

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

ORIGINAL

API NO. 15- 189-21,511-0000 JAN 27

County Stevens CONFIDENTIAL

SE - NE Sec. 13 Twp. 31S Rge. 35 X U

Operator: License # 5208

Name: Mobil Oil Corporation

Address 2319 North Kansas

City/State/Zip Liberal, KS 67901

Purchaser: Permian

Operator Contact Person: Rae Kelly

Phone (316) 626-1160

Contractor: Name: Unit Drilling & Exploration Co

License: 9137

Wellsite Geologist: H. Y. Wong

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/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

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

9/30/91 10/10/91 10/20/91

Spud Date Date Reached TD Completion Date

3373 Feet from SYM (circle one) Line of Section

710 Feet from EYW (circle one) Line of Section

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

Lease Name Ruella Potts Well # 1

Field Name Lahey-Morrow

Producing Formation Morrow

Elevation: Ground 2940.6 KB 2957

Total Depth 5860 PBSD 5825

Amount of Surface Pipe Set and Cemented at 1762 Feet

Multiple Stage Cementing Collar Used? X Yes X No

If yes, show depth set NA 3/13 Feet

Alternate II completion, cement circulated from NA

feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan must be collected from the Reserve Pit

Chloride content 2300 ppm Fluid volume NA bbls

Disastering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

Quarter Sec. Twp. S Rng. E/W

County Docket No.

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JAN 29 1992

CONSERVATION DIVISION WICHITA, KS

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 R. Kelly

Title ENGINEERING TECHNICIAN Date 1/28/92

Subscribed and sworn to before me this 28th day of January, 1992.

Notary Public Sharon A. Cook

Date Commission Expires 10-1-94



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)

Operator Name Mobil Oil Corporation

Lease Name Ruella Potts

Well # 1

Sec. 13 Twp. 31S Rge. 35

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.)

Log Formation (Top), Depth and Datum Sample

Name Top Datum

SEE ATTACHED EXHIBIT I

List All E.Logs Run:

Spectral Density Dual Spaced Neutron II Log
Compensated Sonic Log
Microlog
Complex Lithology Analysis
Dual Induction Laterolog

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#	1762	CL "C"	495	65:35:6+3%CC
					CL "C"	320	+3%CC
Production Csq.	7.875	5.5	15.5#	5860	Poz-H	Stg. 1 460	50:50
					Poz-H	Stg. 2 700	50:50+2%CC

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
4 SPF	5329'-5349'	

TUBING RECORD Size 2 7/8" Set At 5349' Packer At 5300' Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 10/20/91 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 219 Bbls. Gas 0 Mcf Water 0 Bbls. Gas-Oil Ratio 2.29 Gravity

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

DATE OF COMPLETION 10/20/91

Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval 5329'-5349'

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EXHIBIT I

FORMATION TOPS
RUELLA POTTS #1
SE NE SECTION 13-31S-35W
STEVENS COUNTY, KANSAS

<u>FORMATION</u>	<u>TOP</u>
B/Stone Corral	1782
Chase Group/Herington	2554
Council Grove	2866
Admire	3092
Wabaunsee	3245
Heebner	4018
Lansing	4142
Kansas City	4456
Marmaton	4778
Cherokee	4974
Atoka	5222
Morrow	5296
Chester	5456
St. Genevieve	5588
St. Louis	5666

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CONSERVATION DIVISION
WICHITA, KS

CEMENTING SERVICE REPORT

#1 ORIGINALS

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	DATE
23-12-4053	12-1-91
STAGE	DISTRICT
Ulysses, Kc	

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO.	LOCATION (LEGAL)
Ruella Potts #1	Sec. 13-31s-35cc
FIELD-POOL	FORMATION

RIG NAME:	UNIT DRILLING #19	KCC
WELL DATA:	BOTTOM	TOP

COUNTY/PARISH	STATE	API. NO.
Stevens	Ks.	

BIT SIZE	CSG/LINE SIZE		
12 1/4	8 1/2		
TOTAL DEPTH	WEIGHT		JAN 27
1702	24		
ROT CABLE	FOOTAGE		
MUD TYPE	GRADE		CONFIDENTIAL
	KSS		
BHST	THREDS		
BHCT	8RD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)		
	45.5		
MUD VISC.	Disp. Capacity		
	110		

NAME: Mobil Oil Corp.

AND

ADDRESS

SPECIAL INSTRUCTIONS

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 724 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO 1190 PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers 10

Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
	Orifice Fill	1728.5			
SHOE	TYPE	DEPTH			
	Texas RA 4044	1774			

Head & Plugs TBG D.P. SQUEEZE JOB

Double Single Swage Knockoff

TOP NEW USED BOT CW

TIME SCHEDULED FOR 0600 12-1-91 ARRIVE ON LOCATION 0600 12-1-91 LEFT LOCATION 0-1-91

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0843		20	10		10	H2O					
0845		200	175		6	cmf. 12.4					
0909		230	75		4 1/2	cmf. 14.8					
0925											
0925		10	110		6.7	H2O					
0931		190		30	6.7	H2O					
0934		230		50	4	H2O					
0939		250		70	4	H2O					
0941		320		90	4	H2O					
0944		380		90	4	H2O					
0947		360		101	2	H2O					
0951		1190		110	2	H2O					

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBL/S	DENSITY
1.	495	1.99	65%	35po2 + 6% D2O + 3% cacl2	175.4	12.4
2.						
3.	320	1.33		class C + 3% cacl2	175.8	14.8
4.						
5.						
6.						

BREAKDOWN FLUID TYPE HESITATION SO. RUNNING SO. CIRCULATION LOST YES NO

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 110 Bbls

Washed Thru Perls YES NO TO FT. MEASURED DISPLACEMENT 110 WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE CLIFF Roberts DS SUPERVISOR James Esquivel

CEMENTING SERVICE REPORT

ORIGINAL

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 3-12-4053 DATE: 10-1-91
 STAGE: DS DISTRICT: WYUSA KC

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO.: Ruella Potts #1 LOCATION (LEGAL): Sec 13-21s-35u FIELD-POOL: Stevan FORMATION: Kc
 COUNTY/PARISH: Stevan STATE: Kc API. NO.:
 NAME: Mobil Oil Corp
 ADDRESS: ZIP CODE:
 SPECIAL INSTRUCTIONS: ONE inch cement to surface
 RIG NAME: Unit Drilling #19
 WELL DATA: BIT SIZE: KCO CSG/Liner Size: TOTAL DEPTH: WEIGHT: JAN 27
 ROT CABLE FOOTAGE: MUD TYPE: GRADE: CONFIDENTIAL
 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
 Head & Plugs: TBG D.P. SQUEEZE JOB: Double Single Swage Knockoff
 SIZE: WEIGHT: GRADE: THREAD: TAIL PIPE: SIZE: DEPTH: TUBING VOLUME: Bbls
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: PSI CASING WEIGHT + SURFACE AREA (3.14 x R²):
 PRESSURE LIMIT: PSI BUMP PLUG TO: PSI
 ROTATE: RPM RECIPROCATE: FT No. of Centralizers: TOP OR W NEW USED CASING VOL. BELOW TOOL: Bbls
 BOT OR W DEPTH: TOTAL: Bbls
 ANNUAL VOLUME: Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: DATE:			ARRIVE ON LOCATION TIME: DATE:	LEFT LOCATION TIME: DATE:
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME/400	DATE: 10-1-91
0001 to 2400									
1236	10	6			2	H ₂ O			PRE-JOB SAFETY MEETING
1240	40	42			2	cmf	14.4		start H ₂ O ahead
1248	280	16			2	cmf	14.4		start cement slurry
1301	100					cmf	14.4		psi check
									cement to surface shut down
									PHD job

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CONSERVATION DIVISION WICHITA, KS

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY
1.	155	1.33	class C + 2% CaCl ₂		42	14.4
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE: HESITATION SO. RUNNING SO. CIRCULATION LOST: YES NO Cement Circulated To Surf.: YES NO Bbls:
 BREAKDOWN: PSI FINAL: PSI DISPLACEMENT VOL.: Bbls TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 Washed Thru Perfs: YES NO TO: FT. MEASURED DISPLACEMENT: WIRELINE
 PERFORATIONS: CUSTOMER REPRESENTATIVE: Cliff Roberts DS SUPERVISOR: James Esquivel



ORIGINAL THE WESTERN COMPANY CEMENT JOB DETAIL SHEET

KCC

JAN 27

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CUSTOMER			DATE	FR #	SER. SUP.	TYPE JOB							
LEASE & WELL NAME-OCSG			LOCATION		COUNTY-PARISH-BLOCK								
DISTRICT		DRILLING CONTRACTOR-RIG #			OPERATOR								
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE		SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES						
	TOP BTM	STAGE SET	BAKER				SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
460 700	50/50 Poz-H						14.2	1.26	5.75	1-1/2	103	6.3	
	50/50 Poz-H 2% C.C.						14.2	1.26	5.75	4-	157	9.6	
Available Mix Water 500 Bbl.			Available Displ. Fluid 500 Bbl.			TOTAL							
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
7 7/8	10	5860	5 1/2	15.5	K55	5867	-	-	-	-	5860	5816	3113
LAST CASING'S			PKR-CMT RET-BR PL-LINER			PERF. DEPTH:		TOP CONN.		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
8 5/8	29	K55							5 1/2	8 1/2			
CAL. DISPL. VOL. -Bbl.			CAL. PSI	CAL. MAX PSI	OP. MAX.	MAX TBG. PSI	MAX CSG PSI	DISPL. FLUID	WATER				
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG TO REV.	SO. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE	
	158.5	79.1		100	300			1000	1500	14 1/2	2.3	R16	
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:													
PRESSURE/RATE DETAIL						EXPLANATION							
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED.	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP. <input type="checkbox"/>							
	PIPE	ANNULUS				TEST LINES 1000 PSI @ 07:30							
						CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input type="checkbox"/>							
7:37	400		6.7	20	H2O	H2O AHEAD							
7:40	400		6	103	Cmt	Mix Cmt (460) (23)							
8:00						DAND PLUG (WASH DAND)							
8:07	200		6.7	0	H2O	Disp w/ H2O + mud (24)							
8:26	600	1800	3	138.5	H2O	Bump Plug							
8:26	0					Check Float (600-1800)							
8:28						DAND-BOMB							
8:39	200	300	3	10		Open Tool							
8:40						Circ w/ RIG							
						2% STAB							
10:35	300				H2O	H2O AHEAD							
10:39	400				Cmt	Mix Cmt (700)							
11:08						DAND PLUG (CHECK ON)							
11:09	200	300			H2O	Disp w/ KANSAS							
11:22	600	1800				Bump Plug							
						Check Float							
BUMPED PLUG						PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP.	
(Y) N											CUMMINGS		

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