

15-175-20679-0001

34-32s-33w

LEMERT #1 0WW0 1
SET & CEMENT

IND

OIL PRODUCERS, INC. OF KANSAS
SET & CEMENT PRODUCTION CASING

ORIGINAL

WELL - LEMERT #1 0WW0

LEGAL - C/SW/SW of SEC. 34-32s-33w OF SEWARD CO., KS

API # - 175-20679-00-01

G.L. - 2738'

K.B. - 10' ABOVE G.L. @ 2748'

SURFACE CSN - 8 5/8" @ 1519'

RTD - N/A

LTD - 2890'

CASING ON LOCATION - 4 1/2" 10.5# R-3 NEW 67 JTS. (2879.91')

CASING RAN - 66 JTS, 4 1/2" 10.5# NEW R-3 (2836.91')

CASING CHARGED - ALL CHARGED TO SMITH SUPPLY (OPIK STOCK)

CASING SET - 2836.91'

D.V. TOOL SET @ - NONE

SHOE JT. - 42.92'

TOP INSERT - 2793.99'

CENTRALIZERS SET @ - 2794-2665-2493-2320-2148'

BASKETS SET @ - NONE

FLUSH - 6 BBLS H2O SPACER, 6 BBLS SUPER FLUSH, 6 BBLS H2O SPACER, 6 BBLS MUD FLUSH

CEMENT - 335 SXS MIDCON II, 2% CC 1/4 # FLOCELE / 165 SXS PREMIUM H 5% CALCELE, 1/4#
FLOCELE, 10% SALT, 5# GILSONATE, 25% D-AIR

PACKER SHOE SET @ - 2836'

DRILLING CONTRACTOR - VAL DRILLING RIG #2

CEMENT CONTRACTOR - HALLIBURTON

PLUG DOWN @ - 9:45 AM 11/05/03

NOTES - HAD GOOD CIRCULATION THROUGHOUT JOB. PUMP PLUG DOWN. PRESSURE TO 1800#. HELD OKAY. CEMENT DID CIRC. TO SURFACE.

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ORIGINAL

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INITIAL COMPLETION REPORT

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PRODUCTION CSN - 4 1/2" 10.5# NEW R-3 @ 2836.91' w/ 335 SXS MIDCON, 165 SXS PREMIUM

TOP OF CEMENT - 500' w/ EXCELLENT BONDING ACROSS PAY INTERVALS

PBTD - 2783' / CEMENT RETAINER 2598' / BY TALLY 2595' 12/15/03

<u>PERFORATIONS</u> -	<i>HERINGTON</i> -	2491-2494'	2/FT	12/08/03	
	<i>KRIDER</i> -	2555-2565'	2/FT	12/08/03	
	<i>KRIDER</i> -	2522-2529'	2/FT	12/08/03	
	<i>WINFIELD</i> -	2613-2620'	1/FT	12/04/03	SQZ'D 12/05/03

TUBING IN HOLE - M.A. S.N. 81 JTS 2 3/8" (2554.06')

TUBING SET @ - 2577.16'

AVERAGE TBG JT. - 31.53'

PUMP RAN - 2' x 1 1/2" x 12' RWB HOLLOW ROD w/ 6' GAS ANCHOR.

RODS RAN - PUMP 2 x 3/4" SUB, 101 3/4" RODS, P.R. & LINER

PUMP SET @ - 2562.16'

PUMPING UNIT - 114 PARKERSBURG S.N. #24385E7 - RATIO - 22.2 TO 1 - STROKE = 42"

PRIME MOVER - C-66

SURFACE EQUIPMENT - 24" x 5' 250# NEW VERTICAL GAS SEPARATOR USING HANSON #1 WATER TANK, 12' x 10' 200 BBL OPEN TOP FIBERGLASS WATER TANK.

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12/04/03

COMANCHE WELL SERVICE ON LOCATION. RIG UP D-D DERRICK TO COMPLETE NEW GAS WELL.

ELI WIRELINE ON LOCATION TO RUN CORRELATION AND SONIC CEMENT BOND LOG.

FOUND TTL DEPTH @ - 2783'

FOUND TOP OF CEMENT - 500' FROM SURFACE w/ EXCELLENT BONDING ACROSS PAY INTERVALS.

COMANCHE RIGGED TO SWAB 4½" CSN. SWAB CSN DOWN TO 2200' FROM SURFACE.

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED PAY INTERVAL IN WINFIELD FORMATION UTILIZING 32 GRAM EXPENDABLE CSN GUN.

PERFORATE WINFIELD - 2613-2620' 1 SHOT/FT.

COMANCHE SWABBED 4½" CSN DOWN TO TTL DEPTH.

½ HR NATURAL TEST WINFIELD - RECOVERED 0 BBLs, NO GAS.

½ HR NATURAL TEST WINFIELD - RECOVERED 0 BBLs, NO GAS.

ACID SERVICE ON LOCATION TO ACID STIMULATE WINFIELD w/ 500 GALS 15% DSFE ACID.

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ACIDIZE WINFIELD PERFORATIONS AS FOLLOWS:

PUMP 500 GALS DSFE 15% ACID.

LOAD HOLE w/ 32 BBLs, 2% KCL WATER.

PRESSURE TO 1200# BROKE BACK QUICKLY.

DISPLACE ACID @ 4 BPM - 300#

ISIP - VACUUM

TTL LIQUID LOAD TO RECOVER - 54 BBLs.

COMANCHE RIGGED TO SWAB TEST WINFIELD AFTER ACID.

SWAB TEST WINFIELD PERFORATIONS AS FOLLOWS:

SWAB CSN DOWN TO TTL DEPTH. - RECOVERED 38 BBLs.

½ HR SWAB TEST - REC. 3.41 BBLs, TEST GAS @ 6 MCF

½ HR SWAB TEST - REC. 2.36 BBLs, TEST GAS @ 5 MCF

½ HR SWAB TEST - REC. 1.57 BBLs, TEST GAS @ 5 MCF

½ HR SWAB TEST - REC. 1.57 BBLs, TEST GAS @ 5 MCF

SHUT WELL IN. SHUT WELL DOWN.

12/05/03

COMANCHE WELL SERVICE ON LOCATION TO CK. PRESSURE ON CSN.

SICP - 69#

MADE SWAB RUN. RECOVERED 6 BBLs. SALTED.

DECIDED THIS ZONE TO BE NON-COMMERCIAL DUE TO LACK OF NAT. GAS AND TOO MUCH WATER.

ELI WIRELINE AND T.R. SERVICE ON LOCATION TO SET 4½ CEMENT RETAINER TO SQUEEZE WINFIELD PERFS THROUGH.

SET CEMENT RETAINER - 2600'

COMANCHE RIGGED TO RUN 2 3/8" TUBING w/ CEMENT RETAINER STINGER.

RIH - w/ TUBING AND CEMENT RETAINER STINGER.

STING INTO RETAINER AT 2600'.

ACID SERVICE ON LOCATION TO SQUEEZE WINFIELD PERFORATIONS w/ 150 SXS OF COMMON CEMENT.

12/05/03
CONT.

SQUEEZE WINFIELD PERFORATIONS AS FOLLOWS:

ORIGINAL

LOAD ANNULUS & PRESSURE TO 500#. HELD OKAY.
ESTABLISH INJ. RATE VIA TUBING @ 2 BPM - 400#.
MIX AND PUMP 100 SXS COMMON CEMENT w/ 2% CC.
DISPLACE 97 SXS CEMENT INTO PERFS @ 2 BPM - VAC TO 900#.
NOTE: OBSERVED RUNNING SQUEEZE, HOLDING 900#. PULL OUT
OF STINGER, REVERSE CIRCULATE 3 BBLS OUT AND
CIRCULATE HOLE CLEAN.
POOH - w/ TUBING AND STINGER.

SHUT DOWN FOR WEEKEND.

12/08/03

COMANCHE WELL SERVICE ON LOCATION. RIGGED TO SWAB 4 1/2" CASING.
SWAB CASING DOWN TO 2200' FROM SURFACE.

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED PAY INTERVALS IN
HERINGTON AND KRIDER FORMATIONS UTILIZING 32 GRAM EXPENDABLE
CASING GUNS.

<u>PERFORATE:</u>	<i>KRIDER</i> - 2555-2565'	2/FT
	<i>KRIDER</i> - 2522-2529'	2/FT
	HERINGTON - 2491-2495'	2/FT

FOUND TTL DEPTH @ - 2598'

COMANCHE SWABBED CSN DOWN TO TTL DEPTH.
1/2 HR NAT. SWAB TEST - REC. 0 BBLS, NO SHOW OF GAS.

ACID SERVICE ON LOCATION TO ACID STIMULATE HERINGTON AND KRIDER
FORMATIONS w/ 2500 GALS 15% DSFE ACID w/ 70 BALL SEALERS.

ACIDIZE HERINGTON AND KRIDER PERFORATIONS AS FOLLOWS:

PUMP 500 GALS 15% DSFE ACID.
PUMP 2000 GALS 15% DSFE ACID w/ 70 BALL SEALERS
SPACED EQUALLY.
PRESSURE TO 1850#, BROKE BACK QUICKLY.
DISPLACE 500 GALS @ 7BPM - 200#.
DISPLACE 2000 GALS w/ BALLS @ 7 BPM TO 120# TO 1150.
GOOD BALL ACTION.
ISIP - 250#
TTL LIQUID LOAD = 100 BBLS.

COMANCHE RIGGED TO SWAB TEST HERINGTON AND KRIDER PERFS AFTER
ACID.

SWAB TEST HERINGTON AND KRIDER PERFORATIONS
AFTER ACID AS FOLLOWS:

SWAB CSN DOWN TO TTL DEPTH. REC. 46.20 BBLS.		
<u>1/2 HR SWAB TEST</u> - REC. 1.83 BBLS	TEST GAS @	11.6 MCF
<u>1/2 HR SWAB TEST</u> - REC. 2.10 BBLS	TEST GAS @	8.3 MCF
<u>1/2 HR SWAB TEST</u> - REC. 1.83 BBLS	TEST GAS @	11.6 MCF

ACID SERVICE AND GORE NITROGEN ON LOCATION TO FRACTURE STIMULATE
ALL HERINGTON AND KRIDER PERFS w/ 22,000 GALS 70% NITROGEN FOAM AND
31,000# 12/20 BRADY SAND, TAILING IN w/ 4,000# RESONATED AC-FRAC SAND TO
MINIMIZE SAND PRODUCTION.

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ORIGINAL

12/08/03
CONT.

FRACTURE HERINGTON AND KRIDER PERFORATIONS AS FOLLOWS:

PUMP 7,000 GALS 70% N2 FOAM, EST. INJ. RATE @ 17 BPM - 900#.
PUMP 4,000 #12/20 SAND @ 1 PPG (4,000 GALS N2 FOAM) @ 17 BPM - 1150#.
PUMP 12,000# 12/20 SAND @ 2 PPG (6,000 GALS N2 FOAM) @ 17 BPM - 1100#.
PUMP 11,001# 12/20 SAND @ 3 PPG (3,667 GALS N2 FOAM) @ 17 BPM - 1150#.
PUMP 3,999# 12/20 AC-FRAC SAND @ 3 PPG (1333 N2 FOAM) @ 17 BPM - 1150#.
FLUSH SAND TO PERFS w/ 1850 GALS N2 FOAM @ 17 BPM 1200#.
ISIP - 1100#
TTL LIQUID LOAD TO RECOVER = 154 BBLs.

SHUT WELL IN FOR 24 HRS.

12/09/03

COMANCHE WELL SERVICE ON LOCATION TO CK PRESSURE ON CASING.
SICP - 185#.
OPEN WELL TO PIT. LET FLOW TO PIT ALL NIGHT. FLOWING BACK N2 FOAM AND
NATURAL GAS @ A RATE OF 653 MCF.

SHUT DOWN FOR NIGHT.

12/10/03

COMANCHE WELL SERVICE ON LOCATION. WELL STILL FLOWING TO PIT,
NATURAL GAS AND FRAC WATER. COMANCHE RIGGED TO FLOW TEST
HERINGTON AND KRIDER PERFS AFTER FRAC.

FLOW TEST HERINGTON AND KRIDER
PERFORATIONS AFTER FRAC AS FOLLOWS:

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1 HR FLOW TEST - REC. 1.05 BBLs FLUID. TEST GAS @ 480 MCF.
1 HR FLOW TEST - REC. 1.05 BBLs FLUID. TEST GAS @ 511 MCF.
1 HR FLOW TEST - REC. 1.05 BBLs FLUID. TEST GAS @ 411 MCF.
1 HR FLOW TEST - REC. 1.05 BBLs FLUID. TEST GAS @ 332 MCF.
1 HR FLOW TEST - REC. 1.05 BBLs FLUID. TEST GAS @ 332 MCF.
1 HR FLOW TEST - REC. 1.05 BBLs FLUID. TEST GAS @ 374 MCF.
1 HR FLOW TEST - REC. 1.05 BBLs FLUID. TEST GAS @ 344 MCF.

COMANCHE RIGGED DOWN FLOW LINE. TOOK OFF ACID SERVICE FRAC.
INSTALLED COMANCHE'S 5½ MASTER VALVE AND SWAB EQUIPMENT.
MADE SWAB RUN w/ JUST SWAB STEM TO CK SAND FILL-UP. HAD 21' OF SAND
FILL-UP.

COMANCHE RIGGED TO SWAB TEST HERINGTON AND KRIDER PERFS AFTER
FLOW TESTING.

SWAB TEST HERINGTON AND KRIDER
PERFORATIONS AFTER FRAC AS FOLLOWS:

½ HR SWAB TEST - REC. 1.56 BBLs TEST GAS @ 370 MCF.
½ HR SWAB TEST - REC. 1.56 BBLs TEST GAS @ 370 MCF.

RUN SWAB STEM. CHECK SAND FILL-UP. HAD APPROX. 23' OF FILL-UP.
SHUT WELL IN. SHUT DOWN.

12/11/03

COMANCHE WELL SERVICE ON LOCATION TO CHECK PRESSURE ON CSN.
SICP - 148#
SIBHP - CALCULATES 209# w/ 100' OF FLUID IN HOLE.

COMANCHE RIGGED TO SWAB TEST HERINGTON AND KRIDER PERFS AFTER
FRAC.

12/11/03
CONT.

SWAB TEST HERINGTON AND KRIDER
PERFORATIONS AFTER FRAC AS FOLLOWS:

ORIGINAL

<u>½ HR SWAB TEST</u> - REC. 0.525 BBLs	TEST GAS @ 756 MCF
<u>½ HR SWAB TEST</u> - REC. 1.05 BBLs	TEST GAS @ 756 MCF
<u>½ HR SWAB TEST</u> - REC. 1.05 BBLs	TEST GAS @ 754 MCF
<u>½ HR SWAB TEST</u> - REC. 2.10 BBLs	TEST GAS @ 599 MCF
<u>1 HR SWAB TEST</u> - REC. 1.31 BBLs	TEST GAS @ 599 MCF
<u>1 HR SWAB TEST</u> - REC. 1.31 BBLs	TEST GAS @ 599 MCF
<u>1 HR SWAB TEST</u> - REC. 1.57 BBLs	TEST GAS @ 599 MCF

RUN IN HOLE w/ JUST CSN SWAB STEM TO CHECK SAND FILL-UP.
HAD APPROX. 23' OF SAND FILL-UP.

SHUT WELL IN. SHUT DOWN FOR NIGHT.

12/12/03

COMANCHE WELL SERVICE ON LOCATION w/ T.R. SERVICE AND NICHOLS FLUID SERVICE TO KILL WELL w/ 2% KCL WATER, THEN RUN BULLDOG HYDROSTATIC BAILER TO CLEAN FRAC SAND FROM WELL BORE.

COMANCHE BLEW CSN DOWN TO PIT. RIG NICHOLS HIGH PRESSURE PUMP TRUCK TO CSN TO KILL WELL. NICHOLS H.P. PUMP WAS FROZEN UP. TWISTED OFF DRIVE SHAFT. WAIT 3 HRS ON REPLACEMENT H.P. TRUCK. RIGGED NICHOLS H.P. TRUCK TO CSN. KILL WELL w/ 50 BBLs 2% KCL. RIG OFF MASTER GATE. RIG ON TUBING HEAD. RIG NICHOLS H.P. TRUCK TO TRICKLE WATER DOWN CSN WHILE TRIPPING BAILER.

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T.R. SERVICE TOOL HAND RIGGED BULLDOG BAILER.

RIH - w/ TUBING AND BAILER.

CLEAN OUT 24' OF SAND TO TTL DEPTH @ 2598'.

POOH - w/ TUBING AND BAILER.

LEAVE WELL OPEN TO PIT. SHUT DOWN FOR WEEKEND.

12/15/03

COMANCHE WELL SERVICE ON LOCATION. RIG TO RUN PRODUCTION TUBING IN HOLE FOR PRODUCTION.

RUN PRODUCTION TUBING AS FOLLOWS:

2 3/8" MUD ANCHOR	15.00'
2" SEATING NIPPLE	1.10'
81 JTS 2 3/8" TUBING	2554.06'
KB (10 < 3)	7.00'
TUBING SET AT	2577.16'
SEATING NIPPLE SET AT	2562.16'

TAG BOTTOM w/ TUBING @ 2595'. PICK UP AND LAND TUBING 18' OFF BOTTOM.

COMANCHE RIGGED TO RUN BOTTOM HOLE PUMP AND RODS.

RUN BOTTOM HOLE PUMP AND RODS AS FOLLOWS:

2' x 1½" x 12' RWB HOLLOW ROD w/ 6' GAS ANCHOR	14.00'
2' x ¾" ROD SUB	2.00'
101¾" RODS	2525.00'
1¼" POLISHED ROD w/ 7' LINER	16.00'
PUMP SET @	562.16'

SPACED OUT RODS, LONG-STROKED. HAD GOOD PUMP ACTION. CLAMPED OFF RODS. COMANCHE RIGGED DOWN. MOVED OFF LOCATION.

ORIGINAL

LEMERT #1 OWWO 6
INITIAL COMPLETION

12/23/03

SHAWNEE LEASE SERVICE, SIOUX TANK WINCH TRUCK AND KANSA DIRT ON LOCATION. BUILD GRADE AND SET PUMPING UNIT. SHAWNEE PLUMB IN WELL HEAD, PLUMB IN NEW 24" x 5' 250# VERTICAL GAS SEPARATOR BESIDE PUMPING UNIT. SEPARATOR PURCHASED NEW FROM ALPHA SERVICE IN LIBERAL. SHAWNEE THEN DITCHED AND LAID 6,000' OF 2" SCH-60 PVC SALT WATER LINE AND PLUMBED WATER LINE INTO HANSON #1 WATER TANK, THEN LAID 6,000' OF 3" POLY PIPE IN SAME DITCH. RAN POLY TO DEDUCT METER. SET METER AT HANSON #1. DUKE MASTER METER PLUMBED MASTER METER TO DEDUCT METER. WORK SHOULD BE COMPLETED BY JAN. 2/04 AND PUT IN SERVICE AT THIS TIME.

END OF REPORT
TIM THOMSON

NOTE: BEFORE COMPLETION OF THIS REPORT. WELL HAS BEEN PUT IN SERVICE. WELL PRODUCING 190 MCF AND 20 BBLs SW PER DAY.

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