

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- 189-221650000

County Stevens
- NW - SW - SE Sec. 19 Twp. 31S Rge. 35 E
X W

Operator: License # 5208

1250 Feet from SN (circle one) Line of Section

Name: Mobil Oil Corporation

2520 Feet from EW (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 Moorhead Unit Well # 3

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3031 KB 3041

Phone (316) 626-1142

Total Depth 2910 PBDT 2858

Contractor: Name: Norseman Drilling Inc.

Amount of Surface Pipe Set and Cemented at 596 Feet

License: 3779

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion
X New Well Re-Entry Workover

If Alternate II completion, cement circulated from NA

 Oil SWD SLOW Temp. Abd.
X Gas ENHR SIGW
 Dry Other (Core, REC RECEIVED Methodic, etc)

feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan A.H. 1 1-13-98 v.c.
(Data must be collected from the Reserve Pit)

If Workover:

Operator: SEP 30 1997

Chloride content 35,000 ppm Fluid volume 250 bbls

Well Name:

Dewatering method used Evaporation

Comp. Date CONSERVATION DIVISION
WICHITA, KS

Location of fluid disposal if hauled offsite:

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

Operator Name Mobil Oil Corporation

Lease Name License No. 5208

6-3-97 6-5-97 6-24-97
Spud Date Date Reached TD Completion Date

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

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. Cook
Title Regulatory Assistant Date 9-29-97

Subscribed and sworn to before me this 29th day of September,
19 97.

Notary Public Lynn K. Hunt

Date Commission Expires February 20, 2001
7-65.kcc

K.C.C. OFFICE USE ONLY		
F	<u> </u>	Letter of Confidentiality Attached
C	<u> </u>	Wireline Log Received
C	<u> </u>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<u> </u> SWD/Rep <u> </u> NGPA
<u> </u>	KGS	<u> </u> Plug <u> </u> Other
(Specify)		



ORIGINAL

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Moorhead Unit Well # 3

Sec. 19 Twp. 31S Rge. 35 East West County Stevens

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:
NO LOGS RUN

Log Formation (Top), Depth and Datums Sample
Name: Top Datum

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#	596	Class C Class C	175 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2902	Class C Class C	225 100	3% D79 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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SPF	2626-40	Acid: 1,000 gals 7.5% HCL	
	2683-93	Fracd: 40,800 gals WF130 in 70q foam	
	2742-62	116,960 lbs 16/30 sand	

TUBING RECORD

Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 7-11-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		313			

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 2626

Production Interval Other (Specify) _____ 2762



CEMENTING SERVICE REPORT

Schlumberger
Dowell

TREATMENT NUMBER 000 0161	DATE 6-3-97
STAGE 1	DS U15555 KS

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

WELL NAME AND NO. Moorehead #3	LOCATION (LEGAL) Sec 19 31S-35W
FIELD-POOL Hugoton	FORMATION Surface
COUNTY/PARISH Stevens	STATE KS
API. NO.	

RIG NAME: Norsman #2	WELL DATA:		BOTTOM	TOP
BIT SIZE 12 1/4	CSG/Liner Size	8 5/8		
TOTAL DEPTH 602	WEIGHT	24		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	597		
MUD TYPE Gel	GRADE	U550		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT 70°	THREAD	8RT		
MUD DENSITY 9.5	LESS FOOTAGE SHOE JOINT(S)	40.3		TOTAL
MUD VISC. 33	Disp. Capacity	35.5		

NAME Mobil EOP US Inc.

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

ORIGINAL

NOTE: Include Footage From Ground Level To Head In Disp. Capacity																				
<table border="1"> <tr> <td>Foot</td> <td>TYPE</td> <td>Baffle Plate</td> <td>TYPE</td> <td></td> </tr> <tr> <td></td> <td>DEPTH</td> <td>557</td> <td>DEPTH</td> <td></td> </tr> <tr> <td>SHOE</td> <td>TYPE</td> <td>Guide</td> <td>TYPE</td> <td></td> </tr> <tr> <td></td> <td>DEPTH</td> <td>597</td> <td>DEPTH</td> <td></td> </tr> </table>	Foot	TYPE	Baffle Plate	TYPE			DEPTH	557	DEPTH		SHOE	TYPE	Guide	TYPE			DEPTH	597	DEPTH	
Foot	TYPE	Baffle Plate	TYPE																	
	DEPTH	557	DEPTH																	
SHOE	TYPE	Guide	TYPE																	
	DEPTH	597	DEPTH																	
Head & Plugs	<input type="checkbox"/> TBG	<input type="checkbox"/> D.P.	SQUEEZE JOB																	
<input type="checkbox"/> Double	SIZE	TOOL	TYPE																	
<input type="checkbox"/> Single	<input type="checkbox"/> WEIGHT		DEPTH																	
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAJ PIPE/SIZE	DEPTH																	
<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME	Bbls																	
TOP <input type="checkbox"/> OR <input type="checkbox"/> OW	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL	Bbls																	
BOT <input type="checkbox"/> OR <input type="checkbox"/> OW	DEPTH	TOTAL	Bbls																	
			ANNUAL VOLUME																	
			Bbls																	

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 245 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT 1000 PSI BUMP PLUG TO 530 PSI

ROTATE 0 RPM RECIPROCATATE 0 FT No. of Centralizers 5

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: 1100 DATE: 6-3			ARRIVE ON LOCATION TIME: 1030 DATE: 6-3		LEFT LOCATION TIME: 6-3 DATE: 1300	
0001 to 2400	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			

TIME	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
1030								PRE-JOB SAFETY MEETING
1145		1500						Test Lines
1147		146	25	0	5.7	H ₂ O	8.32	Start Water
1151		190	59	25	5.7	Cmt	12.8	Start Lead Cement
1201		99	32	84	4.0	Cmt	14.6	Start Tail Cement
1209		50		116			2.50	Shut down
1210		85	38	30	5.2	H ₂ O	8.32	Drop Top Plug Start Displacement
1215		140		146	2.0	H ₂ O	8.32	Slow Rate
1218		530						Bump Top Plug
1219		250						Close in head
								Job Complete

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 30 1997

CONSERVATION DIVISION
WICHITA, KS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY		
1.	175	1.89	50/50 Po2/C	6 to D29.3% SI	5 to D44 (Brow)	1415 D29/5K	59	12.8
2.	150	1.22	50/50 Po2/C	2.5% SI	1415 D29/5K		32.5	14.6
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 530 MIN: 50
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	<input type="checkbox"/> CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surface <input type="checkbox"/> YES <input type="checkbox"/> NO 15 (60%) Bbls.
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL.	Bbls
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input checked="" type="checkbox"/>	<input type="checkbox"/> WIRELINE
PERFORATIONS	CUSTOMER REPRESENTATIVE	DS SUPERVISOR		
TO	Jeff Lasiter	David L. Brawley		
TO				

CEMENTING SERVICE REPORT

Schlumberger
Dowell

TREATMENT NUMBER: 000-0444 DATE: 6-5-97
STAGE: 1 DS: U15525, KS DISTRICT: KS

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

WELL NAME AND NO.: Moorehead #3
LOCATION (LEGAL): Sec 19-31S-35W
FIELD-POOL: Hugoton
FORMATION: Chase
COUNTY/PARISH: Stevens STATE: KS API. NO.:

RIG NAME: Hyssos, KS Norsman #2
WELL DATA: BIT SIZE 77/8 CSG/Liner Size 5 1/2
TOTAL DEPTH 2910 WEIGHT 14
MUD TYPE Gel GRADE US50
MUD DENSITY 9.2 LESS FOOTAGE SHOE JOINT(S) 46
MUD VISC. 33 Disp. Capacity 69.7

NAME: Mobil Exp US Inc.
ADDRESS:
ZIP CODE:

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
Orifice Fill: 2856
Guide: 2902

ORIGINAL

IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE 1710 PSI CASING WEIGHT SURFACE AREA (3.14 x R²)
PRESSURE LIMIT 2000 PSI BUMP PLUG TO 1500 PSI
ROTATE 0 RPM RECIPROCATE 0 FT No. of Centralizers 12

Head & Plugs: TBG D.P. SQUEEZE JOB
 Double Single Swage Knockoff
TOP NEW USED
BOT OR OW DEPTH

JOB SCHEDULED FOR TIME: 1300 DATE: 6-5
ARRIVE ON LOCATION TIME: 1300 DATE: 6-5
LEFT LOCATION TIME: 1730 DATE: 6-5

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								PRE-JOB SAFETY MEETING
1547		2500				H ₂ O		Test Lines
1550		250	35	0	5.7	H ₂ O	8.32	Start Water
1554		365	110	35	5.7	Cmt	11.5	Start Lead Cement
1615		239	24.5	145	5.7	Cmt	14.8	Start Tail Cement
1619		50	(10)	169.5				Shut down Wash Lines
1622		90	60		5.9	H ₂ O	8.32	Drop Top Plug Start Displace
1632		650	9.7	279.5	2.0	H ₂ O	8.32	Slow Rate
1637		1500		389.2				Bump Top Plug
1639		0						Bleed off Float Holding
1642								Job Complete

RECEIVED
KANSAS CORPORATION COMMISSION
SEP 30 1997
CONSERVATION DIVISION
WICHITA, KS

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY		
1.	225	2.75	Class C + 3% D79	0.2% D46	1/4" D29/SK	110	11.5	
2.	100	1.37	Class C + 2% B28, 2% S1	0.6% D46	1/4" D29/SK	24.4	14.8	
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST
DISPLACEMENT VOL. 69.8 Bbls
MEASURED DISPLACEMENT WIRELINE
CUSTOMER REPRESENTATIVE: Jeff Lasiter
SUPERVISOR: David J. Browley