

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

Operator: License # 5208Name: Mobil Oil CorporationAddress P.O. Box 21732319 North Kansas AvenueCity/State/Zip Liberal, KS 67905-2173Purchaser: Spot MarketOperator Contact Person: Sharon CookPhone (316) 626-1142Contractor: Name: Norseman Drilling Inc.License: 3779Wellsite Geologist: L. J. Reimer

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.
☒ Gas ☐ ENHR ☐ SIGW
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD
☐ Plug Back ☐ PBDT
☐ Commingled ☐ Docket No. _____
☐ Dual Completion ☐ Docket No. _____
☐ Other (SWD or Inj?) ☐ Docket No. _____

9-4-96 9-7-96 10-2-96
Spud Date Date Reached TD Completion Date

API NO. 15- 129-214470000

ORIGINAL

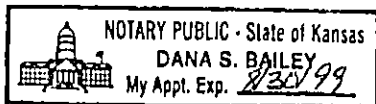
County Morton- NW - SE - SE Sec. 2 Twp. 33S Rge. 40 X W E1250 Feet from S/N (circle one) Line of Section1250 Feet from E/W (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name McCammon Unit Well # 4Field Name HugotonProducing Formation ChaseElevation: Ground 3295 KB 3305Total Depth 2863 PBDT 2808Amount of Surface Pipe Set and Cemented at 631 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ NoIf yes, show depth set NA FeetIf Alternate II completion, cement circulated from NAfeet depth to NA w/ NA sx cmt.Drilling Fluid Management Plan ALT 1 JH 2-3-97
(Data must be collected from the Reserve Pit)Chloride content 1400 ppm Fluid volume 520 bblsDewatering method used Waste Minimization Mud System

Location of fluid disposal if hauled offsite:

Operator Name Mobil Oil CorporationLease Name Mangels #1-2 SWDW License No. 5208SE Quarter Sec. 6 Twp. 34 S Rng. 39 E/WCounty Morton Docket No. D-19,354

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 Sharon A. Cook Sharon A. CookTitle Regulatory Assistant Date 10-24-96Subscribed and sworn to before me this 24th day of October, 19 96.Notary Public Dana S. BaileyDate Commission Expires August 30, 1999
6-193.kcc

K.C.C. OFFICE USE ONLY
F ☒ Letter of Confidentiality Attached
C ☒ Wireline Log Received
C ☐ Geologist Report Received

Distribution
☒ KCC ☐ SWD/Rep ☐ NGPA
☐ KGS ☐ Plug ☐ Other
(Specify)

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name McCammon Unit Well # 4
 Sec. 2 Twp. 33S Rge. 40 ☐ East ☒ West
 County Morton

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 (Attach Additional Sheets.)	☐ Yes ☒ No	☒ Log	Formation (Top), Depth and Datums	☐ Sample
Samples Sent to Geological Survey	☐ Yes ☒ No	Name	Top	Datum
Cores Taken	☐ Yes ☒ No	Glorietta	1254	1397
Electric Log Run (Submit Copy.)	☒ Yes ☐ No	Stone Corral	1663	1674
List All E.Logs Run:		Chase	2375	2703
		Council Grove	2703	--
High Resolution Dual Induction Focused Log Gamma Ray/Caliper Z-Densilog Compensated Neutron Spectralog Caliper Log Gamma Ray				

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 Casing	12.250	8.625	24#	631	Class C	220	50:50 C/poz
					Class C	165	50:50 C/poz
Production Casing	7.875	5.500	14#	2853	Class C	160	3% D79
					Class C	75	2% B28

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 SPF	2435-2445	Acid: 1,000 gals 7.5% HCL	
	2476-2491	Fract: 27,500 gals 20# Crosslink gel	
	2553-2563	135,000 lbs 12/20 Brady Sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run ☐ Yes ☒ No
Date of First, Resumed Production, SWD or Inj. 9-30-96	Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		278		

Disposition of Gas: ☒ Vented ☒ Sold ☐ Used on Lease ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled 2435
 (If vented, submit ACO-18.) ☐ Other (Specify) 2563

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

128606

DATE 9-3-96

AGE

DS

DISTRICT

03 12 UKS

DS-496-A • PRINTED IN U.S.A.

WELL NAME AND NO.

LOCATION (LEGAL)

RIG NAME:

FIELD-POOL

FORMATION

WELL DATA:

BOTTOM

TOP

COUNTY/PARISH

STATE

API. NO.

BIT SIZE

CSG/Liner Size

TOTAL DEPTH

WEIGHT

☐ ROT ☐ CABLE

FOOTAGE

MUD TYPE

GRADE

☐ BHST☐ BHCT

THREAD

MUD DENSITY

LESS FOOTAGE

SHOE JOINT(S)

MUD VISC.

Disp. Capacity

TOTAL

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

Float

TYPE

DEPTH

SHOE

TYPE

DEPTH

Stage Tool

TYPE

DEPTH

TYPE

DEPTH

Head & Plugs

☐ TBG☐ D.P.

SQUEEZE JOB

☐ Double

SIZE

☒ Single☐ WEIGHT☐ Swage☐ GRADE☐ Knockoff☐ THREADTOP ☐ R ☐ W☐ NEW ☐ USEDBOT ☐ R ☐ W

DEPTH

TOOL

TYPE

DEPTH

TAIL PIPE: SIZE

DEPTH

TUBING VOLUME

Bbls

CASING VOL. BELOW TOOL

Bbls

TOTAL

Bbls

ANNUAL VOLUME

Bbls

IS CASING/TUBING SECURED?

☒ YES☐ NO

LIFT PRESSURE

200

PSI

CASING WEIGHT ÷ SURFACE AREA

(3.14 × R²)

PRESSURE LIMIT

2000

PSI

BUMP PLUG TO

880

PSI

ROTATE

RPM

RECIPROCAT

FT

No. of Centralizers

TIME

PRESSURE

VOLUME PUMPED BBL

JOB SCHEDULED FOR

TIME: ASAP DATE: 9-3-96

ARRIVE ON LOCATION

TIME: 2230 DATE: 9-3-96

LEFT LOCATION

TIME: 0300 DATE: 9-4-96

0001 to 2400

TBG OR D.P.

CASING

INCREMENT

CUM

INJECT RATE

FLUID TYPE

FLUID DENSITY

SERVICE LOG DETAIL

PRE-JOB SAFETY MEETING

PSI TEST TO

PSI

0143

123

25

0

5.5

H₂O

8.3

START H₂O

0149

250

74

25

5.5

CMT

12.8

START Lead Cement

0201

230

35

99

5.5

CMT

14.6

START Tail Cement

0208

—

—

134

—

—

—

Shutdown

0212

220

30

134

5.5

H₂O

8.3

Drop Plug START Displacement

0218

178

8.3

164

2.0

H₂O

8.3

Lower Pump Rate

0215

220

—

1723

2.0

H₂O

8.3

Cement Return TO Surface

0225

850

—

1723

—

—

—

Bump Plug Shutdown

0226

—

—

—

—

—

—

STOP Acquisition

Bump Plug TO 850 PSI

REMARKS

SYSTEM CODE

NO. OF SACKS

YIELD CU. FT/SK

COMPOSITION OF CEMENTING SYSTEMS

SLURRY MIXED

BBLs

DENSITY

1.

220

1.89

50/50 Pozc + 16% D20 + 3% S1 + 5% D44 (BLOW) + 1/4 #SK D29

74

12.8

2.

165

1.22

50/50 Pozc + 2.5% S1 + 1/4 #SK D29

35.8

14.6

3.

4.

5.

6.

BREAKDOWN FLUID TYPE

VOLUME

DENSITY

PRESSURE

MAX.

MIN:

☐ HESITATION SQ.☐ RUNNING SQ.

CIRCULATION LOST

☐ YES ☒ NO

Cement Circulated To Surf.

☒ YES ☐ NO

21 Bbls

BREAKDOWN

PSI

FINAL

PSI

DISPLACEMENT VOL.

39.4

Bbls

Washed Thru Perfs ☐ YES ☐ NO

TO

FT.

MEASURED DISPLACEMENT ☒☐ WIRELINE

TYPE OF WELL

☐ OIL☐ GAS☐ STORAGE☐ BRINE WATER☐ INJECTION☐ WILDCAT

PERFORATIONS

CUSTOMER REPRESENTATIVE

DS

SUPERVISOR

TO

TO

RUSSELL Worley

DARRIN D Shilling

RECEIVED
KANSAS OIL FIELD
1996 OCT 25 11 21 AM

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

DATE

STAGE

DS

DISTRICT

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO.

LOCATION (LEGAL)

RIG NAME:

FIELD-POOL

FORMATION

WELL DATA:

BOTTOM

TOP

COUNTY/PARISH

STATE

API. NO.

BIT SIZE

CSG/Liner Size

TOTAL DEPTH

WEIGHT

ROT CABLE

FOOTAGE

MUD TYPE

GRADE

BHST

BHCT

THREAD

MUD DENSITY

LESS FOOTAGE SHOE JOINT(S)

MUD VISC.

Disp. Capacity

TOTAL

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float

TYPE

DEPTH

SHOE

TYPE

DEPTH

Stage Tool

TYPE

DEPTH

TYPE

DEPTH

Head & Plugs

TBG

D.P.

SQUEEZE JOB

Double

SIZE

Single

WEIGHT

Swage

GRADE

TAIL PIPE: SIZE

DEPTH

Knockoff

THREAD

TUBING VOLUME

Bbls

TOP OR W

NEW USED

CASING VOL. BELOW TOOL

Bbls

BOT OR W

DEPTH

TOTAL

Bbls

ANNUAL VOLUME

Bbls

IS CASING/TUBING SECURED?

YES

NO

LIFT PRESSURE

600

PSI

CASING WEIGHT ÷ SURFACE AREA

(3.14 x R²)

PRESSURE LIMIT

1500

PSI

BUMP PLUG TO

1550

PSI

ROTATE

RPM

RECIPROCAT

FT

No. of Centralizers

TIME

PRESSURE

VOLUME PUMPED BBL

JOB SCHEDULED FOR

TIME: 11:50 AM DATE: 9-7-96

ARRIVE ON LOCATION

TIME: 10:45 DATE: 9-7-96

LEFT LOCATION

TIME: 16:30 DATE: 9-7-96

0001 to 2400

TBG OR D.P.

CASING

INCREMENT

CUM

INJECT RATE

FLUID TYPE

FLUID DENSITY

SERVICE LOG DETAIL

1439

1440

1445

1459

1503

1506

1518

1524

1525

1528

1529

PRE-JOB SAFETY MEETING

PSI TEST TO

PSI

START H2O Ahead

START Lead CMT

START Tail CMT

Shutdown Washup TO Pit

Drop Plug START Displacement

Lower Pump Rate

Bump Plug Shutdown

Bleed PSI, Float holding

End Job

Stop Hcg.

REMARKS

SYSTEM CODE

NO. OF SACKS

YIELD CU. FT/SK

COMPOSITION OF CEMENTING SYSTEMS

SLURRY MIXED

BBLs

DENSITY

1.

160

2.75

C+3% B79+.2% B46+.25/16 /SK 129

78.3

11.5

2.

75

1.37

C+2% B28+2% S1+.6% B60+.2% B46

18.2

14.8

3.

4.

5.

6.

BREAKDOWN FLUID TYPE

VOLUME

DENSITY

PRESSURE

MAX.

MIN:

HESITATION SQ.

RUNNING SQ.

CIRCULATION LOST

YES NO

Cement Circulated To Surf. YES NO Bbls

BREAKDOWN

PSI

FINAL

PSI

DISPLACEMENT VOL.

69

Bbls

TYPE OF WELL

OIL

GAS

STORAGE

BRINE WATER

Washed Thru Perfs

YES

NO

TO

FT.

MEASURED DISPLACEMENT

WIRELINE

PERFORATIONS

CUSTOMER REPRESENTATIVE

DS

SUPERVISOR

TO

TO

TO

TO

Russell Worley

Darren D Shilling