FORM MUST BE TYPED

SIDE ONE

ORIGINAL

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

Operator: License # 6037

Name: Staab Oil Company

Address 1607 Hopewell RD

City/State/Zip Hays, KS. 67601

Purchaser: na

Operator Contact Person: Francis C. Staab

Phone (913) 265-5013

Contractor: Name: L. D. DRILLING, INC.

License: 6039

Wellsite Geologist: Todd Morgenstern

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

___ Oil ___ SWD ___ SIOW ___ Temp. Abd.
___ Gas ___ ENHR ___ SIGW
X 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.

5-08-96 Spud Date | 5-16-96 Date Reached TD | Completion Date

API NO. 15- 179-210840000 ~~00 00~~ KCC EMP

County Sheridan

C - W/2 E/2 NE Sec. 20 Twp. 9 Rge. 27 E X W

1320 Feet from S (N) (circle one) Line of Section

990 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 HAFFNER Well # 1

Field Name W/C

Producing Formation na

Elevation: Ground 2742 KB 2747

Total Depth 4154 PBTD

Amount of Surface Pipe Set and Cemented at 287 Feet

Multiple Stage Cementing Collar Used? ___ Yes X No

If yes, show depth set ___ Feet

If Alternate II completion, cement circulated from ___

feet depth to ___ w/ ___ sx cmt.

Drilling Fluid Management Plan D&A 1230 97 U.C.
(Data must be collected from the Reserve Pit)

Chloride content ___ ppm Fluid volume ___ bbls

Dewatering method used ___

Location of fluid disposal if hauled offsite:

Operator Name ___

Lease Name ___ License No. ___

___ Quarter Sec. ___ Twp. ___ S-Rng. ___ E/W

County ___ Docket No. ___

KANSAS CORPORATION COMMISSION
JUN 6 1996
RECEIVED
06-07-1996

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 Staab Oil Co Francis C. Staab

Title Partner Date 6-5-96

Subscribed and sworn to before me this 5th day of June, 19 96.

Notary Public Myralea J. Staab

Date Commission Expires Sept. 21, 1996

K.C.C. OFFICE USE ONLY
F ___ Letter of Confidentiality Attached
C ___ Wireline Log Received
C X Geologist Report Received

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

Form ACO-1 (7-91)

Myralea J. Staab
NOTARY PUBLIC
State of Kansas
MY APPT. EXPIRES 9-21-96

Myralea J. Staab
NOTARY PUBLIC
State of Kansas
MY APPT. EXPIRES

SIDE TWO

Operator Name Staab Oil Company Lease Name Haffner Well # 1

☐ East County Sheridan

Sec. 20 Twp. 9 Rge. 27 ☒ 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 (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: RAG Log

DST 1 3904-3960 B & F Zone
45 45 45 45/ IHP 1935 IFP 56-67
ISIP 1156 FFP 89-103 FSIP 1143 FHP 1935

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

Name	Top	Datum
Anh 2345 +402	Topeka 3636	-889 Toronto 3873 -1126
Base 2378 +369	Heebner 3849	-1102 Lansing 3885 -1138
Muncie Creek 4001	-1254 Stark Shale 4071	-1324
Base KC 4115	-1368 RTD 4154	-1407

Recoved 30' SOSP Mud 139' Watery Mud

DST 2 4000-4020 H Zone 30-30-30-30 IHP 1979
IFP 34-22 ISIP 112 FFP 43-22 FSIP 69 FHP 1979
1' clean oil 5' SGOC Mud 9' SGOC Mud 82%

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"	20#	287'	40/60 Poz	180	2% Gel, 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top 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

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj. D & A Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

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

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☐ Sold ☐ Used on Lease (If vented, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION: Mid Continent

HALLIBURTON LOCATION: Hwy. K

15-179-20840-00-00

BILLED ON TICKET NO. 915511

CUSTOMER: Stock Oil Co.

LEASE: Hoffman

WELL NO. #1

JOB TYPE: PTA

DATE: 5-16-96

WELL DATA

FIELD _____ SEC. 20 TWP. 9S RNG. 29W COUNTY Sheridan STATE Ks.

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 4154

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING						
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 5-15-96	DATE 5-16-96	DATE 5-16-96	DATE 5-16-96
TIME 2300	TIME 0245	TIME 0410	TIME

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG LA-11 8 5/8"	1	Halco
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API

DISPL. FLUID _____ DENSITY _____ LB/GAL. °API

PROP. TYPE _____ SIZE _____ LB. _____

PROP. TYPE _____ SIZE _____ LB. _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____ GAL. _____ IN _____

NE AGENT TYPE _____ GAL. _____ IN _____

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____

GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____

BREAKER TYPE _____ GAL.-LB. _____ IN _____

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cmt

DESCRIPTION OF JOB Plug To Abandon

JOB DONE THRU: TUBING ☐ CASING ☐ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X Bob Loucks

HALLIBURTON OPERATOR Roger D. Fisher

COPIES REQUESTED _____

RECEIVED
KANSAS CORP COMM
JUN 17 1996
CONSERVATION DIVISION

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	190	40/60 Poz		B	6% Gel, 1/4# Flocele	1.17	126

SUMMARY

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____

HYDRAULIC HORSEPOWER

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE

FEET _____ REASON _____

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____

LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____

CEMENT SLURRY: BBL.-GAL. 56.5

TOTAL VOLUME: BBL.-GAL. _____

REMARKS

See Chart for Log

Thank You

Roger

CUSTOMER

FORM 2025-R4

15-179-20840-00-00

HALLIBURTON

JOB LOG HAL-2013-C

DATE 5-16-96 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Stab Oil Co.	#1	Haffner	Plug To Abandon	715511

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE(PSI) TUBING	PRESSURE(PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2300							Called out
	0745							on loc. Set up truck
								Rig laying down collars ORIGINAL
								Rem Plug stand Back
								Drill pipe @ 2360'
	0410		5					Pump 5 bbl H2O spacer
			71.4					25 sks cmt. 40/60 Poz 6% Gel, 1/4 # Flocele
			2					7 bbl H2O spacer
								30 bbl mud to Balance
	0475							Plug down Pull to 1495'
	0505							Pump 5 bbl H2O spacer
			19					100 sks cmt
			2					7 bbl H2O spacer
			12					12 bbl mud to Balance
	0520		-					Plug down Pull D.P. to 340'
	0610		3					Pump 3 bbl H2O spacer
			11.8					40 sks cmt
								1.5 bbl H2O spacer
	0625							Plug down pull D.P. out of hole
								Pull & lay down Rat hole
								Pick Tip plug down 40' solid Bridge
	0730		3					mix & pump 10 sks 40' to surface
			4.4					15 sks to Rat hole
	0730							Wash & Rack up truck
								Job Complete

Thank You
Ray

CUSTOMER

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION: MID CONTINENT
HALLIBURTON LOCATION: HAYS, KS
BILLED ON TICKET NO.: 915493

WELL DATA 15-179-20840-00-00

FIELD _____ SEC. 20 TWP. 9S RNG. 27W COUNTY SHERIDAN STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	20	8 5/8	KB	283	
LINER						
TUBING						
OPEN HOLE			12¼	283	289	SHOTS/FT.
PERFORATIONS						
PERFORATIONS		ORIGINAL				
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG WOOD	1	HALCO
HEAD PC	1	"
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 5-9-96	DATE 5-9	DATE 5-10	DATE 5-10
TIME 2100	TIME 2330	TIME 0100	TIME 0300

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
	PU	
W. WILSON 189277	39604	HAYS, KS
	PICK	
D. ASH 416094	32293	"
	BULK	
J. ORTEGA	4508	"

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL.-°API
DISPL. FLUID _____ DENSITY _____ LB/GAL.-°API
PROP. TYPE _____ SIZE _____ LB. _____
PROP. TYPE _____ SIZE _____ LB. _____
ACID TYPE _____ GAL. _____ % _____
ACID TYPE _____ GAL. _____ % _____
ACID TYPE _____ GAL. _____ % _____
SURFACTANT TYPE _____ GAL. _____ IN _____
NE AGENT TYPE _____ GAL. _____ IN _____
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____
GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____
BREAKER TYPE _____ GAL.-LB. _____ IN _____
BLOCKING AGENT TYPE _____ GAL.-LB. _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT CEMENT
DESCRIPTION OF JOB 8 5/8" SURFACE
TOTAL DEPTH - 286'
JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐
CUSTOMER REPRESENTATIVE X _____
HALLIBURTON OPERATOR Wayne Wilson COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	120	PS 40/60	DOZ	B	2% CC-GEL, 3% CC	1.3	14.0

SUMMARY

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____

HYDRAULIC HORSEPOWER

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE

FEET 15' REASON REQUESTED

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL. BBL. ~~GAL~~ 17.1
CEMENT SLURRY BBL. ~~GAL~~ 41.7
TOTAL VOLUME: BBL.-GAL. _____

REMARKS

SEE JOB LOG
THANK YOU

CUSTOMER

FORM 2025-R4

CUSTOMER: STAR OIL CO.
LEASE: HOFFMAN
WELL NO.: 1
JOB TYPE: 8 5/8" SURFACE
DATE: 5-10-96

15-179-20840-00-00

HALLIBURTON

JOB LOG HAL-2013-C

DATE 5-10-96 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
STAND OIL CO	1	HAFFNER	8 5/8" SURFACE	915443

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE(PSI) TUBING	PRESSURE(PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2100	5-9						CALLED OUT
	2330	5-9						ON LOCATION - DISCUSS JOB PROCEDURE
	0110							BREAK CIRCULATION
	0118	6	41.7		✓		250	MIX CEMENT ORIGINAL
								RELEASE PLUG
	0126	6	0		✓		300	DISPLACE PLUG
	0130		17.7					PLUG DOWN
								CIRCULATED 15 SKS CEMENT TO PIT ✓
								SHUT IN MANIFOLD
								WASH - UP
								RACK - UP
	0300							JOB COMPLETE
								THANK YOU WAYNE, DALE, JOHN
								PUMP TIME - 1/2 HOUR

CUSTOMER

15-179-20840-00-00

ORIGINAL

Geological Report

for

Staab Oil Company

No. 1 Haffner
API #15-179-21084
C-E/2-W/2-NE
Section 20-09S-27W
Sheridan County, Kansas

By: Todd E. Morgenstern, Geologist
P.O.Box 251
Ellinwood, Kansas 67526

15-179-21084-00-00

ORIGINAL

OPERATOR:	Staab Oil Company
WELL:	No. 1 Haffner API # 15-179-21084
LOCATION:	C-W/2-E/2-NE Section 20-09S-27W Sheridan County, Kansas
FIELD:	Wildcat
CONTRACTOR:	L.D. Drilling Company, Rig 1
DRILLING COMMENCED:	05-09-96
DRILLING COMPLETED:	05-16-96
DRILLING TIME:	One (1) foot drilling time was recorded from 3500' to 4154' RTD.
SAMPLES:	Samples were saved and examined from 3600' to 4154' RTD.
ELEVATIONS:	2742' Ground Level 2747' Kelly Bushing
MEASUREMENTS:	All depths are measured from 2747' K.B.
CASING RECORD:	8 5/8" set @ 287' with 180 sacks.
FORMATION TESTING:	Two (2) tests were run by Diamond Testing Co.
MUD:	Mud Co. (Chemical)
OPEN HOLE LOGS:	ELI Wireline Inc. (Radiation Guard).
PRODUCTION:	Dry & Abandoned

15-179-20840-00-00

FORMATION TOPS:

FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE	2344'	2345'	+ 402'
BASE ANHYDRITE	2378'	2378'	+ 369'
TOPEKA	3633'	3636'	-889'
HEEBNER	3850'	3049'	-1102'
TORONTO	3871'	3873'	-1126'
LANSING	3882'	3885'	-1138'
MUNCIE CREEK	4002'	4001'	-1254'
STARK SHALE	4073'	4071'	-1324'
BASE KANSAS CITY	4117'	4115'	-1368'
LOG TOTAL DEPTH	******	4148'	-1401'
ROTARY TOTAL DEPTH	4154'	******	-1407'

SAMPLE DESCRIPTIONS AND TEST DATA:
(All depths are corrected to log measurements.)

TOPEKA:
3808-3815 Limestone, white and cream, finely crystalline, fossiliferous, oolitic in part, good interfossiliferous porosity, no shows of oil were noted.

TORONTO:
3873-3879 Limestone, white to light buff, finely crystalline, slightly fossiliferous, with poor interfossiliferous porosity, chalky in part, slightly cherty, with scattered spotted staining, no show of free oil.

15-179-21840-00-00

LANSING:

"A" Zone
3881-3892 Limestone, white to light gray and tan, very finely crystalline, oolitic and fossiliferous, slightly oolicastic, with fair visible interfossiliferous porosity, very slight show of free oil on break, faint odor. (This zone tested water on the offset well to the north at a higher datum.)

"B" Zone
3916-3921 Limestone, light gray, finely crystalline, oolitic, with trace of interoolitic porosity, very dark staining, very slight show of oil on break, appears tarry, no odor. (Covered by D.S.T. No. 1)

"D" Zone
3927-3934 Limestone, light gray and white, finely crystalline, slightly fossiliferous, oolitic in part, with poor visible intercrystalline and interoolitic porosity, trace of dark staining, tarry, no odor. (Covered by D.S.T. No.1)

"F" Zone
3954-3960 Limestone, white and cream, finely crystalline, fossiliferous in part, with fair pinhole and intercrystalline porosity, fair odor, slight show of free oil, fair spotted staining. (Covered by D.S.T. No.1)

FORMATION TEST NO. 1
3904-3960 (Lansing "B" thru "F" Zones)

			I.H.P.	1935#
Blow:	Weak increasing to 6"	45 min.	I.F.P.	56#-67#
		45 min.	I.S.I.P.	1156#
Blow:	Weak increasing to 4 3/4"	45 min.	F.F.P.	89#-103#
		45 min.	F.S.I.P.	1143#
			F.H.P.	1935#

RECOVERY: 30' Slightly Oil Spotted Drilling Mud (1% Oil, 99% Mud)
139' Watery Mud (50% Water, 50% Mud)
169' Total Recovery

TEMPERATURE: 120*

"G" Zone
3978-3984 Limestone, cream, tan and gray, finely crystalline, oolitic and oolicastic, slightly fossiliferous, chalky in part, no shows of oil were noted.

"H" Zone
4013-4018 Limestone, cream to light gray, finely crystalline, oolitic and slightly fossiliferous, with fair to good visible interoolitic porosity, light brown staining, slight show of free oil, fair odor. (Covered by D.S.T. No. 2)

15-179-20840-00-00

FORMATION TEST NO. 2
4000-4020 (Lansing "H")

			I.H.P.	1979#
Blow:	Weak Blow	30 min.	I.F.P.	34#-22#
		30 min.	I.S.I.P.	112#
Blow:	Weak Blow, Died in 17 min.	30 min.	F.F.P.	43#-22#
		30 min.	F.S.I.P.	69#
			F.H.P.	1979#

RECOVERY: 1' Clean Oil
5' Slightly Gassy Oil Cut Mud (2% Gas, 32% Oil, 66% Mud)
9' Slightly Gassy Oil Cut Mud (2% Gas, 16% Oil, 82% Mud)
15' Total Recovery

TEMPERATURE: 121*

"I" Zone
4043-4050 Limestone, cream and tan, finely crystalline, slightly fossiliferous, with poor visible porosity, trace of scattered staining, no odor or show of free oil.

"J" Zone
4062-4070 Limestone, cream and white, finely crystalline, dense, oolitic, poor visible porosity, with trace of spotted staining, very chalky, no show of free oil.

"K" Zone
4082-4088 Limestone, white and gray, finely crystalline, dense, oolitic, with trace of interoolitic porosity, chalky, trace of scattered spotted staining, no odor, no show of free oil.

"L" Zone
4105-4112 Limestone, cream and white, dense, oolitic, with poor visible porosity, no shows of oil were noted.

PLEASATON SAND:
4126-4123 Sandstone, gray, very fine grained, subrounded, friable, with fair to good visible intergranular porosity, spotted gilsonite staining, dead oil staining, no odor or show of free oil.

ROTARY TOTAL DEPTH:
4154

15-179-20840-00-00

Structural Comparison

	Staab Oil # 1 Haffner C-E/2-W/2-NE Sec. 20-09S-27W	Abercrombie # 1 Haffner C-NE-NE Sec. 20-09S-27W	N.P.R. # 1 Whitmer C-NW-NW Sec. 21-09S-27W	Bankoff Oil # 1 Popp SW-SW-SW Sec. 16-09S-27W
ANHYDRITE	+ 402	+ 400	+ 397	+ 396
BASE ANH.	+ 369	+ 366	+ 364	+ 363
TOPEKA	- 889	- 887	- 892	- 893
HEEBNER	-1102	-1099	-1103	-1105
TORONTO	-1126	-1121	-1125	-1127
LANSING	-1138	-1132	-1135	-1141
MUNCIE CREEK	-1254	-1253	-1259	-1261
STARK SH.	-1324	-1321	-1327	-1330
BASE K.C.	-1368	-1366	-1371	-1373
ROTARY T.D.	-1407	-1413	-1432	-1421

SUMMARY:

Due to the somewhat lower structural position of the Lansing-Kansas City, negative results of two drill stem tests, and the open hole log evaluation, it was decided to plug and abandon the No. 1 Haffner.

Respectfully submitted,

Todd E. Morgenstern
Geologist