

Five Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87401
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-105
July 17, 2008

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
MAY 18 2009
HOBBS

1. WELL API NO.
30-025-30512
2. Type Of Lease
☒ STATE ☐ FEE ☐ FED/INDIAN
3. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing: ☐ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17 13.K NMAC)						5. Lease Name or Unit Agreement Name Eunice Monument South Unit					
9. Type of Completion ☐ NEW WELL ☐ WORKOVER ☐ DEEPENING ☒ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER						6. Well Number 643					
8. Name of Operator XTO Energy Inc.						9. OGRID Number 005380					
10. Address of Operator 200 N. Loraine, Ste. 800 Midland, TX 79701						11. Pool name or Wildcat Eunice Monument; Grayburg-San Andres					
12. Location	Unit Letter	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County	
Surface:	X	6	21S	36E		1275'	South	1275'	East	Lea	
BH: BHL: Q/I-06-21s-36e, 2485/S & 779/E											
13. Date Spudded 2-9-89		14. Date T.D. Reached 03-25-08		15. Date Rig Released 3-25-08		16. Date Completed (Ready to Produce) 04-08-08		17. Elevations (DF & RKB, RT, GR, etc.) 3577' GL, 3590' KB			
18. Total Measured Depth of Well 5236' MD & 3936' TVD			19. Plug Back Measured Depth 3955'			20. Was Directional Survey Made		21. Type Electric and Other Logs Run			
22. Producing Interval(s), of this completion - Top, Bottom, Name											

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

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
Same as Original					

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	3655'	3655'

26. Perforation record (interval, size, and number)

~~3848' - 3936'~~
3843' - 5236' OH
Per KW

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3848' - 3936'	Sqzd 5-1/2" csq leak fr 41'-46'
3843' - 5236'	w/50 sks class "C" & 2% CaCl @ 1.5 BPM. Circ 2 sks to pit.
Per KW	

28. PRODUCTION

Date First Production NA		Production Method (Flowing, gas lift, pumping - Size and type pump)					Well Status (Prod. or Shut-in) Inject	
Date of Test NA	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)		

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

30. Test Witnessed By

31. List Attachments

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit

33. If an on-site burial was used at the well, report the exact location of the on-site burial.

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
Signature Kristy Ward Printed Name Kristy Ward Title Regulatory Analyst
E-mail address kristy.ward@xtoenergy.com
Latitude Longitude NAD: 1927 1983
Revised 4/28/04
Date 1/07/09

File

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division 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 radio-activity 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 25 through 29 shall be reported for each zone. The form is to be filed in triplicate 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

T. Anhy 1165
 T. Salt 1320
 B. Salt 2600
 T. Yates 2960
 T. 7 Rivers 3100
 T. Queen 3418
 T. Grayburg 3742
 T. San Andres
 T. Glorieta
 T. Paddock
 T. Blinbry
 T. Tubb
 T. Drinkard
 T. Abo
 T. Wolfcamp
 T. Penn
 T. Cisco (Bough C)

T. Canyon
 T. Strawn
 T. Atoka
 T. Miss
 T. Devonian
 T. Silurian
 T. Montoya
 T. Simpson
 T. McKee
 T. Ellenburger
 T. Gr. Wash
 T. Delaware Sand
 T. Bone Springs
 T.
 T.
 T.

Northwestern New Mexico

T. Ojo Alamo
 T. Kirtland-Fruitland
 T. Pictured Cliffs
 T. Cliff House
 T. Menefee
 T. Point Lookout
 T. Mancos
 T. Gallup
 Base Greenhorn
 T. Dakota
 T. Morrison
 T. Todilto
 T. Entrada
 T. Wingate
 T. Chinle
 T. Permian
 T. Perm "A"

T. Penn. "B"
 T. Penn. "C"
 T. Penn. "D"
 T. Leadville
 T. Madison
 T. Elbert
 T. McCracken
 T. Ignacio Otzie
 T. Granite
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 T.

OIL OR GAS SANDS OR ZONES

No. 1, from to
 No. 2, from to
 No. 3, from to
 No. 4, 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

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
1165	1320	155	Rustler (Anhy)				
1320	2600	1280	Salt				
2960	3100	140	Sand & Anhy.				
3100	3418	318	Sand, Dolomite & Anhy.				
3418	3742	324	Sand & Dolo				
3742	4053	311	Dolomite w/ SAND STAINING				

RECEIVED

JUL 11 1939

UPDATED WELLBORE DIAGRAM

FIELD: EMSU

WELL NAME: EMSU 643

FORMATION: Grayburg

LOC: 1275' FSL & 1275' FEL
TOWNSHIP: 21S
RANGE: 36E Unit B

SEC: 6
COUNTY: Lea
STATE: NM

GL: 3577' (DF)
KB: 3590'
DF:

CURRENT STATUS: Shut-In Producer
API NO: 30-025-30512
CHEV NO: IQ5854:01

Sq'z'd 5-1/2" csg leak w/ 50 sx
f/ 41'-46'

8-5/8", 24#/ft, Surf. Pipe
set @ 1224' w/ 800 SX
CMT. TOC @ Surf' by circ.
Cmt. Circ.? Yes

112 JTS 2-3/8" 4.7#, J-55 EUE IPC
tbq (TK-70), AS1-X PKR
w/ T-2 on/off tool w/ 1.781 "F"
PN w/ WL entry guide
Landed @ 3655'.

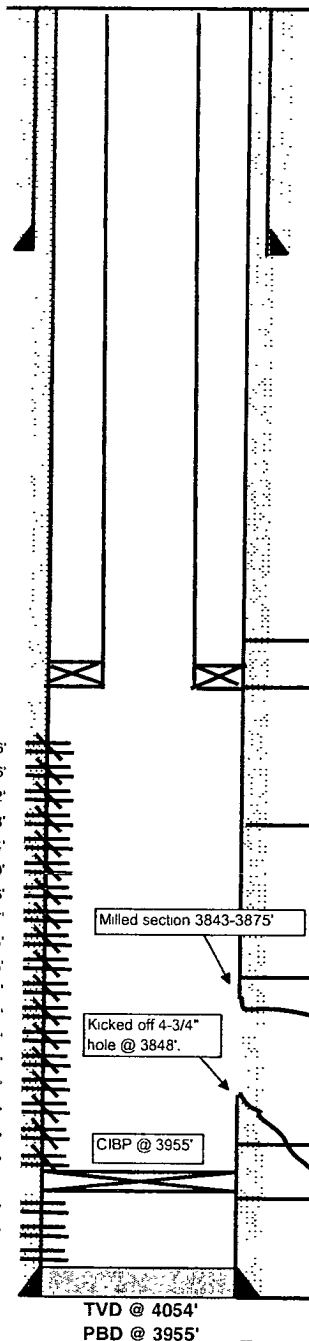
5-1/2", 15.5#/ft, csg set @
4050' w/ 800 sxs cmt.
TOC @ Surf. by calc.
Cmt. Circ.? Yes

S
q
u
e
e
z
e
d
w/
3
8
B
B
L
S

C
M
T

3697-3706'
3710-26'
3728-32'
3742-48'
3750-54'
3768-70'
3778-96'
3800-07'
3810-15'
3822-26'
3834-38'
3848-52'
3854-56'
3860-64'
3870-72'
3781-85'
3898-3902'
3906-40'

3968-82'
4002-06'
4010-20'



TVD @ 4054'
PBD @ 3955'

QN

PNR

Z1

Z2

Z3

Z4

Z5

Z6

Milled section 3843-3875'

Kicked off 4-3/4"
hole @ 3848'.

CIBP @ 3955'

Horizontal (90 deg) @ MD of between
4017-4048'

5236' TD (MD)
3936.7' TVD

4-3/4" OH

TVD Horizontal (90 deg) @ 3936 7'

Date Completed: 6-89
Initial Production: 4 BOPD / 104 BWPD / GOR 15,000
Initial Formation: Grayburg From: 3848' To: 4020'
Completion Data:
Perf 4002-06 & 4010-20 w/ 2 JHPF Trtd w/ 400 gal 15% NeFeA Swb 0 BO/24 BW 1 hr , 6 hr swb 2 BO/23 BW, FFER = 1.1 BPH Perf 3898-3902, 3906-40, 3944-48, 3968-82 w/ 2 JHPF ACDZ 3898-3948 w/ 3150 gal 15% NeFeA & 224 RCNBs Swb 1st perf 3898-3982, rec 5 BO/ 128 BW FER 16 BPH Put on pump Test 5 BO/ 82 BW/ 51 MCFPD REACDZ perf 4002-22, 3968-82 in comm w/ upper perfs Ran temp & tracer survey Indicated channel fr bottom SQZ 3990-4020 w/ 50 SX D/O cmt ACDZ all open perfs w/ 3250 gal 15% NeFeA in 4 stages using GRS block Test 3 BO/ 63 BW/ 51 MCFPD
Workover History:
5/89 Set RBP @ 3985', pkr @ 3954'. Swb z4 (3968-82), rec 105 BW, 5 runs EFL 3900' Swb 9 BW 5 runs. EFL=3900' Set RBP 3954', pkr @ 3879' Swb z3 (3898-3948) 5 BW, 3 runs EFL=3800' FER= 3 BPH Set RBP @ 3985', pkr @ 3954' Pmp 100 BBL red dye wtr in ann Swb z4, rec 10 BBL red water. Ran prod tubing
6/89 PB w/ sd to 3990'. Set CIBP @ 3848'. SQZD z3 (3898-3948) w/ 200 SX. CO, D/O to 4040' Perf 3848-52, 3854-56, 3860-64, 3870-72, 3881-85, 3898-3902, 3906-26, 3968-82, 4002-06 & 4010-22 (2 JHPF). Selectively ACDZ perfs 3898-4022 w/ 1550 gal 15% NeFeA, swb - Fe=0 ReACDZ w/ 1600 gal gelled 15% NeA & RCNBs Swb 39 BW FER = 8 BPH Swb 9 BW EFL=3600' FER = 0 ACDZ 3845-85 w/ 1200 gal 15% NeFeA & RCNBs Swb 35 BW, EFL=3500, swb 28 BW 4 hrs. EFL=3600' Put on prod. Test 4 BO/104 BW/ 60 MCFPD FL=0 Chemical squeeze on 7/89 and on 3/90.
4/91 Perf 3778-86, 3822-26, 3834-38 w/ 2 JHPF ACDZ new perfs w/ 1500 gal 15% NeFeA. Final swb 5 BBL in 3 runs IFC=15% oil FFC=Tr oil. Ret to prod. Test 1 BO/ 136 BW/ 21 MCFPD FL @ 3N
12/92 Install larger pumping unit. Test 0 BO/225 BW/ 11 MCFPD, FL=0. SI w/o well study
8/93 Perf 3697-3706, 3710-26, 3728-32, 3742-48, 3750-54, 3768-70, 3778-86, 3786-96, 3800-07, 3810-15 (2 JHPF) ACDZ w/ 4250 gal 15% NeFeA & 426 RCNBs. Swb 64 BW & 77 BW, test 15 BO/ 697 BW/ 36 MCFPD. B14 = SI.
6/96 Run gauge ring 3400-3980 Set CIBP @ 3958' Set CIBP @ 3679'. SQZD perfs 3697-3948 w/ 38 BBL CMT. SQZD to 1200 psi & 150 SX. D/O cmt to 3958, no cmt last 16' Cut 5-1/2" csg w/ section mill @ 3843' (top) - 3875' w/ Enterra C-75 section mill. Set kick-off plug f/ 3939-3688 Drill/dress off plug f/ 3688-3848'. GIH w/ gyro, run surveys. Time drill 3848-3912' 4-3/4" hole (curved section outside the csg.) (42 degree incline @ 3910'). GIH w/ pkr, set @ 3809'. Attempt to pmp in to OH. Inj rate = 0.33 BBL @ 1000 psi. Did not pmp Marascal for perm streaks in bend z2 Cont'd drilling curve. Horiz. @ ~4017-4048' (incl=88 4-91 8 degrees) MD TVD = 3936.7'. Cont'd drilling 4314' horiz to 5236' MD (TVD=3871 9') STIM horiz. sect. w/ 5000 gal Resisol II & 60000 gal 15% NeFeA w/ Rotojet wash tool on coil tbq. Retr in 3 wks. N2 jetted 5-1/2" csg @ 500 scf/m, hit ledge w/ coil tbq going thru bend. Work, no success. GIH w/ 10' stiff straight bar & 90g jet tool Went thru bend OK, trtd horiz. w/ 1000 gal 30% methanol & water Put on prod. w/ KUDU
8/96 Pump 450 bbls clean plug to plug horizontal section. Drill out kickoff 3842-48. DRLG cmt to 3955. D/O CIBP. ACDZ w/ 1500 gals 15% AntiSludge HCl, swb RIH w/ PE. RTP.
3/08 Convert well to injector RIH w/ bit & scraper to KOP @ 3842' Circ TCA w/ 100 BFW w/ 50 gals R-2264, comm out surf valve. Sq'z'd 5-1/2" csg leak f/ 41'-46' w/ 50 sx cmt, circ 2 sx to pit. DO cmt. RIH w/ injection equipment. Inj pkr set @ 3655'
PROD LOG: 4/89 - major oil & water entry 3935-40, 88 BFPD up, 290 BFPD crossflow down to 3968-82'. Major gas entry @ 3900'.
Additional Data:
T/Queen Formation @ 3420' T/San Andres Formation @ 4172'
T/Penrose Formation @ 3568' KB @ 3590'
T/Grayburg Zone 1 @ 3754'
T/Grayburg Zone 2 @ 3824'
T/Grayburg Zone 3 @ 3896'
T/Grayburg Zone 4 @ 3992'