

ORIGINAL

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

API NO. 15- 189-21888 -00-00

County Stevens
SE - NW - NW Sec. 23 Twp. 34S Rge. 36 X W E

Operator: License # 5208

1250 Feet from S/N (circle one) Line of Section

Name: Mobil Oil Corporation

1250 Feet from E/W (circle one) Line of Section

Address P.O. Box 2173

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

2319 North Kansas Avenue

Lease Name Erdwien Unit Well # 2

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3043 KB 3054

Phone (316) 626-1142

Total Depth 2984 PBDT 2947

Contractor: Name: Cheyenne Drilling

Amount of Surface Pipe Set and Cemented at 801 Feet

License: 5382

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion

If Alternate II completion, cement circulated from NA

X New Well Re-Entry Workover

feet depth to NA w/ NA sx cmt.

Oil SWD S10W Temp. Abd.

Drilling Fluid Management Plan ALT 1 3-28-96 JK
(Data must be collected from the Reserve Pit)

X Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Chloride content 14,200 ppm Fluid volume 450 bbls

Operator: _____

Dewatering method used Waste Minimization Mud System

Well Name: _____

Location of fluid disposal if hauled offsite:

Comp. Date _____ Old Total Depth _____

Operator Name Mobil Oil Corporation

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

Lease Name C. W. Creamer #1 SWD License No. 5208

1-26-95 1-29-95 3-1-95

NE Quarter Sec. 23 Twp. 34 S Rng. 37 E/W

Spud Date _____ Date Reached TD _____ Completion Date _____

County Stevens Docket No. D-19,411

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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. Cook

Title Regulatory Assistant Date 3-15-95

Subscribed and sworn to before me this 15th day of March, 1995.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998

K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached F
Wireline Log Received C
Geologist Report Received C
Distribution
✓ KCC SWD/Rep NGPA
KGS Plug Other
(Specify)



SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Erdwien Unit Well # 2
 Sec. 23 Twp. 34S Rge. 36 East County Stevens
 West

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
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run:
 Dual Induction Focused Log - Gamma Ray Caliper
 Z-Densilog Compensated Neutron Spectralog
 Caliper Log - Gamma Ray

Name	Formation (Top), Depth and Datums		Sample
	Top	Datum	
Glorietta	1188	1355	
Stone Corral	1692	1750	
Chase	2643	--	
Council Grove	--		

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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#	801	Class C	220 sx	50:50 C/poz
					Class C	175 sx	50:50 C/poz
Production Casing	7.875	5.500	14#	2974	Class C	220 sx	3% D79
					Class C	150 sx	2% B28

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

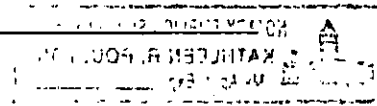
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
SEE ATTACHED WELL HISTORY		

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj.	2-25-95				Producing Method	<input checked="" 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 Gravity
			763				

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled 2645

Production Interval: Other (Specify) 2852



Well Data - Well History Report

Lease: ERDWIEN UNIT WELL #2
API #: 15-189-21888-00

Well #: 2
State: KS
Ppty ID: 2015200

Well ID: 0053248
County: STEVENS
OCSG #:

Spud Date: 01/26/1995
Spud Time: 15:15

Water Depth: 0
Original Ref Point: KB

KB Height: 10
BH Height: 0
DF Height:

ORIGINAL

Drilling Job Start/End: 01/26/95 @ 15:15 to 01/29/95 @ 23:30
Completion Job Start/End: 02/03/95 @ 16:30 to ~~OPEN~~ 3-1-95

DATE	ACTIVITY
01/26/95	CASING OD: 8.625, 24.00# US50, Top/Bot: 0/801
01/29/95	CASING OD: 5.500, 14.00# US50, Top/Bot: 0/2974
02/08/95	PERFORATIONS: 2645-2650 2.0 JSPF; 2674-2684 1.0 JSPF 2715-2725 S 1.0 JSPF; 2730-2740 . 1.OPJSPF; 2769-2789 . 2.OPJSPF 2842-2852 1.0 JJSPF 2730-2740 . 1.OPJSPF; 2769-2789 . 2.OPJSPF

WELLBORE SUMMARY

API WB#	Creation Date	Top	TD	Diam(@TD)	Plug Back Date	Depths PBT
00	01/26/95	0	2984		01/29/95	2984

CASING SUMMARY

Date RUN	String	OD	ID	Grade	Wt/FT	Connection	Top/Bot
01/26/95		8.625	8.097	US50	24.00	STC	0/801
01/29/95		5.500	5.012	US50	14.00	STC	0/2974

PERFORATION SUMMARY

Perf Date	Top Perf	Btm Perf	Zone Name	Phase (deg)	Hole Size	Division J/B	Sqzd
02/08/95	2645	2650	HERINGTON	2.0	120	0.33	J
02/08/95	2674	2684	U. KRIDER	1.0	120	0.33	J
02/08/95	2715	2725	L. KRIDER	1.0	120	0.33	J
02/08/95	2730	2740	L. KRIDER	1.0	120	0.33	J
02/08/95	2769	2789	WINFIELD	2.0	120	0.33	J
02/08/95	2842	2852	TOWANDA		120	0.33	J

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MAR 17 1995

SPENSER DIVISION
MAR 17 1995

MSD999

*** PRISM ***

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Well Data - Well History Report

ORIGINAL

PERFORATION TIME CODE ACTIVITY

DATE	HOURS	CODE	ACTIVITY
1995-02-09	1.00	636	PERF TOWANDA 2842-52 (4SPF)
1995-02-10	2.00	636	PERF.WINFIELD 2769-89 (2SPF), L. KRIDER 2715-25 (1SPF), 2730-40 (1SPF), U. KRIDE R 2674-84 (1SPF), HERINGTON 2645- 50 (2S PF) SD

WELL TREATMENT TIME CODE ACTIVITY

DATE	HOURS	CODE	ACTIVITY
1995-02-13	1.00	657	ACIDIZE W/1500 GALS 7.5% HCL & 1500 GAL FW & BALL SEALERS IN 500 GAL STAGES, BEG INNING W/WTR. FORM. BROKE @ 1987#, @ 7 B PM, GOOD BALL ACTION & BALL OUT,AIR 10 B PM.
1995-02-13	2.00	655	FRAC VIA CSG W/128000# 12/20 SND & 1000 BBL'S X-LINKED GELLED FW, SND RAMMED 1PP G-7.5PPG, AIR 50 BPM, SD W/57 BBL'S FLUS H IN CSG. ISIP 600#, 5 MIN SI 0, FRAC TA GGED W/3Mc SC-46, 4Mc Sb-124, 35Mc IK-19 2

Report Generated on: 03/15/95 @ 08:32

End of Report...

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MAR 17 1995
CONSERVATION DIVISION
WICHITA, KANSAS

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

03126831 STAGE DS DISTRICT Ulysses, KS 0312

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

WELL NAME AND NO. ERDWEIN #2
 LOCATION (LEGAL) SEC 23-34S-36W
 FIELD-POOL HUGOTON
 FORMATION
 COUNTY/PARISH STEVENS
 STATE KS
 API. NO.

RIG NAME: CHEYENNE #4
 WELL DATA: BIT SIZE 7 7/8 CSG/Liner Size 5 1/2
 TOTAL DEPTH 2984 WEIGHT 14
 ROT CABLE FOOTAGE 2974
 MUD TYPE GRADE USSO
 BHST BHCT THREAD 8RD
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 42
 MUD VISC. Disp. Capacity 71.5

NAME MOBIL OIL CORP.
 AND ORIGINAL
 ADDRESS
 ZIP CODE

SPECIAL INSTRUCTIONS
 START CEMENT W/O shutdown
 PER CUSTOMER'S ORDERS

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

Float	TYPE INSERT FLOAT VALVE	TYPE
	DEPTH 2932	DEPTH
SHOE	TYPE CEMENT NOSE	TYPE
	DEPTH 2974	DEPTH

Head & Plugs TBG D.P. SQUEEZE JOB
 Double SIZE
 Single WEIGHT TOOL TYPE
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knockoff THREAD TUBING VOLUME Bbls
 NEW USED CASING VOL. BELOW TOOL Bbls
 DEPTH TOTAL Bbls
 ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 1753 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT 500 OVER PSI BUMP PLUG TO PSI
 ROTATE RPM RECIPROCATATE FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
17:30											
18:15	2500						H ₂ O	8.32			PSI TEST LINES
18:18		20	25		5.8		H ₂ O	8.32			START H ₂ O
18:23		200	108	25	5.8		CMT	11.5			START LEAD SLURRY
18:32		200	57	75	5.8		CMT	11.5			PSI CHECK (50 bbl OF LEAD)
18:41		190	36	132	5.8		CMT	14.0			START TAIL SLURRY
18:48		0		168	0.0						SHUTDOWN/WASH LINES / DROP TOP PLUG
18:53		40	71.5		5.8		H ₂ O	8.32			START DISPLACEMENT
19:03		890		60	5.8		H ₂ O	8.32			PSI CHECK
19:09				735							STOP PUMPING / Plug did NOT Bump
19:11											Bleed PSI / FLOAT Holding

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	220	2.75	CLASS C + 3% D79 + 0.2% D46 + 1% D29				107.7	
2.	150	1.37	CLASS C + 2% B28 + 2% S1 + 0.6% D60 + 0.2% D46				36.5	
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO
 Cement Circulated To Surf. YES NO Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 73 Bbls
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
 TYPE OF WELL OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE MR. JOE DAVIS DS SUPERVISOR Russ Wagstaff

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 23-12-6827 DATE: 1-26-95
 STAGE: DS DISTRICT: Ulysses, KS

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

WELL NAME AND NO. *Eduwin #2* LOCATION (LEGAL) *Sec 23-34s-36w* RIG NAME: *Cherokee #4*

FIELD-POOL _____ FORMATION _____ WELL DATA: BIT SIZE *2 1/4* CSG/Liner Size *8 1/2* BOTTOM _____ TOP _____

COUNTY/PARISH *STEPHENS* STATE *KS* API. NO. _____ TOTAL DEPTH *810* WEIGHT *24*

NAME *Mobil Oil Corp* MUD TYPE _____ GRADE _____ FOOTAGE *802*

AND _____ MUD DENSITY _____ LESS FOOTAGE SHOE JOINT(S) _____ MUD VISC. _____ Disp. Capacity *48*

ADDRESS _____ ZIP CODE _____

SPECIAL INSTRUCTIONS _____

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

Float	TYPE	<i>baffle plate</i>	Tool	TYPE	
	DEPTH	<i>759</i>		DEPTH	
SHOE	TYPE	<i>cut nose</i>	Stage	TYPE	
	DEPTH	<i>802</i>		DEPTH	

Head & Plugs TBG D.P. SQUEEZE JOB

Double Single Swage Knockoff

SIZE _____ WEIGHT _____ GRADE _____ THREAD _____

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 *330* PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²) _____

PRESSURE LIMIT _____ PSI BUMP PLUG TO *660* PSI

ROTATE _____ RPM RECIPROCATE _____ FT No. of Centralizers _____

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
0105	1630							2200	1-26-95	0700	1-27-95
0106			25		6	H ₂ O					
0110	170		83		6	cmt	12.2				
0118	160		49		6	cmt	12.2				
0126	160		37		6	cmt	14.8				
0129	280		20		6	cmt	14.8				
0132	0										
0133	0		48		6	H ₂ O					
0137	170		20		6	H ₂ O					
0140	290		35		2						
0143	250		45		2						
0145	660		48		2						
0146	280										

REMARKS _____

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	220	2.11	<i>50c super + 6% gel + 3% brack + 1/4 #1029</i>				82.6	12.2
2.								
3.	175	1.20	<i>50c super + .75% gel + 3% brack + 1/4 #1029</i>				37.4	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE _____ VOLUME _____ DENSITY _____ PRESSURE _____ MAX. *3550* MIN. _____

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO *13* Bbls

BREAKDOWN _____ PSI FINAL _____ PSI DISPLACEMENT VOL. *48* Bbls

Washed Thru Perfs YES NO TO _____ FT. MEASURED DISPLACEMENT _____ WIRELINE

PERFORATIONS _____ CUSTOMER REPRESENTATIVE _____ DS SUPERVISOR *James E. ...*