

(1) (7) That Tract 13 of the proposed unit comprises the following described lands:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMNM

Section 14: SW $\frac{1}{4}$

(8) That Tract 15 of the proposed unit comprises the following described lands:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMNM

Section 13: N $\frac{1}{2}$ NW $\frac{1}{4}$ and NW $\frac{1}{4}$ NE $\frac{1}{4}$

(9) That the owners of interest in Tract 13 who filed requests for rehearing are J. R. Cone and Texaco Inc.

(10) That the owner of interest in Tract 15 who filed a request for rehearing is Summit Energy Inc.

(11) That by Order No. R-5593-A entered January 20, 1978, the Commission granted ~~the~~ Cone's and Summit's requests for rehearing of Case No. 6069, but provided "That the evidence at said rehearing shall be limited to evidence relating to the unitization of and waterflood operations on, Tract No. 13 and Tract No. 15 of the East Blueberry Unit Area...."

(12) That by Order No. R-5593-B entered January 24, 1978, the Commission granted Texaco's request for rehearing of Case No. 6069, but provided "That the evidence at said rehearing shall be limited to evidence relating to the unitization of Tract No. 13 of the East Blueberry Unit Area...."

- (2)
- (13) That, ^{when} this cause came on for rehearing
on February 21, 1978, the record in
the original hearing of the case on
October 20, 1977, was incorporated in
the record of this rehearing, and
the evidence in the rehearing was
limited to evidence pertaining to Tract
No. 15 and Tract No. 15 of the Blinberry
Unit Area.
- (14) That the Commission, in considering
the record of the rehearing, should
consider only what effect ~~that~~ the
inclusion or exclusion of said
tracts would have on unit operations
as a whole and on the tracts
individually, having previously deter-
mined that "... the unitized management,
operation, and ^{further} development of the
subject portion of the Blinberry Oil and Gas
Pool, as proposed, is reasonably necessary
in order to effectively carry on secondary
recovery operations and to substantially
increase the ultimate recovery of oil from
the pool" and that "... the unitized
method of operation as applied to
the East Blinberry Unit Area, is feasible,
will prevent waste, and will result with
reasonable probability in the increased
recovery of substantially more oil from
the pool than would otherwise be recovered.
(Findings Nos. (6) and (7), Order No. R-5593.)

(3)

- (15) That in considering the record of the rehearing, the Commission should determine whether the inclusion of Tract 13 and/or Tract 15 ~~is in the best interest of owners~~ in the ~~the~~ East Blinberry Unit Area is in the best interests of conservation to the end that greater ultimate recovery may be had therefrom, waste prevented, and correlative rights protected of all ~~the~~ owners of mineral interests in the unitized area.
- (16) That should the Commission find that the inclusion ^{in the unit} of either or both of said tracts ^{is in the best interests} of conservation to the above-described ends, it should reaffirm Order D.O. R-5593, and should the Commission find that the inclusion ^{in the unit} of either or both of said tracts ^{is not necessary to the best interests} of conservation to the end that greater ultimate recovery may be had therefrom, waste prevented, and correlative rights protected of all owners of mineral interests in the unitized area, it should ~~reaffirm~~ ^{amend} Order D.O. R-5593 ~~or amend it to exclude~~ either of or both of said tracts.
- (17) That the evidence establishes that upon unitization of the East Blinberry Unit Area, applicant will institute a secondary recovery project in the area by the injection of water into the Blinberry Formation through 38

(4)
injection wells, see in Township 21 S. 4th,
Range 37 East, N.M.M., and described and
located as follows:

Unit Well Number	Unit Letter	Section	Located on Tract No.
2	C	12	1
4	A	11	1
6	C	11	1
8	E	11	1
10	G	11	1
12	E	12	1
14	G	12	1
16	K	12	6
18	I	11	1
20	M	11	3
22	M	11	3
24	O	11	1
26	M	12	7
28	O	12	9
30	C	13	15
32	A	14	1
34	C	14	11
36	E	14	10
38	G	14	12
40	E	13	1
42	G	13	1
44	K	13	1
46	H	14	1
48	K	14	13
50	M	14	13
52	O	14	14
54	M	13	1
56	C	24	21
58	A	23	18

B

60	C	23	16
62	E	23	16
64	G	23	17
66	E	24	21
69	I	23	20
71	K	23	19
73	M	23	19
75	O	23	20
77	M	24	22

- (18) That the evidence establishes that the selection of Tract No. 13 from the unit area would eliminate
- (18) That the selection of the above-described 38 wells to be water injection wells in the East Blinckley Unit Area waterflood Project was made in order to provide a uniform water injection pattern and to achieve an efficient sweep of oil ~~from~~ through the unitized formation throughout the unit area.
- (19) That the evidence establishes that the selection of Tract No. 13 from the unit area would ^{very likely} mean the loss to the ^{average} injection pattern of two wells proposed injection wells ^{on tract No. 13}, namely, the ~~Unit~~ Wells Nos. 48 and 50, located in Units ~~Units~~ K and M, respectively of Section 14.

(20) That if said Tract No. 13 is not included in the Unit, and Wells Nos. 48 and 50 were not placed on water injection, the injection of water into those additional proposed injection wells ~~should~~ will to would have to directly offsetting Tract No. 13 would have to be suspended to prevent avoid ~~pushing~~ prevent water injected into front pushing oil off the unitized lands and onto Tract No. 13.

(31) That the three additional wells into which no injection could occur are ~~Unit's~~ Wells Nos. 36 and 52, located in Units letters E and O, respectively, of Section 14, and Well No. 60, located in Unit C of Section 23.

(32) That the deletion of Tract No. 13 from the East Blueberry Unit Area and the subsequent loss of five wells to the waterflood injection pattern, being the five wells described in Findings Nos. (19) and (21) above, ~~would~~ would result in a loss to the efficiency of the proposed 38-well injection pattern, and would have an effect on the secondary recovery of oil from Tracts Nos. 1(B-14), 10, 11, 12, 13, 14, 16, 17, and 18 of the unit area.

(23) That if the East Blinberry Unit Area⁽¹⁾
 the East Drinkard Unit Area are utilized
 as proposed, and both unit areas are
 are subject to ^{the planned} secondary operations,
^{combined} secondary recovery from the Blinberry Pool and the Drinkard,
 above-named tracts is expected to be
 as follows:

Tract No.	Total Acres in Tract	Tract Acres Subject to Flood	Thousands Barrels Calculated Secondary Recovery
1 (B-14)	160	160	312.602
10	80	80	537.302
11	80	80	316.003
12	80	80	506.303
13	160	160	820.502
14	80	80	484.10
16	160	160	394.702
17	120	120	316.603
18	40	40	56.90

(24) That recoveries in the vicinity of Tract 13
 have been and

(25) That the secondary recovery production from
 all wells in the East Blinberry Unit Area and the
 East Blinberry Drinkard Unit Area, based on
 primary oil and gas equivalent pro-
 duction plus the expected secondary
 oil production from the Blinberry
 and Drinkard formations, is calculated
 to be 64.544 percent from the Blinberry
 formation and 35.456 percent from the
 Drinkard formation.

(25) That applying the above-named ~~above-named~~
 Blinberry allocation factor of 64.544 percent
 to the total ^{calculated} secondary recovery figures
 shown in Column the ~~fourth~~ Column 3

in Blining No. (23) above indicates that
the tracts named below will be affected
secondary recovery ^{in the East Blining Unit} ~~recovered~~ ^{affected} by
to them as follows:

Tract No.	Thousand Barrels Calculated Secondary Recovery	Blineby Allocation Factor	Thousand Barrels Blineby Secondary Recovery
1(B-14)	312.6	64.544	201.8
10	537.3	"	347.0
11	316.0	"	204.0
12	506.3	"	326.8
13	820.5	"	529.6
14	484.1	"	312.5
15	394.7	"	254.8
17	316.6	"	204.3
18	56.9	"	36.7

(26) That if Tract No. 13 is not included in the East Blineby Unit, and the five wells described in Findings Nos. (19) and (21) above are not placed on water injection, portions of Tracts Nos. 1, 10, 11, 12, 13, 14, 16, and 17 will not be flooded swept by the Blineby flooding operation.

(27) That the Commission calculates that under the conditions described in finding No. (26) above, the aforesaid tracts will be affected as described follows:

(1) Tract No	(2) Total Acres in Tract	(3) Acres Swept by Flood	(4) Acres Not Swept by Flood	(5) Percent Loss (Col 4 ÷ Col 2 × 100)
1(B-14)	160	138.17	21.83	13.64
10	80	24.62	55.38	69.23
11	80	50.39	29.61	37.01
12	80	74.19	5.81	7.26
13	160	0.00	160.00	100.00
14	80	16.02	63.98	80.00
16	160	78.72	81.28	50.80
17	120	89.58	30.42	25.35
18	110	21.07	88.93	12.70

(28) That, applying the above-defined percent contract ~~and~~ ^{loss} which its ~~is~~ the measure of secondary recovery to be obtained from full unit operations under each tract as arrived at in finding No (25) above, etc it must be concluded that the deletion of Tract No. 13 from the ^{East Blincky} Unit Area will result in the loss of secondary recovery under from each of the affected tracts as follows:

Tract No	Thousands Bbls Secondary Recovery Under Full Unit ^{Contract}	Percent Loss	Thousands Bbls Secondary Recovery Loss
1 (B-14)	201.8	13.64	27.5
10	347.0	69.23	240.2
11	204.0	37.01	75.5
12	326.8	7.26	23.7
13	529.6	100.00	529.6
14	312.5	80.00	250.0
16	254.8	50.80	129.4
17	204.3	25.35	51.8
18	36.7	12.78	4.7

(29) That the total loss of Blincky recovery oil from all of the above tracts, resulting from the deletion of Tract No. 13 from the ^{East Blincky} Unit Area and the resultant loss of five wells from the Blincky proposed ³⁸⁻⁵⁰⁰ waterflood injection program is 1,332.400 barrels.

(30) That the evidence establishes that if ~~the~~ ^{the} Tract No. 15 from the unit area were deleted from the unit area, a lease-lime agreement might be worked out whereby the operator of Tract No. 15 would put one well on water injection into the Blincky formation, namely

the Summit Bevin Well No. 2, located in
Unit C of Section 13, Township 21 South,
Range 37 (Unit Well No. 30 in Finding
No. (17) above).

- (31) That although the placing of the
said Bevin Well No. 2 in water
injection into the Blawley formation
would be in conformance to the
proposed ^{Blawley} water injection pattern
for the East Blawley Unit Area, if
the unit operator completed the proposed
injection well pattern, there would be
five injection wells on unitized lands
affecting the Bevin Lease, as opposed
to one injection well on the Bevin
Lease affecting the unitized lands.
- (32) That the aforesaid disparity in the number
of injection wells on one property as
opposed to the number of injection wells
on the other property would cause drainage
of oil from one property to the (the
unitized lands) to the other property
(the Bevin Lease) which would not
be offset by counter-drainage, and
would impact the correlative rights of
owners in the unitized lands.
- (33) That to prevent the aforesaid drainage
and to protect the correlative rights of
owners in the unitized lands, the unit operator
would have to delete certain wells from

The proposed Blueberry injection well pattern, namely Units Wells Nos. 26 and 28, in Units M and O, respectively, of Section 12, land Unit Well No. 42, in Unit G of Section 13, all in Township 21 South, Range 37 East, W.M.P.M.

(34) That the deletion of Tract No. 15 from the East Blueberry Unit Area and the subsequent loss of three wells to the fracturing and injection pattern, leaving the three wells described in Drilling No. 33 alone, will result in serious losses to the efficiency of the 38-well injection pattern and will cause the loss of secondary recovery oil from Tracts Nos. 1, 4, 5, 6, 7, 8, 9, and 15 of the blue unit area.

(35) That if the East Blueberry Unit Area and the East Drunkard Unit Area are unitized as proposed, and the entire unit area is subject to the planned secondary recovery operations, secondary recovery from the above-named tracts is calculated to be as follows:

(1) Tract No	(2) Total Acres in Tract	(3) Tract Acres Swept by Flood	(4) Thousand Barrels Calculated Secondary Recovery
1(B-11)	440	440.00	1872.1
1(B-13)	320	264.96	291.6
1(B-14)	160	160.00	312.6
4 and 5	80	72.74	166.2
6 and 7	80	80.00	142.1
8	40	40.00	60.1
9	40	20.90	33.3
15	120	98.00	296.0

(36) That if Tract No. 15 is deleted from the East Blueberry Unit Area, and the three wells located in Finding No. (34) above are not placed on injection, the Commission calculates that the aforesaid tracts will be affected as follows:

Tract No	(2) Acres Flooded with Full Unitization (Col. 3, Finding 35)	(3) Acres Flooded If Tract 15 De- leted From Unit	(4) Acres Not Flood- ed Because of Deletion of Tracts	(5) Percent Loss (Col. 3 ÷ Col 2 × 100)
1(B-11)	440.00	436.98	3.02	0.69
1(B-13)	264.96	213.87	51.09	19.28
1(B-14)	160.00	159.30	.70	0.44
Land 5	72.74	35.58	44.42	61.07
Land 7	80.00	30.89	49.11	61.39
8.	40.00	13.93	26.07	65.18
9	20.90	0.00	20.90	100.00
15	98.00	46.91	51.09	52.13

(37) That although the allocation of secondary production from wells in the East Blueberry Unit Area and the East Drinkard Unit Area leased on primary oil and gas equivalent production plus the expected secondary oil production from the Blueberry and Drinkard formations, is calculated to be 64.544 acres from the Blueberry formation and 35.456 acres from the Drinkard formation, it does not appear to the Commission that the deletion of Tract No. 15 from the East Drinkard Unit Area would have any effect on the flooding operations in the Drinkard formation and the Commission must therefore conclude that all of the anticipated secondary, recovery oil attributed to the various tracts listed in Finding No. (35) above would be recovered from the Blueberry formation.

(38) That by applying the percent loss of flooded acres in each tract (as derived in Finding No. (36) above) to the barrels of secondary recovery to be expected to be obtained from full unit operations (Column 4, Finding No. (35) above) it must be concluded that the deletion of Tract No. 15 from the East Blueberry Unit Area will result in the loss of secondary recovery from the Blueberry formation from each of the affected tracts as follows:

Tract No	Thousands Bbls Secondary Recovery Under Full Unit Operations	% of Percent Loss	Thousands Bbls Secondary Recovery Lost
1(B-11)	1872.1	0.69	12.9
1(B-13)	291.6	19.28	56.2
1(B-14)	312.6	0.44	1.4
4 and 5	166.2	61.07	101.5
6 and 7	142.1	61.39	87.2
8	60.1	65.18	39.2
9	33.3	100.00	33.3
15	296.0	52.13	154.3

(39) That the total loss of Blueberry secondary recovery oil from all of the above tracts, resulting from the deletion of Tract No. 15 from the East Blueberry Unit Area and the resultant loss of three wells from the proposed 38-well Blueberry waterflood injection pattern, is 486,000 barrels.

IT IS THEREFORE ORDERED:

(1) That the East Blinebry Unit Agreement covering 3080 acres, more or less, of Federal and fee lands in the Blinebry Oil and Gas Pool, Lea County, New Mexico, is hereby approved for statutory unitization pursuant to the Statutory Unitization Act.

(2) That the lands covered by said East Blinebry Unit Agreement shall be designated the East Blinebry Unit Area and shall comprise:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 11: All
Section 12: W/2 and W/2 E/2
Section 13: W/2, W/2 NE/4, and NW/4 SE/4
Section 14: All
Section 23: All
Section 24: NW/4 and W/2 SW/4

(3) That the vertical limits of the East Blinebry Unit Area shall be the Blinebry Formation as found between the subsurface depths of 5,550 feet and 6,007 feet as shown on the Welex Gammaray-Neutron log dated August 17, 1963, for the Sinclair Oil Company Roy Barton Well No. 3 located 1980 feet from the north line and 660 feet from the east line of Section 23, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

(4) That the applicant, Atlantic Richfield Company, is hereby authorized to institute a waterflood project in the East Blinebry Unit Area, Blinebry Oil and Gas Pool, Lea County, New Mexico, pursuant to the provisions set forth in Commission Order No. R-5594. R-5594-B

(5) That the East Blinebry Unit Agreement and the East Blinebry Unit Operating Agreement, as filed with the Commission by the applicant in this case, are hereby incorporated by reference into this order.

(6) That the applicant herein, Atlantic Richfield Company, shall, within 45 days after entry of this order, file with the Commission ~~and~~ amended pages 7 and 8 of Exhibit "E" to the Unit Operating Agreement. Said pages 7 and 8 of Exhibit "E", as amended, shall reflect the ~~total~~ ^{combined} Phase I and Phase II participant ~~working interest~~ participation and voting interests resulting from the elimination of Tract No 15 from the East Drinkard Unit as provided by Order No R-5594-C entered 1978.

as amended above

(7) ~~467~~ That the East Blinebry Unit Agreement and East Blinebry Unit Operating Agreement provide for unitization and unit operation of the subject portion of the Blinebry Oil and Gas Pool upon terms and conditions that are fair, reasonable and equitable and include:

an allocation to the separately owned tracts in the unit area of all the oil and gas that is produced from the unit area and is saved, being the production that is not used in the conduct of operations on the unit area or not unavoidably lost;

a provision for the credits and charges to be made in the adjustment among the owners in the unit area for their respective investments in wells, tanks, pumps, machinery, materials and equipment contributed to the unit operations;

a provision governing how the costs of unit operations including capital investments shall be determined and charged to the separately owned tracts and how said costs shall be paid including a provision providing when, how, and by whom the unit production allocated to an owner who does not pay the share of the costs of unit operations charged to such owner, or the interest of such owner, may be sold and the proceeds applied to the payment of such costs;

a provision for carrying any working interest owner on a limited, carried or net-profits basis, payable out of production, upon such terms and conditions hereby determined by the commission to be just and reasonable, and allowing an appropriate charge for interest for such service payable out of such owner's share of production, provided that any nonconsenting working interest owner being so carried shall be deemed to have relinquished to the unit operator all of its operating rights and working

interest in and to the unit until his share of the costs, service charge and interest are repaid to the unit operator;

a provision designating the unit operator and providing for the supervision and conduct of the unit operations, including the selection, removal or substitution of an operator from among the working interest owners to conduct the unit operations;

a provision for a voting procedure for the decision of matters to be decided by the working interest owners in respect to which each working interest owner shall have a voting interest equal to its unit participation; and

the time when the unit operation shall commence and the manner in which, and the circumstances under which, the operations shall terminate and for the settlement of accounts upon such termination;

and are therefore hereby adopted.

(8) ~~471~~ That this order shall not become effective unless and until the appropriate ratification provisions of Section 65-14-8 NMSA, 1953 Compilation, are complied with.

(9) ~~487~~ That if the persons owning the required percentage of interest in the unit area as set out in Section 65-14-8 NMSA, 1953 Compilation, do not approve the plan for unit operations within a period of six months from the date of entry of this order, this order shall cease to be of further force and effect and shall be revoked by the Commission unless the Commission shall extend the time for ratification for good cause shown.

(10) ~~491~~ That when the persons owning the required percentage of interest in the unit area have approved the plan for unit operations, the interests of all persons in the unit are unitized whether or not such persons have approved the plan of unitization in writing.

(12) That the unitized management, operation and further development of the subject portion of the Blinebry Oil and Gas Pool, as proposed, will permit the applicant to carry on secondary recovery operations and to substantially increase the ultimate recovery of oil from the pool.

(13) That evidence presented established that the elimination of Tracts Nos. 13 and 15 from the proposed Unit area would

reduce the size of the Unit area and would substantially alter the Unit boundary, and would thereby require requiring to its proposed result in the Unit operator altering the injection well pattern oil from the unit to prevent the migration of Unit production across the resultant Unit boundary.

(14) That the evidence presented established that this alteration of the injection pattern would reduce the ultimate recovery from the ~~resultant~~ Unit by approximately 739,900

of oil barrels and 285,300 barrels in the vicinity of Tract No. 13 and approximately 285,300 barrels of oil in the vicinity of Tract No. 15. Tract No. 15, respectively.

(15) That the unitized management, operation and further development of the subject portion of the Blinebry Oil and Gas Pool, as proposed, is reasonably necessary in order to effectively carry on secondary recovery operations and to substantially increase the ultimate recovery of oil from the pool.

(16) That the unitized method of operation proposed by the applicant is expected to result in the production of secondary oil in the amounts of approximately 6,287,324 barrels of oil from ~~said~~ the Unit as a whole, and 386,301 barrels of oil from Tract 13 and 292,561 barrels from Tract 15 respectively.

(17) That the unitized method of operation proposed by the applicant, as applied to the East Blinebry Unit Area and to Tracts Nos. 13 and 15, is feasible, ~~will prevent waste, and and~~ will result with reasonable probability in the increased recovery of substantially more oil from the pool and tracts than would otherwise be recovered, *thereby preventing waste.*

*Concurred
Ward*

(40) That using a constant oil price of \$1384 per barrel, the ^{Blinney} secondary recovery oil which would not be obtained as the result of the deletion of Tract No. 13 from the ^{East Blinney} ^{Unit} Area (1,332,400 barrels, Finding No. (29) above) has a present ~~value~~ ^{value} represented as gross ~~loss~~ ^{value} of \$18,440,416.00.

(41) That using a constant oil price of \$1384 per barrel, the ^{Blinney} secondary recovery oil which would not be obtained as the result of the deletion of Tract No. 15 from the ^{East Blinney} ^{Unit} Area (486,000 barrels, Finding No. (31) above) has a present ~~value~~ ^{value} represented as gross ~~loss~~ ^{value} of \$6,726,240.00.

(42) That to omit either Tract 13 or Tract 15 from the East Blinney Unit Area and to thus ^{cause the proposed unit to sustain} ~~cause waste and waste~~ a secondary recovery loss of the magnitude described in Findings Nos. (40) and (41) would be to ^{cause waste and waste} contravene the intent and purpose of the Statutory Unitization Act, and should not be permitted, inasmuch as the plan of mitigation utilized management, operation and further development of the subject portion of the Blinney pool is reasonably necessary to effectively carry out secondary recovery operations to substantially increase the ultimate recovery, ~~that~~ the proposed method of operation is feasible, will prevent waste and will result with reasonable probability in the increased recovery of substantially more oil and gas from the unitized portion of the pool.

(1) TRACT NO.	(2) TOTAL ACRES IN TRACT	(3) THOUSAND BARRELS CALCULATED SECOND RECOVERY
1(B-14)	160	312.6
10	80	537.3
11	80	316.0
12	80	506.3
13	160	820.5
14	80	484.1
16	160	394.7
17	120	316.6
18	40	56.9

(24) That the secondary recovery production from all wells in both the East Blinebry Unit Area and the East Drinkard Unit Area, based on primary oil and gas equivalent production plus the expected secondary oil production from the Blinebry and Drinkard formations, is calculated to be 64.544 percent from the Blinebry formation and 35.456 percent from the Drinkard formation.

(25) That applying the above Blinebry allocation factor of 64.544 percent to the total calculated secondary recovery figures shown in the Column 3 in Finding No. (23) above indicates that the named tracts would have secondary recovery reserves in the East Blinebry Unit Area attributable to them as follows:

TRACT NO.	THOUSAND BARRELS CALCULATED SECONDARY RECOVERY	BLINEBRY ALLOCATION FACTOR	THOUSAND BARRELS BLINEBRY SECONDARY RECOVERY
1(B-14)	312.6	64.544	201.8
10	537.3	"	347.0
11	316.0	"	204.0
12	506.3	"	326.8
13	820.5	"	529.6
14	484.1	"	312.5
16	394.7	"	254.8
17	316.6	"	204.3
18	56.9	"	36.7

(26) That if Tract No. 13 is not included in the East Blinebry Unit, and the five wells described in Findings Nos. (19) and (21) above are not placed on water injection, portions of Tracts Nos. 1, 10, 11, 12, 13, 14, 16, and 17 will not be swept by the Blinebry flooding operation.

(27) That the Commission calculates that under the conditions described in Finding No. (26) above, the aforesaid tracts will be affected as follows:

(1) TRACT NO.	(2) TOTAL ACRES IN TRACT	(3) ACRES SWEPT BY FLOOD	(4) ACRES NOT SWEPT BY FLOOD	(5) PERCENT LOSS (Col. 4 ÷ Col 2 x 100)
1(B-14)	160	138.17	21.83	13.64
10	80	24.62	55.38	69.23
11	80	50.39	29.61	37.01
12	80	74.19	5.81	7.26
13	160	0.00	160.00	100.00
14	80	16.02	63.98	80.00
16	160	78.72	81.28	50.80
17	120	89.58	30.42	25.35
18	40	34.89	5.11	12.78

(28) That by applying the above-derived percent loss to the barrels of Blinebry secondary recovery expected to be obtained from full unit operations under each tract as arrived at in Finding No. (25) above, it must be concluded that the deletion of Tract No. 13 from the East Blinebry Unit Area will result in the loss of secondary recovery from each of the affected tracts as follows:

TRACT NO.	THOUSAND BBLS. SECONDARY RECOVERY UNDER FULL UNITI- ZATION	PERCENT LOSS	THOUSANDS BBS. SECONDARY RECOVERY LOSS
1(B-14)	201.8	13.64	27.5
10	347.0	69.23	240.2
11	204.0	37.01	75.5
12	326.8	7.26	23.7
13	529.6	100.00	529.6
14	312.5	80.00	250.0
16	254.8	50.80	129.4
17	204.3	25.35	51.8
18	36.7	12.78	4.7

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(29) That the total loss of Blinebry secondary recovery oil from all of the above tracts, resulting from the deletion of Tract No. 13 from the East Blinebry Unit Area and the resultant loss of five wells from the proposed 38-well Blinebry waterflood injection program, is 1,332,400 barrels, *of which 802,800 barrels of lost production would be sustained by working interest owners*

(30) That the evidence establishes that if Tract No. 15 were deleted from the unit area, a lease line agreement might be worked out whereby the operator of Tract No. 15 would put one well on water injection into the Blinebry formation, namely the Summit Bunin Well No. 2 located in Unit C of Section 13, Township 21 South, Range 37 (Unit Well No. 30 in Finding No. (17) above).

(31) That although the placing of said Bunin Well No. 2 on water injection into the Blinebry formation would be in conformance to the proposed Blinebry water injection pattern for the East Blinebry Unit Area, if the unit operator completed the proposed injection well pattern, there would be five injection wells on unitized lands offsetting the Bunin lease, as opposed to one injection well on the Bunin lease offsetting the unitized lands.

(32) That the aforesaid disparity in the number of injection wells on one property as opposed to the number of injection wells on the other property would cause drainage of oil from one property (the unitized lands) to the other property (the Bunin Lease) which would not be offset by counter-drainage, and would impair the correlative rights of owners in the unitized lands.

(33) That to prevent the aforesaid drainage and to protect the correlative rights of owners in the unitized lands, the unit operator would have to delete certain wells from the proposed

Blinebry injection well pattern, namely Unit Wells Nos. 26 and 28, in Units M and O, respectively, of Section 12, and Unit Well No. 42 in Unit G of Section 13, all in Township 21 South, Range 37 East, NMPM.

(34) That the deletion of Tract No. 15 from the East Blinebry Unit Area and the subsequent loss of three wells to the waterflood injection pattern, being the three wells described in Finding No. (33) above, will result in serious loss to the efficiency of the 38-well injection pattern and will cause the loss of secondary recovery oil from Tracts Nos. 1, 4, 5, 6, 7, 8, 9, and 15 of the unit area.

(35) That if the East Blinebry Unit Area and the East Drinkard Unit Area are unitized as proposed, and the entire unit area is subject to the planned secondary recovery operations, secondary recovery from the above-named tracts is ~~estimated~~ calculated to be as follows:

(1) TRACT NO.	(2) TOTAL ACRES IN TRACT	(3) TRACT ACRES SWEPT BY FLOOD	(4) THOUSAND BARRELS CALCULATED SECONDARY RECOVERY
1(B-11)	440	440.00	1872.1
1(B-13)	320	264.96	291.6
1(B-14)	160	160.00	312.6
4 and 5	80	72.74	166.2
6 and 7	80	80.00	142.1
8	40	40.00	60.1
9	40	20.90	33.3
15	120	98.00	296.0

(36) That if Tract No. 15 is deleted from the East Blinebry Unit Area, and the three wells described in Finding No. (34) above are not placed on injection, the Commission calculates that the aforesaid tracts will be affected as follows:

(18) That the estimated additional costs of such operations are reasonably expected to be approximately \$8,068,000.00 for said Unit as a whole and from \$675,195.00 to \$839,137.00 for Tract 13 and \$366,800.00 for Tract 15.

(19) That an economic analysis for the Unit projects expected undiscounted present worth to working interest owners within the unit of approximately \$9.00 per barrel of oil recovered.

(20) That projecting income to the Unit and to Tracts Nos. 13 and 15 based upon Findings (16) and (19) above and comparing the resultant figures with the expected additional costs set out in Finding No. (18) above shows that the estimated additional costs of the proposed operations will not exceed the estimated value of the additional oil so recovered plus a reasonable profit.

(21) That the royalty interest owners will share in the income from the additional oil to be recovered from the Unit and Tracts Nos. 13 and 15.

(22) That such unitization and adoption of applicant's proposed unitized method of operation will benefit the working interest owners and royalty owners of the oil and gas rights within the East Blinebry Unit Area.

(23) That the applicant has made a good faith effort to secure voluntary unitization within the East Blinebry Unit Area.

(24) That the participation formula contained in the unitization agreement will allocate the produced and saved unitized hydrocarbons to the separately owned tracts in the unit area on a fair, reasonable and equitable basis, and will protect the correlative rights of all owners of interest within the unit area provided that Pages ^{and 8} 71 of Exhibit E of the Unit Operating Agreement ^{are} ~~is~~ amended to reflect the elimination of Tract 15 from the companion East Drinkard Unit as provided in Commission Order No. R- 5594-C entered _____, 1978.

(25) That with the exception of the change provided for in Finding (24) above the working interest owners and royalty interests representing more than 75 percent of the East Blinebry Unit Area have voluntarily agreed to the provisions of the Unit Agreement.

(26) That the East Blinebry Unit Agreement and the East Blinebry Unit Operating Agreement, as filed with the Commission by the applicant in this case along with Page 7 of Exhibit E to be amended in accordance with Finding (24) above should be incorporated by reference into this order.

(27) That said owners of interest under Tract 13 objected to the requirement of said Unit ~~Agreement~~ and ~~Unit~~ ^{Operating} ~~Agreement~~ that such owners provide said Unit with a wellbore for production from or injection into the unitized formation ^{w, ~~in Tract 13~~} on each 40-acre tract ~~or~~ be subject to bearing the costs and expenses of completing such a wellbore up to the amount of \$200,000.

(28) That said owners objected to said requirement as being unfair, unreasonable, and inequitable.

(29) That the true cost of a new wellbore drilled to the unitized formation was estimated to be approximately \$306,000.00.

(30) That the owner of every 40-acre tract in said unit which tract is participating in production based on the primary production portion of the participation formula is being required to furnish a wellbore as set out in Finding No. (27) above.

(31) That the owners of interest under Tract 13 are not being treated differently than other owners in the Unit in the matter of providing wellbores to the unit and there is no evidence that such treatment is other than fair, reasonable, and equitable.

(32) That said owners of interest under Tract 13 further alleged that the requirement set out in Finding No. (27) above would cause waste.

(33) That said waste would occur as the result ^{of} squeezing off Tubb Gas Pool production in the J. R. Cone Eubanks Well No. 2 located in Unit I of Section 14, Township 21 South, Range 37 East, NMPM, to provide a wellbore to said Unit on this 40-acre tract in Tract 13.

(34) That there is no requirement in said Unit Agreement or Unit Operating Agreement that the wellbore of said Eubanks Well No. 2 be given to the Unit.

(35) That if the owners of interest in said Tract 13 choose to give the wellbore in said Eubanks Well No. 2 to said Unit that the Tubb Gas Pool reserves could be economically produced by a new well completed by said owners therein.

(36) That there is no substantial evidence that waste will occur as the result of the granting of the proposed East Blinebry Unit.

(37) That there is substantial evidence that waste would occur if the proposed East Blinebry Unit were approved without Tract 13 and ~~or~~ without Tract 15.

(38) That the Statutory Unitization of the East Blinebry Unit Area, in conformance to the above findings, should be approved.

THE COMMISSION FURTHER FINDS:

39 (1) That to prevent the drilling of unnecessary wells and to efficiently lift the large volumes of fluids anticipated under waterflood operations, downhole commingling and surface commingling of the Blinebry Oil and Gas Pool and the Drinkard Pool within the East Blinebry Unit Area as defined in this order and the East Drinkard Unit Area as defined in Commission Order No. R-5594^C should be authorized.

40 (2) That the commingled production be allocated 64.544 percent to the Blinebry Oil and Gas Pool and 35.456 percent to the Drinkard Pool.

(7) That Tract 13 of the proposed unit comprises the following described lands:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 14: SW/4

(8) That Tract 15 of the proposed unit comprises the following described lands:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 13: N/2 NW/4 and NW/4 NE/4

(9) That the owners of interest in Tract 13 who filed requests for rehearing are J. R. Cone and Texaco Inc.

(10) That the owner of interest in Tract 15 who filed a request for rehearing is Summit Energy Inc.

(11) That by Order No. R-5593-A entered January 20, 1978, the Commission granted Cone's and Summit's requests for rehearing of Case No. 6069, but provided "That the evidence at said ~~hearing~~ rehearing shall be limited to evidence relating to the unitization of and waterflood operations on, Tract No. 13 and Tract No. 15 of the East Blinebry Unit Area...."

(12) That by Order No. R-5593-B entered January 24, 1978, the Commission granted Texaco's request for rehearing of Case No. 6069, but provided "That the evidence at said rehearing shall be limited to evidence relating to the unitization of Tract No. 13 of the East Blinebry Unit Area...."

(13) That when this cause came on for rehearing on February 21, 1978, the record in the original hearing of the case on October 20, 1977, was incorporated in the record of the rehearing, and the evidence in the rehearing was limited to evidence pertaining to Tract No. 13 and Tract No. 15 of the Blinebry Unit Area.

(14) That the Commission, in considering the record of the rehearing, should consider only what effect the inclusion or exclusion of said tracts would have on unit operations as a whole and on the tracts individually, having previously determined that "...the unitized management, operation, and further development of the subject portion of the Blinebry Oil and Gas Pool, as proposed, is reasonably necessary in order to effectively carry on secondary recovery operations and to substantially increase the ultimate recovery of oil from the pool...." and that "....the unitized method of operation....as applied to the East Blinebry Unit Area, is feasible, will prevent waste, and will result with reasonable probability in the increased recovery of substantially more oil from the pool than would otherwise be recovered." (Findings Nos. (6) and (7), Order No. R-5593.)

(15) That in considering the record of the rehearing, the Commission should determine whether the inclusion of Tract 13 and/or Tract 15 in the East Blinebry Unit Area is in the best interests of conservation to the end that greater ultimate recovery may be had therefrom, waste prevented, and correlative rights protected of all owners of mineral interests in the ~~unitized~~ area.

(16) That should the Commission find that the inclusion of either or both of said tracts in the unit is in the best interests of conservation to the above-described ends, it should affirm Order No. R-5593; ~~and~~ ^{and} should the Commission find that the inclusion of either or both of said tracts in the unit is not necessary to the best interests of conservation to the end that greater ultimate recovery may be had therefrom, waste prevented, and correlative rights protected of all owners of

mineral interests in the unitized area, it should amend Order No. R-5593 to exclude either or both of said tracts.

(17) That the evidence establishes that upon unitization of the East Blinebry Unit Area, applicant will institute a secondary recovery project in the area by the injection of water into the Blinebry formation through 38 injection wells, all in Township 21 South, Range 37 East, NMPM, and described and located as follows:

<u>UNIT WELL NUMBER</u>	<u>UNIT LETTER</u>	<u>SECTION</u>	<u>LOCATED ON TRACT. NO.</u>
2	C	12	1
4	A	11	1
6	C	11	1
8	E	11	1
10	G	11	1
12	E	12	1
14	G	12	1
16	K	12	6
18	I	11	1
20	K	11	3
22	M	11	3
24	O	11	1
26	M	12	7
28	O	12	9
30	C	13	15
32	A	14	1
34	C	14	11
36	E	14	10
38	G	14	12
40	E	13	1
42	G	13	1
44	K	13	1
46	I	14	1
48	K	14	13
50	M	14	13
52	O	14	14
54	M	13	1
56	C	24	21
58	A	23	18
60	C	23	16
62	E	23	16
64	G	23	17
66	E	24	21
69	I	23	20
71	K	23	19
73	M	23	19
75	O	23	20
77	M	24	22

(18) That the selection of the above-described 38 wells to be water injection wells in the East Blinebry Unit Area waterflood project was made in order to provide a uniform water injection pattern and to achieve an efficient sweep of oil from the unitized formation.

(19) That the evidence establishes that the deletion of Tract No. 13 from the unit area would very likely mean the loss to the average injection pattern of two proposed injection wells on Tract No. 13, namely Wells Nos. 48 and 50, located in Units K and M, respectively, of Section 14.

(20) That if said Wells Nos. 48 and 50 were not placed on water injection, the injection of water into three additional proposed injection wells directly offsetting Tract No. 13 would have to be suspended to prevent water injected into them from pushing oil off the unitized lands onto Tract No. 13.

(21) That the three additional wells into which no injection could occur are Wells Nos. 36 and 52, located in Units E and O, respectively, of Section 14, and Well No. 60, located in Unit C of Section 23.

(22) That the deletion of Tract No. 13 from the East Blinebry Unit Area and the subsequent loss of five wells to the waterflood injection pattern, being the five wells described in Findings Nos. (19) and (21) above, would result in a loss to the efficiency of the proposed 38-well injection pattern, and would have an effect on the secondary recovery of oil from Tracts Nos. 1(B-14), 10, 11, 12, 13, 14, 16, 17, and 18 of the unit area.

(23) That if the East Blimby oil field area is unitized and waterflood operations discontinued as proposed, secondary recovery from the Blimby Pool on the above-named tracts is expected to be as follows:

TRACT NO.	TOTAL ACRES	THOUSAND BARRELS CALCULATED	
		IN TRACT	SECONDARY RECOVERY
1(B-14)	160		235.1
10	80		234.3
11	80		191.9
12	80		293.2
13	160		386.5
14	80		270.8
16	160		302.6
17	120		163.2
18	40		24.4

(24) That if Tract No. 13 is not included in the East Blimby Unit, and the five wells described in Findings Nos. (19) and (21) above are not placed on water injection, portions of Tracts Nos. 1(B-14), 10, 11, 12, 13, 14, 16, 17, and 18 will not be swept by the Blimby flooding operation.

(25) That the Commission calculates that under the conditions described in Finding No. (24) above, the aforesaid tracts will be affected as follows:

(1) TRACT NO.	(2) TOTAL ACRES IN TRACT	(3) ACRES SWEPT BY FLOOD	(4) ACRES NOT SWEPT	(5) PERCENT LOSS $(Col 4/Col 2 \times 100)$
1(B-14)	160	138.17	21.83	13.64
10	80	24.62	55.36	69.23
11	80	50.39	29.61	37.01
12	80	74.19	5.81	7.26
13	160	0.00	160.00	100.00
14	80	16.02	63.98	80.00
16	160	78.72	81.28	50.80
17	120	89.58	30.42	25.35
18	40	34.89	5.11	12.78

(26) That by applying the above-derived percent loss to the barrels of Blueberry secondary recovery expected to be ~~estimated~~ obtained from full unit operations under each tract as arrived at in Finding No. (23) above, it must be concluded that the deletion of tract No. 13 from the East Blueberry Unit Area will result in the loss of secondary recovery from each of the affected tracts as follows:

TRACT NO.	THOUSAND BBL'S SECONDARY RECOVERY UNDER FULL UNITIZATION	PERCENT LOSS	THOUSAND BBL'S SECONDARY RE- COVERY LOSS
1 (B-14)	235.1	13.64	32.1
10	234.3	69.23	162.2
11	191.9	37.01	71.0
12	293.2	7.26	21.3
13	386.5	100.00	386.5
14	270.8	80.00	216.6
16	302.6	50.80	153.7
17	163.2	25.35	41.4
18	24.4	12.78	3.1

(27) That the total loss of Blinebry secondary recovery oil from all of the above tracts, resulting from the deletion of Tract No. 13 from the East Blinebry Unit Area and the resultant loss of five wells from the proposed 38-well waterflood injection pattern, is 1,087,900 barrels, of which 701,400 barrels of lost production would be sustained by the working interest ^{owners} and royalty owners ^{of tracts}, offsetting Tract No. 13, and 386,500 barrels by the working interest and royalty owners in Tract No. 13.

(28) That the evidence establishes that if Tract No. 15 were deleted from the unit area, a lease line agreement might be worked out whereby the operator of Tract No. 15 would put one well on water injection into the Blinebry formation, namely the Summit Bunin Well No. 2 located in Unit C of Section 13, Township 21 South, Range 37 (Unit Well No. 30 in Finding No. (17) above).

(29) That although the placing of said Bunin Well No. 2 on water injection into the Blinebry formation would be in conformance to the proposed Blinebry water injection pattern for the East Blinebry Unit Area, if the unit operator completed the proposed injection well pattern, there would be five injection wells on unitized lands offsetting the Bunin lease, as opposed to one injection well on the Bunin lease offsetting the unitized lands.

(30) That the aforesaid disparity in the number of injection wells on one property as opposed to the number of injection wells on the other property would cause drainage of oil from one property (the unitized lands) to the other property (the Bunin Lease) which would not be offset by counter-drainage, and would impair the correlative rights of owners in the unitized lands.

(31) That to prevent the aforesaid drainage and to protect the correlative rights of owners in the unitized lands, the unit operator would have to delete certain wells from the proposed Blinebry injection well pattern, namely Unit Wells Nos. 26 and 28, in Units M and O, respectively, of Section 12, and Unit Well No. 42 in Unit G of Section 13, all in Township 21 South, Range 37 East, NMPM.

(32) That the deletion of Tract No. 15 from the East Blinebry Unit Area and the subsequent loss of three wells to the waterflood injection pattern, being the three wells described in Finding No. (33) above, will result in serious loss to the efficiency of the 38-well injection pattern and will cause the loss of secondary recovery oil from Tracts Nos. 1, 4, 5, 6, 7, 8, 9, and 15 of the unit area.

(33) That if the East Blinebry Unit Area ~~and the East is~~
~~Brinkard Unit Area are~~ unitized as proposed, and ~~the entire~~
~~unit area is subject to the planned secondary recovery~~
~~operations~~, secondary recovery from the above-named tracts is ~~expected~~
~~calculated~~ to be as follows:

March 1972

(1) TRACT No.	(2) TOTAL ACRES IN TRACT	(3) TRACT ACRES SWEPT BY FLOOD	(4) THOUSAND BARRELS CALCULATED SECONDARY RECOVERY
1(B-11)	440	440.0	1,312.2
1(B-12)	240	181.1	425.9
1(B-13)	320	265.0	438.3
1(B-14)	160	160.0	235.1
4	40	32.7	61.4
5	40	40.0	104.8
6	40	40.0	54.8
7	40	40.0	81.7
8	40	40.0	46.7
9	40	20.9	33.2
15	120	98.0	296.0

(34) That if Tract No. 15 is deleted from the East Blinebry Unit Area, and the three wells described in Finding No. (34) above are not placed on ^{water} injection, the Commission calculates that the aforesaid tracts will be affected as follows:

March 1972

(1) TRACT No.	(2) ACRES FLOODED WITH FULL UNITIZATION	(3) ACRES FLOODED IF TRACT 15 IS DELETED	(4) ACRES LOST TO FLOOD $(Col 2 - Col 3)$	(5) PERCENT LOSS $(Col 4 \div Col 2 \times 100)$
1(B-11)	440.0	437.0	.30	0.68
1(B-12)	181.1	179.5	.6	0.88
1(B-13)	265.0	214.0	51.0	19.25
1(B-14)	160.0	159.3	.7	0.44
4	32.7	10.9	21.8	66.67
5	40.0	24.7	15.3	38.25
6	40.0	30.2	9.8	24.50
7	40.0	0.7	39.3	98.25
8	40.0	13.9	26.1	65.25
9	20.9	0.0	20.9	100.00
15	98.0	46.9	41.1	41.94

(35) That by applying the percent loss of flooded acres in each tract (as derived in Column 5 of Finding No. (34) above) to the barrels of secondary recovery expected to be obtained from full unit operations (Column 4, Finding No. (34) above) it must be concluded that the deletion of Tract No. 15 from the East Blinebry Unit Area will result in the loss of secondary recovery from the Blinebry formation from each of the affected tracts as follows:

TRACT NO.	THOUSAND BBL'S SECONDARY WITH FULL UNITIZATION	PERCENT LOSS IF TRACT IS DELETED	THOUSAND BBL'S SECONDARY RECOVERY LOST
1(B-11)	1312.2	0.68	89.23
1(B-12)	425.9	0.88	3.75
1(B-13)	438.3	19.25	84.37
1(B-14)	235.1	0.44	1.03
4	61.4	66.67	40.94
5	104.8	38.25	40.09
6	54.8	24.50	13.43
7	81.7	98.25	80.27
8	46.7	65.25	30.47
9	33.2	100.00	33.20
15	296.0	41.94	124.14

(36) That the total loss of Blinebry secondary recovery oil from all of the above tracts, resulting from the deletion of Tract No. 15 from the East Blinebry Unit Area and the resultant loss of three wells from the proposed 38-well Blinebry waterflood injection pattern, is 540,920 barrels, of which 416,780 barrels of lost production would be sustained by working interest owners and royalty owners of tracts offsetting Tract No. 15, and 124,140 barrels by the working interest owners and royalty owners of Tract No. 15.

(4) That Case 6069 originally was heard by the Commission on October 20, 197~~8~~⁷.

(5) That on December 27, 197~~8~~⁷, the Commission entered Order No. R-5593 approving the proposed statutory unitization, the secondary recovery operations to be conducted therein, incorporating the Unit Agreement and Unit Operating Agreement, and providing for the Unit to be effective upon ratification as required by statute.

(6) That the Commission received timely requests for rehearing from owners of interests under Tract 13 and Tract 15 of the proposed unit.

(7) That such owners of interest and such tracts are described as follows:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Tract 13 being Section 14: SW/4
J. R. Cone and Texaco Inc.

Tract 15 being Section 13: N/2 NW/4 and NW/4 NE/4
Summit Energy Inc.

(8) That by its Orders No. R-5593-A and R-5593-B entered on January 20 and January 24, 1978, respectively, the Commission granted the applications for rehearing limiting the evidence to be presented to the unitization of Tract 13 and Tract 15 of the East Blinebry Unit Area.

(9) That on February 21, 1978, a rehearing was held by the Commission in Case No. 6069.

(10) That the portion of the Blinebry Oil and Gas Pool proposed to be included in the aforesaid East Blinebry Unit Area has been reasonably defined by development.

(11) That the applicant proposes to institute a waterflood project for the secondary recovery of oil and gas in the proposed unit area, and in fact has sought and been granted approval to institute such a project in the East Blinebry Unit Area by Commission Order No. R-5591-B, dated _____.

Rec'd No.

IT IS FURTHER ORDERED:

- (11) (10) That the applicant is authorized to downhole commingle and surface commingle production from the Blinebry Oil and Gas Pool and the Drinkard Pool within the East Blinebry Unit Area as defined in this order and the East Drinkard Unit Area as defined in Commission Order No. R-5594 - C.
- (12) (11) That the commingled production be allocated 64.544 percent to the Blinebry Oil and Gas Pool and 35.456 percent to the Drinkard Pool.

(13) (12) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

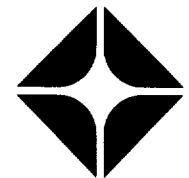
Emery C. Arnold
EMERY C. ARNOLD, Member

Joe D. Ramey
JOE D. RAMEY, Member & Secretary

S E A L

fd/

North American Producing Division
Permian District
Post Office Box 1610
Midland, Texas 79701
Telephone 915 682 8631



June 9, 1977

Royalty Interest Owners
East Drinkard and
East Blinebry Units
Lea County, New Mexico

Please attach the enclosed replacement pages to the East Drinkard and East Blinebry Unit Agreements furnished to you by cover letter dated June 1, 1977.

Thank you for your continued assistance.

Very truly yours,

Karyn Zimmerman

Karyn Zimmerman
Land Department

KZ:lh

Enclosures

F.H.B. # 6

ECONOMIC ANALYSIS
TRACT 15 - SUMMIT OPERATED

1) Tract 15

Join - Turn over 3 wells

	<u>Before Tax</u>	<u>After Tax</u>
Oil Price	Constant \$13.84	--
Gas Price	Constant 53¢/MCF	--
Total net oil, MBO/Net gas, BCF	276.3/0.69	
Total net investment, M\$	377.8	--
Expected payout, years	3.7	4.1
Expected economic life, years	21	--
Expected undiscounted present worth, MM\$	2.5	1.46

BEFORE THE	
OIL COMMISSIONER'S HEARING	
San Joaquin Valley	
Case No. _____	Plaintiff No. _____
Submitted by _____	
Meeting Date _____	

PRCO Ex 6
rehearing 2/21



ECONOMIC ANALYSIS
TRACT 13 - J. R. CONE OPERATED

1) Tract 13

<u>Join - Turn over 4 wells</u>		Before Tax	After Tax
Oil Price	Constant	\$13.84	--
Gas Price	Constant	53¢/MCF	--
Total net oil, MBO		751.8	--
Total net gas, MMCF		1737.4	--
Total net investment, M\$		1046.1	--
Tract participation, Phase I		7.14%	--
Tract participation, Phase II		8.37%	--
Expected payout, years		3.76	4.10
Expected undiscounted present worth, M\$	7406.7		3912

2) Tract 13

<u>Join - Unit carry one well</u>		Before Tax	After Tax
Oil Price	Constant	\$13.84	--
Gas Price	Constant	53¢/MCF	--
Total net oil, MBO		751.8	--
Total net gas, MMCF		1737.4	--
Non-taxable revenue	-	254.0 *	
Tract participation, Phase I		7.14%	--
Tract participation, Phase II		8.37%	--
Expected payout, years		4.18	4.7
Expected undiscounted present worth, M\$	7152.7		3658

3) Tract 13

<u>Join - Unit carry four wells</u>		Before Tax	After Tax
Oil Price	Constant	\$13.84	--
Gas Price	Constant	53¢/MCF	--
Total net oil, MBO		751.8	--
Total net gas, MMCF		1737.4	--
Total net investment, M\$		1046.1	--
Non-taxable revenue	-	1006.00 **	--
Tract participation, Phase I		7.14%	--
Tract participation, Phase II		8.37%	--
Expected payout, years		5.24	6.5
Expected undiscounted present worth, M\$	6390.7		2896

*Represents the \$200 M plus interest and recompletion cost in old well.

**Represents the cost of four wellbore penalties plus interest and recompletion costs in old wells.

John

*ANCO Ex 5
rehearing 2/21*

ECONOMIC ANALYSIS
EAST BLINBRY AND EAST DRINKARD UNITS

1) <u>Total Unit</u>	<u>Before Tax</u>	<u>After Tax</u>
Oil Price	Constant \$13.84	--
Gas Price	Constant 53¢/MCF	--
Total net oil, MBO/Net gas BCF	9142.9/22.9	--
Total net investment, M\$	12500.0	--
Expected payout, years	3.37	3.7
Expected economic life, years	21	--
Expected undiscounted present worth, MM\$	82.8	48.6

4
 Ex. ~~4~~ - Acco
 Reh. 2-22-78

RSEC

PHASE I: COMBINED ROYALTY INTEREST RATIFICATIONS

	<u>Blinebry</u> <u>(64,544%)</u>	<u>Drinkard</u> <u>(35.456%)</u>	<u>Total Combined</u> <u>Royalty Ratified</u>
Royalty Ratified	52.56231%	28.162665%	80.724975%

PHASE II: COMBINED ROYALTY INTEREST RATIFICATIONS

	<u>Blinebry</u> <u>(64.544%)</u>	<u>Drinkard</u> <u>(35.456%)</u>	<u>Total Combined</u> <u>Royalty Ratified</u>
Royalty Ratified	54.970059%	29.027012%	83.997071%

STATUS OF ROYALTY INTERESTS RATIFICATIONS

	Unit Participation by Tract	Total Participation by Tract
Ratified	Unsigned	Ratified
Tract #1	.209529	.209529
Tract #1A	000000	000000
Tract #2	.595788	.035004
Tract #3	.403212	.058572
Tract #4	.963021	.006811
Tract #5	.954688	.00309
Tract #6	.954664	.010021
Tract #7	.949704	.00454
Tract #8	.974904	.00031
Tract #9	.919216	.000597
Tract #10	.921034	.00052
Tract #11	.909079	.000649
Tract #12	.694100	.00016
Tract #13	.626626	.046946
Tract #14	.541672	.04024
Tract #15	.304350	.02537
Tract #16	.565344	.02537
Tract #17	.565360	.027912
Tract #18	.529704	.013165
Tract #19	1.000000	.043039
Tract #20	-0-	.028469
Tract #21	.809520	.015239
Tract #22	.809528	.013833
		.031618
		.045451
		.074994
		.022866
		.052608
		.011182
		.140569
		.082620
		.021844
		.008067
		.001537
		.006530
		.795786
		.620000

**BLINBRY PHASE II
STATUS OF ROYALTY INTERESTS RATIFICATIONS**

Royalty Interest Ratified by Tract	Unsigned Interest by Tract	Unit Participation by Tract Ratified	Total Participation by Tract
Tract #1	1.000000	.386311	.386311
Tract #1A	000000	000000	.386311
Tract #2	.403212	.596788	.016504
Tract #3	.963021	.036978	.046960
Tract #4	.954688	.045304	.009339
Tract #5	.954664	.045296	.000443
Tract #6	.949704	.050152	.015937
Tract #7	.974904	.024992	.000756
Tract #8	.919216	.080712	.008455
Tract #9	.974912	.024992	.000447
Tract #10	.921034	.078943	.012716
Tract #11	.909079	.090909	.000326
Tract #12	.694100	.305876	.00614
Tract #13	.626626	.032094	.000614
Tract #14	.541672	.027893	.000136
Tract #15	.304350	.032162	.005449
Tract #16	.565344	.038504	.034153
Tract #17	.434640	.022937	.027893
Tract #18	.529704	.023226	.002789
Tract #19	-0-	.014162	.030682
Tract #20	1.000000	.027016	.046335
Tract #21	~0~	.014333	.014173
Tract #22	.809520	.002129	.061441
	.809528	.065347	.022982
		~0~	.049215
		-0-	.018604
		~0~	.004378
		-0-	.007980
		~0~	.001877
		~0~	.009857
		~0~	.148332
		~0~	.851668
		~0~	1.000000

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**DRINKARD PHASE I
STATUS OF ROYALTY INTERESTS RATIFICATIONS**

Royalty Interest Ratified by Tract	Unsigned Interest by Tract	Unit Participation by Tract Ratified	Total Participation by Tract
		Unsigned	by Tract
1.000000	000000	.207599	.207599
.403212	.596788	.026429	.026429
.963021	.036978	.026934	.066799
.954688	.038212	.038212	.039865
.954664	.045304	.000620	.000629
.949704	.045296	.000617	.000649
.949704	.050152	.000033	.010318
.974904	.024992	.001052	.000027
.919216	.080712	.010812	.000949
.974912	.024992	.000633	.000649
.921034	.078943	.024350	.002087
.909079	.090909	.017185	.001718
.694100	.305876	.032726	.014421
.626626	.032094	.039219	.023363
.541672	.458328	.063602	.053815
.304350	.695650	.000804	.001837
.565344	.434656	.065826	.050609
.565360	.434640	.018645	.014334
.529704	.470296	.005036	.004472
1.000000	-0-	.141886	-0-
1.000000	-0-	.039022	-0-
.809520	.190480	.019283	.023819
.809528	.190472	.003956	.004887
	.794299	.205701	1.000000

DRINKARD PHASE II
STATUS OF ROYALTY INTERESTS RATIFICATIONS

Ratified by Tract	Unsigned Interest by Tract		Unit Participation by Tract		Total Participation by Tract
	Ratified	Unsigned	Ratified	Unsigned	
Tract #1	1.000000	000000	.168338	000000	.168338
Tract #1A			.047257	000000	.047257
Tract #2	.403212		.017463	.025847	.043310
Tract #3	.963021		.043926	.001687	.045613
Tract #4	.954688		.000123	.000006	.000129
Tract #5	.954664		.000123	.000006	.000129
Tract #6	.949704		.050152	.000123	.000129
Tract #7	.974904		.024992	.000126	.000129
Tract #8	.919216		.080712	.003290	.003579
Tract #9	.974912		.024992	.000126	.000129
Tract #10	.921034		.078943	.000124	.086991
Tract #11	.909079		.090909	.032171	.035388
Tract #12	.694100		.305876	.041822	.060253
Tract #13	.626626		.032094	.077847	.046373
Tract #14	.541672		.458328	.027894	.023603
Tract #15	.304350		.695650	.000119	.000271
Tract #16	.565344		.434656	.030504	.023452
Tract #17	.565360		.434640	.024737	.019018
Tract #18	.529704		.470296	.004917	.004365
Tract #19	1.000000	-0-	.125818	-0-	.125818
Tract #20	1.000000	-0-	.058399	-0-	.058399
Tract #21	.809520		.023589	.005550	.029139
Tract #22	.809528		.009841	.002316	.012157
			.818677	.181323	1.000000

LIST OF UNSIGNED ROYALTY INTEREST
BY TRACT

Tract No. 2

Estate of Max Gutman,	.0813802	}
D. L. Gutman, Trustee		
Daniel L. Gutman	.0271267	
Dorothy Gutman, Trustee	.0406901	
Irrev. Trust, Charles Gutman		
	<u>.149197/.25</u>	= .596788

Tract No. 3

Frederick L. Ercoline, Dec'd	.0019531	
Paul W. Godfrey, Dec'd	.0009765	
(Wife, Helen)		
Ann W. Marshall	.0007162	
Ellie Spear	.0009765	
	<u>.0046223/.125</u>	= .036978

Tract No. 4

Medora M. Lemaster	.001172	
Muriel T. McNeil Life Estate	.001953	
Moore Trust	.001757	
J. Hiram Moore, Trustee		
Betty Jane, Michael H. Moore		
J. L. and Jessie Reynolds	.000781	
	<u>.005663/.125</u>	= .045304

Tract No. 5

Medora M. Lemaster	.001171	
Muriel T. McNeil Life Estate	.001953	
Moore Trust	.001757	
J. Hiram Moore, Trustee		
Betty Jane and Michael H.		
Moore		
J. L. and Jessie Reynolds	.000781	
	<u>.005662/.125</u>	= .045296

Tract No. 6

Medora M. Lemaster	.001171	
Oscar D. Long, Dec'd	.001388	
(Wife, Lillian I.)		
Muriel T. McNeil Life Estate	.001953	
Moore Trust	.001757	
J. Hiram Moore, Trustee		
Betty Jane and Michael H.		
Moore		
	<u>.006269/.125</u>	= .050152

Tract No. 7

Muriel T. McNeil Life Estate	.001953	
Medora M. Lemaster	.001171	
	<u>.003124/.125</u>	= .024992

Tract No. 8

Medora M. Lemaster	.001171	
Moore Trust	.001757	
J. Hiram Moore, Trustee		
Betty Jane and Michael H.		
Moore		
Francis R. Reeves	.005208	
Muriel T. McNeil Life Estate	.001953	
	<u>.010089/.125</u>	= .080712

Tract No. 9

Medora M. Lemaster	.001171
Muriel T. McNeil Life Estate	.001953
	<u>.003124/.125 = .024992</u>

Tract No. 10

Joe and Jessie M. Crump Fund, Jessie B. Crump, David C. Blevins, and Ft. Worth Nat'l Bank, Trustees	.011718/.148437 = .078943
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Tract No. 11

Joe and Jessie M. Crump Fund, Jessie B. Crump, David C. Blevins, and Ft. Worth Nat'l Bank, Trustees	.015625/.171875 = .090909
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Tract No. 12

J. R. Cone, et ux	.003906
Getty Oil Company	.041015
Jack Markham	.001953
John J.	.003906
Atty-in-Fact	
	<u>.050780/.166015 = .305876</u>

Tract No. 13

Elizabeth Bowers	.019531
Marion C. Bowers	.004882
O. R. Eubanks	.001953
Ronald J. Byers	.005728
	<u>.032094/.08597 = .373316</u>

Tract No. 14

Jack Markham	.005208
John J.	.007813
Atty-in-Fact	
J. R. Cone, et ux	.010417
J. Herd	.007812
Robert J. Byers	.007812
Constance Byers	.007812
First Nat'l Bank, Lubbock, Trust, James T. S. Welborn	.010417
	<u>.057291/.125 = .458328</u>

Tract No. 15

N. B. Bunin Trust, NMP	.125
	<u>.125 /.179688 = .69565</u>

Tract No. 16

Constance Byers	.001785
John J. Christmann, Jr.	.002287
Ft. Worth Nat'l Bank, U/W of Roy S. Magruder, Dec'd	.004464
Elizabeth Hannifin	.004464
Jack Markham	.002092
Jack and Mary B. Markham	.004464
Nora L. Markham	.002232
Fannie G. Ratcliff, Indp. Exec. U/W, C. B. Markman, Dec'd	.002232
J. M. Welborn	.001116
Hubert C. Cone	.001953
J. R. Cone, et ux	.001116

Tract No. 16 (Continued)

Texaco, Inc.	.016071
Mrs. Eula I. Williamson	.010044
	<u>.565344/.125 = .434656</u>

Tract No. 17

Robert J. Byers	.001785
John J. Christmann	.002287
J. R. Cone, et ux	.001116
Hubert C. Cone	.001953
Ft. Worth Nat'l Bank, U/W of Roy S. Magruder, Dec'd	.004464
Elizabeth Hannifin	.004464
Jack Markham	.006556
Nora Markam	.002232
Fannie G. Ratcliff	.002232
Texaco, Inc.	.016071
J. M. Welborn	.001116
Mrs. Eula I. Williamson	.010044
	<u>.565360/.125 = .434640</u>

Tract No. 18

John J. Christmann	.001171
Hubert C. Cone	.001953
Jack Markham	.000976
Mrs. Eula I. Williamson	.054687
	<u>.058787/.125 = .470296</u>

Tract No. 21

Stella Donahue	.002976
Francis M. Stephens	.017858
Francis M. & Ethel Stephens	.002976
	<u>.023810/.125 = .190480</u>

Tract No. 22

Stella Donahue	.002976
Francis M. Stephens	.017857
Francis M. & Ethel Stephens	.002976
	<u>.023809/.125 = .190475</u>

COMBINED PARTICIPATION
UNSIGNED WORKING INTEREST
(EAST BLINEBRY UNIT - EAST DRINKARD UNIT)

	<u>PHASE I</u>	<u>PHASE II</u>
J. R. Cone	1.89406	2.22002
J. H. Herd	.25440	.29818
Hondo Drilling Company	.34116	.61001
Jack Markham	1.66532	1.95192
Ann W. Marshall	.02702	.02421
Redfern Oil Company	.38161	.44728
Summit Energy, Inc.	3.02726	3.01716
Texaco, Inc.	<u>2.94570</u>	<u>3.45264</u>
	<hr/> <hr/>	<hr/> <hr/>
	10.53657	12.02139

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COMBINED PARTICIPATION
UNSIGNED WORKING INTEREST
(EAST BLINERBY UNIT - EAST DRINKARD UNIT)

	<u>PHASE I</u>	<u>PHASE II</u>
J. R. Cone	1.89406	2.22002
J. H. Herd	.25440	.29818
Hondo Drilling Company	.34116	.61001
Jack Markham	1.66532	1.95192
Ann W. Marshall	.02702	.02421
Redfern Oil Company	.38161	.44728
Summit Energy, Inc.	3.02726	3.01716
Texaco, Inc.	<u>2.94570</u>	<u>3.45264</u>
	<u>10.53657</u>	<u>12.02139</u>

Total Capital Investment for both units: 12,500,000

Under unit agreement, these costs would be allocated to each unit on the same basis as production is shared:

Blimitay 64.544 %

Drinkard 35.456 %

Therefore capital investment for each unit would be:

Blimitay: .64544(12,500,000) = 8,068,000

Drinkard: .35456(12,500,000) = 4,432,000

*Yale, oil
TR 9-2*

Tract Participation

Phase I $25\% A + 25\% B + 20\% C + 25\% D + 5\% E$

Phase II $14\% F + 85\% G + 1\% E$

A = Bbls of primary reserves under Tract @ 4-1-76

Bbls of primary reserves under unit @ 4-1-76

B = MMCF of primary gas reserves under tract @ 4-1-76

MMCF of primary gas reserves under unit @ 4-1-76

C = Bbls of Oil produced from Tract 10-1-75 to 4-1-76

Bbls of Oil produced from Unit 10-1-75 to 4-1-76

D = Gas Production from Tract 10-1-75 to 4-1-76

Gas Production from Unit 10-1-75 to 4-1-76

E Surface Acres in Tract

Surface Acres in Unit

F Cum Oil Produced from Tract to 4-1-76

Cum Oil Produced from Unit to 4-1-76

G Ultimate Primary from Tract

Ultimate Primary from Unit

JASON W. KELLAHIN
ROBERT E. FOX
W. THOMAS KELLAHIN
KAREN AUBREY

KELLAHIN and FOX
ATTORNEYS AT LAW
P. O. BOX 1769
SANTA FE, NEW MEXICO 87501

TELEPHONE 982-4315
AREA CODE 505

December 6, 1978

Mr. Richard Stamets
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

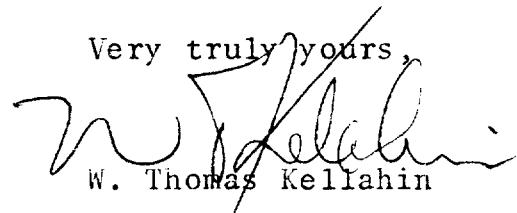
Re: Atlantic Richfield-Rehearing
Cases 6069, 6000, 6070 & 5998

Dear Mr. Stamets:

In accordance with our telephone conversation of December 1st, I am enclosing a letter and attachment recently received from Mr. John Byers.

Please call me if I can be of assistance.

Very truly yours,



W. Thomas Kellahin

CC: John C. Byers

WTK:kfm

Enclosure

PETROLEUM GEOLOGIST
RESERVOIR ENGINEERING

JOHN C. BYERS
BYERS ENGINEERING CO.
LUBBOCK NATIONAL BANK BLDG.
SUITE 6E P. O. BOX 6308
LUBBOCK, TEXAS 79413

TELEPHONE
(BD6) 762-0489

November 27, 1978

Mr. W. Thomas Kellahin, Esquire
Kellahin & Fox Attorneys
P.O. Box 1769
Santa Fe, New Mexico 87501

Re: Atlantic Richfield - Rehearing
Proposed East Blinebry-Drinkard Units
Lea County, New Mexico

Dear Tom:

Thank you for your letter of November 13, regarding your conversation with Dick Stamets of the New Mexico Oil Conservation Commission.

I enclose, herewith, for your use and that of the commission, a copy of the Atlantic prepared Unitization Parameter tables. These were the parameters employed in development of Unit Participation Percentages for the Blinebry and Drinkard Units respectively.

You will note that the tract numbers as printed on the parameter tables have changed. The altered numbers conform to the tracts as set out in the respective Unit Agreements.

Parameter Number 5, which is not used in the participation equation, expresses secondary reserve barrels of oil. This parameter is simply 70% estimated ultimate primary barrels of oil, as determined by the engineering subcommittee.

You will recall that Atlantic proposes to arbitrarily allocate 64.544% of Unit production to the Blinebry Unit and 35.456% to the Drinkard.

There is no real basis for this allocation, other than Atlantic's hope that the Blinebry and Drinkard formations will respond equally to secondary recovery.

It should further be evident that the Cone et al Eubanks Lease (Tract 13) represents 6.14546% of the Blinebry secondary recovery reserve and 12.43351% of that expected from the Drinkard, or a combined 824,353 barrels of secondary oil out of an estimated 9,810,843 barrels for the entire unit. There

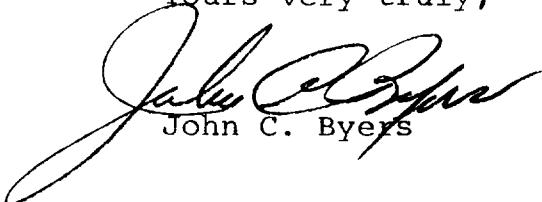
Mr. W. Thomas Kellahin, Esquire
Page Two

should not be any reason, therefore, that the omission of Tract 13 from the unit with an agreement that the operators of that tract will conduct secondary recovery operations fully compatible with the remainder of the Unit, should diminish the efficiency of the reduced unit operations.

Such an omission, as suggested above and to the commission, will enable the operators of Tract 13 to exploit the remaining reserves under that lease and simultaneously exploit the non unitized Tubb and Abo formations. In this regard, incidentally, we have not observed any decline in deliverability of gas from the Tubb formation during the period since the first hearing of this cause.

We hope this will be of material benefit to you and the commission. If you need added information, please call upon me.

Yours very truly,



John C. Byers

JCB:bp
Enclosures

cc: Mr. J. R. Cone
Texaco, Inc.
Attention: Mr. Morris Todd

LATEST PARAMETER TABLE

HANDED OUT AT MEETING OF JUNE 19, 1976

EAST ALINERY UNIT

PARAMETER NUMBER	PARAMETER NAME
1 F	CUM OIL TO 4-1-76, A0
2 A	REMAINING PRIMARY OIL FROM 4-1-76, A0
3 B	REMAINING PRIMARY GAS FROM 4-1-76, MMCF
4 G	ULT PRIMARY OIL, %
5 S	SFSECONDARY OIL H0, % (UP)
6 C	CURRENT OIL PRODUCTION, %
7 D	CURRENT GAS PRODUCTION, MCF
8	GAS EQUIVALENT & CURRENT OIL, %
9	CURRENT, %
10	DEVELOPED ACRES
11 E	SURFACE ACRES
12	REMAINING PRIMARY GAS EQUIVALENT AND OIL, %

INPUT DATA-- PARAMETER HY TRACT

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TRACT NO	PARAM 1 F	PARAM 2 A	PARAM 3 B	PARAM 4 G	PARAM 5	PARAM 6 C	PARAM 7 D	PARAM 8 E	PARAM 9	PARAM 10	PARAM 11 F	PARAM 12	
1-1	1735951.	138589.	2439.	1814540.	1312178.	12091.	123736.	17040.	160506.	480.	480.	236145.	
3-2	120433.	30403.	457.	150836.	105585.	2672.	67958.	5390.	48467.	40.	40.	58687.	
4-3	362116.	63254.	1343.	425370.	297759.	5759.	81567.	9022.	83691.	120.	120.	116954.	
5-4	529123.	26296.	168.	608419.	425893.	3233.	18989.	3993.	38407.	240.	240.	33016.	
6-5	215194.	22164.	272.	237358.	166151.	1667.	18805.	2419.	22688.	80.	80.	33032.	
7-7	185013.	10145.	176.	195056.	136541.	904.	13415.	1441.	13330.	0.	0.	17101.	
8-8	66745.	0.	66745.	46722.	0.	0.	0.	0.	40.	40.	0.	0.	
9-7	47463.	0.	47463.	33224.	0.	0.	0.	0.	40.	40.	0.	0.	
10-10	294832.	34959.	1605.	334741.	234319.	3200.	102875.	7315.	64920.	80.	80.	104043.	
11-11	256383.	17824.	780.	274207.	191945.	2077.	59686.	4464.	39870.	80.	80.	49004.	
12-12	36032.	49416.	1206.	418794.	243159.	2997.	63523.	5538.	50297.	80.	80.	97664.	
13-13	325730.	10175.	1294.	235134.	1358.	125936.	6395.	39812.	160.	160.	61948.		
14-13	446492.	X	55236.	2456.	552158.	386511.	4820.	147008.	10700.	85076.	160.	160.	157472.
15-14	346397.	42472.	879.	386869.	270808.	2630.	37557.	4148.	38446.	80.	80.	77624.	
16-15	35131.	71855.	731.	422666.	296020.	4464.	41711.	6135.	5800.	120.	120.	101087.	
18-1	58977.	37405.	491.	626162.	434327.	2328.	17111.	3012.	28136.	320.	320.	57061.	
19-16	0.	0.	421.	0.	0.	0.	0.	0.	0.	0.	0.	36850.	
19a-16	364248.	X	68185.	1370.	432333.	302633.	5808.	116895.	10484.	95486.	160.	160.	122895.
20-17	166555.	X	66501.	1502.	233086.	163160.	4041.	57190.	6329.	53067.	120.	120.	126561.
21-18	33460.	-	1027.	260.	34467.	24407.	318.	45102.	2122.	12200.	40.	40.	11411.
22-19	4584462.	142067.	4009.	600549.	420384.	8420.	232609.	17724.	154261.	160.	160.	326423.	
24-20	384169.	54586.	2390.	443755.	310629.	5674.	176421.	12731.	113195.	160.	160.	155194.	
25-21	181150.	21454.	437.	203839.	142687.	1361.	38255.	2891.	22243.	120.	160.	39435.	
26-22	78153.	701.	187.	78854.	55198.	317.	25776.	1348.	8325.	80.	80.	3185.	
TOTAL	8009899.	974920.	26572.	8984819.	6289374.	76139.	1612585.	140642.	1230432.	3040.	3080.	2037792.	

		<u>14-13</u>
2-A		
25%	X	
5.44520	=	1.41643
3-B		
25%	X	
9.61884	=	2.40471
6-C		
20%	X	
1.33053	=	1.26611
7-D		
25%	X	
9.11630	=	2.27908
11-E		
5%	X	
5.19481	=	0.25974

$$\begin{array}{r}
 \text{14-13} \\
 \hline
 1-F \quad 1420 \times L-20385 = 0.86854 \\
 4-C \quad 8520 \times L-14546 = 5.32364 \\
 11-E \quad 120 \times 5.19481 = 0.05195 \\
 \hline
 L-1441384
 \end{array}$$

Param 1	Crude oil to 4-1-76
Param 2	Remaining primary gas ② 4-1-76
Param 3	Remaining primary gas ③ 4-1-76
Param 4	Ultimate primary oil (Param 1 + Param 2)
Param 5	Secondary oil (Param 4 x 0.7)

$$\begin{array}{r}
 & = 1.4143 \\
 & = 2.40471 \\
 & = 1.26411 \\
 & = 2.27908 \\
 \hline
 & = 0.28974
 \end{array}
 \quad \text{I}$$

97.52

11.0 198 ~~1~~ = 7.63

OUTPUT DATA—PARTICIPATION BY TRACT BY PARAMETER

Blmehr

EAST DRINKARD UNIT

PARAMETER NUMBER	PARAMETER NAME	
1 F	CUM OIL IN 4-1-76,BO	II (400)
2 A	REMAINING PRIMARY OIL FROM 4-1-76,BO	I (25%)
3 B	REMAINING PRIMARY GAS FROM 4-1-76,MMCF	I (25%)
4 G	ULT PRIMARY OIL,BO	II (85%)
5 S	SF PRIMARY OIL,BO	II (85%)
6 C	CURRENT OIL PRODUCTION,BO	I (20%)
7 D	CURRENT GAS PRODUCTION,MMCF	I (25%)
8	GAS EQUIVALENT & CURRENT OIL,BO	
9	CUMMINT,%	
10	DEVELOPED ACRES	
11 E	SURFACE ACRES	I(5%), II (1%)
12	REMAINING PRIMARY GAS EQUIVALENT AND OIL,BO	

INPUT DATA--PARAMETER BY TRACT

CUM 4-1-76

Dinkland

TRACT NO.	PARAM 1	PARAM 2	PARAM 3	PARAM 4	PARAM 5	PARAM 6	PARAM 7	PARAM 8	PARAM 9	PARAM 10	PARAM 11	PARAM 12	WLT
													PRIM
1-1	523604.	100544.	1590.	624208.	436946.	9247.	102895.	13363.	125340.	400.	440.	164136.	
2-	215816.	21241.	296.	233057.	166640.	1379.	15193.	1996.	1A652.	40.	40.	33081.	
3-3	209640.	7600.	960.	216240.	151368.	991.	116358.	5645.	47145.	40.	40.	46012.	
4-3	212249.	15403.	609.	227652.	159356.	1352.	37316.	2845.	25461.	120.	120.	39767.	
5-1	72645.	28803.	213.	101448.	71014.	1616.	7854.	1930.	18073.	120.	246.	37319.	
6-2	0.	0.	16.	0.	0.	0.	0.	0.	0.	0.	80.	640.	
7-2	0.	0.	18.	0.	0.	0.	0.	0.	0.	0.	80.	720.	
8-8	6A93.	12223.	29.	19116.	13381.	1161.	2794.	1273.	12504.	40.	40.	1339.	
9-1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	40.		
10-10	426159.	6845.	344.	433003.	303102.	1011.	32503.	2311.	20511.	80.	80.	20609.	
11-11	162481.	14300.	225.	177281.	124097.	953.	7935.	1285.	12180.	80.	90.	23788.	
12-12	267751.	36953.	551.	304504.	213223.	2258.	28071.	3351.	31563.	80.	80.	59297.	
13-1	95855.	14355.	155.	110240.	77166.	1401.	1973.	1479.	14631.	40.	160.	20597.	
14-13	565726.	59763.	553.	625439.	437842.	3946.	23252.	4976.	46901.	160.	160.	81767.	
15-14	132774.	145450.	542.	278224.	194757.	8921.	30377.	10136.	98931.	80.	80.	167302.	
16-15	0.	0.	29.	0.	0.	0.	0.	0.	0.	0.	120.	1160.	
18-1	6442.	0.	16.	6442.	4509.	0.	0.	0.	0.	40.	320.	640.	
19-3	124703.	76653.	1640.	201361.	140953.	3855.	80348.	7069.	64261.	80.		14424.	
19-3	76901.	0.	108.	75901.	53831.	0.	0.	0.	0.	0.	80.	4312.	
20-17	197646.	21758.	303.	219404.	153543.	2349.	17675.	3096.	29546.	120.	120.	33874.	
21-18	39898.	7939.	45.	46337.	32786.	926.	2829.	1034.	10165.	40.	40.	9751.	
22-19	589785.	40525.	1572.	630410.	441287.	4194.	220818.	13027.	99938.	160.	160.	103505.	
24-22	293648.	5449.	419.	289097.	202368.	1734.	61939.	3712.	32161.	160.	160.	22189.	
25-21	127218.	181A9.	121.	145407.	101785.	1906.	10933.	2343.	22559.	120.	160.	23041.	
26-22	59250.	0.	42.	59250.	41475.	388.	3234.	517.	4915.	80.	80.	1680.	
TOTAL	4396148.	634523.	10458.	5030671.	3521471.	49137.	804348.	81310.	736099.	2120.	3080.	1052831.	

OUTPUT DATA-- PARTICIPATION BY TRACT BY PARAMETER

District

TRACT NO	PARAM 1	PARAM 2	PARAM 3	PARAM 4	PARAM 5	PARAM 6	PARAM 7	PARAM 8	PARAM 9	PARAM 10	PARAM 11	PARAM 12
1-1	-0.1191189	-0.1546660	-0.1520219	-0.1240805	-0.1881811	-0.1274235	-0.1643463	-0.1703520	-0.1886792	-0.1428572	-0.1558997	
2-2	-0.043195	-0.0334755	-0.0243045	-0.0473211	-0.0280644	-0.0188886	-0.0244250	-0.0253340	-0.0188679	-0.0129870	-0.0314210	
3-3	-0.0474597	-0.0119755	-0.0119759	-0.0424943	-0.0201581	-0.01446913	-0.06444257	-0.0640471	-0.0188679	-0.0129870	-0.0437031	
4-4	-0.0482807	-0.0242749	-0.0532442	-0.0452528	-0.0452527	-0.0275149	-0.0463929	-0.0345491	-0.0566038	-0.0395611	-0.0377715	
5-5	-0.0165247	-0.0453932	-0.021659	-0.021660	-0.021660	-0.047644	-0.0237363	-0.0253615	-0.0566038	-0.077421	-0.0354463	
6-6	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	
7-7	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	
8-8	-0.015660	-0.0142633	-0.0024113	-0.0037999	-0.0236278	-0.0034736	-0.0156561	-0.0164868	-0.0188679	-0.0129870	-0.0127266	
9-9	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	
10-10	-0.0969390	-0.0107876	-0.0324040	-0.0860726	-0.060726	-0.0205751	-0.0404091	-0.0284221	-0.0278645	-0.0377359	-0.0259740	
11-11	-0.0369593	-0.0233246	-0.0214466	-0.0352400	-0.0352401	-0.0195983	-0.0099285	-0.0157663	-0.0165549	-0.0377359	-0.0259740	
12-12	-0.0619054	-0.0530542	-0.0605494	-0.0530542	-0.0605494	-0.0505494	-0.0454931	-0.0484991	-0.0415915	-0.0428787	-0.0377359	
13-13	-0.0218043	-0.0220706	-0.0148503	-0.0219136	-0.0219136	-0.024918	-0.024929	-0.024929	-0.0181849	-0.0198764	-0.0195635	
14-13	-0.1286363	-0.0441557	-0.0524350	-0.0524350	-0.0406117	-0.0289079	-0.0549690	-0.0637156	-0.0574177	-0.0519491	-0.0195635	
15-15	-0.0302023	-0.0229223	-0.0522390	-0.0553055	-0.0553056	-0.1815336	-0.0377660	-0.1246587	-0.1343990	-0.0377359	-0.0259740	
16-16	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	
17-17	-0.0146554	-0.015300	-0.012805	-0.012804	-0.012804	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	
18-18	-0.0283576	-0.1208041	-0.1515343	-0.0400257	-0.0400257	-0.0784541	-0.0998921	-0.0869389	-0.0472994	-0.0377358	-0.0259740	
19-19	-0.0174223	-0.0	-0.0103082	-0.0152664	-0.0152664	-0.0152665	-0.0	-0.0	-0.0	-0.0	-0.0	
20-20	-0.0449588	-0.0342903	-0.0284643	-0.0436133	-0.0436133	-0.0486192	-0.0219743	-0.0380765	-0.0401386	-0.0566038	-0.0349610	
21-21	-0.0098492	-0.0125118	-0.0043317	-0.0093103	-0.0093103	-0.0184453	-0.0035171	-0.0127783	-0.0138093	-0.0188679	-0.0129870	
22-22	-0.0134159	-0.0640245	-0.1503149	-0.1253133	-0.1253133	-0.0953532	-0.2745304	-0.1602140	-0.1356763	-0.0754717	-0.0519491	
23-23	-0.0085976	-0.0115991	-0.0259041	-0.0259041	-0.0259041	-0.0574659	-0.0749052	-0.0456524	-0.0436911	-0.0754717	-0.0519491	
24-24	-0.0289385	-0.0286556	-0.0040162	-0.0117773	-0.0117773	-0.0073963	-0.040207	-0.0063584	-0.0066771	-0.0377358	-0.0259740	
25-25	-0.0134777	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	
TOTAL	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	

14-13

II

$$2-A \quad 25.7 \times 9.41857 = 235.464$$

$$3-B \quad 25.7 \times 5.26024 = 131.506$$

$$4-C \quad 20.9 \times 8.03041 = 160.612$$

$$7-D \quad 25.7 \times 2.89079 = 72.270$$

$$11-E \quad 5.92 \times 5.19481 = 0.25974$$

$$1-F \quad 14.20 \times 12.86848 = 180.62$$

$$4-C \quad 8.57 \times 12.43351 = 10.56848$$

$$11-E \quad 1.70 \times 5.19481 = 0.05195$$

14-13

SUMMIT ENERGY, INC.

TRACT NO	PARAM 1	PARAM 2	PARAM 3	PARAM 4	PARAM 5	PARAM 6	PARAM 7	PARAM 8	PARAM 9	PARAM 10	PARAM 11	PARAM 12
16	.0	.0	.0027731	.0	.0	.0	.0	.0	.0	.0	.0389610	.0011018
TOTAL	.0	.0	.0027731	.0	.0	.0	.0	.0	.0	.0	.0389610	.0011018

TRACT NO	PARAM 1	PARAM 2	PARAM 3	PARAM 4	PARAM 5	PARAM 6	PARAM 7	PARAM 8	PARAM 9	PARAM 10	PARAM 11	PARAM 12
14	.0530833	.038516	.0216985	.0512882	.0512882	.0331263	.0119245	.0247368	.0262827	.0311321	.0214286	.0320364
TOTAL	.0530833	.038516	.0216985	.0512882	.0512882	.0331263	.0119245	.0247368	.0262827	.0311321	.0214286	.0320364

TRACT NO	PARAM 1	PARAM 2	PARAM 3	PARAM 4	PARAM 5	PARAM 6	PARAM 7	PARAM 8	PARAM 9	PARAM 10	PARAM 11	PARAM 12
2	-0.030425	0.020922	0.0017690	0.0029576	0.0029576	0.0017540	0.0011805	-0.0015266	0.0015837	0.0011792	0.0008117	0.00196388
TOTAL	.0030825	.0020922	.0017690	.0029576	.0029576	.0017540	.0011805	.0015266	.0015837	.0011792	.0008117	.00196388

YOUNG, S. D.

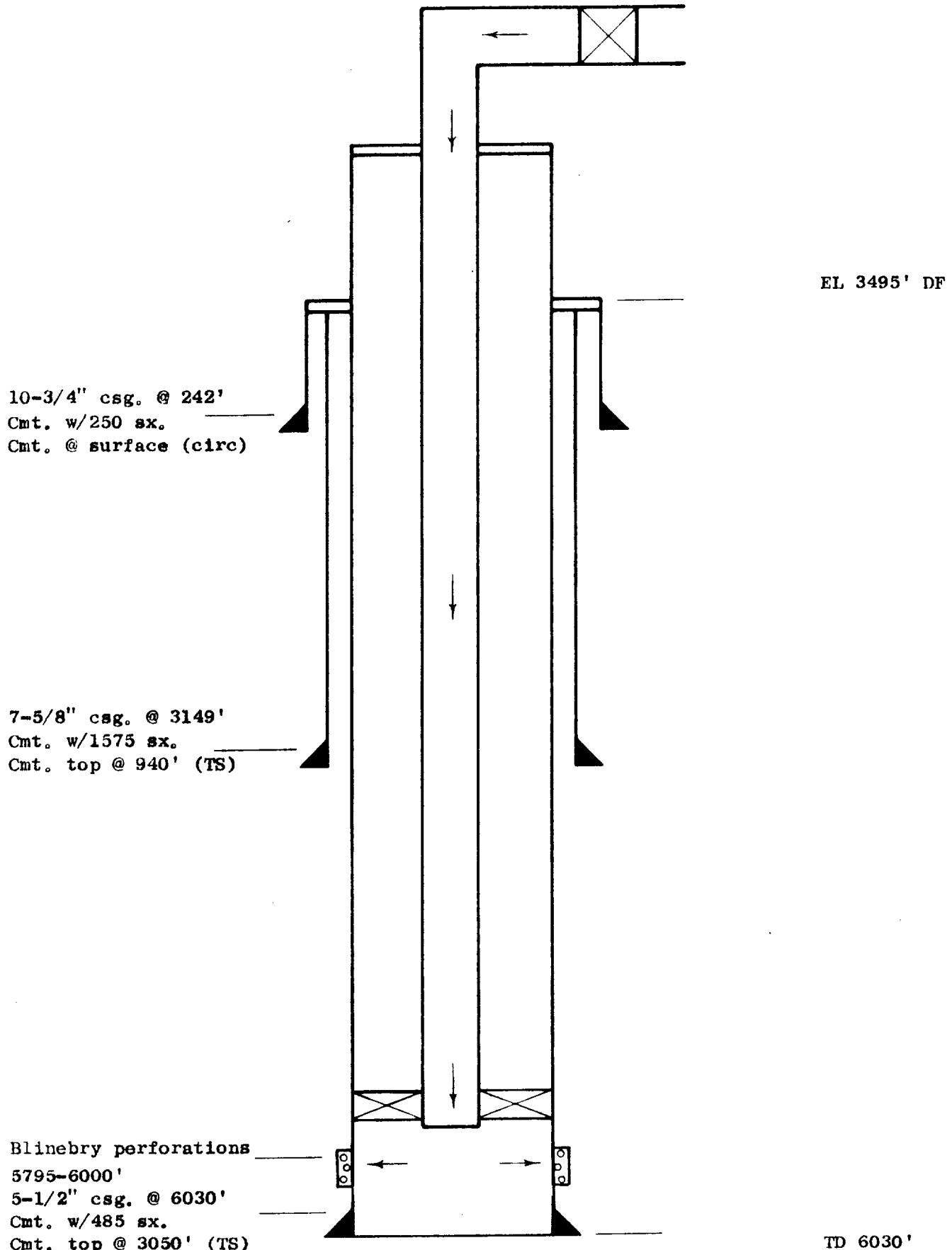
TRACT	PARAM											
NO	1	2	3	4	5	6	7	8	9	10	11	12
2	.0061649	.0041844	.0035381	.0059151	.0059151	.0035080	.0023611	.0030531	.0031673	.0023585	.0016234	.0039276
TOTAL	.0061649	.0041844	.0035381	.0059151	.0059151	.0035080	.0023611	.0030531	.0031673	.0023585	.0016234	.0039276

CONOCO-LOCKHART B-12 NO. 6

UNIT C - 330' FNL & 1980 FWL

SECTION 12 - T21S - R37E

LEA COUNTY, NEW MEXICO

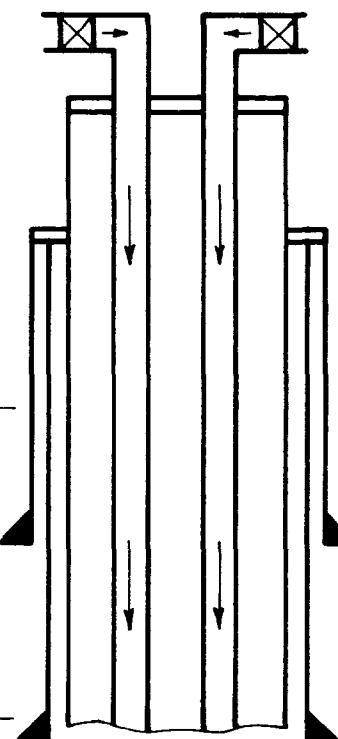


CONOCO-LOCKHART B-II NO. 6

UNIT A 330' FNL & 330' FEL

SECTION II, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO



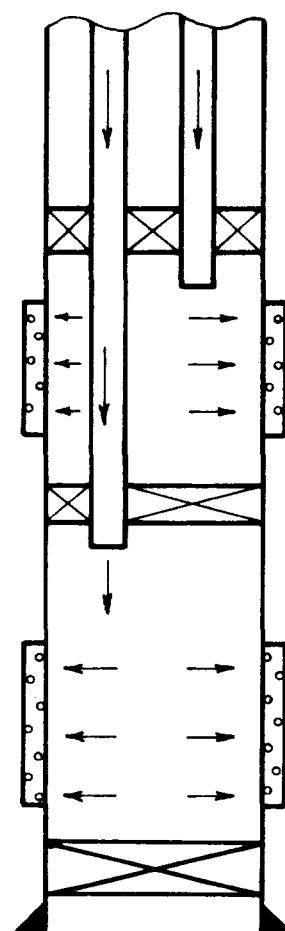
13-3/8" csg. @ 246'
Cmt. w/260 sx.
Cmt. top @ surface (circ)

9-5/8" csg. @ 3136'
Cmt. w/1797 sx.
Cmt. top @ surface (circ)

**Blinebry perforations
5750-6050'**

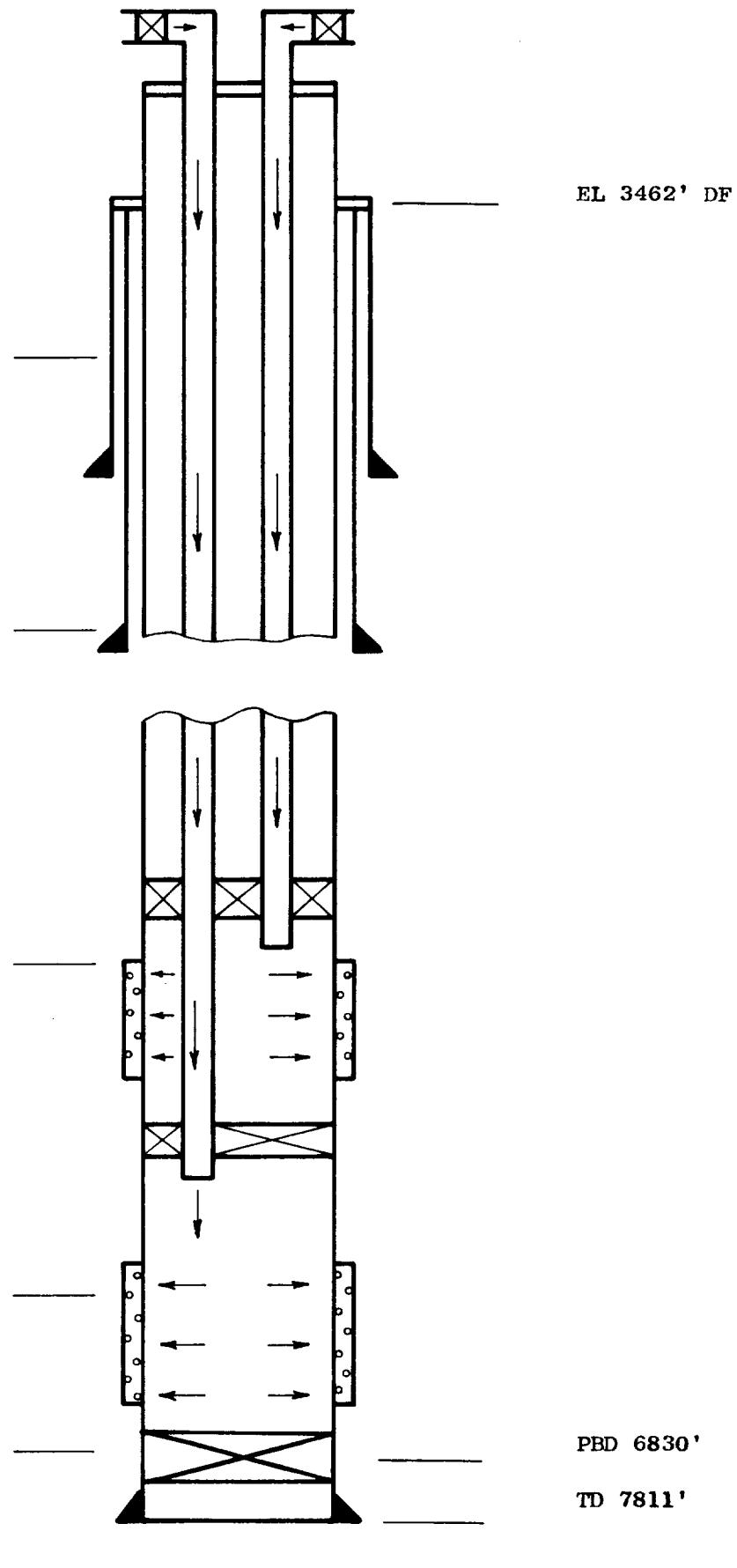
**Drinkard perforations
6680-6766'**

7" csg. @ 8064' w/948 sx.
Cmt. top @ 3220' (TS)



Proposed Blinebry Unit Well No. 4 UT
Proposed Drinkard Unit Well No. 4 LT

CONOCO-LOCKHART B-II NO. 4
 UNIT C 330' FNL & 1650' FWL
 SECTION II, T 21 S, R 37 E
 LEA COUNTY, NEW MEXICO



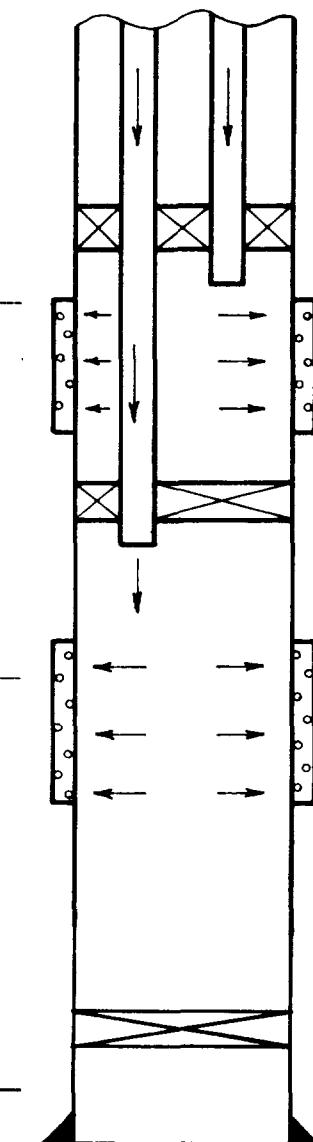
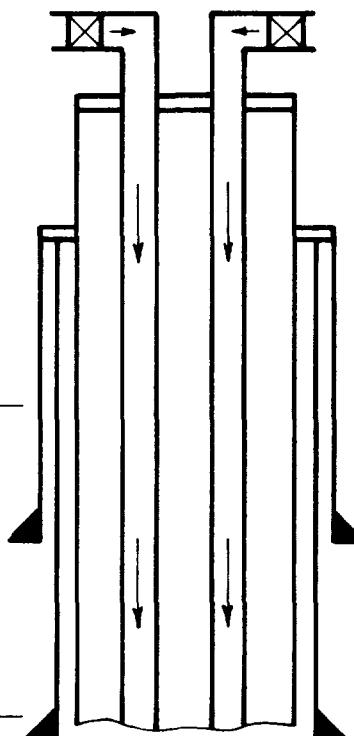
Proposed Blinebry Unit Well No. 6 UT
 Proposed Drinkard Unit Well No. 6 LT

CONOCO - LOCKHART B-II NO.3

UNITE - 1980' FNL & 350' FWL

SECTION II - T 21S - R 37E

LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 8 UT
Proposed Drinkard Unit Well No. 8 LT

CONOCO - LOCKHART B-II NO.17

UNIT G - 1980' FNL & 1980' FEL

SECTION II - T21S - R37E

LEA COUNTY, NEW MEXICO

13-3/8" csg. @ 368'
Cmt. w/300 sx.
Cmt. top @ surface (circ)

9-5/8" csg. @ 3094'
Cmt. w/1150 sx.
Cmt. top @ 1600' (TS)

**Blinebry perforations
5750-5930'**

**Drinkard perforations
6582-6708'**

7" csg. @ 7499'
Cmt. w/650 sx.
Cmt. top @ 3600' (TS)

EL 3455' DF

PBD 6750'

TD 7500'

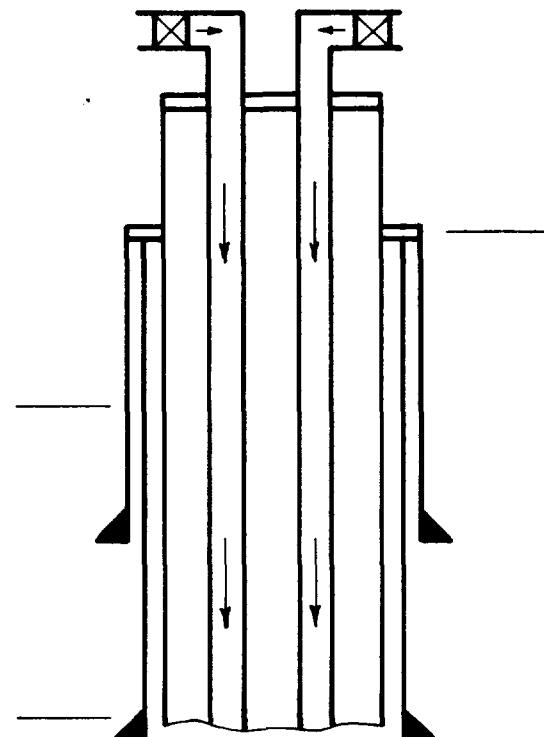
**Proposed Blinebry Unit Well No. 10 UT
Proposed Drinkard Unit Well No. 10 LT**

CONOCO-LOCKHART B-12 NO. 4

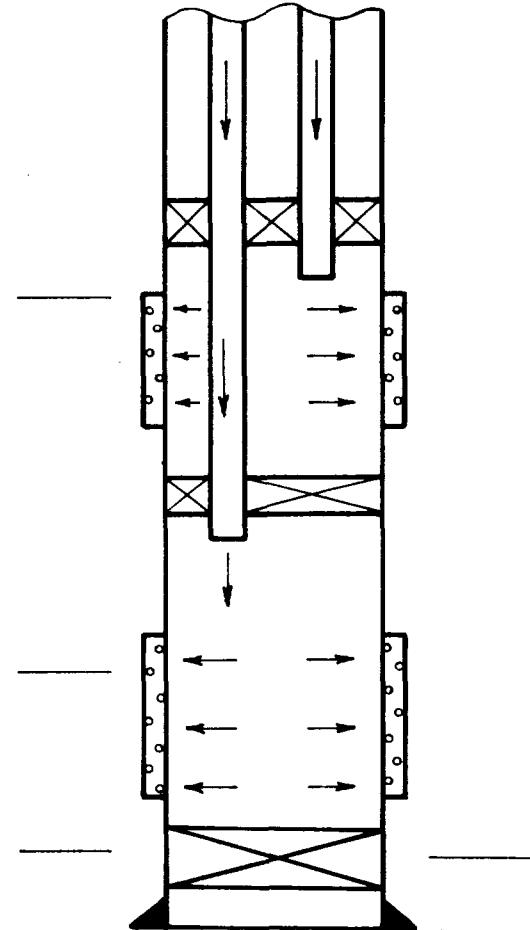
UNIT E 1650' FNL & 660' FWL

SECTION 12, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO



7-5/8" csg. @ 3160'
Cmt. w/1244 sx.
Cmt. top @ 390' (TS)



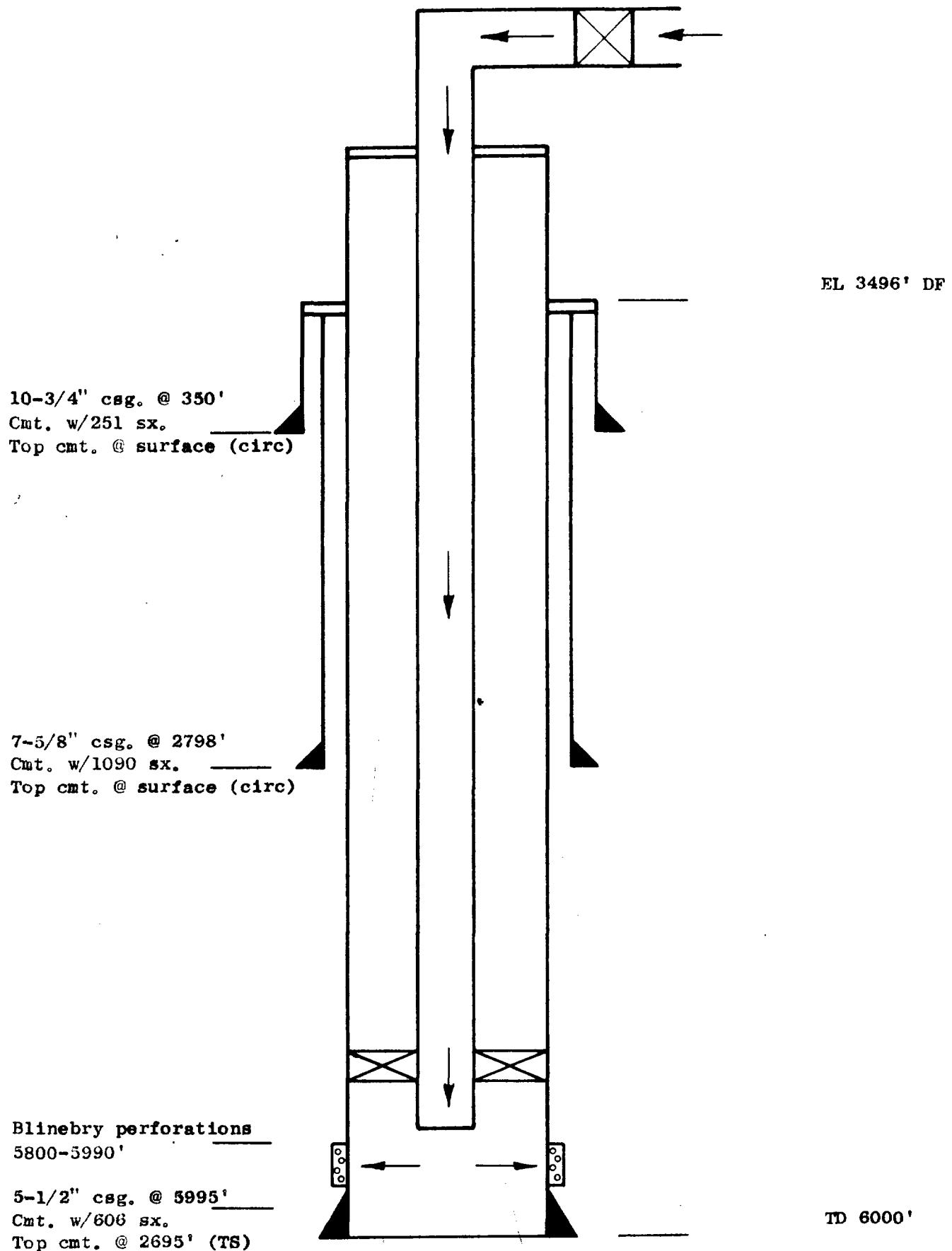
Proposed Blinebry Unit Well No. 12 UT
Proposed Drinkard Unit Well No. 12 LT

CONOCO - LOCKHART "B-12" NO. 9

UNIT G - 1980' FNL & 2310' FEL

SECTION 12 - T21S-R37E

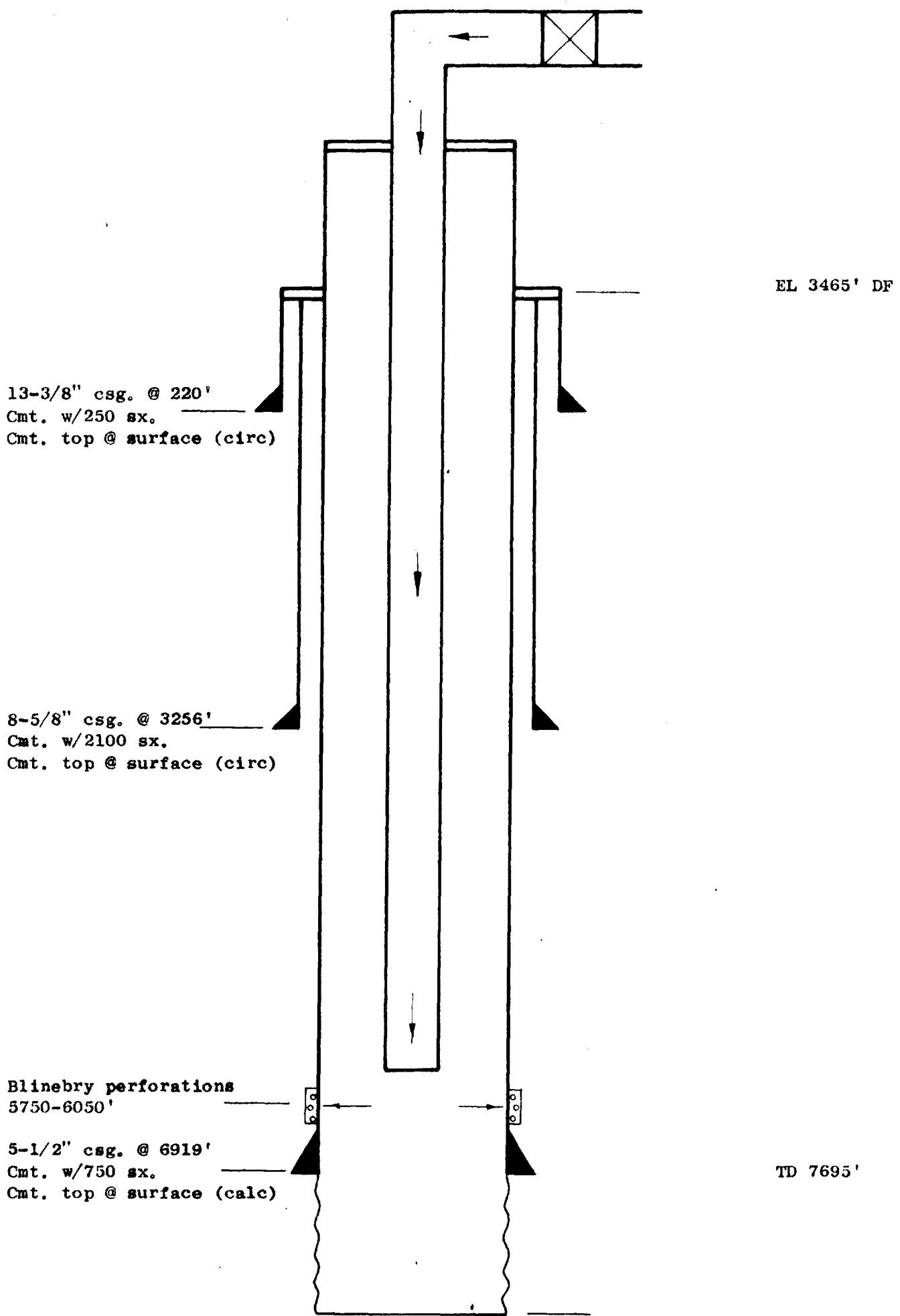
LEA COUNTY, NEW MEXICO



SHELL - CHESHER NO. 1

UNIT K - 1980' FSL & 1980' FWL
SECTION 12 - T21S-R37E

LEA COUNTY, NEW MEXICO



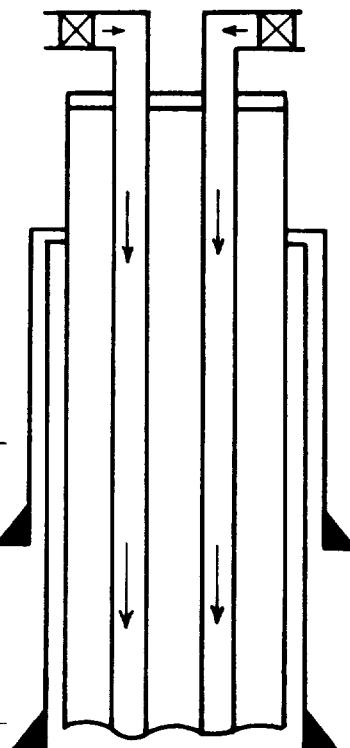
CONOCO - LOCKHART B-II NO. II

UNIT I 1980' FSL & 330' FEL

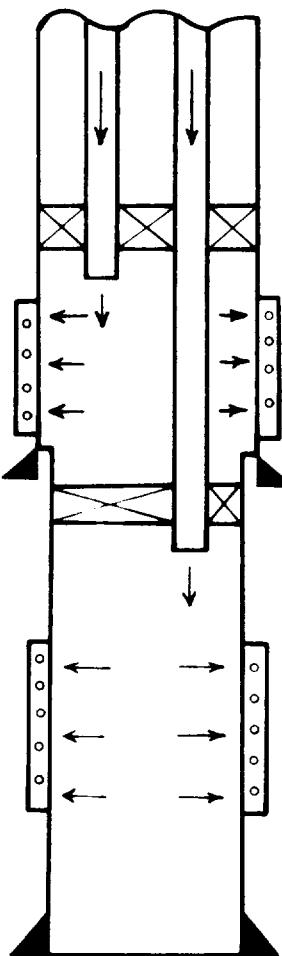
SECTION II, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

10-3/4" csg. @ 265'
Cmt. w/300 sx.
Cmt. top @ surface (circ)



7-5/8" csg. @ 2953'
Cmt. w/700 sx.
Cmt. top @ 1350' (TS)



Blinebry perforations
5715-5860'

5-1/2" csg. @ 5899'
Cmt. w/300 sx.
Cmt. top @ 2825' (TS)

Drinkard perforations
6570-6700'

4" liner 5875-6780'

Proposed Blinebry Unit Well No. 18 UT
Proposed Drinkard Unit Well No. 18 LT

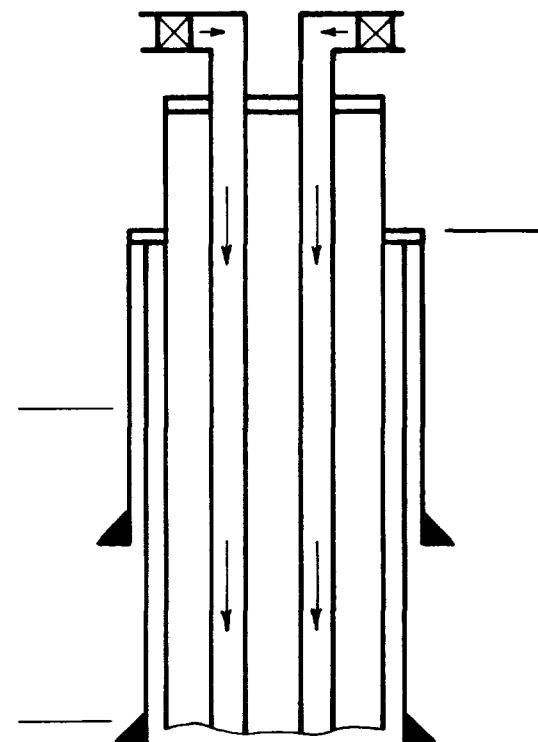
CONOCO-NOLAN NO.3

UNIT K - 1980' FSL & 1980' FWL

SECTION II - T21S-R37E

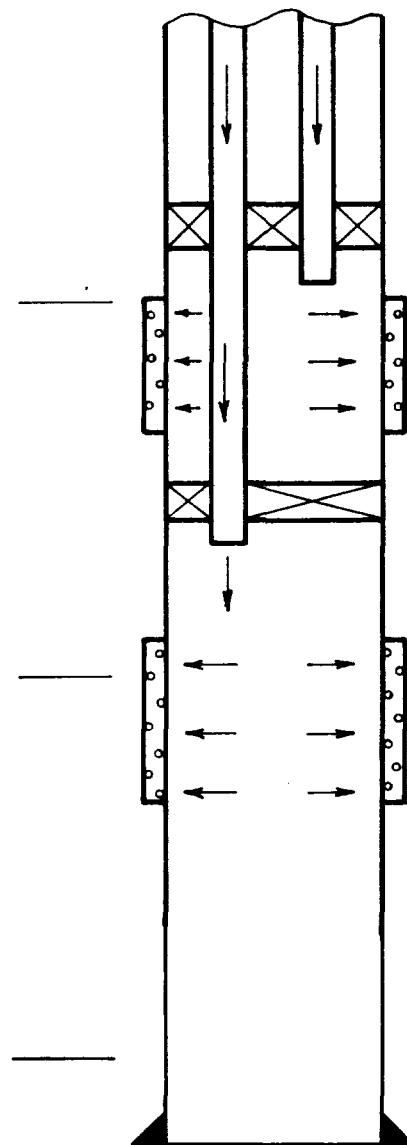
LEA COUNTY, NEW MEXICO

13-3/8" csg. @ 350'
Cmt. w/250 sx.
Cmt. top @ surface (circ)



EL 3447' DF

9-5/8" csg. @ 3093'
Cmt. w/1200 sx.
Cmt. top @ 1500' (TS)



Blinebry perforations
5738-6050'

Drinkard perforations
6580-6730'

7" csg. @ 7492'
Cmt. w/625 sx.
Cmt. top @ 3800' (TS)

TD 7492'

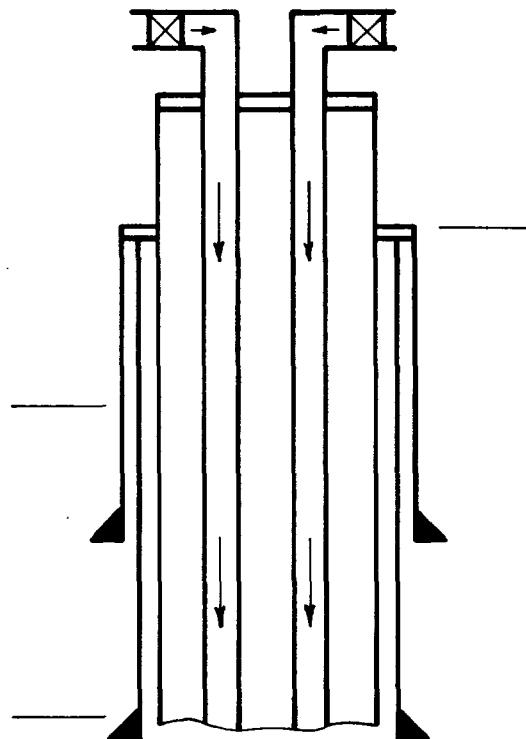
Proposed Blinebry Unit Well No. 20 UT
Proposed Drinkard Unit Well No. 20 LT

CONOCO-NOLAN NO. I

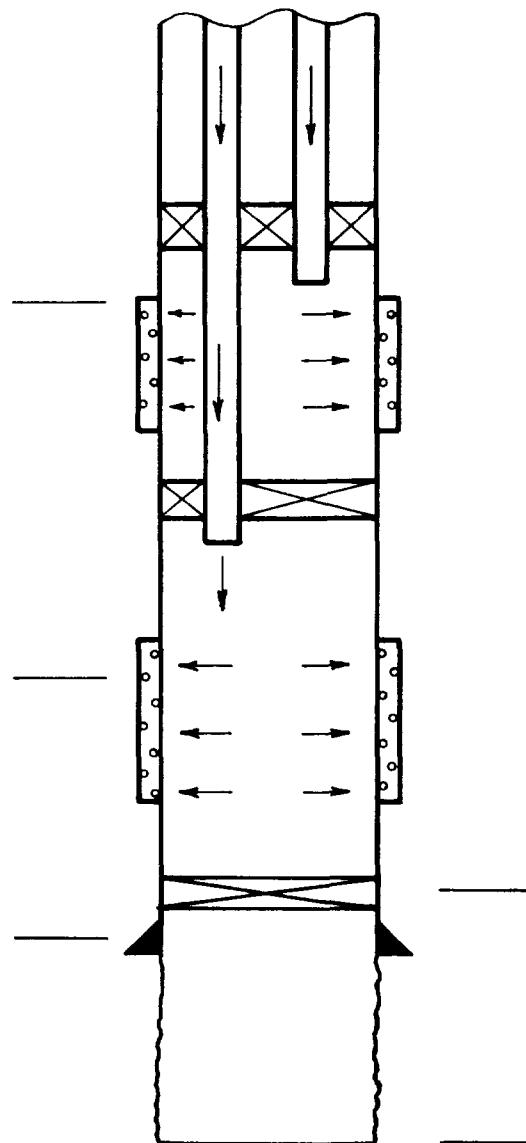
UNIT M - 660' FSL & 660' FWL

SECTION II - T21S-R37E

LEA COUNTY, NEW MEXICO



7-5/8" csg. @ 3069'
Cmt. w/2040 sx.
Cmt. @ surface (circ)



Drinkard perforations
6530-6642'

5-1/2" csg. @ 6699'
Cmt. w/358 sx.
Cmt. top @ 3225' (TS)

TD 7523'

Proposed Blinebry Unit Well No. 22 UT
Proposed Drinkard Unit Well No. 22 LT

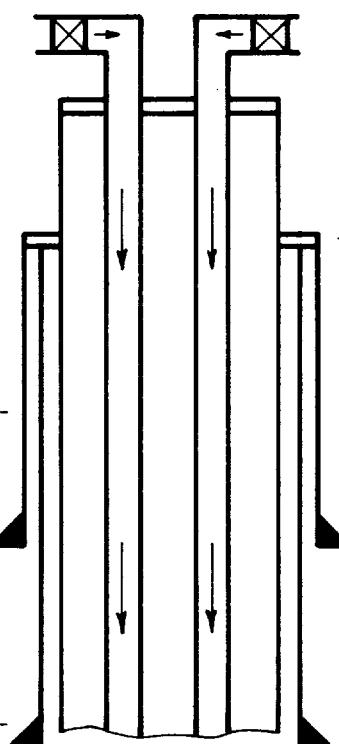
CONOCO-LOCKHART B-II- NO. 8

UNIT 0, 660' FSL & 1980' FEL

SECTION II, T 21 S, R 37 E

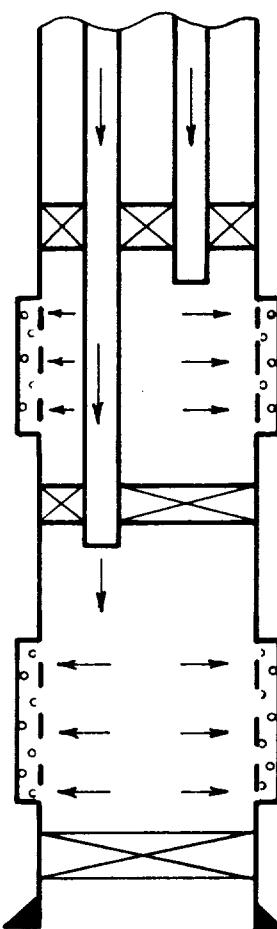
LEA COUNTY, NEW MEXICO

13-3/8" csg. @ 268'
Cmt. w/250 sx.
Cmt. top @ surface (circ)



9-5/8" csg. @ 2996' w/2100 sx.
Cmt. top @ surface (circ)

**Blinebry perforations
5694-5920'**



**Drinkard perforations
6560-6650'**

7-1/2" csg. @ 7576'
Cmt. w/861 sx.
Cmt. top @ 3380' (TS)

PBD 6860'

TD 7577'

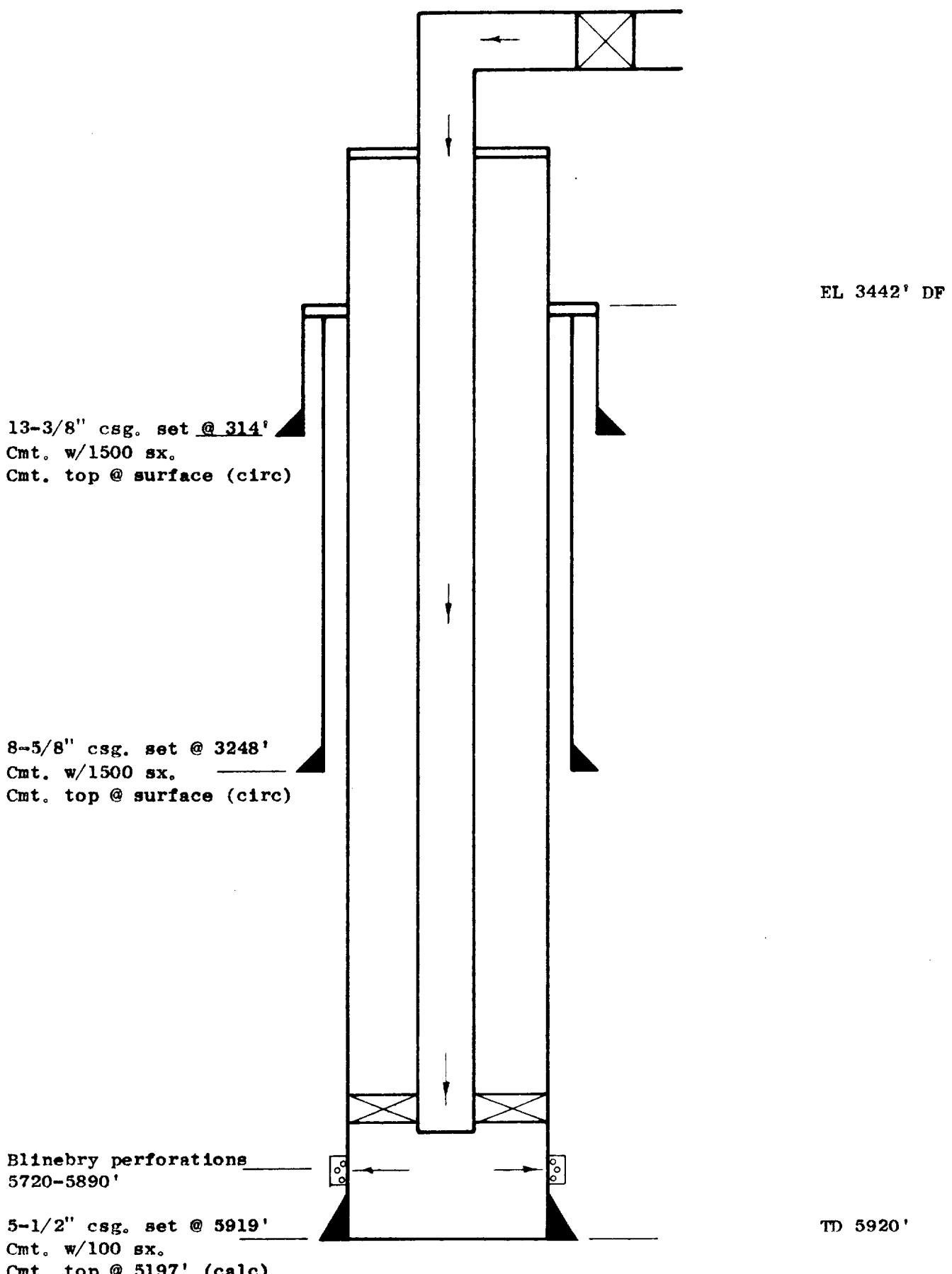
**Proposed Blinebry Unit Well No. 24 UT
Proposed Drinkard Unit Well No. 24 LT**

SHELL - CHESHER NO. 2

UNIT M - 660' FSL & 660' FWL

SECTION 12 - T2IS-R37E

LEA COUNTY, NEW MEXICO

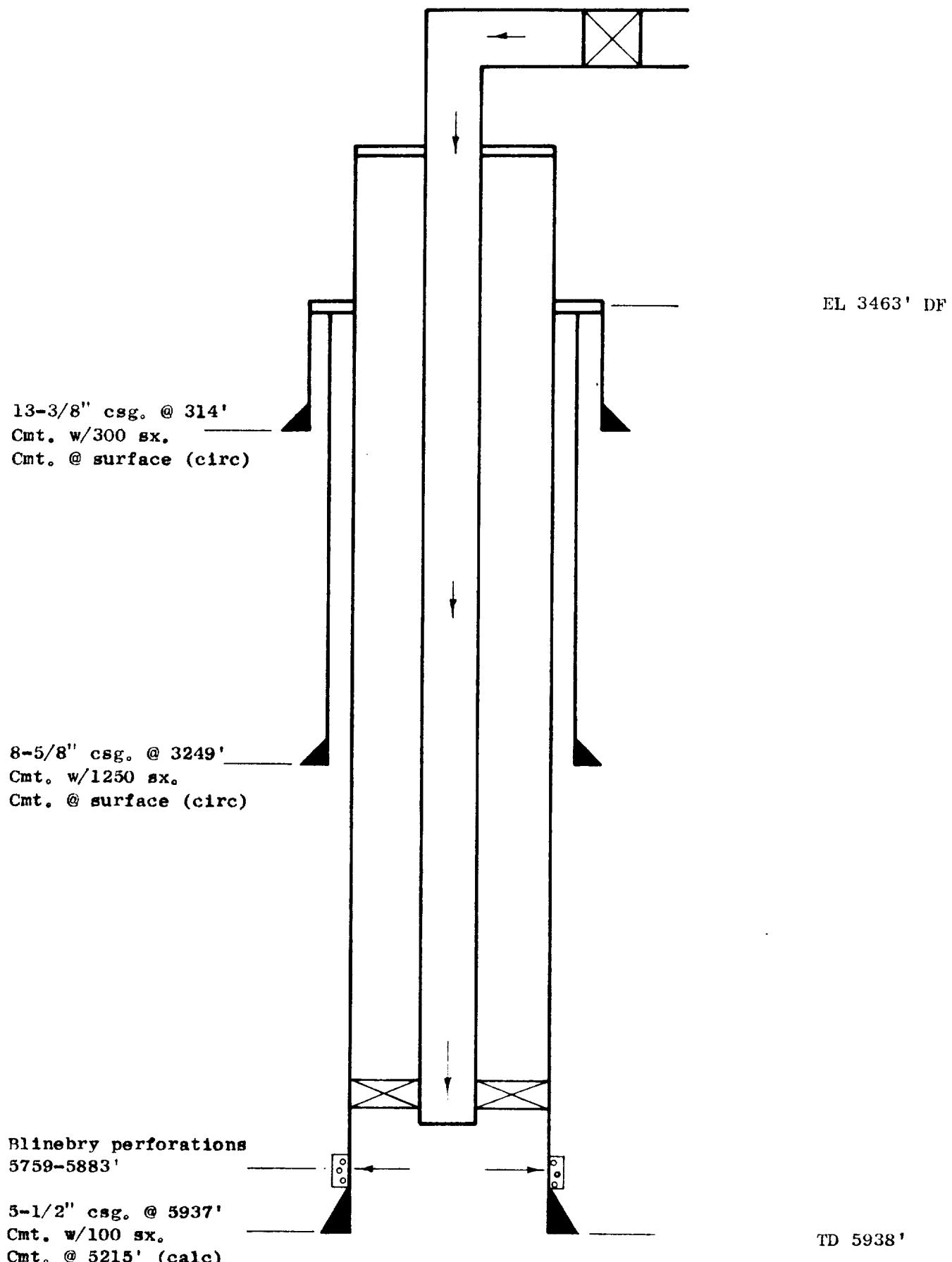


SHELL - FIELDS NO. 1

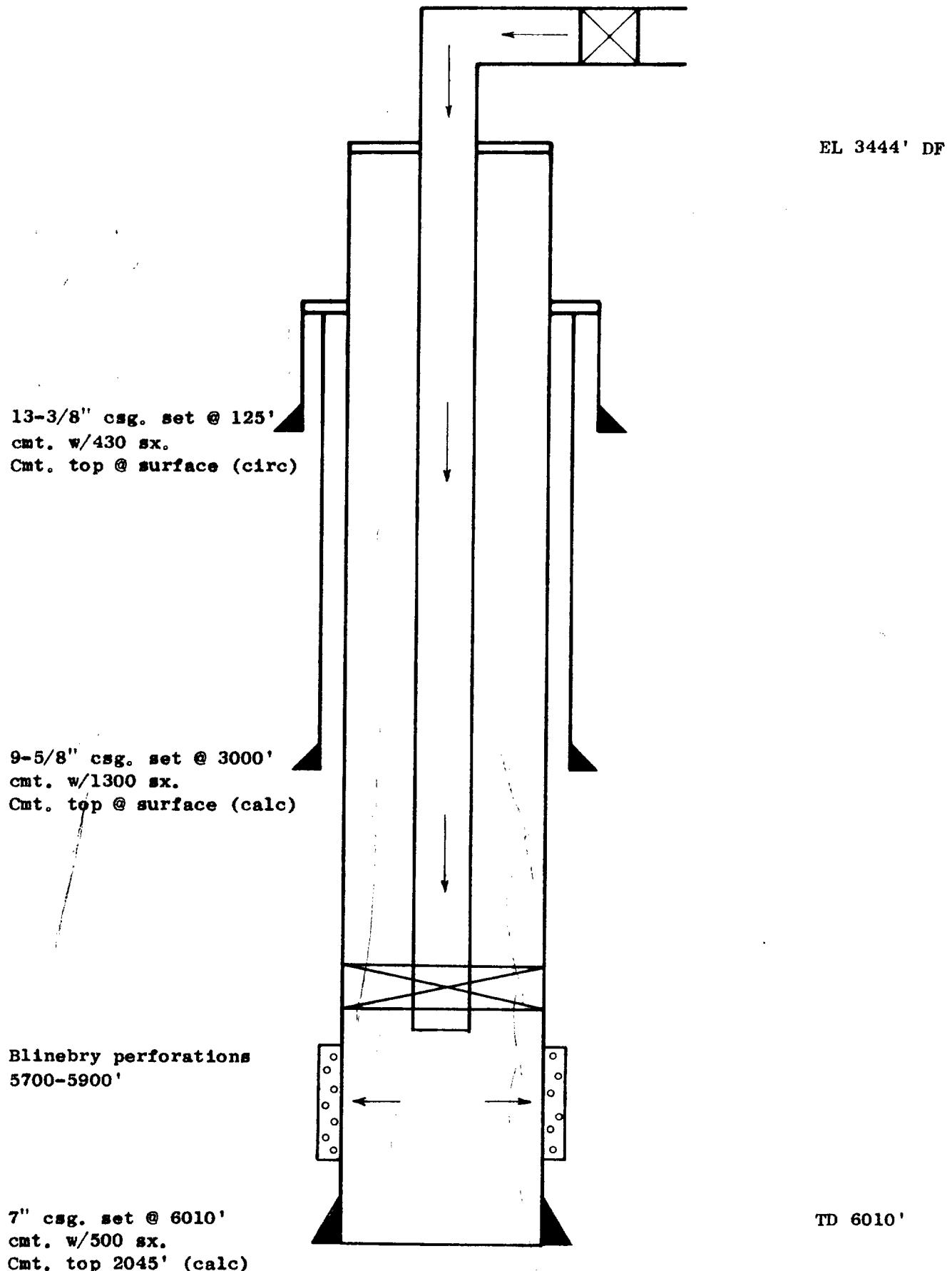
UNIT 0 - 660' FSL & 2310' FEL

SECTION 12 - T21S-R37E

LEA COUNTY, NEW MEXICO



SUMMIT - BUNIN NO. 2
UNIT C 660' FNL & 1650' FWL
SECTION 13, T 21 S, R 37 E
LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 30

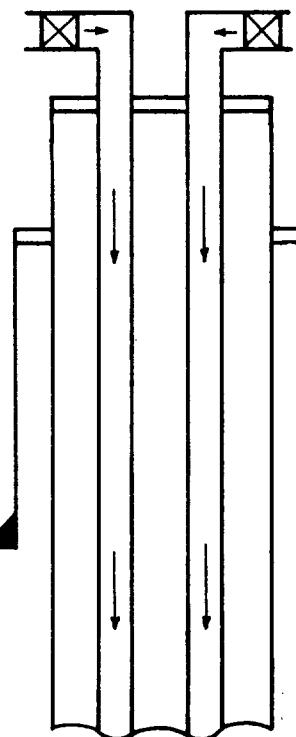
CONOCO-LOCKHART B-14 NO. 3

UNIT A 660' FNL & 330' FEL

SECTION 14, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

8-5/8" csg. set @ 1411'
w/725 sx. cmt.
Cmt. top @ surface (circ)



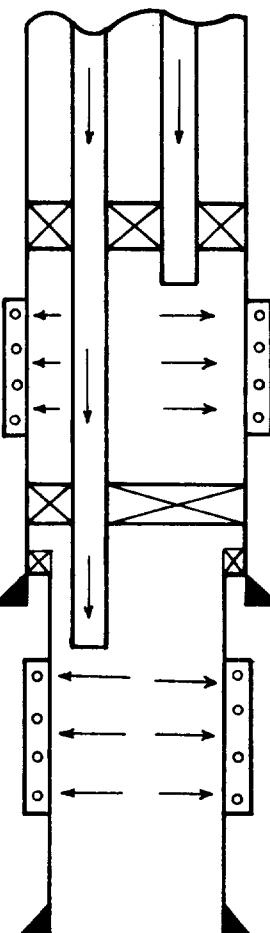
EL 3436' DF

Blinebry perforations
5740-5860'

5-1/2" csg. set @ 5899'
Cmt. w/2575 sx.
Top cmt. @ 2160' (TS)

Drinkard perforations
6620-6710'

3-1/2" liner hung from
5870-6900'



TD 6900'

Proposed Blinebry Unit Well No. 32 UT
Proposed Drinkard Unit Well No. 32 LT

EXHIBIT NO. 58

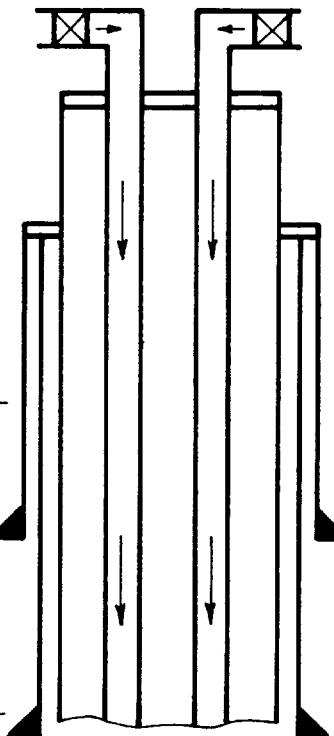
SHELL - ANDREWS NO. 2

UNIT C 990' FNL & 1980' FWL

SECTION 14, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

13-3/8" csg. set @ 221'
Cmt. w/250 sx.
Cmt. top @ surface (circ)

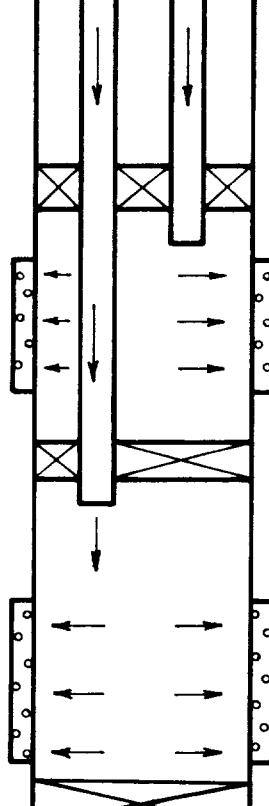


EL 3412' DF

8-5/8" csg. set @ 3001'
Cmt. w/2100' sx
Cmt. top @ surface (circ)

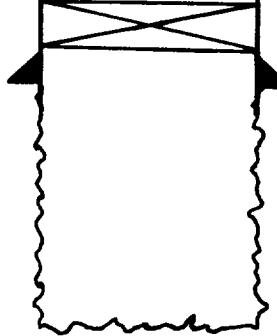
Blanebry perforations

5705-5815'



Drinkard perforations
6530-6680'

5-1/2" csg. set @ 6940'
Cmt. w/450 sx.
Cmt. top @ 4985' (TS)



PBD 6850'

OH 6940-7443'

TD 7443'

**Proposed Blanebry Unit Well No. 34 UT
Proposed Drinkard Unit Well No. 34 LT**

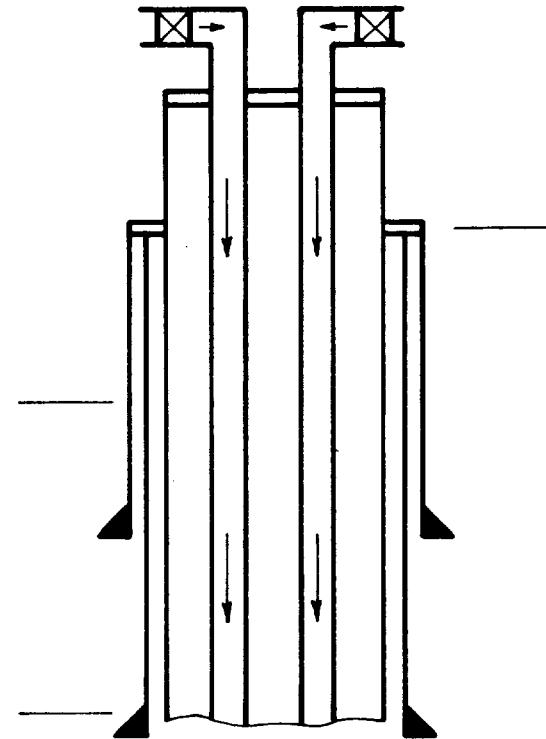
MORANCO - OWEN NO. I

UNIT E 1980' FNL & 660' FWL

SECTION 14, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

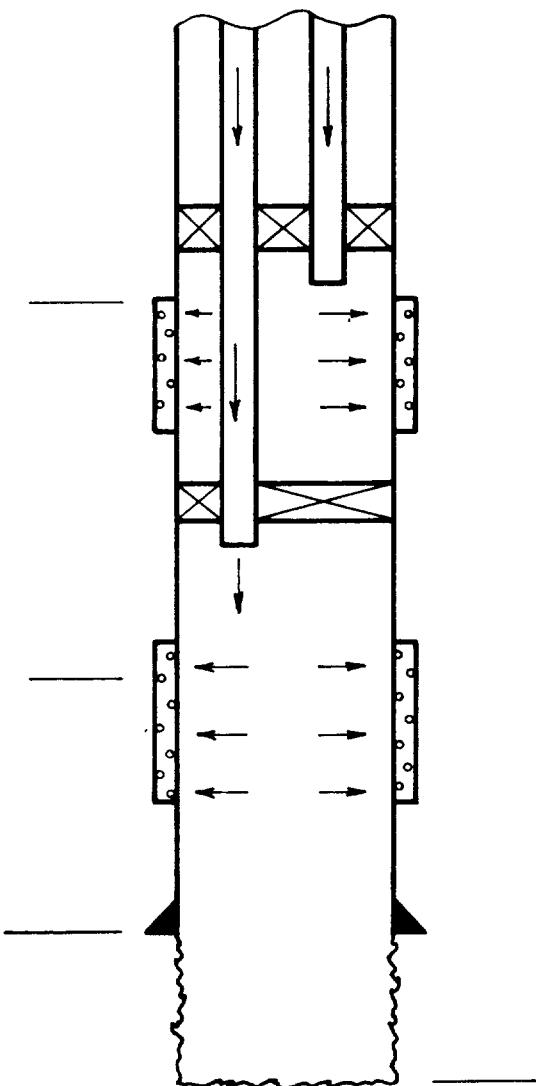
13-3/8" csg. set @ 166'
w/125 sx.
Cmt. top @ surface (circ)



Blinebry perforations
5720-5830'

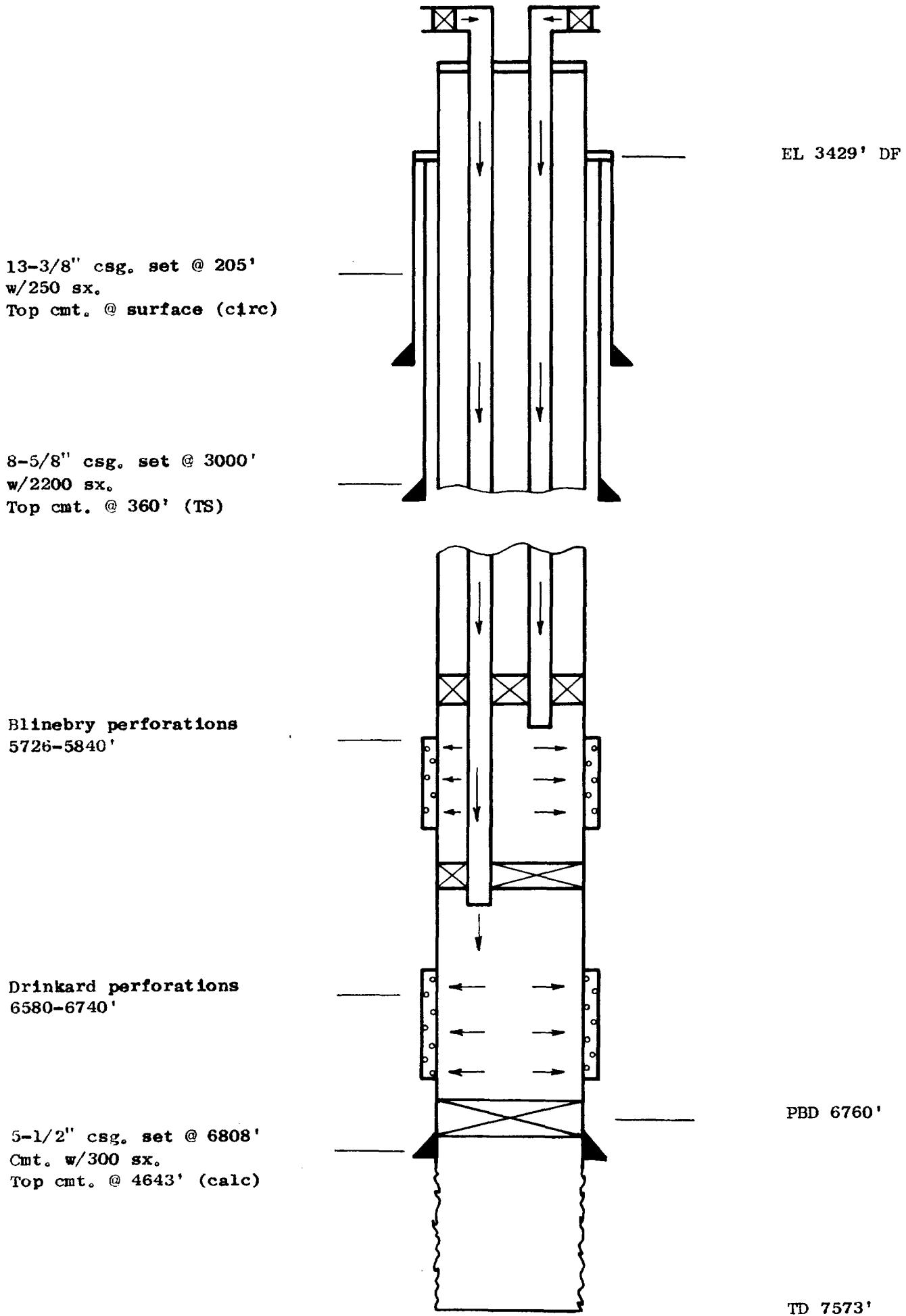
Drinkard perforations
6515-6558'
OH 6600-6643'

7" csg. set @ 6600'
w/600 sx.
Cmt. top @ 3875' (TS)



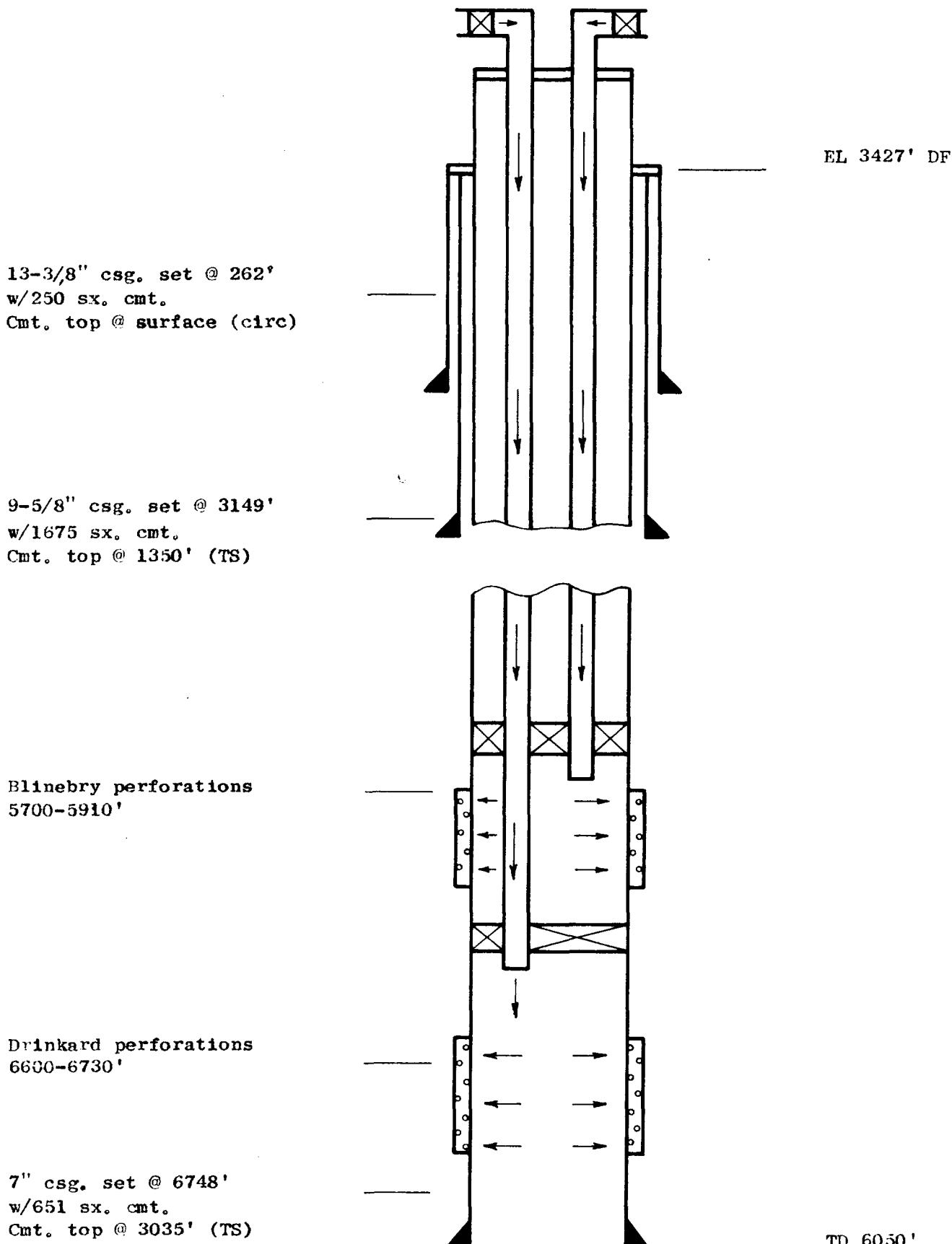
Proposed Blinebry Unit Well No. 36 UT
Proposed Drinkard Unit Well No. 36 LT

SHELL-SMITH NO. 1
UNIT G 1980' FNL & 1980' FEL
SECTION 14, T 21 S, R 37 E
LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 38 UT
Proposed Drinkard Unit Well No. 38 LT

CONOCO-LOCKHART B-13 NO. 2
 UNIT E 1980' FNL & 660' FWL
 SECTION 13, T 21 S, R 37 E
 LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 40 UT
 Proposed Drinkard Unit Well No. 40 LT

CONOCO - LOCKHART "B-13" NO. 6

UNIT G - 1980' FNL & 1980' FEL

SECTION 13 - T21S-R37E

LEA COUNTY, NEW MEXICO

10-3/4" csg. set @ 249'
Cmt. w/250 sx. cmt.
Cmt. top @ surface (circ)

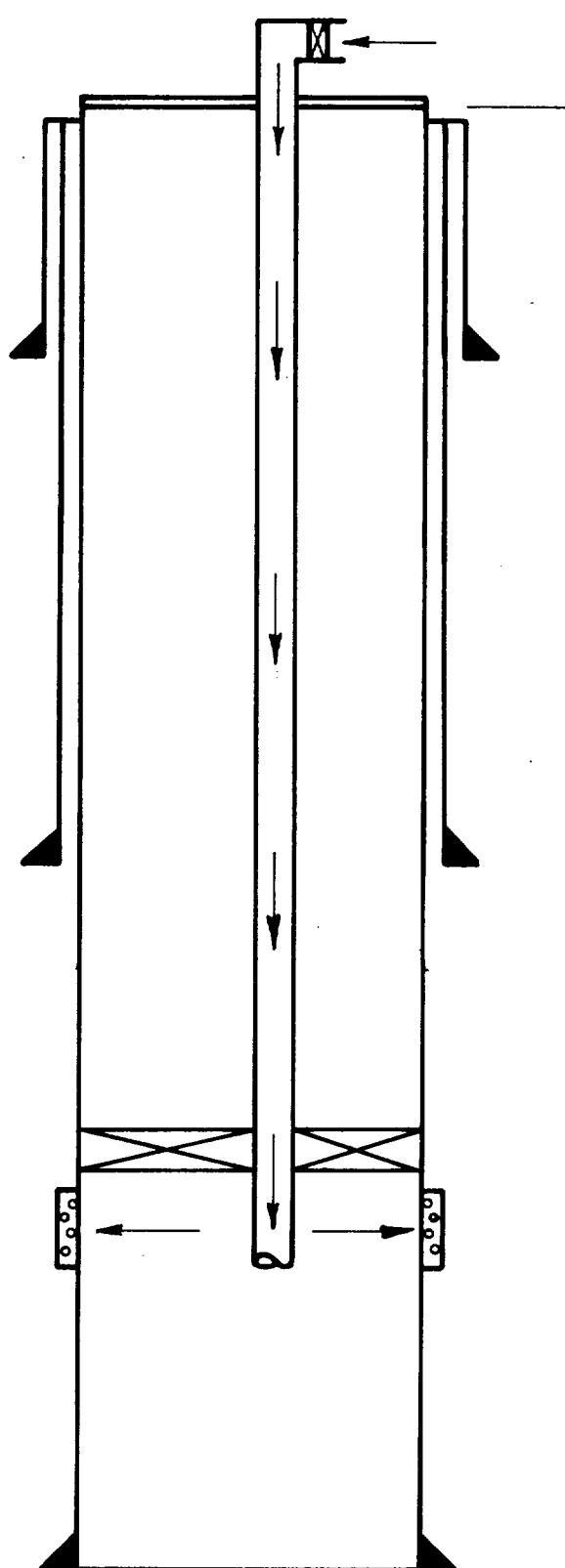
7-5/8" csg. set @ 3149'
Cmt. w/1045 sx.
Cmt. top @ 1538' (TS)

Blinebry perforations
5800-5970'

5-1/2" csg. set 6000'
Cmt. w/520 sx.
Cmt. top @ 3028' (TS)

EL 3448' DF

TD 6000'



Proposed Blinebry Unit Well No. 42

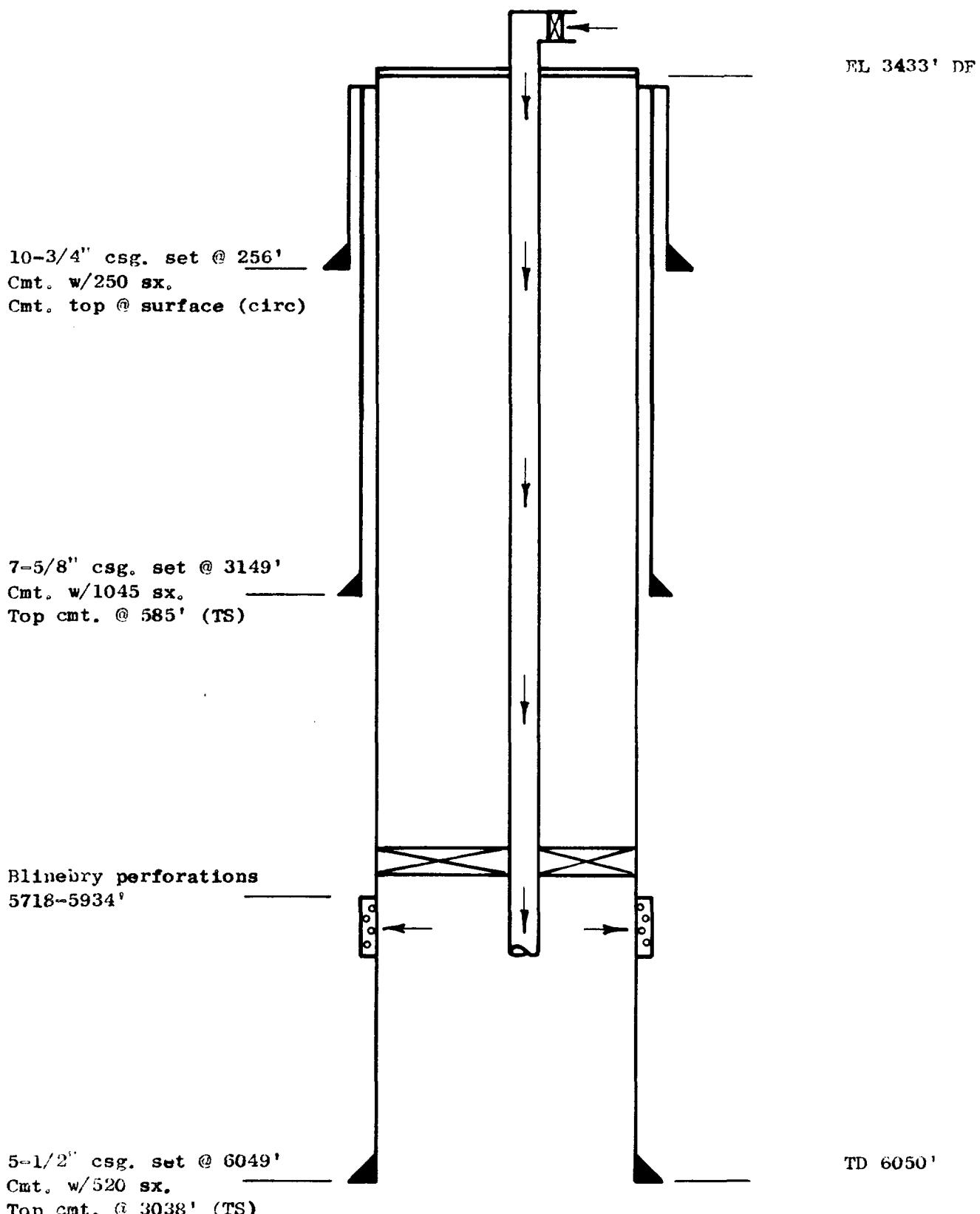
EXHIBIT NO. 63

CONOCO-LOCKHART B-13 NO.4

UNIT K 1980' FSL & 1980' FWL

SECTION 13, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

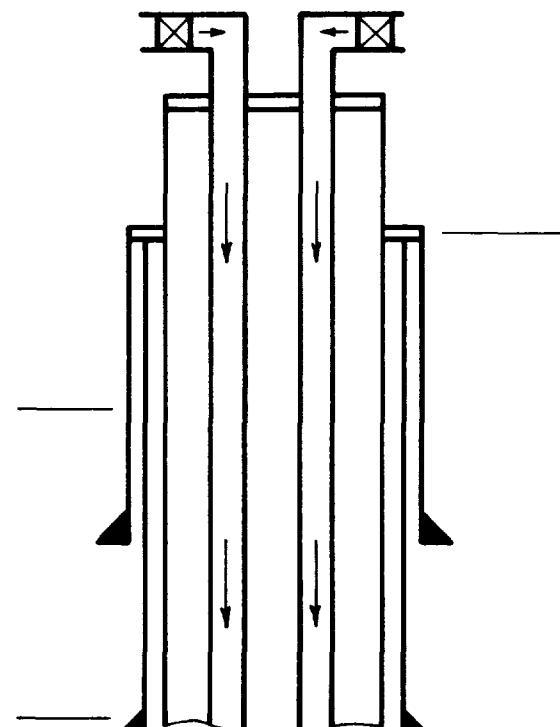


CONOCO - LOCKHART B-14 NO. 4

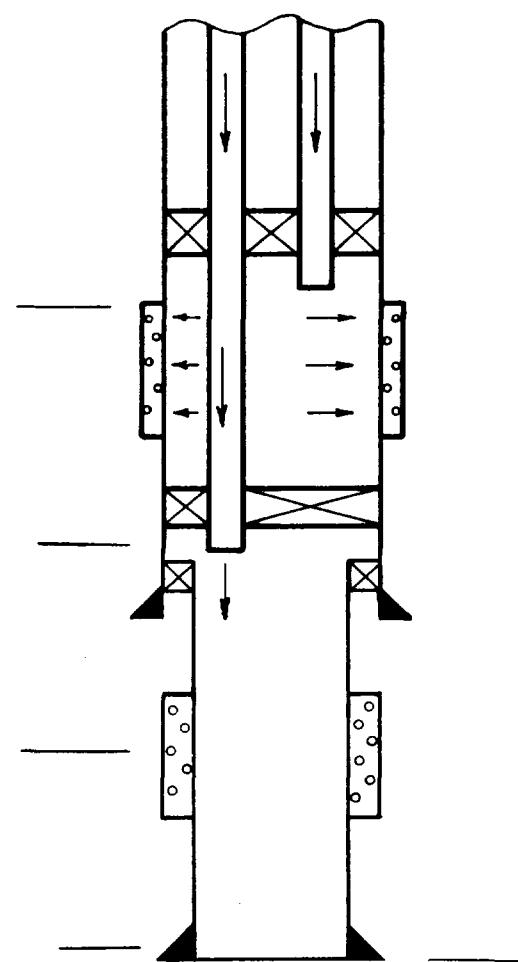
UNIT I 1980' FSL & 330' FEL

SECTION 14, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO



EL 3425' DF



TD 6800'

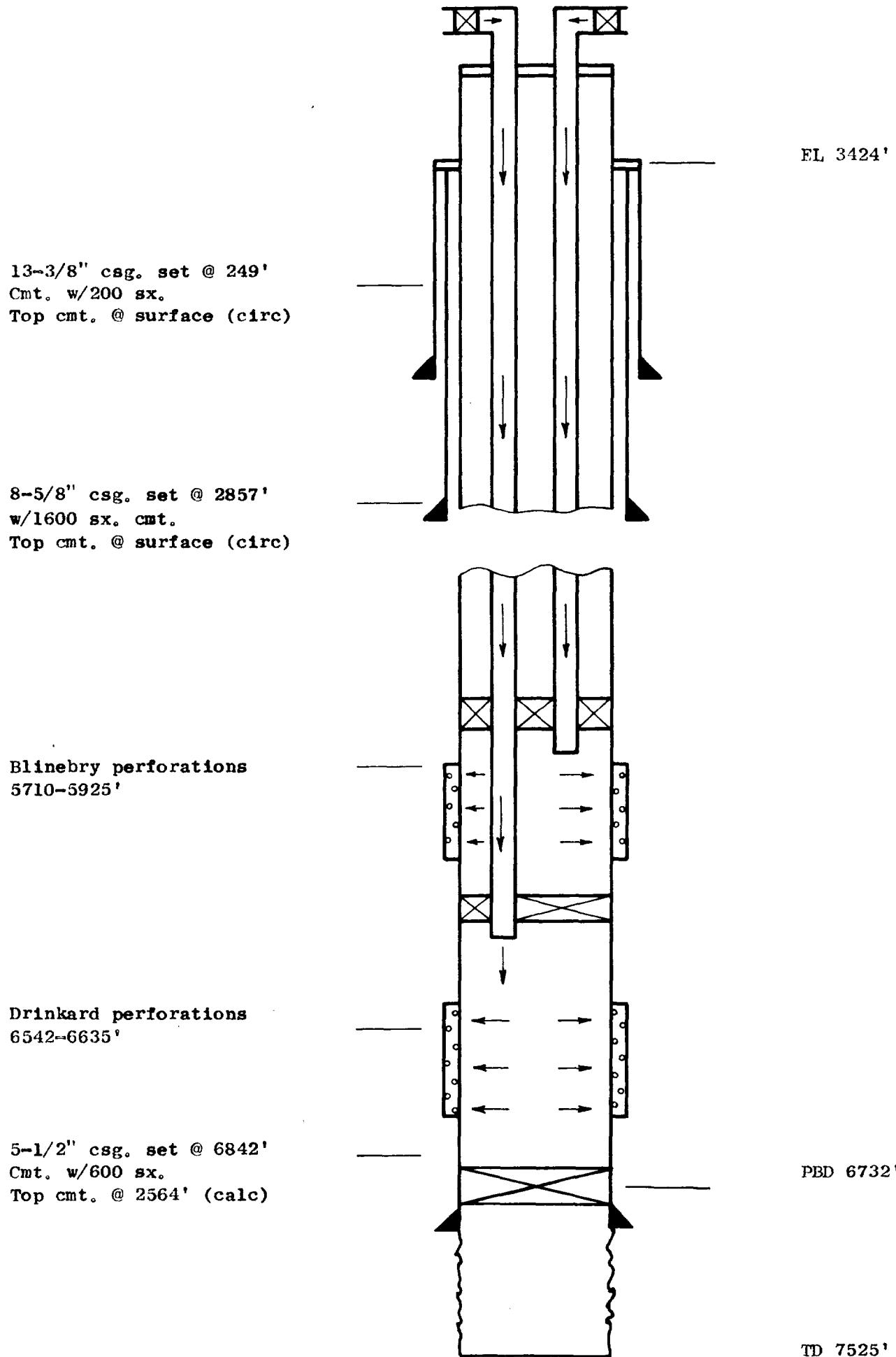
**Proposed Blinebry Unit Well No. 46 UT
Proposed Drinkard Unit Well No. 46 LT**

J. R. CONE-EUBANKS NO. 3

UNIT K 1980' FSL & 1830' FWL

SECTION 14, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 48 UT
Proposed Drinkard Unit Well No. 48 LT

J. R. CONE-EUBANKS NO. I

UNIT M 660' FSL & 660' FWL

SECTION 14, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

13-3/8" csg. set @ 262'
Cmt. w/200 sx.
Cmt. top @ surface (circ)

8-5/8" csg. set @ 2791'
Cmt. w/1200 sx.
Cmt. top @ surface (circ)

Blinebry perforations
5650-5950'

Drinkard perforations
6460-6500'
OH 6512-6639'

5-1/2" csg. set @ 6512'
Cmt. w/600 sx.
Cmt. top @ 2245' (calc)

EL 3417' DF

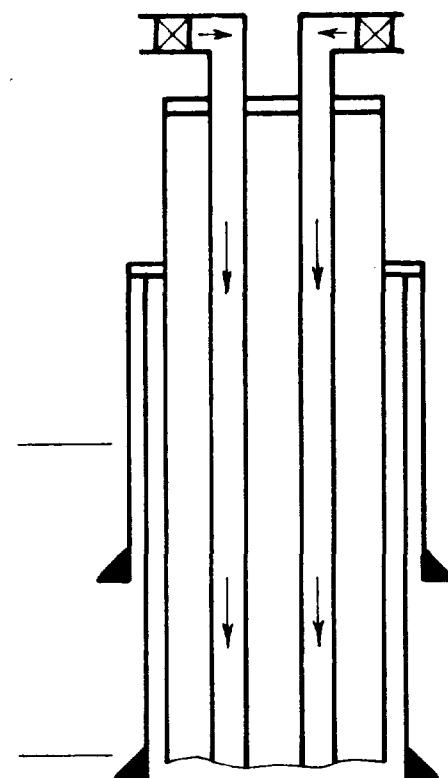
TD 6639'

Proposed Blinebry Unit Well No. 50 UT
Proposed Drinkard Unit Well No. 50 LT

GULF - KEENUM NO. 2

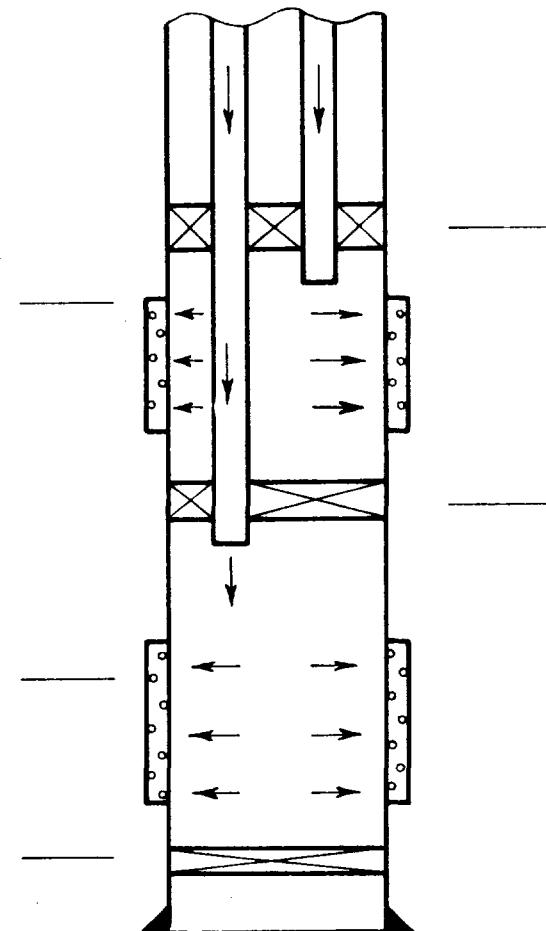
UNIT O - 1980' FEL & 660' FSL
 SECTION 14, T 21 S - R 37 E
 LEA COUNTY, NEW MEXICO

12-3/4" csg. @ 212'
 Cmt. w/240 sx.
 Top @ surface (circ)



EL 3419' DF

9-5/8" csg. @ 2986'
 Cmt. w/1350 sx.
 Cmt. top @ 538' (calc)



Blinebry perforations
 5700-5910'

Drinkard perforations
 6500-6600'
 SI

5-1/2" csg. @ 7193'
 Cmt. w/735 sx.
 Cmt. top @ 2970' (TS)

PBD 6692'
 TD 7193'

Proposed Blinebry Unit Well No. 52 UT
 Proposed Drinkard Unit Well No. 52 LT

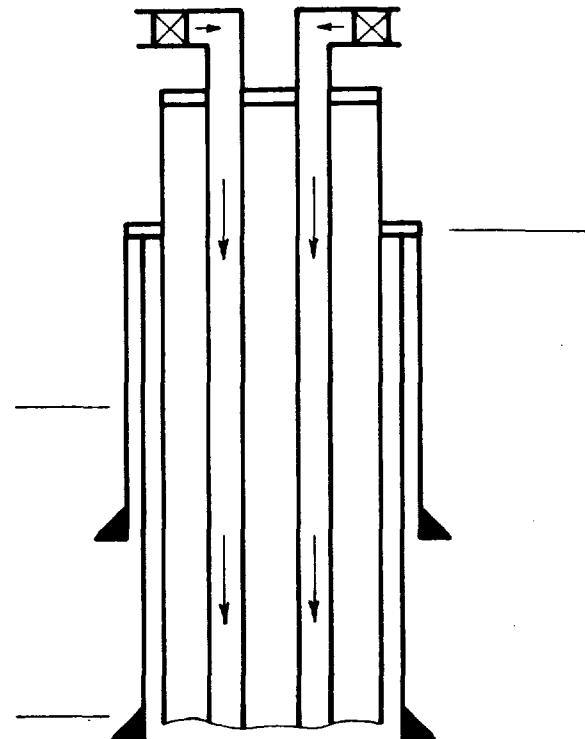
CONOCO - LOCKHART B-13 NO. 1

UNIT M 660' FSL & 660' FWL

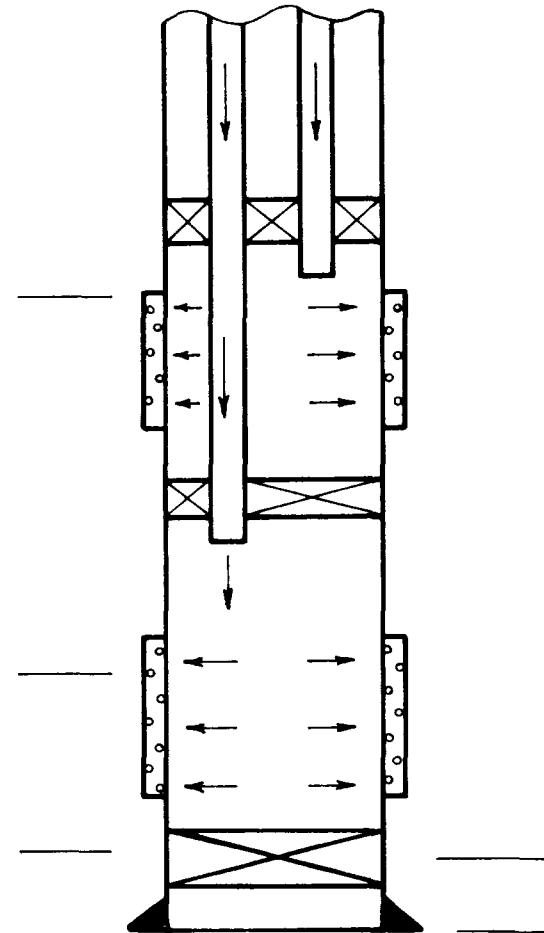
SECTION 13, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

13-3/8" csg. set @ 238'
Cmt. w/250 sx.
Top cmt. @ surface (circ)



9-5/8" csg. set @ 3150'
Cmt. w/1596 sx.
Top cmt. @ surface (circ)



Blinebry perforations
5720-5830'

Drinkard perforations
6560-6700'

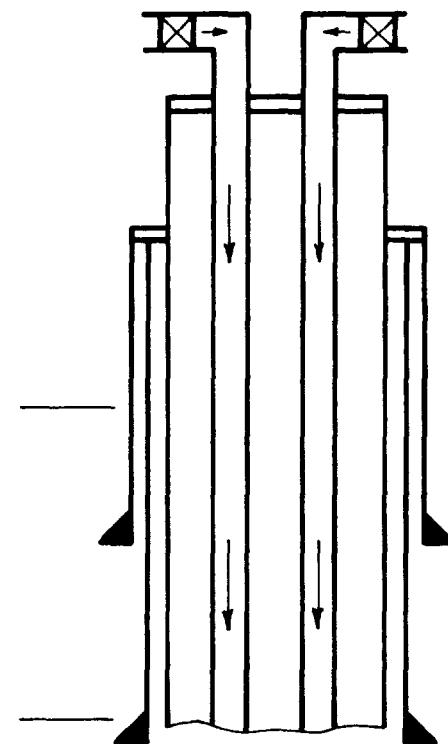
7-1/2" csg. set @ 7576'
Cmt. w/730 sx.
Top cmt. 3100' (circ)

TD 7575'

Proposed Blinebry Unit Well No. 54 UT
Proposed Drinkard Unit Well No. 54 LT

SUMMIT ENERGY-NANCY STEPHENS NO. 3
 UNIT C 660' FNL & 1980' FWL
 SECTION 24, T 21 S, R 37 E
 LEA COUNTY, NEW MEXICO

13-3/8" csg. set @ 253'
 w/225 sx.
 Top cmt. @ surface (circ)

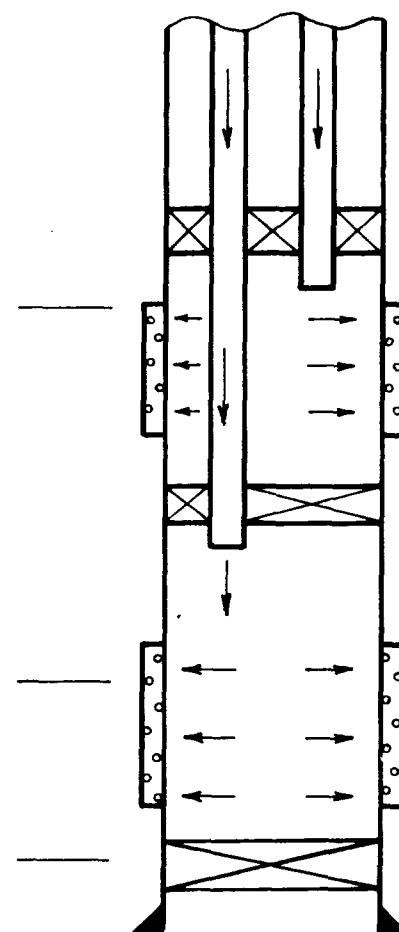


8-5/8" csg. set @ 2999'
 w/1280 sx.
 Top cmt. @ surface (calc)

Blinebry perforations
 5756-6058'

Drinkard perforations
 6700-6860'

5-1/2" csg. set @ 7200'
 Cmt. w/650 sx.
 Top cmt. @ 2560' (calc)

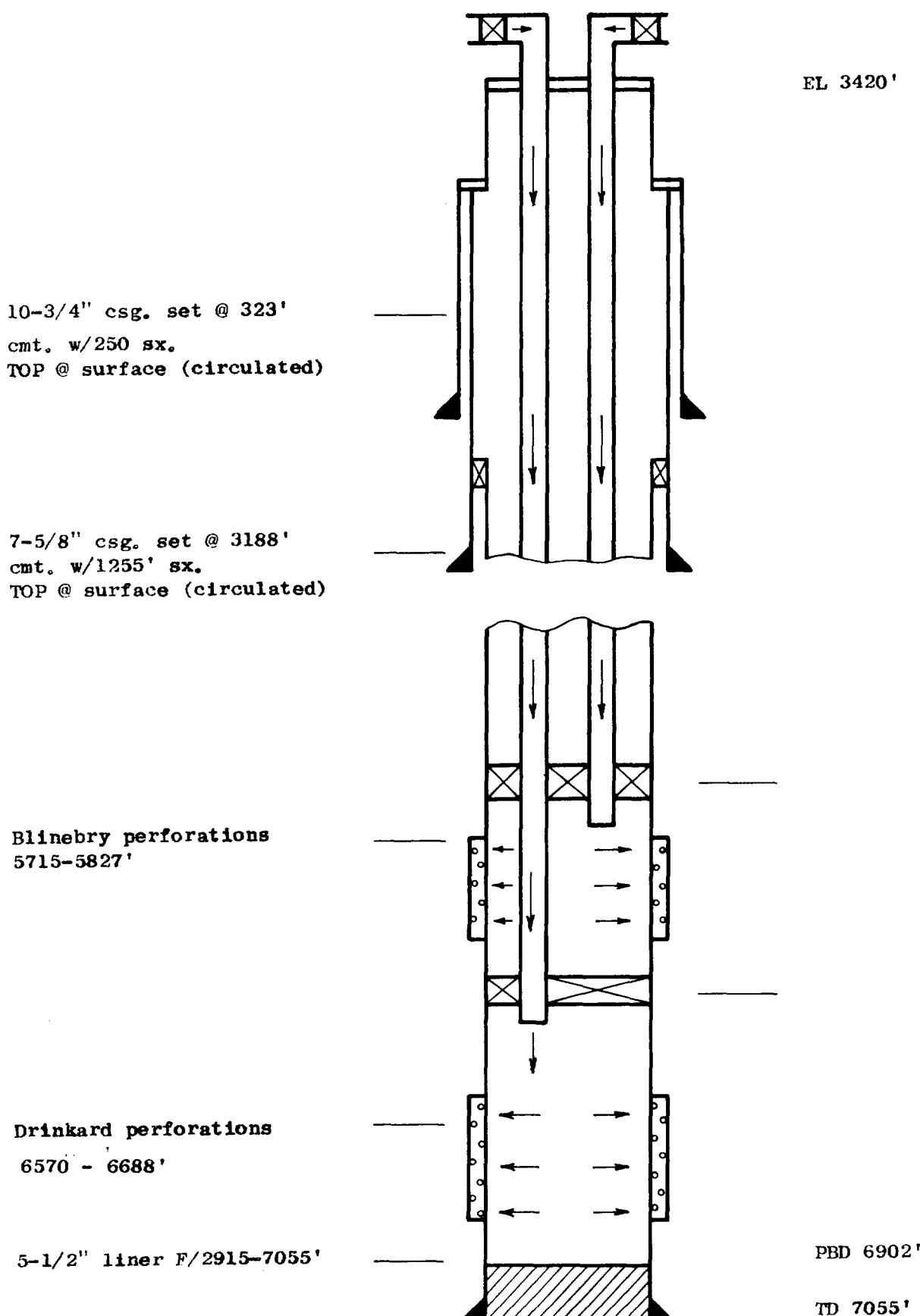


PBD 7190'

TD 7200'

Proposed Blinebry Unit Well No. 56 UT
 Proposed Drinkard Unit Well No. 56 LT

MOBIL - D. A. WILLIAMSON NO. 1
UNIT A - 660' FN & 660' FE
SECTION 23, T 21 S, R 37 E
LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 58 UT
Proposed Drinkard Unit Well No. 58 LT

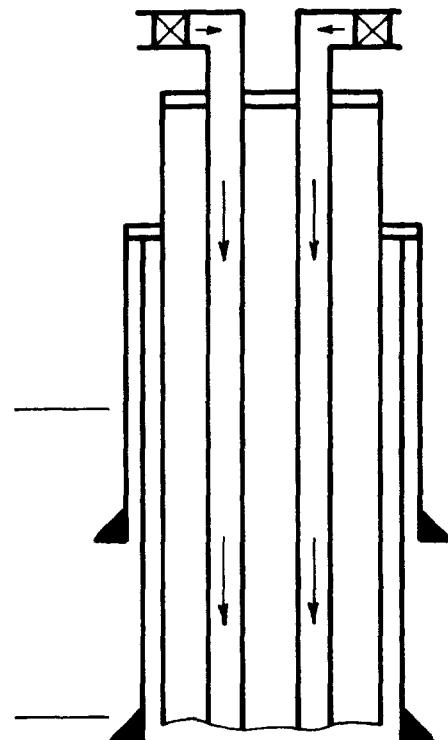
GETTY - D. A. WILLIAMSON NO. 4

UNIT C - 660' FN & 1980' FW

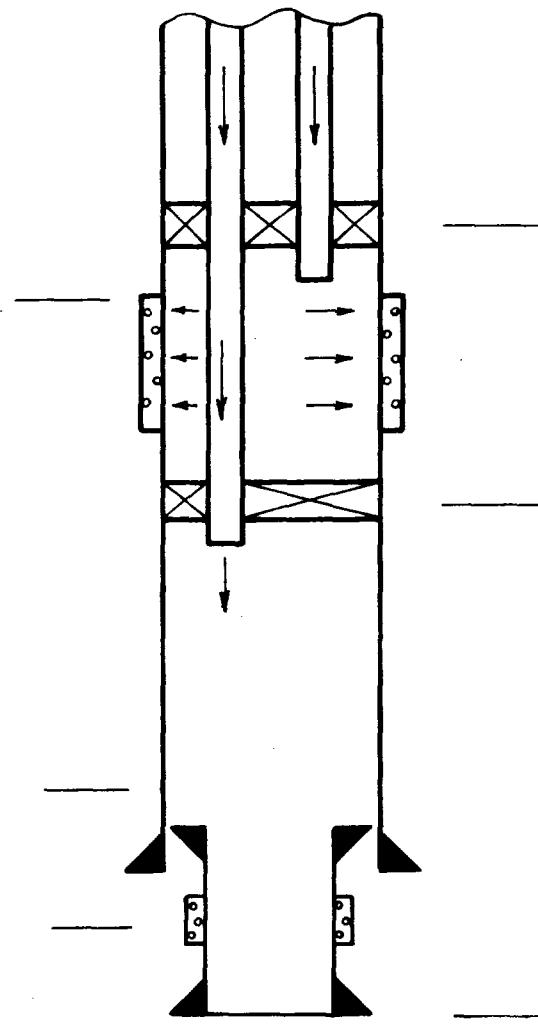
SECTION 23, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

13-5/8" csg. @ 334'
w/200 sx. cmt.
TOP @ surface (calculated)



8-5/8" csg. @ 2848'
w/500 sx. cmt.
TOP @ 1510' (TS)



5-1/2" csg. @ 6456'
cmt. w/500 sx.
TOP @ 2848' (calculated)

Blinebry perforations
5665-5867'

3-1/2" liner @ 6600'
Cmt. to top

Drinkard perforations
@ approx. 6520-60'

TD 6600'

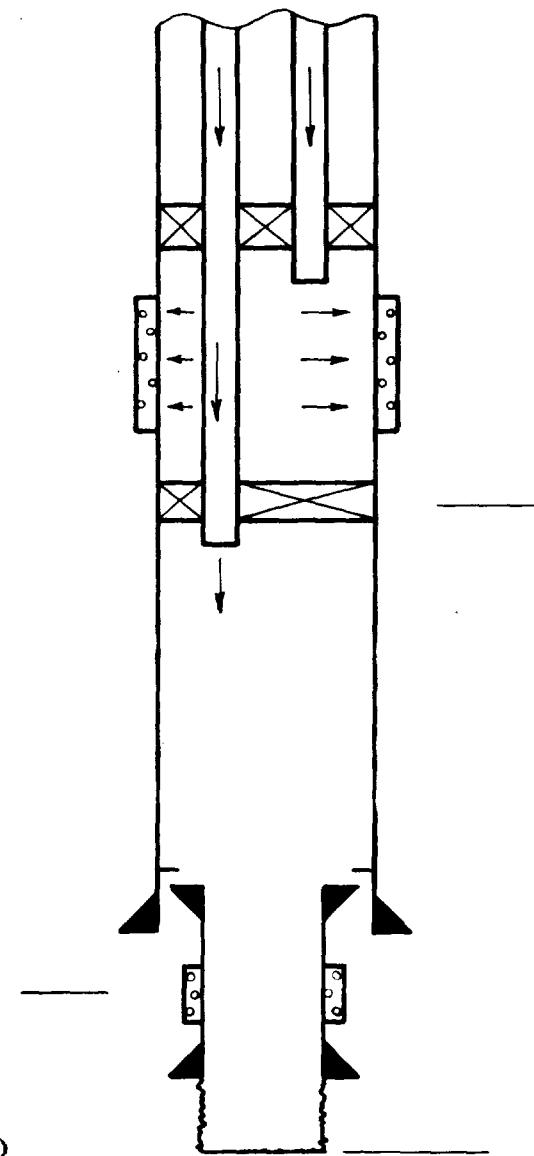
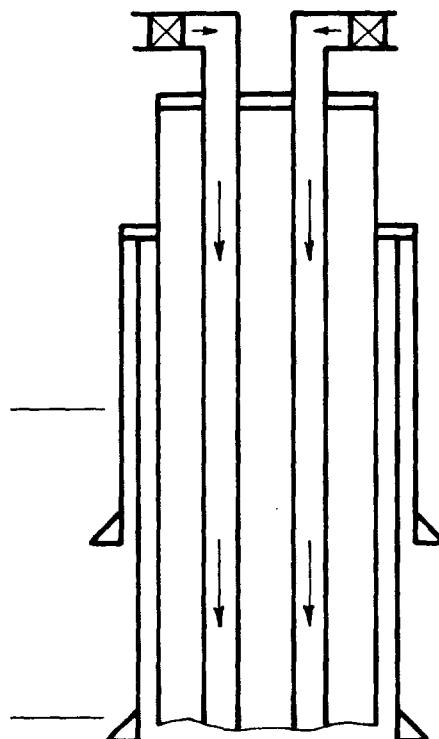
Proposed Blinebry Unit Well No. 60 UT
Proposed Drinkard Unit Well No. 60 LT

GETTY - D. A. WILLIAMSON NO. 2

UNIT E - 1980' FN & 660' FW

SECTION 23, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO



5-1/2" csg. @ 6520'
cmt. w/400 sq.
TOP @ 3635' (calculated)

Drinkard perforations
6532-94'
TD 6615'

3" liner @ 6615' (top cemented)

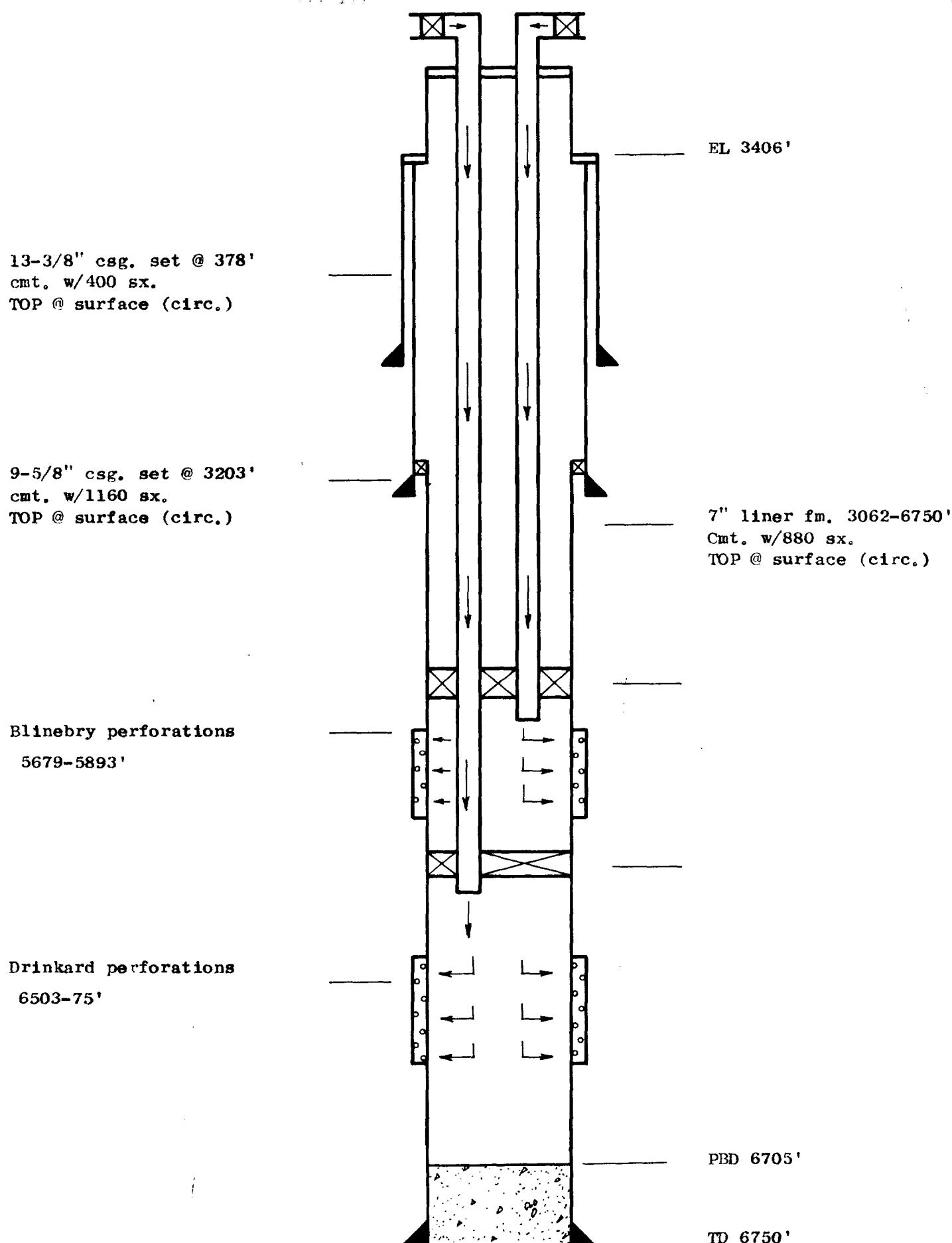
**Proposed Blinebry Unit Well No. 62 UT
Proposed Drinkard Unit Well No. 62 LT**

A.R.Co. - BARTON NO. 4

UNIT G - 1750' FN & 1980' FE

SECTION 23, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 64 UT
Proposed Drinkard Unit Well No. 64 LT

GULF - NANCY STEPHENS NO. 2

UNIT E - 1980' FNL & 660' FWL

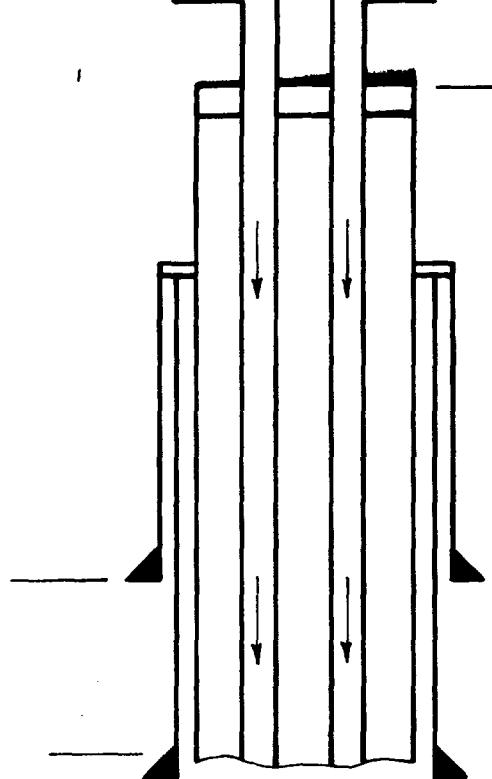
SECTION 24 - T21S-R37E

LEA COUNTY, NEW MEXICO



EL 3424' DF

13-3/8" csg. set @ 255'
w/325 sx. cmt.
Top @ surface (circ)

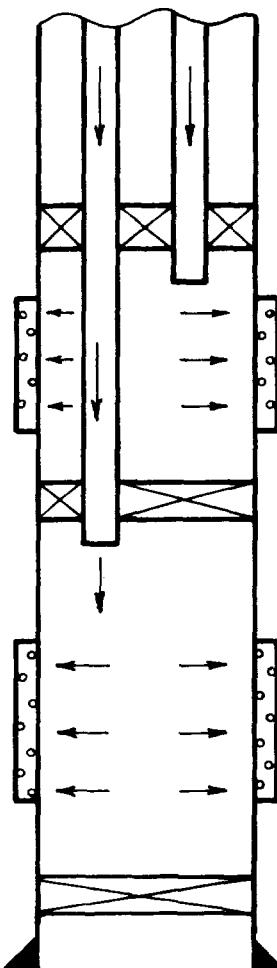


8-5/8" csg. set @ 2999'
w/1638 sx. cmt.
Top @ 246' w/temp. survey

Blinebry perforations
5765-5990'



Drinkard perforations
6550-6600'



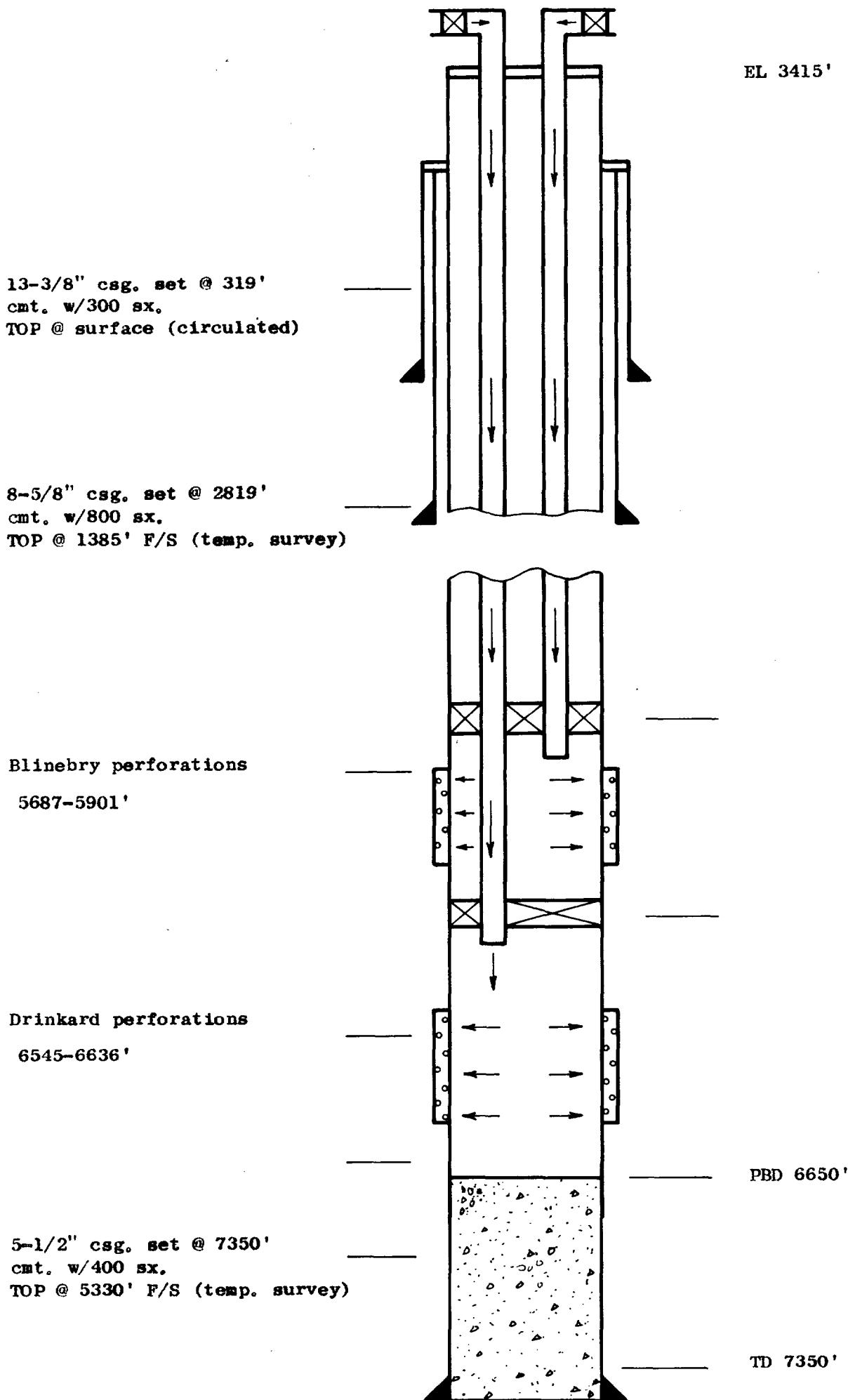
PBD 6792'

5-1/2" csg. set @ 7199'
w/1000 sx. cmt.
Top @

TD 7150'

Proposed Blinebry Unit Well No. 66 UT
Proposed Drinkard Unit Well No. 66 LT

A.R.Co. - SARKEYS NO. 3
 UNIT I - 2310' FS & 330' FE
 SECTION 23, T 21 S, R 37 E
 LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 69 UT
 Proposed Drinkard Unit Well No. 69 LT

SHELL - SARKEYS NO. 2

UNIT K - 1980' FS & 1980' FW
SECTION 23, T 21 S, R 37 E
LEA COUNTY, NEW MEXICO

13-3/8" csg. set @ 229'
cmt. w/250 sx.
TOP @ surface (circulated)

8-5/8" csg. set @ 2909'
cmt. w/1500 sx.
TOP @ surface (circulated)

Blinebry perforations
5564-5877

5-1/2" csg. set @ 6460'
cmt. w/1000 sx.
TOP @ 2500' (calculated)

3-1/2" liner @ 6610' cmt'd @ tpp

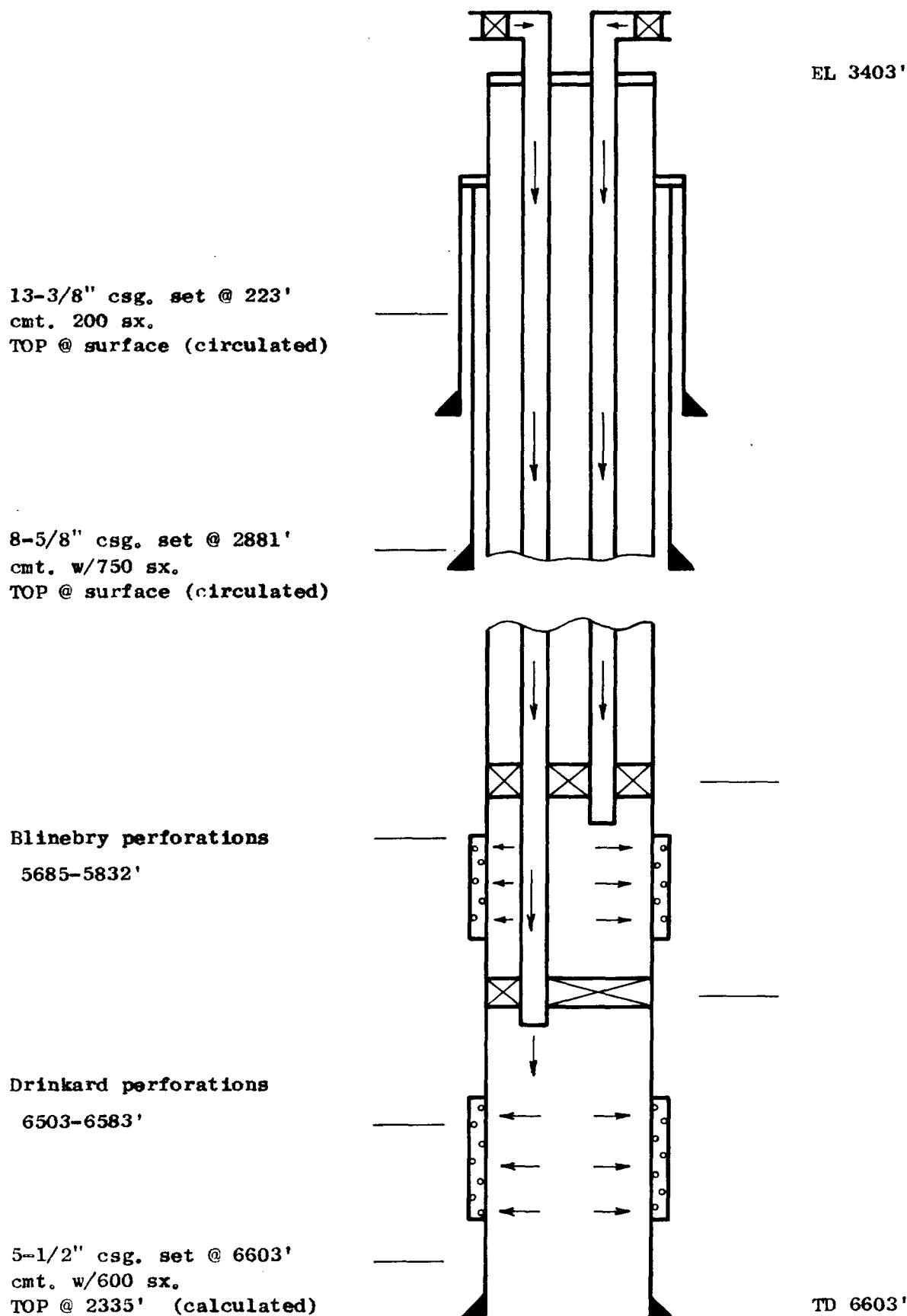
EL 3410'

Drinkard
Perfs 6475-6550'

TD 6610'

Proposed Blinebry Unit Well No. 71 UT
Proposed Drinkard Unit Well No. 71 LT

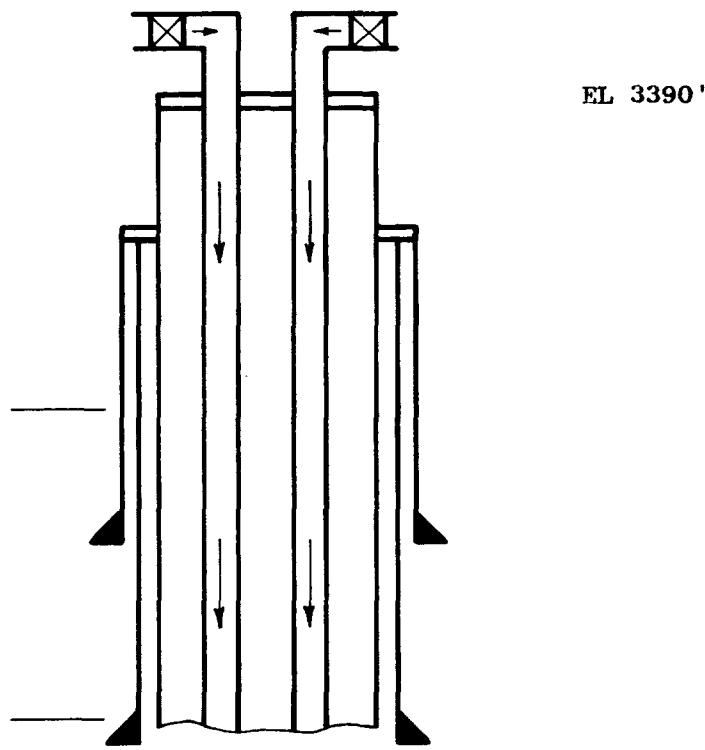
SHELL - SARKEYS NO. 1
UNIT M - 660' FS & 660' FW
SECTION 23, T 21 S, R 37 E
LEA COUNTY, NEW MEXICO



Proposed Blinebry Unit Well No. 73 UT
 Proposed Drinkard Unit Well No. 73 J.T

A.R.Co. - SARKEYS NO. 2
 UNIT 0 - 330' FS & 2310' FE
 SECTION 23, T 21 S, R 37 E
 LEA COUNTY, NEW MEXICO

10-3/4" csg. set @ 291'
 cmt. w/250 sx.
 TOP @ surface (circ.)



7-5/8" csg. set @ 2945'
 cmt/100 sx.
 TOP @ surface (circ.)

Blinebry perforations
 5698, 5704, 25, 35, 49, 55, 63,
 67, 90, 5801, 09, 21, 31, 43, 52,
 56, 64'.

Drinkard perforations
 , 6490-6580'.

5-1/2" csg. set @ 6649'
 Cmt. w/350 sx.
 TOP @ 3200' F/S (calculated)

TD 6650'

Proposed Blinebry Unit Well No. 75 UT
 Proposed Drinkard Unit Well No. 75 LT

MOBIL - STEPHENS ESTATE NO. 2

UNIT M 660' FSL & 660' FWL

SECTION 24, T 21 S, R 37 E

LEA COUNTY, NEW MEXICO

Proposed Blinebry Unit Well No. 77 UT
Proposed Drinkard Unit Well No. 77 LT

