STATE OF KANSAS

STATE CORPORATION COMMISSION

Size All Information Completely

Make Required Affidavit

Mail or Deliver Report to:

Conservation Division

State Corporation Commission

211 No. Broadway

Wichita, Kansas

WELL PLUGGING RECORD

Application for plugging opproved Application for plugging opproved Application for plugging opproved Application for plugging opproved Bugging commenced In Hearon for abandonment of well or producing form also Framework on above section for the Conservation Division or its agents before plugging one of Conservation Agent who supervised plugging of this well Framework on above section for the Conservation Division or its agents before plugging was one of Conservation Agent who supervised plugging of this well Framework on a supervised plugging of the supervised plugging	Wichita, Kansas	- Clai	rk	Count			$(E)_{-25}(W)$
Learn Name Their Sas Unit "W" Woll No. 1 Office Address Great Blend Kansas Clameter of Well (completed at Oil, Car or Day Hole). Date well completed. Application for plugging upowed. Ind. Huging commenced. Ind. Huging completed. Ind. Huging complete	NORTH	,	CNW#SW#"	or footage fro	ли пиеѕ	V SW NE	
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Total Dopth of Well 5800' 1 Work and thickness of all water, oil and gas formations. CASING RECORD FROM TO BAZE RUTH PAULED DOY 1 123' 1 None 1 123' 1 1	Locate well correctly on above Section Plat	menced?		yes			
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CONSERVATION DIVISION Wichis, Nansas (If additional description is necessary, use BACK of this sheet) ame of Plugging Contractor R & D Casing Fulling Co. License #236 didress Box 154, Ellinwood, Kansas FATE OF Kansas , COUNTY OF Barton , ss. Nathan Meltzer						F (- 1 - 1 - 1	
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commission expires	3/3	0/61	· · ·	Änn	e Meltz	er	Notary Public.
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WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY 508 East Murdock, Wichita, Kansas

Company ATLANTIC REPINING CO., ET AL. Farm Theis Gas Unit #5 No. 1

SEC. 21 T. 34 R.25W SW SW NE

Total Depth. 5800 °

Comm. 8-14-58

Comp. 9-4-59

Shot or Treated.

Contractor. Reaves Drilling Co., Inc.

Issued. 1-17-59

CASING:

8 5/8" @ 1234.64' cem. w/450 sx. 4 1/2" @ 5800' cem. w/200 sx. County Clark KANSAS

Elevation. 2043! DF

Production. 425,000 CFG

Figures Indicate Bottom of Formations.

sand-shale	. 153
red bed & shale	590
shale	885
shale & lime streaks	1237
shale	2060
shale & lime	2668
shale, lime & chalk	2751
shale	2818
shale-chalky lime	2944
shale & line	3023
shale	3110
shale & lime streaks	3257
shale & lime	3616
shale & sdy. shale	3740
shale	3890
shale & lime	4010
shale	4499
lime - shale streaks	4583
lime	4776
shale & lime	4846
lime	5003
line & shale	5045
line	5 394
lime & shaly lime	5444
line	5651
sand & line	5681
line	, 5800
Total Depth.	•
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TOPS: SCOUT		
Heebner	,	4302
Lansing		4476
Morrow		5622
Mississippi		5671

DST. #1. 5608-5651 (Morrow-Miss.)
Tool open 1 hr, very weak air blow for
16 min. and died. Rec. 10' drilling
mud. IFP 0#, FFP 15#. BHSIP 35#/30 min.

DST. #2. 5651-5716 (Miss.) Tool open 1 hr. immediate strong air blow, gas to surface in 6 min. 20# fl surface pressure, 215 MCF/D. in 15 min., 60# surf. pressure, gas rate 499 MCF/D; 30 min. 100# surface pressure, 730 MCF/D; 45 minutes, and 1 hr. 110# surface pressure, 734 MCF/D. Rec. 60' heavily gas cut drilling mud. IFP 35#, FFP 205#. BHSIP 1990#/30 minutes.

DST #3 5716-5800 (Miss.) Tool open 1 hr. immediate strong air blow, gas to surface in 5 min. 40# surf. pressure, gas rate 353 MCF/D. Rec. 595 very heavily gas cut foamy salt water. IFP

50#, FFP 310#. BHSIP 1720#/30 min.

Perforation 5722-28 (Miss.): Squeezed: Killed well w/80 bbls. wtr. Pulled 178 jts 2" tbg. Ran HOWCO DC Squeeze tool on 184 jts tbg., set @ 5715', pressure to 5000 psi. annulus to 1500#. Broke formation w/1800#, pumped 10 bbls. wtr. @ 5 BPM @ 2500#. Mixed & pumped 50 sx. cem. @ 4 BPM, 1500#. Displaced w/18 bbls. wtr. min. 1000#, max. 5500#. Squeezed @ 5500# w/28 sx outside 4%" csg. reversed 22 sx cem. Pulled 2" tbg w/squeeze packer. Ran 178 jts. 2" 4.7# J-55 tbg hung @ 5518.08' w/collar on bottom. Perforations 5650-56, 5660-69, 5673-81 & 5686-5705 (Miss.): Sand-Petrofrac & Waterfrac #1: Broke formation w/40 bbls.wtr w/J-79 & 82 added, MP 3400-2400# @ 15 BPM. Pumped 40,000 gals. wtr. 140# J-79 & 400# J-84 FL additive added, w/20,000# 20-40 Ottawa sand, MP 4200-3600# @ 17.4 BPM. Pumped 30,000 gals. 7% acid-Petrofrac (90% acid, 10% kero emulsion), 450# J-82 added & 20,000# 20-40 mesh Ottawa sand, MP 4800-4000# @ 18 BPM, using 17 nylon ball sealers in last 20,000 gals. pressure increasing from 4,000# to 4,800# 63 ball sealers fouled in gun. Flushed W/155 bbls. water (35 bbls. overflush) @ 12.8 BPM. Reset packer @ 5685'. Perforation 5686-5705 (Miss.): Acid-frac #2: Loaded hole & broke formation w/20 bbls. 74% gelled acid, MP 3800-3200#. Mixed & pumped 8,000 gals. 7½% acid w/ 8000# 20-40 sand @ 7.9 BPM, MP 3400-3200# Flushed w/20 bbls. gelled 7½% acid & 23 BO @ 6.2 BPM, MP 4300-3200, final 4300#. Tubing hung @ 5552.13'. Completed 10-22-58 as gas well. Now shut in waiting for connection. Gas rate 425, MCF/D TP 390#, CP 781#, 23 hr. flow test.

> RECEIVED STATE CORPORATION COMMISSION

> > JUL 16 1964

CONSERVATION DIVISION Wichita, Kansas

THE ATLANTIC REFINING COMPANY 830 Kennedy Building Tulsa 3, Oklahoma

Well Log - Theis Gas Buit V. Well No. 1

Location: C SW/4 SW/4 NE/4 of Section 21-34-25W, Clark County, Manages.

Lease No: ES-16,084 and 16,085 (Drill Site).

Elevations: GL 2038'; DF 2043'; REB 2046.5'.

Operations Begun: August 14, 1958.

Reached Total Depth: September 4, 1958.

Contractor: Reaves Drilling Company, Inc., P. O. Box 32, Cashing, Oklahoma.

Casing Record: Set 39 joints 8-5/8" J-55 24% casing at 1234.64", comented with 450 sacks regular, 4% gel and 2% CaCl₂ added, followed by 200 sacks neat. Circulated to surface.

Set 184 joints 4-1/2" J-55 11.6% casing at 5800", comented with 200 sacks regular.

Formation Becord

Sand-shale Shale Shale and lime streaks Shale and lime Shale, lime and chalk Shale and lime Idme - shale streaks Lime Shale and shale Idme and shale Idme Idme Idme Idme Total Depth	153 - 590 590 - 885 885 - 1237 1237 - 2060 2060 - 2668 2668 - 2751 2751 - 2818 2818 - 2944 2944 - 3023 3023 - 3110 3110 - 3257 3237 - 3616 3616 - 3740 3110 - 3257 3297 - 3616 3616 - 3740 3100 - 4499 499 - 4583 4583 - 4776 4776 - 4846 4846 - 9003 5003 - 5045 5045 - 5394 5394 - 5444 5444 - 3651 5651 - 5681 5681 - 5800
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COMPLETION

DST #1 5608-5651 (Morrow-Miss.):

Tool open 1 hour, very weak air blow for 16 minutes and died. Recovered 10° drilling mad. IFP 0#, FFF 15#. BHSIP 35#/30 minutes.

DST #2 5651-5716 (Miss.):

Tool open 1 hour, immediate strong air blow, gas to surface in 6 minutes, 20% fl surface pressure, 215 MGP/D. In 15 minutes, 60% surface pressure, gas rate 499 MGF/D; 30 minutes, 100% surface pressure, 730 MGF/D; 45 minutes, and 1 hour, 110% surface pressure, 734 MGP/D. Recovered 60° heavily gas out drilling mud. IFP 35%, FFP 205%. BHSIP 1990%/30 minutes.

DST #3 5716-5800 (Miss.):

Tool open 1 hour, immediate strong air blow, gas to surface in 5 minutes, 40% surface pressure, gas rate 353 MCF/D.
Recovered 595' very heavily gas cut feasy salt uster. IFP 50%, FFP 310%. BHSIP 1720%/30 minutes.

Well Log - Theis Ges Unit V. Well No. 1

Page 2

Perforation 5722-28 (Miss.):

Squeezed as follows: Killed well w/80 bbls, water. Pulled 178 jts 2" thg. Ran HOWOO DC squeeze tool on 184 jts thg. set & 5715', pressure to 5000 psi, annulus to 1500#. Broke formation w/1800#, pumped 10 bbls. water @ 5 BFM @ 2500#. Mixed & pumped 50 sx comset @ 4 BFM, 1500#. Displaced w/18 bbls. water, minimum 1000#, maximum 5500#. Squeezed @ 5500# w/28 sx outside 42" csg, reversed 22 sx cement. Pulled 2" tbg w/squeese packer. Ran 178 jts 2" 4.7# J-55 tbg hung 8 5518.08' w/collar on bottom.

Perforations 5650-56, 5660-69, 5673-81 & 5686-5705 (MLss.):

Sand-Petrofrac and Waterfrac #1: Broke formation w/40 bbls. water w/J-79 & 82 added, NP 3400-2400# @ 15 BFM. Pumped 40,000 gals. water, 140# J-79 & 400# J-84 FL additive added, w/20,000# 20-40 Ottawa sand, MP 4200-3600# @ 17.4 BPM. Pumped 30,000 gals. 75% acid-Petrefrac (90% acid, 10% kero emulsion), 450# J-82 added & 20,000# 20-40 mesh Ottawa sand, MF 4800-4000# @ 18 BFM, using 17 nylon ball scalers in last 20,000 gals., pressure increasing from 4,000# to 4,800#. 63 ball scalers fouled in gum. Flushed w/155 bbls. water (35 bbls. overflush) @ 12.8 BFM. Reset packer 6 5685'.

Perforation 5686-5705 (Miss.): Acid-frac #2: Loaded hole & broke fermation w/20 bbls. 75% gelled acid, MP 3800-3200%. Mixed & pumped 8,000 gals. 75% acid w/8000% 20-40 sand 6 7.9 BFK, MP 3400-3200%. Flushed w/20 bbls. gelled 78% acid & 23 BO @ 6.2 BPM, MP 4300-3200. final 4300#. Tubing hung @ 5552.13 . Completed 10-22-58 as gas well. Now shut in waiting for connection. Gas rate 425 MCF/D, TP 390#, CP 781#, 23 br. flow test.

STATE OF OKLAHOMA) 881 COUNTY OF TULSA

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct, and complete according to the records of this office and to the best of my knowledge and belief.

ORIGINAL SIGNED BY

J. E. Hellinghausen Regional Drilling Manager

Subscribed and sworn to before me this 17th day of December, 1958.

My commission expires 4-6-59.

Wanda Davis Motary Public

RECEIVED

DEC 18 1958

PROPINING SECTION DUNC MN, CIKLA.