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NEW MEXICO OIL CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form C-105
Revised 1-1-65

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: OG-4886

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

6. Unit Agreement Name: --

2. Name of Operator: Read & Stevens, Inc.

8. Farm or Lease Name: Wainoco State

3. Address of Operator: P. O. Box 1518, Roswell, New Mexico 88201

9. Well No.: 2

4. Location of Well: UNIT LETTER H LOCATED 1980 FEET FROM THE North LINE AND 660 FEET FROM

10. Field and Pool, or Wildcat: Quail Queen

THE East LINE OF SEC. 11 TWP. 19-S RGE. 34-E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
6-10-79	6-23-79	11-1-79	3966.5' GR - 3977' RKB	--

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By: Rotary Tools	Cable Tools
6200'	5819'	--	0' - 6200'	None

24. Producing Interval(s), of This Completion - Top, Bottom, Name

5036' - 5046', 5066' - 5073', 5530' - 5536', 5558' - 5588', 5608' - 5626', 5654' - 5662', 5664' - 5672', 5704' - 5742' Queen

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run

GR - CNL - FDC & DLL - MLL - GR

27. Was Well Cored: Yes

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	1849'	11"	725 sx. Class C - circ.	None
4 1/2"	10.5#	5882'	7 7/8"	700 sx. Class C Pozmix	None

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8"	5742'	5708' seat. nipple

28. Perforation Record (Interval, size and number)

5036'-46' (.33) 20 holes
5066'-73' (.33) 14 holes
5530'-36' (.33) 12 holes
5558'-88' (.33) 30 holes
5608'-26' (.33) 18 holes
5654'-62' (.33) 8 holes
5664'-72' (.33) 8 holes
5704'-42' (.33) 76 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
See attached schedule	

PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
7-9-79	Pumping - 2" x 1½" x 16' RWBC pump	Producing

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
11-1-79	24	--	→	41	30	12 load	732-1

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
--	--	→	41	30	12 load	33°

30. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold

Test Witnessed By: Dan Lough

31. List of Attachments: Two copies of logs, deviation survey, core analysis and description.

32. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED John Anderson Jr. TITLE Agent DATE 11-2-79

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 35 through 39 shall be completed for each zone. This form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 1846' (+2131)	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt 1974' (+2003)	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt 3300' (+677)	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 3582' (+395)	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen 4714' (-737)	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg 5348' (-1371)	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Qtzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Granite	T. Todilto	T.
T. Drinkard	T. Delaware Sand	T. Entrada	T.
T. Abo	T. Bone Springs	T. Wingate	T.
T. Wolfcamp	T.	T. Chinle	T.
T. Penn.	T	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from 5036' to 5046' No. 4, from 5558' to 5742'

No. 2, from 5066' to 5073' No. 5, from ..... to .....

No. 3, from 5530' to 5536' No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0'	1846'	1846'	Red beds				
1846'	1974'	128'	Anhydrite				
1974'	3300'	1326'	Salt				
3300'	3582'	282'	Anhy. & dolomite				
3582'	4714'	1132'	Anhy., dolo., sand & shale				
4714'	5348'	634'	Sand, dolo., anhy. & shale				
5348'	6200'	852'	Dolomite & sand.				

No DST were taken on this well, Shot 63 sidewall cores and recovered 36 cores.

RECEIVED

NOV - 7 1979

O.C.D. HOBBS, OFFICE

Read & Stevens, Inc. #2 Wainoco State

32. Acid, Shot, Fracture, Cement Squeeze, etc.

5704' - 5742' - 4000 gals. 15% NE acid.

5704' - 5742' - 30,000 gals. gelled 2% KCL water & 35,000 gals. 20/40 sand.

5654' - 5672' incl. - 1,000 gals. 15% NE acid.

5558' - 5626' incl. - 1,000 gals. 15% NE acid.

5558' - 5672' incl. - 45,680 gals. gelled water & 40,000# 20/40 sand & 10,000# 10/20 sand.

5530' - 5536' - attempted to acidize w/15% NE acid, communicated.

5036' - 5073' - 1,000 gals. 15% NE acid.

5036' - 5073' - 23,500 gals. gelled water & 22,000# 20/40 sand.

KENNETH D. REYNOLDS - ARTESIA
LESLIE K. EVERTSON - ROSWELL

WEK DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. Box 2055 ROSWELL, NEW MEXICO 8820
TELEPHONES: ARTESIA 505/746-675
ROSWELL 505/623-507

June 26, 1979

Read & Stevens
P.O. Box 1518
Roswell, New Mexico 88201

Re: Wainoco State #2

Gentlemen:

The following is a Deviation Survey of the above well located in Lea County, New Mexico.

451' - 1/4°	3496' - 1 1/4°
932' - 3/4°	3980' - 1 1/4°
1220' - 3/4°	4480' - 1°
1516' - 3/4°	4787' - 1°
1855' - 3/4°	5259' - 1°
2050' - 3/4°	5758' - 3/4°
2550' - 1°	6200' - 3/4° T.D.
3003' - 1°	

Yours very truly,

WEK DRILLING CO., INC.

Arnold Newkirk

STATE OF NEW MEXICO)
)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 26th day of June, 1979 by Arnold Newkirk.

My Commission Expires:

4/28/82

Lana Beth Stevenson
Notary Public

All Points, Inc.

WELL No. 2 Mainoco State COUNTY Lea STATE New Mexico

COMPANY Read & Stevens Inc. DATE June 25-26 1979

FIELD Quail Queen TYPE CORES Sidewalls ANALYST J.L. Thorp

ANALYSIS DATA AND INTERPRETATIONS

DEPTH	PERMEABILITY MILLIDARCYS VERT	PERMEABILITY MILLIDARCYS HORIZ	COMB GAS UNITS	GAS BY VOLUME %	OIL BY VOLUME %	POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROB PROD	CORE DESCRIPTION
3,997		0.0	0	4.6	trace	14.9	69.1	trace	none	85% shale firm reddish brn no fluor 15% lime firm fine grain sandy friable mineral fluor
3,999		1.1	0	3.6	trace	16.4	59.8	trace	low perm	Shale firm brn-lt gry no odor min fluor
3,996			0							1 frag dolo calcaline hd dense shly calcaline reddish brn no odor
4,031			0							1 small frag anhydrite pink no odor no fluor
4,032			0							Shale soft argil brn no odor no fl
4,041			0							Anhy clear-lt pink no odor min fl
4,756		15.1	0	5.7	0.0	17.1	63.1	2.9	oil	Sd soft vfg silty shly gry str s fluor 2 small anhy frags
4,758		1.8	0	2.6	1.7	15.9	12.9	10.7	oil	25% sd firm vfg silty very shly oil odor strks fluor 75% sdy shale brown oil odor
4,759		26.7	0	4.6	0.0	21.3	78.4	0.0	water	Sd firm vfg brn calc no odor no fl
4,760		6.4	0	5.2	0.0	16.9	69.2	0.0	water	Siltstone hd lt brn-tan very calc no odor no fluor
4,761		1.4	0	4.6	0.0	15.9	71.1	0.0	low perm	Siltstone firm brn very calc no odor no fluor
4,980		6.1	0	8.9	0.6	17.2	44.8	3.5	low perm oil	Sd firm-hd vfg silty shly gray very calc oil odor strk lt yell fl
4,981		1.1	0	4.5	trace	14.3	69.2	trace	low perm	Sand as above no odor no fluor
4,985		12.9	10	9.5	2.4	19.8	50.0	12.1	oil	Sd fm-hd vfg silty lt gray calc oil odor solid lt yell fluor
4,986		9.8	10	9.0	1.8	17.3	37.6	10.4	oil	75% sand as above 25% sandy shale no fluor
4,987		5.6	0	6.5	0.6	18.9	59.8	4.2	oil	Sd firm-hd vfg silty very shly oil odor gray solid yell flur in clear sand
4,988		3.4	0	8.1	0.0	16.1	90.0	0.0	low perm	Sd firm vfg silty lt gry-gry calc very faint gas odor no fluor
4,989		2.8	0	3.4	0.0	14.9	71.2	0.0	low perm	Sd soft-firm vfg silty very shly gray sli calc no odor no fluor
4,994										No recovery
4,995		3.0	0	3.3	0.0	15.9	66.7	0.0	low perm	Sd firm vfg silty shly gray calc no odor no fluor
4,996		2.6	0	6.8	0.0	17.6	61.4	3.0	low perm	As above
5,037		15.9	0	4.9	1.8	20.1	56.7	9.0	oil	Sd firm vfg silty gray-tan oil odor solid yellow fluor
5,038		no test	0	5.8	3.6	20.8	22.6	77.6	oil	As above calcareous
5,039		16.3	1	9.7	3.8	20.9	38.1	15.9	oil	As above calcareous

All Points, Inc.

WELL No. 2 Malnoco State COUNTY Lea STATE New Mexico

COMPANY Read & Stevens Inc. DATE June 25-26 1979

FIELD Quail Queen TYPE CORES Sidewalls ANALYST J.L. Thorp

ANALYSIS DATA AND INTERPRETATIONS

DEPTH	PERMEABILITY MILLIDARCYS VERT	PERMEABILITY MILLIDARCYS HORIZ	COMB GAS UNITS	GAS BY VOLUME %	OIL BY VOLUME %	POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROB PROD	CORE DESCRIPTION
5,040a										No recovery
5,040b		18.0	10	9.0	1.8	18.1	40.3	10.0	oil	Sd firm vfg silty shly gray sli calc oil odor solid faint fluor
5,041		1.9	0	7.9	trace	16.7	52.7	trace	low perm	Sd firm-hd vfg silty very shly very calc gray 2 small spots fluor
5,042			0							Sd frags as above no odor no fluor
5,067		8.9	5	6.8	1.1	16.4	51.8	6.7	oil	Sd firm-hd vfg silty very shly gray calc oil odor spotted fluor
5,067½		10.4	5	4.5	3.7	17.2	60.0	21.5	oil	Sd firm-hd vfg gray sli calc oil odor solid lt yellow fluor
5,068		0.9	0	3.0	trace	16.1	81.4	trace	low perm	Sd soft-firm vfg silty very shly gray no odor scrks faint fluor
5,069			0							Sd frags as above calc no odor no fluor
5,070										No recovery
5,167a										No recovery
5,167b		3.1	0	3.7	trace	16.3	77.3	trace	low perm	Sd firm-hd vfg silty very shly gray calc oil odor spotted flur
5,168										No recovery
5,531										No recovery
5,532a		12.3	0	9.3	2.1	19.6	41.8	10.7	oil	Sd firm vfg silty shly lt gray-tan very calc oil odor solid flur in sand
5,532b		6.2	0	9.5	1.8	18.9	38.6	9.5	oil	Sd hd vfg silty shly gray-lt gray oil odor spotted fluor
5,532½			0							1 small shale frag brown calc 1 small anhydrite frag no odor no fluor
5,533			0		1.8					Sand fragments as above
5,713										No recovery
5,730½										No recovery
5,732		no test	0	6.5	1.6	12.2	27.9	13.1	poss oil	Dolo hd dense xtaline gray-tan not calc oil odor solid yell flur
5,786										No recovery

George R. Reddy

Consulting Geologist
Bus. (505) 623-6233
Res. (505) 623-3767

P. O. Box 778
200 West First Street
Roswell, New Mexico 88201

June 27, 1979

READ & STEVENS, INC.
Wainoco State #2

Sec. 11, T 19S, R 34E
Lea County, NM

Sidewall Core Descriptions Run I

Depth	
5786	NR
5732	1/8" Rec, Dolo, gray, F-MX, F Sucrosic, Vugular Ø, Stain, Fluor
5730½	NR
5713	NR, MF
5533	Small pieces, SS. gray, VF-F, A, well srtd, Fria, Stain & Fluor
5532	¼" Rec, SS, gray, VF-F, A, well srtd, fria, Sli more indur, Stain & Fluor
5531	NR, MF
5168	NR
5167	NR
5070	NR
5069	Small pieces, SS, gray, FG, SR-SA, Tr Stain & Fluor
5068	½ " Rec, SS, gray, clean, FG, SR, N.S.
5067½	1" Rec, SS, gray, VFG, well srtd, looks shaley, scat stain & Fluor
5042	Small pieces, SS, gray, FG, clean, unconsol, Tr Stain & Fluor
5041	¼ " Rec, SS, Dk gray, VF-FG, SR, argill, Tr Stain & Fluor
5040	NR, MF
5039	¼ " Rec, SS, Dk gray, VF-FG, SR, stain & Fluor
5038	Small pieces, SS, gray, FG-MG, SA, Clean, oil stain & Fluor
5037	1 " Rec, SS, gray, FG, SA, fairly clean, good stain & Fluor
4996	Broken ½" Rec, SS, gray, MG, SR-SA, clean, Tr Stain & Fluor
4995	Broken ½" Rec, SS, gray, AA, Tr Fluor
4994	NR, MF
4989	½" Rec, SS, gray, VFG, Sli argil, Tr Fluor & Stain
4988	3/4 " Rec, SS, lt gray, VFG, well srtd, Anhy cmt, Tr Stain & Fluor
4987	3/4 " Rec, SS, AA, streaks oil stain & Fluor

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June 27, 1979

READ & STEVENS, INC.
Wainoco State #2

Sec. 11, T 19S, R 34E
Lea County, NM

Sidewall Core Descriptions Run II

Depth	
5532½	NR
5532	3/4 " Rec, SS, gray, FG, clean, well srtd, SA-SR, Tr Stain, good Fluor
5169	NR
5168	NR
5167	1¼ " Rec, SS, gray, FG, SA, Sli argill, N.S.
5067	1 " Rec, SS, gray, FG, SA, Sli argill, scat stain & Fluor
5040	¼" Rec, SS, gray, F-MG, well srtd, oil stain & Fluor
4986	3/4" Rec, SS, gray, FG, SA-A, clean, Stain & Fluor
4985	1" Rec, SS, gray, F-MG, clean, Stain & Fluor
4981	½ " Rec, SS, gray, F-MG, argill, Tr Stain & Fluor
4980	½" Rec, SS, gray, FG-MG, SR-SA, Anhy, Tr Stain & Fluor
4761	½" Rec, Broken, SS, Red, VFG, V/argill, anhy, Sli Stain & Fluor
4760	1 " Rec, SS, Tan-Red, VFG, V/argill, anhy, N.S.
4759	½" Rec, Broken, SS, AA, cleaner, N.S.
4758	1" Rec, SS, FG, V/Anhy, scat tr Stain & Fluor
4757	NR
4756	NR
4641	NR
4032	NR
4031	NR
4022	NR
3996	NR
3995	NR
3957	NR
3956	NR

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June 27, 1979

READ & STEVENS, INC.
Wainoco State #2

Sec. 11, T 19S, R 34E
Lea County, NM

Sidewall Core Descriptions Run III

Depth	
5532½	Broken piece, Red clay, contam
5169	NR, BB
5168	NR, EB
4757	NR, MF
4756	Broken Piece, Anhy, White, x'll, Sli Dolo
4641	Small piece, Gypsum
4032	3/4 " Rec. Clay, Red
4031	Small piece, pink gypsum
4022	NR, EB
3996	Small piece, Red gypsum
3995	1¼ " Rec, Shale, greenish gray, w/Anhy incl, Tr Fluor (Contamination ?)
3957	1" Rec, Clay, red
3956	NR, MB