STATE CORPORATION COMMISSION OF KANSAS  OIL & GAS CONSERVATION DIVISION  WELL COMPLETION FORM  ACO-1 WELL MISTORY  DESCRIPTION OF WELL AND LEASE	API NO. 15- 135-23,744 - 6600
Operator: License # 3903	530 Feet from SK (circle one) Line of Section
Mame: Mar-Lou Oil Company	4150 Feet from (E) W (circle one) Line of Section
Address P. O. Box 218	Footages Calculated from Nearest Outside Section Corner: NE, SE, NW or SW (circle one)
City/State/Zip Wilson, KS 67490	Field Name Unice East
Purchaser:	Producing Formation Mississippi
Operator Contact Person: Marlin B. Robinson	Elevation: Ground 2624' K8 2629'
Phone ( <u>913</u> ) -658-2246	Total Depth 4570' PBTD
Contractor: Mass: Emphasis Oil Operations	
License: 8241	Amount of Surface Pipe Set and Cemented at 264 Feet
Wellsite Geologist: L. O. Chubb	Multiple Stage Cementing Collar Used? Yes X No
Designate Type of Completion	If yes, show depth set Feet
X New Well Re-Entry Workover	If Alternate II completion, cement circulated from
OilSUDSIOWTemp. Abd.	feet depth to w/ sx cmt.
x Ory Other (Core, WSW, Expl., Cathodic, etc)	Drilling Fluid Management Plan PAR 2-12-93 (Data must be collected from the Reserve Pit)
If Workover/Re-Entry: old well info as follows:	
Operator:	Chloride content 22,000 ppm Fluid volumebbls
Well Name:	Dewatering method used
Comp. DateOld Total Depth	Location of fluid disposal if hauled offsite:
Deepening Re-perf Conv. to Inj/SWD PBTD	 
Commingled Docket No.	Lease NameLicense No
Other (SWD or Inj?) Docket No.	Quarter Sec. TwpS RngE/W
4/29/93 5/7/93 Spud Date Date Reached TD Completion Date	County Bocket No
Spud Date Date Reached TD Completion Date	Socret wo.
Dorby Suilding, Wichita, Kansas 672G2, within 120 days of Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 12 months if requested in writing and submitted with the months). One copy of all wireline logs and geologist well	l be filed with the Kansas Corporation Commission. 200 Colorado f the spud date, recompletion, workover or conversion of a well. side two of this form will be held confidential for a period of a form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS lls. Submit CP-111 form with all temporarily abandoned wells.
with and the statements herein are complete and correct to t	•
Signature Marlin B. Robinson Title OPERATOR Date 7-	F Letter of Confidentiality Waterman [OMMISSIDA
Subscribed and sworn to before me this 12th day of July	[ C Geologist Report Received /   /
19 93	Distribution
Notery Public Alex da R. Diffin Glenda R. Tiffin	KCC SWD/Rep NEPA   PLug CONSERVATION   Wickshed Cayers
Date Commission Expires 2-6-96	
GLENDA R. TIFFIN  NOTARY PUBLIC  STATE OF KANSAS  MY APPT. EXPIRES 12-6:96	Form ACO-1 (7-91)

MSTRUCTIONS: Show interval tested, time ydrostatic pressures f more space is need	e tool open er , bottom hole 1	nd.closed, flowing a temperature, fluid re	and shut-in press	ures, wheth	er shut-in pre	ssure read	ched static law	
rill Stem Tests Take (Attach Additional	on .	∑ Yes □ No	Log	Formation	n (Top), Depth	and Datum	sample	
•	ent to Geological Survey Yes 🔀 No		Hame	,	Тор		Datum	
ores Taken	• , •		Anhydrite Heebner		2028		601'	
ectric Log Run		☐ Yes ☑ No	Lansing		3897 <b>'</b> 3945'		1268'	
(Submit Copy.)		•	Base Kans	as citv	4250 <b>'</b>	1010		
st All E.Logs Run:			Ft. Scott		4448'		1819'	
			Mississip	o <b>i</b>	4465'		1936'	
			R.T.D.	•	4470'		1941'	
		CASING RECORD						
	Recort al	L strings set-conduc	区 New C Use		nandustin st	_		
urpose of String	Size Hole Drilled	Size Casing Set (In 0.0.)	Weight Lbs./Ft.	Setting Depth	Type of Coment		Type and Perce	
Surface	121"	8-5/8"	20#	264'	60/40	160	2%gel, 3%c	
					00740	100	2 sqe1, 3 sc	
		AMOITIGGA	CEMENTING/SQUEEZ	E RECORD				
urpose:	Depth Top Bottom	Type of Cement	#Sacks Used	#Sacks Used   Type and Percent Additives				
Protect Casing								
Plug Back TD Plug Off Zone	<u> </u>					Coment Sa	weeze Record	
Plug Back TD Plug Off Zone	PERFORATION Specify Footing	RECORD - Bridge Plu e of Each Interval P		Acid, ( Amount and	Fracture, Shot, I Kind of Materi	al Used)	Depth	
Plug Back TD Plug Off Zone	PERFORATION Specify Footing	RECORD - Bridge Plu e of Each Interval P		Acid, ( (Amount and	Fracture, Shot, I Kind of Hater	(al Used)	Depth	
Plug Back TD Plug Off Zone	PERFORATION Specify Footing	RECORD - Bridge Plu e of Each Interval F		Acid, (	Fracture, Shot, I Kind of Hateri	al Used)	<del></del>	
Plug Off Zone  Shots Per Foot	PERFORATION Specify Footeg	RECORD - Bridge Plu e of Each Interval P	Perforated	Acid, ( (Amount and	i Kind of Hateri	at Used)	<u> </u>	
Plug Back TD Plug Off Zone  Shots Per Foot	Specify Footing	set At	Packer At	Liner Run	Yes	Xo		
Plug Back TD Plug Off Zone	Size  ed Production,	set At	Packer At	Liner Run	i Kind of Hateri	No Ot		

.

# ORIGINAL Phone Plainville 913-434-2812 Phone Ness City 913-798-3843

· AL	<b>LIED CEMEN</b>	ITING CO., INC. 1242
New	Home Office P. O. Box 31	Russell, Kansas 67665
Sec.	Swp. Range 5.6	Called Out 5-7 On Location Job Start Finish
Date 5/7/93 23	165 26w 10:	50 1:45 3:45 6:15
Lease Weil No.		A/ County // State
Contractor Emphasis 7		Owner Sane
Type Job Roter Plan	•	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish
Hole Size 7 8	T.D. 4570	cementer and helper to assist owner or contractor to do work as listed-
Csg. 8 =	Depth 265	Charge To Mar Low O. Co.
Tbg. Size	Depth	Street
Drill Pipe 4 1	Depth 2090	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Purchase Order-No. //
Press Max.	Minimum	x 1 pm Hlm
Meas Line	Displace	CEMENT
Perf.		Amount
EQUIPA	ÆNT .	Ordered 265 69 40 6% Ge/ 4# Flases/
EQUI.	· · · · · · · · · · · · · · · · · · ·	Consisting of
No. Cementer	Gary	Common
Pumperk / 58 Helper	Keich	Poz. Mix  Gel.
No. Cementer		- Chloride
Pumptrk Helper		Quickset
Driver	B.11	
Bulktrk //6		- Color Ton
Bulktrk Driver		Sales Tax
		- Handling
DEPTH of Job Reference: D. T.		Mileage
Reference: June Touck		Sub Total
Milegie	<b>+</b>	
SE TW	p	
	Sub Total	Total Floating Equipment
	Tax	- Noting Equipment
	Total	
Remarks: 50 - 2090	1	
80 " " 1190		2 RECEIVED STATE CORPORATION COMMISSION
50 " " 700		
50" '295	1// // >	JUL 1 3 1993
10" " 40		CONSERVATION DIVISION Wichita, Yansas
15=x RH 10=x/		- William Manua

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TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwith-standing the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

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to, a reasonable sum as and for attorney's fees:

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- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner: and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and work-manship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

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plish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

1237

New	# H	ome Office	P. O. Box 31	1		Russ	ell, Kansas 6766	5		
Date 4/29/9	3 23	[wp.	Range 26W	C	alled Out	6	On Location 45	Job Start 7:40	Finish 8 PM	
Lease hippe	. Well No.	2	Locatio	·Utic	a Tou	wm 5	ite	County	State	
Contractor Emphasis 7			Owner /	Var	Land	210				
~ · · · · · · · · · · · · · · · · · · ·	9 c -e				To Allied	Cemen	ting Co., Inc.			
Hole Size / 2		T.D.	270		cementer	and help	per to assist own	cementing equipment as ser or contractor to do	nd furnish work as listed.	
Csg. 8 # "	20#	Depth	265	11	Charge _		1	110		
Tbg. Size	i i		To Emphasis Oil Operations							
Drill Pipe	,	Depth		;	Street 4					
Tool		Depth			City State  The above was done to satisfaction and supervision of owner agent or					
Cement Left in Csg.	15'	Shoe Join	nt	<i>‡</i>	contractor.					
Press Max.		Minimum			Purchase C	-	4	4/ 116		
		Displace	16.3	11)	<u> </u>		Chills +	716		
	•	Displace	16,0	6.01			C	EMENT		
Perf.					Amount Ordered	11.1	7 60/	20/1/2	9/ ( (	
-	EQUIPME	NT		•		101	) /40	2% Ge/ 3	10 C C	
No.	Cementer	1			Consisting Common	OI	<del> </del>			
Pumptrk /58	Helper		Jary Keith		Poz. Mix					
No.	Cementer		3.2.17.1		Gel. Chloride					
Pumptrk	Helper				- Quickset		······································			
10	Driver	B	: //							
Bulktrk 69 Bulktrk	Driver							Salas T.		
					Handling		·	Sales Tax	<u> </u>	
DEPTH of Job					Mileage		<u> </u>			
Reference:	TIL				Mileage				<del></del> -	
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Sub Total Tax		Floating E	quipmen	t	1	RECEIVED				
	,							CTATE CO	RPDR TION LINE	
Remarks:					<del></del>		. 9 3 1//~			
Cement Circulated			<u> </u>				II)L			
	<del></del>								ISERVATION DIVISION	
·							w	Cor	Wichita, Kansas	
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		Jan 0	t Ho.	<del></del>						

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plish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

# ORIGINAL

# CIMARRON DRILLERS, INC.

Geologist - Petroleum - Geophysicist P. O. Box 854

LEWIS O. CHUBB Phone (316) 793-6749 **GREAT BEND, KANSAS 67530** 

THOMAS L. CHUBB Phone (713) 251-1499

MAY 8, 1993

MAR-LOU OIL COMPANY P. O. BOX 218 WILSON, KANSAS 67490

RE: MAR-LOU OIL COMPANY
WHIPPLE NO.2
530' FSL - 4150' FEL
SEC. 23-16S-26W
NESS COUNTY, KANSAS

DEAR SIRS,

THE FOLLOWING IS THE GGEOLOGICAL REPORT FOR THE ABOVE CAPTIONED WELL.

CONTRACTOR

EMPHASIS OIL OPERATIONS RIG 7

DATE COMMENCED

APRIL 29, 1993

DATE COMPLETED

MAY 6, 1993

ROTARY TOTAL DEPTH

4570' RTD

SURFACE CASING

SET 8 5/8" CASING AT 264'

**ELEVATIONS** 

2629 KB; 2627' DF; 2624' G L

DEPTH MEASURED FROM

2629' KB

DRILLING TIME PLOTTED

3800' TO 4570' RTD.

SAMPLES EXAMINED

3800' TO 4570 RTD.

DRILL STEM TESTS

1 MISSISSIPPIAN (TRILOBITE)

ELECTRIC LOGS

NONE

COMPLETION

PLUGGED AND ABANDONED.

RECEIVED
STATE COPPORATION COMMISSION

JUL 1 3 1993

CONSERVATION DIVISION Wichita Kansas

# FORMATION DATA

FORMATION	DEPTH	SUB-SEA
ANHYDRITE	2028-2073'	601-556
HEEBNER	3897'	-1268'
TORONTO	3918'	-1289'
LANSING	3945'	-1316'
BASE K. C.	4250'	-1621'
MARMATON	4285	-1656'
PAWNEE	4385'	-1656'
FT. SCOTT	4448'	-1819'
CHEROKEE	4474′	-1845'
CONGLOMERATE	4519'	-1890'
MISS DOLOMITE	4465′	-1936'
ROTARY DEPTH	4470'	-1941'

# STRUCTURAL POSITION IN RELATION TO NEARBY TESTS

FORMATION	MAR-LOU WHIPPLE NO. 2	MAR-LOU WHIPPLE NO. 1	JASON UTICA TS NO.1
ANHYDRITE	601'	619'	617′
HEEBNER	-1268′	-1269'	-1248'
LANSING	-1316'	-1316′	-1295′
BASE K, C.	-1621'	-1627'	-1606'
MARMATON	-1656'	-1659'	-1639'
PAWNEE	-1756'	-1752'	-1742'
FT. SCOTT	-1819'	-1822'	-1806′
CHEROKEE	-1845'	-1844'	-1832'
CONGLOMERATE	-1890'	-1891'	-1880'
MISS DOL	-1936'	-1921'	-1914'
ROTARY TOTAL DEPT		-2016'	-1922'

# ZONES OF INTEREST

FORMATIOM	DEPTH	DESCRIPTION
TORONTO	3924-3930*	LIMESRONE, WHITE, CREAM DENSE, FINE GRAINED WITH TRACES OF FIN POINT POROSITY, CHALKY, NO SHOW.
LANSING "A"	3950-3962*	LIMESTONE, TAN DENSE, SLIGHTLY FOSSILFEROUS, POOR DEVELOPED POROSITY, WHITE CHERT, NO SHOW
(F)	4025-4035*	LIMESTONE, WHITE CREAM FIME TO MEDIUM CRYSTALLINE, CHALKY, SOFT, POORLY DEVELOPED OOLICASTIC AND PIN POINT POROSITY, NO SHOW
(6)	4056-4072*	LIMESTONE, TAN, GRAY, OOLICASTIC, DENSE MATRIX, POOR PERMEABILITY, NO SHOW.
(H)	4120-4124	LIMESTONE, TAN CREAM, SLIGHTLT FOSSILIFEROUS DENSE, NO VISABLE POROSITY, NO SHOW.
(K)	4200-4206	LIMESTONE, TAN, GRAY, SLIGHTLY OOLITIC, TRACE FOROSITY, CHERTY, DENSE, NO SHOW.
FT. SCOTT	4467-4469°	LIMESTONE, BUFF, FOSSILIFEROUS TRACE FINE GRAINED AND FOSSIL POROSITY, FAINT ODOR, NO VALUE
MISSISSIPPIAN	4565-4570	DOLDOMITE, TAN, BROWN, DENSE CRYSTALLINE, SLIGHTLY OOLITIC, OOLICASTIC, GOOD POROSITY, FREE OIL, ODOR, SATURATION, TEST.
DST NO 1	4532-4570*	WEAK BLOW (2") REC. 60' OIL CUT MUD. IHP 2269# IFP 49-49# (30 MINUTES) ISIP 187# (30 MINUTES) FFP 49-49# (30 MINUTES) FSIP 137# (30 MINUTES) FHP 2097#

#### SUMMARY

THE SUBJECT WELL WAS UNDER GEOLOOGICAL SUPERVISION FROM 3800' TO 4570' RTD. THE WELL RAN REASONABLE WELL TO THE WHIPPLE NO. 1 UNTIL THE BASE OF THE PENNSYLVANIAN WHERE THE CONGLOMERATE THICKENED AND THE MISSISSIPPIAN DOLOMITE WAS ENCOUNTERED ABOUT 15' LOW.

A DRILL STEM TEST WAS TAKEN OVER THE TOP 5° OF THE PAY ZONE, RECOVERING A SMALL AMOUNT OF OIL AND MUD WITH VERY LOW PRESSURES. FIGURING FROM THE LOGS IN THE AREA THE WATER ZONE WAS AT A SUB-SEA OF -1940, AND THE BOTTOM OF THE HOLE WAS - 1941. THEREFORE; DRILLING DEEPER FOR BETTER PRESSURES WOULD PUT US IN THE WATER ZONES.

THE WELL WAS PLUGGED AND ABANDONED ON THE BASIS OF THE LOW STRUCTURAL POSITION AND THE RESULTS OF THE DRILL STEM TEST.

RESPECTFULLY SUBMITTED, CIMARRON DRILLERS. INC.

L. O. CHUBB, GEOLOGIST.