

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL HISTORY

Operator: License # 5208
Name MOBIL OIL CORPORATION
Address P.O. BOX 5444

City/State/Zip DENVER, COLORADO 80217

Purchaser P&A'D

Operator Contact Person B. R. MAYNARD
Phone (303) 298-2069

Contractor: License # 9137
Name UNIT DRILLING & EXPLORATION CO.

Wellsite Geologist DEAN DUBOIS
Phone (303) 298-3742

Designate Type of Completion
 New Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWD: old well info as follows;
Operator _____
Well Name _____
Comp. Date _____

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
P&A'D
4/2/89 4/10/89 4/11/89
Spud Date Date Reached TD Completion Date

6675 NA
Total Depth PBTD *Alt I DTD*

Amount of Surface Pipe Set and Cemented at 1768 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ feet
If alternate 2 completion, cement circulated
from _____ feet depth to _____ w/ _____ SX cmt
Cement Company Name HALLIBURTON SERVICES
Invoice # _____

API No. 15- 189-21319-00-00
COUNTY STEVENS
APPROX C SE Sec 5 Twp 34S Rge 38 East X West
1320 Ft North from Southeast Corner of Section
1120 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

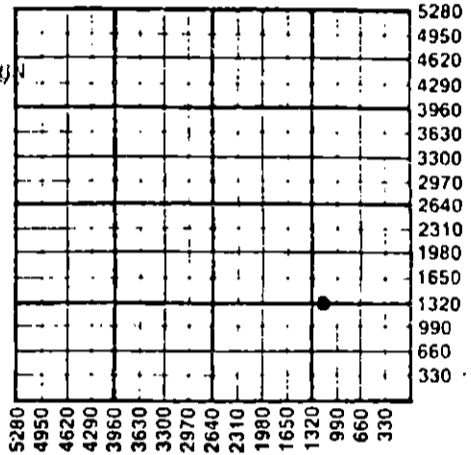
Lease Name FORWARD #1 UNIT WELL # 4

Field Name OLSON

Producing Formation MORROW

Elevation: Ground 3222.6 KB 3239

SECTION PLAT



WATER SUPPLY INFORMATION

Disposition of Produced Water: _____ Disposal
Docket # _____ Repressuring

Questions on this portion of ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water:
Division of Water Resources Permit# T 89-151
 Groundwater 1485 Ft. North from Southeast Corner
(well) 1085 Ft. West from Southeast Corner of
Sec 5 Twp 34S Rge 38 East X West
 Surface Water _____ Ft. North from Southeast Corner
(Stream, pond etc) _____ Ft. West from Southeast Corner
Sec _____ Twp _____ Rge _____ East _____ West
 Other (explain) _____
(purchased from city, R.W.D. #)

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 spud date of any well. Rule 82-3-130, 82-3-107, and 82-3-106 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 all wireline logs and drillers time log shall be attached with this form. Submit cp-4 form with all plugged wells. Submit cp-111 from with all temporarily abandoned wells.

All requirements of 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 [Signature] For B. R. MAYNARD
Title REGULATORY COMPLIANCE MANAGER Date 6/12/89

Subscribed and sworn to before me this 12th day of June
1989
Notary Public [Signature]
Date Commission Expires 1/3/91

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
6-15-89 [Signature]

SIDE TWO

Operator Name MOBIL OIL CORPORATION

Lease Name FORWARD #1 UNIT

Well 11

Sec 5 Twp 34S Rge 38 East
 West

County STEVENS

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
CHASE	2590	
COUNCIL GROVE	2895	
ADMIRE	4138	
HEEBNER	4138	
KANSAS CITY	4517	
MARMATON	5030	
CHEROKEE	5275	
MORROW	5807	
CHESTER	6335	
ST. GENEVIEVE	6493	

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in. O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24#	1768	CL C LITE	613 SX	65:35:6 (CMT:POZ:GEL) +3% CACL
					CL C	141 SX	2% CACL
Production		NONE				SX	
						SX	

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)

Depth

	P&A'D		

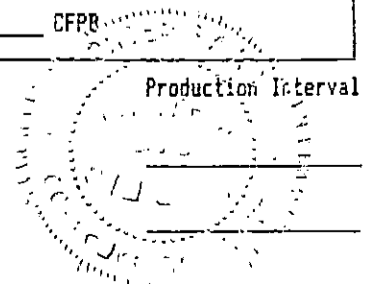
TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First Production P&A'D	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain)				
Estimated Production Per 24 Hours	Oil _____ Bbls	Gas _____ MCF	Water _____ Bbls	Gas-Oil Ratio _____ CFPR	Gravity

METHOD OF COMPLETION

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) _____
 Used on Lease Dually Completed
 Commingled

Production Interval



TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 1797

Well Name & No. Forward #1-4 Test No. 1 Date 4-8-89
 Company Mobil Oil Corp Zone Tested Morrow
 Address Box 5444, Denver, Colo. 80217 Elevation 3239' KB
 Co. Rep./Geo. Melanie Hill Cont. UNIT Drlg #19 Est. Ft. of Pay _____
 Location: Sec. 5 Twp. 34S Rge. 38W Co. STEVENS State Ks.

Interval Tested 6255-6275 Drill Pipe Size 4.125" XH
 Anchor Length 20 Top Choke — 1" _____
 Top Packer Depth 6250 Bottom Choke — 3/4" _____
 Bottom Packer Depth 6255 Hole Size — 7 7/8" _____
 Total Depth 6275 Rubber Size — 6 3/4" _____
 Wt. Pipe I.D. — 2.7 _____ Ft. Run _____
 Drill Collar — 2.25 _____ Ft. Run 725'
 Mud Wt. 9.3 lb./gal. Viscosity 45 Filtrate 8
 Tool Open @ 5:10 P.M. Initial Blow Strong - off bottom of bucket
in 3 min.
 Final Blow Strong - off bottom of bucket in 7 min.

Recovery — Total Feet 905 Flush Tool RECEIVED
 Rec. 905 Feet of S.W. (N.S.) STATE CORPORATION COMMISSION
 Rec. _____ Feet of _____ III 13 1989
 Rec. _____ Feet of _____ CONSERVATION DIVISION
 Rec. _____ Feet of _____ Wichita, Kansas

BHT 141 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .066 @ 84.7 °F Chlorides 56,000 ppm Recovery Chlorides 850 ppm System
 (A) Initial Hydrostatic Mud 3076 PSI AK1 Recorder No. 13849 Range 4375
 (B) First Initial Flow Pressure 170 PSI @ (depth) 6265 w/Clock No. 27567
 (C) First Final Flow Pressure 170 PSI AK1 Recorder No. 13850 Range 4325
 (D) Initial Shut-In Pressure 1790 PSI @ (depth) 6269 w/Clock No. 20872
 (E) Second Initial Flow Pressure 267 PSI Initial Opening 10 Test 650⁰⁰
 (F) Second Final Flow Pressure 502 PSI Initial Shut-In 60 Jar X
 (G) Final Shut-In Pressure 1800 PSI Final Flow 60 Safety Joint X
 (H) Final Hydrostatic Mud 2978 PSI Final Shut-In 180 Straddle _____

Approved By Danny White Circ. Sub X
 Our Representative Dan Bangle Sampler X 100⁰⁰
 Extra Packer _____
 Other _____

TOTAL PRICE \$ 750⁰⁰

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>FORWARD #1-4</u>	Test No. <u>1</u>	Date <u>4-8-89</u>
Company <u>MOBIL OIL CORP</u>	Zone Tested <u>MORROW</u>	
Address <u>BOX 5444 DENVER COLO 80217</u>	Elevation <u>3239 KB</u>	
Co. Rep./Geo. <u>MELANIE HILL</u>	Cont. <u>UNIT DRLG #19</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>5</u>	Twp. <u>34S</u>	Rge. <u>38W</u> Co. <u>STEVENS</u> State <u>KS</u>

Interval Tested <u>6255-6275</u>	Drill Pipe Size <u>4.5 XH</u>
Anchor Length <u>20</u>	Top Choke — 1" <u> </u>
Top Packer Depth <u>6250</u>	Bottom Choke — 3/4" <u> </u>
Bottom Packer Depth <u>6255</u>	Hole Size — 7 7/8" <u> </u>
Total Depth <u>6275</u>	Rubber Size — 6 3/4" <u> </u>
Wt. Pipe I.D. — 2.7 <u> </u>	Ft. Run <u>0</u>
Drill Collar — 2.25 <u> </u>	Ft. Run <u>725</u>
Mud Wt. <u>9.3</u> lb./gal.	Viscosity <u>45</u> Filtrate <u>8</u>
Tool Open @ <u>5:10PM</u>	Initial Blow <u>STRONG OFF BOTTOM OF BUCKET IN 3 MINUTES</u>

Final Blow STRONG OFF BOTTOM OF BUCKET IN 7 MINUTES

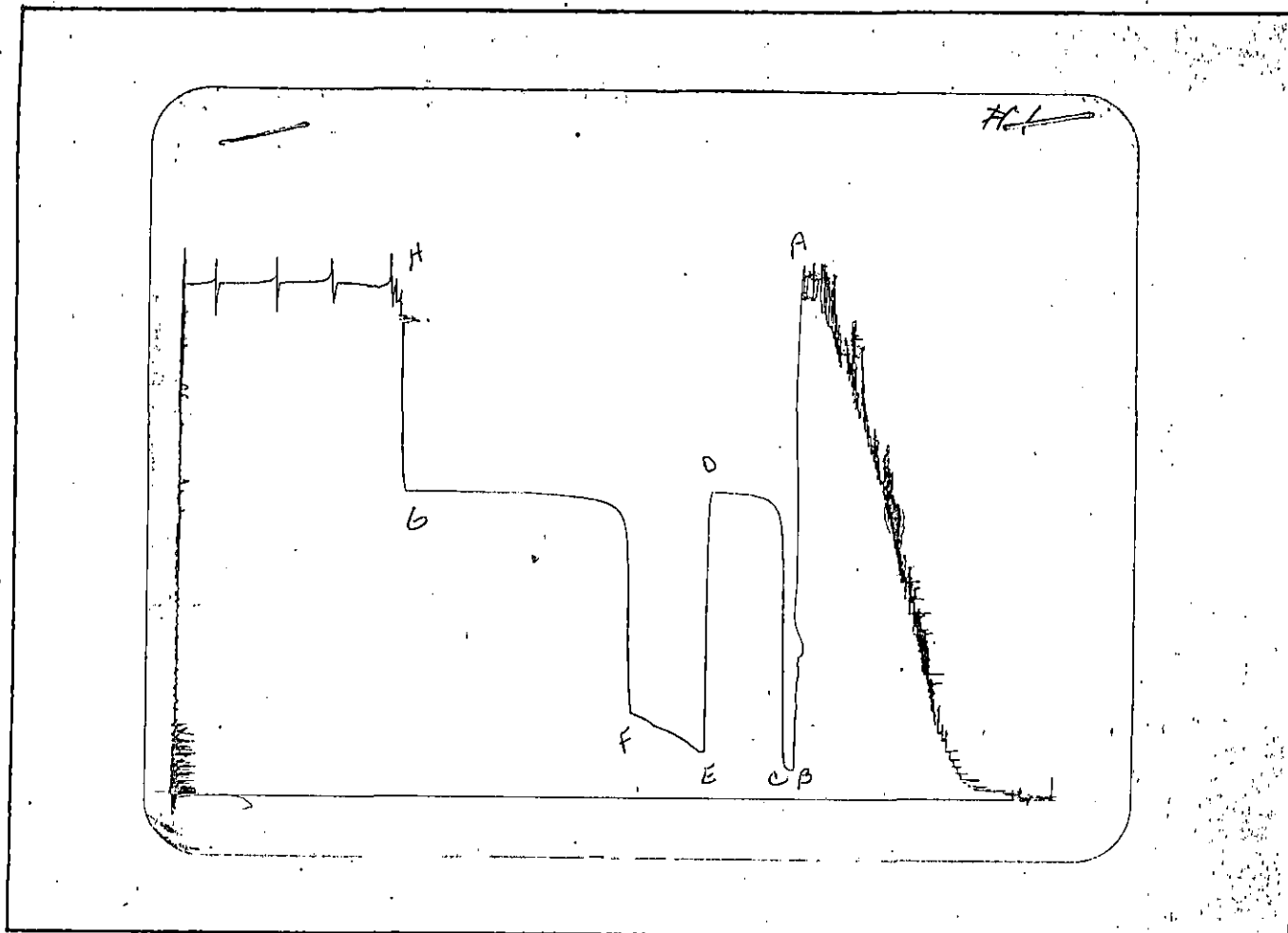
Recovery — Total Feet <u>905</u>	Flush Tool? <u>N</u> RECEIVED
Rec. <u>905</u> Feet of <u>SALT WATER · NO SHOW</u>	STATE CORPORATION COMMISSION
Rec. <u>0</u> Feet of <u> </u>	<u>III 13 1989</u>
Rec. <u>0</u> Feet of <u> </u>	CONSERVATION DIVISION
Rec. <u>0</u> Feet of <u> </u>	Wichita, Kansas
Rec. <u>0</u> Feet of <u> </u>	

BHT <u>141</u> °F	Gravity <u> </u> °API @ <u>0</u> °F	Corrected Gravity <u>0</u> °API
RW <u>.066</u> @ <u>84.7</u> °F	Chlorides <u>56000</u> ppm	Recovery Chlorides <u>850</u> ppm System
(A) Initial Hydrostatic Mud <u>2071.5</u> PSI	AK1 Recorder No. <u>13849</u>	Range <u>4375</u>
(B) First Initial Flow Pressure <u>165.2</u> PSI	@(depth) <u>6265</u>	w/Clock No. <u>27567</u>
(C) First Final Flow Pressure <u>165.2</u> PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(D) Initial Shut-In Pressure <u>1794.5</u> PSI	@(depth) <u>6269</u>	w/Clock No. <u>20272</u>
(E) Second Initial Flow Pressure <u>264.9</u> PSI	Initial Opening <u>10</u>	
(F) Second Final Flow Pressure <u>503.1</u> PSI	Initial Shut-In <u>60</u>	
(G) Final Shut-In Pressure <u>1804.7</u> PSI	Final Flow <u>60</u>	
(H) Final Hydrostatic Mud <u>2976.4</u> PSI	Final Shut-In <u>180</u>	

Our Representative DAN BANGLE

TOTAL PRICE \$ 750

Printcraft Printers - Hays, KS



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	3076	2071.5	PSI
(B) First Initial Flow Pressure.....	170	165.2	PSI
(C) First Final Flow Pressure.....	170	165.2	PSI
(D) Initial Closed-in Pressure.....	1790	1794.5	PSI
(E) Second Initial Flow Pressure.....	267	264.9	PSI
(F) Second Final Flow Pressure.....	502	503.1	PSI
(G) Final Closed-In Pressure.....	1800	1804.7	PSI
(H) Final Hydrostatic Mud.....	2978	2976.4	PSI

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STATE CORPORATION COMMISSION

13 1983
CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 1797 Date 4-8-89
Company Name MOBIL OIL CORP
Lease FORWARD #1-4 Test No. 1
County STEVENS Sec. 5 Twp. 34S Rng. 38W

SAMPLER RECOVERY

Gas 0 ML
Oil 0 ML
Mud 0 ML
Water 3000 ML
Other 0 ML
Pressure 400 PSI
Total 3000 ML

PIT MUD ANALYSIS

Chlorides 850 ppm.
Resistivity 0 ohms @ 0 F
Viscosity 45
Mud Weight 9.3
Filtrate 8
Other _____

SAMPLER ANALYSIS

Resistivity .065 ohms @ 83.6 F
Chlorides 55000 ppm.
Gravity 0 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .066 ohms @ 84.7 F
Chlorides 56000 ppm.
MIDDLE
Resistivity .066 ohms @ 85.6 F
Chlorides 56000 ppm.
BOTTOM
Resistivity .066 ohms @ 85.3 F
Chlorides 56000 ppm.

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APR 13 1989

CONSERVATION DEPARTMENT
Wichita, Kansas

OPERATOR: MOBIL OIL CORPORATION
FIELD: KS OLSON COUNTY: STEVENS
WELL: FORWARD 1 UT 4 SECTION: 5-34S-38W
API NO. 1518921319

DATE REMARKS

- 89 APR 02 SPUD WELL; DRILLED FROM 70' TO 1530'
SERVICE RIG
DRILLED FROM 1530' TO 1770'
CIRC/COND TO RUN CSG
SURVEYED
TOH TO RUN CSG
RU & RUN 8-5/8" CSG; SET AT 1768'
RU HALLIBURTON; CIRC BEFORE CEMENTING
CEMENT CASING
NU WELLHEAD
- 89 APR 03 NU BOP'S; TEST
TEST BLIND RAMS; CHOKE MANIFOLD
LINES FROM KOOMEY UNIT LEAKING; REPAIR; CONNECTION AT BLIND
TIGHTEN FLANGES; RETEST BLIND RAMS TO 1500#-OK
RU FLOOR; PU BIT #2
SERVICE RIG
TIH
PRESSURE TEST PIPE RAMS TO 1500#; HYDRILL TO 1000#-OK
DRILLING PLUG; CEMENT; TEST SHOE JOINT TO 1000#-OK
DRILL CEMENT & FORMATION FROM 1770' TO 1787'
FIT TO 13.PPG EMW
DRILLED FROM 1787' TO 2317'
SERVICE RIG
DRILLED FROM 2317' TO 2913'
SERVICE RIG
DRILLED FROM 2913' TO 3136'; LOST 450 BBLS MUD
- 89 APR 04 BUILD VOLUME
DRILLED FROM 3136' TO 3200'
DRILLED FROM 3200' TO 3254'
SERVICE RIG
DRILLED FROM 3245' TO 3662'
SERVICE RIG
DRILLED FROM 3662' TO 4050'
SERVICE RIG
DRILLED FROM 4050' TO 4335'
- 89 APR 05 DRILLED FROM 4335' TO 4370'
SERVICE RIG
DRILLED FROM 4370' TO 4710'
SERVICE RIG
DRILLED FROM 4710' TO 4746'
SURVEYED
TOH FOR BIT #3; HIGH TORQUE & SLOW P-RATE; CONES PINCHED
TIH; LD 7 JTS DP
REAM FROM 4499' TO 4746'; NO FILL
DRILLED FROM 4746' TO 4759'
SERVICE RIG
DRILLED FROM 4759' TO 4968'
- 89 APR 06 DRILLED FROM 4968' TO 5000'
SERVICE RIG

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Wichita, Kansas

DRILLED FROM 5000' TO 5135'

REPAIR GEAR CHAIN

DRILLED FROM 5135' TO 5205'

SERVICE RIG

DRILLED FROM 5205' TO 5430'; LOST 175 BBLS

SERVICE RIG

DRILLED FROM 5430' TO 5615'

89 APR 07 DRILLED FROM 5615' TO 5640'

SERVICE RIG FROM 5640' TO 5875'

SERVICE RIG

DRILLED FROM 5875' TO 6085'

SERVICE RIG

DRILLED FROM 6085' TO 6273'; BEGIN CIRC FOR SAMPLES

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STATE CORPORATION

JUN 5 1989

CONSERVATION DIVISION
Wichita, Kansas

OPERATOR: MOBIL OIL CORPORATION
FIELD: KS OLSON COUNTY: STEVENS
WELL: FORWARD 1 UT 4 SECTION: 5-34S-38W
API NO. 1518921319

DATE REMARKS

89 APR 08 CIRC FOR SAMPLES AT 6273'
10 STD SHORT TRIP; 22' FILL
CIRC/COND FOR DST #1
10 STD SHORT TRIP; NO FILL
CIRC FOR DST #1
DROP SURVEY
TOH FOR DST #1; SLM-2' CORRECTION TO 6275'
PU DST TOOLS; TIH TO TEST UPPER MORROW;POH; WORK PIPE TO

89 APR 09 FINISH POH; LD DST TOOLS; PU BIT; TIH; BREAK CIRC; NO FILL
DRILLED TO 6375'
SERVICE RIG
DRILLED FROM 6375' TO 6505'
SERVICE RIG
DRILLED FROM 6505' TO 6616'

89 APR 10 DRILLED TO 6635
RIG SERVICE
DRILLED FROM 6635' TO 6675' (TD)
CIRC/COND MUD; SHORT TRI-P-6 STDS; NO FILL; CIRC/COND MUD
DROP SURVEY
POH; NO DRAG; NO CORRECTION ON SLM
RU WELEX; TIH W/DIL/SP/GR/SONIC/CAL;LOGS STUCK AT 6651';

89 APR 11 ORDERED TO P&A; W/O LD MACHINE
RU LD MACHINE; TIH W/DC; POH & LD DC
FINISH LD DC; TIH W/DP O.E. TO 5815'; BREAK KELLY
RU DOWELL/SCHLUMBERGER; PUMP CEMENT
POH; LD 94 SGLS
PUMP 10 BFW; 100 SX CEMENT
POH; LD 35 SGLS
PUMP 10 BFW; 50 SX CMT; 3 BFW; 15 BM
POH; LD 29 SGLS
PUMP 10 BFW; 50 SX CMT; 3 BFW; 5 BM
POH; LD 5 SGLS
ND BOP F/CSG HEAD
BREAK CIRC; 10 SX CMT; WASH UP TO PIT; 15 SX IN RATHOLE;
JET PITS; RELEASED RIG

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JUN 5 1989

CONSERVATION DIVISION
Wichita, Kansas

MOBIL OIL CORPORATION

DRILLING COMPLETION SUMMARY

WELL: FORWARD 1 UT 4 MATCH NUMBER: 891006
API: 1518921319
WELL TYPE: DEVELOPMENT

COORDINATES: 1320' FSL 1120' FEL
SECTION: 5-34S-38W FIELD: KS OLSON
COUNTY: STEVENS STATE: KS
WELL SPUDDED: 89 APR 02
REACHED TD: 89 APR 10
RIG RELEASE: 89 APR 11

GROUND ELEVATION: 3223
KB ELEVATION: 3239
OBJECTIVE: MORROW
PROD. CASING DEPTH: 0

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JUN 5 1989

CONSERVATION DIVISION
Wichita, Kansas

ADDITIONAL COMMENTS

06/08/89

OPERATOR: MOBIL OIL CORPORATION
FIELD: KS OLSON COUNTY: STEVENS
WELL: FORWARD 1 UT 4 SECTION: 5-34S-38W
API NO. 1518921319

DATE

89 APR 02 CASING_OD 8-5/8" TOP_CSG 0 SHOE_DEPTH 1768
CMT LEAD W/613 SX CLASS 'C' LITE; 65:35:6; 3% CACL; TAILED W/
CMT 141 SX CLASS 'C'; 2% CACL
CMT
CMT
CMT
CMT

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JUN 5 1989

CONSERVATION DIVISION
Wichita, Kansas