June 5, 2003

RECEIVED

JUN 30 2003

Oil Conservation Division

To Whom It May Concern:

Re: WTYSRU Well #945 – West Teas Field
2612' FNL – 330' FEL
Sec 9-T20S-R33E
Lea County, New Mexico

Chesapeake Energy, Inc. is making application to convert the #945, an oil well, to injection in an effort to further our recovery at the previously approved West Teas Yates Seven River Unit (Order # R-11375). Water will be injected into the Yates Sand interval per the attached schematic. There are no known oil or gas bearing zones relatively close to the unitized formations which could be affected by this proposed conversion. A copy of the application is enclosed which we anticipate will be administratively approved.

As one who may be affected by this application, we are notifying you of your right to participate in this process, including the right to provide evidence to the NMOGCD either in support or in opposition to the application. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days of receipt of this notice. If you desire more information, you may contact Andrew McCalmont at (405) 879-7852.

Very truly yours,

Andrew McCalmont
Asset Manager – Permian Basin
Chesapeake Energy, Inc.

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: ✓ Secondary Recovery ____ Pressure Maintenance ____ Disposal ____ Storage
Application qualifies for administrative approval? ✓ Yes ____ No

II. OPERATOR: Chesapeake Energy Inc.

ADDRESS: PO Box 18496 Oklahoma City, Ok 73154 - 0496

CONTACT PARTY: Andrew McCalmont PHONE: 405-879-7852

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ✓ Yes ____ No
If yes, give the Division order number authorizing the project: R-11375

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Andrew McCalmont TITLE: Asset Manager

SIGNATURE: Andrew McCalmont DATE: 6/5/03

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Case No. 12272, Order No. R-11375, 5/18/2000.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

PROPOSED WELLBORE SCHEMATIC
CHESAPEAKE OPERATING INC

WELL : WTU #945
FIELD : WEST TEAS
COUNTY : LEA **STATE** : NM
LOCATION : 2,612' FNL & 330' FEL, SEC. 9-T20S-R33E
ELEVATION : GL 3,553' RKB 3,569'
API NO. : 30-025-36079
SERIAL NO. : NMNM 104724

Chesapeake
Natural Gas.
Natural Advantages.

30-025-36079
2612 FNL - 330 FEL
H

Surface Casing:
8-5/8" 32# J-55 LT&C @ 1,329'
Cmt.
Lead: 405 sx HLP + 0.25 pps flocele + 2% $CaCl_2$ @ 12.7 ppg & 1.89 yd.
Tail: 250 sx Prem. Plus + 2% $CaCl_2$ @ 14.8 ppg & 1.32 yd.
Circ. 93 bbls cmt. to surface

2-3/8" IPC Tubing

IPC Baker AD-1 Pkr. @ 3,046'

Yates "1U" Perfs @ 3,096-3,108' (1 spf)

Yates "1L" Perfs @ 3,128-3,152' (1 spf)

Yates "2" Perfs @ 3,188-3,218' (1spf)

PBTD @ 3,292'

Cmt. Rtr. @ 3,300' w/ 75 sx cmt.

Seven Rivers Perfs @ 3,318-3,322' (4spf) - Sqzd.

Production Casing:
5-1/2" 15.5# J-55 LT&C @ 3,360'
Cmt.
Lead: 440 sx HLP + 0.25 pps flocele @ 12.4 ppg & 2.1 yd.
Tail: 280 sx 50:50 Poz + adds. @ 14.2 ppg & 1.39 yd.
Circ. 13 bbls cmt. to surface

Well History

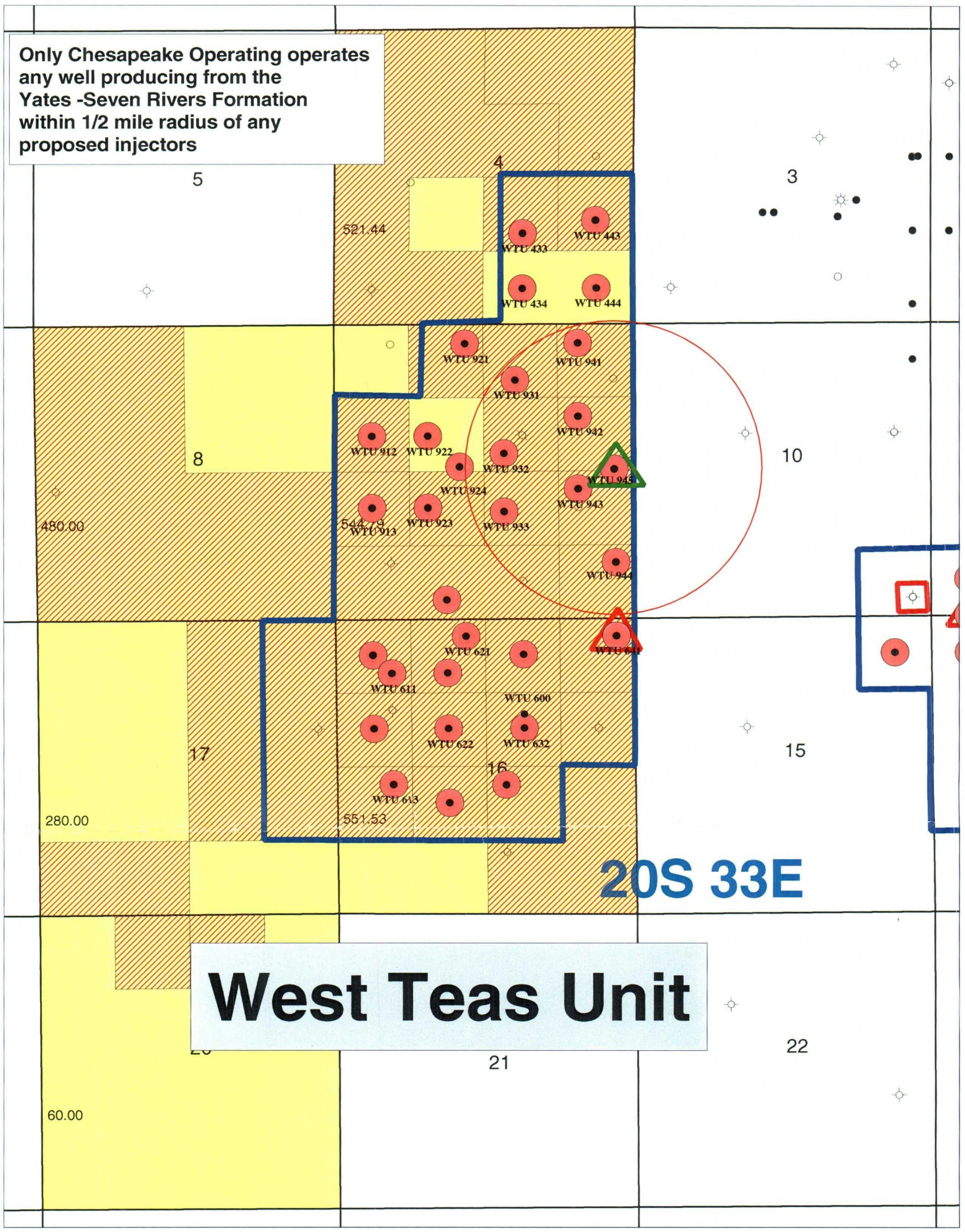
2/15/03: Spud Well @ 3:30 pm
2/18/03: Run 29 Jts. 8-5/8" surface csg; cmt. to surface
2/23/03: Run OH logs; LDDP
2/24/03: Run 95 jts. 5-1/2" production casing; cmt. to surface
2/25/03: Release Drilling Rig @ 5:00 am
3/19/03: RIH w/ GR, tag bottom @ 3,290'; not deep enough. Did not log.
3/21/03: RU & NU BOP
3/22/03: Drill FC @ 3,310'. Drill down to 3,350'.
3/24/03: Log well from 3350-2300'. Perf Seven Rivers @ 3118-3122'.
3/25/03: Load tbg. w/ acid. Press. up, broke back @ 1150 psi. & 0.2 bpm. ISIP 975 psi. RU to swab. FL @ 900' FS. Swab back 10 bbls, FL @ 200' FS; trace oil.
3/26/03: RIH w/ swab; FL @ 1900' FS. Swab down to 3000'. Acidize Seven Rivers perfs w/ 500 gal 28% NeFe. Well went on vacuum @ .5 min over flush. RU to Swab. FL @ 900' FS, swab down to 2900' FS (static)
3/27-28/03: Set Cmt. Rtr. @ 3300'. Sqz. 7 Rivers perfs w/ 75 sx cmt.
3/29-31/03: Perf Yates "2". Acidize w/ 1000 gal 15% NeFe acid & 30 BS. Frac. w/ 20,000 gal. gelled borate & 40,000# 20/40 sd. ISIP 2620 psi, 5 min. 2150 psi, 10 min. 1940 psi, 15 min. 1820 psi. MTP 3120 psi, MTR 31.6 bpm. ATR 29.8 bpm. Set CIBP @ 3,170'. Perf Yates "1L" @ 3,128-3,152' w/ 1 spf. Perf Yates "1U" @ 3,096-3,108' w/ 1 spf. Acidize w/ 1000 gal 15% NeFe & 35 BS. Frac w/ 20,000 gal. gelled borate & 45,000# 20/40 sd. ISIP 1950 psi, 5 min. 2800 psi, 10 min. 1690 psi, 15 min. 1600 psi. MTP 2100 psi, MTR 30.6 bpm. ATP 1950 psi. SISD.
4/1-2/03: GIH w/ bit & DC & tag sand @ 3154'. CO sand w/ foam unit to 3170' CIBP. DO CIBP; plug fell to 3270'. CO sand to 3292' PBTD. Circ. clean, RD foam unit. SISD.
4/3-4/03: RIH w/ tbg. string. RIG w/ swab, FL @ 1500' FS. Swab down to 1800', FL staying static @ 1800'; 10% oil cut. Total 7 BO, 71 BW.
4/4/03: RIH w/ RHBC pump & rod string. MIPU & hook up electricity.
4/5/03: First sales 4/5/03; Prod. to WTU central oil & gas batteries.
4/14/03: 24 hr. rate on 20/64" ck: 103 BO, 22 BW, 13 MCF, TP 48 psi, CP 30 psi

PREPARED BY: Ginni A. Kennedy **DATE:** 6/6/03

UPDATED BY: _____ **DATE:** _____

Item V

Only Chesapeake Operating operates any well producing from the Yates -Seven Rivers Formation within 1/2 mile radius of any proposed injectors



YATES/SEVEN RIVERS PRODUCERS

WATER FLOOD UNITS

YATES INJECTORS

PLANNED YATES INJECTORS

COI ACREAGE

COI TRACT OWNERSHIP

Chesapeake
Natural Gas. Natural Advantages.

CHESAPEAKE OPERATING, INC.

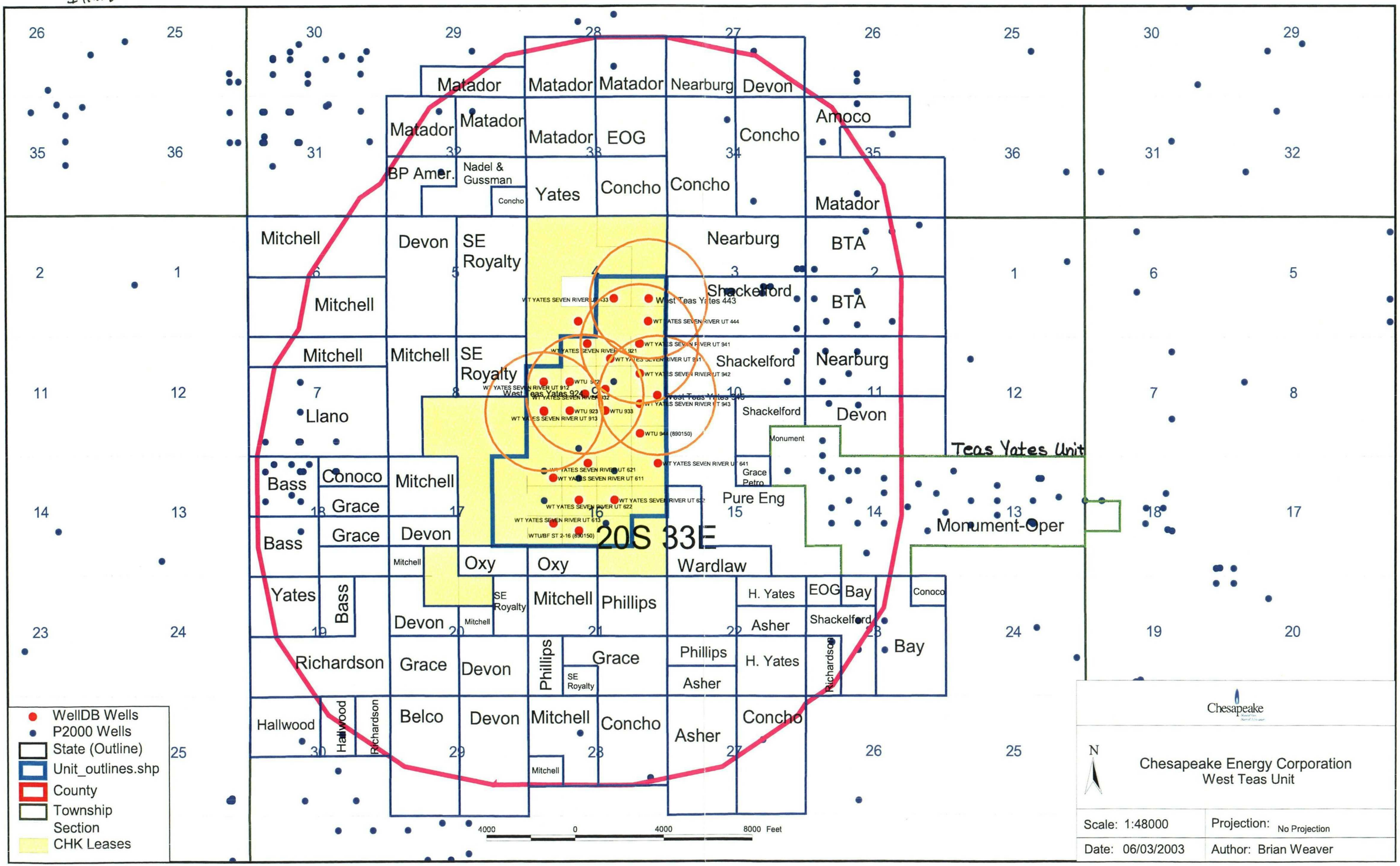
WEST TEAS YATES SEVEN RIVERS
WATERFLOOD UNIT 945
½ MILE RADIUS OF PROPOSED INJECTOR

Lea County, New Mexico

Date: 2 June, 2003
Scale: 1" = 2000'

Geol/Eng: DB / BL / AM

Item V


Matador
Matador
Matador
Nearburg
Devon
Matador
Matador
Matador
EOG
Concho
Amoco
BP Amer.
Nadel & Gussman
Concho
Yates
Concho
Concho
Matador
Mitchell
Devon
SE Royalty
Nearburg
BTA
Mitchell
Shackelford
BTA
Mitchell
Mitchell
SE Royalty
Shackelford
Nearburg
Llano
Shackelford
Devon
Monument
Teas Yates Unit
Bass
Conoco
Mitchell
Grace
Grace Petro
Pure Eng
Bass
Grace
Devon
Monument-Oper
20S 33E
Mitchell
Oxy
Oxy
Wardlaw
Yates
Bass
SE Royalty
Mitchell
Phillips
H. Yates
EOG
Bay
Conoco
Devon
Mitchell
Asher
Shackelford
Richardson
Grace
Devon
Phillips
Grace
Phillips
H. Yates
Bay
SE Royalty
Asher
Richardson
Hallwood
Hallwood
Richardson
Belco
Devon
Mitchell
Concho
Asher
Concho
Mitchell
WT YATES SEVEN RIVER UT 433
West Teas Yates 443
WT YATES SEVEN RIVER UT 444
WT YATES SEVEN RIVER UT 941
WT YATES SEVEN RIVER UT 911
WT YATES SEVEN RIVER UT 942
WT YATES SEVEN RIVER UT 912
West Teas Yates 924
WTU 872
WT YATES SEVEN RIVER UT 943
WTU 923
WTU 933
WT YATES SEVEN RIVER UT 913
WTU 944 (890150)
WT YATES SEVEN RIVER UT 621
WT YATES SEVEN RIVER UT 641
WT YATES SEVEN RIVER UT 611
WT YATES SEVEN RIVER UT 622
WT YATES SEVEN RIVER UT 613
WTU/BF ST 2-16 (890150)
WellDB Wells
P2000 Wells
State (Outline)
Unit_outlines.shp
County
Township
Section
CHK Leases
4000
0
4000
8000 Feet
Chesapeake
N
Chesapeake Energy Corporation
West Teas Unit
Scale: 1:48000
Projection: No Projection
Date: 06/03/2003
Author: Brian Weaver

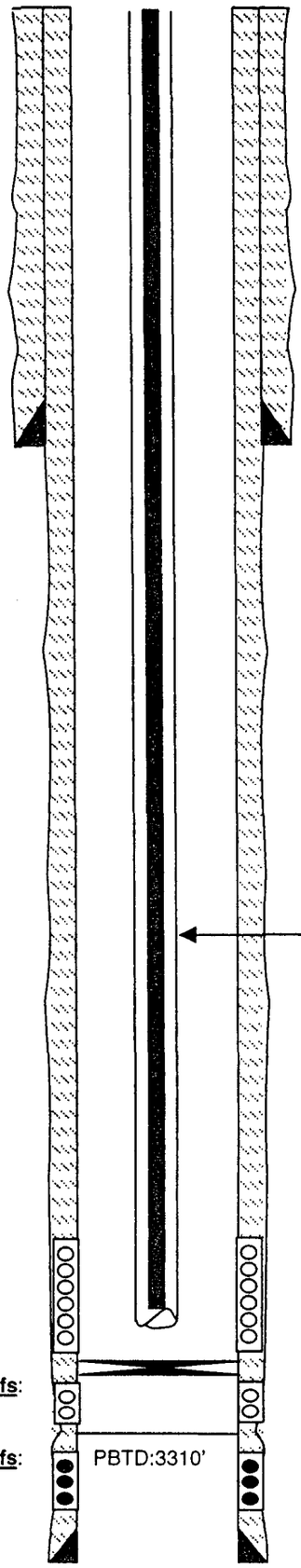
WTU 945 - C108 - Item VI
Wellbore Schematic/Data Tabulation

	Well Name	Prior Name	Location	Status
1	WTU 941	Federal 9 #5	9F-20S-33E	Producing
2	Tonto #1	NA	10F-20S-33E	P&A
3	WTU 931	Federal 9 #2	9B-20S-33E	Producing
4	WTU 932	Federal 9 #1	9G-20S-33E	Producing
5	WTU 942	Federal 9 #6	9H-20S-33E	Producing
6	WTU 933	Grover Fed #3	9J-20S-33E	Producing
7	WTU 943	Federal 9 #7	9I-20S-33E	Producing
8	WTU 944	Federal 9 #8	9P-20S-33E	Producing
9	Anasazi 9 Federal	NA	9G-20S-33E	Producing

RT. 4

Falcon Creek Resources, Inc.

WTU #941
(Federal "9" #5)
West Teas Field
"A" Section 9, T20S, R33E
Lea County, New Mexico
GL: 3,555'; KB: 3,566' (11')



Initial Completion
Spud well 4-2-94
Perf 7 Rivers @ 3302'-3306' 4 JSPF
Acidize w/1000 gals 28% HCl
Perf 7 Rivers @ 3322'-3326' 4 JSPF
Set cmt retainer @ 3215' & squeeze
w/ 50 sx cmt
IP: 51 BO, 54 BW, 1 MCF

5/94
Perf Yates Y1 3076'-3158' (68 holes)
Acidize w/ 2500 gals 7.5% NeFe acid
Frac w/ 35,000 gal Berate gel &
120,000# 12/20 sd
IP: 72 BO, 105 BW, 4 MCF

9/94
DOCR @ 3215'?, CO sd
Reperf 7 Rivers 3302' - 3306' (16 holes)
IP: 300 BO

10/95
Clean out hole to PBTD 3310'
Acidize w/ 750 gal gel acid

5/00
Set RBP over 7R zone at 3,200'

Cement Information is from State Reports

Updated: 6/29/00

COUNTY LEA, N.M. FIELD TEAS (BS)

OPR SIETE OIL & GAS CORP.

LSE TONTO WELL NO. 1

LOC Sec 10, T-20-S, R-33-E (H)

1980 FNL & 660 FEL of Sec

REISSUE TO ADD INFO

API NO. 30-025-29265 CO-ORD

F.R. 5-15-85 OBJ 11,000'RT ELEV KB

CTR Sierra #4 SPUD 6-2-85 DF 3576'op

TD 10,710 PBD P & A 10-11-85 GL

PAY ZONE	PROD INTERVAL	IP	BO	W	HRS	CHK	TEST BASIS
	PLUGGED AND ABANDONED						

GOR	GTY	CP	TP	BHP	POT DATE	TREATMENT

CSG 13 3/8-523-400 5½-10,710-1535

8 5/8-5000-2900

MIDLAND OIL SCOUTS ASSOCIATION WELL RECORD

COUNTY LEA, N.M. FIELD TEAS (BS)

WELL: SIETE OIL & GAS CORP. #1 TONTO

SPL (LOG) MARKERS

DATE

TD 10,710'; P&A 10-11-85

Gd show in Dela, shot SWC's

DST #1 10,218-294, op 65", R/24 bbls mud, SC R/2500cc mud, 60"/4738, pkr leaked, no press rptd

DST #2 10,320-706, op 75", R/220' GCM, SC R/.8 CFG @ 180#, 60"/957, 180"/1256, HP 5195-5185

Pf/BS/15/10,446-455, S/dwn, SSO, BP @ 10,300'; Pf/BS/6/10,240-247, 9/9812-24, A/500, P/15-10 BOPD, (9812-10,247), BP @ 8110'; Pf/Dela/10/8081-90, A/500 P/1d, 5% oil, BP @ 3590'; Pf/L Yates/12/3545-79, S/dry, NS O&G, BP @ 3470'; Pf/Yates/25/3380-3456, A/500, P/27 BOPD, P/5 BO, 170 BW/24'

(3-26-86)

(4-2-86)

(4-16-86)

B/Salt (3132)

Yates (3360)

Dela Mtn (5354)

BS lm (7927)

Wlfc (10,395)

FP 384-317,

A 10

A-13

MALCO REFINERIES, Inc.
SCOUT REPORT

Field: Teas Ext.
Scout Dist. No. 3

COMPANY: Western Drlg. Co. Inc. WELL NO. 1 FARM: Anderson Prichard

County: Lea State: New Mexico Sec. 10 Twp. 20S Rge. 33E

Spud: 3/15/56 Comp.

Loc. FN 330' FE 330' FS FW

3500' Test. Loc.

Contractor: Method:

El. D. F.: Gr.:

MAR 14 RU
MAR 21 D 1177 RB
APR 28 D 2973 L
APR 4 TD 3410 Sd pub. RUT
f 3269-3319 R 48'Sl 5 Shaw
f 3319-20 R 5'Sd 4
APR 11
APR 18 ✓
APR 25 ✓ J. P. Gibbons M. CT.
MAY 2 TD 3410 Sd. PB 3370 S.I.
P 80 3286-3306
3 2 4 /
Did not Recov. L.
MAY 9 TD 3410 Sd PB 3370 2540 Unit
MAY 16 " 3410 " PB 3370 ...
suk. ... 387/EHL 2BW
MAY 23 TD 3410 Sd PB 3370 RUP

FORMATIONS: Penetrated

TA	
TX	
BX	
TYL	
TSR	
TQ	
TGb	
TSA	
TGl	
TCF	
T Tubbs	
T Abo	
T Hueco	
T. Penn.	
T. Miss.	
T. Dev.	
T. Mont.	
T. Simp.	
T. McKee	
T. Ell.	
T. Pre-Cam.	

S/ [illegible]
S/ Bones Potter 2-D181
S/ Gaspin
S/ McCail
S/ Kelly Aye-Shut.
S/

Grav. COR
FCP SICP
FTP SITP

FORM NO. 151 3M 10-56 SPCo.

CASING & CEMENT

Size	Depth	Sax
8 5/8	1470	850
5 1/2	3409	860

COMPLETION RECORD

T. D. PB
T. P.
IPPF
Tubing Ch. @
Packer
Perf.

SHOOTING RECORD

Qts. From
Qts. From
Qts. From
Results

ACIDIZING RECORD

Gal. Zone
Gal. Zone
Gal. Zone
Results

Anadarko ✓

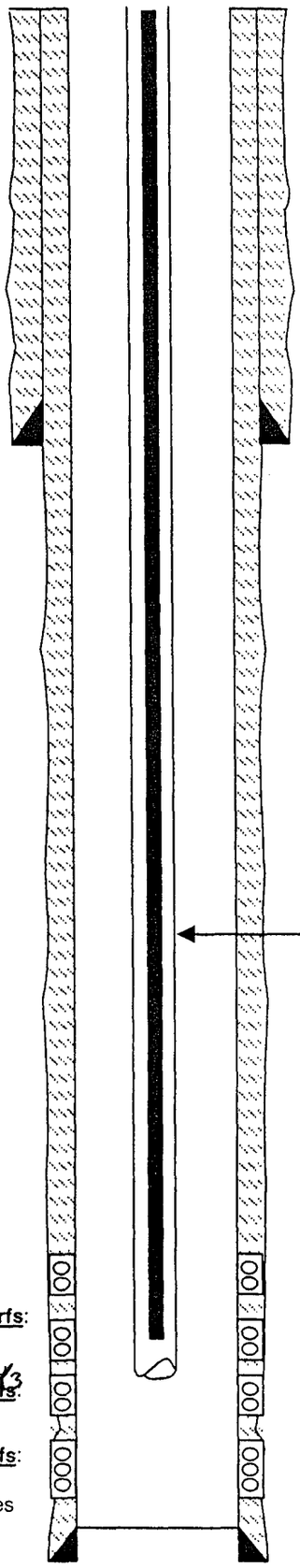
Western ✓

Anadarko GL 3564
Y B 3256
+308

RT. 4

Falcon Creek Resources, Inc.

WTU #931
(Federal "9" #2)
West Teas Field
"B" Section 9, T20S, R33E
Lea County, New Mexico
GL: 3,550'; KB: 3,559'



12-1/4" Hole
1,300' - 8-5/8", 23#, J-55 Casing,
cmt to surface w/ 640 sx "C"

2-3/8" Tubing (~3200')
Rods in hole:
126 3/4" Rods
1.25" Insert Pump

Yates Y1 Perfs:
3062' - 3,073'

Yates Y1 & Y2 Perfs:
3,108' - 3,190'
26 holes

~~**Seven Rivers Perfs**~~ Y3:
3,234' - 3,250'

Seven Rivers Perfs:
3,297' - 3,308'
w/4 JSPF - 44 holes

7-7/8" Hole
3,311' - 5-1/2", 17#, J-55 Casing, cmt w/475 sx Class "C"
Circulate 8 sx to surface

Initial Completion
Spud well 10-7-92
Perf Yates Lower Y1& Y2 Zone
@ 3108'-3190' (26 Holes)
Acidize w/ 1250 gals 7.5% acid
IPP: 89 BOPD, 29 MCFD, 10 BWPD

5/94
Perf Yates Y3 @ 3234'-3250' (32 Holes)
Acidize w/ 15% NeFe

6/94
Perf Zone Upper Y1 from 3062'-3073'
(11 holes)
Frac Y2 w/20,000 gal Xlink gel
& 50,000# 20/40 sd
Frac U & L Y1 w/ 20,000 gal Xlink gel &
45,000# 20/40 sd
IP: 79 BOPD

10/95
Perf Seven Rivers 3302'-3308'
Perf Seven Rivers 3297'-3303'
Acidize w/ 750 gals gelled acid

9/97
Acidize w/ 1000 gals 15% Acid
Dump job down csg flush w/ 100 BW

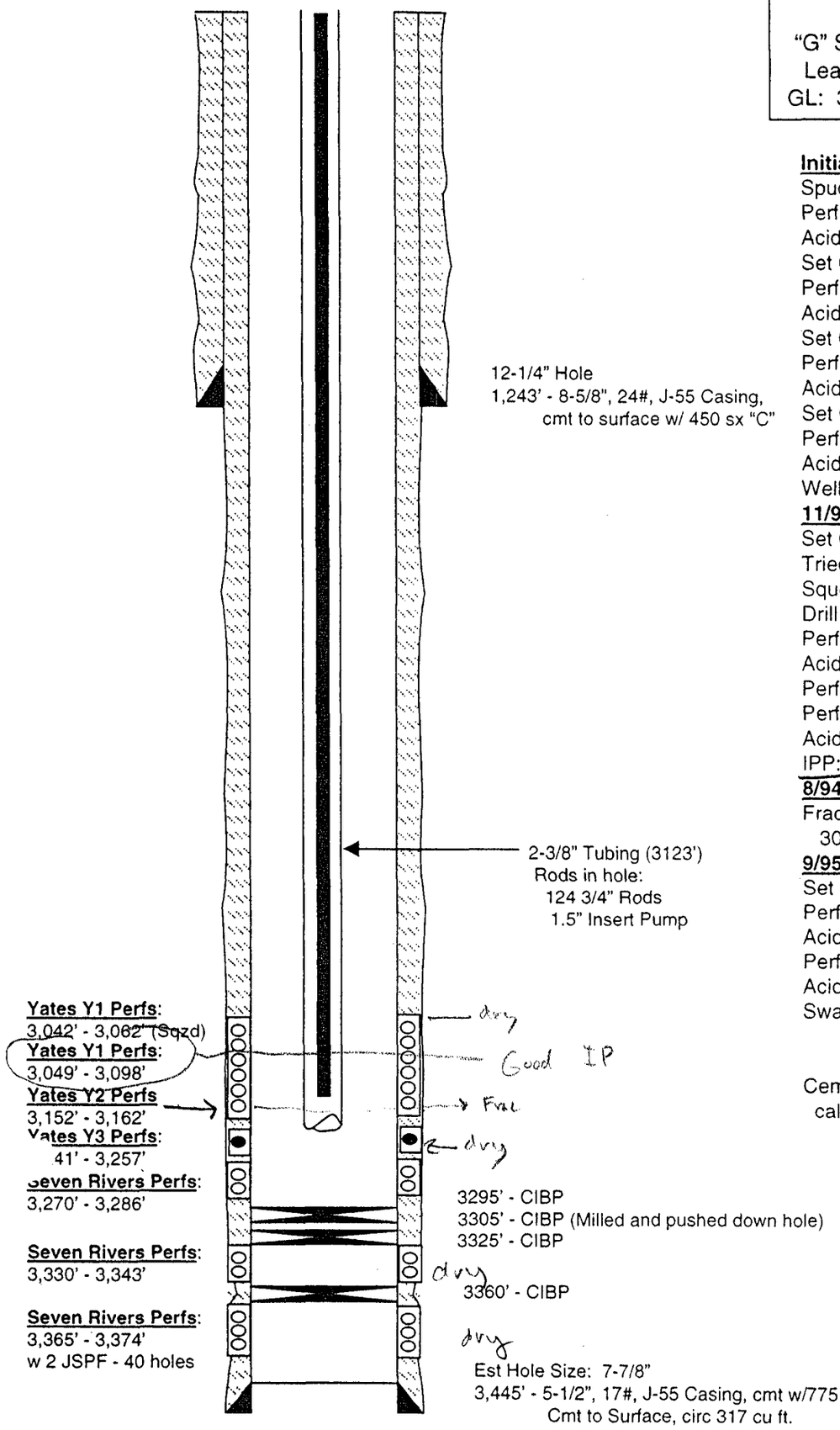
Note: U Y1 not broken after perf
& prior to frac
Note: Y3 never fraced

Cmt information is estimated by calculations.

RT. 4

Falcon Creek Resources, Inc.

WTU #932
(Federal "9" #1)
West Teas Field
"G" Section 9, T20S, R33E
Lea County, New Mexico
GL: 3,545'; KB: 3,556' (11')



Initial Completion
Spud well 11-10-90
Perf 7 Rivers @ 3365'-3367' & 3369-3374'
Acidize w/ 500 gals 15% NeFe
Set CIBP 3360'
Perf 7 Rivers @ 3330'-3343'
Acidize w/ 750 gals 15% NeFe
Set CIBP 3325' w/ 2 sx cmt
Perf Y3 from 3241-3257' (4 holes)
Acidize w/ 1000 gals 15% NeFe acid
Set CIBP 3235'
Perf Y1 3042'-3062' (18 holes)
Acidize w/ 2000 gals 15% NeFe acid
Well Dry.

11/91
Set Cmt retainter @ 2904'
Tried to squeeze w/ 100 sxs "C", displaced
Squeeze w/ 100 sx "C" to 2500#
Drill cmt to 3230'
Perf Y2 3152'-3157' (20 holes)
Acidize w/ 1500 gals NeFe
Perf Y2 3159'-3162'
Perf Y1 3094'-3098', 3049'-3054'
Acidize w/ 1500 gals Methanol
IPP: 99 BO, 36 BW, 98 MCF

8/94
Frac Y2 3152'-3162- w/ 11,800 gal Amfrac w
30,000# 12:20 mesh sand

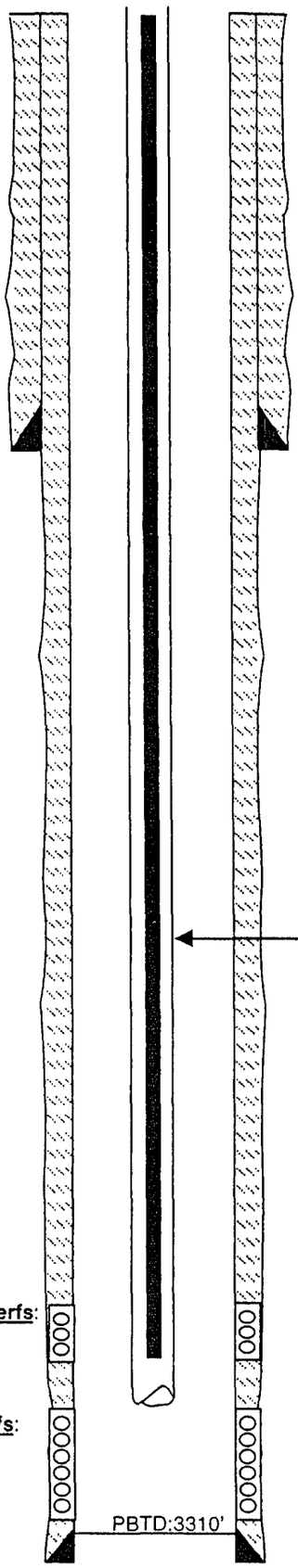
9/95
Set CIBP @ 3295'
Perf 7 Rivers 3278'-3286' (25 holes)
Acidize w/ 750 gal 20% NeFe gelled acid
Perf from 7 Rivers 3270'-3276'
Acidize w/ 1500 gals 20% gel acid.
Swab set 50 BOPD, 30 BWPD

Cement Information is estimated by calculations.

AT. 7

Falcon Creek Resources, Inc.

WTU #942
(Federal "9" #6)
West Teas Field
"H" Section 9, T20S, R33E
Lea County, New Mexico
GL: 3,551'; KB: 3,562'



Initial Completion
Spud well 5-16-94
Perf Seven Rivers @ 3285'-3288' 4 JSPF
Acidize w/1000 gals 15% NeFe
Perf Seven Rivers from 3288'-3300' 1 JSPF
Acidize w/1000 gals 15% NeFe and ?,
Set CIBP @ 3270'
Perf Yates Y1 & Y2 3060'-3176' 2 JSPF
Acidize w/2500 gals 15% NeFe
Frac w/ 42,000 gal xlink gel &
133,000# of 12/20 sd.
IPP: 97 BO, 14 BW, 1 MCF

4/95
CO ~125' sd and drill CIBP, push to PBTD
(added 7R 3285-88' to prod.)

10/96
Tag fill @ 3287, CO to 3310'

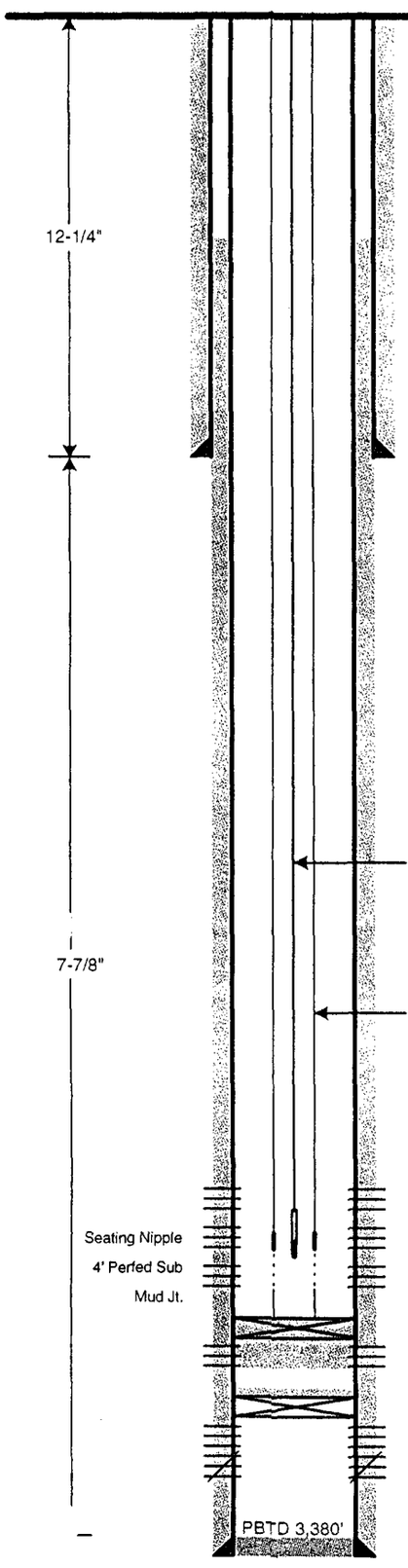
Cement Information is from State Reports

Note: History of 7R frac sd. prod.
May need another clean out

Update: 6/29/00

CURRENT WELLBORE SCHEMATIC
CHESAPEAKE OPERATING INC

WELL : WTU #933 (FORMER GROVER FEDERAL #3)
FIELD : WEST TEAS
COUNTY : LEA **STATE** : NM
LOCATION :"J" SECTION 9-T20S-R33E
ELEVATION : GL 3,541' KB 3,549'
API NO. : 30-025-



TOC @ 600'

Surface Casing:
8-5/8" @ 1,218'
Cmtd. to surface w/ 750 sx

Pump & Rod String:
1-1/4" x 26' PR
1-1/2" x 12' PR liner
4' x 3/4" sub
123-3/4" rods
2' x 3/4" sub
2-1/2" x 1-1/2" x 12' RHBC pump
1" x 16' GA

Tubing String:
99 Jts. 2-7/8" tbg.
SN @ 3,147'
PS @ 3,148'
BPMJ @ 3,152'
EOT @ 3,180'

Yates Y1 Perfs @ 3,040-3,050' OA (2 spf)
Yates Y1 Perfs @ 3,086-3,096' OA (2 spf)
Yates Y2 Perfs @ 3,132-3,146' OA (2 spf)
Cmt. Retainer @ 3,180' w/ 75 sx cmt.
Sqz. Perfs @ 3,206-3,208' (6 spf)
CIBP @ 3,250' w/ 1 sx cmt. (PBTD 3,236')
Seven Rivers Perfs @ 3,260-3,263'
Seven Rivers Perfs @ 3,268-3,276' OA (Sqzd. w/ 25 sx)

Production Casing:
4-1/2" @ 3,420'
Cmtd. w/ 650 sx

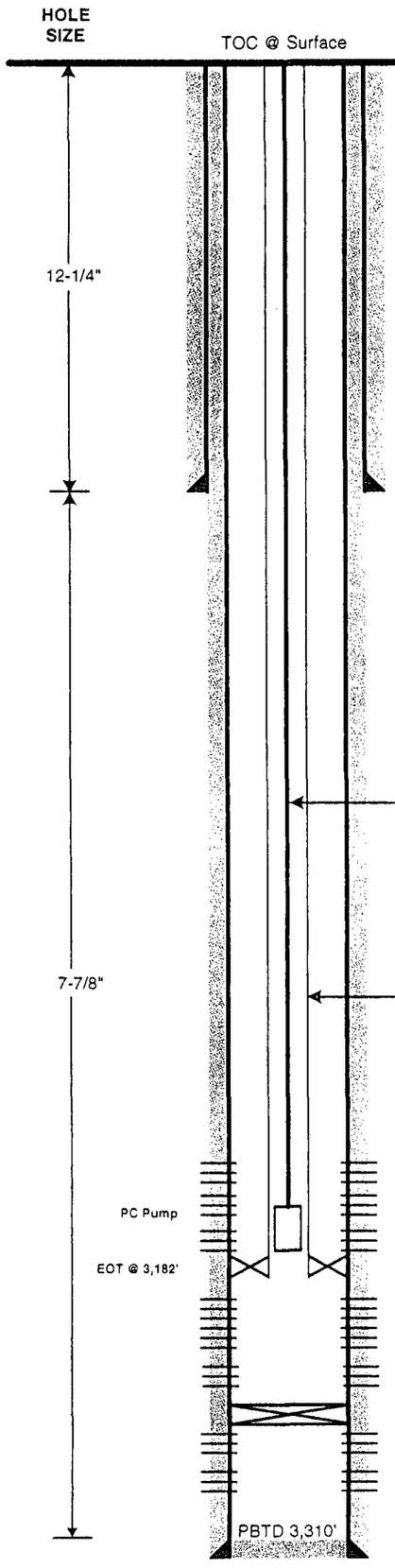
Well History

2-26-88: Spud well
Initial Completion:
Perf Yates Y1 from 3022', 3024', 3034', 3036', 3040', 3043', 3045', 3050', 3086', 3088', 3092', 3094', & 3100' w/ 2 JSPF
Acidize w/ 500 gals of 15% NeFe
Frac w/ 375 BW, 75 tons CO2, & 42,000# of 20/40 sd and 30,800# 12/20
IPP: 85 BOPD; 5 BWPD
9/97: Perf 7 Rivers from 3,268'-3276'. Acidize w/ 750 gal of 15% Ferchek
11/97: Set CICR @ 3240', Sqz 7 Rivers w/ 25 sx "C", Sqz Yates from 3022'-3100' w/ 250 sx "C". Perf 7 Rivers from 3260'-3263' w/ 3 JSPF. Acidize w/ 650 gal 15% NeFe
IPP: 115 BW, 1 BO,
10/98: Set CIBP @ 3250' w/ 20 sx on top.Perf Y2 from 3132'-3142' w/ 2 JSPF. Acidize w/ 500 gal of 15% NeFe.
IPP: 2 BO, 2 BW, 0 MCF
2/25/02: SFL 1683' from surf.
11/2/02: Frac Yates "2". POOH w/ tubulars. Ran bit & scraper. Ran pkr. to 3124'. Started acidizing. Communicated to squeezed Yates "1" perfs. Set pkr. @ 2975'. Tested backside to 1000 psi--OK. Frac w/ 22,766 gal. 60,000# 12/20 sd. ISIP 2190#. Clean out sand to PBTD 3250'. PWOP.
Testing 0 BO, 115 BW
12/11/02: Spot 1 sx cmt. on CIBP @ 3250'. PWOP. All water.
3/6/03: Pull pump, rods, & tbg. RU BOP, GIH w/ 4-1/2" scraper to 3236' PBTD.
3/7/03: Shoot sqz. perfs from 3206-08'. Set Cmt. Retainer @ 3180'. Pump 75 sx 50/50 Pozmix w/ 2% $CaCl_2$. Would not pressure up.
3/8/03: Sting into retainer. Pump 16 bbls. cmt. into sqz. perfs.
3/10/03: GIH w/ bit; tag cmt. @ 3,112'. Drill out cmt. to 3,180'. RU to swab, tag fluid @ 200' FS. Swab down to 2700' FS, total 31 bbls.
3/11/03: RIH w/ swab; FL @ 1200' FS, trace oil. Swab down to SN, swabbed dry after 11 runs. Making 1 hr. runs, 200' fluid entry. RD swab, POOH w/ tbg. SWI.
3/12/03: TIH w/ perf guns. Re-perf Yates 2 @ 3132-46' w/ 2 spf. Re-perf Yates 1 @ 3086-90' & 3040-50' w/ 2 spf. TIH w/ tbg., NU WH. Pumped 10 bbls. fsw dwn tbg, drop SV. Press. tbg up to 300 psi, pumped 500 gal. 15% NeFe down csg. @ 350 psi, 2 bpm. Acid bubbling from around surface pipe. Dug down to surface valves, 2" nipple w/ hole. Replaced nipple and valve, repaired pinhole in 4-1/2" csg. @ welded bell nipple. Could not pump down surface pipe. Pumped 50 bbl fsw dwn 4-1/2" @ 1 bbl/hr. & 500 psi. Did not circ to surface pipe. SISD.
3/13/03: Fish SV. NUWH & BOP, TOOH w/ tbg. string. RIH w/ pkr, repair pinhole in 4-1/2" csg. at ground level. Pressure test csg. at various intervals; held pressure. TOH w/ pkr, TIH w/ BPMJ, PS, SN & 99 jts. tbg. ND BOP, NU WH. Swab; IFL 50' FS, FFL 1100' FS. 37 bbls. water recovered, no gas.
3/14/03: Open well, no pressure. Swab; IFL 800' FS. Made 15 runs, FL stayed @ 2400'. Rec. 54 bbls. water, no gas. RIH w/ BH pump & rods. Hung well on, RDPU.

PREPARED BY: Ginni A. Kennedy **DATE:** 2/18/03
UPDATED BY: Ginni A. Kennedy **DATE:** 3/18/03

CURRENT WELLBORE SCHEMATIC
CHESAPEAKE OPERATING INC

WELL : WTU #943 (FORMER FEDERAL "9" #7)
FIELD : WEST TEAS
COUNTY : LEA **STATE** : NM
LOCATION :"I" SECTION 9-T20S-R33E
ELEVATION : GL 3,548' KB 3,559'
API NO. : 30-025-



Surface Casing:
8-5/8" 24# J-55 @ 1,310'
Cmtd. to surface w/ 800 sx Cl. C

Pump & Rod String:
16' PR
1 - 1" rod
1' x 1" sub
2 - 4' x 1" subs
6' x 1" sub
8' x 1" sub
122 - 1" rods
Rotor - 30.5'

Tubing String:
100Jts. 2-7/8" tbg.
8' x 3-1/2" sub
29' Stator
2' x 3-1/2" sub
2-7/8" x 31' MJ
2-7/8" x 5-1/2" TAC
EOT @ 3,182'

Yates 1 Perfs @ 3,051-3,062' (4 JSPF)
Yates 1 Perfs @ 3,090-3,114' (4 JSPF)
Yates 2 Perfs @ 3,147-3,166' (4 JSPF)
Yates 3 Perfs @ 3,214-3,228' (4 JSPF)
Yates 3Perfs @ 3,236-3,250' (4 JSPF)
Upper Seven Rivers Perfs @ 3,270-77' (2 JSPF)
CIBP @ 3,284'
Seven Rivers Perfs @ 3,290-3,296' (4 JSPF)
Seven Rivers Perfs @ 3,310-3,312' (4 JSPF)

Production Casing:
5-1/2" 15.5# K-55 @ 3,358'
Cmtd. w/ 635 sx Cl. C (circ. 10 sx to surface)

Well History:

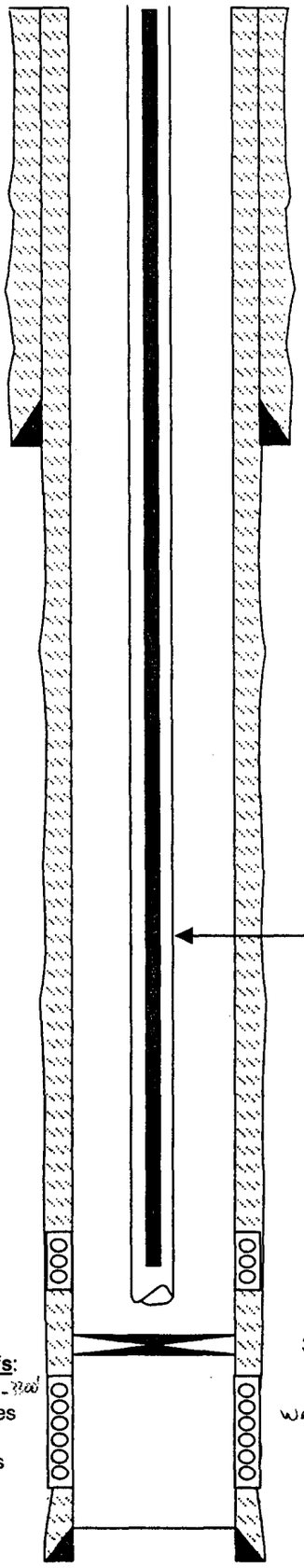
8-28-95: Spud well
Initial Completion:
Perf Seven Rivers @ 3290-3296' 4 JSPF
Acidize w/500 gals 20% NeFe
Perf Seven Rivers from 3310-3312' 4 JSPF
Set Cmt Retainer @ 3304'
Squeeze 3290-3296' w/ 100 sxs "C"
RePerf 3290'-3296'
Acidize w/750 gals 20% gelled acid
Set CIBP @ 3284'
Perf Upper Seven Rivers 3270-3277'
Acidize w/750 gals gelled acid
IPP: 92 BO, 210 BW, 3 MCF
3/8/00: Ran PC pump to increase lift capacity
5/30/00: Perf Y-3@ 3214-3228' & 3236-3250', Y-2 @ 3147-3166', Y-1 @ 3051-3062' & 3090-3114'. Acidize Y-3, 3214-3250' w/ 11 bbls acid + 5 bbls KCL. Broke @ 3500 psi, ISIP 2055 psi, 5 min. 1860 psi, 15 min. 1602 psi. Acidize Y-2 @ 3147-3166' w/ 11 bbls acid + 5 bbls KCL. Broke @ 4000 psi, ISIP 1483 psi, 5 min. 1227 psi, 15 min 796 psi. Acidize Y-1 3051-3114' w/ 11 bbls acid + 6 bbls KCL, Brok e @ 2900 psi, ISIP 1700 psi, 5 min. 1593 psi, 15 min. 1520 psi. Ran cased hole DST's on Y-1, Y-2, & Y-3 intervals.
3/3-14/03: **WO to Frac Yates 1 & 2:** RIH w/ bit & csg. scraper to 3,258'. Set CIBP @ 3,195'. Test csg. to 4000 psi. RU Frac valve. Pump 1500 bbls. acid & 200 BS @ 1614 psi AIP, 1810 psi MIP. No ball action. ISP 1456 psi, 5 min 1144 psi, 10 min 1131 psi. Frac w/ 34,000 gal. X-L gel & 17,000# 16/30 sd. ISP 2121 psi, 5 min 1952 psi, 10 min 1885 psi. SWION. 1100 psi on csg. RIH & Tag sd. @ 3,118'. CO to 3195' w/ foam unit. RU swab, FL @ 1200' FS, trace oil. Swab to 2300' FS, 40 psi on csg, GSOG, 10% oil cut. RIH w/ bit and DO CIBP @ 3195' & CO to 3284'. RIH w/ TAC, tbg., rods & PC pump. Start unit, pumped up in 7 min. RDMO PU.
4/4/03: Rod part. RU & pull 78-1" rods. Pin stripped out. GIH & catch fish. Rpl. rod, GIH w/ 78-1" rods. Press. up to 500 psi; RDMO.
4/5/03: Rig back up; PR clam slipped. Put new clamp on--well pumping good. RDMO.

PREPARED BY: Ginni A. Kennedy **DATE:** 3/19/03
UPDATED BY: Ginni A. Kennedy **DATE:** 4/25/03

RT. 4

Falcon Creek Resources, Inc.

WTU #944
(Federal "9" #8)
West Teas Field
"P" Section 9, T20S, R33E
Lea County, New Mexico
GL: 3,546'; KB: 3,567'



12-1/4" Hole
1,313' - 8-5/8", 24#, J-55 Casing,
cmt to surface w/800 sx "C"

2-7/8" Tubing (3240')
Rods in hole:
12 1" Rods
8 7/8" Rods
109 3/4" Rods
2.5" Insert Pump

Yates Y1 Perfs:
3,116' - 3,144'
holes

Seven Rivers Perfs:
3,308' - 3,314' 3240-3300'
w/ 2 JSPF - 12 holes
3,316' - 3,318'
w/ 2 JSPF - 8 holes

3,275' - CIBP

wet

7-7/8" Hole
3,462' - 5-1/2", 17#, J-55 Casing, cmt w/610 sx Class "C"
Circulate 55 sx to surface

Initial Completion
Spud well 7-12-96
Perf Seven Rivers @ 3316'-3318' (8 holes)
Acidize w/ 500 gals gelled 15% HCl
Perf 3290-3300'
Swab 100 BWPD
Acidize w/ 2000 gals gelled 15% HCl
Frac w/ 24,000# 20/40 sd
Perf Yates L. Y1 from 3116'-3144' - 57 holes
Acidize w/ 2000 gals 15% NeFe
Frac w/ 30,600# 12/20 sd and 388 bbls Borate gel
Perf Addt'l 7Rivers 3308'-3314' - 12 Holes
Acidize w/ 1000 gal 15% NeFe
Set CIBP @ 3275' - PB over 7 Rivers
IPP: 60 BOPD, 17 MCFD, 2 BWPD (Y1)

Cement Information is from State Reports

WELLBORE SCHEMATIC

WELL : **ANASAZI 9 FEDERAL #1 (MITCHELL ENERGY CORP.)**

FIELD : **WILDCAT**

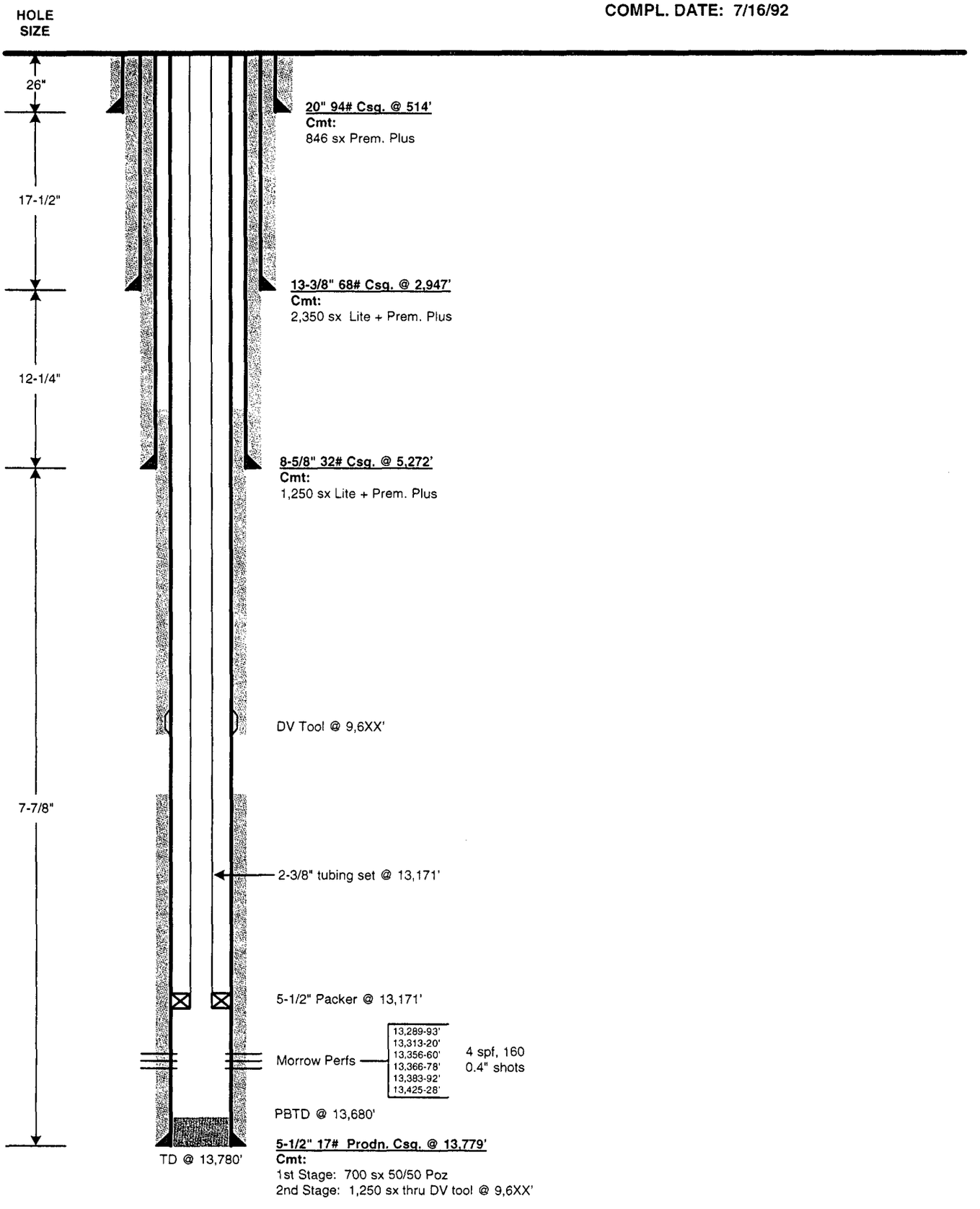
LOCATION : **1,980' FNL & 1,980' FEL, UNIT G, SEC. 9-T20S-R33E**

COUNTY : **LEA** **STATE : NM**

SERIAL NO. : NM 57280

ELEVATION : GL - 3,546'

SPUD DATE: 5/13/92
TD DATE: 6/29/92
COMPL. DATE: 7/16/92



PREPARED BY: Ginni A. Kennedy **DATE:** 6/5/03

UPDATED BY: _____ **DATE:** _____

WTU 945 - C108 - Item VII

1. The average daily rate will approximate 500 BWPD, a maximum rate of 750 BWPD, total volume will approach 1 million bbls.
2. Per the unitization hearings and the original order, this system is closed.
3. Average pressure will approach 600 psi. Maximum authorized pressure is currently .2 psi per foot or approximately 600 psi.
4. Water is reinjected from unitized zones
5. NA.

WTU 945 - C108 - Item IX

The Yates is typically stimulated as follows:

1. Tie onto casing. Establish rate and bull head 1000 gallons of 15% NeFe acid into the Yates '3'. Launch 14 balls throughout job. Note rates and pressures. Surge balls off perfs. Fracture the Yates '3' with 20,000 gal of gelled borate containing 40,000# of 20/40 sand per the attached treatment schedule. Maintain rates approaching 30 BPM, max pressure 4000 psi.

2. Set a CIBP @ 3,200'. Run casing gun and perforate the Yates '2' 3,142 – 3,170' (28') w/ 1 SPF, 23 gram charge, 60 degree phasing.

3. Tie onto casing. Establish rate and bull head 1000 gallons of 15% NeFe acid into the Yates '2'. Launch 28 balls throughout job. Note rates and pressures. Surge balls off perfs. Fracture the Yates '2' with 40,000 gal of gelled borate containing 75,000# of 20/40 sand per the attached treatment schedule. Maintain rates approaching 30 BPM, max pressure 4000 psi.

4. Set a CIBP @ 3,130'. Run casing gun and perforate the Yates '1L' 3,082 – 3,115' (33') and Yates '1U' 3,038 – 3,159' (21') w/ 1 SPF, 23 gram charge, 60 degree phasing.

5. Tie onto casing. Establish rate and bull head 1000 gallons of 15% NeFe acid into Yates '1'. Launch 54 balls throughout job. Note rates and pressures. Surge balls off perfs. Fracture the Yates '1' with 40,000 gal of gelled borate containing 75,000# of 20/40 sand per the attached treatment schedule. Maintain rates approaching 30 BPM, max pressure 4000 psi.

Chesapeake
Natural Gas.
Natural Advantages.

Geology Department

May 6, 2003

To: Andrew McCalmont
Assett Manager
Chesapeake Energy Corporation.

Having reviewed all pertinent geologic data within 2 miles of the West Teas Yates - Seven Rivers Unit, it is my opinion that there is no evidence of open faults or any hydrologic connection between the Yates-Seven Rivers Reservoirs and any known underground sources of drinking water.

Sincerely,

Doug Bellis
Geologist
Chesapeake Energy Corporation

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of 6

weeks.

Beginning with the issue dated

May 16 2003

and ending with the issue dated

May 22 2003

Kathi Bearden

Publisher

Sworn and subscribed to before me this 22nd day of

May 2003

Jodi Henson

Notary Public.

My Commission expires
October 18, 2004
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
May 16, 17, 18, 20, 21, 22, 2003

PROPOSED INJECTION WELLS

Chesapeake Operating, Inc. proposes the conversion of the following described wells to water injection service for the existing waterflood Order No. R-11375; West Teas (Yates Seven Rivers) Unit 913, 1980' FSL & 660' FWL, Section 9-20S-33E, West Teas (Yates Seven Rivers) Unit 941, 330' FNL & 990' FEL, Section 9-20S-33E, West Teas (Yates Seven Rivers Unit 443, 1650' FSL & 660' FEL, Section 4-20S-33E, West Teas (Yates Seven Rivers Unit 924, 2560' FNL & 2210' FWL, Section 9-20S-33E, West Teas (Yates Seven Rivers 9452612' FNL & 330' FEL. All wells are located in Lea County, New Mexico. The zones to be injected into are the Yates Sand from 3000' to 3300' with a maximum injection rate of 600 BWPD/well at a maximum pressure of 600 psi. Any interested parties with objection or request for hearing should notify the Oil Conservation Divsion at P.O. Box 2088, Santa Fe, New Mexico 87501 within 15 days of this notice. Any questions should be directed to Andrew McCalmont, Agent for Chesapeake Operating, Inc., at P.O. Box 18496, Oklahoma City, OK 73118, telephone number 405-848-8000, ext. 7852.
#19820

01104307000 02563986

Chesapeake Operating, Inc.
P.O. Box 18496
Oklahoma City, OK 73154-0496

Form 3160-5
(June 1990)

N.M. Oil Cor
P.O. Box 1980
Hobbs, NM 88241

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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 resevoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
SHACKELFORD OIL COMPANY

3. Address and Telephone No.
P.O. Box 1065 Midland, TX 79702 (915) 682-9784

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SW 1980 FNL AND 660 FEL SECTION 10 T20S R33E

5. Lease Designation and Serial No.
NMNM 17439

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Tarth Federal #1

9. API Well No.
30-025-29265

10. Field and Pool, or Exploratory Area
UNDESIGNATED

11. County or Parish, State
LEA

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
	☐ Recompletion	☐ New Construction
☒ Subsequent Report	☒ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ 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 thei work.)*

1) Set CIBP at 6720'
2) Perforated from 6524-6534
3) Acidize w/ 1000 gallons of 15% NEFE Acid and Fraced w/ 30,000 # of 20-40 SAND
4) Put well back on to production.

ACCEPTED FOR RECORD
(ORIG. SGD.) DAVID R. GLASS
SEP 29 1998
BLM

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

Signed _____ Title President Date 7/20/98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictious or fraudulent statements or representations as to any matter within its jurisdiciton.

*See Instruction on Reverse Side