

7-32-34W

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AFFIDAVIT OF COMPLETION FORM

ACO-1



This form shall be filed in triplicate with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within ten days after the completion of the well, regardless of how the well was completed. Circle one: Oil, gas, dry, SWD, OWWO, injection. Type and complete ALL sections. Applications must be filed for dual completion, commingling, salt water disposal and injection. Attach wireline logs (i.e. electrical log, sonic log, gamma ray neutron log, etc.) KCC#-(316)263-3238.

OPERATOR Mobil Oil Corporation API NO. 15-175-20607
 ADDRESS P. O. Box 5444 COUNTY Seward
Denver, CO 80217-5444 FIELD Panoma

**CONTACT PERSON C. J. Park, Prod. Acctg. Supv. PROD. FORMATION Panoma Council Grove
 PHONE 303/572-2696 LEASE Plowman #1-A Unit

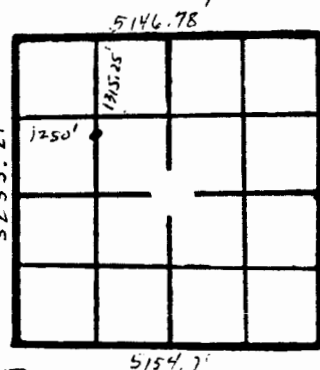
PURCHASER Northern Natural Gas WELL NO. #2

ADDRESS 2323 Dodge Street WELL LOCATION NW/4 Sec. 7-32S-34W
Omaha, Neb. 68102 1315 Ft. from North Line and
 1250 Ft. from West Line of
 the SEC. 7 TWP. 32S RGE. 34W

DRILLING Wakefield Drilling
 CONTRACTOR ADDRESS 300 West Douglas, Ste 500
Wichita, KS 67202

PLUGGING State Geological Survey
 CONTRACTOR ADDRESS WICHITA, BRANCH

TOTAL DEPTH 3120' PBTD -
 SPUD DATE 4/6/82 DATE COMPLETED 4/27/82
 ELEV: GR 2962' DF - KB 2969.0'



WELL PLAT

KCC _____
 KGS _____
 MISC _____
 (Office Use)

DRILLED WITH (CABLE) (ROTARY) (AIR) TOOLS (New) / (Used) casing.
CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs./ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface casing	12 1/4"	8 5/8"	24#	593'	Class H	150	12% gel + 3% CaCl ₂
					Class H	150	3% CaCl ₂
Production casing	7 7/8"	5 1/2"	14#	3120'	Class H	500	65-35 poz w/1/2 D-29 +
					Class H	150	6% gel .18% salt + 75% D-65 + 2% D-45

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2 H/Ft		2883/2887, 2889/2891,
TUBING RECORD					2900/2908, 2917/2928,
Size	Setting depth	Packer set at			2937/2942
2 3/8"	2944.4'				

Name of lowest fresh water producing stratum _____ Depth _____

Estimated height of cement behind Surface Pipe _____

DV USED? 1° @ 593', 3/4° @ 1146'

7-32-34w

WELL LOG

Formation Description, Contents, etc.	Top	Bottom	Name	Depth
Sand - clay	0	485	Stone Corral	1650
Red Bed	485	870	Chase	2550
Shale - Shells	875	1165	Winfield	2655
Gloretta Sand	1165	1365	Council Grove	2882
Shale	1360	1660		
Anhydrite & Shale	1660	1940		
Shale	1940	2410		
Shale & Lime	2410	2610		
Lime & Shale	2610	2820		
Shale	2820	2955		
Shale & Lime	2955	3120		
R.T.D.	3120	3120		

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Acidized down 5½" casing w/4494 gal. and	2883/2942
additives w/90 ball sealers	

Date of first production	Producing method (flowing, pumping, gas lift, etc.)	Gravity
Awaiting pipeline connection		Awaiting pipeline connection
RATE OF PRODUCTION PER 24 HOURS	Oil bbls.	Gas MCF
		Water %
		Gas-oil ratio bbls.
		CFPS
Disposition of gas (vented, used on lease or sold)	Perforations	2883/2942
Awaiting pipeline connection		

****The person who can be reached by phone regarding any questions concerning this information. A witnessed initial test by the Commission is required if the well produces more than 25 BOPD or is located in a Basic Order Pool.**

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KANSAS DRILLER'S LOG

State Geological Survey
WICHITA BRANCH

LEASE:	PLOWMAN #1-A	LOCATION:	1315'FNL & 1250'FWL, (NW/4)
API	15-175-20,607		SECTION 7-32S-34W
OWNER:	MOBIL OIL CORPORATION		SEWARD COUNTY, KANSAS
SPUD:	4-07-82	CASING:	8 5/8" SET @ 593'
COMP:	4-11-82		5 1/2" SET @ 3120'

Sand - Clay	485
Red Bed	870
Shale - Shells	1165
Gloretta Sand	1360
Shale	1660
Anhydrite & Shale	1940
Shale	2410
Shale & Lime	2610
Lime & Shale	2820
Shale	2955
Shale & Lime	3120
R.T.D.	3120

STATE OF KANSAS)
)
COUNTY OF SEDGWICK) ss.

I, William C. Wakefield, do hereby certify that this is a true and correct Driller's Log on the PLOWMAN #1-A, located 1315' FNL & 1250' FWL, (NW/4) of Section 7-32S-34W, SEWARD COUNTY, KANSAS, as shown by the daily drilling reports.

EARL F. WAKEFIELD, INC.

By William C. Wakefield
William C. Wakefield

FEE

AFFIDAVIT OF COMPLETION FORM

SIDE ONE

State Geological Survey

WICHITA BRANCH

Two (2) copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within thirty (30) days after the completion of a well, regardless of how the well was completed.

Attach separate letter of request if the information is to be held confidential. If confidential, only file one copy. Information on Side One will be of public record and Side Two will then be held confidential.

Applications must be made on dual completion, commingling, salt water disposal, injection and temporarily abandoned wells.

Attach one copy only wireline logs (i.e. electrical log, sonic log, gamma ray neutron log, etc.). (Rules 82-2-105 & 82-2-125) KCC# (316) 263-3238.

LICENSE # 6878

EXPIRATION DATE

6/30/83

OPERATOR Mobil Oil Corporation for Northern Natural API NO. 15-175-20607

ADDRESS P. O. Box 5444 Gas Producing Co. COUNTY Seward

Denver, CO 80217-5444

FIELD Panoma

** CONTACT PERSON C. J. Park, Prod. Acctg. Supv.

PHONE 303/572-2696

PROD. FORMATION Panoma Council Grove

PURCHASER Northern Natural Gas

LEASE Plowman #1-A Unit

ADDRESS 2323 Dodge Street

WELL NO. #2

Omaha, Nebraska 68102

WELL LOCATION NW/4 Sec. 7-32S-34W

DRILLING Wakefield Drilling

1315 Ft. from North Line and

CONTRACTOR

1250 Ft. from West Line of

ADDRESS 300 West Douglas, Suite 500

the NW/4 (Qtr.) SEC 7 TWP 32S RGE 34W.

Wichita, KS 67202

PLUGGING

CONTRACTOR

ADDRESS

WELL FLAT

(Office Use Only)

KCC

KGS

SWD/REP

PLG.

WELL DEPTH 3120' PBTD 3105'

SPUD DATE 4/6/82 DATE COMPLETED 4/27/82

LEVEL: GR 2916.2 DF KB 2924

DRILLED WITH (CABLE) (ROTARY) (AIR) TOOLS.

MILET NO. OF DISPOSAL OR REPRESSURING WELL BEING

USED TO DISPOSE OF WATER FROM THIS LEASE CD-8787

Amount of surface pipe set and cemented (C-19,411) DV Tool Used?

HIS AFFIDAVIT APPLIES TO: (Circle ONE) - Oil, Gas, Shut-in Gas, Dry, Disposal, Injection, Temporarily Abandoned, OWWO. Other.

ALL REQUIREMENTS OF THE STATUTES, RULES AND REGULATIONS PROMULGATED TO REGULATE THE OIL AND GAS INDUSTRY HAVE BEEN FULLY COMPLIED WITH.

AFFIDAVIT

C. J. Park, being of lawful age, hereby certifies that:

I am the Affiant, and I am familiar with the contents of the foregoing Affidavit. The statements and allegations contained therein are true and correct.

C. J. Park

SIDE TWO Northern Nat. Gas ACO-1 WELL HISTORY
 OPERATOR Mobil Oil Corporation for LEASE Plowman #1-A Ut. #2 SEC. 7 TWP. 32S RGE. 34W

ACO-1 WELL HISTORY

OPERATOR Mobil Oil Corporation for LEASE Plowman #1-A Ut. SEC. 7 TWP. 32S RGE. 34W

FILL IN WELL LOG AS REQUIRED:

Show all important scenes of personality and contents thereof; record intervals, and all drill-stem tests, including depth interval tested, cushion used, time lost over, flooding and shut-in practices, and records.

SHOW GEOLOGICAL MARKERS, LOGS RUN,
OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Sand - clay	0	485	Stone Corral	1650
Red Bed	485	870	Chase	2550
Shale - Shells	875	1165	Winfield	2655
Gloretta Sand	1165	1360	Council Grove	2882
Shale	1360	1660		
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Shale & Lime	2955	3120		
R.T.D.	3120	3120		

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used		Depth interval treated	
HCl acid			
Acidized down 5½" casing w/4494 gal. and additives w/90		2883/2942	
ball sealers			
Date of first production		Producing method (Flowing, pumping, gas lift, etc.)	
Awaiting pipeline connection		Gravity Awaiting pipeline connection	
DATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water %
	bbl.	bbl.	bbl.
Disposition of gas (vented, used on lease or sold)		Perforations 2883/2942	
Awaiting pipeline connection			

Report of all strings set — surface, intermediate, production, etc. CASING RECORD (New) or (Used)							
Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs./ft.	Setting depth	Type cement	Bars	Type and percent additives
surface casing	12 1/4"	8 5/8"	24#	593'	Class H	150	12% gel + 3% CaCl ₂
					Class H	150	3% CaCl ₂
production casing	7 7/8"	5 1/2"	14#	3120'	Class H	500	65-35 po ² . w/¼ D-29 +
					Class H	150	6% gel .18% salt + .75% D-65 + 2% D-45

LINEAR RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Soils comment	Shots per ft.	Size & type	Depth interval
			2 H/Ft.		2883/2887, 2889/2891,
TUBING RECORD					2900/2908, 2917/2928,
Size 2 3/8"	Setting depth 2944.4'	Factor set at			2937/2942