

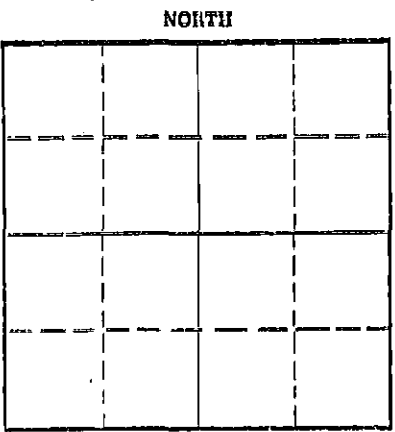
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STATE OF KANSAS
STATE CORPORATION COMMISSION

Form CP-4

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



Locate well correctly on above
Section Plot

Meade County, Sec. 29 Twp. 32S Rge. (E) 30 (W)
Location as "NE/CNWSW" or footage from lines C SE/4 SE/4
Lease Owner Skelly Oil Company
Lease Name Raymond Vail Well No. 1
Office Address 1860 Lincoln Street, Denver, Colorado 80203
Character of Well (completed as Oil, Gas or Dry Hole) Gas
Date well completed July 13, 1956
Application for plugging filed August 9, 1971
Application for plugging approved August 12, 1971
Plugging commenced September 21, 1971
Plugging completed September 30, 1971
Reason for abandonment of well or producing formation Depleted, Gas

If a producing well is abandoned, date of last production August 24, 1970
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 Mr. E. Eves
Producing formation Morrow Sand Depth to top 5569' Bottom 5576' Total Depth of Well 5578' 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
Morrow Sand	Gas	5569'	5576'	9-5/8"	1570'	0
				5-1/2"	5738'	2674'

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.

9-21/71 - MI & RU Chase Well Service Unit. Pulled rods and tubing.
Ran 2 sacks of hulls and 2 sacks of Gel mud, followed w/35 sacks of Pozmix Cement and squeezed thru 5-1/2" casing perfs 5569' to 5576' by Howco w/200# pressure. Used 135 bbls. of water flush. Pumped Howco Rubber plug to 4703'.
9-23-71 Took tension on 5-1/2" casing. Shot casing at 4321', 4135', 3726', 3554', 3107', 2921', 2793'. Unable to pull free. Shot 5-1/2" casing at 2704', casing pulled free. Pulled total of 83 joints 5-1/2" 15.5# 8R R-2 SS R-2 Cond. "C" casing.
Plugged back from 1000' to 990' Rock Bridge
990' to 885' 35 sacks cement
885' to 55' Native Mud
55' to 45' Rock Bridge
45' to Base of Collar - 15 sacks of cement
Surface soil from base of collar to ground level.
Completed P&A 9-30-71.

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(If additional description is necessary, use BACK of this sheet)

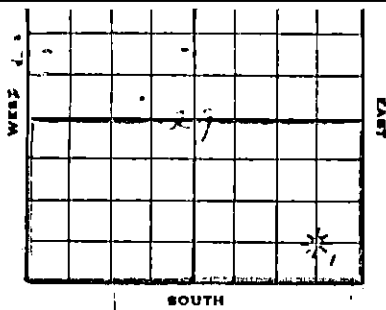
Name of Plugging Contractor Knight Casing Pulling Co.
Address P. O. Box 405, Chase, Kansas

STATE OF Colorado, COUNTY OF Denver, ss.
A. H. Hurley (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) X A. H. Hurley
1860 Lincoln Street, Denver, Colorado 80203
(Address)

SUBSCRIBED AND SWORN to before me this 7th day of October, 1971

My commission expires November 4, 1973
Geraldine Pate Notary Public.



Well Record **15-119-5000** RB
 #36037 0000 2761' DF
 Elev. 2750' BH

Lease Name and No. Raymond Vail Well No. 1 Elev. 2750'
 Lease Description S/2 Sec. 29-32E-30W, Meade County,
Kansas (320 A.)
 Location made May 25, 1956 by Meade County Engineer
660 feet from North line 660 feet from East line SE/4
660 feet from South line 660 feet from West line of Sec. 29

Work com'd. 5/26 1956 Rig comp'd. 6/2 1956 Drlg. com'd. 6/2 1956 Drlg. comp'd. 7/13 1956
 Rig Contractor Claude Wentworth Drilling Co., Inc.
 Drilling Contractor Claude Wentworth Drilling Co., Inc., Tulsa, Oklahoma
 Rotary Drilling from 0' to 5700' Cable Tool Drilling from To complete to 5700'

Commenced Producing July 17, 1956 { Initial Prod. before shot or acid _____ Bbls.
 Initial Prod. after shot or acid _____ Bbls.

Dry Gas Well Press _____ Volume 7,940,000 Cu. ft.
 Casing Head Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (9-5/8 Size 5x5 1/2 OD) Gas Pressure _____ Cu. ft.
 Braden Head (_____ Size _____) Gas Pressure _____ Cu. ft.

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PRODUCING FORMATION Morrow Sand (Name) Top 5569' Bottom 5576' TOTAL DEPTH PB 5578'

CASING RECORD

OD	Size	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING	
					Jts.	Feet	In.	Jts.	Feet	In.			Sacks Used	Method Employed
9-5/8"		32.3	8R	1570'				53	1569	9	N40 R2 SS A		1100	Halliburton
5-1/2"		15 1/2	8R					63	2658	6	J55 R3 SS A			
5-1/2"		15 1/2	8R					26	867	10	J55 R2 SS B			
5-1/2"		15 1/2	8R	5699'				69	2212	2	J55 R2 RIW A		200	Halliburton
(9-5/8" casing set 3' in collar and 5 1/2" cased to derrick floor)														
5 1/2" casing perforations open: Below bridging plug, 5581'-5586' w/ 30 holes; above bridging plug, 5569'-5576' with 42 holes														

Liner Set at _____ Length _____ Perforated at _____
 Liner Set at _____ Length _____ Perforated at _____
 Packer Set at _____ Size and Kind _____
 Packer Set at _____ Size and Kind _____

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SHOT OR ACID TREATMENT RECORD

Date	FIRST		SECOND		THIRD		FOURTH	
	Gals.	Qts.	Gals.	Qts.	Gals.	Qts.	Gals.	Qts.
7/13/56	500	30L						
7/14/56								
7/15/56								
Shot Between	5581 Ft. and 5586 Ft.		5581 Ft. and 5586 Ft.		5569 Ft. and 5576 Ft.		Ft. and Ft.	
Size of Shell								
Put in by (Co.)	Halliburton		Halliburton		Halliburton			
Length anchor								
Distance below Cas'g			Diesel-Oil-Frac		Diesel-Oil-Frac			
Damage to Casing or Casing Shoulder								

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Lansing Lime	4470'						
Marmaton Lime	5078'						
Cherokee Lime	5281'						
*Morrow Lime	5562'	5569'	5576'				
*Chester	5590'						
*Morrow Sand	5568'						

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

Set and cemented 2658'6" of 5 1/2" OD, 15.5#, 8R thd., R-3, J-55, S.S. casing (A cond.); 867'10" of 5 1/2" OD, 15.5#, 8R thd., R-2, J-55, S.S. casing (B cond.); 2212'2" of 5 1/2" OD, 15.5#, 8R thd., R-2, J-55, R.E.W. steel casing (A cond.) at 5699' with 200 sacks of common cement. Finished at 3:45 a.m. 7/5/56. Halliburton Temperature Survey showed top of cement behind 5 1/2" casing at 4620'.

Rigged up cable tools and swabbed the hole dry on July 13. Cleaned out to 5652' and 5 1/2" casing tested dry. Perforated 5 1/2" casing from 5581' to 5586' with 30 holes by Lane-Wells, no shows. Treated through 5 1/2" casing with 500 gallons of Halliburton mud acid as follows:

ACID TREATMENT NO. 1 - Between 5581' and 5586'

Treatment put in 7/13/56 by Halliburton, using 500 gallons of acid and 133 barrels of water.

TIME	CP	TP	REMARKS
10:45 am	0#		Start acid
11:00 am	0#		Acid on bottom
6:40 pm	800#		500 gallons of acid in formation

Swabbed out water used in treating and hole tested dry, gas gauged 368 M.C.F. Ran Halliburton diesel-oil-frac as follows:

DIESEL OIL FRAC TREATMENT NO. 1 - Between 5581' and 5586'

Used 6000 gallons of diesel Gel
 2000# 60/40 sand
 4000# 20/40 sand
 1000 gallons of diesel oil
 Maximum CP-2400#, minimum CP-1800#
 Time 8 1/2 minutes
 Flushed with 5500 gallons of water

Swabbed through 5 1/2" casing and well started flowing. Flowed through 5 1/2" casing 17 hours, gas gauged 3,500 M.C.F.

Set Lane-Wells bridging plug at 5578' and perforated 5 1/2" casing from 5569' to 5576' with 42 holes by Lane-Wells, gas gauged 3,500 M.C.F., apparent communication with zone from 5581' to 5586'. Ran Halliburton diesel-oil-frac as follows:

DIESEL-OIL-FRAC TREATMENT NO. 2 - Between 5569' and 5576'

Used 12,000 gallons of diesel gel
 Used 12,000# of sand
 2,000 gallons of diesel flush
 3,500 gallons of water
 Time 12 minutes
 Maximum CP-1900#

Ran 2" tubing with mud anchor and swabbed well in through 2" tubing. Flowed through 2" tubing 7 hours, gas too wet to gauge. Shut well in 16 hours, deadweight pressure 1723#. On July 17, flowed through 2" tubing 3 hours, CP-975#, gas gauged 5,690 M.C.F., absolute open flow deliverability 7,940 M.C.F. per day.

TOTAL DEPTH 5700' PB 5578'

DEPTH	SLOPE TEST DATA	
	ANGLE OF DEFLECTION	
170'	1/2	Degree
260'	1/2	"
355'	3/4	"
447'	1	"
557'	3/4	"
754'	1/2	"
938'	3/4	"
1106'	1/2	"
1150'	1/2	"
1490'	1/4	"
1750'	1/2	"
2000'	1/2	"
2250'	1/2	"
2750'	1/2	"
3000'	0	"
3250'	1/2	"
3880'	1/2	"
4000'	1	"
4750'	3/4	"
5200'	1	"

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Surface soil, clay and sand	0	115
Clay, sand and shale	115	440
Shale and sand	440	985
Shale, shells and red bed	985	1275
and, lime and shale	1275	1600

Shale and shells	1600	2335
lime and shale	2335	2360
alt, lime and shale	2360	2427
lime and shale	2427	2810
shale and shells	2810	2910
lime and shells	2910	3005
lime and shale	3005	4740
lime	4740	4776
lime and shale	4776	5078
lime	5078	5125
lime and shale	5125	5201
lime	5201	5233
lime and shale	5233	5291
lime	5291	5320
lime and shale	5320	5395
lime	5395	5424
lime and shale	5424	5484
lime	5484	5528
lime and shale	5528	5565

Set and cemented 9-5/8"OD, 32.3#, 8R thd., R-2, H-40, S.S. casing (A cond.) at 1570' with 1100 sacks of common cement and 4 sacks of calcium chloride. Cement circulated.

TOP LANSING LIME 4470'

TOP MARMATON LIME 5078'

TOP CHEROKEE LIME 5281'

TOP MORROW LIME 5562'

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Recovered from 5565' to 5601' - Recovered 35'

- Top 1' - Dark gray, very shaly lime
- Next 4' - Green, fine grained, slightly shaly, very glauconitic sand, fair porosity, gas odor
- Next 4' - Brown, fine grained, slightly shaly glauconitic sand, good porosity, gas odor
- Next 2' - Sand as above, fair porosity and gas odor
- Next 3' - Brown, fine grained, glauconitic, limey, crinoidal dense sand
- Next 2' - Same with good porosity and gas odor
- Next 2' - Brown, coarse crystalline crinoidal glauconitic fossilitic dense lime.
- Next 3' - Same with trace of pin point porosity, no shows
- Next 1' - Brown, medium crystalline slightly sandy crinoidal glauconitic fossilitic lime, dense
- Next 2' - Tan, crypto-crystalline, fine crinoidal dense lime

TOP CHESTER LIME 5590'

- Next 2' - Coarse crystalline, shaly, crinoidal dense lime
- Next 2' - Same, good porosity, bleeding oil
- Next 3' - Brown, coarsely crystalline crinoidal dense lime
- Next 2' - Same, good porosity, bleeding oil
- Last 2' - Gray-brown, coarse crystalline crinoidal shaly lime, dense

Ran Halliburton drill stem test No. 1, packer set at 5553', used 48' anchor, open 1 hour, gas to surface in 7 minutes, gas gauged 108 M.C.F. in 15 mins., 124 M.C.F. in 30 minutes, 132 M.C.F. in 45 minutes, and 132 M.C.F. in 1 hour, recovered 120' of drilling mud, BHP-1700#.

lime and shale	5601	5603
lime	5603	5625

Ran Halliburton drill stem test No. 2, packer set at 5589', used 36' anchor, open 1 hour, light blow throughout test, recovered 30' of drilling mud, BHP-0#.
Ran Schlumberger Survey

Lime	5625	5700
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Tried to run Halliburton drill stem test, packer set at 5625', Packer did not hold. Pulled and reran packer with 93' anchor, set packer at 5607', open 1 hour, weak blow for 20 mins., recovered 50' of drilling mud, BHP-480#.