SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
RECOMPLETION FORM
ACO-2 AMENDMENT TO WELL HISTORY

FORMALLY THE OWEN DOWDY WELL #4

API No. 15- 189-21035-0001

COUNTY STEVENS

S/2 NE SE Sec 36 Twp 32S Rge 35 __ East X West

1840 Ft North from Southeast Corner of Section
660 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name MARCELLUS #1 UNIT WELL # 3

Field Name ~~W~~ SHUCK, NW

Name of New Formation MORROW/CHESTER

Elevation: Ground 2931 FT. KB 2945' FT.

Operator: License # 5208
Name MOBIL OIL CORPORATION
Address P.O. BOX 5444
City/State/Zip DENVER, COLORADO 80217

Purchaser NORTHERN NATURAL GAS (ENRON)

Operator Contact Person B. R. MAYNARD

Phone (303) 298-2069

Designate Type of Original Completion
XX New ___ Re-Entry ___ Workover

___ Oil ___ SWD XX Temp Abd
___ Gas ___ Inj ___ Delayed Comp.
___ Dry ___ Other (Core, Water Supply, etc.)

Date of Orginal Completion: 5-9-87 TA'D 6-8-87

DATE OF RECOMPLETION
4-11-88 Commenced 5-6-88 Completed

Designate Type of Recompletion / Workover:

___ Deepening ___ Delayed Completion

___ Plug Back XX Re-perforation

___ Conversion to Injection / Disposal

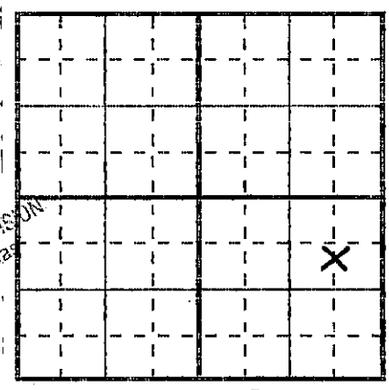
Is recompletion production:

XX Commingled; Docket No. CD-7883

___ Dual Completion; Docket No. ___

___ Other (Disposal or Injection)?

SECTION PLAT



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K.C.C. OFFICE USE ONLY
F __ Letter of Confidentiality Attached
C __ Wireline Logs Received
C __ Drillers Timelog Received

Distribution
✓ KCC ___ SWD/Rep ___ NGPA
✓ KGS ___ Plug ___ Other (Specify)

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 recompletion of any well. Rules 82-3-107 and 82-3-141 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 any additional wireline logs and driller's time logs (not previously submitted) shall be attached with this form. Submit ACO-4 prior to or with this form for approval of commingling or dual completions. Submit CP-111 with all temporarily abandoned wells. NOTE: Conversion of wells to either disposal or Injection MUST receive approval before use; submit form U-1.

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 B. R. Maynard B. R. MAYNARD Title REGULATORY COMPLIANCE ENGINEER Date 8-16-88

Subscribed and sworn to before me this 16th day of August 19 88

Notary Public Joyce George Date Commission Expires 1/3/91

JOYCE GEORGE NOTARY PUBLIC STATE OF COLORADO

Form ACO-2 (5-88)

SIDE TWO

Operator Name__MOBIL OIL CORPORATION_____ Lease Name__MARCELLUS #1 UNIT_____Well #__3____

___East
Sec__36__ Twp_32S__ Rge__35__ _XX_West County___STEVENS_____

RECOMPLETION FORMATION DESCRIPTION
__XX__ Log _____ Sample

Name	Top	Name	Top
CHASE	2627'	CHEROKEE	5249'
WINFIELD	2727'	MORROW	5664'
COUNCIL GROVE	2970'	CHESTER	5917'
ADMIRE	3229'	STE. GENEVIEVE	6174'
WABAUNSEE	3350'	ST. LOUIS	6291'
LANSING	4226'		
KANSAS CITY	4649'		
MARMATON	5060'		

CONTINUED TOP RIGHT

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type & Percent Additives
___Perforate	_6105'_____	_CL C_____	__2 SX____	
___Protect Casing				
_XX_Plug Back TD				
___Plug Off Zone				

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record
___4 SPF_____	__5866'-5876'_____	_FRAC'D W/21,500 GALS GELLED ACID_____
___4 SPF_____	__5923'-5931'_____	_FRAC'D W/14,400 GALS GELLED ACID_____
___4 SPF_____	__5993'-6006'_____	_FRAC'D W/21,500 GALS GELLED ACID_____

PBTD__6105'__FT. Plug Type__CAST IRON BRIDGE PLUG_____

TUBING RECORD:

Size__NA_____ Set At_____FT. Packer At_____FT. Was Liner Run_____Y __XX__N

Date of Resumed Production, Disposal or Injection ___WAITING ON PIPELINE

Estimated Production Per 24 Hours: __0_____bbl/oil __15_____bb/water
__355____MCF gas __----___gas-oil ratio

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO OWEN DOWDY #4 AFE # 6EJ9

DATE 4-11-88	REPORT NO 1	COMP STARTED 4-11-88	STATUS Setting CIBP
SUPVR M. R. Schechter		FIELD North Shuck	FORMATION Lower Chester / API WELL #
ENG M. P. Stackhouse		AREA Hugoton	PERF'S 6149 - 6198
RIG Patrick 16		COUNTY Stevens	CASING DETAIL
KB 2945	ZERO 2931	STATE Kansas	8 5/8", 24#, K-55 @ 1746
TD 6370		MOBIL W.I. 100%	5 1/2", 14#, K-55 @ 6370
PBTD 6267	FROM	JOB CLASSIFICATION 12	@
			UNR TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC			
CUM. REC			
LOAD			
LEFT TO REC			

GAS SP. GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				Rig up Rosel - RIH w/CIBP - Started hitting tight spots at 4130 - could go down but not up - Run to 6100 hung up again. got loose going down - tried to find collars but got hung up - released BP @ 6143 - couldn't pull setting tool - pulled out of rope socket - Run Acme overshot on 2 7/8 tbg - recovered tool + trip out - dumped 2 sx cement w/bailer - TIH w/196 jts 2 7/8 - Circulate csng - pressure test BP + BOP - pumped past BP 3 BPM @ 1100 psi. SIOW

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AFE APPROVED		ACTUAL	
		DAILY COMP $	
		PREVIOUS COMP $	
DRY HOLE $		CUMULATIVE COMP $	
SUSPENDED $		SUSPENDED COST $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-12-88	REPORT NO 2	COMP STARTED 4-11-88	STATUS Setting CIBP - Perforate
SUPVR. M.R. Schechter		FIELD North Shuck	FORMATION / API WELL #
ENG M. P. Stackhouse		AREA Hugoton	PERF'S 5993 - 6006
RIG Patrick 16		COUNTY Stevens	CASING DETAIL
KB 2945	ZERO 2931	STATE Kansas	8 5/8", 24#, K-55 @ 1746
TD 6370		MOBIL W.I. 100%	5 1/2", 14#, K-55 @ 6370
PBTD ~~6367~~ 6105	FROM	JOB CLASSIFICATION 12	@
			LNR TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC			
CUM. REC			
LOAD			
LEFT TO REC			

GAS SP. GRAV.
OIL GRAV. @ °F
CHLORIDES
ACID FRAC

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				Pulled TBG - Run CIBP to 6120 - Run Bailer w/25x cement. Top of Cement @ 6105 - Run 196 jts TBG (2 7/8) - Circulate hole - tested BP + BOP to 2000psi. Swab to 5200 ft. - Pull TBG - Perforate 5993-6006 w/4spf - Run Model "R" Packer on 192 jts 2 7/8 + set @ 5960 SION

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AFE APPROVED		ACTUAL	
		DAILY COMP $	
		PREVIOUS COMP $	
DRY HOLE $		CUMULATIVE COMP. $	
SUSPENDED $		SUSPENDED COST $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-13-88	REPORT NO. 3	COMP STARTED 4-11-88	STATUS Acid Frac
SUPVR M. R. Schechter		FIELD North Shuck	FORMATION Upper Chester / API WELL #
ENG M. P. Stackhouse		AREA Hugoton	PERF'S 5993 - 6006
RIG Patrick 16		COUNTY Stevens	CASING DETAIL
KB 2945	ZERO 2931	STATE Kansas	8 5/8", 24#, K-55 @ 1746
TD 6370		MOBIL W.I. 100%	5 1/2", 14#, K-55 @ 6370
PBTD ~~6267~~ 6105	FROM	JOB CLASSIFICATION 12	@
			LNR TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC			
CUM REC			
LOAD			
LEFT TO REC			

GAS SP. GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				10# on tbg - FL @ 4400 Swab to SN on 2nd
				run Recovered 11 BAL - 3rd run dry 31 + prepare to Frac
				4:00 Pm - Frac per Frac Report
				SION

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AFE APPROVED		ACTUAL	
		DAILY COMP $	
		PREVIOUS COMP $	
DRY HOLE $		CUMULATIVE COMP $	

Mobil Oil Corporation
FRAC DATA REPORT

WELL NAME AND NUMBER: Owen Dowdy #4 DATE: 4-13-88

STATE: KANSAS COUNTY: Stevens FIELD: N. Shuck

FORMATION: Upper Chester PERFS: 5993 - 6006

STAGE	RATE-BPM	FLUID	CLEAN VOLUMES-GAL	PPG	SIZE PROPPANT	TUBING PRESSURE-PSI	CASING PRESSURE-PSI	PROPPANT-LBS
1	8	WF-140	1500	—	—	1600	500	—
2	8	DGA-215	1500	—	—	2000	460	—
3	8	2% KCL	2500	—	—	2270	420	16 Ball Sealers
4	8	WF-140	1500	—	—	2620	320	—
5	8	DGA-215	1500	—	—	2540	280	—
6	8	2% KCL	2500	—	—	2800	200	16 Ball Sealers
7	8	WF-140	1500	—	—	2710	160	—
8	8	DGA-215	1500	—	—	2600	110	—
9	8	2% KCL	2500	—	—	2600	70	14 Ball Sealers
10	8	WF-140	1500	—	—	2770	10	—
11	8	DGA-215	1500	—	—	2700	-20	—
12	8	2% KCL	2000	—	—	3000	-60	—
	TOTALS		21,500					

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ISIP: 2160 BASE FLUID: Duo-Frac (Gelled Acid)

MAXIMUM PRESSURE: 3000 BREAKDOWN PRESSURE: 2800

ISDP: 2160 5 MIN: 2007 10 MIN: 1980 15 MIN: 1940

SERVICE LOCATION AND SERVICE ENGINEER: Ulysses. Charles Camberd

SERVICE COMPANY: Dowell - Schlumberger

REMARKS: Extremely Tight Rock! Fracture Gradient Calculated out to .79 psi/ft.

MOBIL ENGINEER: M.P. Stackhouse SUPERVISOR: M. R. Schrechter

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN HOWDY #4 AFE # 6010

DATE 4-11-88	REPORT NO. 4	COMP STARTED 4-11-88	STATUS Recover Frac Fluid
SUPVR. M.R. Schechter		FIELD North Shuck	FORMATION Upper Chester API WELL #
ENG M. P. Stackhouse		AREA Hugoton	PERF'S 5993 - 6006
RIG Patrick 16		COUNTY Stevens	CASING DETAIL
KB 2945	ZERO 2931	STATE Kansas	8 5/8", 24#, K-55 @ 1746
TD 6370		MOBIL W.I. 100%	5 1/2", 14#, K-55 @ 6370
PBTD ~~6367~~ 6105	FROM	JOB CLASSIFICATION 12	@
			LNR TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC	101		
CUM. REC			
LOAD	601		
LEFT TO REC	500		

GAS SP. GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				900# on tbg - Tried to release pressure to
				Swab tank - Well started flowing - flowed from 8 AM
				to 10 PM - recovered 101 BBL

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AFE APPROVED	ACTUAL	
	DAILY COMP $	
	PREVIOUS COMP $	
DRY HOLE $	CUMULATIVE COMP. $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-15 & 16-88	REPORT NO 5	COMP STARTED 4-11-88	STATUS Flow test
SUPVR M. R. Schechter	FIELD North Shuck	FORMATION Upper Chester	API WELL #
ENG M. P. Stackhouse	AREA Hugoton	PERF'S 5493 - 6006	
RIG Patrick 16	COUNTY Stevens	CASING DETAIL	
KB 2945 ZERO 2931	STATE Kansas	8 5/8", 24#, K-55	@ 1746
TD 6370	MOBIL W.I. 100%	5 1/2", 14#, K-55	@ 6370
PBTD ~~6267~~ 6105 FROM	JOB CLASSIFICATION 12		@
		LNR	TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC	131		
CUM REC	101		
LOAD	601		
LEFT TO REC	369		

GAS SP. GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES 70,000
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				4-15 - 55# on TBG - Blow down & swab for
				1 hr. - well kicked off - Recovered 101 BBL by 5:00 Pm
				flowed well all night
				From 5:00 Pm Fri to Sat 7:00 Am recovered 6.5 BBL
				9:15 Pm Sat - flowing approx 170 MCFD on 3/8 choke
				Total recovered Fri & Sat = 131 BBL
				Shut in until Monday 4-18

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AFE APPROVED		ACTUAL	
		DAILY COMP. $	
		PREVIOUS COMP $	
DRY HOLE $		CUMULATIVE COMP. $	
SUSPENDED $		SUSPENDED COST $	
COMPLETED $		ACCUM. COST $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6E19

DATE 4/18-4/20/88	REPORT NO 6	COMP STARTED 4-11-88	STATUS Flow test
SUPVR M. P. Schechter	FIELD North Shuck	FORMATION Upper Chester	API WELL #
ENG M. P. Stackhouse	AREA Hugoton	PERF'S 5993 - 6006	
RIG Patrick 16	COUNTY Stevens	CASING DETAIL	
KB 2815 ZERO 2031	STATE Kansas	8 5/8", 24#, K-55 @ 1146	
TD 6370	MOBIL W.I. 100%	5 1/2", 14#, K-55 @ 6370	
PBTD ~~6287~~ 6105 FROM	JOB CLASSIFICATION 12	@	
		LNR TO	

	BBLS WATER	BBLS OIL	MCF
DAILY REC	21		
CUM REC	253		
LOAD	601		
LEFT TO REC	348		

GAS SP. GRAV
OIL GRAV. @ °F
CHLORIDES
ACID FRAC

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				4-18- 1430 PSI on Tbg - Start flow thru 3/8 choke -
				flowed all day 5 to 800 PM - 180 MCFD
				4-19 - 1600 PSI - Start flow thru 3/8 choke - flow till
				5:00 PM - 175 MCFD Total recovery for 2 days - 21 BBL
				4-20 - 1200 PSI - Blow well down - pumped 50 BBL
				2% KCL to kill well bore - Tried to unseat packer - wouldn't
				open by pass - Pulled to 70M# wouldn't move - Rig up Dia-log
				& Run free point - packer seemed to be missing - singled out
				lines & pulled 80M# pulled [illegible] & pump
				down backside - cung wee full - left tension & Tbg
				overnight to see if it would release 10M thru by pass
				Signs

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AFE APPROVED	ACTUAL	
	DAILY COMP. $	
	PREVIOUS COMP $	
DRY HOLE $	CUMULATIVE COMP. $	
SUSPENDED $	SUSPENDED COST $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-21-88	REPORT NO 7	COMP STARTED 4-11-88	STATUS Set RBP & circulate
SUPVR M.R. Schechter	FIELD North Shuck	FORMATION Upper Chester	API WELL #
ENG M. D. Stackhouse	AREA Hugoton	PERF'S 5955-6006	
RIG Patrick 16	COUNTY Stevens	CASING DETAIL	
KB 2945 ZERO 2931	STATE Kansas	8 5/8", 24#, K-55	@ 1746
TD 6370	MOBIL W.I 100%	5 1/2", 14#, K-55	@ 6370
PBTD ~~6267~~ 6105 FROM	JOB CLASSIFICATION 12		@
		LNR	TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC			
CUM. REC			
LOAD			
LEFT TO REC			

GAS SP GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				Rig up Dia-log to perforate tbg - 2 shots 15 ft above pkr - equalized fluid & pulled pkr -
				TBG showed to have had sand above pkr on back side
				Run RBP to 5982 - Tested BP & BOP to 2000# -
				circulate hole w/2% KCL - Pulled TBG - SION

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AFE APPROVED		ACTUAL	
		DAILY COMP $	
		PREVIOUS COMP $	
DRY HOLE $		CUMULATIVE COMP. $	
SUSPENDED $		SUSPENDED COST $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-22-88	REPORT NO. 8	COMP STARTED 4-11-88	STATUS Perforate & Acid Frac
SUPVR. M. P. Schechter		FIELD North Shuck	FORMATION Lower Chase / ADJ WELL #
ENG M. P. Stackhouse		AREA Hugoton	PERFS 5923 - 5931
RIG Patrick 16		COUNTY Stevens	CASING DETAIL
KB 2945 ZERO 2931		STATE Kansas	8 5/8", 24#, K-55 @ 1746
TD 6370		MOBIL WI 100%	5 1/2", 14#, K-55 @ 6370
PBTD ~~6267~~ 6105 FROM		JOB CLASSIFICATION 12	@
			LNR TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC	73		
CUM REC	73		
LOAD	378		
LEFT TO REC	305		

GAS SP. GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

DD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				Rig up Rosel - perforate 5923-5931 w/ 4SPF -
				Run Model "R" pkr & set @ 5883 on 2 7/8 tbg -
				Rig up DS & Acid Frac as per Frac Report -
				Start to flow back 30 min after frac - recovered
				73 BBL in 2 hr - well dead - SIDN

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AFE APPROVED		ACTUAL		
		DAILY COMP	$	
		PREVIOUS COMP	$	
DRY HOLE	$	CUMULATIVE COMP	$	
SUSPENDED	$	SUSPENDED COST	$	

Mobil Oil Corporation
FRAC DATA REPORT

WELL NAME AND NUMBER: Owen Dowdy #1 DATE: 4-22-88

STATE: Kans COUNTY: Stevens FIELD: N. Shuck

FORMATION: Upper Chester PERFS: 5923-5931

STAGE	RATE-BPM	FLUID	CLEAN VOLUMES-GAL	PPG	SIZE PROPPANT	TUBING PRESSURE-PSI	CASING PRESSURE-PSI	PROPPANT-LBS
1	8	WF-140	1334			1680	500	
2	8	DGA-215	1334			2430	400	
3	8	2% KCL	2200			2220	350	14-Ball sealers
4	8	WF-140	1333			1520	350	
5	9	DGA-215	1333			1740	350	
6	10	2% KCL	2200			1580	450	14-Ball sealers
7	10	WF-140	1333			1870	550	
8	10	DGA215	1333			1990	600	
9	10	2% KCL	2000			1900	600	
	TOTALS		14,400					

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ISIP: 960 BASE FLUID: Dual-Frac. (Gelled Acid)

MAXIMUM PRESSURE: 2000 BREAKDOWN PRESSURE: 2450

ISDP: 960 5 MIN: 840 10 MIN: 780 15 MIN: 740

SERVICE LOCATION AND SERVICE ENGINEER: Ulysses - Charles Cambern

SERVICE COMPANY: Dowell - Schlumberger

REMARKS:

MOBIL ENGINEER: Stack Jensen SUPERVISOR: [illegible]

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO OWEN DOWDY #4 AFE # 6E.19

DATE 4-23-88	REPORT NO 9	COMP STARTED 4-11-88	STATUS Swabbing
SUPVR. M.R. Schechler	FIELD North Shuck	FORMATION Upper Chester	API WELL #
ENG M. P. Stackhouse	AREA Hugoton	PERF'S 5923 - 5931	
RIG Patrick 16	COUNTY Stevens	CASING DETAIL	
KB 2945 ZERO 2931	STATE Kansas	8 5/8", 24#, K-55	@ 1746
TD 6370	MOBIL WI 100%	5 1/2", 14#, K-55	@ 6370
FBTD ~~6267~~ 6105 FROM	JOB CLASSIFICATION 12		@
		LNR	TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC	78		
CUM. REC	151		
LOAD	378		
LEFT TO REC	227		

GAS SP. GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				20# on tbg - Blow decreased to steady swabbing -
				FL @ 1000. Swab all day. Little blow behind swab.
				Recovered 78 BBL. swabbing off SN at end of day -
				SI @ 5:00 for weekend -

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AFE APPROVED	ACTUAL	
	DAILY COMP. $	
	PREVIOUS COMP $	
DRY HOLE $	CUMULATIVE COMP $	
	WORKOVER EXPT $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-25 & 26-88	REPORT NO 10	COMP STARTED 4-11-88	STATUS Flow test
SUPVR. M.R. Schechter	FIELD North Shuck	FORMATION Upper Chester	API WELL #
ENG M. P. Stackhouse	AREA Hugoton	PERF'S 5923-5931	
RIG Patrick 16	COUNTY Stevens	CASING DETAIL	
KB 2945 ZERO 2931	STATE Kansas	8 5/8", 24#, K-55	@ 1746
TD 6370	MOBIL W.I. 100%	5 1/2", 14#, K-55	@ 6370
PBTD ~~6267~~ 6105 FROM	JOB CLASSIFICATION 12		@
		LNR	TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC.	17		
CUM. REC.	168		
LOAD	378		
LEFT TO REC.	210		

GAS SP. GRAV ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				4-25 - 1200# on tbg. Flow test on 3/8 choke -
				SI @ 7:00 PM - recovered 10 BBL fluid - 250 MCFD
				4-26 - 1220# on tbg - Flow test on 3/8 choke -
				SI @ 5:00 PM - recovered 7 BBL fluid - 200 MCFD

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AFE APPROVED		ACTUAL	
		DAILY COMP. $	
		PREVIOUS COMP $	
DRY HOLE $		CUMULATIVE COMP $	
SUSPENDED $		SUSPENDED COST $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-27	REPORT NO 11	COMP STARTED 4-11-88	STATUS Perforating
SUPVR. M.R. Schechter		FIELD North Shuck	FORMATION Upper Chester / API WELL #
ENG M. P. Stackhouse		AREA Hugoton	PERFS 5866 - 5876
RIG Patrick 16		COUNTY Stevens	CASING DETAIL
KB 2945	ZERO 2931	STATE Kansas	8 5/8", 24#, K-55 @ 1746
TD 6370		MOBIL WI 100%	5 1/2", 14#, K-55 @ 6370
PBTD ~~6267~~ 6105	FROM	JOB CLASSIFICATION 12	@
			LNR TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC			
CUM REC			
LOAD			
LEFT TO REC			

GAS SP GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				Killed well w/40 BBL 2% KCL - Release & TOH w/ Packer
				flow retrieving tool - move RBP to 5886 - Test RBP & BOP
				to 2000# circulate w/140 BBL 2% KCL - Rig up McCullough
				and perforate 5866-5876 w/4SPF - Run Model "R" packer
				on 186 jts 2 7/8 TBNG and set @ 5875' -
				SIDN.

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AFE APPROVED	ACTUAL	
	DAILY COMP. $	
	PREVIOUS COMP. $	
DRY HOLE $	CUMULATIVE COMP. $	

Mobil Oil Corporation
FRAC DATA REPORT

WELL NAME AND NUMBER: Owens Dowdy #4 DATE: 4-28-88

STATE: Kans COUNTY: Stevens FIELD: N. Shuck

FORMATION: Lower Chester PERFS: 5866-5876

STAGE	RATE-BPM	FLUID	CLEAN VOLUMES-GAL	PPG	SIZE PROPPANT	TUBING PRESSURE-PSI	CASING PRESSURE-PSI	PROPPANT-LBS
1	4	WF-140	1500			930	490	
2	8	DGA-215	1500			1460	270	
3	10	2% KCL	2500			1750	250	12 Ball Sealers
4	10	WF-140	1500			1850	210	
5	10	DGA-215	1500			2050	190	
6	10	2% KCL	2500			1990	190	12 Ball Sealers
7	10	WF140	1500			2110	190	
8	10	DGA-215	1500			1930	180	
9	10	2% KCL	2500			2130	170	12 Ball Sealers
10	10	WF140	1500			1770	170	
11	10	DGA-215	1500			2120	170	
12	10	2% KCL	2000			2130	170	
	TOTALS		21,500					

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ISIP: 1250 BASE FLUID: Gelled Acid

MAXIMUM PRESSURE: 2140 BREAKDOWN PRESSURE: 1450

ISDP: 1750 5 MIN: 1040 10 MIN: 950 15 MIN: 910

SERVICE LOCATION AND SERVICE ENGINEER: DS - Ulysses Charles Canborn

SERVICE COMPANY: Dowell Schlumberger

REMARKS:

MOBIL ENGINEER: Stroebhorn SUPERVISOR: Schroeder

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-28-88	REPORT NO 12	COMP STARTED 4-11-88	STATUS Frac
SUPVR. M.R. Schechler	FIELD North Shuck	FORMATION	API WELL #
ENG M. P. Stackhouse	AREA Hugoton	PERF'S 5866-5876	
RIG Patrick 16	COUNTY Stevens	CASING DETAIL	
KB 2945 ZERO 2931	STATE Kansas	8 5/8", 24#, K-55	@ 1746
TD 6370	MOBIL W.I. 100%	5 1/2", 14#, K-55	@ 6370
PBTD ~~6267~~ 6105 FROM	JOB CLASSIFICATION 12		@
		LNR	TO

	BBLS WATER	BBLS OIL	MCF		TGB/WS/DP DATA				
DAILY REC.	118			GAS SP. GRAV.	OD	#/FT	GRADE	CONNECTION	LENGTH
CUM. REC.	118			OIL GRAV. @ °F					
LOAD	595			CHLORIDES					
LEFT TO REC.	477			ACID FRAC					

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				Rig up DS. frac as per frac Report - flow
				back to frac tank after 30 min - flowed 5hr
				recovered 118 BBL
				SION

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AFE APPROVED	ACTUAL	
	DAILY COMP $	
	PREVIOUS COMP $	
DRY HOLE $	CUMULATIVE COMP. $	
SUSPENDED $	SUSPENDED COMP. $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 4-28-29-88	REPORT NO 13	COMP STARTED 4-11-88	STATUS Flow test
SUPVR. M.R. Schechter	FIELD North Shuck	FORMATION	API WELL #
ENG M. P. Stackhouse	AREA Hugoton	PERF'S 5866-5876	
RIG Patrick 16	COUNTY Stevens	CASING DETAIL	
KB 2945 ZERO 2931	STATE Kansas	8 5/8", 24#, K-55	@ 1746
TD 6370	MOBIL W.I. 100%	5 1/2", 14#, K-55	@ 6370
PBTD ~~6267~~ 6105 FROM	JOB CLASSIFICATION 12		@
		LNR	TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC	30.5		
CUM. REC	42.6		
LOAD	595		
LEFT TO REC	169		

GAS SP. GRAV. ____
OIL GRAV. ____ @ ____ °F
CHLORIDES ____
ACID ____ FRAC ____

TGB/WS/DP DATA

DD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				4-28 - 70# on tbg - Swab all day
				Recovered 244 BBL - no kick behind swab
				Swabbing from 2500 ft SI @ 5:00 pm
				4-29 - 1200# on tbg - flow test all day on
				3/8 choke - SI @ 5:00 pm - 160# on 3/8 choke
				Recovered 64 BBL

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AFE APPROVED	ACTUAL	
	DAILY COMP. $	
	PREVIOUS COMP. $	
DRY HOLE $	CUMULATIVE COMP. $	

MOBIL DAILY COMPLETION OR WORKOVER REPORT

WELL NAME AND NO. OWEN DOWDY #4 AFE # 6EJ9

DATE 5/2-6/88	REPORT NO 14	COMP STARTED 4-11-88	STATUS Flow test - Pull RBP
SUPVR. M.R. Schechter	FIELD North Shuck	FORMATION	API WELL #
ENG M. P. Stackhouse	AREA Hugoton	PERFS 5866-76 5723-31 5993-6006	
RIG Patrick - 16	COUNTY Stevens	CASING DETAIL	
KB 2945 ZERO 2931	STATE Kansas	8 5/8", 24#, K-55	@ 1746
TD 6370	MOBIL W.I. 100%	5 1/2", 14#, K-55	@ 6370
PBTD ~~6267~~ 6100 FROM	JOB CLASSIFICATION 12		@
		LNR	TO

	BBLS WATER	BBLS OIL	MCF
DAILY REC			
CUM REC			
LOAD			
LEFT TO REC			

GAS SP. GRAV.
OIL GRAV. @ °F
CHLORIDES
ACID FRAC

TGB/WS/DP DATA

OD	#/FT	GRADE	CONNECTION	LENGTH

FROM	TO	HRS	OPER CODE	DESCRIPTION OF OPERATIONS
				5-2 - Flow test all day - recovered 12 BBL SION
				5-3 - Killed well w/80 BBL KCL - Pull Packer - retrieve
				BP - Pulled 34 stands tbg. Wind to high - SION
				5-4 - Finish pulling RBP. Run Model "R" Packer & set
				@ 5825 Start swabbing - well flowing 37 BBL
				SION
				5-5 - 1400# on tbg - flowed thru 3/8 choke @ 200#
				recovering 4 BPH gas rate approx 600 MCFD
				SION
				5-6 - 1460# on tbg - start flowing to frac tank
				Release rig - last work clean up for test -
				Final Report

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AFE APPROVED	ACTUAL	
	DAILY COMP $	
	PREVIOUS COMP $	
DRY HOLE $	CUMULATIVE COMP. $	