



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417**WATER ANALYSIS REPORT**COMPANY Roger C. Hanks ADDRESS Hobbs, N.M. DATE: 6-24-75SOURCE Penny Fed. #1 DATE SAMPLED 6-12-75 ANALYSIS NO. 9726
Analysis Mg/L *Meq/L

1. PH	<u>7.5</u>			
2. H ₂ S (Qualitative)	<u>Pos.</u>			
3. Specific Gravity	<u>1.000</u>			
4. Dissolved Solids		<u>6,793</u>		
5. Suspended Solids				
6. Phenolphthalein Alkalinity (CaCO ₃)				
7. Methyl Orange Alkalinity (CaCO ₃)		<u>950</u>		
8. Bicarbonate (HCO ₃)		HCO ₃ <u>1,159</u> ÷ 61 <u>19.0</u>	HCO ₃	
9. Chlorides (Cl)		Cl <u>1,600</u> ÷ 35.5 <u>45</u>	Cl	
10. Sulfates (SO ₄)		SO ₄ <u>1,800</u> ÷ 48 <u>38</u>	SO ₄	
11. Calcium (Ca)		Ca <u>452</u> ÷ 20 <u>23</u>	Ca	
12. Magnesium (Mg)		Mg <u>73</u> ÷ 12.2 <u>6</u>	Mg	
13. Total Hardness (CaCO ₃)		<u>1,430</u>		
14. Total Iron (Fe)		<u>4.0 ppm</u>		
15. Barium (Qualitative)				
16.				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

	Ca	Mg	Na	HCO ₃	SO ₄	Cl		Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
23					19.0			Ca (HCO ₃) ₂	81.04		19		1,539
6					38			Ca SO ₄	68.07		4		272
73					45			Ca Cl ₂	55.50				
								Mg (HCO ₃) ₂	73.17				
								Mg SO ₄	60.19		6		361
								Mg Cl ₂	47.62				
								Na HCO ₃	84.00				
								Na ₂ SO ₄	71.03		28		1,988
								Na Cl	58.46		45		2,633

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

REMARKS Hanks - Cone

CC (3) Saltzman - Worsham - Nix - File

Respectfully submitted
TRETOLITE COMPANY

Ray Shaffner



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WD 1-3500/TWX 910-760-1660/Telex 44-2417

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COMPANY Roger C. Hanks ADDRESS Hobbs, N.M. DATE 6-24-75

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- | | | | |
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| 5. Suspended Solids | | | |
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PROBABLE MINERAL COMPOSITION

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	Na HCO ₃	84.00				
	Na ₂ SO ₄	71.03		28		1,988
	Na Cl	58.46		45		2,633

Saturation Values Distilled Water 20°C

Ca CO₃ 13 Mg/L

Ca SO₄ • 2H₂O 2,090 Mg/L

Mg CO₃ 103 Mg/L

REMARKS Hanks - Cone

CC (3) Saltzman - Worsham - Nix - File

Respectfully submitted
TRETOLITE COMPANY

Ray Shaffner

Exhibits 1 through 6
Complete Set

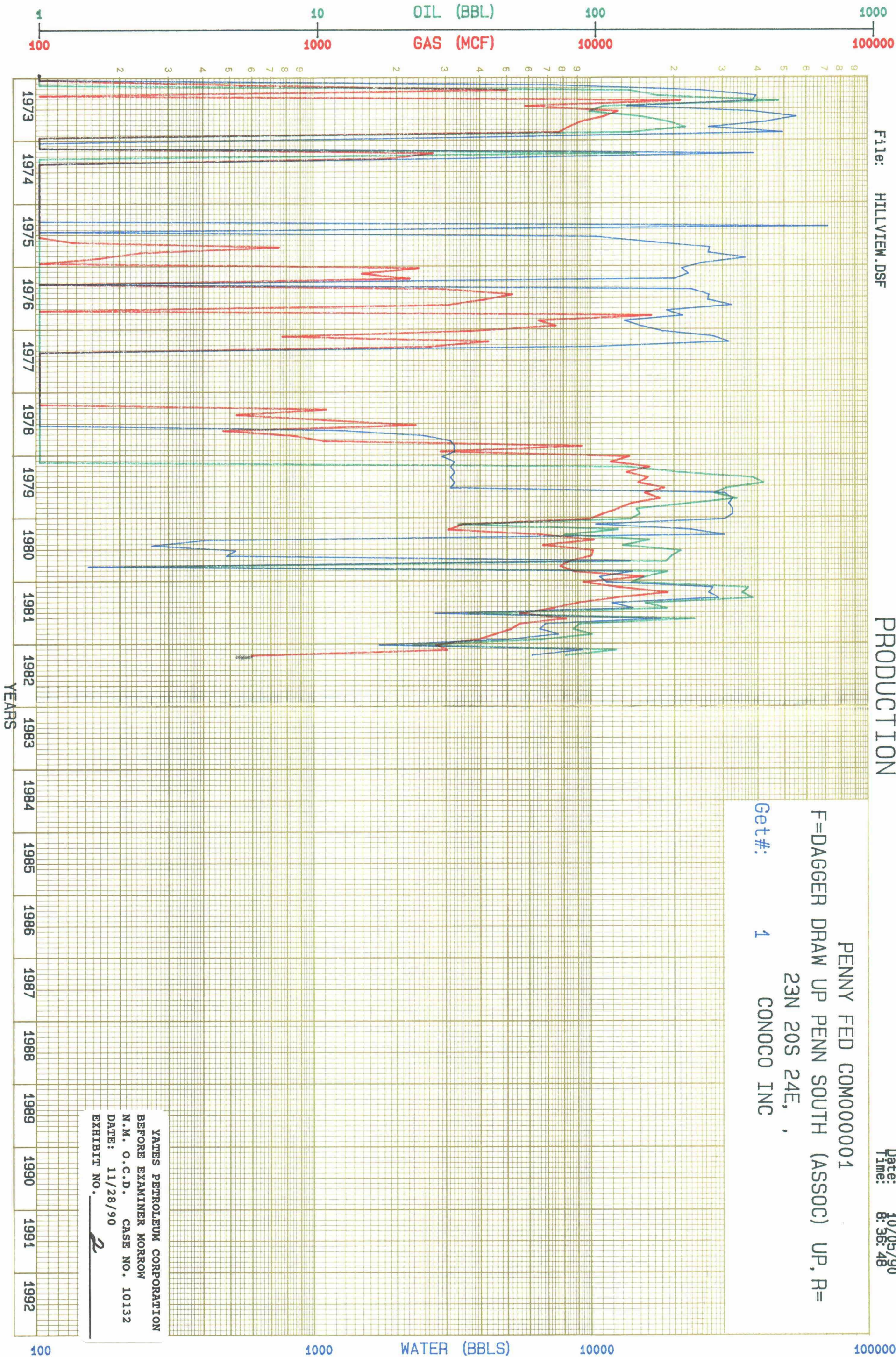
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File: HILLVIEW.DSF

PRODUCTION

Date: 10/05/90
Time: 8:36:48

PENNY FED COM000001
F=DAGGER DRAW UP PENN SOUTH (ASSOC) UP, R=
23N 20S 24E, ,
Get#: 1 CONOCO INC



YATES PETROLEUM CORPORATION
BEFORE EXAMINER MORROW
N.M. O.C.D. CASE NO. 10132
DATE: 11/28/90
EXHIBIT NO. 2

Monthly.

OPERATOR'S COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See back for instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

FILE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. NM 045274	
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☒ Other <u>Recomplete</u>		6. INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR CONOCO INC.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 460, Hobbs, N.M. 88240		8. FARM OR LEASE NAME PENNY FEDERAL	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface <u>660' FSL & 1980' FWL</u> At top prod. interval reported below ☒ At total depth ☒		9. WELL NO. 1	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT UNDESIGNATED WOLFCAMP	
DATE ISSUED		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 23, T-20S, R-21E	
15. DATE SPUDDED 4-17-71		12. COUNTY OR PARISH EDDY	
16. DATE T.D. REACHED 5-17-71		13. STATE NM	
17. DATE COMPL. (Ready to prod.) 3/8/83		14. ELEVATIONS (DF, RKB, RT, GR, ETC.) 3682' DF	
18. TOTAL DEPTH, MD & TVD 7919'		15. INTERVALS DRILLED BY ALL	
19. PLUG, BACK T.D., MD & TVD 6720' BP		16. ROTARY TOOLS NONE	
20. IF MULTIPLE COMPL., HOW MANY*		17. CABLE TOOLS NONE	
21. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6704'-6718' w/2 JSPF WOLFCAMP 6676'-6683' w/2 JSPF "		18. WAS DIRECTIONAL SURVEY MADE YES	
22. TYPE ELECTRIC AND OTHER LOGS RUN CBL, SP, SNP, IES		19. WAS WELL CORED NO	
23. Casing Record (Report all strings set in well) CBL, SP, SNP, IES		20. AMOUNT PULLED	
24. Casing Size NO CHANGE		21. MINERALS MANAGEMENT SERVICE ROSWELL, NEW MEXICO	
25. LINER RECORD		22. TUBING RECORD	
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) NONE		SIZE DEPTH SET (MD) PACKER SET (MD) 2 7/8" 6680' 6665'	
26. PERFORATION RECORD (Interval, size and number) Perf w/2 JSPF 6704'-6718' and 6676'-6683' w/2 JSPF Total 46 HOLES		27. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 6704'-6718' 54 Hls. 15% HCL-NE-FE 6676'-6683' and 7 Hls. TFW.	
28. PRODUCTION DATE FIRST PRODUCTION 3/10/83 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) FLOWING WELL STATUS (Producing or shut-in) PRODUCING		29. DATE OF TEST 3-10-83 HOURS TESTED 24 CHOKE SIZE NA PROD'N. FOR TEST PERIOD 1 OIL—BBL. 1 GAS—MCF. 220 WATER—BBL. 13 OIL GRAVITY-API (COBR.) 220,000	
30. FLOW, TUBING PRESS. NA CASING PRESSURE NA CALCULATED 24-HOUR RATE 1 OIL—BBL. 1 GAS—MCF. 220 WATER—BBL. 13 OIL GRAVITY-API (COBR.) NA		31. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD	
32. LIST OF ATTACHMENTS VERBAL APPROVAL PER PETER CHESTER 3-1		33. YATES PETROLEUM CORPORATION BEFORE EXAMINER MORROW N.M. O.C.D. CASE NO. 10132 DATE: 11/28/90 EXHIBIT NO. 3	
34. I hereby certify that the foregoing and attached information is complete and correct as del		35. SIGNED <u>K. A. Netherland</u> TITLE <u>Administrative Supervisor</u> DATE <u>3/14/83</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

APRIL 14, 1983
FINALS ON REMEDIAL WORK

11/1/83
NMFU - HARE SIMPSON - LEA COUNTY, NEW MEXICO - 25%

AFE NO: NONE

HAWK B-3 NO. 4 - OBJECTIVE: OPEN ADDITIONAL PAY, CO & TEST PUMP

LOCATION: 2130' FSL & 660' FEL OF SECTION 3, T-21S, R-37E

BEFORE:

EST. COST: \$51,200

TD: 7845' PBD 7830'

PERFS: 7612' - 7820'

DF ELEV: 3474'

CSG: 5-1/2" set at 7844'

FORMATION: HARE SIMPSON

TESTED: Shut-in

AFTER:

EST. COST: \$68,012

TD: N/C

PERFS: 7479' - 7820'

DF ELEV: N/C

CSG: N/C

FORMATION: N/C

TESTED: Pmpd 3' BO, 0 BW & 33
MCF in 24 hrs on 3-25-83

WORK STARTED: 10-22-82

WORK COMPLETED: 3-5-83

WORK DONE: Pulled out of hole with rods & pump. Top of fill at 7680'. Clean out to 7830' using 9# brine. Pkr set at 7531'. Acidized Lower McKee intervals with 1680 gals 15% HCL-NE-FE, 265 gals 10#/brine w/10 bbls guar gum & 400 bbls rocksalt, 840 gals 15% HCL-NE-FE & 2100 gals TFW for flush. Swbd well. Set RBP at 7604'. Spot 3 bbls 15% HCL-NE-FE acid. Perf Hare Simpson w/1 JSPF at 7479', 86', 93', 98', 7507', 16', 32', 39', 46', 62', 68', 76' & 7582'. Set pkr at 7280'. Swbd well. Acidize w/1100 gals 15% HCL-NE-FE acid. Rel pkr. Land tbg at 7562' w/SN at 7529'. Swbd well. Rel RBP. Fill at 7732'. (98' of fill). Clean out to TD. Set SN at 7556'. OPSMA at 7587'. Tbg anchor at 7339'. Ran producing equipment and place well on test. III

PENNY/1
PENNY/1
DAGGER DRAW - SOUTH DAGGER DRAW PENN - EDDY COUNTY, NEW MEXICO - 75%

AFE NO: 40-61-36:3

PENNY FEDERAL NO. 1 - OBJECTIVE: RECOMPLETE

LOCATION: 660' FSL & 1980' FWL OF SECTION 23, T-20S, R-24E

BEFORE:

EST. COST: \$85,000

TD: 7919'

PERFS: 7696' - 7800'

GL ELEV: 3682'

CSG: 5-1/2" SET AT 7919'

FORMATION: CISCO

TESTED: SHUT-IN 5-1-82

AFTER:

EST. COST: \$31,722

TD: N/C

PERFS: 6676' - 6718'

GL ELEV: N/C

CSG: N/C

FORMATION: WOLF CAMP

TESTED: Flwd 2 F.O., 2 BW &
23 MCF in 24 Hrs on
3-17-83

WORK STARTED: 3-1-83

WORK COMPLETED: 3-9-83

WORK DONE: Load hole with 150 BTFW. Pulled tbg & pkr. Set RBP at 7600'. Perf w/2 JSPF at 6704' - 6718'. Set pkr at 6650'. Acidize Wolfcamp w/1500 gals 15% HCL-NE-FE acid & 1500 gals of TFW. Swbd well. Spot 2 sxs sand on RBP at 7600'. Rel pkr. Set RBP at 6695'. Spot 100 gals acid. Perf w/2 JSPF at 6676' - 6683'. Pkr set at 6547'. Acidize w/800 gals 15% HCL-NE-FE acid & 1600 gals TFW. Swbd well. Kill well w/TFW. Rel RBP and placed well on production. III

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY RECEIVED

OPERATOR'S COPY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

ROSWELL DISTRICT

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR
CONOCO INC.

3. ADDRESS OF OPERATOR
P. O. Box 460, Hobbs, N.M. 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FSL + 1980' FWL
AT TOP PROD. INTERVAL: ✓
AT TOTAL DEPTH: ✓

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other)

☒
☐
☐
☐
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☐
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5. LEASE
NM-045274
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
PENNY FEDERAL
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
UNDESIGNATED WOLFCAMP
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 23, T-20S, R-24E
12. COUNTY OR PARISH
EDDY
13. STATE
NM
14. API NO.
15. ELEVATIONS (SHOW IDF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-331.0.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MIRU ON 6/15/83. SET PKR @ 6665'. TREAT PERFS 6683'-6704' w/46 BBLs 15% HCL-NE-FE. FLUSHED w/2% KCL TFW. REL PKR. FRAC WOLFCAMP 6683'-6704' w/A TOTAL OF 52,950 GALS GEL + 31,000 LBS 20/40 SAND. FLUSHED w/97 BBLs TFW. SWABBED. RAN PRODUCTION EQUIPMENT. TESTED @ 130, 18 RW, + 176 MCF IN 24 HRS ON 6/29/83.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Wm A. Kutter TITLE Administrative Supervisor DATE 7/26/83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

YATES PETROLEUM CORPORATION
BEFORE EXAMINER MORROW
N.M. O.C.D. CASE NO. 10132
DATE: 11/28/90
EXHIBIT NO. 4

*See Instructions on Reverse Side

PAGE 2
HOBBS DIVISION
DAILY DRILLING REPORT
JULY 15, 1983

FINALS ON REMEDIAL WORK

DAGGER DRAW - SOUTH DAGGER DRAW PENN - EDDY COUNTY, NEW MEXICO - 75%
AFE NUMBER: 40-61-3623

PENNY FEDERAL NO. 1 - OBJECTIVE: SAND FRAC

LOCATION: 660 FSL & 1980 FWL OF SECTION 23, T-20S, R-24E

BEFORE:

EST. COST: \$85,000

TD: 7919'

PERFS: 6676' - 6718'

GL ELEV: 3682'

CSG: 5-1/2" SET AT 7919'

FORMATION: WOLFCAMP

TESTED: 2 BO, 2 BW &
23 MCF in 24 hrs

AFTER:

EST. COST: \$78,821

TD: N/C

PERFS: N/C

DF ELEV: N/C

CSG: N/C

FORMATION: N/C

TESTED: PRODUCED 1 BO, 18 BW &
176 MCF in 24 hrs on
6-28-83

WORK STARTED: 6-16-83

WORK COMPLETED: 6-19-83

WORK DONE: Attempt to kill well w/2% KCL TFW w/mutual solvent & filtered through 5 micron filters (55 bbls) would not stay dead. Pmpd 25 bbls 10# filtered brine down tbg. Rel pkr at 6665'. Circ 100 bbls 10# filtered brine wtr down tbg out csg. Set pkr at 6665'. Displace tbg w/2% KCL TFW & filtered. Acidized Wolfcamp perfs 6704'-6683' w/46 bbls 15% HCL-NE-FE acid shooting 30 ballsealers, starting after the first 6 bbls pmpd, 2 ballsealers after each 3 bbls. Flushed w/2% KCL TFW w/mutual solvent & filtered for flush & circ. SI for 1-1/2 hrs. Rel pkr at 6665'. Sand frac Wolfcamp perfs 6704'-6683' w/crosslinked 2% KCL wtr w/25# Halliburton Pur-Set/1000 gals, 5% diesel, 1 gal/1000 gals Halliburton. Frac Low II, 1 gal/1000 gals Adocide Bactericide as follows (A) 20,000 gals pad (B) 9,000 gals crosslinked gel containing 1# gal 20/40 sand (C) 8,000 gals crosslinked gel containing 2#/gal 20/40 sand & (D) 2,000 gals crosslinked gel containing 3#/gal 20/40 sand. Flushed w/97 bbls TFW & filtered. Total gel 52,950 gals & 31,000# sand. Landed tbg at 6665'. Ran producing equipment and place on test. III

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other In-
structions on
reverse side)

5. LEASE IDENTIFICATION NUMBER

NM 045274

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SEP 10 8 47 AM '90

7. UNIT AGREEMENT NAME

CARL

8. AREA OR LEASE NAME

Hill View AHE Federal Com

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Scuth Dagger Draw Upper Penn

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Unit N, Sec. 23-T20S-R24E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. REVER. ☒ Other RECOMPLETION

2. NAME OF OPERATOR

YATES PETROLEUM CORPORATION

3a. Area Code & Phone No.

505/748-1471

3. ADDRESS OF OPERATOR

105 South 4th St., Artesia, NM 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' FSL & 1980' FWL, Sec. 23-20S-24E

At top prod. interval reported below

At total depth

9a. API Well No.

30-015-20426

14. PERMIT NO.

DATE ISSUED

15. DATE RECOMPLETION

7-31-90

16. DATE T.D. REACHED

-

17. DATE COMPL. (Ready to prod.)

8-25-90

18. ELEVATIONS (OF MHD, RT, GI, ETC.)*

3682' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

7936'

21. PLUG. BACK T.D., MD & TVD

7919'

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVAL

DRILLED BY

Pulling Unit

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

7696-7800'; 7655-7666' Canyon

ACCEPTED FOR RECORD

SEP 11 1990

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

None for recompletion

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CASING CEMENTING RECORD	AMOUNT PULLED
8-5/8"	32#	1580'	11"	725 sx (in place)	
5 1/2"	17#	7919'	7-7/8"	400 sx (in place)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	7600'	-

31. PERFORATION RECORD (Interval, size and number)

7696-7800' (existing perfs)
7655-7766' w/12 .40" Holes (1 SPF)
6676-6718' (tested non-productive)

32. ACID, SHOT, FRACTURE CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7696-7800'	w/23000g. 20% NEFE acid.
7655-7666'	w/3000g. 20% NEFE acid.

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)					WELL STATUS (Producing or shut-in)	
8-9-90		Pumping					Producing	
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO	
8-25-90	24	2"	→	89	216	2083	2427	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)		
250	300	→	89	216	2083	41°		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold - Connected to Yates Gas Gathering 8-9-90.

TEST WITNESSED BY

Norbert McCaw

35. LIST OF ATTACHMENTS

None

YATES PETROLEUM CORPORATION
BEFORE EXAMINER MORROW

N.M. O.C.D. CASE NO. 10132

DATE: 11/28/90

EXHIBIT NO. 5

SIGNED: *Granita S. Ladd* TITLE: Production Superv

*(See Instructions and Spaces for Additional Data on Reverse Side)

Yates Petroleum - Hill View "AHE" Fed Com #3 (Unit N) 23-20S-24E

***** Eddy Co., NM *****

7-31-90 Move in and rig up pulling unit. Prep to POH with RBP and packer.

8-2-90 WIH and washed frac, ball sealers, and sand from 6900' to 7600'. Cleaned off top of RBP. latched onto RBP. TOH with RBP and tubing. Rig up wireline and run GR/CCL/CBL. Shut well in overnight. Prep to acidize.

8-3-90 TIH with packer to 7600'. Rig up and acidized perfs 7696-7800' with 23000 gals 20% NEFE acid and scale inhibitor in 3 stages with 1500# Block between each stage. AIR 15 BPM, Max 4000, Avg 3480. ISDP 850, 7 min vacuum. TOH with packer. Rig up wireline. WIH with 4' casing gun and perforated 12 - 1/2" holes from 7655-7666' (1 SPF). Rig down wireline. TIH with RBP and packer. Straddled perfs 7655-7666'. Acidized with 3000 gals 20% NEFE acid, scale inhibitor and ball sealers. AIR 5 BPM, Max 1780, Avg 1000 psi, ISDP 0. Moved tools and astraddles perfs 7655-7800'. Nipple down BOP. Nipple up wellhead. Rig up swab. Initial fluid level 1000'. Swabbed back 125 bbls water, 774 bbls load water to recover. Continue swabbing.

8-4-90 Continue swabbing. Recovered 464 bbls fluid in 24 hours with trace of oil and show of gas. Fluid level at 1800-2000'. 310 bbls load water to recover.

8-5-90 Continue swabbing. Recovered 437 bbls fluid in 24 hours with trace of oil and show of gas. Fluid level 1800-2000'. 127 bbls water overload.

8-6-90 Continue swabbing. Recovered 475 bbls fluid in 24 hours with trace of oil and show of gas. Fluid level at 1800-2000'. Continue swabbing. 602 bbls water overload.

8-7-90 Swab back 75 bbls with rainbow of oil. Final fluid level 1500-1800'. Rig down pulling unit. Prep to run sub pump.

8-8-90 No report.

8-9-90 No report.

8-10-90 No report.

8-11-90 Produced 287 bbls oil and 2576 bbls water. (MCF 60 MCF for Hill View #3 only).

8-12-90 Produced 206 bbls oil and 3451 bbls water. (MCF 601 MCF for Hill View #3 only).

8-13-90 Produced 116 bbls oil and 3050 bbls water. (MCF 710 MCF with TP 210# and CP 300# for Hill View #3 only).

8-14-90 Produced 83 bbls oil, 2396 bbls water. (MCF 352 for #3 only).

COMBINED PRODUCTION WITH HILL VIEW #4:

8-15-90 Produced 179 bbls oil and 2213 bbls water. (MCF 299 for #3 only -- down since midnight).

8-16-90 Down for repairs.

COMBINED PRODUCTION WITH HILL VIEW #2 and #4:

8-17-90 Down for repairs.

8-18-90 Down for repairs.

8-19-90 Produced 159 bbls oil and 3032 bbls water. (MCF 328 for Hill View #3 only).

8-20-90 Produced 242 bbls oil and 3471 bbls water. (MCF 547 with TP 200# for Hill View #3 only).

8-21-90 Produced 253 bbls oil and 4093 bbls water. (MCF 602 MCF with TP 200# for Hill View #3 only).

8-22-90 Produced 63 bbls oil and 820 MCF for Hill View #3 only. Combined water produced = 4307 bbls.

8-23-90 Produced 124 bbls oil, 1960 bbls water and 741 MCF with TP 240# and CP 300#.

PRODUCTION FOR HILLVIEW #3 ONLY:

8-24-90 Produced 83 bbls oil, 2130 bbls water and 741 MCF.

8-25-90 Produced 89 bbls oil, 2083 bbls water and 216 MCF.

8-26-90 Produced 69 bbls oil, 1944 bbls water and 440 MCF.

8-27-90 Shut in. Made 518 MCF.

8-28-90 Shut in. Made 549 MCF.

8-29-90 Shut in. Made 518 MCF.

CDR - RECOMPLETION

Page 2

Yates Petroleum - Hillview "AHE" Fed Com #3 (Unit N) 23-20S-24E Eddy, NM

8-30-90 Produced 141 bbls oil and 2238 bbls water. (MCF 481 for Hill View #3 only).
8-31-90 Produced 157 bbls oil and 2307 bbls water. (MCF 450 for Hill View #3 only).
9-2-90 Produced 3 bbls oil, 539 bbls water. (MCF 372 for Hill View #3 only).
9-3-90 Produced 3 bbls oil and 581 bbls water. (MCF 492 for Hill View #3 only).
9-4-90 Produced 6 bbls oil and 528 bbls water. (MCF 345 for Hill View #3 only).
9-5-90 Produced 6 bbls oil and 484 bbls water. (351 MCF for Hillview #3 only)
9-6-90 Combined oil and water production with Hillview #2: 3 bbls oil and 625 bbls water. MCF 317 on Hillview #3 only.
9-7-90 Produced 3 bbls oil and 522 bbls water. MCF 329 for Hill View #3 only.

TD 7936'; PBTD 7919'. On a 24 hour Official Potential test taken 8-25-90, pumped 89 BOPD, 216 MCFGPD and 2083 BWPD at a GOR of 2427 and Gravity 41 deg, through perfs 7696-7800', 7655-7666' Canyon. WELL ON PRODUCTION. FINAL REPORT.
*Casinghead gas connected to Yates Gas Gathering 8-9-90.

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : HILLVIEW "AHE" FED
 Well : #3
 Sample Pt. : WELLHEAD

Date : 8-28-90
 Date Sampled : 8-23-90
 Analysis No. : 2

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	7.4			
2. H2S	250 PPM			
3. Specific Gravity	1.005			
4. Total Dissolved Solids		4991.7		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	1220.0	HCO3	20.0
12. Chloride	Cl	344.0	Cl	9.7
13. Sulfate	SO4	2000.0	SO4	41.6
14. Calcium	Ca	560.0	Ca	27.9
15. Magnesium	Mg	146.1	Mg	12.0
16. Sodium (calculated)	Na	721.6	Na	31.4
17. Iron	Fe	0.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		2000.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
+-----+	+-----+				
28 *Ca <-----	*HCO3 20	Ca(HCO3)2	81.0	20.0	1621
-----	/----->	CaSO4	68.1	7.9	541
12 *Mg ----->	*SO4 42	CaCl2	55.5		
-----	<-----/	Mg(HCO3)2	73.2		
31 *Na ----->	*Cl 10	MgSO4	60.2	12.0	723
+-----+	+-----+	MgCl2	47.6		
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3 13 mg/L		Na2SO4	71.0	21.7	1540
CaSO4 * 2H2O 2090 mg/L		NaCl	58.4	9.7	567
BaSO4 2.4 mg/L					

REMARKS:

Petrolite Oilfield Chemicals Group

YATES PETROLEUM CORPORATION
 BEFORE EXAMINER MORROW
 N.M. O.C.D. CASE NO. 10132
 DATE: 11/28/90
 EXHIBIT NO. 6



TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WD 1-3500/TWX 910-760-1660/Telex 44-2417

WATER ANALYSIS REPORT

COMPANY Roger C. Hanks ADDRESS Hobbs, N.M. DATE: 6-24-75
 SOURCE Penny Fed. #1 DATE SAMPLED 6-12-75 ANALYSIS NO. 9726
Analysis Mg/L *Meq/L

1. PH	<u>7.5</u>		
2. H ₂ S (Qualitative)	<u>Pos.</u>		
3. Specific Gravity	<u>1.000</u>		
4. Dissolved Solids		<u>6,793</u>	
5. Suspended Solids			
6. Phenolphthalein Alkalinity (CaCO ₃)			
7. Methyl Orange Alkalinity (CaCO ₃)		<u>950</u>	
8. Bicarbonate (HCO ₃)		HCO ₃ <u>1,159</u> ÷ 61	<u>19.0</u> HCO ₃
9. Chlorides (Cl)		Cl <u>1,600</u> ÷ 35.5	<u>45</u> Cl
10. Sulfates (SO ₄)		SO ₄ <u>1,800</u> ÷ 48	<u>38</u> SO ₄
11. Calcium (Ca)		Ca <u>452</u> ÷ 20	<u>23</u> Ca
12. Magnesium (Mg)		Mg <u>73</u> ÷ 12.2	<u>6</u> Mg
13. Total Hardness (CaCO ₃)		<u>1,430</u>	
14. Total Iron (Fe)		<u>4.0 ppm</u>	
15. Barium (Qualitative)			
16.			

* Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04		19		1,539
Ca SO ₄	68.07		4		272
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		6		361
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		28		1,988
Na Cl	58.46		45		2,633

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

REMARKS Hanks - ConeCC (3) Saltzman - Worsham - Nix - FileRespectfully submitted
TRETOLITE COMPANY

Ray Shaffner