. . . My Appt. Expires 2/7/2000

perator Name	K,.Inc.		SIDE TUO	Sternic	N/IOI/	Well#	5	
· —		East	County	Barber		_ #61(# .		
7 Twp. 359	Rge. 12	⊠ West		·			•	
nterval tested, tim	me tool open a s, bottom hole 1	and base of formation nd closed, flowing a temperature, fluid re- opy of log.	nd shut-in pres	sures, wheth	her shut-in pres	sure read	hed static level,	
ill Stem Tests Take (Attach Additiona		🛛 Yes 🗌 No	€ Log	Formatio	n (Top), Depth a	nd Datums	•	
imples Sent to Geold	ogical Survey	🗆 Yes 🖾 No	Name Vocas solen	CHol-	Top		Datum (2016)	
res Taken		: 🗆 :yes 🛛 No	Kanwaka Elgin S	andstone	3739 3745		(-2216) (-2222)	
ectric Log Run		X Yes D No	Heebner		3953		(-2430)	
(Submit Copy.)		_ 165 _ NO	1	Limestor			(-2439)	
st All E.Logs Run:	CEMENT	BoND	Douglas	Snaie -Kansas (4017 City 4137		(-2494) (-2614)	
	LONG - SPAC	ED SONIC	Stark S		4612		(-3089)	
	DUAL IND		Cheroke		4798		(-3275)	
	DUAL SPACES MICRO	NEUTRON	Mississ		4809		(-3286) (-3397)	
	Report al	CASING RECORD	New Du	epth sed ntermediate,	£\$.:	
urpose 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"	24	389913	60/40 poz	260	2% qel 3% Ca	
Production	7 7/8"	4 1/2"	10.5	4919	Thixatropic	150	2% Gel 8# qi	
	ADDITIONAL C	EMENTING/SQUEEZE RECO	ORD	<u> </u>				
urpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives				
Protect Casing Plug Back TD Plug Off Zone		· · · · · · · ·						
Shots Per Foot		4 RECORD - Bridge Plu ge of Each Interval P			Fracture, Shot, nd Kind of Mater		weeze Record Depth	
2	4811–4815			'(·)			' बता	
2	4817-4819	·		1500	gals 15°	10		
2	4822_4828			100 X 1	100 MJ+-	ge/f/	260	
2 4838-486	4838–4868							
UBING RECORD	Size 2 3/8":	Set At (4790	Packer At none	Liner Run	☐ _{Yes} 🕱			
ate of First, Resur 2/8/90	med Production,	, SWD òr Inj. Produ	· I		umping Gas L	ift O	ther (Explain)	
stimated Production Per 24 Hours	n oil	Bbis. Gas /2, Oc	Mcf Wate		. Gas-Oil	Ratio	Gravity	
sposition of Gas:		F COMPLETION		_	roduction Interv		4811'- 4815',	
Vented Sold (If vented, su	── Used on 1 bmit ACO-18.)	_ `	Hole Perf.	⊔ Dually	y Comp. Comm	ingled	4822- 4828	
		— utner	(specify)			•	4838 - 4868	

DOUGLAS H. MCGINNESS II

AAPG#3962 KGS SIPES

Drlg. & Comp. Supervision

CERTIFIED PETROLEUM GEOLOGIST



ORIGINAL

DAILY DRILLING REPORT

15-007-22285

#5 Sternberger C SE SW of 7-35S-13W Barber County, Kansas

Douglas H. McGinness II, Drilling Supervisor

- 12-28-89 Central Kansas Survey staked location & ran elevation.
- 01-03-90 Inslee built location and dug pits.
- 01-06-90 Duke Drilling moved in rotary tools (rig #2) and rigged up. Spud 12-1/4" hole at 2:40 pm. Drilled hole to 390', dropped survey, pulled bit, 1/2° vertical deviation at 350'. Tripped in with 7-7/8" retooth bit. Drilled hole to 965' with no loss Dropped survey, 1-3/4° vertical circulation. deviation at 925'. Ran 9 jts of new API 8-5/8" x 24 ppf (tallied 379.13') surface casing with cement basket on bottom of second jt. Set at 389.13'. Rigged up Howco pump truck and started mixing 260 sx of pox mix cement with 40% Pozzolan & 60% Class A Common, containing 2% gel & 3% CaCl=. Slurry volume totaled 58.3 bbls, slurry density was 14.5 ppg. Cement mixed, released plug and started displacement. Displaced plug with 22 bbls of fresh water, plug down with 600#/square inch at 3:30 am. Cement circulated to surface.
- 01-07-90 7:00 am Depth Waiting on cement. Vertical deviation of 1° at 1500'
- 7:00 am Depth 1821', drilling. Vertical deviation of $3/4^{\circ}$ at 2461'.
- 01-09-90 7:00 am Depth 2727', drilling. Vis. 37 sec/qt, wt. 9.0 ppg, filtrate N/C.
- 7:00 am Depth 3517', drilling. Vis. 37 sec/qt, wt. 9.0 ppg, filtrate 12.8 cm²/30 min., PV/YP 8/6, gel strengths 4/12, chloride 4,000 ppm, daily cost \$2,238.50, cumulative mud cost \$3,116.60.

Daily Drilling Report (Cont.) #5 Sternberger Barber County, Kansas Page 2

- 7:00 am Depth 4287', drilling. Vis. 39 sec/qt, wt. 9.0 ppg, filtrate 12.0 cm³/30 min., PV/YP 9/7, gel strengths 7/16, chloride 4,200 ppm, daily cost \$542.40, cumulative cost \$3,659.20.
- 7:00 am Depth 4520', tripping in hole with bit after DST #1. Western DST #1, 4148' to 4164' (356' tail pipe), see geological completion report for details. Pipe strap at 4520, 1.51' short to board, no correction; vis. 55 sec/qt, wt. 9.4 ppg, filtrate 10.4 cm³/30 min., PV/YP 17/21, gel strengths 16/40, chloride 6,000 ppm, daily cost \$512.80, cumulative cost \$4,172.00
- 7:00 am Depth 4806', tripping in hole with core bit. 3/4 degree vertical deviation at 4806'; vis. 47 sec/qt, wt. 9.3 ppg, filtrate 6.8 cm²/30 min., PV/YP 12/13, gel strengths 11/27, chloride 5,600 ppm, daily cost \$478.00, cumulative cost \$4,650.00; Core Mississippian 4806' to 4821.75', core barrel jammed, pull bit, recover 15' of core.
- 7:00 am Depth 4835', tripping out of hole with core bit. Vis. 45 sec/qt, wt. 9.4 ppg, filtrate 8.8 cm³/30 min., PV/YP 14/14, gel strengths 10/26, chloride 5,600 ppm, LCM 1#/bbl, daily cost \$0.00, cumulative cost \$4,878.00; Core Mississippian 4821.75' to 4835', core barrel jammed, pull bit, recover 14+' of core.
- 01 15 907:00 am Depth - 4888', drilling. Western DST #2, 4814' to 4865', plugged tool, misrun; vis. 48 sec/qt, wt. 9.4 ppg, filtrate 10.4 cm³/30min., PV/YP 14/16, gel strengths 8/26, chloride 6,000 ppm, LCM 4#/bbl, daily cost \$606.40, cumulative cost \$5,484.40 RTD 4920'; condition hole 1 hour, trip out of hole for logs, rig up HLS, LTD 4914, 6' of fill up, run DIGL, SDL/DSN II, ML, FWS, LSS, CORAL; trip in hole after logs, condition hole 1 hour, LDDP, run in 12.68' shoe jt & 116 jts of new API 4-1/2" x 10.5 ppf casing (tally 4626.55') HOWCO centralizers on top of 2nd, 4th, 6th & 9th collars, land casing on bottom, hook up to rig pump, circulate for 25 min. with good returns, land casing at 4919', hook up to HOWCO, pump 5 bbls fresh water spacer, pump 500 gals of Super-flush polymer removal sweep, pump 5 bbls fresh water spacer start mixing cement; mix 150 sx of Thixotropic Cement, containing 8# gilsonite/sx, 5# Cal-Seal/sx, 1/2# Flocele/sx & 2% gel, slurry density 14.12 ppg, slurry volume 42.4 bbls, finish mixing cement, wash out pump & lines; release plug & start displacement.

Daily Drilling Report (Cont.) #5 Sternberger Barber County, Kansas Page 3

7:00 am Depth - 4920', cementing production casing. Pump plug down with 78 barrels of fresh water, plug down at 7:12 AM with 1000 psi, release pressure, float held; release Duke Drilling Rig #2.



CMX, Inc.

MAIN OFFICE: 1026 UNION CENTER BLDG. WICHITA, KS 67202 (316) 269-9052 DOUGLAS H. McGINNESS II

ORIGINAL

ROCKY MOUNTAIN OFFICE: 2966 E. NICHOLS CIRCLE LITTLETON, CO 80122 (303) 290-0630 CURTIS F. CLARK

15-007-22285

DAILY COMPLETION REPORT

#5 Sternberger
100' East C SE SW of 7-35S-13W
Barber County, Kansas
Curtis F. Clark, Completion Foreman
Douglas H. McGinness II, Completion Foreman

1/26/90: Rig up HLS, run Acoustic Cement Bond Log; PBTD at 4896', Top of Cement @ 4068' very low pipe amplitude readings across the Mississippian, excellent cement bonding below, across and above the zone.

1/29/90: Review core results with Halliburton technical personnel in Wichita and Ft. Worth. A sample examined from the Upper Mississippian chert zone at 4827' had a permeability range of 111 to 133 millidarcies. Mississippi chert in this area rarely exceeds 50 millidarcies.

1/30/90: Reviewed Full Wave Sonic Log, Frac Pressure Rock Properties Log and Frac Pressure Fracture Height Log with HLS and Halliburton Senior Engineers. indicated that the lower siliceous dolomite zone is highly fractured. The acid and frac treatments were designed utilizing much of the quantitative information derived from the above well logs. 1/31/90: Move in Clarke Corp rig; rig up casing swab tools, swab hole down to 2900'; rig up HLS, run in 20' casing gun, perforate Mississippian from 4811' to 4815', 4817' to 4819' and 4822' to 4828', all 2 shots/foot; running in casing with second gun, hit fluid at 700' DFS, blew perforating gun out of hole, well momentarily out of control, get perforating gun out, close mastergate; ISIP 755 psi; open 2" flow line, flow well to pit at an estimated volume of 850 MCFG/day natural, close mastergate and flow line, SDFN.

Completion Report #5 Sternberger Page 2

SICP--1300 psi/14 hours; rig up Halliburton, pump 2/01/90: in 65 bbls of Clay-Stay treated freshwater, pressure decreased to 0 psi, pump in 15 additional bbls; rig up HLS, perforate Mississippian from 4838' to 4868', all 2 shots/foot; pump in 40 additional bbls of treated freshwater to keep well under control; run in Halliburton PPI treating packer and 47 joints of new, 2 3/8" tubing, pump 40 more bbls to keep well under control; resume running tubing, land tubing at 4798'; pressure test tubing and tool to 2500 psi; release tool and drop RFC valve, spot acid, individually treat each foot of perforations with 50 gallons of Fe acid per foot; maximum breakdown pressure 1900 psi, average breakdown pressure 1700 psi, average treating pressure 1250 psi at 1 BPM; 2100 gallons (50 barrels) of acid release tool and fish RFC valve; pull tubing and packer; rig up casing swab, make 4 swab runs, well kicked off flowing, flow back acid and load water, flowing an estimated volume of 1,250 MCFG/day, shut-in well, SDFN.

2/02/90: SICP--1500 psi/10 hours; rig up Halliburton, start 3000 gallons of Fe acid, start flush, acid on bottom/ establish rate of 34 BPM at 1600 psi, flush in, ISIP 140 psi; swab back acid and load, well kicked off flowing back acid and load, shut in well in order to gell frac tanks without interference from acid/load water spray off swab tank; rig up Halliburton, frac well down casing with 10,000 lbs of Oklahoma #1 100 mesh sand, 54,000 lbs of 20/40 Ottowa frac sand, 98,000 lbs of 12/20 Brady frac sand and 77,000 gallons of My-T-Gelled treated freshwater; frac treatment breakdown as follows:

BPM	VOLUME (GAL)	PRESSURE (PSI)	DESCRIPTION
16	0	1140	Start pad to kill well
16	3,000	0	Well dead, change valve on wellhead.
32	3,400	3500	Pressure test lines
32	3,400	850	Restart pad, establish rate.
32	7,500	850	Start 10,000 gal w/0.5 ppg 100 mesh sand
32	17,500	840	Start 5,000 gal w/1 ppg 100 mesh sand
32	22,500	760	Start 3,500 gal pad
32	26,000	890	Start 4,000 gal w/1 ppg 20/40 sand
32	29,250	810	1 ppg 20/40 sand on bottom

Completion Report #5 Sternberger Page 3

VOLUME (GAL)	PRESSURE (PSI)	DESCRIPTION
30,000	790	Start 4,000 gal w/2 ppg 20/40 sand
34,000	660	Start 6,000 gal w/2.5 ppg 20/40 sand
40,000	630	Start 9,000 gal w/3 ppg 20/40 sand
49,000	620	Start 6,000 gal w/3 ppg 12/20 sand
55,000	590	Start 8,000 gal w/3.5 ppg 12/20 sand
63,000	590	Start 13,000 gal w/4 ppg 12/20 sand
76,000	670	Start 4,000 gal gel flush
	1100	Sand clear
80,500	1100	Flush in
	30,000 34,000 40,000 49,000 55,000 63,000	30,000 790 34,000 660 40,000 630 49,000 620 55,000 590 63,000 590 76,000 670 79,800 1100

ISIP 550 psi, 40 psi in 15 minutes; change out Halliburton head with Clarke Corp mastergate, SDFN.

2/3/90: Zero pressure on well; run in 147 joints of new 2 3/8" tubing, seating nipple on top of 1st collar, land tubing at 4798', rig up tubing swab, hit fluid 1300' DFS, well kicked off flowing after 1st swab run; flow well into swab tank until out of tank room, shut well in to hook up test separator and test storage tank; put on adjustable choke and gas prover, test well as follows;

TIME	ВРН	TOTAL LOAD	OIL %	TBG	CSG	GAS VOLUME
1700	73	150 bbls	5	560	320	1,020 MCF
1800	61	211 bbls	5	600	400	1.147 MCF
1900	57	268 bbls	5	650	500	1,314 MCF
2000	22	290 bbls	8	950	590	1,185 MCF
2100	28	318 bbls	10	935	680	1,185 MCF
2200	34	352 bbls	12	920	760	1,370 MCF
2300	15	367 bbls	15	915	840	1,475 MCF
2400	19	386 bbls	15	930	905	1,475 MCF
0100	['] 13	399 bbls	16	930	970	1,540 MCF
0200	28	427 bbls	17	925	1000	1,576 MCF
0300	28	455 bbls	17	930	1070	1,576 MCF
0400	28	483 bbls	20	940	1150	1,750 MCF
0500	27	510 bbls	20	940	1225	1,990 MCF
0900	15	711 bbls	20	945	1380	2,010 MCF

2/7/90: 1550 psi SITP & SICP; hooking up surface equipment and tying in gas sales line; preparing calculated gas open flow to determine allowable. 2/8/90: Began producing gas into CMX line.

Completion Report #5 Sternberger Page 4

2/9/90: Well producing 1,827 MCFG/day, 1350 psi FTP, 1520 psi FCP, produced 280 bbls of total fluid in 16 hours, oil percentage not known at this time.

Complete Geological Services

DOUGLAS H. MCGINNESS II

Drlg. & Comp. Supervision

CERTIFIED PETROLEUM GEOLOGIST

AAPG#3962 KGS SIPES



January 17, 1990

CMX, Inc. 150 N. Main, Suite 1026 Wichita, Kansas 67202

Re: CMX, Inc.

#5 Sternberger 100' E. C SE SW

7-35S-13W

Barber County, Kansas

GEOLOGICAL COMPLETION REPORT

OPERATOR:

CMX, Inc.

CONTRACTOR:

Duke Drilling Company, Rig #2

SPUD DATE:

January 6, 1990

COMPLETION DATE:

January 16, 1990

SURFACE CASING:

8 5/8" x 24 ppf @ 389.13' w/260 sx.

PRODUCTION CASING:

4 1/2" x 10.5 ppf @ 4919' w/150 sx.

ELEVATIONS:

1515' G.L., 1523' K.B. (All Measurements

from K.B.)

TOTAL DEPTH:

4920' RTD, 4914' LTD

DRILL STEM TESTS:

2 - Western Testing Company

WELL LOGS:

HLS---DIGL, SDL/DSN II, ML, FWS, LLS, CORAL

FULL HOLE CORE:

2 - HOMCO; Liberal, Kansas

CORE ANALYSIS:

Douglas H. McGinness II, HLS and HOWSCO

REFERENCE WELL:

Sternberger #4, C E/2 SE of 7-35S-13W

An unmanned Chromatograph and Hot Wire gas detector unit (Payne) were on location and in working order from 1800' to RTD. A 1' drilling time log and 10' samples were saved from 2200' to RTD. Geological wellsite and drilling supervision by Douglas H. McGinness II. Drilling samples were turned into the Kansas Geological Survey Well Sample Library in Wichita, Kansas.

FORMATION TOPS

FORMATION	WELL LOG	(DATUM)	SAMPLES	(DATUM)	S.C.
Kanwaka Shale	3739	(-2216)	3743	(-2220)	-15'
Elgin Sandstone	3745	(-2222)	3749	(-2226)	- 2'
Heebner Shale	3953	(-2430)	3955	(-2432)	+ 2 *
Toronto Limestone	3962	(-2439)	3964	(-2441)	+ 3'
Douglas Shale	4017	(-2494)	4017	(-2494)	+ 5'
Lansing-Kansas Cit	y 4137	(-2614)	4139	(~2616)	+10'
Stark Shale	4612	(-3089)	4617	(-3094)	+ 9'
Cherokee Shale	4798	(-3275)	4800	(-3277)	+ 8'
Mississippian	4809	(-3286)	4811	(-3288)	+ 8'
Total Depth	4920	(-3397)	4914	(-3391)	N/A

DESCRIPTION OF ZONES OF INTEREST

Elgin Sandstone Member --- 3795' to 3804' (HLS)

Sandstone, light gray, some silt material and clay minerals in matrix, fine to medium grained, sub-rounded to sub-angular, fair sorting, fair inter-granular porosity, no shows or gas detector increases.

Lansing "A" Zone Equivalent --- 4143' to 4158' (HLS)

Limestone, light gray to tan, fine to medium crystalline, oolitic, oocastic, some fossil fragments, fair to good interparticle and intercrystalline porosity, fair show of gas bubbles on break, bright gold florescence, positive CCl₄ test, 100 unit chromatograph increase, 15 unit hot wire increase.

DST #1 - 4148' to 4164' (Straddle Test) 356' Tail Pipe 30-45-45-60

Strong Blow Initial Flow & Final Flow Periods GTS/immediately on second opening

Gauged 5.05 MCFG pd/45 minutes

Recovered: 120' Muddy Water

240' Salt Water

Sample - 110,000 ppm [Cl]

ISIP: 1610 psi FSIP: 1610 psi FFP: 101-111 psi FFP: 172-203 psi IHP: 2125 psi FHP: 2105 psi

BHT: 117 degrees F

January 17, 1990 Page 3 (cont.)

Mississippian --- 4809' to 4832' (HLS)

Chert, white to tan, opaque, fresh to weathered, <u>fractured</u>, scattered vuggy porosity, good show of gas emitting from rock, good show of free oil oozing from pore spaces and fractures, bright gold florescence, positive CCl₄ test, good odor; some interbedded shale, gray-green.

Note: This interval was cored. The core analysis will be forthcoming from HLS and HOWSCO.

Mississippian --- 4834' to 4862' (HLS)

Decrease in Chert, white to tan, fresh to weathered, fractured, still carrying good oil and gas show; bulk lithology change to siliceous dolomite, cherty, granular, fair to good inter-granular and vuggy porosity, good show of gas bubbles on break, fair to good show of free oil and condensate on break, good odor, bright gold florescence, positive CCl4 test, 100 unit chromatograph increase, 45 unit hot wire increase.

DST #2 - 4814' to 4865'
30-45-45-60
Hit bridge going to bottom
Plugged Tool---Misrun

Mississippian --- 4874' to 4920' (HLS)

Slight increase in percentage of fresh chert in siliceous dolomite, samples still carrying good show of hydrocarbons and odor.

WELL LOG ANALYSIS

Interval	Acou. Poro	Rt	Rw	Sw
4810' - 4815'	16 to 23%	17 ohms	0.05	30%
4818' - 4820'	20%	15 ohms	0.05	30%
4822' - 4829'	17 to 19%	15 ohms	0.05	30%
4832' - 4866'	12 to 14%	10 ohms	0.05	50%

REMARKS AND RECOMMENDATIONS

Structurally, the #5 Sternberger ran regionally low to the #4 Sternberger from Mid-Permian to Upper Pennsylvanian sediments. However, once the mid-Pennsylvanian was penetrated, an abrupt change in structural position was encountered. The top of the Lansing-Kansas City Group was encountered 10' structurally high to the #4 well. A small amount of gas was recovered on drill stem test of the "A" zone equivalent member, however, the results were non-commercial.

The top of the Mississippian was encountered 8' structurally high, to the #4 Sternberger. The top 29' of Mississippian was cored in 2 runs. Due to excessive fracturing of the formation and wedging problems in the core barrel, it was necessary to cancel the coring of the lower siliceous dolomite zone. Visual observation of the core indicates that the top zone has excellent shows of gas and oil emitted from natural fractures and pore spaces. Sample examination of the lower siliceous dolomite zone shows the zone to be quite similar to the zone in the #4 Sternberger. A drill stem test was attempted over the 2 zones; however, drill cuttings entered into the test tool ports resulting in a plugged tool.

The upper portion of the Mississippian is represented by 3 lenses of chert with a net thickness of 15' of pay. Based upon core and well log analysis, these 3 lenses should be gas productive. The telemetric Spectral Density/Dual Spaced Neuron log shows excellent cross-over, or gas effect. Cross-over of this magnitude in the Mississippian in this area is generally a sign of a quality gas bearing reservoir.

The lower zone appears to have a net thickness of 36', which is about 10' to 15' thicker than the #4 Sternberger. Further, the resistivity is about 3 to 4 ohms higher, which is an indication of a higher bulk volume of hydrocarbons.

Based upon core, sample and well log analysis, it was recommended that 4-1/2" casing be set 1' off bottom and the Mississippian be perforated and completed as necessary to obtain commercial production.

The interruption of the regional dip-off of the basal Pennsylvanian and Mississippian strata indicates that the #5 Sternberger was drilled on a paleo-structure. This condition probably accounts for the excellent upper chert zone and lower siliceous dolomite zone development. In addition to enhancing the Mississppian reservoir, the presence of a paleo-structure on the southwestern portion of the acreage could lead to a commercial Lansing-Kansas City gas discovery and possibly, deeper, Ordovician discoveries. It is recommended that the #6 Sternberger be taken to the top of the Ordovician, estimated at 5350', to test for possible hydrocarbon accumulations. Overall, the preliminary results of the #5 Sternberger increases the value and potential of the existing and additional acreage around the location.

January 17, 1990 Page 5 (cont.)

In conclusion, upon receipt of the petrographical and petrophysical analysis of the core, CMX will commence completion of the #5 Sternberger in the upper chert and lower siliceous dolomite zones. The specific perforation intervals will be decided once the frac height predictions and Young's Modulus programs are finished.

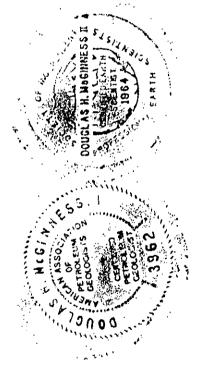
Respectfully Submitted,

Douglas H. McGinness II

Certified Petroleum Geologist

Certified Earth Scientist

DPA/AAPG #3962 SIPES #1964





PRANT KS

BILLED ON TICKET NO	V~		73
TICKET NO	(2) w	A	1.0

ELD				sec. Z twp.	ELL DATA		COUNTY	<u> 13 12</u>	<u> </u>	STATE	KS
RMATION	NAME		TYP			NEW	WEIGHT	SIZE	FROM	то	MAXIMUM P
			FROM	то	CASING	N	10,5	41/2	K3	4919	
		BPD, WATER			LINER						
TIAL PRO		BPD, WATER			TURING						
		MUD TY			OPEN HOLE						SHOTS/FT.
		MUD TY			PERFORATE	ON5				T	1
CKER TY			SET A		PERFORATION	ONS ·				<u> </u>	
	ب ایک اینکار	26 Tates (86,	PRESSURE	d/110 x	PERFORATION		 		 		
C. DATA	<u>~ 77.</u>	e cathe (V.	TOTAL	الأومة الاستان المساورة . ال	OB DATA				I	<u> </u>	
•		TOOLS AND AC	CESSORIES	J	CALLED OU	т	ON LOCA	TION	JOB STARTE	o Jo	COMPLETED
	TYPE AN		OTY.	MAKE	DATE -	- 3.5	DATE	16-90	DATE] - 11	. 90 na	TE !-16 -90
DAT COL			-		TIME 4		1 '		TIME	TIM	
		5:34	,		TIME	UU			D SERVICE		·
DAT SHO		44,		111 15 Cap				JANEL AN			
DE SHO		ş f	 	1.002			NAME		UNIT NO. 8		LOCATION
NTRALIZI		<u> </u>	44	Phonesis	- 13 3		ş .	· · · · · ·	15 (c Kw)	S Va	es Ps
TOM PL		• •				<u> भिट</u>	<u> </u>	1690		3 4	7 1
PLUG	-L7 WC		 	A comba	_			21112	ران آن الم		W-
AD \-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	<u>(</u>	ř s	 - - - - 	Law, Section		<u> </u>		26633	3012	3 1R4	HT KS
KER		<u> </u>		<u> </u>	42		2.11		326K 7		120 m
ER				<u> </u>	<u> </u>	<u>ა₿</u> ⁄3	12 3	0000	1340-30	11 5%	BEND K
		MATER	IAL\$						}		
AT, FLUI	ıp		DENSITY	LB/GAL	0 -API			, <u> </u>			
			DENISTY		Λ						
P. TYPE		SIZE		LB	JUICI	\LA		· ·	1		<u>.</u>
P. TYPE.		SIZE		LB,	וטואג	VА]		
TYPE_			AL	%							
D TYPE.				%]		
D TYPE		g				7.	mEN7		<u></u>		
		G	•	IN	DEPARTMENT				12 Han	NIC TION	CSG
AGENT T		G			DESCRIPTION	OF JOB	<u></u>	<u>-0.1 "1</u>	KU.	DIAC TICAL	7.712
	ADD. TYPE			1N							
	ENT TYPE	GAL		IN							
., RED. A	GENT TYPE _	GAL	LB	IN			, pure 17	CAS		ANNULUS []	TDC
AKER TY		GAL	·L8	N	JOB BOLE TI	™U; TL	سر سر	,,,,,ter ≈, CAS	Anna Park	ANNULUS []	TBG./ANN.
CKING A	GENT TYPE_			AL,-LB	CUSTOMER	V	y (77	MA.	MJ	
FPAC BA	LLS TYPE			rTY	REPRESENTA	TIVE. 🥂	تعييل ``	<u> </u>	111		·····
IER			 -			/		بمشرخ يستري		500.55	(\ <u>'</u>
ER					HALLIBURTO	10 / 1	1305 J	1 160	10-	COPIES REQUESTED	
	 	 		CEM	IENT DATA	/	, ત્ર પદ				 _
rage	NUMBER OF SACKS	CEMENT	BRAND	BULK		ADDIT	IVES			YIELD CU.FT/SK.	MIXED LBS./GAL.
 	1	en j	 	1 1	" v 15"					<u> </u>	
$-\!\!+$	150	Teles 12 Poll	Howco	8 - K 6	7			(41. 32.4)		1 57	14.12
		ļ		<u> </u>	1 y2 # 1-	$t_{i \rightarrow 0}$	(E		·	<u> </u>	<u> </u>
		ļ		 					·- ·····	<u> </u>	
		ļ		 				<u></u>		 	
		<u> </u>	<u> </u>	L					<u></u>	<u> </u>	<u></u>
		PRESSURES IN	_	SL	IMMARY		4	VOLUI		Swif a.Z.	
ULATING			DISPLACEMENT.		PRESLUSH: 58L	·GKL		704.	TYPE_	180 C 1 Ex) //
KDOWN	·	^	AXIMUM		LOAD & BKDN:	BBLGAI			PAD	: BBLGAL,	.42
AGE		FRACT	URE GRADIENT.		TREATMENT: BE	LGAL			DISP	L: BBL. WAL	75, 6
r-IN: IN S	TANT	HYDRAULIC HOI	DEEDOWED	_15-MIN	CEMENT SLURR	Y; BBL	3xc	2,4_			
		HIDRAULIC HOI	ROCFOWER		TOTAL VOLUME	88L-G	4L	 _			
ERED		AVAILABLE AVERAGE RATE	S IN DOM	_useo		-,	, ,	REMA	RKS		
		AVERAGE HATE	.5 IN BPM		<u> </u>		<u> 5 1.</u>	81 ⁵)			
TING		CEMENT LEFT	0	VERALL.							
, 1140		CEMENT LEFT	IN PIPE					140	1.5		
	1.65		ATT L					1 /4/1	<u> </u>	, ,	

FORM 1906 R-11



TICKET No. 851572-7

A Division of Halliburton Company

WELL NO FARM OR LEASE NAME				COUNTY		S	TATE		CITY / OF	SHORE LO	CATION]	DATE				
5 37	FAN BOLCO	1		19005	in Book		_ \$5			- 1.				E) NITROGEN JO				
CHARGE TO	-					OWNER	, -						HECK ONE)	EN JOB				
(/// X						5.4	m : E.				SERVICE [SALES	SALES YES NO				
ADDRESS						CONTRACTO				ľ	1		,	, C	JUDE			
CITY, STATE, ZIP						SHIPPED VIA		FREIG	HT CHAR	GES	LOCA	TION	<u> </u>	CODE				
5/1 () 5 (1 () E					i	5.112		<u> </u>		COLLECT	2		فير	15	5	ر د		
WELL TYPE	WELL CATEGO	RY		WELL PERMIT NO.		DELIVERED T		<u></u>		—- <u>-</u>	1004		سلسنت		ODE	<u>) </u>		
OA	Oi				Luck C.				,	3			}					
TYPE AND PURPOSE OF			·	D		ORDER NO.				F	EFERRAL	LOC	ATION					
035				B- 876	1118													
As consideration of invoice. Upon Co	on, the above-named Custon ustomer's default in paymen a applicable, but never to ex of 20% of the amount of th	neragi z of Cu	rees to pay Hall stomer's accou	iburton in accord with the street of the street day of the	he rates and term month followin	ns stated in Haling the month in	liburton's curr which the inv	ent pric	dated, Cust	oices payabl	s to pay in	the 20	Oth of the fol I thereon aft	lowing more or default a	oth after o	late iest		
fees in the amount	of 20% of the amount of the	unpai	d account. Thes	e terms and conditions a	shall be governed	by the law of t	the State wher	e servic	ces are perf	armed or ea	pripment o	r mate	erials are fur	nished.	CHANIVA	WIITY		
FITNESS FOR A PAR of action (whether in	rrants only title to the produ TICULAR PURPOSE OR OT a contract, tort, product lia on their return to Halliburt	HERWI bility,	SE WHICH EX breach of war	TEND BEYOND THOSE anty or otherwise) aris	STATED IN THE	Sale or use of	PRECEDING	SENTE 5. SLIPH	ENCE, Halli	burton's lin terials is ex	bility and pressly li	custo	omer's exclusive copia	sive renaid rement of	y in miy such mo	cause dosts,		
punitive or consequen	on their return to milliburt tial damages.	OII OI.	at Hallimirton s	option, to the allowan	ce to the custor	mer Of cledit !	or the cost o	i sugli	items. In n	o gvent sha	JP Hallsteit	100 12	et halde ten x	spensial, unci	Kiemal, m	rhrect,		
PRICE	SECONDARY REF	Į Ļ		D.C.	CRIPTIO			UNITS	3 1	UN	ITS 2		UNIT					
REFERENCE	OR PART NO.	C.	ACCOUNT		CRIPTIO		01	TY	MEAS	QTY	ME	AS	PRICE	<u> </u>	AMOUN	 		
000.410		1		MILEAGE			<u> </u>	ر (د	1 1 1 1 1 1		1 -	, , ,	1 60	[[66	ממ		
		1		. 7	<i></i>			· <u></u>	214	·		"	975 2		, -, -	<u> </u>		
201-016	<u> </u>	1/		Property	11/1/11		49	216	PP	<u> </u>	8 4	۲۷	1,3	11	<u>; </u>	00		
ملنع ع30		L		To 1 8	DT E			_1_	! SA	7	<u>72) .</u>	,		<u> </u>	<u>רבת</u>	<u>00</u>		
· 在 · 这种的	Bur One			778 3 8 m 1 mm	6	Jan ut		,	5,4	-	z		_		77			
11/1/11/11	212-14101	 •	_	STATE (1347	Val V			1		76 30	١	-		/)	ω		
-20	31519415	1		full w	<u>UNITE</u>				15A-	1	12 3	[17	50		
40	Po 7-93001	1		SEALT KAK	17.283		ļ	4	ŀέΑ	4	12/10	<i>i</i>	4/00	16	ا مری د	ن		
018.311		Ι,		E Acres		· ·	1		5%	44."			145	Ţ	, C. (200		
013.31		╁┸		~9 JEC 841	1)		_ /		1 ~/C.:	ل <i>ين السيح</i>	<u>حمدًا لکوہ</u> ا	± 4.	7751	 	-3-1	00		
		 	<u> </u>			- -			<u> </u>	·	_ <u> </u>			<u> </u>				
	•				. *	Production of the second				ند مر		-			ļ			
		T		٠,٠	11	(many			[\]	السير سم	1	7						
	·····	-			~ <u>}</u>	Victorian Company		<u> </u>	1 1	<u> </u>		-1		-		 -		
				20 Dil	<u> </u>		1/200	<u> </u>	1. 77	June man		- 1						
) الاست ^ا	ANTIC	3.11 A V		M.J.		1		į	Ì	l		l			
,				7 1.	1114	13 1 V.	7.5		i	-	i	寸						
		+		T This		<u> </u>	- 		} 	-		+		 				
			James 1	1/1/1/	1		_				- ;	_		ļ				
	, same		75	17 July					1		1				<u> </u>			
	$MI \sim$		111	,							I I	\neg		1				
	11.00						 -		! - 		- i -	_		 -				
-				_ 					! !		- 			 	 -∤			
				·		. <u> </u>												
j			1				1				- } .							
						·····			1	-	1	一		 				
		 					_		 	 		_		 				
											_ i			L _				
AS PER A	TTACHED BULK	M	ATERIAL	DELIVERY TIC	KET NO.		B-		19.	118				18	2/	<u>হ</u>		
WAS JOB SATISFACTORILY I	COMPLETED?			WE CERTIFY	THAT THE FAIR L	ABOR STANDA					N			1/1/	71	ني <u>ر؟ موج</u>		
WAS OPERATION OF EQUIPM				FURNISHED U	NDER THIS CON	TRACT.	LOUIS MAID OF	v**1M	neareli	. o BERVICE			1	[1	•		
WAS PERFORMANCE OF PE	RSONNEL SATISFACTORY?			* 1, 1 1 to	///	and the same	J. 37	ويممج										
· TOM'	Commes	~	77		fillers of	University .	11/1	TOP					SUB TOTAL L	DOLLO A DE	E TAU-	C 1481 -		
CUSTOMER OR HI	S AGENT PLEASE OR		safesi (k	7		HALLIBURT	VPERA بامر	AI OF						PPLICABL E ADDED				
Y Complete	NNO			HALLIBURTO APPROVAL	N													



And the state of the second state of the s **BULK MATERIALS DELIVERY** AND TICKET CONTINUATION

FOR INVOICE AND \$5/573

DATE	CUSTOMER ORDER	CUSTOMER ORDER NO.			WELL NO. AND FARM	L NO. AND FARM COUNTY				STATE					
1-16-90					Sternberger	#5			arber				Ka•		
CHARGE TO	-				OWNER		CONTRAC	CTOR				No R	8792	18	
C.M.X. TE	corporated				C.M.X. Inc.		Duke	e Di	rlg.	PREPAR	50.8V		0102		
MAILING ADDHESS					DELIVERED FROM	•				PHEPAR	FDBT				
CITY & STATE					Great Rend.	(8.	TRUCK N	<u> 320</u>		S. (C.	lenry			
							1540					حلا	Л		
		ī	- T		Location		1 121	<i></i>	<u> </u>		- 7	$\frac{S16}{}$	<i>اد_</i> ا		
PRICE REFERENCE	SECONDARY REF. OR PART NO.	COL	ÞΕ		DESCRIPTION		UNITS	š 1		UNITS 2		UNIT PRICE	AMOUN	≀T	
	PART NO.	L	D				QTY.	MEAS	s. <u>a</u> r	Υ. ΙΝ	IEAS.			т —	
504-308	516.00261	2	В	Standard	Cement		150	sk				5.35	802	2 50	
507-277	516.00259	2	В	3 Hallibu	urton Gel 2%W/	150	3	 sk	_	İ		13.00	39	.00	
	70.15573	\Box	В		Blended 8#W/		1200	1b	\prod	i		-35	420	0.00	
	890.50071	ſΠ	\neg		lended 1/2#W/	**	75	i				1,23		2.25	
								_	1	K	₹य				
508-127	890.50131	2	В	<u>Cal Seai</u>	Blended 5#w/1	50		sk	 		$\frac{3}{5}$	14.90	175	.20	
		\sqcup	-					!	(6	1				-	
			\dashv					عيا	17/	2)				1	
					SINAL			1] 					
				UMI	JINAL				2	į Į					
	- ,		\dashv	· · · · · · · · · · · · · · · · · · ·			CEN.	` <u>`</u>							
		H	\dashv					<u> </u>	-					 	
	<u> </u>	\vdash				- 23 - 1	<u>`</u> ```		-		\dashv				
		Ш	_	·		(2)		<u> </u>	<u> </u>		_				
		Ц				(199)		! !		1		<u> </u>			
			1			2,	i			į	- }				
					(\$)										
			_						 -	- 					
	<u> </u>		+		<u></u>			<u></u>	 -						
						·			ļ						
			_		177		_		<u> </u>		_				
	<u></u>				<u> </u>										
							 			<u> </u>					
	_							-							
					· · · · · ·	···				-					
				Returned			i	T	1						
				Mileage Charge	TOTAL WEIGHT	LOADE	D MILES	TO)N MILE	S					
	,									•					
-		·	5	SERVICE CHARGE O	N MATERIALS RETURNED			C	J. FEET						
	-									. ^	_				
500-207		2 13	_	SERVICE CHARGE			· · · · · · · · · · · · · · · · · · ·		J. FEET		Ž -	•95	175.	75	
500-306		2		Mileage Charge	16.457 TOTAL WEIGHT	LOADS	O ED MILES	170	246.8	86 s		.7 0	172.] ₈₀	
070	218	1	7												
ио. В 813	L10					CARE	RY FORWAR	о то і	INVOICE	 	SUB-TO	TAL	1821.	50	
			FC	ORM 1911 - R6 REV. 8-	85										