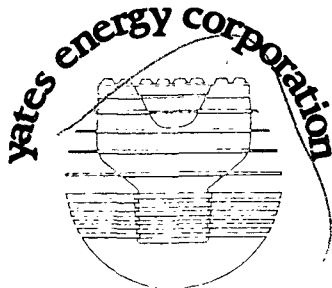


OIL CONSERVATION DIVISION
RECEIVED

'90 OCT 16 AM 9 02



October 15, 1990

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attention: David R. Catanach

Re: Desert Rose Federal #1
1740' FSL & 660' FEL
Section 27-23S-23E
Eddy County, NM

Gentlemen:

Administrative approval for dual completion of the referenced well is hereby respectfully requested. Plans for completion of the well are to produce dry sweet gas from the Morrow perforations from 9,880' - 9,900', 9,975' - 77', 9,986' - 92', 10,010' - 16' and 10,027' - 28' up the 2 3/8" tubing and to produce the Strawn dry sweet gas from the perforations from 8,772' - 8,790' and 8,808' - 8,816' up the 4 1/2" casing annulus. The two producing intervals will be isolated from each other with a packer. Well bore diagrammatic sketches of the before and after installation procedure are attached (Attachment "A" and "A-1").

The well is currently producing from the Strawn intervals 8,772'-8,790' and 8,808' - 8,816'. A Baker Lok-set packer is currently set at 9,850', with a retrievable bridge plug set at 9,206', isolating the Strawn from the Morrow. The Morrow was originally perforated and treated in the "A" zone 9,880' - 9,900' and "C & D" zones 9,975' - 77', 9,986' - 92', 10,010' - 16' and 10,027' - 28', however, production from the Morrow zones was marginal and have not been produced. A copy of the original Well Completion Report is submitted as Attachment "B", with copies of the Strawn and Morrow zones electric logs.

Attachment "C" is our proposed Dual Completion Procedure. We propose to kill the Strawn and remove the bridge plug, then install a single string completion assembly to permit dual production, as per Attachment "A-1".

Attachment "D" is a copy of the bottom hole pressure report on the Strawn zone dated 4/23/90 and bottom hole pressure report on the Morrow Zone taken during a DST. Upon completion of the dual attempt, this report will be accurately measured in each zone and submitted to the NMOCD.

Attachment "E" is a production decline curve for the Strawn zone.

New Mexico Oil Conservation Division
 David R. Catanach
 October 15, 1990
 Page 2

Attachment "F" is a 24 hour productivity test for the Strawn zone submitted on Division Form C-116. Upon completion of the dual attempt, this test will be taken on each zone and the C-116 submitted to the NMOCD.

Attachment "G" is a plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases. Please be advised that the production in the Strawn and Morrow zones is commonly owned.

Attachment "H" are copies of correspondence sent to the only offset operator (OXY U.S.A., Inc.) and the United States Bureau of Land Management notifying them in writing of the proposed dual completion.

It is our opinion that approval of this request will prevent waste and protect correlative rights.

Yates Energy Corporation is greatly concerned that drainage damage will occur to the captioned property when the recently completed OXY U.S.A., Inc. Federal "AK" #1 well located 660' FNL & 1450' FEL of Section 34-23S-23E commences production at an estimated rate of 4,000 MCFGPD. Therefore, your immediate attention and approval of this request is appreciated. Should additional information be required, please contact the undersigned.

Yours very truly,

YATES ENERGY CORPORATION

Sharon R. Hamilton
 Sharon R. Hamilton
 Landman

SRH/jj
 Enclosures
 cc: 2 copies OCD
 Artesia, NM

1 copy BLM
 Carlsbad, NM

	<u>days</u>	<u>H₂O</u>	<u>Cond</u>	<u>Gas</u>
Jan.	31 days	27	147	49344
Feb.	28	15	580	0
March	5	3	10	5911

Strawn Production

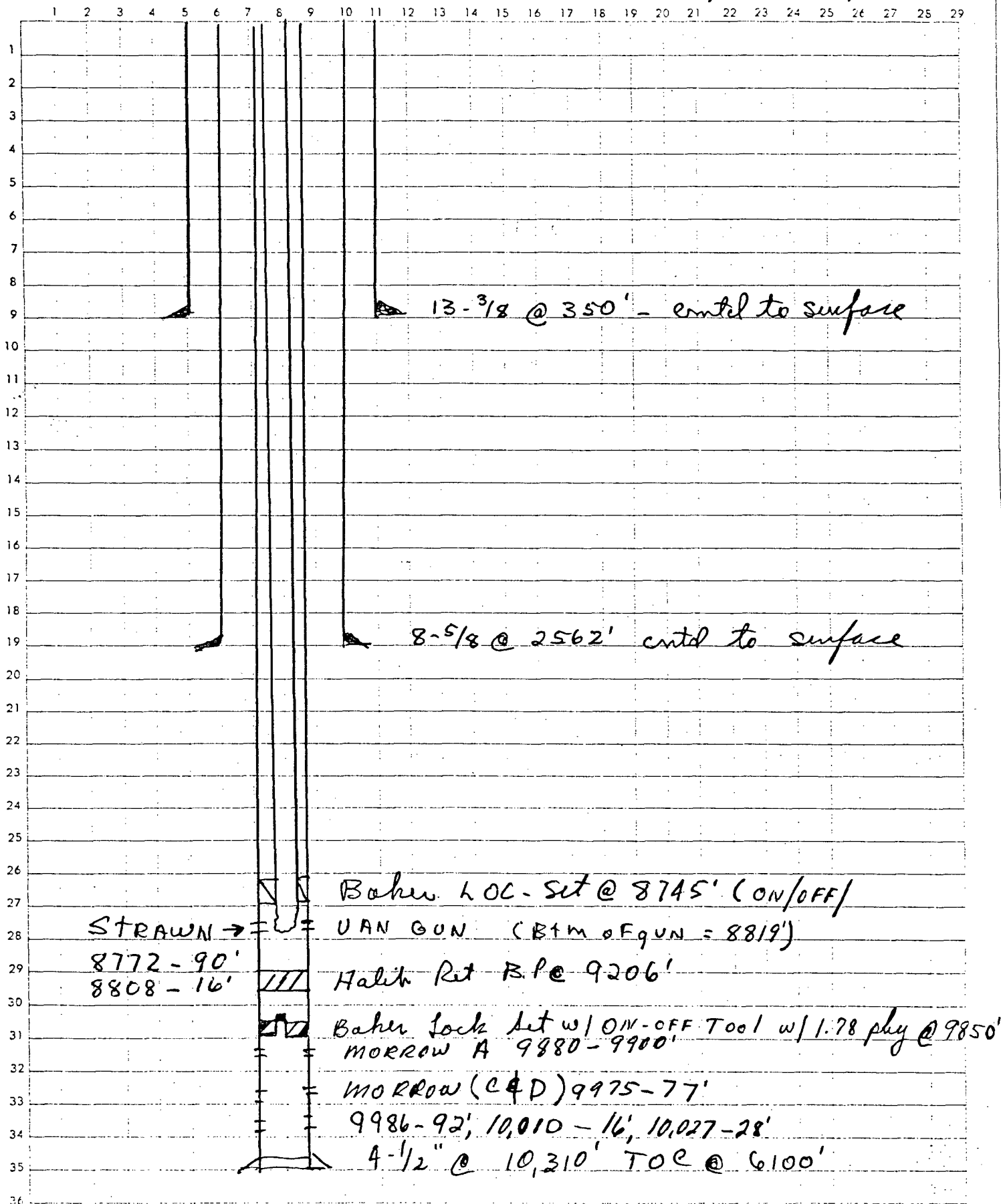
	<u>days</u>	<u>H₂O</u>	<u>Gas</u>	<u>Cond</u>
April 1990	6	2	1032733	
May 1990	5	1	5351	2
June 1990	6	3	6916	21
July 1990	5	1	4685	6
Aug 1990	0	0	0	0



Desert Rose Federal No. 1

LSE NM: 37843

See 27, T-23-S, R-23-E

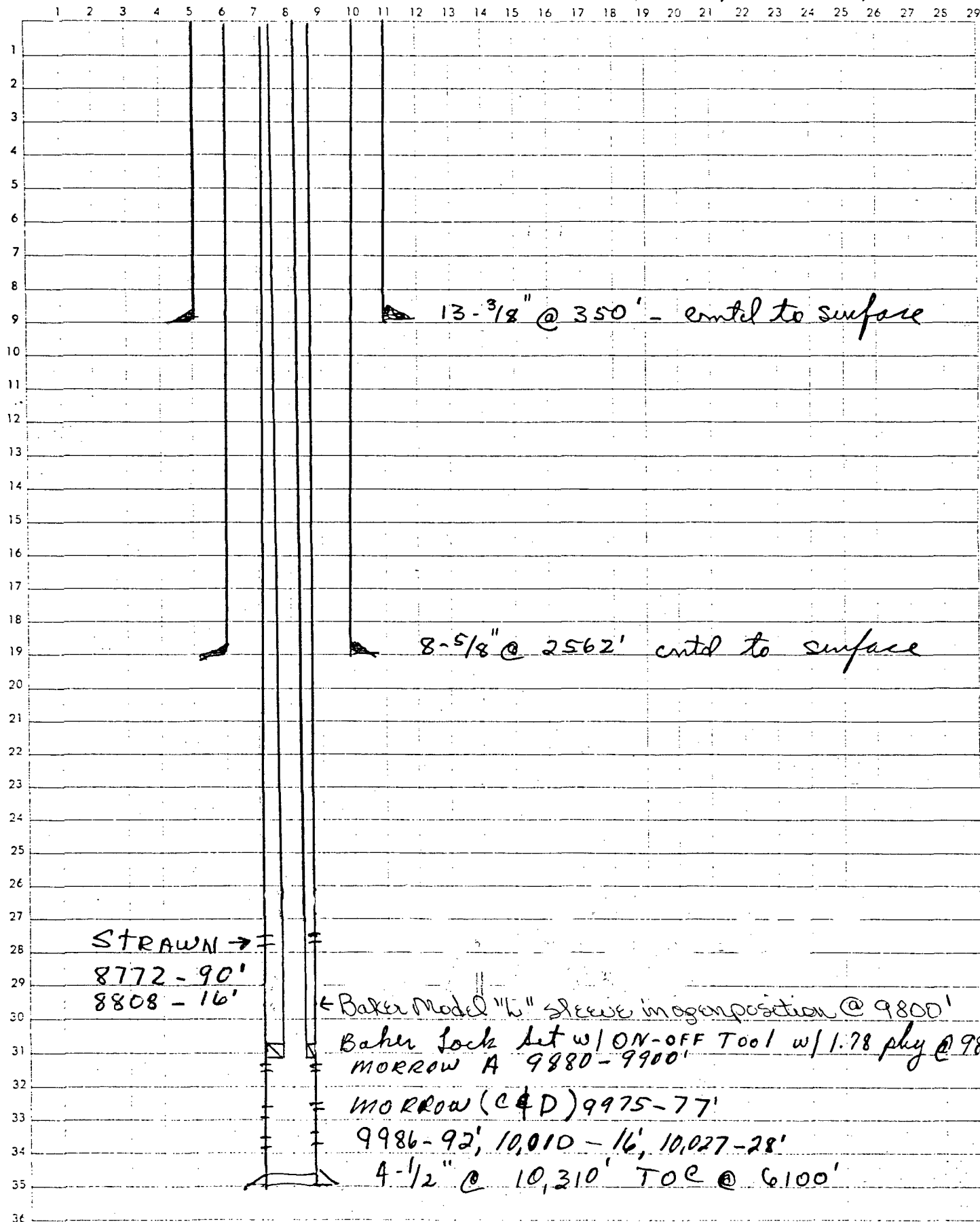




Desert Rose Federal No. 1

LSE NM: 37843

See 27, T-23-S, R-23-E



DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Attachment "B"
NEW OIL CONVEYANCE FORM
SUBMIT IN DRAWER DD
(See Instructions on Reverse Side)
CONFIDENTIAL

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

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. REGR. ☐ Other ☐

2. NAME OF OPERATOR
YATES ENERGY CORPORATION

3. ADDRESS OF OPERATOR
P.O. Box 2323, Roswell, New Mexico 88202-2323

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1740' FSL & 660' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 9-3-89 16. DATE T.D. REACHED 10-3-89 17. DATE COMPL. (Ready to prod.) 11-9-89 18. ELEVATIONS (DF, HKB, RT, GR, ETC.)* 4210' GR

20. TOTAL DEPTH, MD & TVD 10,310' 21. PLUG BACK T.D., MD & TVD 10236' (RBP 9206' w/1 sx. sand on top) 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY all

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 8772'-8816' (Strawn)

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-CNL-LDT; DLL w/MSFL

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FULLED
13 3/8"	54.5#	350'	17 1/2"	425 sxs. Premium plus	---
8 5/8"	32# & 24#	2,562'	12 1/4"	1,000 sxs. HLW & 275 Premium Plus	---
4 1/2"	11.6#	10,310'	7 7/8"	1,200 sxs. class "H"	---

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	8819'	8748'

31. PERFORATION RECORD (Interval, size and number)
See attachment
Adm
DEC 12 1989

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
see attachment for details	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11-15-89		flowing				SI	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-15-89	24 hr	--	→	0	1606	0	---
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2380 psig	pkp	→	0	1606	0	---	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
vented
TEST WITNESSED BY
Bennett-Cathey

35. LIST OF ATTACHMENTS

Logs, Deviation Survey, DST Summary, Perforation Record w/treatment detail

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Sharon B. Hamilton TITLE Landman DATE 12/6/89

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Wolfcamp Morrow Morrow	7,600' 9,980' 9,964'	7,700' 9,929' 10,038'	See attachments for complete details

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Wolfcamp	7,022'	
Lower Wolfcamp	7,600'	
Cisco	8,066'	
Canyon	8,400'	
Strawn	8,631'	
Lower Strawn	8,876'	
Atoka	9,139'	
Morrow	9,694'	
Morrow		
Clastics	9,874'	
Lower Morrow	10,045'	

DESERT ROSE FEDERAL #1

31. Perforation Record

9880'-9900' 2 SPF (0.42") Total holes: 40
9975'-9977', 9986'-9992', 10010'-10016' and 10027'-10028' 4 shots
@ each interval
(0.42") Total holes: 16
8772'-8790' 3 SPF (0.42") Total holes: 36
8808'-8816' 3 SPF (0.42") Total holes: 30

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

<u>Depth Interval</u>	<u>Amount & Kind of Material Used</u>
9880'-9900'	250 gals. 10% acetic, 4,000 gals. 7.5% MS acid, 18,300 gals. Versagel 1500, 4,000 gals. CO2 plus 18,000# 20/40 Interprep.
9975'-10028'	250 gals. 10% acetic, 4,000 gals. 7.5% MS acid
8772'-8816'	Completed Natural

September 22, 1989

Yates Energy Corp.
DST NO. 1 7600' - 7700' (90')
(Wolfcamp)

INITIAL FLOW: 5 minutes: Open tool, in 1 minute had 0.33 psig, at end of 5 minutes had 1.19 psig.

INITIAL SHUT-IN: 60 minutes.

FINAL FLOW: 60 minutes: Open tool, in 5 minutes had 3.66 psig, at the end of 60 minutes had 6.48 psig.

FINAL SHUT-IN: 225 minutes.

DRILL PIPE RECOVERY:

Recovered approximately 120' of drilling mud, no gas to surface, or smell.

SAMPLE CHAMBER RECOVERY:

Recovered 22.7 cu.ft. of gas, no oil, no water, 2350 psig.

PRESSURES

FIELD

INITIAL FLOW (5")	83 -	96 psig
INITIAL SHUT-IN (60")	788	psig
FINAL FLOW (60")	83 -	131 psig
FINAL SHUT-IN (225")	2965	psig
INITIAL HYDROSTATIC	3682	psig
FINAL HYDROSTATIC	3682	psig

Bottom hole temperature 150° F.

CLOSED CHAMBER TEST

CONFIDENTIAL

October 2, 1989

Yates Energy Corp.
DESERT ROSE NO. 1
DST NO. 2 9980' - 9929' (40')
(Morrow "A" Sand)

INITIAL FLOW: 11 minutes: Open tool, pressure too small to measure.
INITIAL SHUT-IN: 61 minutes.
FINAL FLOW: 30 minutes: Open tool, pressure too small to measure.
FINAL SHUT-IN: 124 minutes.

DRILL PIPE RECOVERY:

Recovered approximately 1453' of drilling mud.

SAMPLE CHAMBER RECOVERY:

Recovered 18.75 cu.ft. of gas, no liquids, 2775 psig.

PRESSURES

FIELD

INITIAL FLOW (11")	522 -	522 psig
INITIAL SHUT-IN (61")	3700	psig
FINAL FLOW (30")	643 -	671 psig
FINAL SHUT-IN (124")	3972	psig
INITIAL HYDROSTATIC	5048	psig
FINAL HYDROSTATIC	5048	psig

Bottom hole temperature 180° F.

NOTE: This test was a closed chamber test.

"CONFIDENTIAL"

October 2, 1989

Yates Energy Corp.
DESERT ROSE NO. 1
DST NO. 3 9964' - 10,038' (74')
(Morrow "C" and "D" Sand)

INITIAL FLOW: 10 minutes: Open tool, pressure at end of flow period
1.9 psig.

INITIAL SHUT-IN: 60 minutes.

SECOND FLOW: 45 minutes: Open tool, pressure at end of flow period 63
psig.

SECOND FLOW: 90 minutes:

THIRD FLOW: 49 minutes: Open tool, pressure at end of flow period 62
psig. Estimated 90 - 100 MCFPD.

THIRD SHUT-IN 180 minutes.

DRILL PIPE RECOVERY:

Recovered approximately 2475' of drilling mud (28.73
barrels).

SAMPLE CHAMBER RECOVERY:

Recovered 14.45 cu.ft. of gas, 1050 cc drilling mud,
pressure 2750 psig.

PRESSURES

FIELD

INITIAL FLOW (10")	323 -	283 psig
INITIAL SHUT-IN (60")	3931	psig
SECOND FLOW (45")	359 -	600 psig
SECOND SHUT-IN (90")	3932	psig
THIRD FLOW (49")	653	888 psig
THIRD SHUT-IN (180")	3947	psig
INITIAL HYDROSTATIC	5020	psig
FINAL HYDROSTATIC	5025	psig

Bottom hole temperature 180° F.

NOTE: This test was a closed chamber test.

"CONFIDENTIAL"

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-15-89	
Company YATES ENERGY CORP.		Connection AIR	
Pool		Formation STRAWN	
Completion Date 11-09-89		Total Depth 10310	
Plug Back TD 10236		Elevation 0	
Form or Lease Name DESERT ROSE		Well No. 1	
Coq. Size 4.5	Wt. 11.6	d 4.000	Set At 10310
Perforations: From 8772 To 8816		Well No. 1	
Thq. Size 2.375	Wt. 4.7	d 1.995	Set At 8819
Perforations: From To		Unit Sec. Twp. Rge.	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE - GAS		Packer Set At 8745	
Producing thru TUBING		County EDDY	
Reservoir Temp. °F 166 # 8844		State NEW MEXICO	
Mean Annual Temp. °F 60		Buro. Press. - P _g 13.2	
L 8844	H 8844	G _g 0.621	% CO ₂ 0.66
% N ₂ 0.20		% H ₂ S 0	
Prover 0		Meter Run 3.068	
Taps FLANGE			

FLOW DATA						TUBING DATA		BHP DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							2830	70	3501	166	72
1.	3.07 X 1.750			170	2	75	2770	60	3438	166	1
2.	3.07 X 1.750			200	6	70	2690	60	3354	166	1
3.	3.07 X 1.750			200	14	60	2545	60	3185	166	1
4.	3.07 X 1.750			200	30	65	2380	60	2988	166	1
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mscf/d
1	15.61	19.14	183.2	.9859	1.2690	1.0150	379
2	15.61	35.77	213.2	.9905	1.2690	1.0181	714
3	15.61	54.63	213.2	1.0000	1.2690	1.0194	1103
4	15.61	79.97	213.2	.9952	1.2690	1.0187	1606
5							

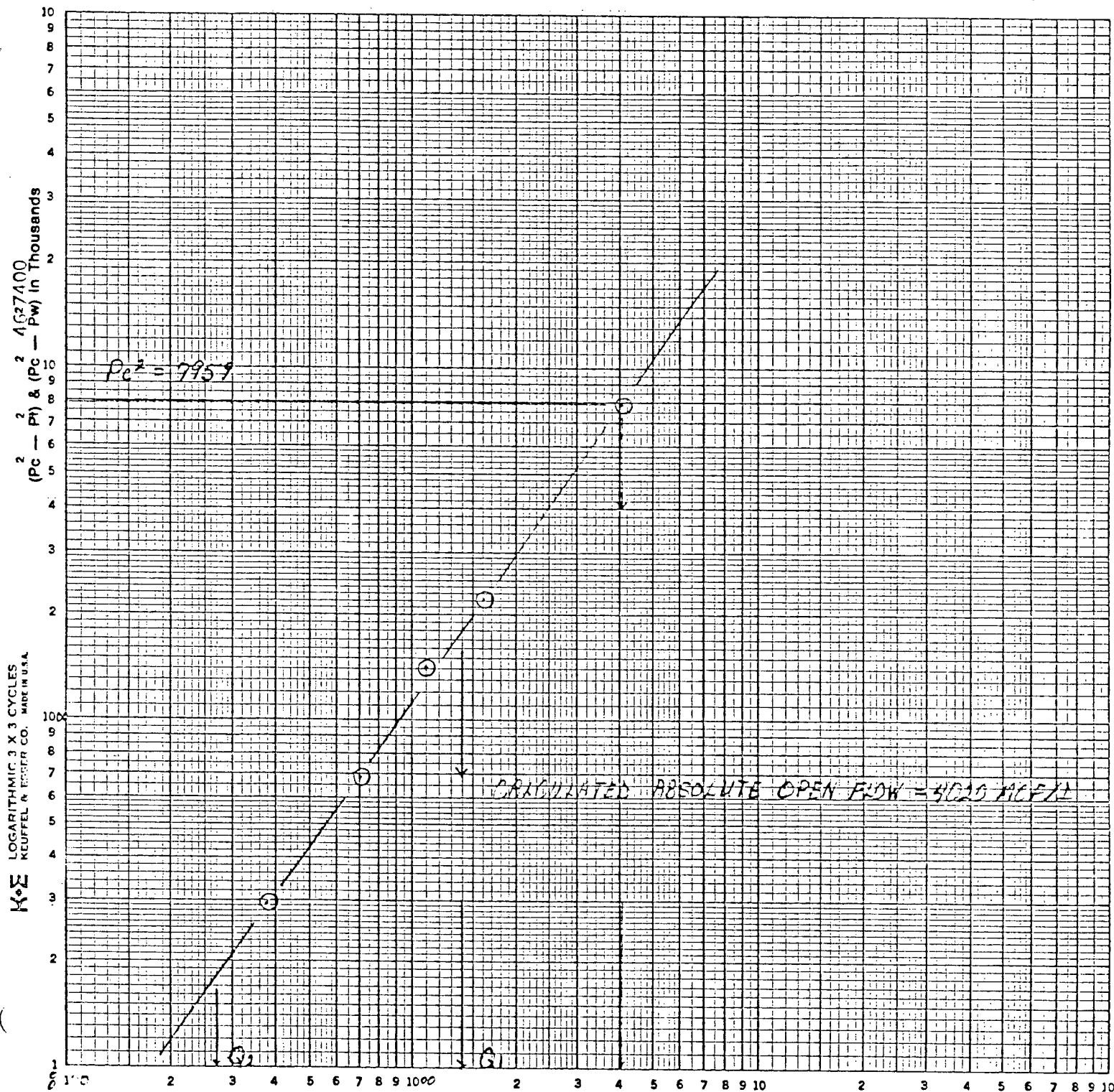
NO.	R	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.27	535	1.47	.971	0	0	.621	X X X X X X X X	674	363
2	.32	530	1.46	.965				X X X X X		
3	.32	520	1.43	.962						
4	.32	525	1.44	.964						
5										

P _g 28263 P _w 7959		(1) $\frac{P_g^2}{P_g^2 - P_w^2} = 3.6124$		(2) $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = 2.5028$	
NO.	P _g	P _w	P _g ²	P _w ²	P _g ² - P _w ²
1	11909	2769	7665	295	295
2	11335	2699	7282	677	677
3	10228	2560	6551	1408	1408
4	9010	2399	5756	2203	2203
5					

Absolute Open Flow 4020 Mscf @ 15.025		Angle of Slope α 54.5		Slope, n 0.714	
Remarks: CHOKE SIZES 1ST RATE 4/64 2ND RATE 7/64 3RD RATE 10/64 4TH RATE 12/64					
Approved By Division: _____ Conducted By: BENNETT-CATHEY WIRELINE Calculated By: MATT LEE Checked By: _____					

BACK PRESSURE CURVE

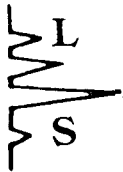
Operator Yates Energy Lease Desert Rose Well No. 1
 County Eddy Field _____ Location _____
 Date of Test 11-9-89 Slope "n" 0.714 Angle of Slope 54.5
 Calc. Abs. Potential 4020 MCF/D



$$\begin{aligned} \overline{\Delta P}_1^2 \quad P_c^2 - P_w^2 &= 1800 \\ \overline{\Delta P}_2^2 \quad P_c^2 - P_w^2 &= 180 \\ Q_1 &= 1400 \\ Q_2 &= 270 \end{aligned}$$

 $Q, \text{Mcf/d}$

$$\begin{aligned} \text{LOG } Q_1 &= 3.146 \\ \text{LOG } Q_2 &= 2.432 \\ n &= 0.714 \end{aligned}$$



LABORATORY SERVICES

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Bennett & Cathey
Attention: Mr. Monty Randolph
P. O. Box 787
Artesia, New Mexico 88210

SAMPLE
IDENTIFICATION: Desert Rose #1
COMPANY: Yates Energy
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 11/15/89 6:30 PM GAS (X) LIQUID ()
ANALYSIS DATE: 11/17/89 SAMPLED BY: Bennett & Cathey
PRESSURE — PSIG 200 ANALYSIS BY: Rolland Perry
SAMPLE TEMP. °F: 65
ATMOS. TEMP. °F:

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM	LIQ. VOL. PERCENT
Hydrogen Sulfide (H2S)	---		
Nitrogen (N2)	0.20		
Carbon Dioxide (CO2)	0.66		
Methane (C1)	92.63		
Ethane (C2)	3.97	1.013	
Propane (C3)	0.93	0.264	
I-Butane (IC4)	0.20	0.065	
N-Butane (NC4)	0.21	0.066	
I-Pentane (IC5)	0.11	0.040	
N-Pentane (NC5)	0.07	0.025	
Hexane (C6)	0.62	0.286	
Heptanes Plus (C7 +)	0.40	0.224	
	100.00	1.983	

BTU/CU. FT.—DRY 1101
AT 14.650 WET 1079

SPECIFIC GRAVITY—CALCULATED 0.621
MEASURED

VAPOR PRESSURE (ABSOLUTE)—CALCULATED

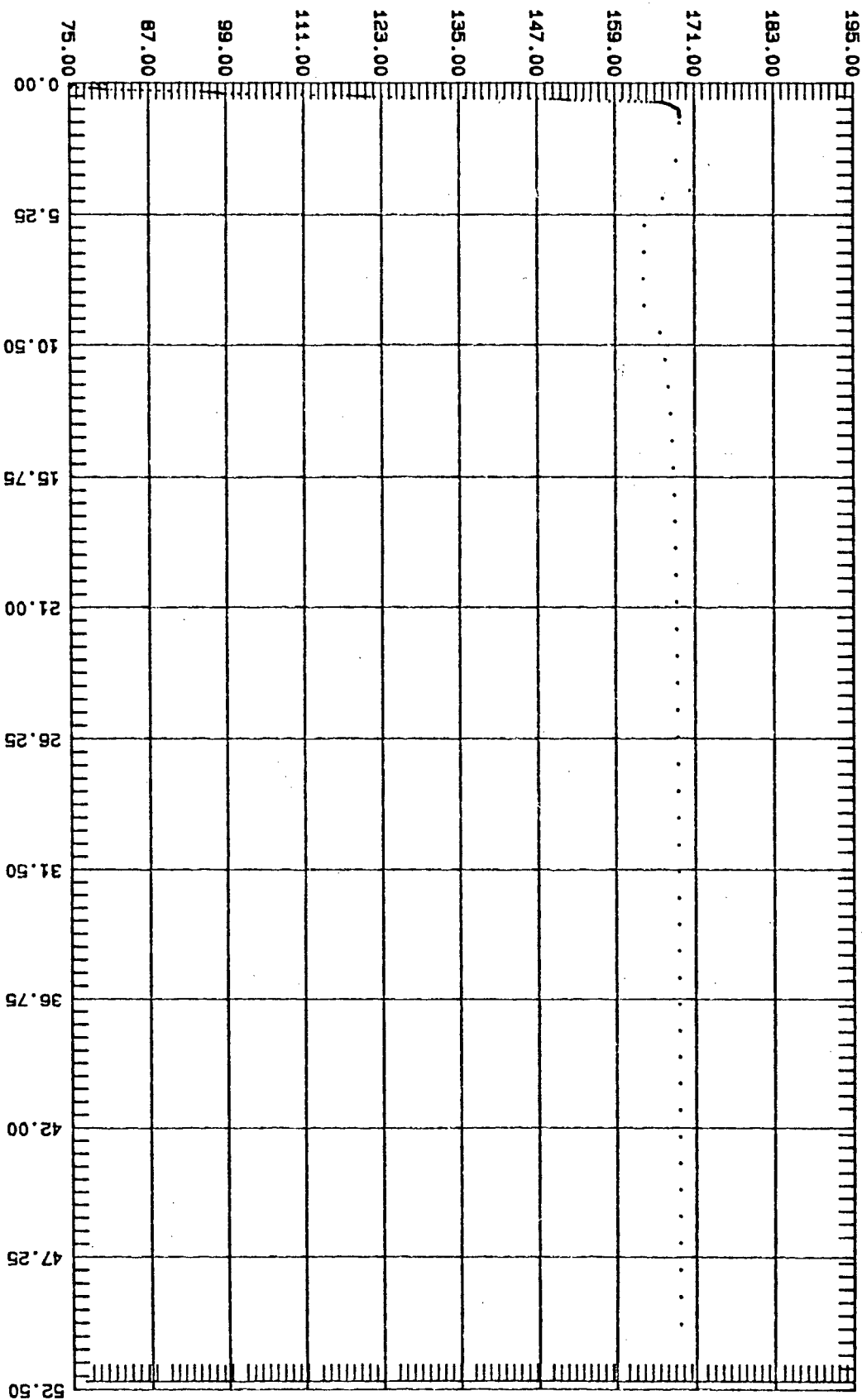
26# GASOLINE— 0.598

CU. FT./GAL. —

Plot starting date: 11/15/89
time: 12:59:39
Gauge S/N 76224

Company: BENNETT CATHEY WIRELINE
Client: YATES ENERGY
Well name: DESERT ROSE
Well #: 1
Test #: 1
Location: STAGGS
Operator: STAGGS
Comments: GRADS, 4 PT. BUILD UP

TEMPERATURE - F

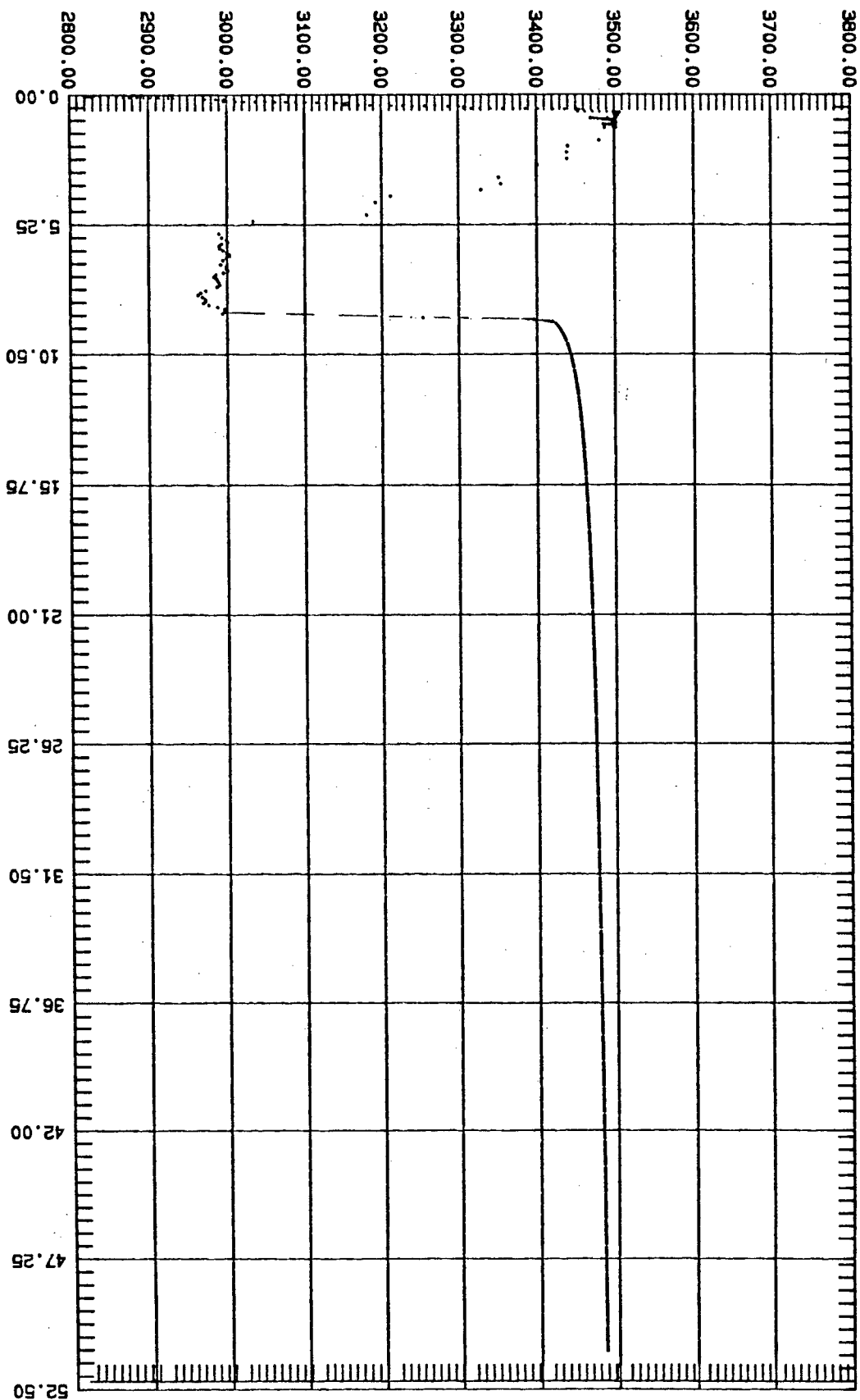


DELTA TIME - HRS

Plot starting date: 11/15/89
time: 12:59:39
Gauge S/N 76224

Company: BENNETT CATHEY WIRELINE
Client: YATES ENERGY
Well name: DESERT ROSE
Well #: 1
Test #: 1
Location: STAGGS
Operator: STAGGS
Comments: GRADS, 4 PT, BUILD UP

PRESSURE - PSIA

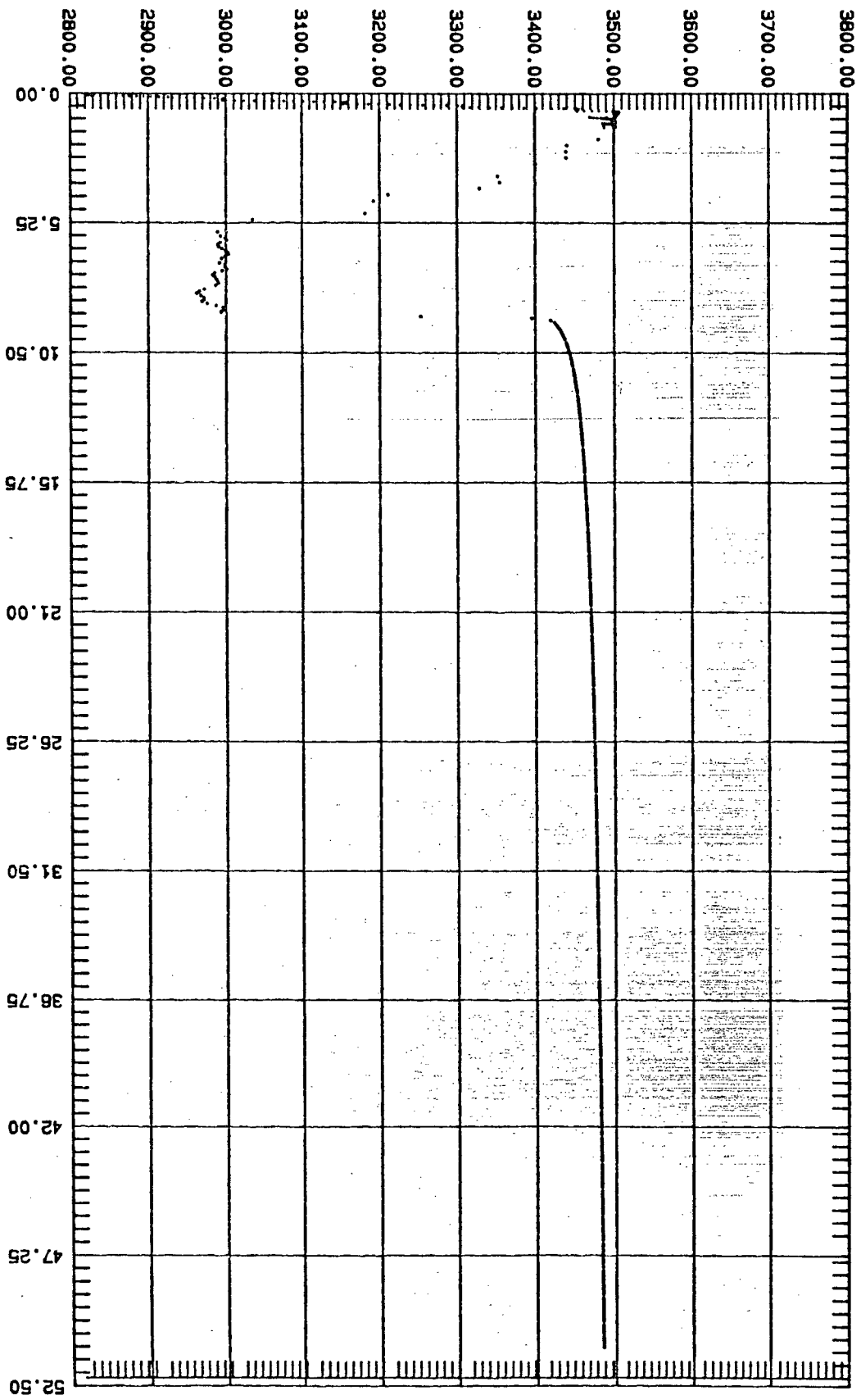


DELTA TIME - HRS

Plot starting date: 11/15/89
time: 12:59:39
Gauge S/N 76224

Company: BENNETT CATHEY WIRELINE
Client: YATES ENERGY
Well name: DESERT ROSE
Well #: 1
Test #: 1
Location:
Operator: STAGGS
Comments: GRADS. 4 PT. BUILD UP

PRESSURE - PSIA



DELTA TIME - HRS

RECEIVED NOV 07 1989

O'BRIANT ENGINEERING

P.O. Box 10487

Midland, Texas 79702

915-683-5511

915-683-3172

November 2, 1989

Mr. Fred Yates
Yates Energy Corp.
P. O. Box 2323
Roswell, New Mexico 88202

SUBJECT: Completion Report
Morrow "A, C and D" Sands
Desert Rose Federal No. 1
Eddy County, New Mexico

Dear Mr. Yates:

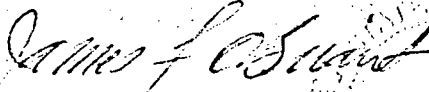
Completion operations began on October 10, 1989 to complete the Morrow "C" and "D" Sands from 9974' - 10,030' K.B., and the Morrow "A" Sand from 9880' - 9900 K.B.

The Morrow "C" and "D" zones were perforated, treated and tested with an indicated rate of 169 MCF/day on a 1/4" choke; flowing tubing pressure was 100 psig. These zones were plugged off with a blanking plug set in the profile nipple at 9936' K.B.

The Morrow "A" zone was then perforated, treated and tested with an indicated rate of 650 MCF/Day on a 3/4" choke; flowing tubing pressure was 40 psig. The well has been shut-in waiting on a completion attempt in the Strawn formation at a later date.

Field operations were supervised by Mr. Gene Printz. Copies of his field notes along with a well data sheet are attached.

Very truly yours,



James F. O'Briant
Registered Professional Engineer

JFO/sj
Attachments:

WELL DATA

10/22/89

TOTAL DEPTH: 10,311' KB Driller ELEVATION: 4246' KB
10,310' KB Schlumberger 4,229' GL

KB TO CHF 17 feet

CASING 13-3/8" set @ 350' KB, cement circulated.
8-5/8" set @ 2562' KB; cement circulated w/1" plugs.
4-1/2" , 11.6'/ft., 8 rd, LT&C, J-55 & N-80, set at 10,310' KB; cemented with 1200 sx.;
TOC @ 6100' KB (Schlumberger CBL dated 10/12/89)

PLUG BACK DEPTHS 10,236' KB estimate.
Halliburton RBP set at 9,916' KB.

PERFORATIONS Morrow "A" zone: 9,880' - 9,900' KB with 2 shots per foot; total of 40 holes (0.42" dia.)
Morrow "C & D" zones: 9,975' - 77', 9,986' - 92', 10,010 - 16' & 10,027 - 28' KB;
4 at each interval, total of 16 holes.

TREATMENTS Morrow "A" zone: 250 gallons of 10% acetic, 4000 gallons of 7.5% MS acid;
frac'd w/18300 gal. Versagel 1500, 4000 gal. CO2 and 18000# 20/40 Interprop
Morrow "C & D" zone: 250 gallons of 10% acetic, 4000 gallons of 7.5% MS acid.

TUBING & PACKER All tubing and subs are 2-3/8", 4.7#/ft., 8 rd, EUE, N-80

Halliburton RBP Retrieving head	2.00'
Halliburton RTTS Packer	4.00'
Seating nipple with cplg.	1.70'
301 Joints Tubing	9,796.30'
Total Tubing and Tools	9,804.00'
KB Datum	15.00'
Bottom of tools	9,819.00' KB
Below RTTS shown above	
Halliburton RBP	4.00'
Total Tools	4.00'
KB Datum	9,908.00'
Bottom of RBP	9,912.00' KB
Below RBP shown above	
Baker A4 Lok-Set Packer	3.44'
Tubing sub	4.24'
Baker "on-off" tool w/1.78" F Profile plug	1.65'
Total Tools	9.33'
KB Datum	9,920.84'
Bottom of Packer	9,930.17' KB

POTENTIAL TEST Morrow "A" zone: Calculated 24 hour rate, appx. 650 MCF on 3/4" choke, with flowing tubing pressure of 40 psig.
Morrow "C & D" zones: Calculated 24 hour rate, appx. 169 MCF on 1/4" choke, with flowing tubing pressure of 100 psig.

NOTES Casing fluid is 3% KCl water, Xmas tree installed.

O'Brian Engineering----11/6/89

O'BRIANT ENGINEERING

RECEIVED DEC 28 1989

P.O. Box 10487

Midland, Texas 79702

915-683-5511

915-683-3172

December 20, 1989

Mr. Fred Yates
Yates Energy Corp.
P. O. Box 2323
Roswell, New Mexico 88202

SUBJECT: Completion of Strawn Formation
Desert Rose Federal No. 1
Eddy, New Mexico

Dear Mr. Yates:

Operations began on November 2, 1989 to isolate the Morrow "A, C and D" Sands and complete the Strawn formation from 8770' to 8820' K.B.

The tubing assembly was pulled out of the hole and a retrievable bridge plug run and set at 9206.01' to isolate the Morrow zones. The Strawn formation (8772' - 90') and (8808' - 8816') K.B. were perforated and flow tested. On November 9, 1989 the well was flowing at a rate of 3.5 MMCF/day on a 20/64" choke with a flowing tubing pressure of 1420 psig. The well was shut-in waiting on pipeline installation.

Field operations were supervised by Mr. Gene Printz. Copies of his field notes along with a well data sheet are attached.

Yours very truly,

James F. O'Briant
James F. O'Briant
Registered Professional Engineer

JFO/sj
cc: Gene Printz

WELL DATA11/9/89

<u>TOTAL DEPTH:</u>	10,311 ' KB Driller	<u>ELEVATION:</u>	4246 ' KB
	10,310 ' KB Schlumberger		4,229' GL

<u>KB TO CHF</u>	17 feet
------------------	---------

<u>CASING</u>	13-3/8" set @ 350' KB, cement circulated.
	8-5/8" set @ 2562' KB; cement circulated w/1" plugs.
	4-1/2" , 11.6'/ft., 8 rd, LT&C, J-55 & N-80, set at 10,310' KB; cemented with 1200 sx.;
	TOC @ 6100' KB (Schlumberger CBL dated 10/12/89)

<u>PLUG BACK DEPTHS</u>	10,236' KB estimate.
	Halliburton RBP set at 9,206' KB; 1 sack of sand on top of plug.

<u>PERFORATIONS</u>	Morrow "A" zone: 9,880' - 9,900' KB with 2 shots per foot; total of 40 holes (0.42" dia.)
	Morrow "C & D" zones: 9,975' - 77', 9,986' - 92', 10,010 - 16' & 10,027 - 28' KB;
	4 at each interval, total of 16 holes.

<u>TREATMENTS</u>	Morrow "A" zone: 250 gallons of 10% acetic, 4000 gallons of 7.5% MS acid;
	frac'd w/18300 gal. Versagel 1500, 4000 gal. CO2 and 18000* 20/40 Interprop
	Morrow "C & D" zone: 250 gallons of 10% acetic, 4000 gallons of 7.5% MS acid.

<u>TUBING & PACKER</u>	All tubing and subs are 2-3/8" 4.7#/ft., 8 rd, EUE, N-80
----------------------------	--

		<u>Top of Section</u>
Gun Bull Plug	3.22'	8,816.00'
Perforating Guns (w/66 holes)	44.00'	8,772.00'
Mechanical Firing Head	1.16'	8,770.84'
N-80 Handling Sub with 1.56" No-Go	4.20'	8,766.64'
N-80 Tubing Sub	10.05'	8,756.59'
Mechanical Tubing Release (2*3/8" X 1.81")	1.57'	8,755.02'
Maximum differential BAK vent	2.31'	8,752.71'
N-80 Tubing Sub	4.08'	8,748.63'
Baker 43A4 Lok-Set Packer	3.29'	8,745.34'
Baker "on-off" tool w/1.87 "F" Profile	1.64'	8,743.70'
4 Joint tubing	130.00'	8,613.70'
Tubing marker sub w/RA bead @ pin	6.02'	8,607.68'
263 Joints Tubing	8559.07'	48.61'
Tubing Sub	6.03'	42.58'
1 Joint tubing	32.74'	9.84'
<u>Total Tubing and Tools</u>	<u>8809.38'</u>	
KB Datum	9.84'	
Bottom of Guns	8819.22'	
 Halliburton RBP set @	 9206.01' KB	
 Baker A4 Lok-Set Packer	 3.44'	
Tubing sub	4.24'	
Baker "on-off" tool w/1.78" F Profile plug	1.65'	
<u>Total Tools</u>	<u>9.33'</u>	
KB Datum	9,840.67'	
Bottom of Packer	9,850.00' KB	

DDE---12/20/89

POTENTIAL TEST

Strawn zone: C A O F 4020 MCFPD on 11/15/89.

NOTES

Casing fluid is 3% KCl water, Xmas tree installed with a "wrap around" in place.

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W548 & W549-89TO Yates EnergyDate October 18, 1989Suite 919 - Sunwest CentreRoswell, NM 88201

This report is the property of Halliburton Services and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first obtaining the express written approval of laboratory management. It may however be used in the course of regular business operations by any person or company and employees thereof receiving such report from Halliburton Services.

Submitted by Gene PrintzDate Rec. October 17, 1989Well No. Desert Rose #1Depth 9975' - 10028' Formation MorrowField Sec. 27, T 23S, R 23ECounty EddySource

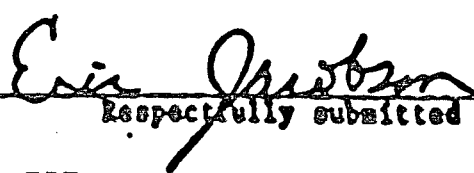
Swab

3% KCL From Tank

Resistivity 0.060 @ 70°0.185 @ 70°Specific Gravity .. 1.130 @ 70°1.0286 @ 70°pH 5.27.0Calcium 18,771787Magnesium 4,569955Chlorides 109,00024,000Sulfates 1,500300Bicarbonates 0305Soluble Iron 6000Sodium 41,23313,116Potassium 8001,500KCL5%10%

Remarks:

No Bicarbonates due to low pH of Swab Sample.



Respectfully submitted
Analyst: Eric Jacobson - EIT

HALLIBURTON SERVICES

RECEIVED OCT 27 1989

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W552-89

TO Yates Energy

Date October 21, 1989

Suite 919 - Sunwest Centre

Roswell, NM 88201

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Submitted by _____ Date Rec. October 21, 1989

Well No. Desert Rose #1 Depth 9880' - 9900' Formation Morrow

Field _____ County _____ Source Flowline

Resistivity 0.063 @ 70°

Specific Gravity .. 1.104 @ 70°

pH 5.7

Calcium 16,186

Magnesium 3,342

Chlorides 90,000

Sulfates 1,500

Bicarbonates 0

Soluble Iron 600

Potassium 800

Sodium 34,196

KCL Nil

Remarks:

Eric Jacobson
Respectfully submitted

Analyst: Eric Jacobson - EIT

HALLIBURTON SERVICES

PRECISION SERVICE, INC.

P.O. BOX 3659 * CASPER, WYOMING 82602 * (307) 237-9327
P.O. BOX 2604 * ROSWELL, NEW MEXICO 88201 * (505) 622-9874

LET YOUR INTEREST IN MEASUREMENT BE OUR CONCERN

LABORATORY REPORT NUMBER 131-7 GAS ANALYSIS

COMPANY: YATES ENERGY CORP.
PRODUCER: YATES ENERGY CORP.
LEASE: DESERT ROSE FED #1

DATE SAMPLED 01/22/90
DATE RUN 01/31/90
STATION

COMPONENT MOLE % 14.696 PSIA 14.730 PSIA

NITROGEN	0.754		
CARBON DIOXIDE	0.756		
METHANE	92.654	*****	
ETHANE	4.085	1.090	1.093
PROPANE	0.977	0.268	0.269
ISO-BUTANE	0.206	0.067	0.067
N-BUTANE	0.235	0.074	0.074
ISO-PENTANE	0.112	0.041	0.041
N-PENTANE	0.069	0.025	0.025
HEXANES PLUS	0.152	0.066	0.066
TOTAL %	100.000		
ETHANE PLUS	5.836	1.631	1.635
PROPANE PLUS	1.751	0.541	0.542
BUTANES PLUS	0.774	0.273	0.273
PENTANES PLUS	0.333	0.132	0.132

TOTAL REAL BTU / CU. FT.	(DRY)	1065	1067
TOTAL REAL BTU / CU. FT.	(WET)	1046	1048

REAL SPECIFIC GRAVITY	0.609	Z FACTOR	0.9977
IDEAL SPECIFIC GRAVITY	0.608	MOLECULAR WEIGHT	17.6368

(ALL VALUES CALCULATED AT 60 DEG. F)

SAMPLED BY: L.LeJEUNE
LOCATION: DARK CANYON
COUNTY: EDDY
STATE: NEW MEXICO
PRES. PSIG: 486
TEMP(DEG F): 81
FIELD GRAVITY: 0.603
ZONE:
VOLUME MCF/D:

RUN BY ... JEFFREY A. PROPP
APPROVED BY...J.A.PROPP

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W422 & W423-90TO Yates EnergyDate July 31, 1990P. O. Box 2323Roswell, NM 88201

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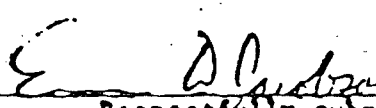
Submitted by _____ Date Rec. July 31, 1990

Well No. _____ Depth _____ Formation _____

Field _____ County _____ Source _____

DESERT ROSE #1LONESOME #1Resistivity 1.12 @ 70°0.91 @ 70°Specific Gravity .. 1.0047 @ 70°1.0050 @ 70°pH 7.17.0Calcium 1,326612Magnesium 247124Chlorides 3,7004,000Sulfates 300400Bicarbonates 275519Soluble Iron 05

Remarks:


Respectfully submittedAnalyst: Eric Jacobson - Field Engineer

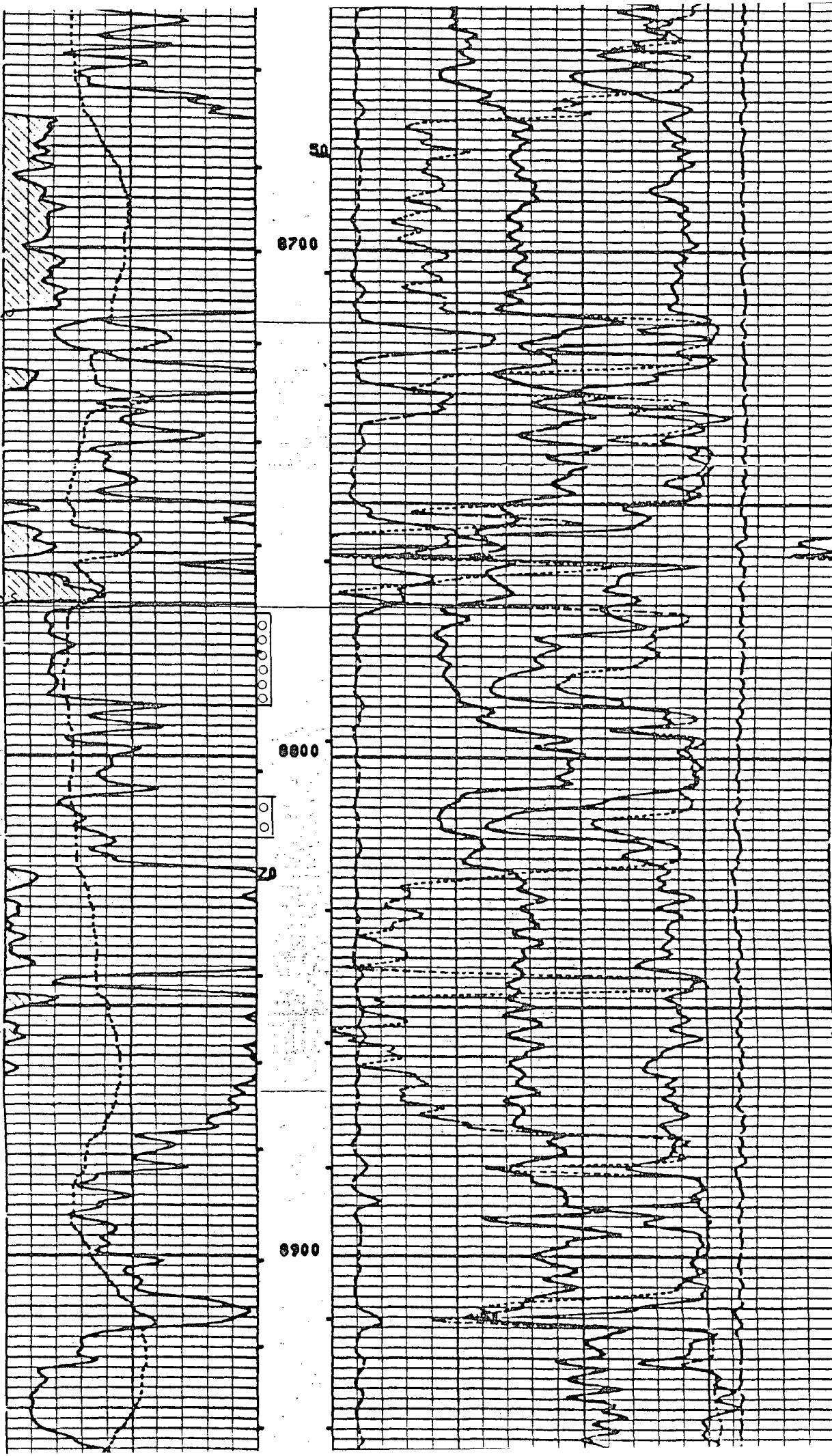
HALLIBURTON SERVICES

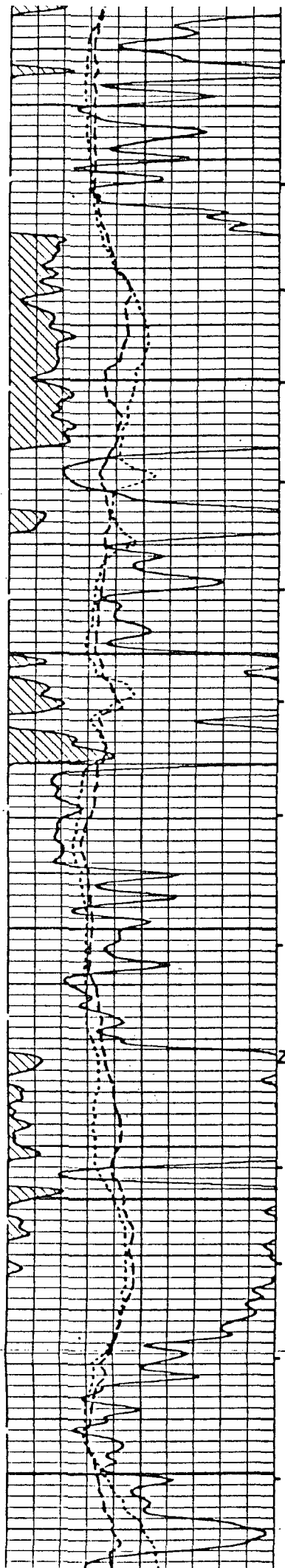
NOTICE:

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TOP OF STRAW

STRAW SAND



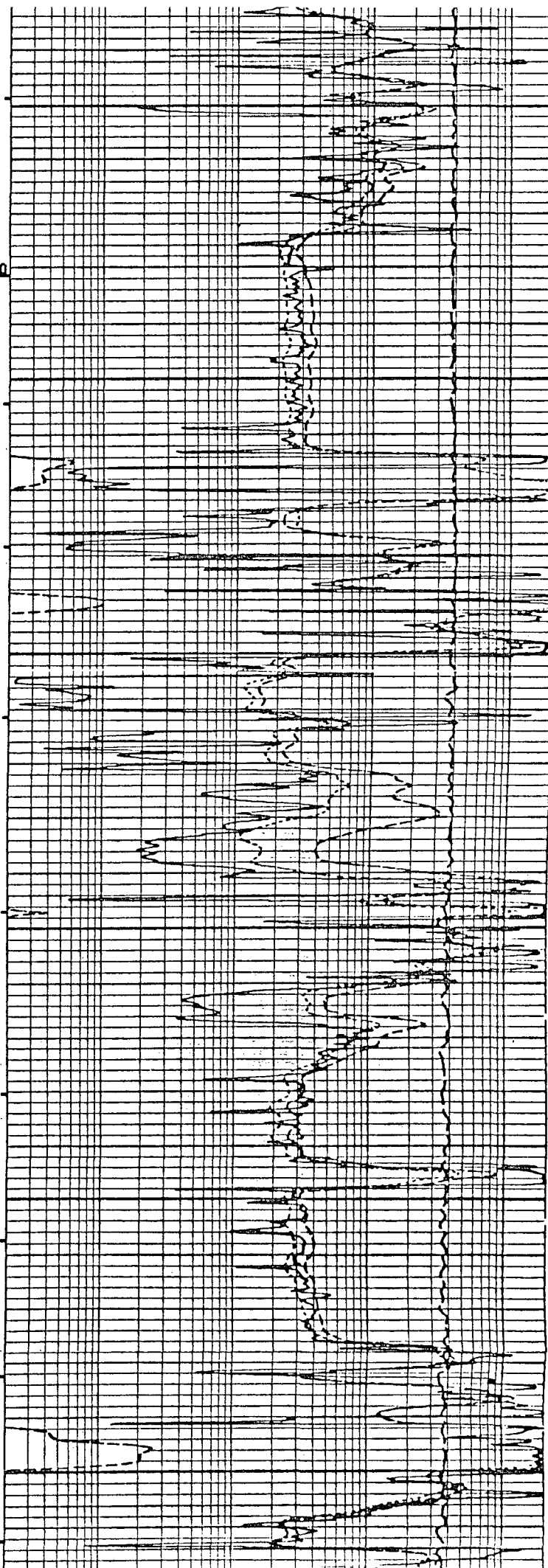


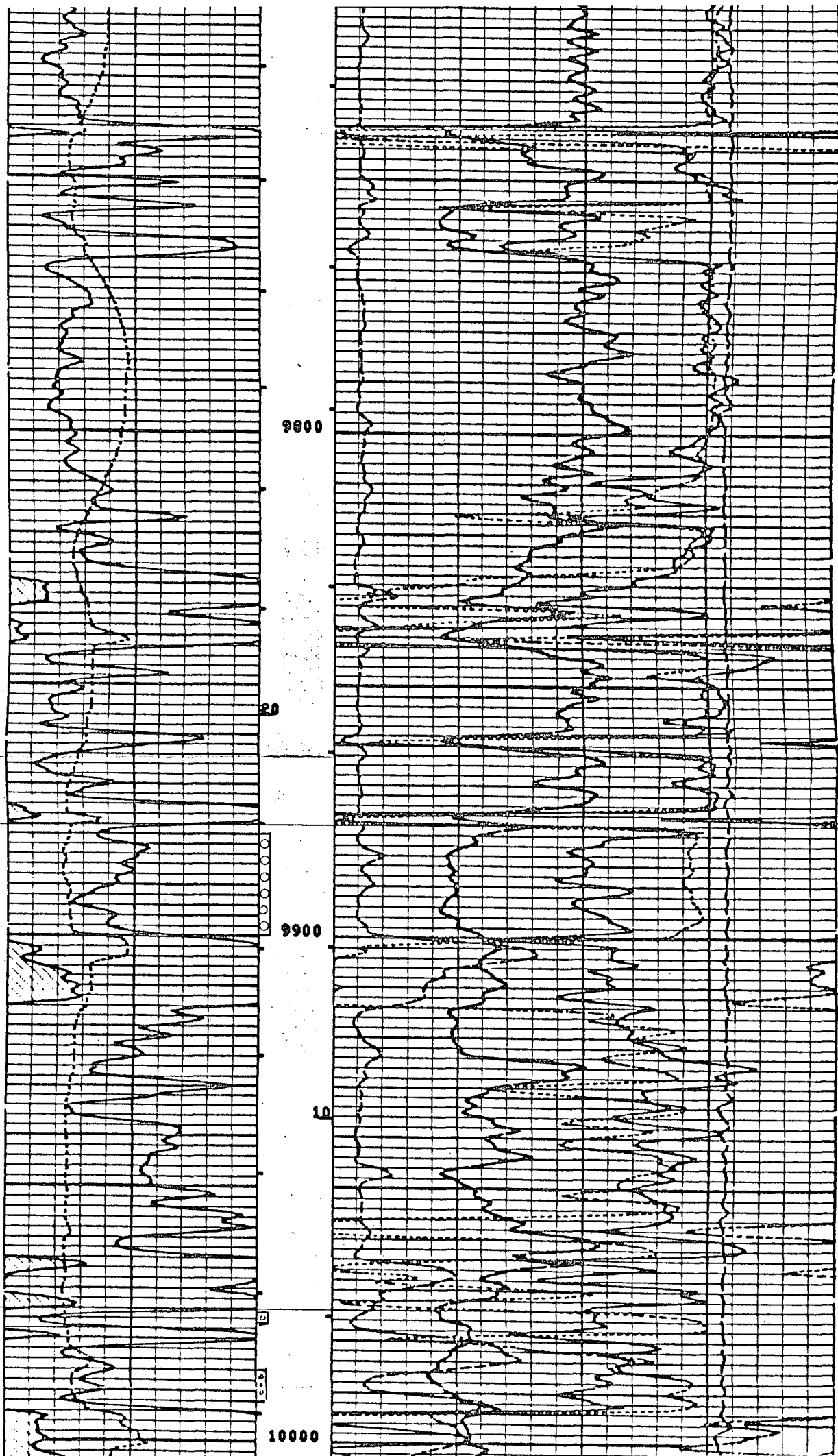
50

8700

8800

8900





Morrow "A" SAND

Morrow "C"

9800

9900

10000

Attachment "C"

O'BRIANT ENGINEERING

P.O. Box 10487

Midland, Texas 79702

915-683-5511

915-683-3172

Mr. FRED YATES
YATES ENERGY CORPORATION
P. O. Box 2323
Roswell, New Mexico 88202-2323

October 14, 1990

Re: DUAL COMPLETION PROCEDURE
Morrow "A, C & D" 9,878' to 10,030' KB
And Strawn 8,770' to 8,820' KB
Desert Rose Federal No. 1
Eddy County, New Mexico

Dear Mr. Yates:

The following general procedure was prepared after discussions with you, Bill Baker, Sr., Gene Printz and Halliburton Services personnel and revised 10/14/90 as per your request. This plan assumes initial completion of the Morrow "A, C & D" sands and the Strawn zones have been accomplished and that the completion assembly in the well is the same as installed by Gene Printz in November 1989. The Strawn zones will be killed using a 2% KCl treated water and a single string completion assembly installed to permit production of the Morrow, Strawn or Morrow-Strawn combination.

General Procedure

1. Move-in and rig up workover equipment.
2. Kill Strawn zones; pull tubing, packer and tubing conveyed equipment from hole.
3. Go in hole with retrieving tool; reverse circulate sand from RBP and pull from hole.
4. Run completion assembly as required to selectively complete from Morrow, Strawn or Morrow-Strawn zones.
 Top section of "on-off" tool for bottom packer
 Tubing sub(s)
 Baker Model "L" Sleeve with 1.87" Profile (in open position)
 Balance of tubing and/or subs to space out to surface.
Note: Profile nipples/sleeve must be sized to allow passage of tools to "on-off" tool at bottom packer.
5. Remove BOP, set well head and tie into flow line.
6. Swab top zone off; flow to clean up through tubing.
7. Flow test Strawn up annulus to test.
8. Install a two pen recorder on tubing and casing; close sleeve and bleed pressure from tubing; allow Strawn pressure to build to effect a test of tubing-annulus separation.
9. Pull plug from bottom packer; flow to Morrow zones to clean-up.
10. Install surface equipment as required to meet BLM and NMOC requirements.
11. Turn over to pumper and initiate production.

DUAL COMPLETION PROCEDURE
Desert Rose Federal No. 1
Eddy County, New Mexico

October 14, 1990

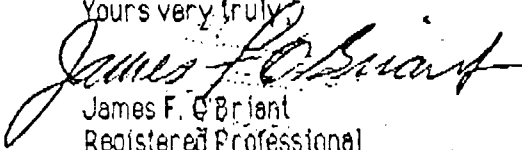
Page No. 2

Cost Estimate

Items		Totals
Pulling unit	4 days @ \$1,200 per day	\$4,800
BOP, pipe racks, CW, etc.	4 days @ \$500 per day	2,000
Insurance, allocated	4 days @ \$50 per day	200
Engineering	4 days @ \$500 per day	2,000
Overhead	4 days @ \$150 per day	600
Water, tanks, etc.		1,500
Freight, fork lift, etc.		1,500
1100 feet of 2.375", EUE, 8 rd, 4.7"/ft. N-80 tubing		3,600
Sleeve & tool repairs, misc. service & mileage		3,100
Pump truck with chemicals		1,500
Misc. equipment, services, taxes, connections, etc.		4,100
Total		\$24,900

Please advise if this procedure is in agreement with your plans and meets your testing requirements. We will begin field operations upon your approval.

Yours very truly,


James F. O'Brian
Registered Professional
Engineer

attachments
Well Data Sheet

FAX to Mr. Fred Yates @ 505-623-4947

cc

Gene Printz

Bill Baker, Sr.

YATES ENERGY CORPORATION

DESERT ROSE FEDERAL NO. 1

EDDY COUNTY, NEW MEXICO

WELL DATA11/9/89TOTAL DEPTH:10,311 ' KB Driller
10,310 ' KB SchlumbergerELEVATION:4246 ' KB
4,229' GLKB TO CHF

17 feet

CASING13-3/8" set @ 350' KB, cement circulated.
8-5/8" set @ 2562' KB; cement circulated w/1" plugs.
4-1/2", 11.6'/ft, 8 rd, LT&C, J-55 & N-80, set at 10,310' KB; cemented with 1200 sx.;
TOC @ 6100' KB (Schlumberger CBL dated 10/12/89)PLUG BACK DEPTHS10,236' KB estimate.
Halliburton RBP set at 9,206' KB; 1 sack of sand on top of plug.PERFORATIONSStrawn: 8772' - 8790' KB (36 holes) and 8808' - 8816' KB (30 holes)
Morrow "A" zone: 9,880' - 9,900' KB; total of 40 holes (0.42" dia.) Morrow "C & D"
zones: 9,975' - 77', 9,986' - 92', 10,010 - 16' & 10,027 - 28' KB; total of 16 holes.TREATMENTSMorrow "A" zone: 250 gallons of 10% acetic, 4000 gallons of 7.5% MS acid;
frac'd w/18300 gal. Versagel 1500, 4000 gal. CO2 and 18000# 20/40 Interprop
Morrow "C & D" zone: 250 gallons of 10% acetic, 4000 gallons of 7.5% MS acid.TUBING & PACKER

All tubing and subs are 2-3/8" 4.7#/ft., 8 rd, EUE, N-80

		<u>Top of Section</u>
Gun Bull Plug	3.22'	8,816.00'
Perforating Guns (w/66 holes)	44.00'	8,772.00'
Mechanical Firing Head	1.16'	8,770.84'
N-80 Handling Sub with 1.56" No-Go	4.20'	8,766.64'
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Baker 43A4 Lok-Set Packer	3.29'	8,745.34'
Baker "on-off" tool w/1.87 "F" Profile	1.64'	8,743.70'
4 Joint tubing	130.00'	8,613.70'
Tubing marker sub w/RA bead @ pin	6.02'	8,607.68'
263 Joints Tubing	8559.07'	48.61'
Tubing Sub	6.03'	42.58'
1 Joint tubing	32.74'	9.84'
Total Tubing and Tools	8809.38'	
KB Datum	9.84'	
Bottom of Guns	8819.22'	
Halliburton RBP set @	9206.01' KB	
Baker A4 Lok-Set Packer	3.44'	
Tubing sub	4.24'	
Baker "on-off" tool w/1.78" F Profile plug	1.63'	
Total Tools	9.33'	
KB Datum	9,840.67'	
Bottom of Packer	9,850.00' KB	

MISCELLANEOUS

Casing fluid - 3% KCl water containing LoSurf

UDC--10,14,90

BENNETT-CATHEY

BOTTOM HOLE
PRESSURE / GRADIENT
REPORTFOR:
YATES ENERGY
4/23/90

RECEIVED

APR 25 1990

AMSL

WELL INFORMATION :

LEASE : DESERT ROSE
LOCATION : N/A
COUNTY : EDDY

WELL # 1

FIELD : N/A

FILE # DESERT
STATE : N.M.

ELEVATION : 0.00

ZERO POINT : G.L.

TUBING SIZE : 2 3/8

DEPTH : 8819.0

CASING SIZE : 0

DEPTH : 0.0

PACKER TYPE : N/A

@ 8745.00 feet

PERFORATED 8816.0 to 8872.0 feet

TOTAL DEPTH : 0.0

TEST INFORMATION :

WELL CONDITION : SHUT-IN

WELL TYPE : N/A

SURFACE TUBING PRESSURE 1735 psig by DWT

SURFACE CASING PRESSURE 0 psig by N/A

BOTTOM HOLE TEMPERATURE 0 deg. F. at 8730.0 feet

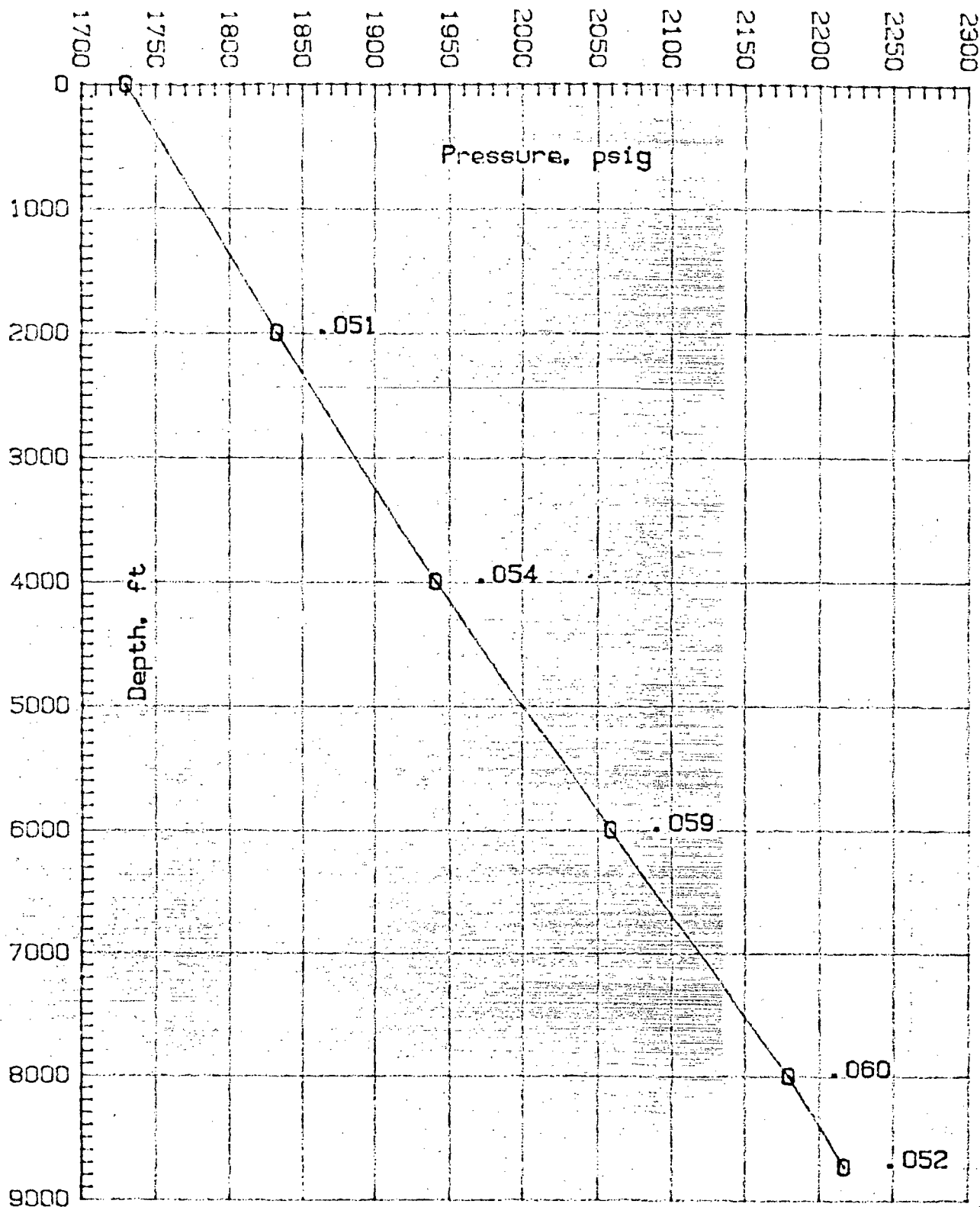
BOTTOM HOLE PRESSURE 2217.0 psig at 8730.0 feet

INSTRUMENT TYPE : KUSTER

NUMBER : 29353 RUN BY : RAMON

C&W WIRELINE dba BENNETT-CATHEY, P.O. BOX 787 ARTESIA, NM 88210

DEPTH ft	dDEPTH ft	PRESSURE psig	dPRESSURE psig	GRADIENT psig/ft
0		1729.9		
2000	2000	1832.4	102.6	.051
4000	2000	1940.7	108.2	.054
6000	2000	2059.0	118.4	.059
8000	2000	2178.9	119.9	.060
8730	730	2217.0	38.1	.052
EXTRAPOLATION TO MIDPOINT OF PERFORATIONS ;				
8844		2222.9		.052



GRADIENT SURVEY

YATES ENERGY

Field : N/A

Well # 1

Lease : DESERT ROSE

County : EDDY

State : N.M.

Date of Run : 4/23/90

Gauge # 29353

Run by : RAMON

Company: YATES ENERGY CORP.

Well: DESERT ROSE FED. 1

TEST IDENTIFICATION

Test Type OH DST
 Test No. 3
 Formation Morrow
 Test Interval (ft) ... 9954 to 10038
 Reference Depth Kelly Bushing

WELL LOCATION

Field Wildcat
 County Eddy
 State Texas
 Sec/Twp/Rng S.27T23SR23
 Elevation (ft) 4300

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 10038
 Hole Size (in) 7.875
 Casing/Liner O.D. (in) ... 6.525
 Perf'd Interv./Nt Pay(ft).
 Shot Density/Diameter(in).

MUD PROPERTIES

Mud Type Cutbrine Drispack
 Mud Weight (lb/gal) 9.6
 Mud Resistivity (ohm.m) .. .01 @ 54 degree F.
 Filtrate Resistiv.(ohm.m).
 Filtrate Chlorides (ppm) . 81000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 5019
 Gas Cushion Type
 Surface Pressure (psi) ...
 Liquid Cushion Type
 Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 9218 / 3.83
 Collar Length ft/I.D.(in). 689 / 2.25
 Packer Depths (ft) 9959, 9964
 Bottomhole Choke Size(in). .93
 Gauge Depth (ft)/Type 10033 / J-300/5007

NET PIPE RECOVERY

Volume	Fluid Type	Properties
2475	Mud	81000 ppm chlorides

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
14.45 cuft	Gas	
1050 cc	Mud	
Press. 2750	GOR: 0	GLR: 2186

VALIDATION RESULTS

Model of Behavior Dual Porosity
 Fluid Type Used Gas
 Reservoir Pressure (psi) . 2430
 Transmissivity (md.ft/cp) 119.25
 Permeability (md) 0.109
 Skin Factor/Damage Ratio . 21.8 / 6.6
 Storativity Ratio
 Interporosity Flow Coeff..
 Distance to Anomaly (ft).
 Investigation Radius (ft). 6.7
 Potentiometric Surf. (ft).

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ...
 Basic Solids (%)
 Gas Gravity 0.7 (est.)
 Water Cut (%) 0.0
 Viscosity (cp) 0.018
 Tot. Compress. (1/psi) ... 2.401 E-04
 Porosity (%) 10
 Reservoir Temperature (F). 180
 Form. Vol. Factor (bbl/STB).

PRODUCTION RATE DURING TEST: 90 mcf / day

COMMENTS:

This test was mechanically successful. Teleflow (tm) calculated gas flow rates at 90 mcf/d during the second flow period. Mud and gas were the drill pipe recovery from this test.

This analysis indicates that the formation is a two porosity system. Note that the shutin period did not reach infinite acting radial flow. Therefore, Horner straight line and calculated results may not be a correct representation of the formation. A more indepth analysis can verify the correct parameters.

© 1987 SCHLUMBERGER

FORM# 11.00-020385

SCHLUMBERGER

FORM# 11.00-020385

SCHLUMBERGER

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 115398

COMPANY : YATES ENERGY

INSTRUMENT NO. 5007

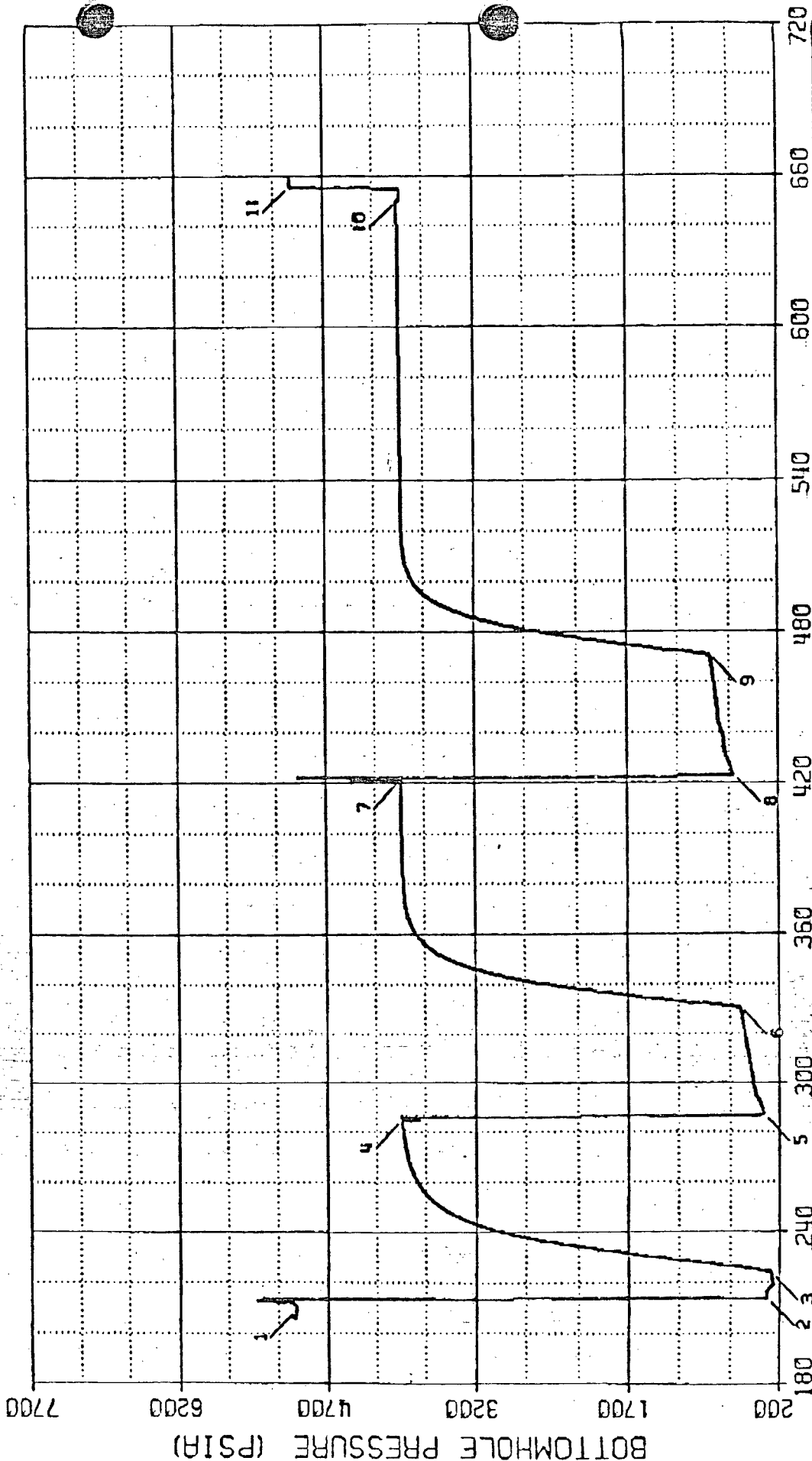
WELL : DESERT ROSE FED #1

DEPTH : 9920 FT

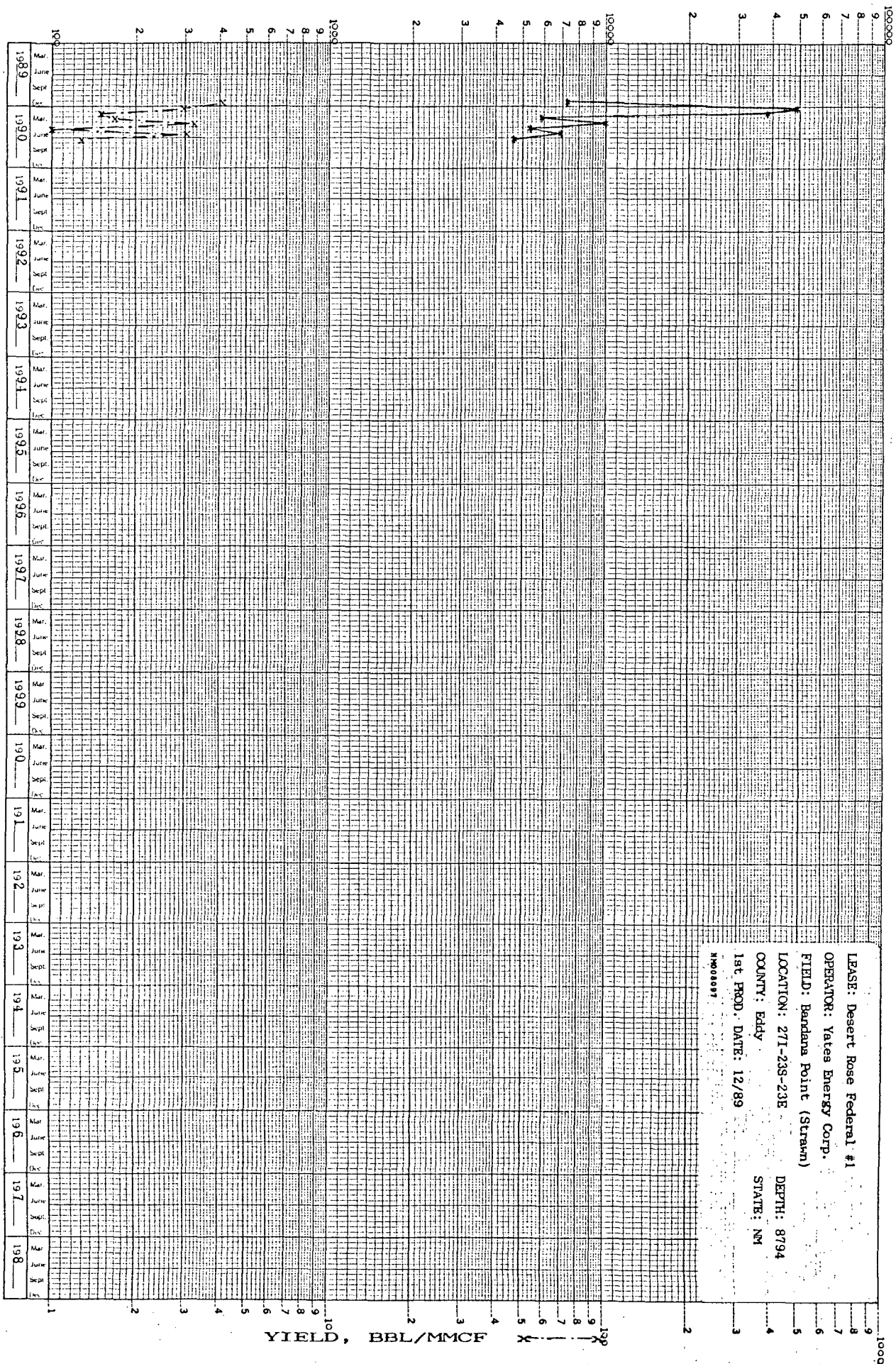
CAPACITY : 10000 PSI

Electronic Pressure Data

PORT OPENING : INSIDE



GAS PRODUCTION, MCFM



LEASE: Desert Rose Federal #1
 OPERATOR: Yates Energy Corp.
 FIELD: Bandana Point (Strawn)
 LOCATION: 271-238-23E
 COUNTY: Eddy
 1st PROD. DATE: 12/89
 DEPTH: 8794
 STATE: NM
 HNO040971

Submit 2 copies to Appropriate District Office.

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Attachment "F"

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

Operator Yates Energy Corporation		Pool Bandana Point - Strawn		County Eddy												
Address P. O. Box 2323, Roswell, NM 88202-2323		TYPE OF TEST - (X) ☐ Scheduled ☐ Special ☒		Completion ☐												
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST, HOURS	PROD. DURING TEST			GAS - OIL RATIO CU FT/ BBL.	
		U	S	T	R							WATER BBL.S.	GRAV. OIL BBL.S.	GAS M.C.F.		
Desert Rose Federal	1	1	27	23S	23E	10/10/90	F	12/64"	850.		24	0	60	2.5	1,203	481,000/1

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Signature

Sharon R. Hamilton

Sharon R. Hamilton, Landman

Printed name and title

Date 10/15/90

623-4935
Telephone No.

Desert Rose Federal #1
1740' FSL & 660' FEL
E/2 Section 27-23S-23E
Eddy County, NM

Attachment "G"