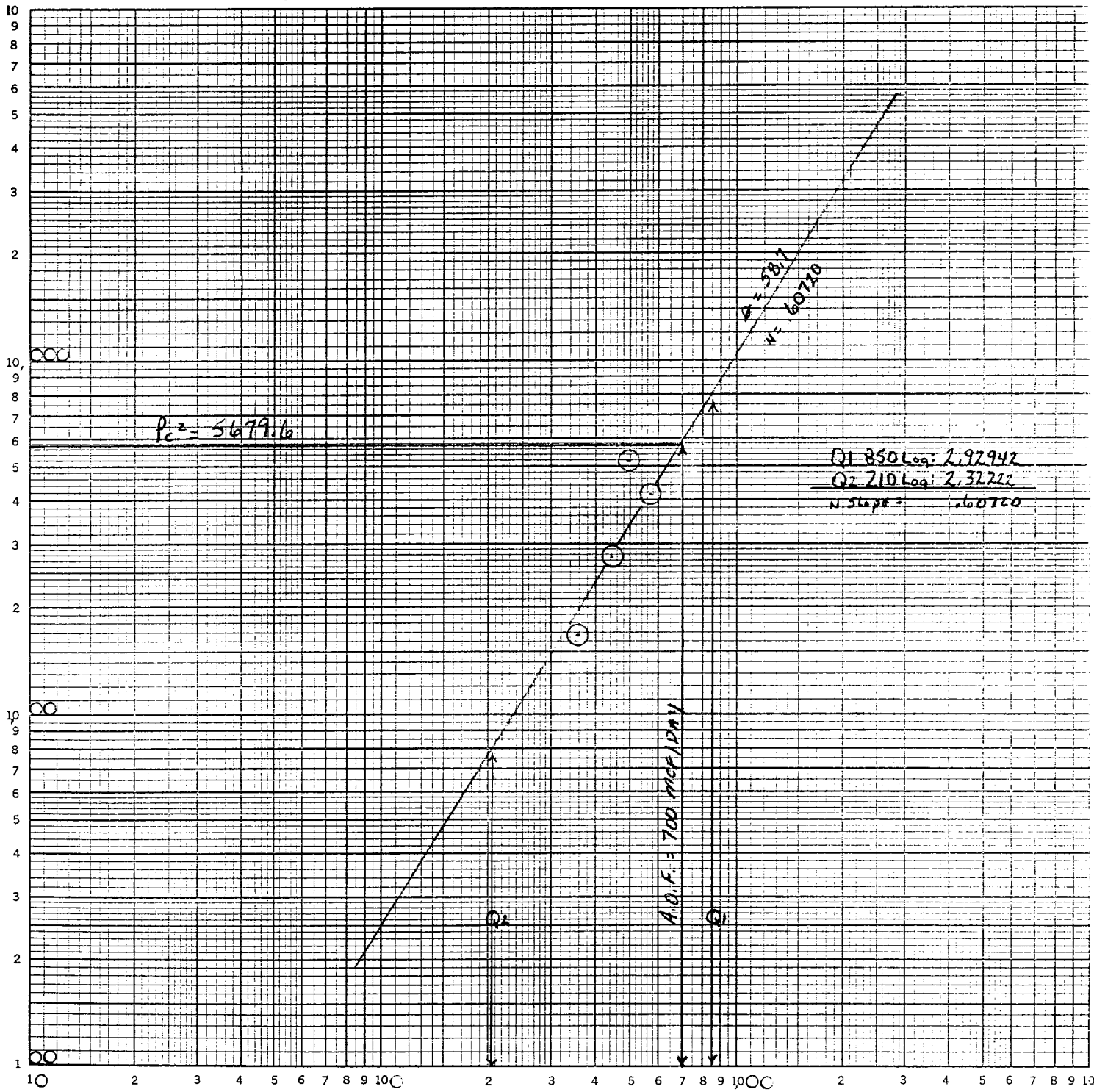


READ & STEVENS
 Mark Federal, Well # 7
 3-20S-34E
 Lea County, New Mexico
 12-23-94

$P_c^2 - P_w^2$ (thousands) 46 7400

K*E LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



Q MCF/DAY

O COMPANY : READ & STEVENS		LEASE : MARK FED.		WELL NO. : 7		PC2 = 2383.2		PC2 = 5679.6	
UNIT :		SECTION : 3		TOWNSHIP : 20					
L : 13164		H : 13164		L/H : 1		G/GMIX : 0.720		Pt2 = 4012.8 Pw = 2004.4	
%CO2 : 5.55		%N2 : 0.45		H2S :					
d : 1.997		Fr : 0.018183		GH : 9478.1		RANGE : 34		1545.5 1248.4	
								494.5 710.7	
VOL 1 : 359		PSIA 1 : 2003.2		RESV.TEMP 192.0		PC2-Pw2= 1662.1		Pw2 = 4017.6	
VOL 2 : 444		PSIA 2 : 1713.2				2737.2		2942.4	
VOL 3 : 576		PSIA 3 : 1243.2		SHUT-IN PR= 2383.2		4121.1		1558.6	
VOL 4 : 493		PSIA 4 : 703.2				5174.6		505.1	
		PCR : 689				n = 0.607			
		TCR : 389							
						PC2/(PC2-Pw2) =		3.417	
								2.075	
								1.3781	
								1.098	
LINE		RATE 1		RATE 2		RATE 3		RATE 4	
		'1ST		'2ND		'1ST		'2ND	
1 QM		0.359	0.359	0.444	0.444	0.576	0.576	0.493	0.493
2 TM		534	534	534	534	534	534	534	534
3 Ts		652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
4 T		593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
PR (est)		2.91		2.49		1.80		1.02	
5 Z(est)		0.773	0.767	0.786	0.770	0.824	0.800	0.884	0.866
6 TZ		458.3	454.6	466.3	456.4	488.5	474.2	524.3	513.8
7 GH/TZ		20.683	20.848	20.325	20.767	19.402	19.988	18.078	18.448
8 eS		2.172	2.185	2.143	2.179	2.070	2.116	1.970	1.997
9 l-e-S		0.540	0.542	0.533	0.541	0.517	0.527	0.492	0.499
10 Pt		2003.2	2003.2	1713.2	1713.2	1243.2	1243.2	703.2	703.2
11 Pt2 /1000		4012.8	4012.8	2935.1	2935.1	1545.5	1545.5	494.5	494.5
12 Fr		0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183	0.018183
13 Fc=FrTZ		8.333	8.267	8.479	8.299	8.883	8.622	9.533	9.342
14 FcQm		2.99	2.97	3.76	3.68	5.12	4.97	4.70	4.61
15 L/H(FcQm)		8.9	8.8	14.2	13.6	26.2	24.7	22.1	21.2
16 Fw		4.828589	4.777467	7.559892	7.345847	13.53273	13.00929	10.87504	10.591590
17 Pw2		4017.6	4017.6	2942.6	2942.4	1559.1	1558.6	505.4	505.1
18 Ps2		8725.9	8780.0	6305.9	6410.8	3227.3	3298.0	995.5	1008.8
19 Ps		2954.0	2963.1	2511.2	2531.9	1796.5	1816.0	997.7	1004.4
20 P		2478.6	2483.2	2112.2	2122.6	1519.8	1529.6	850.5	853.8
21 Pr		3.60	3.60	3.07	3.08	2.21	2.22	1.23	1.24
22 Tr		1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
23 Z		0.767	0.767	0.770	0.769	0.800	0.799	0.866	0.866

RECEIVED

DEC 30 1994

OCD HOBBY
OFFICE

Equivalent Diameter Program

Author: Bob Murray

Date: December 26, 1990

L1 =	13095 ft.	L5 =	0 ft.	Lt =	13164 ft.
D1 =	1.995 in.	D5 =	1 in.	C =	0.10797

L2 =	69 ft.	L6 =	0 ft.		
D2 =	4.892 in.	D6 =	1 in.	Deff =	1.997 in.

L3 =	0 ft.	L7 =	0 ft.	Fr =	0.01773
D3 =	1 in.	D7 =	1 in.		

L4 =	0 ft.	L8 =	0 ft.		
D4 =	1 in.	D8 =	1 in.		

Laboratory Services, Inc.

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Pro Well Testing & Wireline
Attention: Mr. Floyd Davis
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE

IDENTIFICATION: Mark Fed. #7

COMPANY: Read & Stevens

LEASE:

PLANT:

SAMPLE DATA: DATE SAMPLED: 12-27-94
 ANALYSIS DATE: 12-28-94
 PRESSURE - PSIG 350.00
 SAMPLE TEMP. °F 58.00
 ATMOS. TEMP. °F

GAS (XX) LIQUID ()
 SAMPLED BY: Floyd Davis-Pro Well
 ANALYSIS BY: Rolland Perry

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM	
Hydrogen Sulfide (H2S)			
Nitrogen (N2)	0.45		
Carbon Dioxide (CO2)	5.55		
Methane (C1)	80.29		
Ethane (C2)	7.95	2.121	
Propane (C3)	3.56	0.978	
I-Butane (IC4)	0.39	0.126	
N-Butane (NC4)	1.00	0.315	
I-Pentane (IC5)	0.21	0.077	
N-Pentane (NC5)	0.23	0.082	
Hexane Plus (C6)	0.37	0.153	
	100.00	3.852	
BTU/CU.FT. - DRY	1122	MOLECULAR WT.	20.8502
AT 14.650 DRY	1118		
AT 14.650 WET	1099		
AT 14.73 DRY	1124		
AT 14.73 WET	1105		
SPECIFIC GRAVITY -			
CALCULATED	0.720		
MEASURED			

RECEIVED

DEC 30 1994

OCD HOBB
OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Read & Stevens, Inc.

3. Address and Telephone No.

P. O. Box 1518, Roswell, New Mexico 88202-1518 505-622-3770

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1650' F52 & 1980' FEL

Section 3 T20S-R34E

5. Lease Designation and Serial No.

NM-54432

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Mark Federal #7

9. API Well No.

30-025-32153

10. Field and Pool, or Exploratory Area

North Lea Penn 50040

11. County or Parish, State

Lea County, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☐
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- ☐
- Abandonment
-
- ☐
- Recompletion
-
- ☐
- Plugging Back
-
- ☐
- Casing Repair
-
- ☐
- Altering Casing
-
- ☒
- Other
- Drlg, cem & csg

- ☐
- Change of Plans
-
- ☐
- New Construction
-
- ☐
- Non-Routine Fracturing
-
- ☐
- Water Shut-Off
-
- ☐
- Conversion to Injection
-
- ☐
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)*

Spud 17 1/2" hole on September 16, 1994, & TD @ 1,577'. Run 42 jts of 13 3/8" 54# J-55 csg & set @ 1,577'. Cmt w/ 1,100 sx of Lite plus 200 sx of Class "C" & additives. Circulate cmt to surface. WOC & NUWH & BOP. Drill 11" hole to 5,010'. Run 115 jts of 8 5/8" 32# J-55 & S-80 csg & set @ 5,010'. DV tool @ 3,789'. Cmt 1st stage w/ 400 sx of Class "C", cmt 2nd stage w/ 1,100 sx of Lite cmt plus 250 sx of Class "C" cmt. Circulate cmt to surface. NUWH & BOP after WOC. Test csg to 1,000 psi, OK. Test BOP & wellhead equipment to rated working pressure, tested OK. Continue drilling 7 7/8" hole.

ACCEPTED FOR RECORD

NOV 8 1994

SJS

CARLSBAD, NEW MEXICO

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

Signed

John C. Maxey, Jr.

Title Petroleum Engineer

Date October 17, 1994

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any: