FORM MUST BE TYPED

SIDE ONE

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

COPY

Computer Inventoried

API NO. 15- 077-213320000

County Harper

260'S C SW NW Sec. 1 Twp. 31S Rge. 7 E X W

2240 Feet from S(N) (circle one) Line of Section

660 Feet from E(W) (circle one) Line of Section

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

Lease Name Graber Well # 2

Field Name Maple Grove South

Producing Formation Mississippian

Elevation: Ground 1589 KB 1598

Total Depth 4405 PBTD 4369

Amount of Surface Pipe Set and Cemented at 222 Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from 225

feet depth to surface w/ 165 sx cmt.

Drilling Fluid Management Plan ALT 2 JH 4-15-98
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 440 bbls

Dewatering method used settlement

Location of fluid disposal if hauled offsite:

Operator Name Messenger Petroleum, Inc.

Lease Name Bergman License No. 4706

NE Quarter Sec. 34 Twp. 30 S Rng. 7 E(W)

County Kingman Docket No. D-25073

Operator: License # 4706

Name: MESSENGER PETROLEUM, INC.

Address 1015 E. Hwy 54

City/State/Zip Kingman, KS 67068

Purchaser: Gas-Peoples Nat. Gas Oil-Texaco

Operator Contact Person: Jon F. Messenger

Phone (316) 532-5400

Contractor: Name: Sterling Dlrg Co. (rig 4)

License: 5142

Wellsite Geologist: Jon F. Messenger

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

X Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: ____

Well Name: ____

Comp. Date ____ Old Total Depth ____

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

08-27-97 Spud Date
09-03-97 Date Reached TD
09-13-97 Completion Date

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 Jon F Messenger

Title President Date 12-24-97

Subscribed and sworn to before me this 24 day of December, 19 97.

Notary Public Susan C. Rogers

Date Commission Expires 9/19/98

SUSAN C ROGERS
Notary Public State of Kansas
My Appt. Expires 9/19/98

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) IS

RECEIVED
KANSAS CORP. COMM.
DEC 29 1997
CONSERVATION DIVISION

Form ACO-1 (7-91)

SIDE TWO

Operator Name MESSENGER PETROLEUM, INC. Lease Name Graber Well # 2

Sec. 1 Twp. 31S Rge. 7 ☐ East ☒ West County Harper

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 (Attach Additional Sheets.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run: Dual Induction Log, CDL/CNL ; Dual Compensated Porosity Log, DIL by Log Tech

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Indian Cave	2328	- 730
Heebner	3269	-1671
Stalnaker	3534	-1936
BKC	4042	-2444
Miss (por)	4334	-2736

DST 1: Miss 4324-4342 30-30-60-60 GTS 12" Ga 60 MCF incr to 100 MCF, REC 200' SGCWM IFP 112-92 FFP 100-94 ISIP 1226 FSIP 1218 HP 2199/2

DST 2: Miss 4340-4352 30-30-60-60 GTS 7" Ga 63 MCF incr to 85 MCF, REC 260' OGCWM 60' GCW IFP 55-85 FFP 89-111 ISIP 1201 FSIP 1203 HP 2143/2087

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	12-1/4	8-5/8	23	222	60/40 poz	165	2%gel,3%CC
production	7-7/8	5-1/2	14	4403	ASC	175	5 # Kol seal

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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	4334 - 4340	1000 gal 10% MA	4334-40

TUBING RECORD Size J-55 EUE 8rnd 2-7/8 Set At 4365 Packer At Liner Run ☐ Yes ☒ No

Date of First Resumed Production, SWD or Inj. 10-11-97 Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	30.89	303	135.27	9809:1	35.1

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

METHOD OF COMPLETION ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify)

Production Interval 4334-4340 / 2SPF Miss Chert