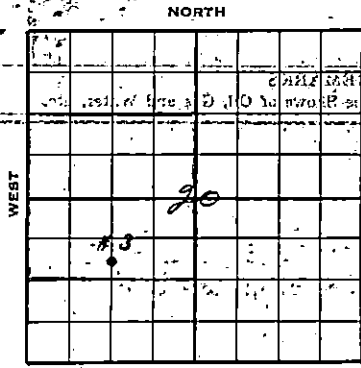


SKELLY OIL COMPANY



MOTTOB Well Record MOTTABROZ

Lease Name and No. **A. J. Conley** Well No. **3** Elev. **1688' DF**
 Lease Description: **W/2 of SW/4 & S/2 of NW/4, Section 20-27S-10W**
Kingman County, Kansas

Location made **Sept. 12, 1939** by **Conrad Randolph**
 feet from North line **350** feet from East line **1320**
 feet from South line **1320** feet from West line **350**
 of **Sec. 20**

Rig com'd **Oct. 1, 1939** Rig comp'd **Oct. 3, 1939** Drlg. com'd **Oct. 8, 1939** Drlg. comp'd **Nov. 3, 1939**
Rig furnished by drilling contractor on turnkey basis

Rig Contractor **Hodine Drilling Company, Cork Building, Great Bend, Kansas**
 Drilling Contractor **Hodine Drilling Company, Cork Building, Great Bend, Kansas**

Rotary Drilling from **Top** to **3390'** Cable Tool Drilling from **3390'** to **3430'**

Commenced Producing **November 4, 1939** Initial Prod. before shot or acid **Bailed thru csg. 7 hrs. 4 bbls. oil**
 Initial Prod. after shot or acid **Flowed 8 hrs., 66.84 oil, no str.**
Established 24 hr. potential of 301 bbls.

Dry Gas Well Press. Volume **35,000** Cu. ft.

Casing Head Gas Pressure Volume **35,000** Cu. ft.

Braden Head (15" x 8-5/8" OD) Gas Pressure Volume **35,000** Cu. ft.

Braden Head () Gas Pressure Volume **35,000** Cu. ft.

PRODUCING FORMATION: **Lansing Lime** Top **3399'** Bottom **3430'** TOTAL DEPTH **3430'**

CASING RECORD

Size	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING	
				Jts.	Feet	In.	Jts.	Feet	In.			Sacks Used	Method Employed
15" OD	50#	8	370				19	364	1	Lapweld	"B"	180	Halliburton
8-5/8" OD	32#	8	3380				116	3411	0	Seamless	"B"	350	Halliburton
(15" csg. set 10' in cellar and 8-5/8" csg. cased to derrick floor)													
(Used one, 8-5/8" OD Baker Combination Guide and Float Shoe)													

Liner Set at _____ Length _____ Perforated at _____

Packet Set at _____ Size and Kind _____

Packet Set at _____ Size and Kind _____

SHOT OR ACID TREATMENT RECORD

	FIRST	SECOND	THIRD	FOURTH
Date	Nov. 4, 1939			
Acid Used	3000 Gals.			
Size Shot				
Shot Between	3399 Ft. and 3430 Ft.			
Size of Shell				
Put in by (Co.)	Morgan Acid, Inc.			
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder	None			

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Lansing Lime	3375				3399'	3430'	Main body pay formation

CLEANING OUT RECORDS

	DATE COMMENCED	DATE COMPLETED	PROD. BEFORE	PROD. AFTER	REMARKS
1st					See Reverse for other details.
2nd					" " " " "
3rd					" " " " "
4th					" " " " "

PLUGGING BACK AND DEEPENING RECORDS

	Date Commenced	Date Completed	No. Feet Plugged Back or Deepened	Prod. Before	Prod. After	REMARKS
1st						See Reverse for other details.
2nd						" " " " "
3rd						" " " " "
4th						" " " " "

(See Reverse for Record of Formations)

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Sand and clay	0	100	
Red beds	100	140	
Red beds and shells	140	270	
Shale and shells	270	330	Set and cemented 13" OD, 50% Lapweld steel casing at 370' with 160 sacks of cement.
Red bed	330	520	
Red bed and shells	520	600	
Shale and shells	600	850	
Salt	850	1100	
Lime and shale	1100	1430	
Lime	1430	1480	
Anhydrite and lime	1480	1520	
Sandy lime	1520	1545	
Shale	1545	1560	
Sandy lime	1560	1600	
Lime	1600	1710	
Cherty lime	1710	1780	
Lime	1780	1820	
Broken lime	1820	1850	
Lime	1850	1860	
Shale	1860	1875	
Shale and lime	1875	1950	
Lime	1950	2110	
Broken lime	2110	2340	
Lime	2340	2425	
Shale	2425	2435	
Sandy lime	2435	2525	
Lime	2525	2575	
Lime and shale	2575	2610	
Lime	2610	2650	
Broken lime	2650	2750	
Lime	2750	2840	
Broken lime	2840	2880	
Shale	2880	2900	
Sandy lime	2900	2975	
Broken lime	2975	3020	
Lime	3020	3040	
Shale and lime	3040	3070	
Lime	3070	3125	
Lime and shale	3125	3155	
Lime	3155	3200	
Cherty lime	3200	3225	
Cherty lime and black shale	3225	3250	
Black shale and lime	3250	3320	
Black shale	3320	3375	
Buff, coarsely crystalline lime	3375	3381	Drld. 11" hole to 3380' Top Landing Line at 3375' Set and cemented 8-5/8" OD, 32% casing at 3380' w/ 350 sacks of cement. Finished cementing at 8:00 PM, 10/28/39, and while shut down waiting on cement to set, standardized rig and rigged up cable tools. Finished rigging up and bailed the hole down and drilled cement to 3370' on Oct. 31st. 8-5/8" casing tested OK, then drilled balance of cement plug and cleaned out to bottom. Correction: 3381' SLM RT equals 3360' SLM DF. No saturation or porosity.
Steel Line Correction	3381	3380	
Grey lime	3380	3392	
Dark grey lime	3392	3399	
Dark grey lime w/ little brown lime	3399	3404	Oil stained w/ little porosity
Same	3404	3405	Smell of gas - Tested 1 hour, showed scum of oil
Grey crystalline lime w/ trace of shale	3405	3411	Medium hard
Grey cherty lime w/ 40% brown oolitic lime	3411	3417	Porous w/ medium saturation, soft from 3414' to 3417', showing little free oil. Gas gauged 35,000 cubic feet.
Grey lime w/ little brown lime	3417	3422	Slight saturation and porosity - Now gas increase. Soft from 3417' to 3422', showing little free oil.
Grey lime w/ 25% shale	3422	3425	No porosity or saturation, no gas increase. Bailed and tested 7 hours, 4 barrels of oil and no water in 7 hours
Dark grey lime w/ little grey shale	3425	3428	Little porosity and saturation - soft from 3427' to 3428', no increases Ran and set 2" regular steel tubing at 3425', open end, and treated well with acid as follows on Sheet No. 2:
<u>TOTAL DEPTH - 3430'</u>			

ACID TREATMENT NO. 1 - 3399' to 3430' - Treatment put in by Morgan Acid, Inc., using 5000 gallons of Morgan acid and 35 barrels of oil to flush tubing, on Nov. 4, 1939.

TIME	CP	TP	REMARKS:
3:45 PM			Started acid into tubing
3:49 "	200 $\frac{1}{2}$	0 $\frac{1}{2}$	640 gallons of acid in hole
3:53 "	50 $\frac{1}{2}$	0 $\frac{1}{2}$	1000 gallons of acid in hole
4:00 "	50 $\frac{1}{2}$	0 $\frac{1}{2}$	2000 gallons of acid in hole
4:06 "	30 $\frac{1}{2}$	0 $\frac{1}{2}$	3000 gallons of acid in hole
4:12 "	0 $\frac{1}{2}$	0 $\frac{1}{2}$	4000 gallons of acid in hole
4:18 "	0 $\frac{1}{2}$	0 $\frac{1}{2}$	5000 gallons of acid in hole then started oil in to flush hole.
4:21 "	0 $\frac{1}{2}$	0 $\frac{1}{2}$	Flushed tubing with 35 barrels of oil to complete treatment.

After acid treatment, left well shut in two hours for acid to act, and on November 4th, flowed well through 8" tubing, 8 hours on potential test, and well flowed 66.84 barrels of oil and no water to establish a 24 hour State Corporation Commission potential of 201 barrels. This potential allowed 24 barrels of oil per day to be produced during the month of November, 1939.

WELL TEST DATA

DEPTH	ANGLE (Degs.)	HORIZ.	VERT.
250'	0		
500'	0		
750'	0		
1000'	0		
1250'	1	2.2	.0
1500'	1	4.4	.1
1750'	0		
2000'	0		
2250'	1	2.2	.0
2500'	1	2.2	.0
2750'	1	2.2	.0
3000'	1	2.2	.0
3250'	3/4	6.6	.1

DEEPSINING RECORD

Date Commenced: November 14, 1954
 Date Completed: December 1, 1954

Deepened from 3430' to 3490' FB TD-3488'

Production Before: 1 barrel of oil and 7 barrels of water per day.
 Production After: 25 barrels of oil and 15 barrels of water

8-5/8" casing perforated from 3365' to 3373' with 48 holes

Moved in and rigged up cable tools of J. L. Copeland Drilling Company on November 14, 1954. Pulled rods and 2" tubing, swabbed hole down, bailed and tested 3 hours, 1/3 barrel of oil and 1/2 barrel of water per hour. Treated through 8-5/8" casing with 1000 gallons of Halliburton MV acid as follows:

ACID TREATMENT NO. 2 - Between 3380' and 3430'

Treatment put in 11/16/54 by Halliburton, using 1000 gallons of acid and 212 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
2:52 pm	0		Start acid
2:58 pm	0		Acid in casing
3:37 pm	0		Acid on bottom
3:45 pm	0		1000 gallons of acid in formation

Swabbed through 8-5/8" casing 15 hours, 195 barrels of oil used in treating. Swabbed through 8-5/8" casing 24 hours, 17 barrels of oil used in treating, 5 barrels of formation oil and 1 1/2 barrels of water. Drilled deeper as follows:

Brown lime with flakes of pyrite	3430	3436	Good porosity with small amount of stain
Gray to brown lime with shale streaks	3436	3441	No porosity or stain Bailed and cleaned up hole, swabbed through 8-5/8" casing 7 hours, 6 1/2 barrels of oil and 3/4 barrel of water.
Gray to brown lime	3441	3446	No porosity or stain
Brown lime	3446	3451	Good porosity and saturation
Gray to brown lime	3451	3456	Fair porosity and stain Swabbed through 8-5/8" casing 5 hours, 5 barrels of oil and 1/2 barrel of water.
Dark gray to black cherty lime	3456	3461	No porosity or stain
Gray lime with gray and black shale	3461	3466	Poor porosity and slight stain
Gray to brown lime	3466	3474 1/2	Poor porosity and no stain Ran G.M., no corrections. Ran Gamma Ray Survey. Swabbed through 8-5/8" casing 14 hours, 15 barrels of oil and 12 barrels of water. Bailed and cleaned up hole 3 hours, then swabbed and bailed through 8-5/8" casing 21 hours, 12 barrels of oil and 12 barrels of water.
Gray to brown lime	3474 1/2	3479 1/2	No porosity or saturation
Gray shale	3479 1/2	3490	No porosity or saturation.

Bailed and cleaned up hole, then bailed and tested 6 hours, 4 barrels of oil and 4 barrels of water.

On November 23, ran 2" tubing to 3475' and treated through tubing with 1000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 3 - Between 3430' and 3490'

Treatment put in 11/23/54 by Halliburton, using 1000 gallons of acid and 190 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
2:00 pm			Start oil
2:05 pm		200	Start acid
2:09 pm		0	Acid on bottom
2:15 pm		0	Start flush
2:35 pm		0	1000 gallons of acid in formation

Swabbed through 8-5/8" casing 12 hours, 148 barrels of oil used in treating and 6 barrels of water.

On November 24, set Lane-wells bridging plug at 3375'. Plugged back with 1/2 sack Cal-meal from 3375' to 3374'. Perforated 3-5/8" casing from 3365' to 3373' with 43 holes by Lane-wells; bailed and tested 2 hours, 1 gallon of muddy water per hour. Treated through 3-5/8" casing from 3365' to 3373' with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT No. 4 - Between 3365' and 3373'

Treatment put in 11/24/54 by Halliburton, using 500 gallons of acid and 206 barrels of oil to flush.

TIME	OP.	REMARKS
5:30 pm	Vac.	Start acid
5:35 pm	Vac.	Start flush
6:00 pm	1000.	acid on bottom
6:07 pm	1000.	250 gallons of acid in formation
6:15 pm	1000.	500 gallons of acid in formation

Swabbed through 3-5/8" casing 3 hours, 206 barrels of oil used in treating and 12 barrels of spent acid water; then bailed and tested 4 hours, 5 gallons of water, no oil.

On November 27, drove Lane-wells bridging plug from 3375' to 3488' Flat, and swabbed out oil used to load hole; then swabbed 6 hours, 15 barrels of oil and 10 barrels of water.

On November 27, ran 2" tubing and rods, 206 10 hours, 4 barrels of oil and 70 barrels. Moved out cable tools and pumped as follows:

DATE	BARRELS PUMPED	BARRELS OIL	BARRELS WATER
11-28-54	24	3	40
11-29-54	24	15	15
11-30-54	24	25	40
12-1-54	24	25	15

PLUGGED BACK TOTAL DEPTH 3488'