Form CP-4

STATE OF KANSAS STATE CORPORATION COMMISSION

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 No. Market
Wichita, Kansas

WELL PLUGGING RECORD

State Corporation Commission 212 No. Market	Rawlins		Count	y. Sec21T	wp. 1S Rge.	(E)	34(W)
Wichita, Kansas NORTH	Location as "NE	CNWKSWK"	or footage fro	m lines SE	NW NW	g paper from the later with the paper of the later by the later by	alla di la companya d
parametria i construir de construir de la construir de co	Lease Owner	Thomas	il Compar	AY and all time described when the contract to section the contract to	n parameter a sept en periode el frances en seu a partir dire profice el se llega e fe 22 d'inc	Well No	1
	Lease Name	1060 T4-		eet, Denve			MALES TO SHARE SAND SHARE MANAGES AND ASSESSMENT OF THE SHARE SAND SAND SAND SAND SAND SAND SAND SAND
Andrew Comments and Comments an	Office Address Character of We	Charles and the second section of the second	Market Mark Street Control of Con	NO. CO. CO. CO. CO. CO. CO. CO. CO. CO. C	011		·
	Date well comp		Au	gust 20,			19 59
i i	Application for			January 13	and the state of t	ASSESSMENT OF THE PROPERTY OF	19 69
The second secon	Application for p	plugging appro	ved	January 16	and Building and whom an expense of the last specified the	a accessment or the second front and second second	19 69
	Plugging comme	enced	ana ay santa an ar	March 16,		and the state of t	19 69
	Plugging comple	eted	Carrie (Poly and a creat above the control of th	march 1/,	Depleted O	1 1	19 69
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	If a producing	wall is abundar	ed data of la	et production	October 22	9	19 62
	Was permission	obtained from	the Conserv	ation Division o	r its agents befo	ore plugging	
Locate well correctly on above Section Plat	menced?	Yes				,	***************************************
Jame of Conservation Agent who sup	ervised plugging of this	s well W. I	. Nichol	s, Box 157	Morland,	<u>Kansas</u>	
Producing formation Lansing	Lime D	epth to top	146 Bottor	<u>4148'</u>	Total Depth of	Well 429 495	3 FeetPI
Show depth and thickness of all water	; oil and gas formation	s.				495	3
OIL, GAS OR WATER RECORD	OS					CASING RE	CORD
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FORMATION Towards a Tides	Oil	4146'	4148'	8-5/8"	446'	None	-
Lansing Lime		4140	4.140	5-1/2"	4859	1507	
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						payetherings account to deposit the constitution of	PLANES AND
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	THE RESIDENCE OF THE PROPERTY	AND		THE RESIDENCE OF THE PROPERTY	and the state of t	mm inchitecture recent descriptions and in the second particle of th	MARKET MARKET PROPERTY AND ADDRESS OF THE PARTY OF THE PA
with sand from 4293' 5-1/2"OD casing. Sh 1502'. Casing pulle Pulled 47 joints 150 Pumped 9 sacks of ge Pozmix cement, follo followed with 9 sack surface casing 5' be Job complete 1:00 PM	ot 5-1/2" casied free at 1502 7' of 5-1/2"OD 1 down 8-5/8"O wed with 22 sates of gel and 1 clow ground lev	ng as foll. 14# 8R R D casing, cks of ge O sacks o	lows: 30 -2 Condit followed 1, and 25 f 50/50 F	ion "C" ca with 50 s sacks of comix ceme	, 2000', 1 sing. acks of 50 50/50 Pozm	0/50 nix cemen of OMMISSION	
ACCOMMISSION OF THE CONTRACTOR	HEROOFI KATAR BARTIN SERVENSEN SERVEN SERVEN SANTAN SERVEN SERVEN SERVEN SERVEN SERVEN SERVEN SERVEN SERVEN SE	Citabal Bergelah, Characa State (Carabita - A-Carabita - Profit Kasilah Katiga, Brusses Frances	*************************************	2000-1912年16月1日 - 東京西西南西省中央区中北市中央1000年1月1日 - 1000年2月1日日本北京西省市西山東西安全3月1日日本	・ 寄生人が知られて他の存在が3年とは日本ではなりをいるからなか。 19年と人が出ることでは、日本では、日本では、日本では、日本では、日本では、日本では、日本では、日本	PRANT HANGE POR VIEW REAL & COM VIEW HOUSE PRACTIFICATION AND CAUSE WHEN	DECORPE-ANAMERICONAL DISSERVATIVACION CURPUSADA.
	(If additiona Southwest Cas	l description is ne	essary, use BAC	K of this sheet)	ellen variaasisconessevaan roise võikkessinavkistelootis roisea osa	nana jorustinara asia kiran kiran andara karan kar	ріне бік опстіліва співва спів на пів в пів в В
Name of Plugging Contractor	Box 364, Grea			7530	O MANAGO PRO BRO (MERO), ATTACA POSABLE EN APPENDADA EN ESPAÑOS, ESTA ESPAÑOS.	STANK LOUIZMANNA MARONAN MARONA ZAWA PERENDA AND AND AND AND AND AND AND AND AND	nacionale proposació de consistencio de del del del del del del del del del
Address				adornina la monocologico por esta de 1900 en esta esta esta esta esta esta esta esta	で表現的ない。(4のからでは大変な数数が大きなからからなりです。 000 kg になってきゃくにはいくない。 からないできゃくにはいくないが、メンジがあり、これではないできゃくだっている。	PROGRAM CONTON AND COMMUNICATION OF THE STATE OF THE STAT	AN BEGIN SAME HER SYMMET THE BEGINS THE COMMAND OF STREET SAME SAME SAME SAME SAME SAME SAME SAME
STATE OF Colorado K. L. Wyat well, being first duly sworn en oath above-described well as filed and th	, says: That I have kr	nowledge of the	e facts, staten	owner) or (cwa	- ,		
and a men as med such and	er me same are tine ()		voo om gon. C		huntt		
		(Signature)	1860 Line	coln Street	Denver.	Colorado	80203
					(Address)	CATALOG MAN CONTRACTOR	WHITE STATE OF THE
Subscribed and Sworn to be	fore me this 19t	day o	· ho		, 19	69	
T 1.	7 1070			<u> </u>	Later Commence of the State of	Notar	y Public.
My commission expires June 1.	7, 1970				1	// .	



Form CP-4

STATE OF KANSAS STATE CORPORATION COMMISSION Give All Information Completely Make Required, Affidavit Mail or Deliver Report to: Conservation Division

Conservation Division State Corporation Commission 212 No: Market		77 0 m and 7 1 .4 and an	0	5 C 01 7	7 D	1. (E) (II
Wichita, Kansas	Location as "NT					:.34(E)(W
NORTH			-			
	Lease Name		Treveic	- Lorniok	eren er er er foren mil vell er sterne die er	Well No#1
	Office Address_	1860 T	incoln S	t Denver	Colorado)
	ğ .	pleted		•		
	Application for	plugging filed_	····	September 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 1984 - 19		19
	Application for	plugging approv	red			19
	Plugging comm	enced		3-14-69		19
				2-17-69		
	Reason for abar	ndonment of wel	l or producin	ng formation		######################################
	70	37 - 7 7	7 7	7 . 3		10
				ast production_		
Locate well correctly on above						fore plugging was cor
Section Plat Name of Conservation Agent who supe	rvised plugging of thi	is well	T/	7. I. Nicho	ls	
Producing formation						F Well 43291 F
Show depth and thickness of all water,				A decision of the second secon	rotar Dopar o	. **
· ·	_					
OIL, GAS OR WATER RECORD	/ S					CASING RECORD
FORMATION	CONTENT	FROM	то	SIZE	PUT IN	PULLED OUT
				5 1/2"	43281	1506.07'
				8 5/8"	450	
			-			
,					REC!	SO 1963 SO 1963
					MA MA	SO DIVISION
		and the second s	**************************************		- FP	Chitas Kanzaz NATION DIVISION
	***************************************	The Publisher of the State of t	ermen vegetarine er scheidelichten gescheide sie gegebeld verweite sorte		CONSED	chita, Kai
					¥1.	

		and the commentation of the control	· · · · · · · · · · · · · · · · · · ·		,	
	(If additional	description is nece	Pegys was DAC	V of this shart		
Name of Plugging Contractor	Southwest	Casing Pul	ling Co.	n or this sheet)		
Address	Box 364. G				and the same of	
STATE OF Kansas Southwest Casing Pul well, being first duly sworn on oath, s above-described well as filed and that	ays: That I have kn	owledge of the	employee of facts, statem	ents, and matte	ner or operator)	of the above-describ
		(Signature)	W. C	· Spen	cul	Ler.
						The state of the s
and FR			Box 36	4, Great B	end, Kansa Address)	ıs
Subschibes and Sworn to before	re me this 19	day of_	Marc			69
一个人 人	_	•	5	`O	11	· . D D .
al tauth	alober 1	92-	- Jr	anny -	<u>., n</u>	Notary Public.
My commission expires	mount (112		9		.vom g I abut.

15-153-00034-00-01 Dually completed for oil and salt water disposal

SKELLY OIL COMPANY

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WEST								EAST
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PRODUCING FORMATION Lans:

3180°DF Well Record #66172 3178 GR Elev. 3175 BH Lease Name and No. Frances Horinek Well No. Lease Description NW/4 of Section 21-15-34W, Rawlins County, Kansas (160 Acres)

Location made June 15, 19 59 by P. J. Cussen NW/4 ______feet from North line ______feet from East line feet from South line 990 feet from West line of Sec. 21

TOTAL DEPTH PB 4300

REMARKS

6/17 19 59 Rig comp'd 6/18 19 59 Drlg. com'd 6/18 19 59 Drlg. comp'd 7/10 19 59 Rig Contractor Claude Wentworth Drilling Company Drilling Contractor Claude Wentworth Drilling Company, Tulsa, Oklahoma Cable Tool Drilling from To complete to 0. 4953* Rotary Drilling from Initial Prod. before shot or acid Show Completed: 8/20/59 Initial Prod. after shot or acid POB 24 hrs.. S.C.C. potential of 35 barrels Commenced Producing Dry Gas Well Press. Casing Head Gas Pressure Gas Pressure Braden Head (Gas Pressure ... Braden Head --- ((Input Formation: Arbuckle and Reagan - 4827 -4953) 4953* 4249* 4241*

CASING RECORD

Top 4278*

				Where	P	ULLED OU	T		LEFT IN	LIM	KIND	Cond'n		CEMENTING	M.TM
OD Size	\	Wt.	Thds.	Set	Jts.	Feet	In.	Jts.	Feet	In.	KIND	Cona n	Sacks Used	Method B	imployed
8-5/8		. 7	SJ	451*				12	446	0	Armeo SW	A	300	Hallib.	
5-1/2				t			•	150	4826	o	J55 R2 S	5 A	300	Hallib.	4858*10"
				1		ff 3	be	low	grou	hđ:	evel, an	d 53'	1 a	bove groun	nd
•	vel			- 0 -	,										
51m c	asi	ng	pe	rfora	tion	s ope	n:					<u> </u>			
~ 50	1	-	PB	, ,		*-49		th	72 ho	les	and 427	8*-4	281° w	ith 30 hol	Les
E	elo	W	PB	TD:	None	• •		,		ļ		<u> </u>	· .		er bestere tilha et state som til strette som t
				•	<u> </u>			<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>	

Perforated at

Line

Size and Kind Packer Set at Size and Kind.

Liner Set at

SHOT OR ACID TREATMENT RECORD

	FIRST		SECON	4D	THIRD	-, '	FOURTH	٠,
Date	8/2/59)	8/5/59		8/5/59			,
Acid Used Size Shot	1500	Gals.	200	Gals.	350	Gals.	4	Gals. Qts.
Shot Between	4319Ft. and	4328 Ft.	4278 Ft. and	4281 Ft.	4278Ft. and428	1 Ft.	Ft. and	Ft.
Size of Shell	1.5%	٠ ١٠	15%	<u> </u>	15%	•	For remain	ing
Put in by (Co.)	Hallibu	rton	Hall1bur	ton	Halliburto	a	treatments	
Length anchor			r	,			see remark	S
Distance below Cas'g		٠.,						
Damage to Casing			٠.		:			

SIGNIFICANT GEOLOGICAL FORMATIONS

	Top	Bottom		GAS	0	OIL	REMARKS
NAME	100	Doccom	From	To	From	То	KEMIAKAS
Council Grove	3438*						
Admire	3716	• .				47,	i
Topeka Lime	38921			· ·			a construction of the second s
Lansing Lime	4086		*		4241 *	1249*	Prod. thru csg. perf.
		•			4278	4281	R
Conglomerate	4784						:
Arbuckle Lime	48221						
Reagan Sand	4882		*				
Pro-Combasion	1.01.69	•	CIF	ANÍNG (OUT REC	OBDĠ	

rre-Cambrian 4740 DATE COMMENCED DATE COMPLETED PROD. BEFORE

PROD. AFTER See Reverse for other details.

Lime	4130	4143	
Lime, cream, dense	4143	4149	Fossiliferous porosity, fair spotted dark stain, show of
	1, , a		free oil.
Lime	4149	4160	Ran Halliburton drill stem test No. 4, packer set at
The second of th			4144* used 16* anchor, open 2 hours, weak blow throughout
The second section of the second seco	ay con	<i>b.</i>	test, recovered 350* muddy
	•	· (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	salt water, no oil, IBHP- 1260# in 30 mins., IFP-70#, FFP-180#, FBHP-895# in 30 mins.
Lime	4160	4165	
Lime, dense, finely			P. Commission of the Commissio
crystalline	4165	4168	Poor porosity, poor spotted dark stain
Lime Lime, dense, finely	4168	4192	
crystalline	4192	4195	
Lime	4195	4241	
Lime, light gray, finely crystalline, partly	- felia		$m{t}_{i}$, $m{t}_{i}$
fossiliferous	4241	4245	Poor to fair pinpoint and
		ă.	vuggy porosity, fair spotted dark stain, fair show of free
Lîme	4245	4252	oils
Lime, light gray, finely		a ment	
crystalline, partly fossiliferous	4252	4255	A second of the
Lime	4255	4260	Ran Halliburton drill stem
· · · · · · · · · · · · · · · · · · ·		**** 2 ****	test No. 5, packer set at 4241, used 19 anchor, open
		A Section 1	2 hours weak blow throughout
and the state of t	edelde. • 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		recovered 215° of rotary mud
	*. a		with few specks of oil, IBHP-100# in 30 mins., IFP-
The state of the s			15#, FFP-25#, no final BHP,
Lime	4260	4279	tool plugged.
Lime, fine crystalline	4279	4287	Poor vuggy porosity with
	Aris .		spotted dark stain, free oil in samples
Lime	4287	4300	Ran Halliburton drill stem
		فره کرونه در فراه فرهنگاه	test No. 6, packer set at 4278, used 22 anchor, open
No. of the second secon		1 7 1	3 hours, fair blow throughout.
	again to the	a fire	recovered 125* of free oil
	By to San		(30.6 gravity), 60° of slightly oil cut mud. 778° of muddy
			oil cut mud, 778 of muddy salt water, 120 salt water, IBHP-1350# in 30 mins.
	***	علوية والمراجع	IFP-35#, FFP-365#, FBHP-1205#
Lime	4300	4304	in 30 mins.
Lime Lime, cream, finely	4500	4704	
crystalline	4304	4315	Fossiliferous to good porosity, light saturation.
Lime Lime, cream, partly	4315	4322	
fossiliferous	4322	4336	Poor porosity, trace of dark
Lime	4336	4342	stain
Lime cream, partly fossiliferous	4342	4347	
Lime	4347	4352	
Lime, gray, sand and fossiliferous	4352	4356	BASE KANSAS CITY LIME 4351
Lime	4356	4360	· Ran Halliburton drill stem
	A CONTRACTOR OF THE PARTY OF TH		test No. 7, packer set at
	· 中华教 · · · · · · · · · · · · · · · · · · ·		4316*, used 44* anchor, open 2 hours, fair blow throughout.
		pro designation of the second	recovered 740° of muddy salt
The state of the s			water, no oil, IBHP-1330# in 30 minutes, IFP-55#, FFP-400#,
	EMPRE A		FBHP-1175# in 30 minutes.
	4360	4685	TOP CHEROKEE LIME 4518
And the second of the second o	ANT ANTON		TOP CHEROKEE SAND 4604

200#

2:25 am

Swabbed through 5½" casing 3 hours, 104 barrels of water used in treating and 5 barrels of acid water, and swabbed to bottom. On August 5, swabbed through 5½" casing 8 hours, 16½ barrels of oil and 15 barrels of water. Reacidized through 5½" casing with 350 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 3 - Acidized between 4278 and 4281 Treatment put in 8/5/59 by Halliburton, using 350 gallons of acid and 104 barrels of water.

TIME CP TP REMARKS

11:57 pm 100# Acid on formation

1:00 am 150#

2:00 am 200#

Swabbed through 5½" casing 2 hours, 104 barrels of water used to flush and 8 barrels of acid water. Swabbed off bottom 11 hours, 32 barrels of oil and 27 barrels of water (last 2 hrs., 5½ barrels fluid per hour, 55% oil). On August 6, swabbed off bottom 5 hours, 18 barrels of oil and 10 barrels of water.

Treatment completed

Set bridging plug at 4260° and swabbed the hole dry.

Casing Perforation No. 4 - Lansing Lime - 4241*-4249* 4241*-4249* 32 A-2 holes

Slight show of oily mud. Treated through 51 casing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 4 - Acidized - 4241*-4249*

Treatment put in 8/6/59 by Halliburton, using 250 gallons of acid and 103 barrels of water.

THE CP TP REMARKS

5:47 pm 100# Acid on formation

6:47 pm Vac.

6:52 pm Vac. Treatment completed

Swabbed through $5\frac{1}{2}$ " casing 3 hours, 103 barrels of water used to flush. Then swabbed 7 hours off bottom, $17\frac{1}{2}$ barrels of oil and $14\frac{1}{2}$ barrels of water (partly acid water). On August 7, swabbed through $5\frac{1}{2}$ " casing 4 hours, 13 barrels of oil and $7\frac{1}{2}$ barrels of water.

Drilled and drove bridging plug from 4260° to 4294°, then swabbed through 5½° casing 4 hours, 20 barrels of oil and 10 barrels of water, (last 1 hour, 55-60% water).

Set Lane-Wells bridging plug at 4230 Swabbed and bailed hole dry.

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Casing Perforation No. 5 - Lansing Lime - 4104*-4108*
4104*-4108* 16 A-2 holes
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Bailed and tested 2 hours, 5 gallons of drilling water with show of oil per hour. Treated through 5½ casing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 5 - Acidized - 4104*-4108*

Treatment put in 8/7/59 by Halliburton, using 250 gallons of acid and 102½ barrels of water.

THE CP TP REMARKS

9:00 pm

9:18 pm 100#

10:00 pm 100#

10:45 pm 250#

11:15 pm 300#

11:30 pm 350#

Treatment completed

Swabbed through 5½" casing 2 hours, 103 barrels of water used in treating. On August 8, swabbed through 5½" casing 24 hours, 11 gallons of oil and 33 gallons of water per hour (23 gravity oil corrected).

On August 9, ran Halliburton Hydrafrac through 51 casing as follows:

```
TREATMENT NO. 6 - Hydrafrac - 4104*-4108*

Used 500 gallons of gelled kerosene
500# of sand
25 barrels of regular crude oil ahead of frac
70 barrels of regular crude to flush
58 barrels of water
Maximum CP-1100#, minimum CP-700#

Time 10 minutes
Pressure dropped to 550# in 5 mins., slight vacuum at end of
```

Sheet No. 4

On August 21, pulled rods and 2" tubing. Drilled cement plug from 4330° to 4370°. Drilled cement plug and cleaned out to original total depth, 4953°. Swabbed and bailed the hole clean. Ran 2" tubing and set Halliburton HM packer at 4300°. Treated open hole from 4827° to 4953° with 2000 gallons of Halliburton 30% acid as follows:

TREATMENT NO. 10 - Acidized - 4827*-4953*

Treatment put in 8/23/59 by Halliburton, using 2000 gallons of acid and 35 barrels of water.

TIME CP TP REMARKS

7:20 pm 150# Acid on formation

7:32 pm 250#

7:38 pm 1150# Treatment completed

Swabbed through 2" tubing 4 hours, 147 barrels of water. Tested input through 2" tubing and well took 54 barrels of water first 30 minutes; 2nd 30 minutes, 43 barrels of water; 3rd 30 minutes, 36 barrels of water-total 133 barrels water in 12 hours.

Pulled 2" tubing and packer. Set Lane-Wells bridging plug at 4300". Ran 2" tubing and rods and POB 3 hours, 72 barrels of oil and 41 barrels of water. Shut down to install pumping equipment.

Dually completed for future salt water disposal purposes in open hole from 4827 to 4953 .

PLUGGED BACK TOTAL DEPTH 4300*

Note: Waiting for State Corporation Commission approval before final salt water disposal completion.

	SLOPE	TEST	DATA	, · · ·	,
DEPTH	Al			LECTIO	N
<u>500</u> ₹		1/:	2 Degi	·ee	47 , 1 , 144
1000		1/1			in the second
1500*	4	1/3	5 #		:
2000*	•	1//	+ 48	1	
3000*		1/:	2 *	Page 1	٠, ج
4000	**************************************	1/:	2 🕷	Section 1	
£160*	Section 1	1/	2 #	9	

S. B. March Chi.

SKELLY OIL COMPANY

CHANGE IN WELL RECORD

Give complete description of all cleaning out, deepening, plugging back and fishing jobs, changes in casing, material lost in hole, etc, not

EASE NAME	PF:	inces i	HOLTHER	Lse. I	Vo.	66172		NO	Rawl	DISTR ins	ICT	Platte	AFE N	o. 6448	
LOCK							STAT	E	Kans	38 5					
		TYI	PE OF	WOF	K_	Re	complete	Well	No.	1 :		· · · · · · · · · · · · · · · · · · ·			
ate commenced		Se	ptember	20.			60 Date	complete	ed	Septe	mber	28,			. 19 _
eepened from					to					Total De	pth	4953			
eepened from lugged back fr	om	130	01		to	·	1293			P.B.T.D.		4293			
laanad out from	~			•	ŧο	•				•				•	
roduction before	9	0		bbis.	oli		1	t	bis. wa	ter	-	-			
roduction after_		15_		bbis.	oil _		5.5	t	bls. wa	ter	•	-		CU.	ft.
ools owned by; ost of Job \$	<u> </u>	Laude	Wentwor	th			Kind	used;	cab.	le too	73	No. d	lays rig	time; 1-4	
ost of Job $\$$	5,60	7.23	•		F	levised Es	stimated Pa	yout (Mos	ئــــــ (٠٤	5-64					
							TMENT	RECO							
DATE		TYPE 1	REATMENT			RVAL TR				T OF T			200		
9- 22-60		Aci		<u> </u>		8-128						urton .			
9- 27-60			<u>d</u>			81-128						urton			
9- 27-60	 -	Aci	<u>.d</u>		411	<u>6°-414</u>	10.	250	gall	ons na	шт	ourton :	TOP		
			· · ·				,				:				
						·····					•		·		
					CILA	NGES	IN CASI		COBI	-					
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			WHERE	SET				NG RE	1			······································			
STRINGS	SIZE		WHERE (Depth)		CI	EMENTING	G RECORD				R	EMARKS			
	SIZE		WHERE (Depth		CI	EMENTING					P.I	EMARKS			
STRINGS Production Liner	SIZE				CI	EMENTING	G RECORD	geg	iner:		P (EMARKS			
Production	SIZE				CI	EMENTING	G RECORD	geg			,	EMARKS			
Production Liner			(Depth))	Sack	S Used Top	G RECORD Cem't. Bh'd. C	geg			,		LLED O	UT	
Production Liner	SIZE	THDS.)	CI	S Used Top	G RECORD Cem't. Bh'd. C	Top i			Jfs.			TUC	
Production Liner			(Depth))	Sack	S Used Top	G RECORD Cemit. Bhid. C	Top i		.io.		PU			
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Production Liner			(Depth))	Sack	S Used Top	G RECORD Cemit. Bhid. C	Top i		Jo.		PU			1
Production Liner			(Depth))	Sack	S Used Top	G RECORD Cemit. Bhid. C	Top i		lo.		PU			
Production Liner SIZE	VT.	THDS.	(Depth))	Sack	S Used Top	G RECORD Cemit. Bhid. C	Top i		In.		PU			
Production Liner SIZE	VT.	THDS.	(Depth))	Sack	S Used Top	G RECORD Cemit. Bhid. C	TOP I	iner;	Jo.	Jîs.	PU		Feet	
Production Liner SIZE PRODUCING	VT.	THDS.	(Depth)	Sack	S Used Top	G RECORD Cemit. Bhid. C	TOP I	iner;		Jîs.	PU	in.	Feet	514

September 20, 1960 - Moved in and rigged up Chaude Wentworth Drilling Company's cable tools. Pulled rods and tubing. Ran Lane-Wells wire line and checked plug back total depth at 4300%

PERFORATION JOB NO. 8 - 4146 - 4148:

Perforated 52" OD casing with 4 Lane-Wells Series "E" bullets per foot as follows:

4146 - 4148 - (2) - 8 shots (Lansing "D" Zone)

Ran 2" tubing with Halliburton straddle packers and set packers at 4267 -4292", straddling casing perforations 4278 -4281 in Lansing "J" Zone. Swabbed 2" EUE tubing 1 hour for .23 barrels of oil and .52 barrels of salt water.

TREATMENT NO. 11 - (ACID) - 4278 - 4281:

Treated formation down 2" EUE tubing with 500 gallons Halliburton 15% non-emulsifying acid. Maximum pump pressure 350#. Casing was on vacuum at end of job. Injection rate 31 gallons pe minute.

After recovering load oil, swabbed 2" EUE tubing 2.5 hours for 27.85 barrels oil and 4.92 barrels salt water.

Picked up 2" tubing and reset straddle packers at 4237"-4262" . 4241 -4249 in Lansing "H" Zone. Swabbed 2" tubing 1.5 hours for 49 barrels of salt water and no oil. Swabbing 1000' off bottom. Pulled 2" tubing with Halliburton H.M. straddle packers.

Ran 2" tubing with Lane-Wells BOC-8A production packer and set packer at 4276". Tubing perforations set at 4287 -4290 and seating nipple set at 4286. Ran 2" x 1-3/4" x 7 x 11 tubing type pump and set at 42861.

Ran 147 - 3/4" x 25' Jones #7 sucker rods with 1-3/4" x 48" chrome plunger. Well did not pump up. Pulled rods and tubing and recovered bottom part of tubing swab. Re-ran the same tubing, packer, rods, and pump, but well still did not pump up.

Pulled rods, replaced plunger and standing valve, reran rods and well pumped up. Liners evidently worn reason well did not pump up. Pumped 24 hours through 2" tubing, 14-48" SPM,

for 3 barrels oil and 160 barrels salt water. Pumped 3 hours through 2" tubing, 14-48" SPM, for 27 barrels salt water with a trace of oil.

Picked up 2" tubing and reset production packer at 4272%

Pumped 3 hours through 2" tubing, 18-48" SPM, for 36 barrels salt water with a trace of oil.

Loaded annulus with water and swabbed 2" tubing 3 hours for 70 barrels salt water with a trace of oil. Annulus remained full of fluid.

Pulled 2" tubing and checked PBTD with Lane-Wells wire line at 4301. Ran 2" tubing with Halliburton H.M. straddle packers and set packers at 4267. 4292, straddling casing perforations 4278. 4281 in Lansing "J" Zone.

Swabbed 2" tubing 10 hours as follows:

1st hour - 18.64 barrels fluid, 99% salt water.
2nd hour - 9.28 barrels fluid, 99% salt water.
3rd hour - 7.57 barrels fluid, 99% salt water.
4.64 barrels fluid, 98% salt water.
5th hour - 4.64 barrels fluid, 98% salt water.
6th hour - 5.60 barrels fluid, 90% salt water.
7th hour - 4.76 barrels fluid, 85% salt water.
8th hour - 3.10 barrels fluid, 85% salt water.
9th hour - 1.32 barrels fluid, 85% salt water.
10th hour - 1.00 barrels fluid, 75% salt water.

Swabbed 2" tubing 5 hours for 1.25 barrels oil and 2.5 barrels salt water.

TREATMENT NO. 12 - (ACID) - 4278'-4281':

Treated formation down 2" tubing with 750 gallons 15% non-emulsifying acid. Maximum pump pressure 500%. Tubing was on vacuum at end of job. Injection rate 4.5 barrels per minute.

After recovering lead oil, swabbed 2" tubing 4 hours for 1 berrel oil and 10.5 barrels salt water. Picked up 2" tubing and reset straddle packers at 4135*-4160*, straddling casing perforations 4146*-4148* in Lansing "D" Zone.

Swabbed 2" tubing 2 hours for 7 gallons oil and 15 gallons salt water.

TREATMENT NO. 13 - (ACID) - 4146 -4148:

Treated formation down 2" tubing with 250 gallons Halliburton 15% non-emulsifying acid.

Maximum pump pressure 350%. Tubing was on vacuum at end of job. Injection rate 1 barrel
per minute.

Swabbed 2" tubing 3 hours for 4.5 gallons oil and 1 barrel salt water. Still lack 14 barrels recovering all load water back. Swabbed 2" tubing 3 hours for 1 barrel salt water with trace of oil. Lacked 13 barrels recovering all load water.

Pulled 2" tubing with Halliburton H.M. straddle packers.

Ran Lane-Wells cast iron bridge plug on wire line and set at 4299°. Dumped 6° cement plug on top of bridge plug making PHTD 4293°.

PLUGGED BACK TOTAL DEPTH

4293

Asserted the second

Ran 147 joints 2"- tubing with Lane-Wells BOC-84 production packer and set tubing bull plugged on bottom at 4267". Tubing perforations set at 4267"-4270° and seating nipple set at 4266°.

Ran 169 - 3/4" x 25° Jones #7 sucker rods with 2" x 1-3/4" x 16° 0°Bannon insert pump with mechanical holddown and set pump at 4266°.

Pumped 6 hours through 2" tubing, 18-48" SPM, for 5 barrels cil and 32 barrels salt water.

Pumped 24 hours, 14-48" SPM, for 15 barrels of oil and 52 barrels of salt water on September 28, 1960.

June 27, 1962 - Dumped 500 gallons of 15% regular acid down 2" tubing. Packer set @ 4267.

Flushed with 75 barrels of oil. Shut well down for 12 hours. After recovering load oil POB 24 hours for 1.15 barrels oil and 7 barrels of water. No gain in production.

15-153-00034-00-01

RECORD OF FORMATIONS

FORMATION	TOP	воттом	REMARKS
			Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Orange - AA		*	
Surface soil, sand, and shale	o la	190	25 138, 138, 138, 138, 138, 138, 138, 138,
Shale and sand	190	460	Set and cemented 8-5/8"OD,
			22.7#, Armco, S.W., S.J. steel casing (A cond.) at
		8	2 451 with 300 sacks of
	The state of the s		Pozmix cement and 2% calcium chloride. Cement circulated.
			Finished cementing at 7:00
Shale	460	925	a.m. 6/19/59.
Shale and shells Shale and sand	925	1575	
Shale and sand	1575 1955	1955 2075	
Shale and lime Lime and shale	2075	2250	Lost circulation at 2250
WING SHOW SHOTE	2250	2440	Continued loosing circu- lation. Ran drill pipe
	and the second of the second o	Salar Salar	open end to 1476 and spot-
		ja vilonini. Ngjarini jama	ted 75 sacks Halliburton HA-5 cement. Raised drill
			pipe 300° and shut down 2 hrs., then found top of
			cement at 1645. Circulat-
			ed 1 hr. with clear water, circulation OK. Drilled
			cement from 1645° to 1830°
•			and circulated to bottom 1 hour.
Shale	2440	2605	A Lost circulation. Ran
	al .		drill pipe open end to 1476
	• • • •		spotted 75 sacks of Halli- burton HA-5 cement with 4
	en e		sacks of Gilsonite. Finish-
			ed cementing at 2:00 pm 6/24/59. Found top of
			cement at 1576. Drilled
			cement plug to 2605° and regained circulation.
Shale and shells	2605	2715	
Lime Lime and shale	2715 3070	3070 3435	TOP STONE CORRAL 3017* BASE STONE CORRAL 3055*
Lime	3435	3638	TOP COUNCIL GROVE 3438*
Lime and shale Lime, fossiliferous	3638 3885	3885 3888	TOP ADMIRE 3716* Fair vuggy porosity, fair
	44		black tarry stain
Lime	3888	3920	Ran Halliburton drill stem
	A STATE OF THE STA		test No. 1, packer set at
			3878, used 42 anchor, open 1 hour, no blow (line plugged),
	and the state of t		recovered 665° of muddy salt
	and the second of the second o	*	water, no oil, IBHP-1240# in 30 minutes, IFP-55#, FFP-
	and the first of the second of	***	325#, FBHP-1150# in 30 mins.
Lime and shale Lime, white, finely	3920	3991	
crystalline	3991	3994	Fair inter-crystalline
		•	porosity with fair spotted black stain, mostly dead,
			small show of free oil in
Lime	3994	4000	samples. Ran Halliburton drill stem
		S SECTION STATE OF THE STATE OF	test No. 2, packer set at
No. 100 Committee Co	*************************************	, 4	3983*, used 17* anchor, open
•		Sh. 1 /	1 hr. 20 mins. recovered 2
	*		65° muddy salt water, no oil, IBHP-1260# in 30 mins., IFP-
•	~ 1	•	20#, FFP-55#, FBHP-1095# in
Lime	1.000	ATO).	30 minutes.
•	4000	4104	TOP HEEDNER SHALE 4032 TOP LEAVENWORTH LIME 4036
And the second s	B. Mark I. South Charlest State Control and Control an	en Malakka Malakka sayan karan sa kasan ka sasan sa sakasan	TOP LANSING LIME 4086
Sand, light gray, f	ine 4104	4109	Good porosity, black dead
		,	oil stain, no free oil.
Sand and lime	4109	4130	Ran Halliburton drill stem
,,	***	5	test No. 3, packer set at 4093*, used 37* anchor, open
		, - Tar	l hour, weak blow, quit in
v ^y er			5 minutes, recovered 20 of rotary mud, no oil, IBHP-
• ,			1280# in 30 mins IFP-0#.
e e e e e e e e e e e e e e e e e e e		•	FFP-0#, FBHP-1000# in 30 min.

4685 4770 Shale and sand 4860 TOP CONGLOMERATE 4784. 4770 Lime and chert TOP ARBUCKLE LINE 4822 4873 4925 4946 4860 Lime TOP REAGAN SAND 4882*
TOP PRE-CAMBRIAN 4946* 4873 Lime, chert and sand 4925 Sand and shale 4946 4953 No shows Pink, fractured quartzite Ran Schlumberger Survey

TOTAL DEPTH 4953*

Total Depth Reached: 7/10/59

Set and cemented 5½ "OD, 14#, 8R thd., R-2, J-55, S.S. casing (A cond.) at 4827, mixed and gelled 130 barrels of oil with 130 sacks of Howco Gel pumped ahead of 300 sacks of S.O.W. cement. Oil did not circulate, lost circulation, finished with 1000# pump pressure. Finished 9:30 pm 7/11/59. Halliburton Temperature Survey showed top of cement behind 5½ casing at 3500.

Rigged up cable tools and swabbed and bailed the hole dry to top of cement at 4727* on July 31, 52" casing tested dry. Ran Lane-Wells Gamma Ray Collar Log from 4727* to 3700*. Set Baker bridging plug at 4370*.

Casing Perforation No. 1 - Lansing Lime - 4338*-4341* 4338*-4341* 12 A-2 holes

Bailed and tested 5 hours, 53 gallons of water per hour with rainbow show of oil. On August 1, bailed 8 hours, 50 gallons of water per hour, no oil.

Set Lane-Wells bridging plug at 4330*, hole tested dry.

Casing Perforation No. 2 - Lansing Lime - 4319*-22* and 4322*-28*

4319*-22* - 12 A-2 holes - Swabbed off bottom 10 hrs., 39 barrels

water, no oil. Swabbed thru 52" casing
6 hrs., 32 BWPH, no oil

4322*-28* - 24 A-2 holes - Swabbed thru 52* casing 3 hours, no fluid increase. Treated through 52* casing with 1500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 1 - Acidized - 4319*-4328*

Treatment put in 8/2/59 by Halliburton, using 1500 gallons of acid and 111 barrels of water.

acid and 111 barrels of water.

TIME CP TP REMARKS

4:00 pm Start acid

4:18 pm 500#

4:24 pm 350#

4:42 pm 700# Treatment completed

Swabbed through $5\frac{1}{2}$ " casing 3 hours, Ill barrels of water used in treating and 36 barrels of acid water. Swabbed off bottom 4 hours, 79 barrels of water; then tested for input, filled hole through $5\frac{1}{2}$ " casing with 108 barrels of water in $1\frac{1}{2}$ hours, well took 46.40 barrels of water the first hour; 2nd hour, 26.63 barrels of water; 3rd hour, 10.44 barrels of water.

Drove bridging plug from 4330* to 4369*. Ran 2" tubing and set Halliburton DM retainer at 4295* and cemented off perforations from 4319* to 4328* and 4338* to 4341* with 100 sacks of special oil well cement, 48 sacks below retainer at 2500#, reversed out 52 sacks of cement. Pulled 2" tubing and swabbed the hole dry to 4295*.

Casing Perforation No. 3 - Lansing Lime - 4278*-4281* 4278*-4281* 12 A-2 holes

Swabbed through $5\frac{1}{2}$ " casing 8 hours, 13 gallons of oil and 65 gallons of salt water per hour. Treated through $5\frac{1}{2}$ " casing with 200 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 2 - Acidized - 4278*-4281*

Treatment put in 8/5/59 by Halliburton, using 200 gallons of acid and 104 barrels of water.

TIME CP TP REMARKS

3:46 pm 100# Acid on formation
4:33 pm 100# Treatment completed

Swabbed through 52" casing 6 hours, 95 barrels of oil used to flush and 58 barrels of treating water, swabbed to bottom. Swabbed 6 hours off bottom, 2 barrels of oil and 29 barrels of water (last 3 hours, 6½ barrels fluid per hour, 92% water, oil 23 gravity corrected).

On August 10, ran 2" tubing and set DM retainer at 4075. Cemented off perforations from 4104 to 4108 with 100 sacks of common cement, 85 sacks below retainer at 2500#-TP. Reversed out 15 sacks of cement. Finished cementing 7:00 pm 8/10/59. Pulled 2" tubing and swabbed the hole dry to top of retainer at 4075.

On August 12, drilled DM retainer at 4075, drilled cement from 4145 to 4230, drilled bridging plug at 4230, and cement to 4285 (squeeze job went below bridging plug), and cleaned out to

Casing Perforation No. 6 - Lansing Lime - 4278*-4281*
4278*-4281* 18 A-2 holes 12 Kone shots

No shows. Ran 2" tubing and set HM packer at 4260". Filled annulus with 81 barrels of oil, then treated through 2"tubing with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 7 - Acidized - 4278*-4281* Treatment put in 8/15/59 by Halliburton, using 250 gallons of

acid	and I	oarrels	OI OIL	
TIME		<u>CP</u>	TP	REMARKS_
1:00	am .	,		Start to load hole
1:17	am	200#	*	Hole loaded
1:23	am			Start acid
1:30		200#	200#	Acid on formation
2:30	am	250#	350#	
3:46		250#	450#	Treatment completed

Swabbed through 2" tubing 24 hours, 30 barrels of oil and 33 barrels of water (last 4 hours, 2.9 barrels fluid per hour, 53% water). Pulled 2" tubing and HM packer.

Casing Perforation No. 7 - 4241*-4249* - Lansing Lime 4241*-4249* 48 Type "E" holes 24 Kone shots

Ran 2" tubing and set Halliburton straddle packers with bottom packer at 4260' and top packer at 4220'. Treated from 4241' to 4249' with 250 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 8 - Acidized - 4241*-4249*

Treatment put in 8/17/59 by Halliburton, using 250 gallons of acid and 17 barrels of oil. REMARKS audit. * * 11:00 pm Acid on formation 11:30 pm 1:00 am 200#

400# 50O# 1:30 am **750#** 2:20 am

2:47 am 700# Treatment completed

Swabbed through 2" tubing 2 hours, 17 barrels of oil used in treating and 2 barrels of acid water. Then swabbed 4 hours, $3\frac{1}{2}$ gallons of oil and I gallon of acid water per hour. Reacidized with 500 gallons of Halliburton 15% acid through 2" tubing as follows:

TREATMENT NO. 9 - Acidized - 4241*-4249* Treatment put in 8/17/59 by Halliburton, using 500 gallons of acid and 18 barrels of oil.

TIME CP TP REMARKS 250# 5:00 pm 250# Acid on formation 250於 5:10 pm うしし併 250# 5:20 pm 600# **250**# 5:27 pm 950# Treatment completed

Swabbed through 2" tubing 2 hours, 18 barrels of oil used to flush and 12 barrels of acid water. Swabbed off bottom 7 hours, 42 barrels of oil and 9 barrels of acid water.

Pulled 2" tubing and packers and swabbed out 95 barrels of load oil. Drilled DM retainer at 4295. Drilled cement plug to 4330. Swabbed and bailed the hole clean. Ran 2" tubing and rods and POB 6 hours, 24 barrels of oil and 36 barrels of water (last 1 hour 5.8 barrels of fluid per hour, 50% water).

On August 20, POB 24 hours on State Corporation Commission potential, 35 barrels of oil and 47 barrels of water to establish 24 hour S.C.C. potential of 35 barrels. This potential allows 25 barrels per day.