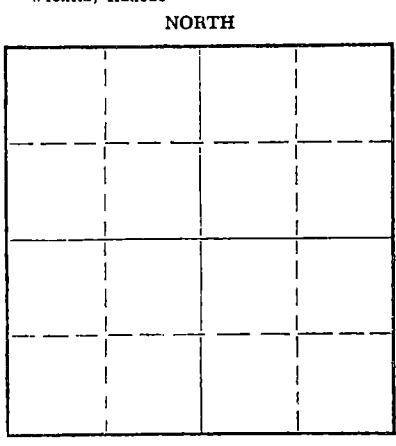


STATE OF KANSAS
CORPORATION COMMISSION
Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 No. Market
Wichita, Kansas

WELL PLUGGING RECORD

Pawnee County, Sec. 8 Twp. 23 Rge. 17 (E) (W)

Location as "NE/CNW/SW" or footage from lines NE NE SE
Lease Owner Raymond Oil Co., Inc.
Lease Name L. J. Schartz #4 Well No. _____
Office Address Wichita, Kansas 67202
Character of Well (completed as Oil, Gas or Dry Hole) _____
Date well completed _____ 19____
Application for plugging filed _____ 19____
Application for plugging approved _____ 19____
Plugging commenced 4/4/69 _____ 19____
Plugging completed 4/18/69 _____ 19____
Reason for abandonment of well or producing formation depleted.



Locate well correctly on above Section Plat

If a producing well is abandoned, date of last production _____ 19____
Was permission obtained from the Conservation Division or its agents before plugging was commenced? yes

Name of Conservation Agent who supervised plugging of this well Massey
Producing formation _____ Depth to top _____ Bottom _____ Total Depth of Well 4352 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
				8-5/8	222'	none
				5 1/2"	4351'	3301'

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

Checked hole to 4352', ran sand to 4200' and ran 5 sacks of cement. Loaded hole, shot pipe at 3387', 3311', worked pipe loose and pulled 20 joints, pipe stuck. Checked hole to 2030', pumped 40 bbl. oil, pushed plug to 2425', pulled 58 joints. Talled pipe. Pumped 20 sacks mud, 5 sacks hulls and 100 sacks of cement.

PLUGGING COMPLETE.

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Wichita, Kansas

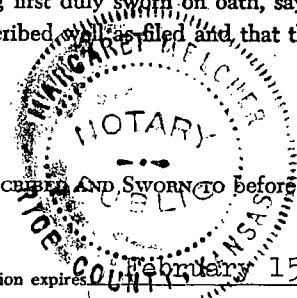
(If additional description is necessary, use BACK of this sheet)
KNIGHT CASING PULLING CO., INC.

Name of Plugging Contractor CHASE, KANSAS
Address _____

STATE OF KANSAS COUNTY OF RICE, ss.
NOEL J. KNIGHT (employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) Noel Knight
CHASE, KANSAS
(Address)

SUBSCRIBED AND SWORN TO before me this 21st day of April, 19 69



Margaret Melcher
Notary Public.

My commission expires February 15, 1971

WELL LOG

15-145-01106-0000

WELL NO. 4 FARM L. J. SCHWARTZ
 DEEP ROCK INTEREST Hilton Drilling Co., Inc. PARTNER'S INTEREST _____
 OVERRIDE OR OIL PAYMENT _____
 LEASE DESCRIPTION _____ 320 Acres
 SEC. 8 TWP. 29S RANGE 17W COUNTY Palmer STATE Kansas
 WELL LOCATED NE $\frac{1}{4}$ NS $\frac{1}{4}$ SE $\frac{1}{4}$ FT. _____
 OF _____ LINE _____ FT. _____ OF _____ LINE OF _____
 DRILLING CONTRACTOR Hilton
 PRICE PER FT. _____ DAY WORK RATE _____
 CONTRACTOR FURNISHED _____
 DRILLING IN CONT. Herring RATE PER DAY _____
 ROTARY COMMENCED 7/9/54 COMPLETED 7/22/54
 CABLE TOOLS COMMENCED 7/24/54 COMPLETED 7/28/54
 ELEVATION D. F. 2089 GROUND _____ ROT. B. _____
 ZERO POINT 7' above braden head TYPE OF WELL _____

SAND RECORD:

	TOP	BOTTOM	THICKNESS

COMPLETION DATE 7/28/54
 T. D. ROTARY HOLE 4352'
 T. D. CABLE TOOL HOLE _____
 MAXIMUM DEVIATION _____
 PLUGGED BACK WITH _____
 PLUGGED BACK TO _____

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CASING RECORD

SIZE O. D.	WEIGHT PER FT.	GRADE	LW OR SMLS	THREAD	CPLG	NEW OR S. H.	SET AT	CEMENT WITH	AQUA-GEL	SIZE HOLE	PULLED
<u>6-5/8</u>	<u>24</u>						<u>222'</u>	<u>175</u>			
<u>5-1/2</u>	<u>15.5</u>						<u>4351'</u>	<u>150</u>			

CENTRALIZERS _____ SHOE _____
 TOP CEMENT BY SURVEY _____ SCHLUMBERGER TO _____

ACID TREATMENT, SHOT OR PERFORATING RECORD

DATE	TOTAL DEPTH	FROM	TO	ANCHOR USED	SHELL DIA.	PRODUCTION BEFORE	PRODUCTION AFTER	AMOUNT OF SHOT OR ACID	TORPEDO COMPANY
(See other side.)									

WATERFLOOD INFORMATION

CORE RECORD:
 DATE CORED _____
 TYPE OF BARREL USED _____
 CORING FLUID _____
 CORED FROM _____ TO _____
 TOTAL CORE RECOVERED _____
 PERCENTAGE RECOVERY _____

WELL COMPLETION DATA:
 T. D. WHEN COMPLETED _____
 ANCHOR USED _____
 PACKER SET AT _____
 CHAT FILLED TO _____
 PACKER CEMENT: BOTTOM _____ TOP _____
 SACKS CEMENT USED _____

PRODUCTION RECORD

NOTE: GIVE ALL PRODUCTION DATA FOR FIRST FEW DAYS; SHOWING WHETHER NATURAL _____ AFTER SHOT _____ AFTER ACID _____

DATE	OIL BARRELS	GAS M. CUBIC FT.	WATER BARRELS	HOURS	METHOD	PRESSURES CASING/TUBING	REMARKS SIZE CHOKE, ETC.

APPROVED _____

cc: Wilson

ADDITIONAL INFORMATION:

RTD 4352'. Drill pipe tally 4352.33, beard 4354.88, 5-1/2" 15.5# - 4351' w/150 sacks common. Shoe 33.36 overall. Zero 7' above braden head, float collar @ 4317.64. Casing collars @ 4275.27, 4231.11, 4187.95, 4147.59, 4103.47, 4060.16, 4017.25. Logged well w/1-N to 4332. Perf. 4226-32', 36 holes, recovered 3 gals Dr. water w/light scum of oil, 2 hr. test. Run 2" tubing w/hydraulic tubing anchor to 4215' and fraced w/200 gals mud acid, max pressures 1100#, breaking to 700#. Ran 30 bbl. oil flush, ran 5000 gals Petrofrac and 6000# 40-60 sand. Max press. 4600# breaking to 4400# 75 bbls. flush, final pressure 2575# 1 min 1200# 5 min 12100#. Shut in for press. drop. Swabbed well thru tubing and after recovery of 155 bbls., well started flowing and recovered frac load at rate of 20-21 bbl. per hr. Frac load recovered and 6 hrs. flowing test shows 22 bblc. per hr. w/no show of water.

WELL LOG

DST #1

Clay & sand	40
Sand	70
Shale	110
Shale & sand	200
Shale	223
Shale, shells & sand strk	385
Red bed & sand	665
Red bed	1120
Anhydrite	1150
Shale & shells	1485
Lime & shale	2125
Lime	2360
Sand	2410
Lime	2470
Shale & lime	3275
Lime	3700
Shale & lime	3762
Lime	4134
Shale & lime	4190
Lime	4202
Conglomerate	4240
Chert	4257
Chert, lime & shale	4323
Lime & chert	4354
Total depth	4354

Packer set @ 4224'. Total depth @ 4257'. Open 1 hr. with strong steady blow thruout. Recovered 240' gas, 50' slightly oil cut mud, 120' oil cut mud, and 60' muddy oil. Shut in 30 min. DWP 1165#, IFF 38#, RFP 90#.

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Anhydrite	1120	
Hectner	3659	-1567
Brown lime	3762	-1670
Lensing K.C.	3770	-1678
Shaley congl.	4198	-2106
Cherty congl.	4224	-2132
Mississippi	4239	-2147
Misener	4297	-2205
Viola	4334	-2242
R.T.D.	4352	-2260