

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

2007 AUG 30 AM 10: 57

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED
ELN

210 FARMINGTON, NM

1 Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		7. IF Unit or CA/Agreement, Name and/or No
2 Name of Operator XTO Energy Inc.		8 Well Name and No VAQUEROS CANYON #1
3a Address 2700 Farmington, K-1, Farmington, NM 87401	3b Phone No (include area code) 505-324-1090	9 API Well No 30-039-27679
4 Location of Well (Footage, Sec, T, R, M., or Survey Description) SHL: 1370' FNL & 665' FEL SEC 10"H"-T29N-R4W BHL: 665' FSL & 1900' FEL SEC 10"O"-T29N-R4W		10 Field and Pool, or Exploratory Area CHOZA MESA PICTURED CLIFFS
		11 County or Parish, State RIO ARriba NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>CHANGE DRLG</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	<u>PROGRAM</u>
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

XTO Energy Inc. proposes to amend the target formation in this well from Fruitland Coal to Choza Mesa Pictured Cliffs per attached drilling procedures.

RCVD SEP 5 '07

OIL CONS. DIV.

DIST. 3

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

HOLD 0104 FOR Directional Survey
2 As drilled C-102

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) HOLLY C. PERKINS	Title REGULATORY COMPLIANCE TECH
<i>Holly C. Perkins</i>	Date 8/30/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <u>Troy L. Salvors</u>	Title <u>Petroleum Engineer</u>	Date <u>8/31/2007</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office <u>FFO</u>	

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

XTO ENERGY INC.

Vaqueros Canyon #1

Drilling Program

August 30, 2007

Surface Location: 1370' FNL & 665' FEL, Sec. 10, T29N, R4W

Bottomhole Location: 660' FSL & 1900' FEL, Sec. 10, T29N, R4W

County: Rio Arriba Co.

State: New Mexico

GREATEST PROJECTED TVD: 3840'

APPROX GR ELEV: 6949'

GREATEST PROJECTED MD: 6580'

Est KB ELEV: 6961' (12' AGL)

OBJECTIVE: Pictured Cliffs

1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 3663'	3663' to TD
HOLE SIZE	12.25"	8.75"	6.125"
MUD TYPE	FW/Spud Mud	LSND/Gel	FW & Polymer/LSND
WEIGHT	8.6-9.0	8.4-8.8	NA
VISCOSITY	28-32	28-32	NA
WATER LOSS	NC	5-6	NC

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. Use Fruitland Coal produced water as make-up water for mist fluid. Pump enough fluid to dampen vibration at directional BHA. If directional control is not maintainable in air/mist environment convert to polymer mud.

2. CASING PROGRAM:

Surface Casing: 9.625" casing to be set at $\pm 360'$ in a 12-1/4" hole filled with 8.40 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
0'-360'	360'	36.0#	J-55	ST&C	2020	3520	394	8.921	8.765	12.85	22.4	30.4

Production Casing: 7" casing to be set at $\pm 3663'$ MD. 3514" TVD in an 8.75" hole filled with 8.4 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
0'-3663'	3663'	23#	J-55	ST&C	4320	4980	334	6.276	6.151	2.81	3.24	3.96

Production Liner: 4.5" casing to be set at $\pm 6645'$ MD. 3645' TVD in a 6 1/8" hole filled with 8.4 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll ¹	SF Burst ²	SF Ten ³
3600'-6645'	3045'	10.5	J-55	ST&C	4010	4790	132	4.052	3.927	2.52	3.00	4.13

¹Collapse SF is based on evacuated annulus and hydrostatic at TVD.

²Burst SF is based on evacuated casing and hydrostatic at TVD.

³Tensile SF is based on hanging air weight of casing in a vertical hole at measured depth.

3. **WELLHEAD:**

- A. Casing Head: WHI QDF System (or equivalent), 9-5/8" x 7", 3,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread ST&C pin end on bottom and 4-1/2" slips on top (if tie-back string is utilized).
- B. Tubing Head: WHI W2F (or equivalent), 7.063" nominal, 5,000 psig WP (5,000 psig test), 5-1/2" slip-on or weld-on.

4. **CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both surface and intermediate casing strings):**

- A. Surface: *Previously set.*
- B. Production Casing: *Previously Set*
- C. Production Liner: 4.5", 10.5#/ft, J-55, ST&C casing is to be set at 3600' MD, 3486' TVD in 6.125" hole.

The production liner will be set using an uncemented liner hanger. The liner may be tied back to surface during the completion of the well.

5. **LOGGING PROGRAM:**

- A. Mud Logger: A geologic consultant or unmanned mud logging unit will begin logging the well once the surface shoe is drilled out and remain on the well to TD.
- B. Open Hole Logs as follows: Gamma ray and possibly Resistivity logs will be run from surface shoe to TD. A pilot hole will be drilled at a 35 degree angle to the top of the Picture Cliffs. The pilot hole will be logged with Array Induction/SFL/GR/SP fr/TD (4024') to the bottom of the surface csg Run Neutron/Lithodensity/Pe/GR/Cal from TD (4024') to the bottom of the surface casing.

6. **FORMATION TOPS:**

Est. KB Elevation: 6961'

Please see directional program for estimated formation tops.

**** Maximum anticipated BHP should be <1,200 psig (<0.30 psi/ft) ****

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
John Egelston	Drilling Engineer	505-564-6734	505-330-6902
Jerry Lacy	Drilling Superintendent	505-566-7917	505-320-6543
John Klutsch	Project Geologist	817-885-2800	--

XTO Energy

San Juan Basin (NAD 83)

Vaqueros Canyon #1

Vaqueros Canyon #1

Vaqueros Canyon #1 Sidetrack to PC

Plan: Initial Sidetrack

Standard Planning Report

30 August, 2007

XTO Energy, Inc.

Planning Report

Database:	EDM 2003 14 Single User Db	Local Co-ordinate Reference:	Well Vaqueros Canyon #1
Company:	XTO Energy	TVD Reference:	Rig KB @ 6961 0ft (AWS #507)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 6961 0ft (AWS #507)
Site:	Vaqueros Canyon #1	North Reference:	True
Well:	Vaqueros Canyon #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Vaqueros Canyon #1 Sidetrack to PC		
Design:	Initial Sidetrack		

Project	San Juan Basin (NAD 83), San Juan Co., NM, Directional wells in T30N, R12W (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Vaqueros Canyon #1, T29N, R04W		
Site Position:		Northing:	ft
From:	None	Easting:	ft
Position Uncertainty:	0 0 ft	Slot Radius:	"
		Latitude:	
		Longitude:	
		Grid Convergence:	0 00 "

Well	Vaqueros Canyon #1, 5 deg/100' to 40 deg and 15 deg/100' to 90 deg		
Well Position	+N-S	0 0 ft	Latitude: 30° 42' 36 034 N
	+E-W	0 0 ft	Longitude: 116° 28' 58 264 W
Position Uncertainty	0 0 ft	Wellhead Elevation:	6,949 0 ft
		Ground Level:	6,949 0 ft

Wellbore	Vaqueros Canyon #1 Sidetrack to PC		
Magnetics	Model Name	Sample Date	Declination
	User Defined	8/29/2007	(°)
			0 00
		Dip Angle	(°)
			0 00
		Field Strength	(nT)
			0

Design	Initial Sidetrack		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 3,778 0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(ft)	(ft)	(ft)
	0 0	0 0	0 0
			Direction
			(°)
			200 83

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
3,778 0	73 50	204 20	3,549 2	-562 4	-264 5	0 00	0 00	0 00	0 00	
3,808 0	73 50	204 20	3,557 8	-588 7	-276 3	0 00	0 00	0 00	0 00	
4,416 0	90 00	199 33	3,644 7	-1,145 4	-498 3	2 83	2 71	-0 80	-16 29	
6,646 4	90 00	199 33	3,644 7	-3,250 1	-1,236 5	0 00	0 00	0 00	0 00	Vaqueros Cyn #1 @ f

XTO Energy, Inc.

Planning Report

Database: EDM 2003 14 Single User Db
Company: XTO Energy
Project: San Juan Basin (NAD 83)
Site: Vaqueros Canyon #1
Well: Vaqueros Canyon #1
Wellbore: Vaqueros Canyon #1 Sidetrack to PC
Design: Initial Sidetrack

Local Co-ordinate Reference: Well Vaqueros Canyon #1
TVD Reference: Rig KB @ 6961 0ft (AWS #507)
MD Reference: Rig KB @ 6961 0ft (AWS #507)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00
402 0	1 94	71 58	401 9	2 2	6 5	-4 3	0 48	0 48	0 00
900 0	0 69	92 83	899 8	4 7	17 4	-10 6	0 27	-0 25	4 27
1,400 0	0 88	32 20	1,399 7	7 8	22 5	-15 3	0 16	0 04	-12 13
1,904 0	0 31	41 70	1,903 7	12 1	25 5	-20 3	0 11	-0 11	1 88
2,092 0	0 69	19 58	2,091 7	13 5	26 2	-21 9	0 22	0 20	-11 77
2,122 0	0 63	28 45	2,121 7	13 8	26 3	-22 3	0 39	-0 20	29 57
2,154 0	1 19	14 83	2,153 7	14 3	26 5	-22 8	1 86	1 75	-42 56
2,184 0	1 19	23 45	2,183 7	14 9	26 7	-23 4	0 60	0 00	28 73
2,215 0	0 94	12 45	2,214 7	15 4	26 9	-24 0	1 04	-0 81	-35 48
2,245 0	0 31	51 33	2,244 7	15 7	27 0	-24 3	2 42	-2 10	129 60
2,276 0	0 63	196 58	2,275 7	15 6	27 0	-24 2	2 91	1 03	468 55
2,306 0	1 81	207 83	2,305 7	15 0	26 7	-23 6	3 99	3 93	37 50
2,336 0	2 88	218 58	2,335 7	14 0	26 1	-22 4	3 84	3 57	35 83
2,367 0	4 25	216 20	2,366 6	12 5	24 9	-20 5	4 44	4 42	-7 68
2,398 0	5 50	216 08	2,397 5	10 4	23 3	-18 0	4 03	4 03	-0 39
2,428 0	6 06	215 83	2,427 3	7 9	21 6	-15 1	1 87	1 87	-0 83
2,459 0	7 50	217 33	2,458 1	5 0	19 4	-11 5	4 68	4 65	4 84
2,488 0	8 50	214 83	2,486 8	1 7	17 0	-7 6	3 65	3 45	-8 62
2,519 0	9 69	212 20	2,517 4	-2 4	14 3	-2 9	4 07	3 84	-8 48
2,550 0	11 44	212 20	2,547 9	-7 2	11 3	2 7	5 65	5 65	0 00
2,581 0	12 94	211 70	2,578 2	-12 7	7 8	9 1	4 85	4 84	-1 61
2,612 0	14 94	209 58	2,608 3	-19 2	4 0	16 5	6 66	6 45	-6 84
2,642 0	16 44	207 83	2,637 2	-26 3	0 1	24 5	5 24	5 00	-5 83
2,673 0	17 94	208 20	2,666 8	-34 4	-4 2	33 6	4 85	4 84	1 19
2,704 0	18 75	209 45	2,696 2	-42 9	-8 9	43 3	2 90	2 61	4 03
2,735 0	20 06	209 08	2,725 5	-51 9	-13 9	53 5	4 24	4 23	-1 19
2,767 0	20 94	207 70	2,755 4	-61 8	-19 2	64 6	3 14	2 75	-4 31
2,798 0	21 94	205 58	2,784 3	-71 9	-24 3	75 8	4 08	3 23	-6 84
2,829 0	22 75	202 45	2,813 0	-82 7	-29 1	87 6	4 64	2 61	-10 10
2,860 0	23 25	200 83	2,841 5	-93 9	-33 6	99 7	2 60	1 61	-5 23
2,891 0	23 63	200 33	2,869 9	-105 5	-37 9	112 0	1 38	1 23	-1 61
2,922 0	23 06	198 58	2,898 4	-117 0	-42 0	124 3	2 90	-1 84	-5 65
2,953 0	23 69	198 83	2,926 9	-128 7	-45 9	136 6	2 06	2 03	0 81
2,984 0	23 38	198 58	2,955 3	-140 4	-49 9	149 0	1 05	-1 00	-0 81
3,015 0	23 38	199 20	2,983 7	-152 1	-53 9	161 3	0 79	0 00	2 00
3,045 0	23 44	199 58	3,011 3	-163 3	-57 8	173 2	0 54	0 20	1 27
3,077 0	23 75	201 70	3,040 6	-175 3	-62 4	186 0	2 82	0 97	6 62
3,107 0	23 94	203 95	3,068 0	-186 5	-67 1	198 1	3 10	0 63	7 50
3,139 0	25 25	204 08	3,097 1	-198 6	-72 5	211 4	4 10	4 09	0 41
3,170 0	26 06	205 20	3,125 1	-210 8	-78 1	224 8	3 05	2 61	3 61
3,202 0	27 50	203 08	3,153 6	-224 0	-84 0	239 2	5 40	4 50	-6 62
3,234 0	28 69	201 95	3,181 9	-237 9	-89 7	254 3	4 07	3 72	-3 53
3,265 0	30 38	202 45	3,208 8	-252 0	-95 5	269 5	5 51	5 45	1 61
3,296 0	31 81	201 45	3,235 4	-266 9	-101 5	285 5	4 90	4 61	-3 23
3,328 0	33 00	201 33	3,262 4	-282 9	-107 8	302 7	3 72	3 72	-0 37
3,360 0	33 75	202 20	3,289 1	-299 2	-114 3	320 3	2 78	2 34	2 72
3,391 0	33 75	201 33	3,314 9	-315 2	-120 7	337 5	1 56	0 00	-2 81
3,423 0	31 06	205 95	3,341 9	-330 9	-127 5	354 6	11 42	-8 41	14 44
3,453 0	28 63	212 95	3,367 9	-343 9	-134 8	369 4	14 15	-8 10	23 33
3,484 0	31 06	216 83	3,394 8	-356 5	-143 7	384 3	10 01	7 84	12 52
3,514 0	36 13	215 45	3,419 8	-370 0	-153 4	400 3	17 09	16 90	-4 60
3,546 0	42 19	213 57	3,444 6	-386 6	-164 9	420 0	19 30	18 94	-5 87
3,577 0	48 44	212 08	3,466 4	-405 1	-176 8	441 5	20 45	20 16	-4 81

XTO Energy, Inc.

Planning Report

Database: EDM 2003 14 Single User Db
Company: XTO Energy
Project: San Juan Basin (NAD 83)
Site: Vaqueros Canyon #1
Well: Vaqueros Canyon #1
Wellbore: Vaqueros Canyon #1 Sidetrack to PC
Design: Initial Sidetrack

Local Co-ordinate Reference: Well Vaqueros Canyon #1
TVD Reference: Rig KB @ 6961 0ft (AWS #507)
MD Reference: Rig KB @ 6961 0ft (AWS #507)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,609 0	54 44	211 45	3,486 3	-426 4	-189 9	466 1	18 81	18 75	-1 97
3,663 0	63 00	216 00	3,514 4	-464 7	-215 6	511 0	17 40	15 85	8 43
3,669 1	65 42	214 03	3,517 0	-469 2	-218 7	516 3	49 52	39 93	-32 53
Fruitland Coal									
3,694 0	75 60	206 60	3,525 3	-489 4	-230 5	539 4	49 52	40 82	-29 79
3,715 0	72 06	206 20	3,531 2	-507 5	-239 5	559 5	16 96	-16 86	-1 90
3,730 0	73 50	204 20	3,535 6	-520 5	-245 6	573 8	15 95	9 60	-13 33
3,778 0	73 50	204 20	3,549 2	-562 4	-264 5	619 7	0 00	0 00	0 00
3,808 0	73 50	204 20	3,557 8	-588 7	-276 3	648 4	0 00	0 00	0 00
3,900 0	76 00	203 46	3,582 0	-669 9	-312 1	737 1	2 82	2 71	-0 80
4,000 0	78 71	202 66	3,603 9	-759 6	-350 3	834 5	2 82	2 71	-0 80
4,100 0	81 42	201 86	3,621 1	-850 8	-387 6	933 0	2 83	2 71	-0 80
4,200 0	84 14	201 06	3,633 7	-943 1	-423 9	1,032 2	2 83	2 71	-0 80
4,300 0	86 85	200 26	3,641 5	-1,036 4	-459 1	1,131 9	2 83	2 71	-0 80
4,400 0	89 57	199 46	3,644 6	-1,130 4	-493 0	1,231 8	2 83	2 71	-0 80
4,416 0	90 00	199 33	3,644 7	-1,145 4	-498 3	1,247 8	2 83	2 71	-0 80
Pictured Cliffs									
4,500 0	90 00	199 33	3,644 7	-1,224 7	-526 2	1,331 8	0 00	0 00	0 00
4,600 0	90 00	199 33	3,644 7	-1,319 1	-559 3	1,431 7	0 00	0 00	0 00
4,700 0	90 00	199 33	3,644 7	-1,413 5	-592 3	1,531 7	0 00	0 00	0 00
4,800 0	90 00	199 33	3,644 7	-1,507 8	-625 4	1,631 7	0 00	0 00	0 00
4,900 0	90 00	199 33	3,644 7	-1,602 2	-658 5	1,731 6	0 00	0 00	0 00
5,000 0	90 00	199 33	3,644 7	-1,696 5	-691 6	1,831 6	0 00	0 00	0 00
5,100 0	90 00	199 33	3,644 7	-1,790 9	-724 7	1,931 6	0 00	0 00	0 00
5,200 0	90 00	199 33	3,644 7	-1,885 3	-757 8	2,031 5	0 00	0 00	0 00
5,300 0	90 00	199 33	3,644 7	-1,979 6	-790 9	2,131 5	0 00	0 00	0 00
5,400 0	90 00	199 33	3,644 7	-2,074 0	-824 0	2,231 5	0 00	0 00	0 00
5,500 0	90 00	199 33	3,644 7	-2,168 4	-857 1	2,331 4	0 00	0 00	0 00
5,600 0	90 00	199 33	3,644 7	-2,262 7	-890 2	2,431 4	0 00	0 00	0 00
5,700 0	90 00	199 33	3,644 7	-2,357 1	-923 3	2,531 4	0 00	0 00	0 00
5,800 0	90 00	199 33	3,644 7	-2,451 5	-956 4	2,631 3	0 00	0 00	0 00
5,900 0	90 00	199 33	3,644 7	-2,545 8	-989 5	2,731 3	0 00	0 00	0 00
6,000 0	90 00	199 33	3,644 7	-2,640 2	-1,022 6	2,831 3	0 00	0 00	0 00
6,100 0	90 00	199 33	3,644 7	-2,734 5	-1,055 7	2,931 2	0 00	0 00	0 00
6,200 0	90 00	199 33	3,644 7	-2,828 9	-1,088 8	3,031 2	0 00	0 00	0 00
6,300 0	90 00	199 33	3,644 7	-2,923 3	-1,121 9	3,131 2	0 00	0 00	0 00
6,400 0	90 00	199 33	3,644 7	-3,017 6	-1,155 0	3,231 1	0 00	0 00	0 00
6,500 0	90 00	199 33	3,644 7	-3,112 0	-1,188 1	3,331 1	0 00	0 00	0 00
6,600 0	90 00	199 33	3,644 7	-3,206 4	-1,221 2	3,431 1	0 00	0 00	0 00
6,645 0	90 00	199 33	3,644 7	-3,248 8	-1,236 1	3,476 0	0 00	0 00	0 00
4 1/2"									
6,646 4	90 00	199 33	3,644 7	-3,250 1	-1,236 5	3,477 4	0 00	0 00	0 00
Vaqueros Cyn #1 @ PC Top									

XTO Energy, Inc.

Planning Report

Database: EDM 2003 14 Single User Db
 Company: XTO Energy
 Project: San Juan Basin (NAD 83)
 Site: Vaqueros Canyon #1
 Well: Vaqueros Canyon #1
 Wellbore: Vaqueros Canyon #1 Sidetrack to PC
 Design: Initial Sidetrack

Local Co-ordinate Reference: Well Vaqueros Canyon #1
 TVD Reference: Rig KB @ 6961 0ft (AWS #507)
 MD Reference: Rig KB @ 6961 0ft (AWS #507)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Targets

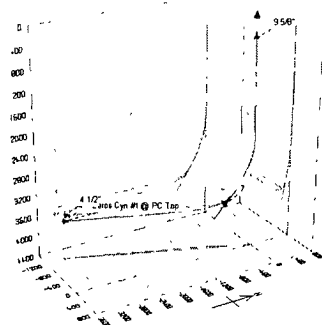
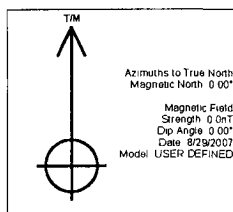
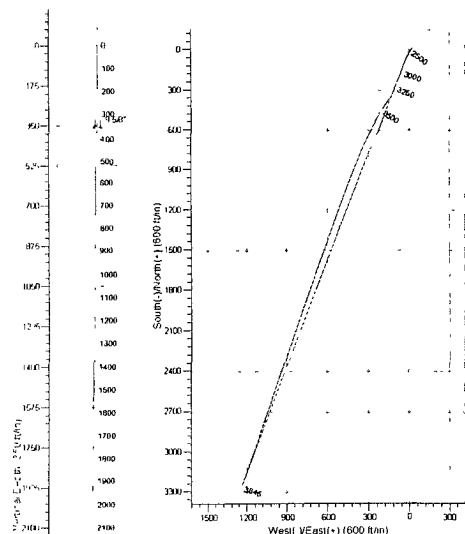
Target Name	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Vaqueros Cyn #1 @ PC	0 00	0 00	3,644 7	-3,250 1	-1,236 5	-3,145 67	-1,482 28	30° 42' 4 126 N	116° 29' 12 282 W
- plan hits target									
- Point									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(")	(")
6,645 0	3,644 7	4 1/2"	4-1/2	6-1/8

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
3,669 1	3,517 0	Fruitland Coal	Coal	0 00	
4,416 0	3,644 7	Pictured Cliffs	Sandstone	0 00	



Well Name: Vaqueros Canyon #1									
Plan Description: Hold to PC									
Name	TVD	+N/S	+E/W	Latitude	Longitude	Depth			
Vaqueros Cyn #1 @ PC Top	3644.7	3250.1	1236.5	30° 42' 4.126 N	116° 14' 1.252 W	1164			
Project: San Juan Basin (NAL: R.S.)									
Site: Vaqueros Canyon #1									
Well: Vaqueros Canyon #1									
Wellbore: Vaqueros Canyon #1 Sidetrack to FL									
Initial Sidetrack									
FORMATION TOP DETAIL C									
TVCPath	MDPath	Formation							
3517.0	3665.1	Frutland Coal							
3644.7	4416.0	Frutland Shale							
CASING DETAILS									
TVD	MD	Name	Size						
3644.7	6645.0	4 1/2"	4 1/2"						
PROJECT DETAILS: San Juan Basin (NAL: R.S.)									
Geodetic System: US State Plane 1983									
Datum: North American Datum 1983									
Ellipsoid: GRS 1980									
Zone: New Mexico Western Zone									
System Datum: Mean Sea Level									
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	DLag	TFace	VSec Target
1	3778.0	73.50	204.20	3549.2	562.4	264.5	0.00	0.00	619.7
2	3808.0	73.50	204.20	3557.8	568.7	276.3	0.00	0.00	648.4
3	4416.0	90.00	199.33	3644.7	1145.4	498.3	2.93	16.29	1247.8
4	6645.4	90.00	199.33	3644.7	-3250.1	1236.5	0.00	0.00	2477.4
Vaqueros Cyn #1 @ PC Top									

