

ORIGINAL SIDE ONE

*Plugged*

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
RECOMPLETION FORM  
ACO-2 AMENDMENT TO WELL HISTORY

API NO. 15- 189-21094 -00-00

County STEVENS

C NW Sec. 19 Twp. 33S Rge. 35 X East West

3963.6 Ft. North from Southeast Corner of Section

3809.8 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Lease Name NIX #3 UNIT Well # 2

Field Name HUGOTON FIELD AREA

Producing Formation GLORIETTA (DISPOSAL INTERVAL)

Elevation: Ground 3000 KB 3011

Operator: License # 5208

Name: MOBIL OIL CORPORATION

Address: 2319 NORTH KANSAS

City/State/Zip: LIBERAL, KS 67901

Purchaser:

SERVICE WELL - SWDW

Operator Contact Person:

Phone: (316) 626-1160 RAE KELLY

Designate Type of Original Completion

New Well  Re-Entry  Workover

Date of Original Completion 8/1/87

Name of Original Operator MOBIL OIL CORPORATION

Original Well Name NIX #3 UNIT WELL #2

Date of Recompletion:

8/7/90

9/4/90

Commenced

Completed

Re-entry

Workover

Designate Type of Recompletion/Workover:

Oil  SWD  Temp. Abd.  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

Deepening  Re-perforation  
 Plug Back  PBTD  
 Conversion to Injection/Disposal

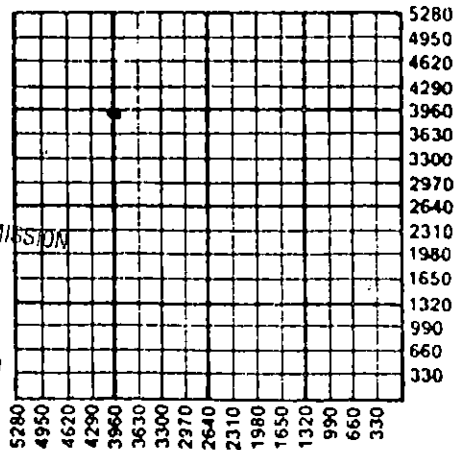
Is recompleted production:

Commingled Docket No. \_\_\_\_\_  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (Disposal or Injection?)  
Docket No. D-25,924

RECEIVED  
STATE CORPORATION COMMISSION

SEP 11 1991

CONSERVATION DIVISION  
Wichita, Kansas



K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received *Log - 8/2/90*  
C  Drillers Timelog Received  
  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

*if one*

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the recompletion of any well. Rules 82-3-107 and 82-3-141 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of any additional wireline logs and driller's time logs (not previously submitted) shall be attached with this form. Submit ACO-4 or ACO-5 prior to or with this form for approval of commingling or dual completions. Submit CP-1 with all plugged wells. Submit CP-111 with all temporarily abandoned wells. NOTE: Conversion of wells to either disposal or injection must receive approval before use; submit form U-1.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature R. Kelly Title ENGINEERING TECHNICIAN Date 9-10-91

Subscribed and sworn to before me this 10<sup>th</sup> day of September 19 91

Notary Public Sharon A. Cook Date Commission Expires 10-1-94



SIDE TWO

Operator Name MOBIL OIL CORPORATION Lease Name NIX #3 UNIT Well # 2

Sec. 19 Twp. 33S Rge. 35  East  
 West

County STEVENS

RECOMPLETION FORMATION DESCRIPTION

Log  Sample

Name: GLORIETTA Top: 1228 Bottom: 1375

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input checked="" type="checkbox"/> Perforate					
<input checked="" type="checkbox"/> Protect Casing	<u>0</u>	<u>1710</u>	<u>CLASS H</u>	<u>550 SX</u>	
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					
<input checked="" type="checkbox"/> <u>PROTECT FRESH WATER</u>					

Shots Per Foot	PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)
	Specify Footage of Each Interval Perforated		
<u>4 SPF</u>	<u>1230 - 1330</u>		<u>ACIDIZED W/5000 GALS OF 15% FE ACID</u>

PBTD 1710 Plug Type CIBP @ 2880' CEMENT RETAINER AT 1710'

TUBING RECORD

Size 2 7/8" Set At 1170' Packer At 1170' Was Liner Run Y  X N

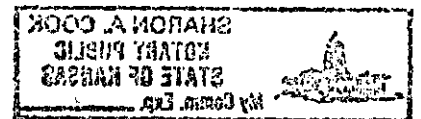
Date of Resumed Production, Disposal or Injection WILL COMMENCE DISPOSAL ON APPROVAL

Estimated Production Per 24 Hours Oil \_\_\_\_\_ Bbls. Water \_\_\_\_\_ Bbls. Gas-Oil-Ratio \_\_\_\_\_

Gas \_\_\_\_\_ Mcf

Disposition of Gas:

Vented  Sold  Used on Lease (If vented, submit ACO-18.)



Co: J.H. Rables - Hickok  
Well File  
Regulatory

ORIGINAL

CASING MECHANICAL INTEGRITY TEST

DOCKET # D-25,924

Disposal  Enhanced Recovery:

App. C NW, Sec 19, T 33 S, R 35 X/W

Repressuring   
Flood   
Tertiary

3963.6 Feet from South Section Line  
3809.8 Feet from East Section Line

Date injection started  
API #15 - 189 21,094

Lease Nix #3 Unit Well # 2  
County Stevens STATE CORPORATION COMMISSION

Operator: Mobil Oil Corporation  
Name & Address P.O. Box 400  
Hugoton, KS 67951

Operator License # 5808  
Contact Person M.R. Schlechter  
Phone 316-544-5500  
RECEIVED SEP 17 1991  
CONSERVATION DIVISION  
Wichita, Kansas

Max. Auth. Injection Press. 0 psi; Max. Inj. Rate 1500 bbl/d;  
If Dual Completion - Injection above production Injection below production

Conductor	Surface	Production	Liner	Tubing
Size 8 5/8"	5 1/2"	Size 2 7/8"		
Set at 650'	3250'	Set at 1170'		
Cement Top 0	0	Type Steel		
" Bottom 650'	1710'			
DV/Perf. TD (and plug back) 3250 (1710) ft. depth				
Packer type Arrow AD-1 Size 2 7/8" X 5 1/2"		Set at 1170'		
Zone of injection Glorietta ft. to ft. 1230-1330		Perf. or open hole Perf.		

Type Mit: Pressure  Radioactive Tracer Survey  Temperature Survey

F I E L D D A T A	Time: Start	10 Min.	20 Min.	30 Min.	Set up 1	System Pres. during test
	Pressures:	400	400	400	Set up 2	Annular Pres. during test 400
					Set up 3	Fluid loss during test 0 bbls.

Tested: Casing  or Casing - Tubing Annulus

The bottom of the tested zone is shut in with an Arrow AD-1 packer.

Test Date 7/9/91 Using Teal Pump Company's Equipment

The operator hereby certifies that the zone between 0 feet and 1170 feet was the zone tested

Signature Title

The results were Satisfactory , Marginal , Not Satisfactory

State Agent Glenn R. Barlow Title PIRT II Witness: Yes  No

REMARKS: Initial test

Origin. Conservation Div.;  KDHE/T;  Dist. Office;  
 Computer Update

# ORIGINAL

RECEIVED  
STATE CORPORATION COMMISSION  
SUMMARY REPORT

SEP 11 1991

CONSERVATION DIVISION  
Wichita, Kansas

NIX 3-2  
ENGINEERING PROJECT  
RECOMPLET CG TO SWD WELL  
SEC 19-33-35 STEVENS CO

8/7/90 MOVED IN PATRICK WELL SERVICE AND RIG UP DERRICK. SIGN

8/8/90 ATLAS WIRELINE SERVICE ON LOCATION. RIG UP TO WELL, RAN IN GAUGE RING AND JUNK BASKET. RAN DOWN TO 3148, FL AT 2100. RAN IN 3000# CIBP AND SET AT 2880. RAN IN W/DUMP BAILER AND PLACE TWO SX OF H CMT ON PLUG. RAN IN 4" CSN GUN AND PERF., 4 SQUEEZE HOLES AT 1760'. RIG ATLAS DOWN AND RELEASED. TALLIED IN CMT RETAINER AND 92 JTS OF 2 7/8 TBG., AT 2835', HALLIBURTON ON LOC. PUMPED IN 30 BELS 9#, 36 VIS. BELL., FLUSHED W/10 BELS OF H2O. PULLED 36 JTS. TBG. LANDING, RETAINER AT 1730.26', SET RETAINER. PULLED OUT OF RETAINER, CIRCULATED HOLE CLEAN. STUNG BACK INTO RETAINER, LOADED AND PRESSURE TEST ANNULUS TO 1000#. PUMPED IN H2O AND ESTABLISHED CIRCULATION TO PIT. MIX AND PUMPED IN 400 SX OF CLASS H. HAD GOOD CIRCULATION ALL THOUGH HOLE JOB, BUT NEVER GOT CMT TO SURFACE. PUMPED SUFFICIENT CMT TO COVER BACK SIDE. MUST HAVE BEEN SOME BIG VOIDS BETWEEN 5.5 AND OPEN HOLE. DISPLACE TBG W/H2O, LEAVING 1/2 BEL IN TBG., PULLED OUT OF RETAINER, PULLED 1JT, ALLOWING 1/2 BEL OF CMT TO SETTLE ON TOP OF RETAINER. REVERSED OUT AND CLEANED UP. RELEASED HALLIBURTON. PULLED 2 7/8 TBG. SIGN

8/9/90 ATLAS WIRELINE SERVICE ON LOCATION. RAN IN W/TEMPERATURE SURVEY LOG, FL AT 180'. APPEARS TOP OF CMT IS AT 450'+-. CMT SUFFICIENTLY IN 8 5/8. SHUT DOWN TO ALLOW CMT TO CURE.

8/10/90 ATLAS WIRELINE ON LOC. ENGINEER STAFF SUE MANN ON LOC FOR COMPANY. RIG UP AND RAN IN GR/CCL/CBL. RAN LOGS FROM 1693 TO 185. HAD GOOD CMT BOND TO 670, DID HAVE CMT UP IN 8 5/8 BUT SHOWED TO HAVE A POOR BOND. PRESSURED UP ON CNS TO 1500# AND RERAN CBL, SOME IMPROVEMENTS, BUT NOT MUCH. RAN IN W/4" CSN SQUEEZE GUN, SHOT 4 HOLE AT 634. PUMPED IN H2O AND TRIED TO ESTABLISH CIRCULATION TO PIT, FEELS LIKE ITS TRYING, FANT BLOW. WILL EITHER CIRCULATED CMT OR SQUEEZE TOMORROW. SIGN

8/11/90 HALLIBURTON ON LOCATION. RIG UP TO 5.5 CSN., PUMPED IN H2O TO ESTABLISH CIRCULATION AND RATE. MIX AND PUMPED IN 150 SX OF CLASS H, W/2% CC AND 1 1/2# FLOCELE PER SX. PUMPED AND DISPLACED W/28.3 BELS OF H2O. 1000# SQUEEZE. DIDN'T CIRCULATED TO SURFACE, MUST HAVE GOOD BRIDGE IN 8 5/8. LEFT WELL SHUT IN W/500#. SIGN

8/13/90 HOMCO ON LOCATION. RAN IN W/4.75 BIT, 4 DRILL COLLORS, ON 2 7/8 TBG. TAG CMT AT 534. DRILLED UP 100' OF HARD CMT. PRESSURE TESTED CSN AND SQUEEZE HOLE TO 1000#. PULLED 4 JTS AND SHUT DOWN.

8/14/90 RAN TBG STRING ON DOWN TO 1701+-, CIRCULATED HOLE CLEAN, RETESTED CSN AND SQUEEZE HOLE TO 1000#, HOLDING GOOD. PULLED TBG, DRILL COLLOR AND BIT. ATLAS PERFORATORS ON LOCATION. RAN IN WITH 20', 4" CSN GUN, GOT DOWN TO 690, GUNS HANGING UP. (NOTE: DONE BEEN THROUGHT, CSN WITH BIT, SCRAPER, GAUGE RING, JUNK BASKET, CIBP, AND CMT RETAINER. CAN'T FIGURE OUT WHY GUN WON'T GO THOUGH, MUST HAVE A DOG LEG IN CSN, CAUSING 20' LONG GUNS NOT TO GO THOUGH.) RERAN CSN SCRAPER TO MAKE SURE WE DIDN'T HAVE SOMETHING IN WAY, FOUND NONE.

# ORIGINAL

BROKE 20' GUNS INTO TWO 10' GUN AND RETRIED, WENT IN AND OUT OK. WILL HAVE TO RE CHARGE GUN FOR 10' INTERVALS. SION

8/15/90 ATLAS PERFORATORS ON LOCATION. RAN IN W/4" CSN GUNS AND PERF. THE GLORETTA IN THE FOLLOWING INTERVALS 1330 TO 1230, 100' OF HOLE 4 SPF. 400 HOLES. RAN IN AD-1 PKR ON 38 JTS OF TEG, SET PKR. HALLIBUTON ON LOCATION. LOADED AND PRESSURED ANNULUS TO 500#. RIG UP TO TEG, ACIDIZED WELL W/5000 GALS OF 15% FE ACIDE AND ADDITIVES, DROPPED 600 BALL SEALS THOUGH OUT JOB. LOADED HOLE STEPED RATE UP TO 6 BELS A MIN AT 400#. DID SEE SOME BALL ACTION, BUT NEVER HAD 100% BALL OFF. FLUSHED W/50 BELS OF LEASE WATER. WELL ON GOOD VACUUM AT SHUT DOWN. RELEASE PKR AND PULLED. RAN IN WITH BALL KNOCKER ON SANDLINE TO MAKE SURE BALL WERE OFF PERFS. GOT DOWN TO 1240+-, COULDN'T WORK ON DOWN. MCBRIDE WIRELINE SERVICE ON LOCATION, RAN IN WITH SINKER BAR TO CHECK TD., ALSO COULD ONLY GET DOWN TO 1240. ASSUMING WE HAVE FILL UP, RAN BACK IN WITH NOTCH COLLOR ON TEG., LAND ABOVE PERFS., SION

8/16/90 RAN TEG DOWN TO 1240 AND TO 1566, 236' BELOW PERFS. PUMPED IN 80 BELS., WELL TAKING FLUID. FOCH W/TEG AND NOTCH COLLOR. RAN BACK IN WITH BALL KNOCKER ON SANDLINE, STACK OUT AGAIN AT 1240, RERAN WIRELINE, ALSO STACK OUT AT 1240. COULD SAND CAME IN BEHIND US. RERAN NOTCH COLLOR AND TEG., WENT THROUGH 1240 AND ON DOWN BELOW PERFS WITH NO TROUBLE. NOTE: WONDER WHY TEG WILL FALL THROUGH AND 1 1/4 SINKER BAR WON'T. RIG UP 3 1/2 SAND PUMP WITH 4 3/4 SKIRT. WENT ON DOWN TO 1370+-, 40' BELOW PERFS, CAME OUT W/FRAC BALL AND SAND. REMOVED 4 3/4 SKIRT, NOT WANT TO GET SAND PUMP HUNG UP GOING THROUGH PERFS. RECOVERED 65 GALS OF GLORETTA SAND. SAND CONTINUE COME IN WHILE SAND PUMPING. LAST TD AT DAY END 1240'+-. LOST 130' OF HOLE THROUGH OUT DAY. SION

8/17/90 HOMCO DOESN'T HAVE FOAM UNIT AVAILABLE TODAY. SION

8/18/90 HOMCO ON LOCATION W/FOAM UNIT. RAN IN NOTCH COLLOR ON TEG. STRING. RAN DOWN TO 1175 ESTABLISHED CIRCULATION TO PIT, CARRYING LOTS OF SAND AND WATER TO PIT. CIRCULATED TO 1262', RECOVERING LOTS OF SAND AND WATER. PULLED UP OUT OF PERFS AND SHUT DOWN.

8/20/90 RAN BACK DOWN AND TAG UP AT 1237'. LOST 25' OF HOLE OVER WEEKEND. STARTED CIRCULATING TO PIT, CARRYING LOTS OF SAND AND WATER. CIRCULATED TO TD., SAT ON BOTTOM AND CIRCULATED HOLE FOR A GOOD 8 HRS., STILL CARRYING LOTS OF SAND AND WATER. PULLED TEG ABOVE PERFS AND SHUT DOWN.

8/21/90 RAN BACK DOWN TO CHECK FOR FILL, TAG UP AT 1270'+-, 60' OF PERF COVERED. STARTED CIRCULATION, RAN DOWN TO TD, STAYED ON BOTTOM AND CIRCULATED FOR 8 HRS. HOLE SEEMS TO BE CLEANING. FOCH W/TEG AND NOTCH COLLOR. SION

8/22/90 RAN IN WITH SAND PUMP. TAG UP AT 1151', 79' OF SAND COVERING TOP PERFS. RAN IN W/NOTCH COLLOR ON TEG. TAG UP, CIRCULATED TO 1250 AND LOST CIRCULATION, PERFS TAKING FLUID ON VACUUM. PULLED OUT OF PERFS, SHUT DOWN FOR AN HOUR RAN BACK DOWN AND TAG UP SAME. CAN'T CIRCULATE, PULLED TEG. RAN BACK IN W/SAND PUMP, TAG UP AT 1215, LOST 35' OF HOLE. RECOVERED 30 GAL. OF SAND. LAST TD AT 1240'. GOING TO RIG DOWN DERRICK AND GO DO A FRAC JOB. WILL ALLOW FORMATION TO SETTLE DOWN, MAYBE WE CAN COME BACK AND SAND PUMP A LITTLE EASIER AND NOT LOSE SO MUCH GROUND. RAN TEG BACK IN AND CAME OUT LAYING DOWN. CLEANED LOCATION RIG DOWN AND MOVED.

# ORIGINAL

8/28/90 MOVED IN BORDER-LINE WELL SERVICE AND RIG UP. RIG UP SAND PUMP, RAN IN AND TAG UP AT 1237'+-. 7' OF PERFS OPEN. TOTAL SAND RECOVERED 146 GALS., LAST TD AT 1249, MADE 12' OF HOLE. SIDN

8/29/90 RAN IN SAND PUMP, TAG UP AT 1237'+-, LOST 12' OVERNIGHT. TOTAL SAND RECOVERED 308 GALS. MADE TOTAL OF 88 RUNS. LAST TD AT 1260. SIDN

8/30/90 RAN IN W/SAND PUMP, TAG UP AT 1240'+-, LOST 20 OVER PREVIOUS DAY. MADE A TOTAL OF 95 RUNS, RECOVERED 315 GALS. LAST TD AT 1260. SIDN

8/31/90 RAN IN W/SAND PUMP, TAG UP AT 1246'+-, LOST 14' OVER NIGHT. MADE 100 RUNS, RECOVERED 340 GALS OF GLORETTA SAND. LOST TD 1260'. SHUT DOWN FOR HOLIDAY WEEKEND.

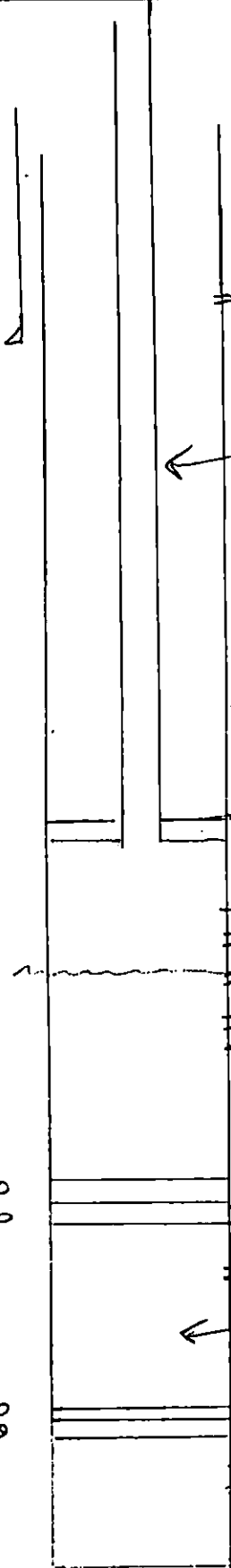
9/4/90 RAN IN W/SAND PUMP, TAG UP AT 1240', LOST 20' OF HOLE OVER HOLIDAY. SAND PUMPED 35 GALS., SHOULD HAVE MADE 35' OF HOLE IN 5.5 CSN, SAND CONTINUES TO COME IN, BUT IT SEEMS THE UPPER 10' OF PERFS STAYS OPEN. AFTER CONVERSATION WITH FOREMEN MIKE SCHECHTER AND ENGINEER STEVE MAPLES IT WAS DECIDED TO RUN PRODUCTION FKR AND TEG AND SEE IF OPEN PERFS WOULD TAKE FLUID WITH OUT HEAVING SAND BACK. LAST TD A 1256'+-. RAN IN AD-1 FKR, SN, CHANGE OVERS, 4.88', RAN ON 38 JTS OF CLASS B 2 7/8 TEG. 1161.36', TOTAL STRING 1166.24. FKR AT 1170'+-, USING 4' KB. FLUSHED ANNULUS, SET FKR W/12 POINTS, PRESSURE TESTED TO 500#, SHUT IN ANNULUS LEFT PRESSURE ON. INSTALLED ON TEG., 2 7/8 X 2" CHANGE OVER AND 2" FULL OPENING VALVE. TIED ONTO TEG STRING PUMPED INTO GLORETTA, TAKING WATER ON VACUUM. CLEANED LOCATION AND RIG DOWN. NOTE: MIKE SCHECHTER PRODUCTION PLANS ON RUNNING WIRELINE AND CHECKING TD BEFORE SETTING SURFACE EQUIPMENT.

FINAL REPORT  
TOMMY ROMERO  
SUBSURFACE SPECIALIST

CC:MIKE SCHECHTER    PRODUCTION FOREMEN  
   STEVE MAPLES       ENGINEER STAFF  
   RAE KELLY          REGULATORY  
   FILE

# ORIGINAL

10.4 3-2



634  
4 Squeeze Lobs  
650

Surface 8 5/8 24# 650

Production 5 1/2 14# 3250  
PBD 3208

769

Pkr of Change Quars 4.88  
38 Its 1161.36

Total String 1166.24  
KB 4

Pkr @ 1170.24

Pkr @ 1170 @ 4' KB

Fill up  
@ 1256

1230

Glucose Perfs  
100' 4spt

1330

350' of Rot Lobs

1710  
1720

Cmt 10'  
Cmt Retainer

1760 4 Squeeze Lobs

9# 360is Coll

2930  
2980

2989  
Cmt  
C180  
2989  
3018 CG