

6102027

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SEP 29 1981

Exploration Dept./BAKERSFIELD

Bakersfield, California
September 25, 1981

TO: MR. N. J. KAPPELER ✓
FROM: C. G. BURSELL
SUBJECT: DRILLING HISTORY - COLADO 44X-10

As discussed, we are providing herewith a drilling summary for the subject well. If you require additional information please advise.

C. G. Bursell
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DEK/ec
Attachment

cc: Mr. W. A. Shaw w/attach.

COLADO 44X-10
DRILLING SUMMARY
(6:00 AM REPORT)

- 3-14-81 Spud at 11:30 AM on 3-13-81. Drill 17-1/2" hole from 165' to 702' (537' in 18-1/2 hrs - 29 ft/hr).
MUD: Wt. 67 pcf, vis. 39.
- 3-15-81 Drill 17-1/2" hole from 702' to 1006' (304' in 24 hrs - 15 ft/hr).
MUD: Wt. 66 pcf, vis. 40.
- 3-16-81 Drill 17-1/2" hole from 1006' to 1215' (209' in 11 hrs - 19 ft/hr).
Run 31 jts. of 13-3/8" - 54.5# K-55 BT&C casing to 1213'. Cement with 640 sacks "G" 1:1 perlite, 40% silica flour followed by 200 sacks of Class "G" with 40% silica flour. No cement returns.
C.I.P. 3:00 AM.
- 3-17-81 Tag top of cement at 186' with 1" pipe. Cement with 172 sacks of Class "A" cement. Good returns. Install 13-3/8" well head. Test welds to 2500 psi.
- 3-18-81 Install and test BOPE to 1000 psi. Test witnessed and approved by USGS. Drill 12-1/4" hole to 1320' (105' in 6 hrs - 18 ft/hr).
MUD: Wt. 64 pcf, vis. 30, temp in 74⁰F, temp out 82⁰F.
SURVEY: 2⁰ @ 1320'.
- 3-19-81 Run in hole with new bit. Drill 12-1/4" hole from 1320' to 1769' (449' in 16 hr - 27 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 90⁰F, temp out 97⁰F.
SURVEY: 2⁰ 15' @ 1472'.
- 3-20-81 Drill 12-1/4" hole from 1769' to 2239' (407' in 19 hr - 25 ft/hr).
MUD: Wt. 65 pcf, vis. 30, temp in 85⁰F, temp out 104⁰F.
SURVEY: 4⁰ 30' @ 1824', 6⁰ 0" @ 2044', 6⁰ 0" @ 2139', 6⁰ 0" @ 2261'.
- 3-21-81 Drill 12-1/4" hole from 2239' to 2586' (347' in 21 hrs - 17 ft/hr).
Pull out of hole for bit.
MUD: Wt. 67 pcf, vis. 35, temp in 107⁰F, temp out 112⁰F.
SURVEY: 6⁰ 15' @ 2356', 6⁰ 0" @ 2480', 6⁰ 0" @ 2542'.
- 3-22-81 Drill 12-1/4" hole from 2586' to 2732' (146' in 16 hr - 9 ft/hr).
MUD: Wt. 66 pcf, vis. 37, temp in 108⁰F, temp out 115⁰F.
SURVEY: 6⁰ 15' @ 2636'.
- 3-23-81 Drill 12-1/4" hole from 2732' to 2879'. Pull out of hole for bit change. Run new bit. Drill 12-1/4" hole from 2879' to 2885' (53' in 16 hrs - 3 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 108⁰F, temp out 110⁰F.
SURVEY: 7⁰ 30' @ 2827', 7⁰ 15' @ 2879'.

- 3-24-81 Drill 12-1/4" hole from 2885' to 3110' (225' in 21 hrs - 11 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 109°F, temp out 117°F.
SURVEY: 9° 30' @ 2907', 9° @ 2941', 10° @ 2972', 10° @ 3004',
10° @ 3036', 10° @ 3069'.
- 3-25-81 Drill 12-1/4" hole from 3110' to 3170'. Pull out of hole to install
monel and new bit. Run in and drill 12-1/4" hole from 3170' to 3197'
(87' in 7-1/2 hrs - 12 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 109°F, temp out 116°F.
SURVEY: 10° @ 3170'.
- 3-26-81 Drill 12-1/4" hole from 3197' to 3386' (189' in 16 hrs. - 12 ft/hr).
Twist off monel. Run overshot. Pull out of hole with fish.
MUD: Wt. 65 pcf, 34 vis., temp in 109°F, temp out 115°F.
SURVEY: 10° @ 3170'.
- 3-27-81 Run in hole with new bottom hole assembly. Drill 12-1/4" hole from
3386' to 3438' (52' in 5-1/2 hr - 10 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 101°F, temp out 109°F.
SURVEY: 10° 45' @ 3389'.
- 3-28-81 Drill 12-1/4" hole from 3438' to 3721' (283' in 23 hrs - 12 ft/hr).
MUD: Wt. 65 pcf, vis. 34, temp in 113°F, temp out 119°F.
SURVEY: 11° 30' @ 3502', 11° 30' @ 3721'.
- 3-29-81 Drill 12-1/4" hole from 3721' to 3863' (142' in 13 hrs - 11 ft/hr).
Change bits.
MUD: Wt. 65 pcf, vis. 34, temp in 114°F, temp out 120°F.
SURVEY: 12° @ 3863'.
- 3-30-81 Drill 12-1/4" hole from 3863' to 3963' (100' in 13-1/2 hr - 7 ft/hr).
Change bits.
MUD: Wt. 65 pcf, vis. 35, temp in 102°F, temp out 119°F.
SURVEY: 11° @ 3922', 10° 30' @ 3954'.
- 3-31-81 Drill 12-1/4" hole from 3963' to 4104' (141' in 11 hrs - 12 ft/hr).
MUD: Wt. 65, vis. 34, temp in 112°F, temp out 121°F.
SURVEY: 9° 45' N71°E @ 3996', 10° 15' @ 4091'.
- 4-01-81 Drill 12-1/4" hole from 4104' to 4384' (280' in 22 hr - 13 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 116°F, temp out 125°F.
SURVEY: 10° 45' N24E @ 4249', 12° N56E @ 4379'.
- 4-02-81 Drill 12-1/4" hole from 4384' to 4546' (162' in 22 hr - 8 ft/hr).
Pulling for bit change.
MUD: Wt. 66 pcf, vis. 35, temp in 123°F, temp out 128°F.
SURVEY: 10° 15' @ 4439', 11° 45' @ 4534'.
- 4-03-81 Run in with new bit. Drill 12-1/4" hole from 4546' to 4594' (48' in
15 hr - 3 ft/hr).
MUD: Wt. 65 pcf, vis. 34, temp in 120°F, temp out 130°F
SURVEY: 11° 45' @ 4546', 11° 30' @ 4592'.

- 4-04-81 Drill 12-1/4" hole from 4594' to 4655'. Change bits. Drill 12-1/4" hole from 4655' to 4684' (78' in 11 hr - 7 ft/hr).
MUD: Wt. 65 pcf, vis. 33, temp in 114°F, temp out 125°F
SURVEY: 11° N80E @ 4655'.
- 4-05-81 Drill 12-1/4" hole from 4684' to 4818' (134' in 21 hr - 6 ft/hr).
MUD: Wt. 65 pcf, vis. 32, temp in 121°F, temp out 132°F.
SURVEY: 10° 30' N83E @ 4750', 9° 45' N71E @ 4813'.
- 4-06-81 Drill 12-1/4" hole from 4818' to 4830'. Change bits. Drill 12-1/4" hole from 4830' to 4886' (68' in 18 hr - 4 ft/hr).
MUD: Wt. 65 pcf, vis. 32, temp in 119°F, temp out 125°F.
SURVEY: 9° 30' @ 4830', 7° 45' @ 4875'.
- 4-07-81 Drill 12-1/4" hole from 4886' to 4914'. Change bits. Drill 12-1/4" hole from 4914' to 4925' (39' in 9 hr - 4 ft/hr).
MUD: Wt. 65 pcf, vis. 31, temp in 116°F, temp out 121°F.
SURVEY: 7° 30' @ 4925'.
- 4-08-81 Drill 12-1/4" hole from 4925' to 5018' (93' in 21 hr - 4 ft/hr).
MUD: Wt. 65 pcf, vis. 32, temp in 123°F, temp out 128°F.
SURVEY: 7° 15' @ 4964'.
- 4-09-81 Drill 12-1/4" hole from 5018' to 5023'. Change bits. Drill 12-1/4" hole from 5023' to 5079' (61' in 14 hr - 4 ft/hr).
MUD: Wt. 64 pcf, vis. 33, temp in 124°F, temp out 126°F.
SURVEY: 6° 45' @ 5027'.
- 4-10-81 Drill 12-1/4" hole from 5079' to 5239' (160' in 21 hr - 8 ft/hr).
MUD: Wt. 64 pcf, vis. 33, temp in 122°F, temp out 127°F.
SURVEY: 6° 45' N54E @ 5089', 6° 45' N54E @ 5152'.
- 4-11-81 Drill 12-1/4" hole from 5239' to 5334' (95' in 12 hrs - 8 ft/hr).
Change bits.
MUD: Wt. 69 pcf, vis. 34, temp in 118°F, temp out 124°F.
SURVEY: 6° 15' N53E @ 5277'.
- 4-12-81 Drill 12-1/4" hole from 5334' to 5468' (134' in 23 hr - 6 ft/hr).
MUD: Wt. 64 pcf, vis. 35, temp in 120°F, temp out 129°F.
SURVEY: 7° 45' @ 5465'.
- 4-13-81 Drill 12-1/4" hole from 5468' to 5570' (102' in 18 hr - 6 ft/hr).
MUD: Wt. 64 pcf, vis. 35, temp in 120°F, temp out 129°F.
SURVEY: 7° 45' @ 5560'.
- 4-14-81 Drill 12-1/4" hole from 5570' to 5608'. Change bits. Drill 12-1/4" hole from 5608' to 5663' (93' in 15 hrs - 6 ft/hr).
MUD: Wt. 66 pcf, vis. 36, temp in 124°F, temp out 133°F.

- 4-15-81 Drill 12-1/4" hole from 5663' to 5839' (175' in 23 hr - 8 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 129°F, temp out 135°F.
SURVEY: 7° 45' @ 5718'.
- 4-16-81 Drill 12-1/4" hole from 5839' to 5977' (139' in 16 hr. - 9 ft/hr).
Pull out of hole for logs. Logging.
MUD: Wt. 67 pcf, vis. 35, temp in 129°F, temp out 138°F.
- 4-17-81 Run logs (temp, DIL, FDC-CNL, sonic and caliper).
- 4-18-81 Run second temp log. Run in hole with 8-1/2" bit and drill from
5977' to 6068' (91' in 9 hr - 10 ft/hr).
MUD: Wt. 66 pcf, vis. 37, temp in 131°F, temp out 139°F.
- 4-19-81 Drill 8-1/2" hole from 6068' to 6163'. Run temp survey through
drill pipe. Drill 8-1/2" hole from 6163' to 6202' (134' in 11 hr. -
11 ft/hr).
MUD: Wt. 67 pcf, vis. 36, temp in 131°F, temp out 139°F.
- 4-20-81 Drill 8-1/2" hole from 6202' to 6423' (221' in 21 hr - 11 ft/hr).
MUD: Wt. 67 pcf, vis. 37, temp in 132°F, temp out 140°F.
SURVEY: 7° 45' @ 6256', 7° 45' @ 6320'.
- 4-21-81 Drill 8-1/2" hole from 6423' to 6490' (67' in 8 hr - 8 ft/hr).
Change bits.
MUD: 67 pcf, vis. 36, temp in 131°F, temp out 141°F.
SURVEY: 12° @ 6415', 12° 15' @ 6445'.
- 4-22-81 Drill 8-1/2" hole from 6490' to 6660' (170' in 22 hrs - 8 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 138°F, temp out 145°F.
SURVEY: 12° 15' @ 6512', 12° 15' @ 6573'.
- 4-23-81 Drill 8-1/2" hole from 6660' to 6768' (108' in 18 hr. - 6 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 35, temp in 138°F, temp out 146°F.
SURVEY: 12° 15' @ 6668', 13° 15' @ 6731'.
- 4-24-81 Test BOPE. Drill 8-1/2" hole from 6768' to 6834' (66' in 12 hr -
5 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 141°F, temp out 148°F.
SURVEY: 13° 15' @ 6824'.
- 4-25-81 Drill 8-1/2" hole from 6834' to 6988' (154' in 23 hrs - 7 ft/hr).
MUD: Wt. 67 pcf, vis. 34, temp in 142°F, temp out 152°F.
SURVEY: 13° 45' @ 6918'.
- 4-26-81 Drill 8-1/2" hole from 6988' to 7056' (68' in 10 hr - 7 ft/hr).
Run temp log.
MUD: Wt. 67 pcf, vis. 35, temp in 143°F, temp out 152°F.
SURVEY: 14° @ 7013'.

- 4-27-81 Change bits. Drill 8-1/2" hole from 7056' to 7085' (29' in 4 hr - 7 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 138°F, temp out 151°F.
SURVEY: 15° 45' N5E @ 7084'.
- 4-28-81 Drill 8-1/2" hole from 7085' to 7196' (111' in 19 hr - 6 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 36, temp in 142°F, temp out 153°F.
SURVEY: 16° @ 7147'
- 4-29-81 Drill 8-1/2" hole from 7196' to 7236' (40' in 10 hr - 4 ft/hr).
MUD: Wt. 67 pcf, vis. 36, temp in 142°F, temp out 154°F.
SURVEY: 16° @ 7240'
- 4-30-81 Drill 8-1/2" hole from 7236' to 7364' (128' in 23 hr - 6 ft/hr).
MUD: Wt. 67 pcf, vis. 34, temp in 141°F, temp out 151°F.
SURVEY: 15° @ 7360'.
- 5-01-81 Drill 8-1/2" hole from 7364' to 7510' (146' in 17 hr - 8 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 34, temp in 142°F, temp out 156°F.
SURVEY: 15° 30' @ 7365', 14° 30' @ 7492'.
- 5-02-81 Drill 8-1/2" hole from 7510' to 7585' (75' in 12 hr - 6 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 139°F, temp out 156°F.
- 5-03-81 Drill 8-1/2" hole from 7585' to 7709' (124' in 14 hr - 9 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 139°F, temp out 158°F.
SURVEY: 13° 15' @ 7651'.
- 5-04-81 Drill 8-1/2" hole from 7709' to 7964' (255' in 22 hr - 11 ft/hr).
Pull out of hole for logs.
MUD: Wt. 66 pcf, vis. 34, temp in 140°F, temp out 161°F.
- 5-05-81 Run logs (DIL, dipmeter, sonic, FDC-CNL, temp).
- 5-06-81 Run in hole with drill pipe. File hole with water. Lay down drill pipe.
- 5-07-81 Nipple up wellhead. Secure well.
- 5-08-81 Release drilling rig 12:00 AM 5-8-81.

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C. G. BURSELL

DEK/ec
Attachment

cc: Mr. W. A. Shaw w/attach.

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(6:00 AM REPORT)

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SURVEY: 2° @ 1320'.
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SURVEY: 2° 15' @ 1472'.
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SURVEY: 4° 30' @ 1824', 6° 0" @ 2044', 6° 0" @ 2139', 6° 0" @ 2261'.
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MUD: Wt. 67 pcf, vis. 35, temp in 129⁰F, temp out 138⁰F.
- 4-17-81 Run logs (temp, DIL, FDC-CNL, sonic and caliper).
- 4-18-81 Run second temp log. Run in hole with 8-1/2" bit and drill from 5977' to 6068' (91' in 9 hr - 10 ft/hr).
MUD: Wt. 66 pcf, vis. 37, temp in 131⁰F, temp out 139⁰F.
- 4-19-81 Drill 8-1/2" hole from 6068' to 6163'. Run temp survey through drill pipe. Drill 8-1/2" hole from 6163' to 6202' (134' in 11 hr. - 11 ft/hr).
MUD: Wt. 67 pcf, vis. 36, temp in 131⁰F, temp out 139⁰F.
- 4-20-81 Drill 8-1/2" hole from 6202' to 6423' (221' in 21 hr - 11 ft/hr).
MUD: Wt. 67 pcf, vis. 37, temp in 132⁰F, temp out 140⁰F.
SURVEY: 7⁰ 45' @ 6256', 7⁰ 45' @ 6320'.
- 4-21-81 Drill 8-1/2" hole from 6423' to 6490' (67' in 8 hr - 8 ft/hr).
Change bits.
MUD: 67 pcf, vis. 36, temp in 131⁰F, temp out 141⁰F.
SURVEY: 12⁰ @ 6415', 12⁰ 15' @ 6445'.
- 4-22-81 Drill 8-1/2" hole from 6490' to 6660' (170' in 22 hrs - 8 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 138⁰F, temp out 145⁰F.
SURVEY: 12⁰ 15' @ 6512', 12⁰ 15' @ 6573'.
- 4-23-81 Drill 8-1/2" hole from 6660' to 6768' (108' in 18 hr. - 6 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 35, temp in 138⁰F, temp out 146⁰F.
SURVEY: 12⁰ 15' @ 6668', 13⁰ 15' @ 6731'.
- 4-24-81 Test BOPE. Drill 8-1/2" hole from 6768' to 6834' (66' in 12 hr - 5 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 141⁰F, temp out 148⁰F.
SURVEY: 13⁰ 15' @ 6824'.
- 4-25-81 Drill 8-1/2" hole from 6834' to 6988' (154' in 23 hrs - 7 ft/hr).
MUD: Wt. 67 pcf, vis. 34, temp in 142⁰F, temp out 152⁰F.
SURVEY: 13⁰ 45' @ 6918'.
- 4-26-81 Drill 8-1/2" hole from 6988' to 7056' (68' in 10 hr - 7 ft/hr).
Run temp log.
MUD: Wt. 67 pcf, vis. 35, temp in 143⁰F, temp out 152⁰F.
SURVEY: 14⁰ @ 7013'.

- 4-27-81 Change bits. Drill 8-1/2" hole from 7056' to 7085' (29' in 4 hr - 7 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 138°F, temp out 151°F.
SURVEY: 15° 45' N5E @ 7084'.
- 4-28-81 Drill 8-1/2" hole from 7085' to 7196' (111' in 19 hr - 6 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 36, temp in 142°F, temp out 153°F.
SURVEY: 16° @ 7147'
- 4-29-81 Drill 8-1/2" hole from 7196' to 7236' (40' in 10 hr - 4 ft/hr).
MUD: Wt. 67 pcf, vis. 36, temp in 142°F, temp out 154°F.
SURVEY: 16° @ 7240'
- 4-30-81 Drill 8-1/2" hole from 7236' to 7364' (128' in 23 hr - 6 ft/hr).
MUD: Wt. 67 pcf, vis. 34, temp in 141°F, temp out 151°F.
SURVEY: 15° @ 7360'.
- 5-01-81 Drill 8-1/2" hole from 7364' to 7510' (146' in 17 hr - 8 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 34, temp in 142°F, temp out 156°F.
SURVEY: 15° 30' @ 7365', 14° 30' @ 7492'.
- 5-02-81 Drill 8-1/2" hole from 7510' to 7585' (75' in 12 hr - 6 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 139°F, temp out 156°F.
- 5-03-81 Drill 8-1/2" hole from 7585' to 7709' (124' in 14 hr - 9 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 139°F, temp out 158°F.
SURVEY: 13° 15' @ 7651'.
- 5-04-81 Drill 8-1/2" hole from 7709' to 7964' (255' in 22 hr - 11 ft/hr).
Pull out of hole for logs.
MUD: Wt. 66 pcf, vis. 34, temp in 140°F, temp out 161°F.
- 5-05-81 Run logs (DIL, dipmeter, sonic, FDC-CNL, temp).
- 5-06-81 Run in hole with drill pipe. File hole with water. Lay down drill pipe.
- 5-07-81 Nipple up wellhead. Secure well.
- 5-08-81 Release drilling rig 12:00 AM 5-8-81.

COLADO 44X-10
DRILLING SUMMARY
(6:00 AM REPORT)

- 3-14-81 Spud at 11:30 AM on 3-13-81. Drill 17-1/2" hole from 165' to 702' (537' in 18-1/2 hrs - 29 ft/hr).
MUD: Wt. 67 pcf, vis. 39.
- 3-15-81 Drill 17-1/2" hole from 702' to 1006' (304' in 24 hrs - 15 ft/hr).
MUD: Wt. 66 pcf, vis. 40.
- 3-16-81 Drill 17-1/2" hole from 1006' to 1215' (209' in 11 hrs - 19 ft/hr).
Run 31 jts. of 13-3/8" - 54.5# K-55 BT&C casing to 1213'. Cement with 640 sacks "G" 1:1 perlite, 40% silica flour followed by 200 sacks of Class "G" with 40% silica flour. No cement returns.
C.I.P. 3:00 AM.
- 3-17-81 Tag top of cement at 186' with 1" pipe. Cement with 172 sacks of Class "A" cement. Good returns. Install 13-3/8" well head. Test welds to 2500 psi.
- 3-18-81 Install and test BOPE to 1000 psi. Test witnessed and approved by USGS. Drill 12-1/4" hole to 1320' (105' in 6 hrs - 18 ft/hr).
MUD: Wt. 64 pcf, vis. 30, temp in 74°F, temp out 82°F.
SURVEY: 2° @ 1320'.
- 3-19-81 Run in hole with new bit. Drill 12-1/4" hole from 1320' to 1769' (449' in 16 hr - 27 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 90°F, temp out 97°F.
SURVEY: 2° 15' @ 1472'.
- 3-20-81 Drill 12-1/4" hole from 1769' to 2239' (407' in 19 hr - 25 ft/hr).
MUD: Wt. 65 pcf, vis. 30, temp in 85°F, temp out 104°F.
SURVEY: 4° 30' @ 1824', 6° 0" @ 2044', 6° 0" @ 2139', 6° 0" @ 2261'.
- 3-21-81 Drill 12-1/4" hole from 2239' to 2586' (347' in 21 hrs - 17 ft/hr).
Pull out of hole for bit.
MUD: Wt. 67 pcf, vis. 35, temp in 107°F, temp out 112°F.
SURVEY: 6° 15' @ 2356', 6° 0" @ 2480', 6° 0" @ 2542'.
- 3-22-81 Drill 12-1/4" hole from 2586' to 2732' (146' in 16 hr - 9 ft/hr).
MUD: Wt. 66 pcf, vis. 37, temp in 108°F, temp out 115°F.
SURVEY: 6° 15' @ 2636'.
- 3-23-81 Drill 12-1/4" hole from 2732' to 2879'. Pull out of hole for bit change. Run new bit. Drill 12-1/4" hole from 2879' to 2885' (53' in 16 hrs - 3 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 108°F, temp out 110°F.
SURVEY: 7° 30' @ 2827', 7° 15' @ 2879'.

- 3-24-81 Drill 12-1/4" hole from 2885' to 3110' (225' in 21 hrs - 11 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 109⁰F, temp out 117⁰F.
SURVEY: 9⁰ 30' @ 2907', 9⁰ @ 2941', 10⁰ @ 2972', 10⁰ @ 3004',
10⁰ @ 3036', 10⁰ @ 3069'.
- 3-25-81 Drill 12-1/4" hole from 3110' to 3170'. Pull out of hole to install
monel and new bit. Run in and drill 12-1/4" hole from 3170' to 3197'
(87' in 7-1/2 hrs - 12 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 109⁰F, temp out 116⁰F.
SURVEY: 10⁰ @ 3170'.
- 3-26-81 Drill 12-1/4" hole from 3197' to 3386' (189' in 16 hrs. - 12 ft/hr).
Twist off monel. Run overshot. Pull out of hole with fish.
MUD: Wt. 65 pcf, 34 vis., temp in 109⁰F, temp out 115⁰F.
SURVEY: 10⁰ @ 3170'.
- 3-27-81 Run in hole with new bottom hole assembly. Drill 12-1/4" hole from
3386' to 3438' (52' in 5-1/2 hr - 10 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 101⁰F, temp out 109⁰F.
SURVEY: 10⁰ 45' @ 3389'.
- 3-28-81 Drill 12-1/4" hole from 3438' to 3721' (283' in 23 hrs - 12 ft/hr).
MUD: Wt. 65 pcf, vis. 34, temp in 113⁰F, temp out 119⁰F.
SURVEY: 11⁰ 30' @ 3502', 11⁰ 30' @ 3721'.
- 3-29-81 Drill 12-1/4" hole from 3721' to 3863' (142' in 13 hrs - 11 ft/hr).
Change bits.
MUD: Wt. 65 pcf, vis. 34, temp in 114⁰F, temp out 120⁰F.
SURVEY: 12⁰ @ 3863'.
- 3-30-81 Drill 12-1/4" hole from 3863' to 3963' (100' in 13-1/2 hr - 7 ft/hr).
Change bits.
MUD: Wt. 65 pcf, vis. 35, temp in 102⁰F, temp out 119⁰F.
SURVEY: 11⁰ @ 3922', 10⁰ 30' @ 3954'.
- 3-31-81 Drill 12-1/4" hole from 3963' to 4104' (141' in 11 hrs - 12 ft/hr).
MUD: Wt. 65, vis. 34, temp in 112⁰F, temp out 121⁰F.
SURVEY: 9⁰ 45' N71⁰E @ 3996', 10⁰ 15' @ 4091'.
- 4-01-81 Drill 12-1/4" hole from 4104' to 4384' (280' in 22 hr - 13 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 116⁰F, temp out 125⁰F.
SURVEY: 10⁰ 45' N24E @ 4249', 12⁰ N56E @ 4379'.
- 4-02-81 Drill 12-1/4" hole from 4384' to 4546' (162' in 22 hr - 8 ft/hr).
Pulling for bit change.
MUD: Wt. 66 pcf, vis. 35, temp in 123⁰F, temp out 128⁰F.
SURVEY: 10⁰ 15' @ 4439', 11⁰ 45' @ 4534'.
- 4-03-81 Run in with new bit. Drill 12-1/4" hole from 4546' to 4594' (48' in
15 hr - 3 ft/hr).
MUD: Wt. 65 pcf, vis. 34, temp in 120⁰F, temp out 130⁰F
SURVEY: 11⁰ 45' @ 4546', 11⁰ 30' @ 4592'.

Colado 44X-10
Drilling Summary
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- 4-04-81 Drill 12-1/4" hole from 4594' to 4655'. Change bits. Drill 12-1/4" hole from 4655' to 4684' (78' in 11 hr - 7 ft/hr).
MUD: Wt. 65 pcf, vis. 33, temp in 114°F, temp out 125°F
SURVEY: 11° N80E @ 4655'.
- 4-05-81 Drill 12-1/4" hole from 4684' to 4818' (134' in 21 hr - 6 ft/hr).
MUD: Wt. 65 pcf, vis. 32, temp in 121°F, temp out 132°F.
SURVEY: 10° 30' N83E @ 4750', 9° 45' N71E @ 4813'.
- 4-06-81 Drill 12-1/4" hole from 4818' to 4830'. Change bits. Drill 12-1/4" hole from 4830' to 4886' (68' in 18 hr - 4 ft/hr).
MUD: Wt. 65 pcf, vis. 32, temp in 119°F, temp out 125°F.
SURVEY: 9° 30' @ 4830', 7° 45' @ 4875'.
- 4-07-81 Drill 12-1/4" hole from 4886' to 4914'. Change bits. Drill 12-1/4" hole from 4914' to 4925' (39' in 9 hr - 4 ft/hr).
MUD: Wt. 65 pcf, vis. 31, temp in 116°F, temp out 121°F.
SURVEY: 7° 30' @ 4925'.
- 4-08-81 Drill 12-1/4" hole from 4925' to 5018' (93' in 21 hr - 4 ft/hr).
MUD: Wt. 65 pcf, vis. 32, temp in 123°F, temp out 128°F.
SURVEY: 7° 15' @ 4964'.
- 4-09-81 Drill 12-1/4" hole from 5018' to 5023'. Change bits. Drill 12-1/4" hole from 5023' to 5079' (61' in 14 hr - 4 ft/hr).
MUD: Wt. 64 pcf, vis. 33, temp in 124°F, temp out 126°F.
SURVEY: 6° 45' @ 5027'.
- 4-10-81 Drill 12-1/4" hole from 5079' to 5239' (160' in 21 hr - 8 ft/hr).
MUD: Wt. 64 pcf, vis. 33, temp in 122°F, temp out 127°F.
SURVEY: 6° 45' N54E @ 5089', 6° 45' N54E @ 5152'.
- 4-11-81 Drill 12-1/4" hole from 5239' to 5334' (95' in 12 hrs - 8 ft/hr).
Change bits.
MUD: Wt. 69 pcf, vis. 34, temp in 118°F, temp out 124°F.
SURVEY: 6° 15' N53E @ 5277'.
- 4-12-81 Drill 12-1/4" hole from 5334' to 5468' (134' in 23 hr - 6 ft/hr).
MUD: Wt. 64 pcf, vis. 35, temp in 120°F, temp out 129°F.
SURVEY: 7° 45' @ 5465'.
- 4-13-81 Drill 12-1/4" hole from 5468' to 5570' (102' in 18 hr - 6 ft/hr).
MUD: Wt. 64 pcf, vis. 35, temp in 120°F, temp out 129°F.
SURVEY: 7° 45' @ 5560'.
- 4-14-81 Drill 12-1/4" hole from 5570' to 5608'. Change bits. Drill 12-1/4" hole from 5608' to 5663' (93' in 15 hrs - 6 ft/hr).
MUD: Wt. 66 pcf, vis. 36, temp in 124°F, temp out 133°F.

- 4-15-81 Drill 12-1/4" hole from 5663' to 5839' (175' in 23 hr - 8 ft/hr).
MUD: Wt. 66 pcf, vis. 35, temp in 129°F, temp out 135°F.
SURVEY: 7° 45' @ 5718'.
- 4-16-81 Drill 12-1/4" hole from 5839' to 5977' (139' in 16 hr. - 9 ft/hr).
Pull out of hole for logs. Logging.
MUD: Wt. 67 pcf, vis. 35, temp in 129°F, temp out 138°F.
- 4-17-81 Run logs (temp, DIL, FDC-CNL, sonic and caliper).
- 4-18-81 Run second temp log. Run in hole with 8-1/2" bit and drill from
5977' to 6068' (91' in 9 hr - 10 ft/hr).
MUD: Wt. 66 pcf, vis. 37, temp in 131°F, temp out 139°F.
- 4-19-81 Drill 8-1/2" hole from 6068' to 6163'. Run temp survey through
drill pipe. Drill 8-1/2" hole from 6163' to 6202' (134' in 11 hr. -
11 ft/hr).
MUD: Wt. 67 pcf, vis. 36, temp in 131°F, temp out 139°F.
- 4-20-81 Drill 8-1/2" hole from 6202' to 6423' (221' in 21 hr - 11 ft/hr).
MUD: Wt. 67 pcf, vis. 37, temp in 132°F, temp out 140°F.
SURVEY: 7° 45' @ 6256', 7° 45' @ 6320'.
- 4-21-81 Drill 8-1/2" hole from 6423' to 6490' (67' in 8 hr - 8 ft/hr).
Change bits.
MUD: 67 pcf, vis. 36, temp in 131°F, temp out 141°F.
SURVEY: 12° @ 6415', 12° 15' @ 6445'.
- 4-22-81 Drill 8-1/2" hole from 6490' to 6660' (170' in 22 hrs - 8 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 138°F, temp out 145°F.
SURVEY: 12° 15' @ 6512', 12° 15' @ 6573'.
- 4-23-81 Drill 8-1/2" hole from 6660' to 6768' (108' in 18 hr. - 6 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 35, temp in 138°F, temp out 146°F.
SURVEY: 12° 15' @ 6668', 13° 15' @ 6731'.
- 4-24-81 Test BOPE. Drill 8-1/2" hole from 6768' to 6834' (66' in 12 hr -
5 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 141°F, temp out 148°F.
SURVEY: 13° 15' @ 6824'.
- 4-25-81 Drill 8-1/2" hole from 6834' to 6988' (154' in 23 hrs - 7 ft/hr).
MUD: Wt. 67 pcf, vis. 34, temp in 142°F, temp out 152°F.
SURVEY: 13° 45' @ 6918'.
- 4-26-81 Drill 8-1/2" hole from 6988' to 7056' (68' in 10 hr - 7 ft/hr).
Run temp log.
MUD: Wt. 67 pcf, vis. 35, temp in 143°F, temp out 152°F.
SURVEY: 14° @ 7013'.

- 4-27-81 Change bits. Drill 8-1/2" hole from 7056' to 7085' (29' in 4 hr - 7 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 138°F, temp out 151°F.
SURVEY: 15° 45' N5E @ 7084'.
- 4-28-81 Drill 8-1/2" hole from 7085' to 7196' (111' in 19 hr - 6 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 36, temp in 142°F, temp out 153°F.
SURVEY: 16° @ 7147'
- 4-29-81 Drill 8-1/2" hole from 7196' to 7236' (40' in 10 hr - 4 ft/hr):
MUD: Wt. 67 pcf, vis. 36, temp in 142°F, temp out 154°F.
SURVEY: 16° @ 7240'
- 4-30-81 Drill 8-1/2" hole from 7236' to 7364' (128' in 23 hr - 6 ft/hr).
MUD: Wt. 67 pcf, vis. 34, temp in 141°F, temp out 151°F.
SURVEY: 15° @ 7360'.
- 5-01-81 Drill 8-1/2" hole from 7364' to 7510' (146' in 17 hr - 8 ft/hr).
Change bits.
MUD: Wt. 67 pcf, vis. 34, temp in 142°F, temp out 156°F.
SURVEY: 15° 30' @ 7365', 14° 30' @ 7492'.
- 5-02-81 Drill 8-1/2" hole from 7510' to 7585' (75' in 12 hr - 6 ft/hr).
MUD: Wt. 67 pcf, vis. 35, temp in 139°F, temp out 156°F.
- 5-03-81 Drill 8-1/2" hole from 7585' to 7709' (124' in 14 hr - 9 ft/hr).
MUD: Wt. 65 pcf, vis. 35, temp in 139°F, temp out 158°F.
SURVEY: 13° 15' @ 7651'.
- 5-04-81 Drill 8-1/2" hole from 7709' to 7964' (255' in 22 hr - 11 ft/hr).
Pull out of hole for logs.
MUD: Wt. 66 pcf, vis. 34, temp in 140°F, temp out 161°F.
- 5-05-81 Run logs (DIL, dipmeter, sonic, FDC-CNL, temp).
- 5-06-81 Run in hole with drill pipe. File hole with water. Lay down drill pipe.
- 5-07-81 Nipple up wellhead. Secure well.
- 5-08-81 Release drilling rig 12:00 AM 5-8-81.