING-A WILL ALSO JUSTIFY SECONDARY ACID JOB.

HALLIBURTON ON LOCATION WITH 3000 GALS 15% SGA ACID TO RE-ACIDIZE LANSING E&A.

RE-ACIDIZED LANSING - A AS FOLLOWS:

PUMPED 1500 GALS 15% SGA.
DISPLACED WITH 19 BBLS FIELD BRINE (THIS INCLUDES 5 BBL OVER-FLUSH)
DISPLACED @ 5 1/2 BPM - 400 psi.
ISIP - VAC. TOTAL LOAD - 55 BBLS.

LOWERED PPI TOOL TO STRADDLE LANSING - E PERFORATIONS.
HALLIBURTON RIGGED TO RE-ACIDIZE LANSING - E.

RE-ACIDIZED LANSING - E AS FOLLOWS:

PUMPED 1500 GALS 15% SGA.
DISPLACED WITH 19 BBLS FIELD BRINE (THIS INCLUDES 5 BBL OVER-FLUSH)
DISPLACED 1000 GALS @ 8 BPM - VAC.
DISPLACED REMAINING 500 GALS @ 5 BPM - 450 psi.
ISIP - VAC. TOTAL LOAD - 55 BBLS.

PQOH - WITH PPI TOOL & TUBING. HALLIBURTON RIGGED DOWN & MOVED OFF LOCATION.
SWS RIGGED UP 4 1/2" CASING SWAB TOOLS TO SWAB TEST LANSING ZONES A-E & H.

SWAB TEST LANSING ZONES A,E, & H AS FOLLOWS:

1st HOUR RECOVERED 45.09 BBLS. FLUID LEVEL 1200' DOWN. NO SHOWS. SWAB FROM 2500' DN.
2nd HOUR RECOVERED 35.07 BBLS. FLUID LEVEL 1200' DOWN. NO SHOWS. SWAB FROM 2500' DN.
GETTING GOOD GAS BLOW AFTER RUNS BUT NOT ABLE TO GET GAS TEST.
SHUT DOWN FOR THE NIGHT.

11/15/93

SHUT DOWN DUE TO RAINS.

ORIGINAL

11/16/93

SICP - 660 psi, BLEW WELL DOWN. START SWABBING FOUND FL. LEV. @ 1800' DOWN.
SBHP - CALCULATES 742 psi (WITHOUT FIGURING ANY FLUID COLUMN)

SWAB TEST LANSING ZONES A,E & H AS FOLLOWS:

<u>TIME</u>	<u>MADE</u>	<u>TTL</u>	<u>FL LEV</u>	<u>MCEPD</u>	<u>REMARKS</u>
9:30	48.00	128.16	2400'	SHOW	1 HR. SWB FROM 2900'
10:30	51.00	179.16	2200'	78 MCF	1 HR. SWB FROM 3600'
11:30	46.76	225.92	2200'	64 MCF	1 HR. SWB FROM 3600'
12:30	43.34	269.26	2200'	62 MCF	1 HR. SWB FROM 3600'
1:30	45.09	314.35	2200'	62 MCF	1 HR. SWB FROM 3600'
2:30	46.76	361.11	2200'	63 MCF	1 HR. SWB FROM 3600'

SHUT DOWN FOR THE DAY.

NOTE: IT IS DETERMINED THAT THE LANSING A,E & H ARE NON-COMMERCIAL @ THIS POINT.
IT SEEMS THAT THE POSSIBILITY EXISTS THAT THERE IS SOME SORT OF COMMUNICATION
OF ZONES, DUE TO HIGH WATER PRODUCTION AND SIMILARITIES OF SWAB RATES AND
FLUID LEVELS.
DECISION MADE TO ATTEMPT A SQUEEZE JOB ON LANSING A,E & H PERFORATIONS,
THEN ATTEMPT TO RESUME LANSING COMPLETION IN THE H ZONE ONLY.

11/17/93

SHUT DOWN AS HALLIBURTON DID NOT HAVE EQUIPMENT AVAILABLE.

11/18/93

SICP - 660 psi. BLEW WELL DOWN.
HALLIBURTON ON LOCATION WITH 4 1/2" RTTS PACKER.
RIH - WITH PACKER & 115 JTS. 2 3/8" TUBING.
SET RTTS PACKER @ - 3545'
HALLIBURTON ON LOCATION TO SQUEEZE OFF LANSING PERFORATIONS A-ZONE 3588'-91'
E - ZONE 3653'-59', & H ZONE 3716'-22' WITH 50 SX COMMON WITH HALAD-9 & 50 SX COMMON
FOR WATER CONTROL.

SQUEEZE LANSING PERES A, E, & H AS FOLLOWS:

PRESSURE ANNULUS TO 500 psi, HELD O.K.
ESTABLISHED INJECTION RATE @ 4 BPM - 200 psi
MIX & PUMP 50 SX COMMON WITH HALAD - 9.
MIX & PUMP 50 SX COMMON.
DISPLACED CEMENT W/12 BBLS WATER ON VACCUUM.
NOTE: - CEMENT IS OVER-DISPLACED BY 1 BBL @ THIS POINT.
RELEASED PACKER & WASHED UP.
ORDERED OUT 75 MORE SX COMMON WITH 5# GILSONITE/SK.
MIX & PUMP 75 SX COMMON WITH 5# GILSONITE/SK.
DISPLACED WITH 4 BBLS WATER ON SLIGHT VACCUUM.
STAGED TO 2000 psi & HOLDING WITH 1 MORE BBL WATER.
NOTE: - HAVE TTL OF 150 SX IN FORMATION @ THIS POINT.
RELEASED TOOL & REVERSED OUT 25 SKS CEMENT.
RESET TOOL & RE-PRESSURED TO 2000 psi & HELD.
PULLED 10 JTS TUBING & RESET PACKER @ APPROX 3245', PRESSURED TO 500 psi SHUT TBG IN.
NOTE: - HAVE APPROX 177' CEMENT TO DRILL OUT FROM 3545'-3722'.
HALLIBURTON RIGGED DOWN & MOVED OFF LOCATION.

SWS RIGGED DOWN & MOVED OFF LOCATION TO CONTINUE COMPLETION ON BARTHALOW #2.
WILL MOVE BACK TO CONTINUE THIS COMPLETION AFTER BARTHALOW COMPLETION.

12/3/93

SWS BACK ON LOCATION. RIGGED UP D-D DERRICK.
POOH - WITH TUBING & PACKER. ALLEN DRILLING ON LOCATION WITH DRILLING EQUIP.
RIH - WITH 3 7/8" BIT & TUBING.
TAGGED TOP OF CEMENT SQUEEZE @ 3597'. HAVE 125' CEMENT TO DRILL OUT.

ORIGINAL

12/3 CONT.

DRILLED - 65' VERY HARD CEMENT FROM 3597'-3660'.
SHUT DOWN FOR THE DAY.

12/4/93

BACK ON LOCATION TO CONTINUE DRILLING.
DRILLED: - 72' VERY HARD CEMENT TO CIBP @ 3732'.
CIRCULATED CLEAN.
POOH - WITH TUBING & BIT.
SHUT DOWN FOR THE WEEKEND.

12/6/93

ELI WIRELINE ON LOCATION TO RUN CORRELATION & SONIC CEMENT BOND LOG OVER LANSING ZONES.
FOUND GOOD CEMENT BONDING ACROSS LANSING-H ZONE.
FOUND TOTAL DEPTH @ 3732'
RE-PERFORATED LANSING-H ZONE - 3716'-22' 4 SHOTS/FT. WITH EXPENDABLE GUN.
SWABBED WELL DOWN TO PBTD 3732'
MADE 1-15 MINUTE NATURAL TEST. RECOVERED SHOW OF GAS & 10' OF FLUID.
HALLIBURTON ON LOCATION WITH RTTS PACKER.
RIH - WITH RTTS PACKER & TUBING. SET PACKER @ 3700'
HALLIBURTON ON LOCATION TO ACIDIZE LANSING-H PERFS WITH 500 GALS 15% MCA.

ACIDIZED LANSING-H AS FOLLOWS:

SPOT 1/2 BBL ACID ACROSS PERFORATIONS PICKED UP & SET PACKER @ 3700'.
PUMP 500 GALS 15% MCA.
LOAD HOLE WITH 3 BBLs FIELD BRINE.
PRESSURE TO 650 psi IN INTERVALS FELL SLOWLY TO 50 psi.
START DISPLACING ACID @ 1/4 BPM 150 psi TO VAC.
DISPLACED REMAINING ACID @ 3 1/2 BPM 100 psi TO 50 psi.
ISIP - VAC. TOTAL LOAD - 30 BBLs.

SWS STARTED SWAB TESTING @ 2:00 P.M. FOUND FLUID LEVEL @ 1600' DOWN.
3:00 RECOVERED 21.71 BBLs. FLUID LEVEL - 1900' DOWN. GAS TEST 12 MCFPD.
4:00 RECOVERED 12.00 BBLs. FLUID LEVEL - 1900' DOWN. GAS TEST 12 MCFPD.
4:30 RECOVERED 5.01 BBLs. FLUID LEVEL - 1900' DOWN. GAS TEST 12 MCFPD.

NOTE: - IT IS DETERMINED THAT LANSING-H IS NON-COMMERCIAL. IT APPEARS THAT WE HAVE COMMUNICATED ONCE AGAIN WITH LANSING-G WATER.

POOH - WITH TUBING.
SHUT DOWN FOR THE NIGHT.

12/7/93

ELI WIRELINE ON LOCATION TO SET PLUG OVER LANSING ZONES & PERFORATE.
SET CIBP (OVER ALL LANSING ZONES @ 2100'
PERFORATED HERRINGTON ZONE 1997'-1999' 4/FT. WITH EXPENDABLE GUN.
PERFORATED CRYDER ZONE 2023'-2025' 4/FT. WITH EXPENDABLE GUN.
PERFORATED WINFIELD ZONE 2050'-2053' 4/FT. WITH EXPENDABLE GUN.
NOTE: (HAD STRONG GAS TO SUFACE AFTER PERFORATING CRYDER ZONE.)

HALLIBURTON ON LOCATION WITH PPI TOOL SPACED 10' APART TO STRADDLE ZONES.
RIH - WITH PPI TOOL & TUBING.

STRADDLED WINFIELD PERFORATIONS 2050'-53'.
MADE 1 RUN WITH TUBING SWAB RECOVERED NO FLUID OR GAS.

ORIGINAL

12/7/CONT.

HALLIBURTON ON LOCATION TO ACIDIZE WINFIELD PERFS 2050'-53' WITH 500 GALS 15% MCA.

ACIDIZED WINFIELD PERES AS FOLLOWS:

PUMPED 500 GALS 15% MCA

PRESSURED TO 500 psi IN INTERVALS (AFTER HOLE LOADED @ 8.3 BBLS.) PRESS FELL TO 100 psi.

START ACID @ 1/4 BPM @ 350 psi TO VAC.

DISPLACED REMAINING ACID @ 3 BPM - VAC.

ISIP - VAC. TOTAL LOAD - 20 BBLS.

SWAB TEST WINFIELD AS FOLLOWS:

FOUND FLUID LEVEL @ 700' DOWN.

SWABBED 1 HR. RECOVERED 21.71 BBLS. LAST RUN RECOVERED 300' FLUID WITH SLIGHT GAS BLOW.

NOTE: - MOST LOAD RECOVERED WAS UNSPENT OR SLIGHTLY UNSPENT ACID.

1/2 HR. TEST RECOVERED 120' ACID WATER. SLIGHT GAS BLOW UNMEASURABLE.

NOTE: WINFIELD ZONE APPEARS TO BE UNNECONOMICAL.

STRADDLED CRYDER PERES 2023'-25' WITH PPI TOOL.

HALLIBURTON ON LOCATION TO ACIDIZE CRYDER PERFS WITH 500 GALS 15% MCA.

ACIDIZED CRYDER PERES AS FOLLOWS:

PUMPED 500 GALS 15% MCA. HOLE LOADED @ 8 BBLS.

DISPLACED 150 GALS ACID @ 1/2 BPM - 200 psi TO 150 psi.

DISPLACED REMAINING ACID @ 1 BPM - 200 psi TO 150 psi.

ISIP - 110 psi. VAC - IN 5 MINUTES.

TOTAL LOAD - 20 BBLS.

SWAB TEST CRYDER PERES AS FOLLOWS:

FOUND FLUID LEVEL @ 100' DOWN.

SWABBED 45 MINUTES RECOVERED 9.1 BBLS (LAST RUN RECOVERED 20' FLUID.)

TEST GAS FOR 1/2 HR. GAS STABILIZED @ 109 MCFPD.

MADE 1/2 HR. SWAB RUN RECOVERED .60 BBLS.

STRADDLED HERRINGTON PERFS 1997'-99' WITH PPI TOOL.

HALLIBURTON ON LOCATION TO ACIDIZE HERRINGTON PERFS WITH 500 GALS 15% MCA.

ACIDIZED HERRINGTON PERES AS FOLLOWS:

PUMPED 500 GALS 15% MCA. HOLE LOADED @ 7 BBLS.

DISPLACED 50 GALS @ 1/4 BPM @ 600 psi TO 200 psi.

DISPLACED REMAINING ACID @ 2 BPM @ 300 psi.

ISIP - 100 psi. 10 MINUTE SIP - 25 psi. TOTAL LOAD - 20 BBLS.

SWAB TEST HERRINGTON PERES AS FOLLOWS:

FOUND FLUID LEVEL @ SURFACE.

SWABBED 45 MINUTES. RECOVERED 13.36 BBLS. LAST RUN RECOVERED 200' FLUID.

TESTED GAS FOR 15 MINUTES. GAS STABILIZED @ 92 MCFPD.

1/2 HR. SWAB RUN RECOVERED 1 BBL.

LOWERED PPI TOOL & STRADDLED CRYDER PERFS TO ALLOW OVER-NIGHT SHUT IN PRESSURES ON HERRINGTON & CRYDER IN A.M.
SHUT DOWN FOR THE NIGHT.

12/8/93

SITP - 500 psi (ON CRYDER PERFS) SBHP CRYDER - 534 psi.

SICP - 480 psi (ON HERRINGTON PERFS) SBHP HERRINGTON - 512 psi.

HALLIBURTON ON LOCATION TO RE-ACIDIZED HERRINGTON & CRYDER ZONES WITH 1000 GALS 15% SGA ACID EACH.

ORIGINAL

12/8/CONT.

RE-ACIDIZED CRYDER PERES VIA TBG AS FOLLOWS:

PUMPED 1000 GALS 15% SGA ACID.

FLUSHED WITH 9 BBLS FIELD BRINE @ 2 3/4 BPM - 100 psi.

NOTE: - (AT 9 BBLS FLUSH COMMUNICATED WITH ANNULUS. HERRINGTON & CRYDER PERFORATIONS ARE COMMUNICATED.)
SHUT IN ANNULUS.

DISPLACED REMAINING 6 BBLS ACID @ 2 BPM - 300 psi.

ISIP - 70 psi. VAC - IN 4 MINUTES.

RE-ACIDIZED HERRINGTON PERES VIA CASING AS FOLLOWS:

PUMPED 1000 GALS 15% SGA VIA CASING

DISPLACED WITH 22 BBLS FIELD BRINE @ 1 1/2 BPM - 175 psi.

ISIP - 90 psi. VAC - IN 7 MINUTES.

TOTAL LOAD BOTH ACID JOBS - 85 BBLS.

POOH - WITH TUBING & PPI TOOL. HALLIBURTON RIGGED DOWN & MOVED OFF LOCATION.
SWS RIGGED TO SWAB TEST WINFIELD, CRYDER, & HERRINGTON PERFS TOGETHER VIA CASING SWAB.

SWAB TEST WINFIELD, CRYDER, & HERRINGTON AS FOLLOWS:

FOUND FLUID LEVEL @ 400' DOWN.

MADE 3 RUNS WITH CASING SWAB RECOVERED 25 BBLS WELL KICKED OFF FLOWING.

FLOWED FOR 1 1/2 HRS. RECOVERED 17 BBLS.

MADE 1 RUN OFF BOTTOM RECOVERED 500' FLUID & VERY STRONG GAS.

TEST GAS FOR 1/2 HR. GAS MEASURED 662 MCFPD.

MADE 1-30 MINUTE SWAB RUN RECOVERED 250' FLUID.

RIGGED TO RUN TUBING BUT NEED KILL TRUCK.

SHUT DOWN FOR THE NIGHT.

12/9/93

SICP - 500 psi. SBHP - CALCULATES 534 psi.

GREAT PLAINS FLUID SERVICE ON LOCATION WITH HIGH PRESSURE TRUCK.

KILLED WELL WITH 40 BBLS LEASE WATER.

RAN TUBING AS FOLLOWS:

MUD ANCHOR X 2 3/8"	-----15.00'
SEATING NIPPLE X 2 3/8"	-----1.10'
68 JTS. USED TESTED & DRIFTED 2 3/8"	-----2070.00'
K.B. (9' LESS 3' ABOVE G.L.)	-----6.00'
TUBING SET @	-----2092.10'
SEATING NIPPLE SET @	-----2077.10'

TAGGED TOTAL DEPTH @ 2100' PICKED UP & SET TUBING 8' OFF BOTTOM.
RIGGED TO RUN PUMP & RODS.

RAN PUMP & RODS AS FOLLOWS:

2" X 1 1/2" X 10' RWTC WITH 6' GAS ANCHOR	-----12.00'
2' X 3/4" ROD SUB	-----2.00'
81-3/4" RODS USED	-----2025.00'
6', 6', 2' X 3/4" ROD SUBS	-----14.00'
1 1/4" X 16' POLISHED ROD	-----16.00'
PUMP SET @	-----2077.10'

CLAMPED RODS OFF. SWS RIGGED DOWN & MOVED OFF LOCATION.

DAKOTA DIRT ON LOCATION WITH CAT. BUILT PUMPING UNIT GRADE TO WEST OF WELL.
BULLSEYE ROUSTABOUT ON LOCATION WITH PUMPING UNIT & ENGINE FROM THOMPSON #2.
SET CABOT - 80 UNIT SERIAL # D801436 WITH CONTINENTAL C-66 ENGINE.

ORIGINAL

12/9 CONT.

SIROKY ON LOCATION & STRUNG 72 JTS. 2 3/8" TUBING FOR GAS LINE TO KLEIN-C WELL.
GAS LINE = 2232'.
MILLER ROUSTABOUTS ON LOCATION & STARTED HOOKING UP WELL HEAD.
DITCHED IN GAS LINE.
STARTED SCREWING GAS LINE TOGETHER.

12/10/93

MILLER BACK ON LOCATION & FINISHED GAS LINE & WELL HEAD HOOK-UP.
DITCHED IN FLUID LEAD LINE . TIED INTO KLEIN #2 LEAD LINE TO NORTH OF WELL.
PUT WELL IN SERVICE.

END OF REPORT

BRAD SIROKY