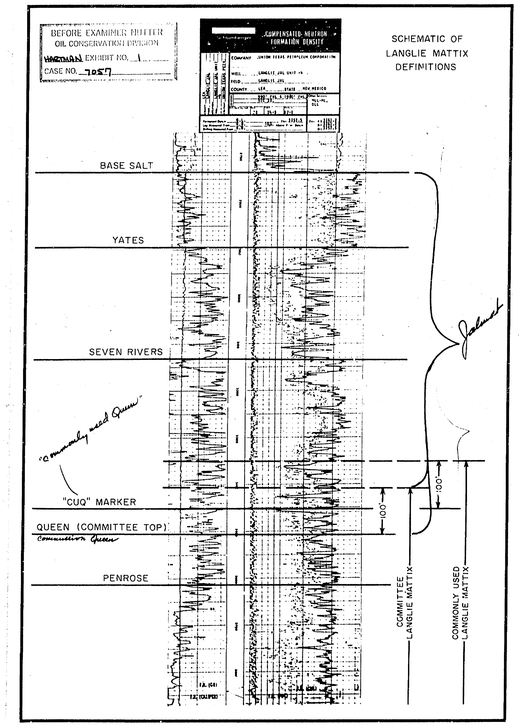
Case No

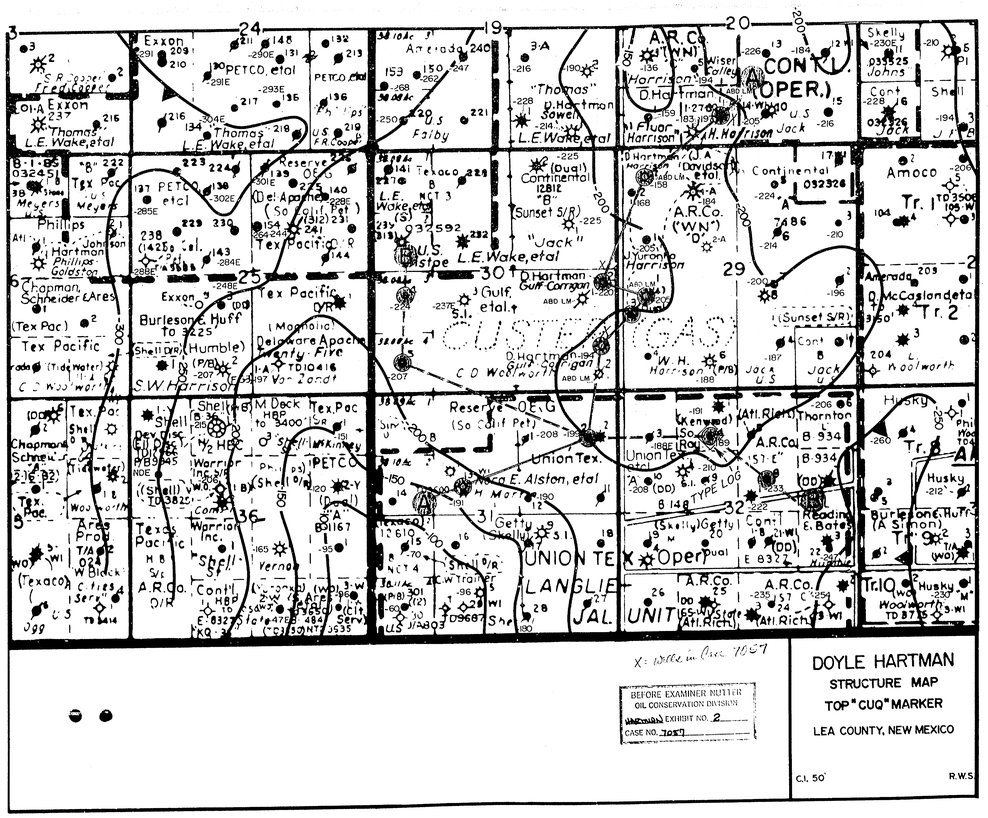
7057

Large Exhibits

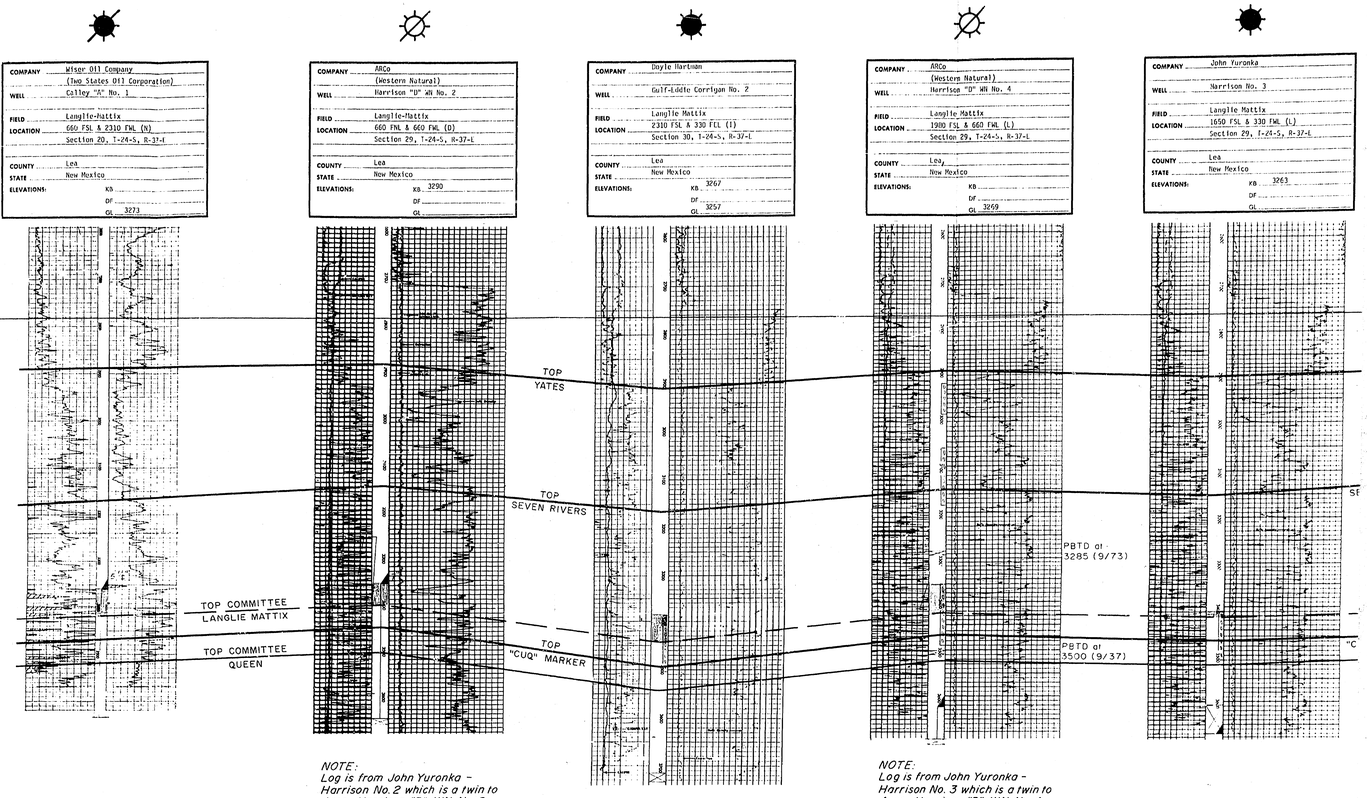
BEFORE EXAMINER UTTER
OIL CONSERVATION DIVISION
APPLICANT EXHIBIT NO. 4
CASE NO. 7057

SCHEMATIC OF
LANGLIE MATTIX
DEFINITIONS




DOYLE HARTMAN
STRUCTURE MAP
TOP "CUQ" MARKER
LEA COUNTY, NEW MEXICO
C.I. 50'
R.W.S.
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 2
CASE NO. 7057
X: Wells in Sec. 7057

A
NORTHEAST



COMPANY	Wiser Oil Company (Tap States Oil Corporation)
WELL	Calley "A" No. 1
FIELD	Langlie-Mattix
LOCATION	660 FSL & 2310 FWL (N) Section 20, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB ... DF ... GL 3273

COMPLETION RECORD

SPUD DATE	8-9-39 COMP. DATE 9-15-39
TD	3635 PBTD 3635
CASING RECORD	8 5/8 @ 387 w/195 5 1/2 @ 3360 w/250
PERFORATING RECORD	OH: 3360-3635
STIMULATION	A/2000 Shot/160 (3530-3610)
IP	IPF= 30 BOPD + 1125 MCFPD
GOR	37,500 GA
TP	CP
CHOKE	TUBING 2 3/8 @ 3620
DST RECORD	
REMARKS	Well P & A in 1978. 1-49 to 11-72 Cum= 2335.9 MMCF No Queen reported.

COMPANY	ARCo (Western Natural)
WELL	Harrison "D" WN No. 2
FIELD	Langlie-Mattix
LOCATION	660 FNL & 660 FWL (D) Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB 3290 DF ... GL ...

NOTE:
Log is from John Yuronka - Harrison No. 2 which is a twin to Arco - Harrison "D" WN No. 2.

COMPLETION RECORD

SPUD DATE	1-3-37 COMP. DATE 2-16-37
TD	3650 PBTD 3650
CASING RECORD	9 5/8 @ 2762 w/727 7 @ 3356 w/100
PERFORATING RECORD	OH: 3356-3650
STIMULATION	Natural
IP	IPF= 14,500 MCFPD
GOR	GA
TP	1420 CP
CHOKE	TUBING 2 7/8 @ 3623
DST RECORD	DST 3256-3365 SSG DST 3256-3460 5000 MCFPD DST 3258-3596 6000 MCFPD
REMARKS	1976 Recompleted to Jalmat 2-76. Last Langlie-Mattix production 5-67. Langlie-Mattix Cum= 9111.6 MMCF No Queen reported.

COMPANY	Doyle Hartman
WELL	Gulf-Liddle Corrigan No. 2
FIELD	Langlie Mattix
LOCATION	2310 FSL & 330 FEL (I) Section 30, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB 3267 DF ... GL 3257

COMPLETION RECORD

SPUD DATE	10-8-78 COMP. DATE 10-29-78
TD	3734 PBTD 3715
CASING RECORD	8 5/8 @ 461 w/350 5 1/2 @ 3732 w/775
PERFORATING RECORD	Perf: 3389-3503 w/17
STIMULATION	A/3800 SWF/60,000 + 85,000
IP	IPF= 335 MCFPD
GOR	GA
TP	130 CP 135
CHOKE	20/64 TUBING @
DST RECORD	Top of reported Queen @ 3483. Pick same as "CUQ" marker.
REMARKS	7-80 Prod: 6 BOPD 409 MCFPD

COMPANY	ARCo (Western Natural)
WELL	Harrison "D" WN No. 4
FIELD	Langlie Mattix
LOCATION	1980 FSL & 660 FWL (L) Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB ... DF ... GL 3269

NOTE:
Log is from John Yuronka - Harrison No. 3 which is a twin to Arco - Harrison "D" WN No. 4

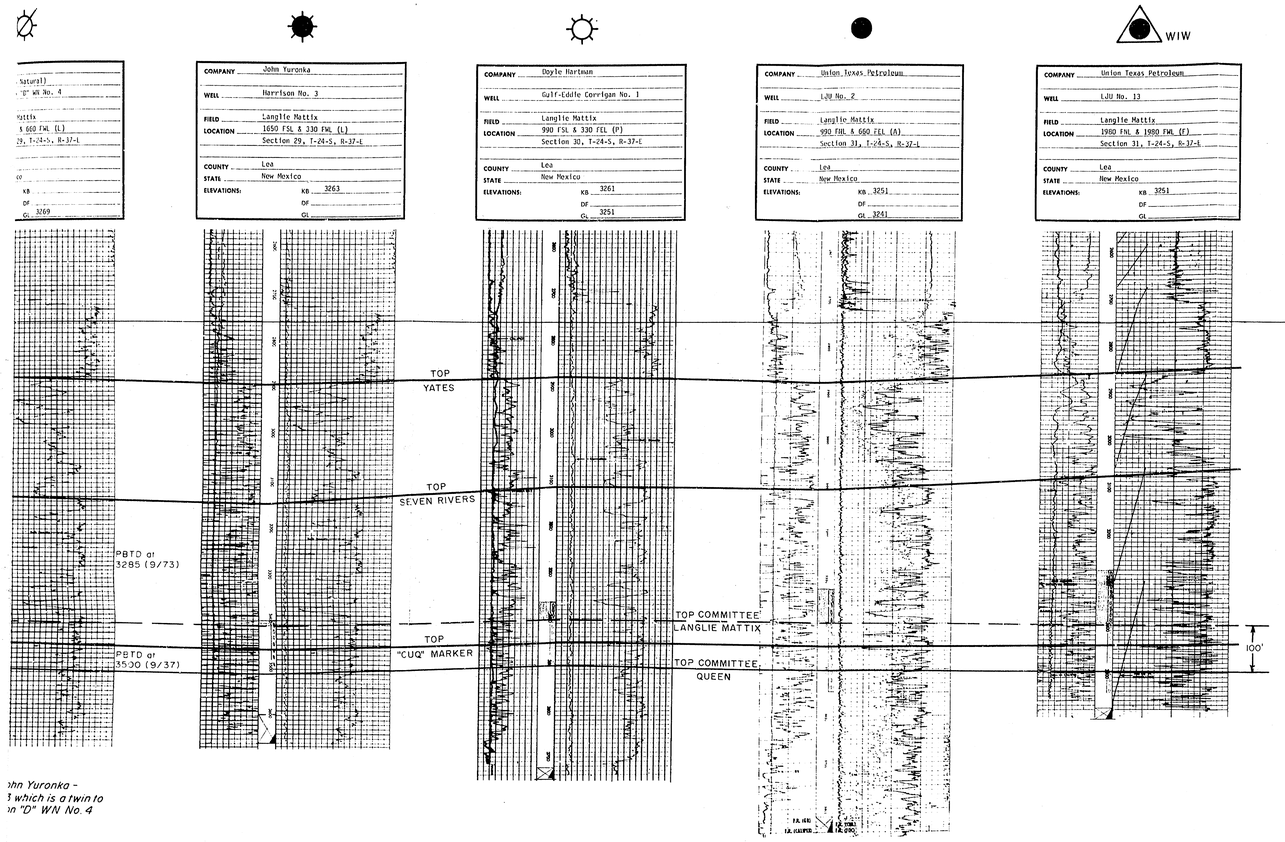
COMPLETION RECORD

SPUD DATE	6-24-37 COMP. DATE 9-? 37
TD	3699 PBTD 3500
CASING RECORD	9 5/8 @ 2770 w/750 7 @ 3624 w/100
PERFORATING RECORD	Perf: 3360-3490
STIMULATION	
IP	IPF= 6000 MCFPD
GOR	GA
TP	CP
CHOKE	TUBING @
DST RECORD	DST 3360-3415 F/1500 MCFPD.
REMARKS	4-1-65 Perf: 2927-2985. A/1500. SF/10,000 + 10,000. F/1650 MCFPD. Returned to production as a Jalmat Langlie-Mattix dual. 9-6-72 PBTD @ 3285. Perf: 3061-3185. SF/15,000 + 15,000. Now producing from Jalmat 2927-3165. Langlie-Mattix Cum= 6700.2 MMCF No Queen reported.

COMPANY	John Yuronka
WELL	Harrison No. 3
FIELD	Langlie Mattix
LOCATION	1650 FSL & 330 FWL (L) Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB 3263 DF ... GL ...

COMPLETION RECORD

SPUD DATE	8-23-79 COMP. DATE 9-19-79
TD	3670 PBTD 3609
CASING RECORD	8 5/8 @ 420 w/350 4 1/2 @ 3670 w/700
PERFORATING RECORD	Perf: 3410-3510 w/8
STIMULATION	A/4200 SWF/20,000 + 43,000
IP	IPF= 362 MCFPD + 15 BOPD
GOR	GA 33
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3509. Top of Committee Queen @ 3522.
REMARKS	6-80 Prod: 34 BOPD 309 MCFPD



	COMPANY John Yuronka	COMPANY Doyle Hartman	COMPANY Union Texas Petroleum	COMPANY Union Texas Petroleum
	WELL Harrison No. 3	WELL Gulf-Eddie Corrigan No. 1	WELL LJU No. 2	WELL LJU No. 13
	FIELD Langlie Mattix	FIELD Langlie Mattix	FIELD Langlie Mattix	FIELD Langlie Mattix
	LOCATION 1650 FSL & 330 FWL (L) Section 29, T-24-S, R-37-E	LOCATION 990 FSL & 330 FEL (P) Section 30, T-24-S, R-37-E	LOCATION 990 FNL & 660 FEL (A) Section 31, T-24-S, R-37-E	LOCATION 1980 FNL & 1980 FWL (F) Section 31, T-24-S, R-37-E
	COUNTY Lea	COUNTY Lea	COUNTY Lea	COUNTY Lea
	STATE New Mexico	STATE New Mexico	STATE New Mexico	STATE New Mexico
	ELEVATIONS: KB 3263 DF GL	ELEVATIONS: KB 3261 DF GL 3251	ELEVATIONS: KB 3251 DF GL 3241	ELEVATIONS: KB 3251 DF GL
	COMPLETION RECORD	COMPLETION RECORD	COMPLETION RECORD	COMPLETION RECORD
	SPUD DATE 8-23-79 COMP. DATE 9-19-79	SPUD DATE 9-29-78 COMP. DATE 10-27-78	SPUD DATE 9-6-74 COMP. DATE 10-7-74	SPUD DATE 9-13-71 COMP. DATE 4-6-72
	TD 3670 PBTD 3609	TD 3750 PBTD 3723	TD 3850 PBTD 3818	TD 3600 PBTD 3576
	CASING RECORD 8 5/8 @ 420 w/350 4 1/2 @ 3670 w/700	CASING RECORD 8 5/8 @ 611 w/350 5 1/2 @ 3748 w/700	CASING RECORD 8 5/8 @ 802 w/250 4 1/2 @ 3850 w/1300	CASING RECORD 8 5/8 @ 802 w/475 4 1/2 @ 3600 w/1222
	PERFORATING RECORD Perf: 3410-3510 w/8	PERFORATING RECORD Perf: 3364-3502 w/17	PERFORATING RECORD Perf: 3324-3348 w/40	PERFORATING RECORD Perf: 3280-3543 w/46
	STIMULATION A/4250 SWF/20,000 + 43,000	STIMULATION A/4800 SWF/60,000 + 80,000	STIMULATION A/1897 SWF/30,000 + 39,000	STIMULATION A/500
	IP IPF= 362 MCFPD + 15 BOPD	IP IPF= 254 MCFPD + 15 BWPD	IP IPF= 53 BOPD + 40 BWPD	IP Well completed as Langlie Mattix water injector.
	GOR GA 33	GOR GA	GOR GA	GOR GA
	TD CP	TD 160 CP 160	TD CP	TD CP
	CHOKE TUBING @	CHOKE 16/64 TUBING @	CHOKE TUBING @	CHOKE TUBING @
	DST RECORD	DST RECORD	DST RECORD	DST RECORD
	Top of reported Queen @ 3509. Top of Committee Queen @ 3522.	Top of reported Queen @ 3463. Pick same as "CUQ" marker.	Top of reported Queen pick @ 3451. Pick same as "CUQ" marker.	Top of reported Queen @ 3255.
	REMARKS 6-80 Prod: 34 BOPD 305 MCFPD	REMARKS 7-80 Prod: 2 BOPD 408 MCFPD	REMARKS	REMARKS

...ohn Yuronka -
...3 which is a twin to
...n "D" WN No. 4

...TION RECORD
COMP. DATE 9-2-37
PBTD 3500
...2770 w/250
...3624 w/100
...360-3490
...D MCFPD
...SI
...SP
...@
...-3515. F/3500 MCFPD.
...Perf: 2927-2994. A/3500,
...+ 10,000. F/1650 MCFPD.
...to production as a Jalmat
...Mattix Gas).
...PBTD @ 3285. Perf: 3061-
...F/35,000 + 35,000. Now
...s from Jalmat 2927-3115.
...Mattix Cum 6700.2 MMCF
...reported.

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
HARTMAN EXHIBIT NO. 3
CASE NO. 7057

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION A-A'
(NORTHEAST-SOUTHWEST)

SECTIONS 20, 29, 30 & 31, T-24-S, R-37-E

SHOWING
LANGLIE MATTIX INTERVALS

VERT. SCALE 1" = 100'
HORIZ SCALE NONE

D HARTMAN
R STAMP

U.S.G.S. PHOTOGRAPHIC
BEST AVAILABLE COPY

B
NORTHWEST

B'
SOUTHEAST

COMPANY	Gulf Oil Corporation
WELL	C. D. Woolworth No. 4
FIELD	Langlie Mattix
LOCATION	2080 FSL & 760 FWL (L) Section 30, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3276
DF	
GL	3265

COMPANY	Gulf Oil Corporation
WELL	Woolworth No. 5
FIELD	Langlie Mattix
LOCATION	660 FSL & FWL (M) Section 30, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3271
DF	
GL	3262

COMPANY	Union Texas Petroleum
WELL	LJU No. 2
FIELD	Langlie Mattix
LOCATION	990 FNL & 660 FEL (A) Section 31, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3251
DF	
GL	3241

COMPANY	Union Texas Petroleum
WELL	LJU No. 4
FIELD	Langlie Mattix
LOCATION	990 FNL & 1980 FWL (C) Section 32, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3263
DF	
GL	3253

COMPANY	Union Texas Petroleum
WELL	LJU No. 8
FIELD	Langlie Mattix
LOCATION	1930 FNL & 1980 FEL (G) Section 32, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3261
DF	
GL	3251

+500'

+500'

TOP YATES

TOP SEVEN RIVERS

TOP COMMITTEE LANGLIE MATTIX

TOP "CUQ" MARKER

TOP COMMITTEE QUEEN

100'

T.D. 3700

T.D. 3750

T.D. 3850

T.D. 3850

T.D. 3850

COMPLETION RECORD

SPUD DATE	3-22-77
COMP. DATE	5-14-77
TD	3700
PBTD	3680
CASING RECORD	8 5/8 @ 362 w/ 300 4 1/2 @ 3700 w/1100
PERFORATING RECORD	Perf: 3414-3662 w/16
STIMULATION	A/3600 SWF/35,000 + 52,500
IP	IPF= 48 BO + 81 BWPD
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3500. Pick same as "CUQ" marker.
REMARKS	

COMPLETION RECORD

SPUD DATE	2-27-78
COMP. DATE	4-13-78
TD	3750
PBTD	
CASING RECORD	9 5/8 @ 371 w/250 4 1/2 @ 3750 w/800
PERFORATING RECORD	Perf: 3406-3692 w/28
STIMULATION	A/6400 SWF/18,000 + 30,000
IP	IPF= 25 BO + 26 BWPD
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3487. Pick same as "CUQ" marker.
REMARKS	

COMPLETION RECORD

SPUD DATE	9-6-74
COMP. DATE	10-7-74
TD	3850
PBTD	3818
CASING RECORD	8 5/8 @ 802 w/250 4 1/2 @ 3850 w/130U
PERFORATING RECORD	Perf: 3324-3548 w/40
STIMULATION	A/1897 SWF/30,000 + 39,000
IP	IPF= 53 BOPD + 40 BWPD
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3451. Pick same as "CUQ" marker.
REMARKS	

COMPLETION RECORD

SPUD DATE	8-31-74
COMP. DATE	10-5-74
TD	3850
PBTD	3817
CASING RECORD	8 5/8 @ 802 w/500 5 1/2 @ 3850 w/1500
PERFORATING RECORD	Perf: 3361-3550 w/25
STIMULATION	A/1050 SWF/20,000 + 30,000
IP	IPF= 30 BOPD + 65 BWPD
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3452. Pick same as "CUQ" marker.
REMARKS	

COMPLETION RECORD

SPUD DATE	8-24-74
COMP. DATE	10-1-74
TD	3850
PBTD	3817
CASING RECORD	8 5/8 @ 820 w/500 4 1/2 @ 3850 w/1500
PERFORATING RECORD	Perf: 3361-3568 w/50
STIMULATION	A/1500 SF/30,000 + 39,000
IP	IP= 82 BOPD + 11 BWPD
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3496. Pick same as "CUQ" marker.
REMARKS	

BEFORE EXAMINER ... OIL CONSERVATION ...
EXHIBIT NO. 4
CASE NO. 7057

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION B-B'
(NORTHWEST-SOUTHEAST)

SECTIONS 30, 31 & 32, T-24-S, R-37-E

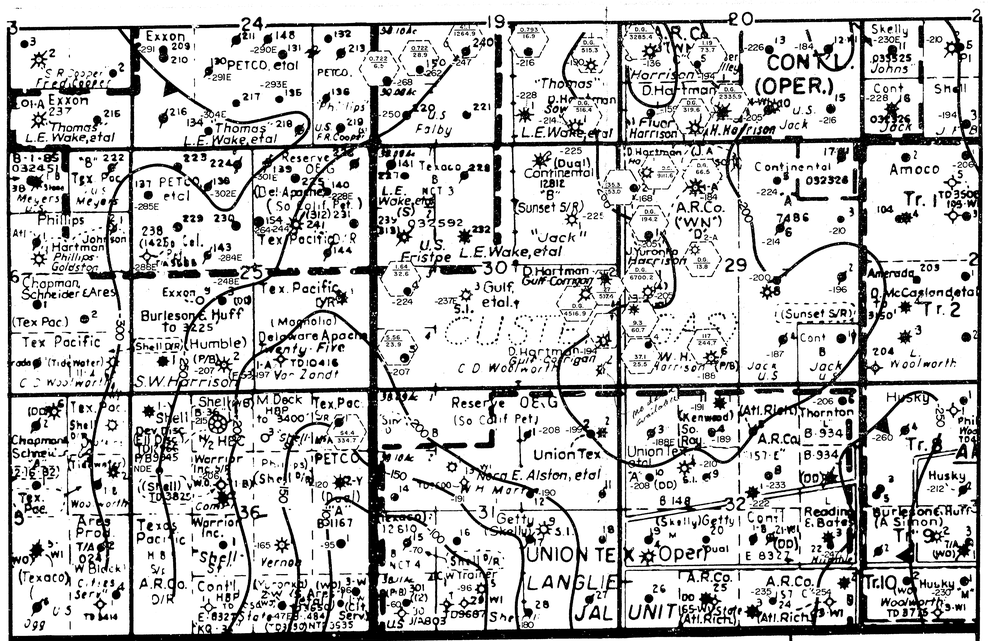
SHOWING

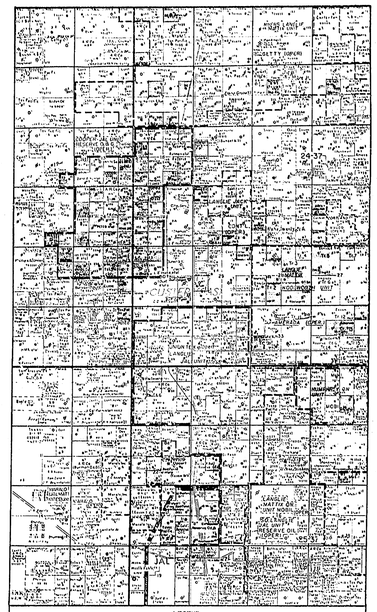
LANGLIE MATTIX INTERVALS

VERT. SCALE: 1" = 100'
HORIZ SCALE: NONE

D HARTMAN
R STUMP

U.S.G.S. RECORDS
BEST AVAILABLE COPY


DOYLE HARTMAN
(STRUCTURE MAP
TOP "CUQ" MARKER)
LEA COUNTY, NEW MEXICO
CUMULATIVE
GAS/OIL RATIO
MCF/Bbl.
C.I. 50
R.W.S.
LEGEND
Average GOR for Longlie Mattix Production, MCF/Bbl.
Cumulative Longlie Mattix Gas Production, MMCF
D.G. – Dry Gas
Complete Gas History not available for oil wells.
BEFORE EXAMINER UTTER
OIL CONSERVATION DIVISION
HARTMAN EXHIBIT NO. 6
CASE NO. 7057
CUSTER
UNION TEX
LANGLIE-JAL
UNIT
CONT'L (OPER.)
Exxon
PETCO, etal
Thomas
L.E. Wake, etal
Texaco
U.S.
Fairby
Continental
"Jack"
Sunset S/R
A.R.Co.
("WN")
Amoco
Tr. 1
Tr. 2
Amerada
O. McCasland etal
Woolworth
Husky
Tr. 8
Tr. 9
Tr. 10
Burleson & Huff
(A. Simon)
Shell
Texas Pacific
Warrior Inc.
Vernon
Union Tex
Getty
Reading & Bates
Tex Pac
Tex Pacific
Chapman Schneider & Ares
Phillips
Johnson
Hartman
Phillips
Galveston
Skelly
Johns
Cont
Jack
Thornton
Atl. Richfield
Kenwood
So. Roy
Harrison
Fluor
Yuronto
Gulf
Corrigan
Woolworth
Ogg
Meyers
Tex Pac
Tidewater
Shell
Humble
Mobil
Delaware Apache
Tenneco
Ares Prod.
Cities Service
Cont'l
Reserve O.E.G.
(So. Calif. Pet.)
Noca E. Alston, etal
Getty
Skelly
Oper
Dual
Jalmat
Langlie Mattix
Seven Rivers
Queen
Grayburg
San Andres
Penrose
Skelly
Grayburg
Unit
Tr. 10
Husky
Woolworth
Amoco
Tr. 1
Tr. 2
Amerada
McCasland
Tr. 8
Tr. 9
Tr. 10
Husky
Woolworth
Burleson & Huff
(A. Simon)
Tr. 9
Tr. 10
Husky
Woolworth
Tr. 10
Husky
Woolworth



LEGEND

LANGLIE MATTIX POOL

- EXEMPT UNDER R-520, 1954
- EXEMPT UNDER R-4051, 1970
- EXEMPT UNDER R-5972
- EXEMPT UNDER R-5590, 1977
- WATER INJECTOR R-4019, 1970
- ABD. LANGLIE-MATTIX PRORATION UNITS UNDER R-520 EXEMPTION

JALMAT POOL

- EXEMPT UNDER R-5590, 1977
- EXEMPT UNDER R-520, 1954
- WATER INJECTOR R-4020, 1970

BALANCE OF WATERFLOOD UNIT AREAS

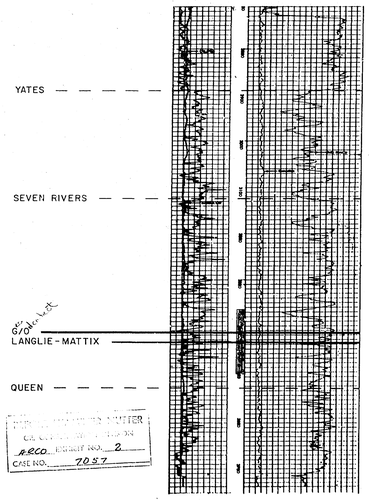
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 7
CASE NO. 7057

EXCEPTION MAP

Field LANGLIE MATTIX & JALMAT		County LEA	State N. MEX.
Engineer W.P.A.	Drwn. By mk	Date	File GOYLE HARTMAN
RADTKE, AYCOCK & ASSOC., INC.			Ref No. EXHIBIT
310 WALL TOWERS WEST	MIDLAND, TEXAS		

EXHIBIT 2

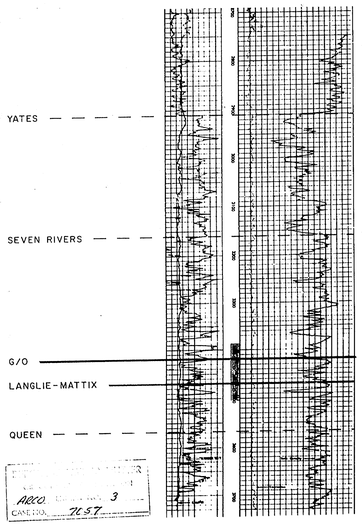
DOYLE HARTMAN
GULF - EDDY CORRIGAN NO. 1
990' FSL & 330' FEL
SEC 30, T 24 S, R 37 E
LEA COUNTY, NEW MEXICO
EL K B 3261'



OIL CONSERVATION COMMISSION
EXAMINER
RECO. EXHIBIT NO. 2
CASE NO. 7057

EXHIBIT 3

DOYLE HARTMAN
GULF – EDDY CORRIGAN NO. 2
2310' FSL & 330' FEL
SEC 30, T 24 S, R 37 E
LEA COUNTY, NEW MEXICO
EL. K.B. 3266'



Amoco 3
CASE NO. 7657

N.M.O.C.D. RECORDS
BEST AVAILABLE COPY

EXHIBIT 4

DOYLE HARTMAN
HENRY HARRISON NO. 1
1650' FWL & 330' FSL
SEC 20, T 24 S, R 37 E
LEA COUNTY, NEW MEXICO
EL K B 3292

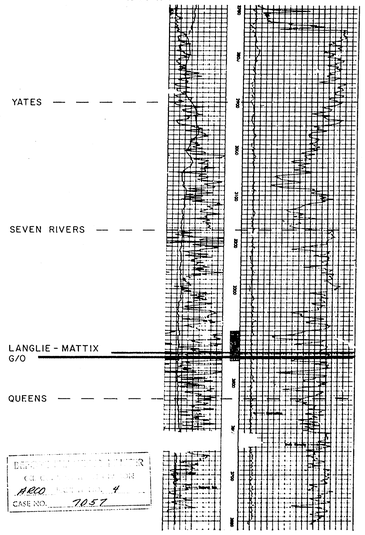
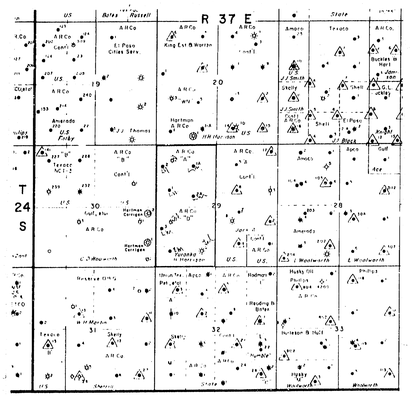


EXHIBIT 4
CASE NO. 7057



OIL CONSERVATION DIVISION
EXHIBIT NO. 1
CASE NO. 7057

ARCO Oil and Gas Company
Permian District Midland, Texas

HARRISON LEASE
LEA COUNTY, NEW MEXICO

EXHIBIT I

SCALE: 1" = 2000'

V.R.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

EXHIBIT 5

COMPARISON OF GAS ALLOWABLES
FOR LANGLIE MATTIX AND JALMAT POOLS ON
EQUIVALENT TRACTS

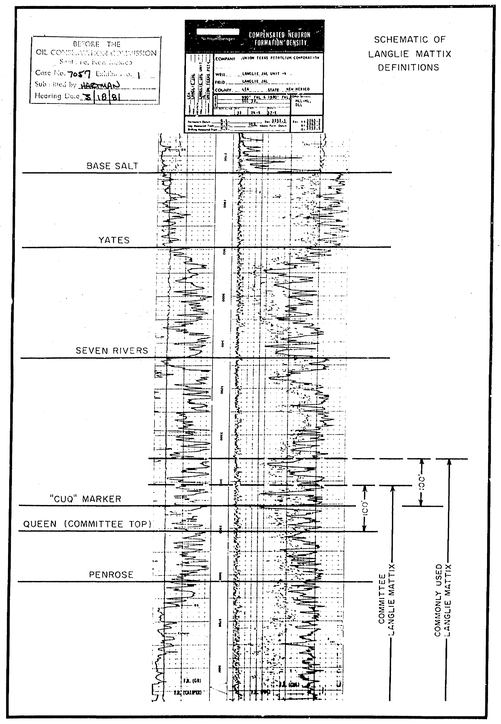
	D. Hartman 40-Acre Langlie Mattix Gas	ARCO Offset 40-Acre Jalmat Gas
October, 1980 Daily Allowable	800 MCFD	94 MCFD

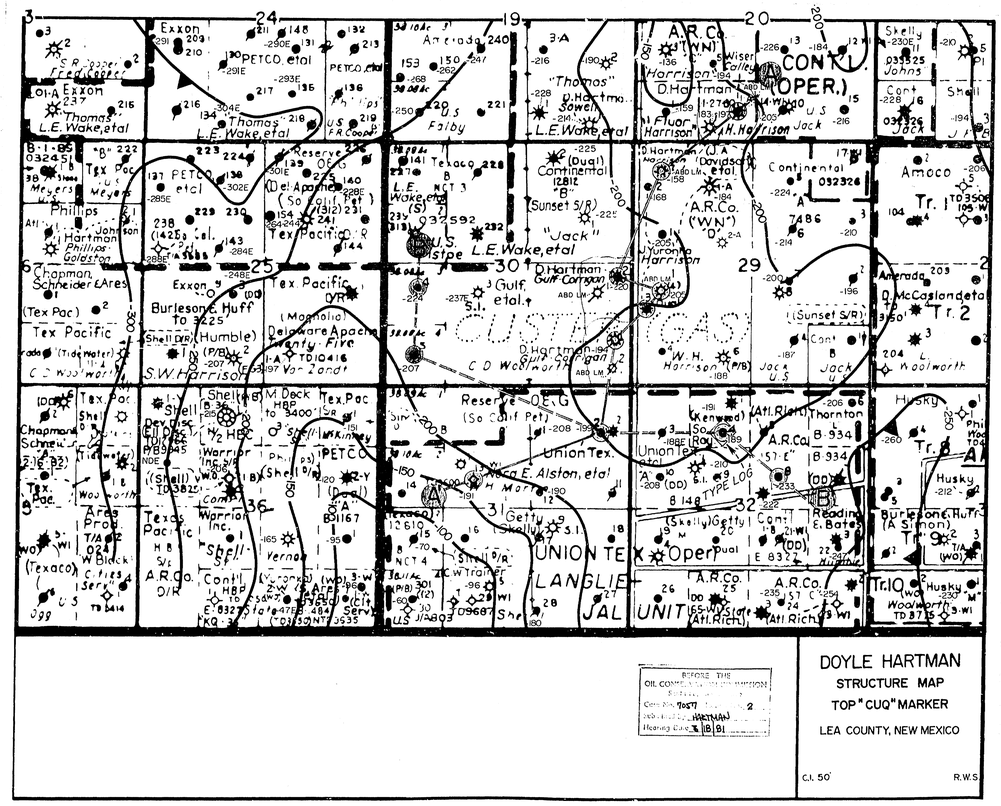
ARCO 5
7057

U.S.G.S. ROSWELL, N.M.
BEST AVAILABLE COPY

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7057 Exhibit No. 1
Submitted by HEATHMAN
Hearing Date 3 18 81

SCHEMATIC OF
LANGLIE MATTIX
DEFINITIONS




DOYLE HARTMAN
STRUCTURE MAP
TOP "CUQ" MARKER
LEA COUNTY, NEW MEXICO
C.I. 50'
R.W.S.
BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 10577 Exhibit No. 2
Submitted by: HARTMAN
Hearing Date: 8 18 81

A
NORTHEAST

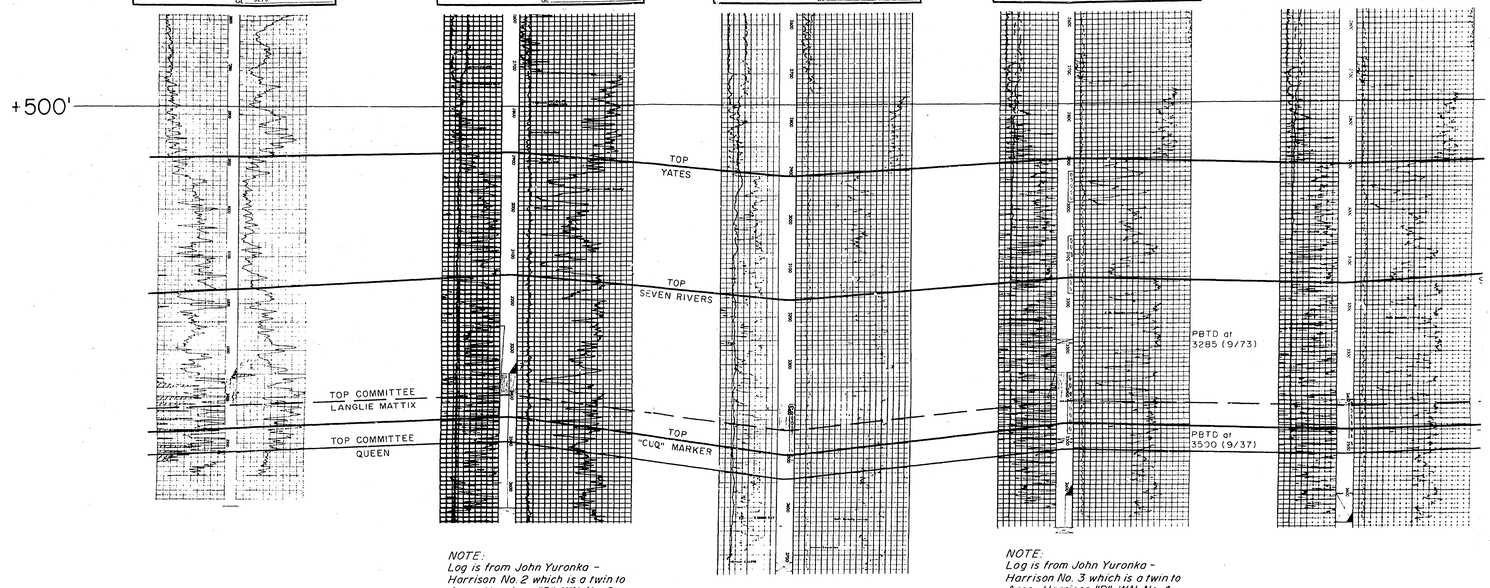
COMPANY	Wiser Oil Company
	(Two States Oil Corporation)
WELL	Calley "A" No. 1
FIELD	Langlie-Mattix
LOCATION	660 FSL & 2310 FWL (N)
	Section 20, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	
DF	
GL	3273

COMPANY	ARCo
	(Western Natural)
WELL	Harrison "D" WN No. 2
FIELD	Langlie-Mattix
LOCATION	660 FNL & 660 FWL (D)
	Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3290
DF	
GL	

COMPANY	Doyle Hartman
WELL	Gulf-Liddle Corrigan No. 2
FIELD	Langlie Mattix
LOCATION	2310 FSL & 330 FEL (I)
	Section 30, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3267
DF	
GL	3257

COMPANY	ARCo
	(Western Natural)
WELL	Harrison "D" WN No. 4
FIELD	Langlie Mattix
LOCATION	1980 FSL & 660 FWL (L)
	Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	
DF	
GL	3269

COMPANY	John Yuronka
WELL	Harrison No. 3
FIELD	Langlie Mattix
LOCATION	1650 FSL & 330 FWL (L)
	Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3263
DF	
GL	



NOTE:
Log is from John Yuronka - Harrison No. 2 which is a twin to Arco - Harrison "D" WN No. 2.

NOTE:
Log is from John Yuronka - Harrison No. 3 which is a twin to Arco - Harrison "D" WN No. 4

COMPLETION RECORD

SPUD DATE	8-9-39 COMP. DATE 9-15-39
TD	3635 PBTD 3635
CASING RECORD	8 5/8 @ 387 w/195
	5 1/2 @ 3360 w/250
PERFORATING RECORD	OH: 3360-3635
STIMULATION	A/2000
	Shot/160 (3530-3630)
IP	IPF= 30 BOPD + 1125 MCFPD
GOR	37,500 GA
TP	CP
CHOKE	TUBING 2 3/8 @ 3630
DST RECORD	
REMARKS	Well P & A in 1978.
	1-52 to 11-77 Cump 2335.9 MMCF
	No Queen reported.

COMPLETION RECORD

SPUD DATE	1-3-37 COMP. DATE 2-16-37
TD	3650 PBTD 3650
CASING RECORD	9 5/8 @ 2762 w/727
	7 @ 3356 w/100
PERFORATING RECORD	OH: 3356-3650
STIMULATION	Natural
IP	IPF= 14,500 MCFPD
GOR	GA
TP	1420 CP
CHOKE	TUBING 2 7/8 @ 3623
DST RECORD	DST 3256-3365 SSG
	DST 3256-3460 5000 MCFPD
	DST 3258-3596 6000 MCFPD
	1976 Recompleted to Jalmat 2-76.
REMARKS	Last Langlie-Mattix production 5-67.
	Langlie-Mattix Cum: 9111.6 MMCF
	No Queen reported.

COMPLETION RECORD

SPUD DATE	10-18-78 COMP. DATE 10-29-78
TD	3734 PBTD 3715
CASING RECORD	8 5/8 @ 461 w/350
	5 1/2 @ 3732 w/775
PERFORATING RECORD	Perf: 3389-3503 w/17
STIMULATION	A/3500
	SWF/60,000 + 115,000
IP	IPF= 335 MCFPD
GOR	GA
TP	130 CP 135
CHOKE	20/64 TUBING @
DST RECORD	
REMARKS	Top of reported Queen @ 3383.
	Pick same as "CUQ" marker.
	7-80 Prod: 6 BOPD
	409 MCFPD

COMPLETION RECORD

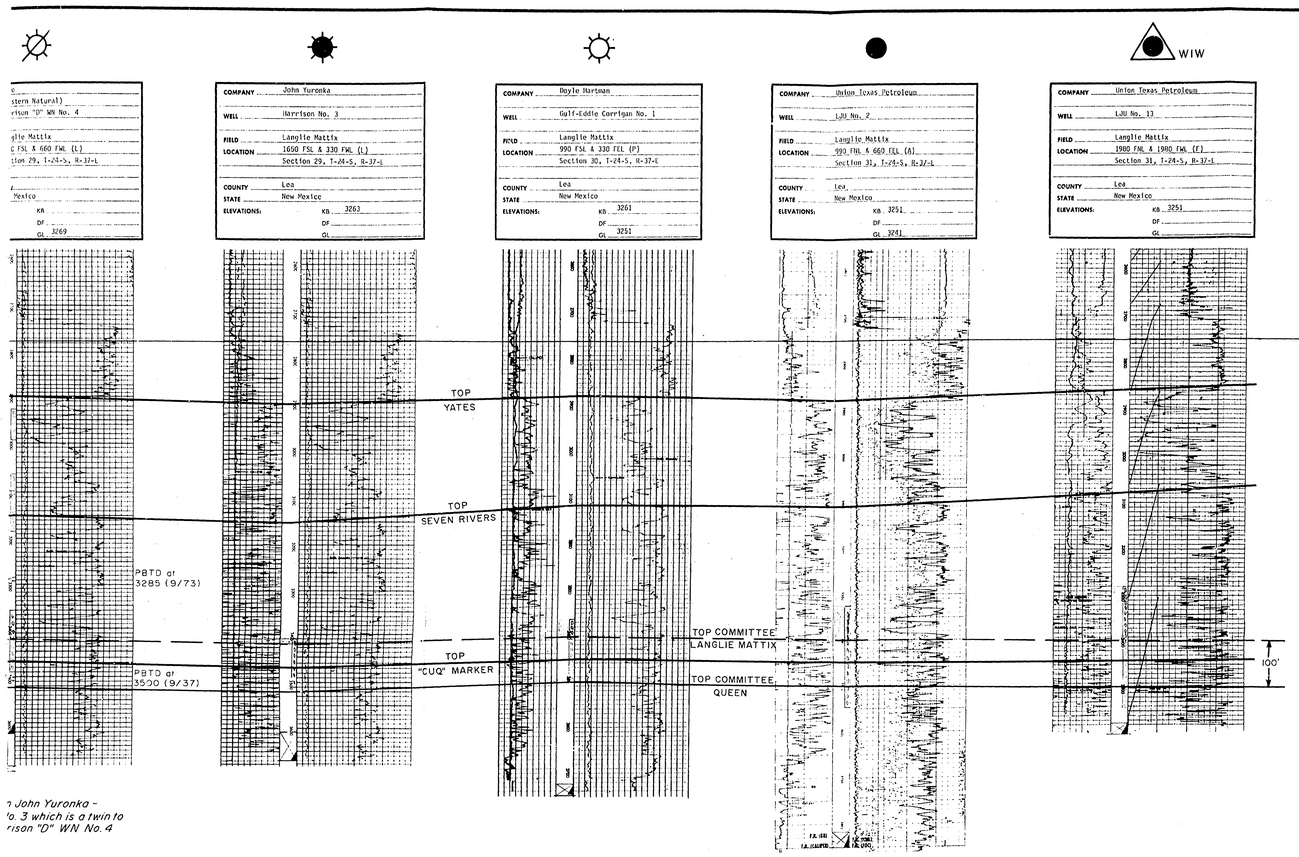
SPUD DATE	6-24-37 COMP. DATE 9-2-37
TD	3699 PBTD 3500
CASING RECORD	9 5/8 @ 2770 w/750
	7 @ 3624 w/100
PERFORATING RECORD	Perf: 3360-3490
STIMULATION	
IP	IPF= 6000 MCFPD
GOR	GA
TP	CP
CHOKE	TUBING @
DST RECORD	DST 3360-3415 F/1500 MCFPD.
REMARKS	4-1-66 Perf: 2927-2992. A/1500. SF/10,000 + 10,000. F/1650 MCFPD. Returned to production as a Jalmat Langlie-Mattix dual.
	9-9-23 PBTD @ 3285. Perf: 3061-3185. SF/15,000 + 15,000. Now producing from Jalmat 2927-3165.
	Langlie-Mattix Cum 6700.2 MMCF
	No Queen reported.

COMPLETION RECORD

SPUD DATE	8-23-79 COMP. DATE 9-10-79
TD	3670 PBTD 3609
CASING RECORD	8 5/8 @ 420 w/350
	4 1/2 @ 3670 w/700
PERFORATING RECORD	Perf: 3410-3610 w/8
STIMULATION	A/4200
	SWF/20,000 + 43,000
IP	IPF= 362 MCFPD + 15 BOPD
GOR	GA 33
TP	CP
CHOKE	TUBING @
DST RECORD	
REMARKS	Top of reported Queen = 3509.
	Top of Committee Queen @ 3522.
	6-80 Prod: 34 BOPD
	309 MCFPD

N.M.S.U.C.F. MICROGRAPHICS

BEST AVAILABLE COPY



COMPANY ... John Yuronka
WELL ... Harrison No. 3
FIELD ... Langlie Mattix
LOCATION ... 1650 FSL & 330 FWL (L) Section 29, T-24-S, R-37-E
COUNTY ... Lea
STATE ... New Mexico
ELEVATIONS: KB 3263 DF GL

COMPANY ... Doyle Hartman
WELL ... Gulf-Eddie Corrigan No. 1
FIELD ... Langlie Mattix
LOCATION ... 990 FSL & 330 FEL (P) Section 30, T-24-S, R-37-E
COUNTY ... Lea
STATE ... New Mexico
ELEVATIONS: KB 3261 DF GL 3251

COMPANY ... Union Texas Petroleum
WELL ... LJU No. 2
FIELD ... Langlie Mattix
LOCATION ... 990 FSL & 660 FEL (A) Section 31, T-24-S, R-37-E
COUNTY ... Lea
STATE ... New Mexico
ELEVATIONS: KB 3251 DF GL 3241

COMPANY ... Union Texas Petroleum
WELL ... LJU No. 13
FIELD ... Langlie Mattix
LOCATION ... 1980 FNL & 1980 FWL (F) Section 31, T-24-S, R-37-E
COUNTY ... Lea
STATE ... New Mexico
ELEVATIONS: KB 3251 DF GL

n John Yuronka - 'o. 3 which is a twin to rison "D" WN No. 4

COMPLETION RECORD

4-37 COMP. DATE 9-2-37
? PBTD 3500
78 @ 2770 w/750
@ 3624 w/100
f: 3360-3490
: 6000 MCFPD
GR
CP
TUBING @
3360-3415 F/1500 MCFPD.
-66 Perf: 2927-2996. A/1500.
0,000 + 10,000. F/1650 MCFPD.
rned to production as a Jalmat
ttix-Mattix dual).
-73 PBTD @ 3285. Perf: 3061-
3. SF/15,000 + 15,000. Now
ucing from Jalmat 2927-3165.
ttix-Mattix Cums 6700.2 MMCF
Queen reported.

COMPLETION RECORD

SPUD DATE 8-23-79 COMP. DATE 9-19-79
TD 3670 PBTD 3609
CASING RECORD 8 5/8 @ 420 w/350
4 1/2 @ 3670 w/700
PERFORATING RECORD Perf: 3410-3510 w/8
STIMULATION A/4200
SWF/20,000 + 43,000
IP IPF= 362 MCFPD + 15 BOPD
GOR GR 33
TP CP 160
CHOKE TUBING @
DST RECORD
Top of reported Queen @ 3509.
Top of Committee Queen @ 3522.
REMARKS 6-80 Prod: 34 BOPD
305 MCFPD

COMPLETION RECORD

SPUD DATE 9-29-78 COMP. DATE 10-27-78
TD 3750 PBTD 3723
CASING RECORD 8 5/8 @ 611 w/350
5 1/2 @ 3748 w/700
PERFORATING RECORD Perf: 3364-3502 w/17
STIMULATION A/4800
SWF/60,000 + 80,000
IP IPF= 254 MCFPD + 15 BWPD
GOR GR
TP CP 160
CHOKE 16/64 TUBING @
DST RECORD
Top of reported Queen @ 3463.
Pick same as "CUQ" marker.
REMARKS 7-80 Prod: 2 BOPD
409 MCFPD

COMPLETION RECORD

SPUD DATE 9-6-74 COMP. DATE 10-7-74
TD 3850 PBTD 3810
CASING RECORD 8 5/8 @ 802 w/250
4 1/2 @ 3850 w/1300
PERFORATING RECORD Perf: 3324-3548 w/40
STIMULATION A/1897
SWF/30,000 + 39,000
IP IPF= 53 BOPD + 40 BWPD
GOR GR
TP CP
CHOKE TUBING @
DST RECORD
Top of reported Queen pick @ 3451.
Pick same as "CUQ" marker.
REMARKS

COMPLETION RECORD

SPUD DATE 9-13-71 COMP. DATE 4-6-72
TD 3600 PBTD 3576
CASING RECORD 8 5/8 @ 802 w/425
4 1/2 @ 3600 w/1222
PERFORATING RECORD Perf: 3280-3543 w/46
STIMULATION A/500
Well completed as Langlie Mattix
IP water injector.
GOR GR
TP CP
CHOKE TUBING @
DST RECORD
Top of reported Queen @ 3255.
REMARKS

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION A-A' (NORTHEAST-SOUTHWEST)

SECTIONS 20, 29, 30 & 31, T-24-S, R-37-E

SHOWING

LANGLIE MATTIX INTERVALS

VERT SCALE 1" = 100' D HARTMAN
HORIZ SCALE NONE R STUMP

FILE
COMPANY 70537 3
HARTMAN
3/10/81

B
NORTHWEST

B'
SOUTHEAST

COMPANY	Gulf Oil Corporation	Gulf Oil Corporation	Union Texas Petroleum	Union Texas Petroleum	Union Texas Petroleum
WELL	C. D. Woolworth No. 4	Woolworth No. 5	LJU No. 2	LJU No. 4	LJU No. 8
FIELD	Langlie Mattix	Langlie Mattix	Langlie Mattix	Langlie Mattix	Langlie Mattix
LOCATION	2080 FSL & 760 FWL (L) Section 30, T-24-S, R-37-E	660 FSL & FWL (M) Section 30, T-24-S, R-37-E	990 FNL & 660 FEL (A) Section 31, T-24-S, R-37-E	990 FNL & 1980 FWL (C) Section 32, T-24-S, R-37-E	1930 FNL & 1980 FEL (G) Section 32, T-24-S, R-37-E
COUNTY	Lea	Lea	Lea	Lea	Lea
STATE	New Mexico	New Mexico	New Mexico	New Mexico	New Mexico
ELEVATIONS: KB	3276	3271	3251	3263	3261
DF					
GL	3265	3262	3241	3253	3251

+500'

TOP YATES

TOP SEVEN RIVERS

TOP COMMITTEE LANGLIE MATTIX

TOP "CUQ" MARKER

TOP COMMITTEE QUEEN

100'

+500'

COMPLETION RECORD				
SPUD DATE	3-22-77 COMP. DATE 5-14-77	2-27-78 COMP. DATE 4-13-78	9-6-74 COMP. DATE 10-7-74	8-31-74 COMP. DATE 10-5-74	8-24-74 COMP. DATE 10-1-74
TD	3700 PBTD 3680	3750 PBTD	3850 PBTD 3818	3850 PBTD 3817	3850 PBTD 3817
CASING RECORD	8 5/8 @ 362 w/ 300 4 1/2 @ 3700 w/1105	9 5/8 @ 371 w/250 4 1/2 @ 3750 w/800	8 5/8 @ 802 w/250 4 1/2 @ 3850 w/1300	8 5/8 @ 802 w/600 5 1/2 @ 3850 w/1500	8 5/8 @ 820 w/500 4 1/2 @ 3850 w/1500
PERFORATING RECORD	Perf: 3414-3662 w/56	Perf: 3406-3692 w/28	Perf: 3324-3548 w/40	Perf: 3361-3550 w/25	Perf: 3361-3568 w/50
STIMULATION	A/3600 SWF/35,000 + 52,100	A/6400 SWF/18,000 + 30,000	A/1897 SWF/30,000 + 39,000	A/1050 SWF/20,000 + 30,000	A/1500 SF/30,000 + 39,000
IP	IPF= 48 BO + 81 BWPD	IPF= 25 BO + 26 BWPD	IPF= 53 BOPD + 80 BWPD	IPF= 30 BOPD + 65 BWPD	IP= 82 BOPD + 11 BWPD
GOR	GR	GR	GR	GR	GR
TP	CP	CP	CP	CP	CP
CHOKE	TUBING @	TUBING @	TUBING @	TUBING @	TUBING @
DST RECORD	Top of reported Queen @ 3500. Pick same as "CUQ" marker.	Top of reported Queen @ 3692. Pick same as "CUQ" marker.	Top of reported Queen @ 3451. Pick same as "CUQ" marker.	Top of reported Queen @ 3452. Pick same as "CUQ" marker.	Top of reported Queen @ 3496. Pick same as "CUQ" marker.
REMARKS					

7057 4
HARTMAN
3/8/81

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION B-B'
(NORTHWEST-SOUTHEAST)

SECTIONS 30, 31 & 32, T-24-S, R-37-E

SHOWING

LANGLIE MATTIX INTERVALS

VERT. SCALE 1" = 100'
HORIZ. SCALE NONE

D HARTMAN
R STUMP

N.M.O.C.C. HOBBS, N.M.
MUST REMAIN WITH WELL

R 35 E

R 36 E

R 37 E

T 23 S

T 24 S

LANGLIE LYNN (QN) UNIT

CONT'L (OR) State

LANGLIE-MATTIX

JAL MAT

U.S.G.S. MICROGRAPHICS

NOT AVAILABLE OUT

R 37 E

R 38 E

T 23 S

T 24 S

LEA COUNTY

(ON) (OR) State

LANGLIE-MATTIX

JALMAT

LANGLIE-JAL

TEAGUE ABO, DEVN, SMPS, ELBG.

GRBG

CLINE-DEVN (Abd.)

MONUMENT-DRAW DEVN. (Abd.)

FOWLER BLBR, DRKD, POCK, DEVN, FSLM, SMPS, ELBG.

STATELINE-ELBG.

W. DOLLARHIDE

T 25 S

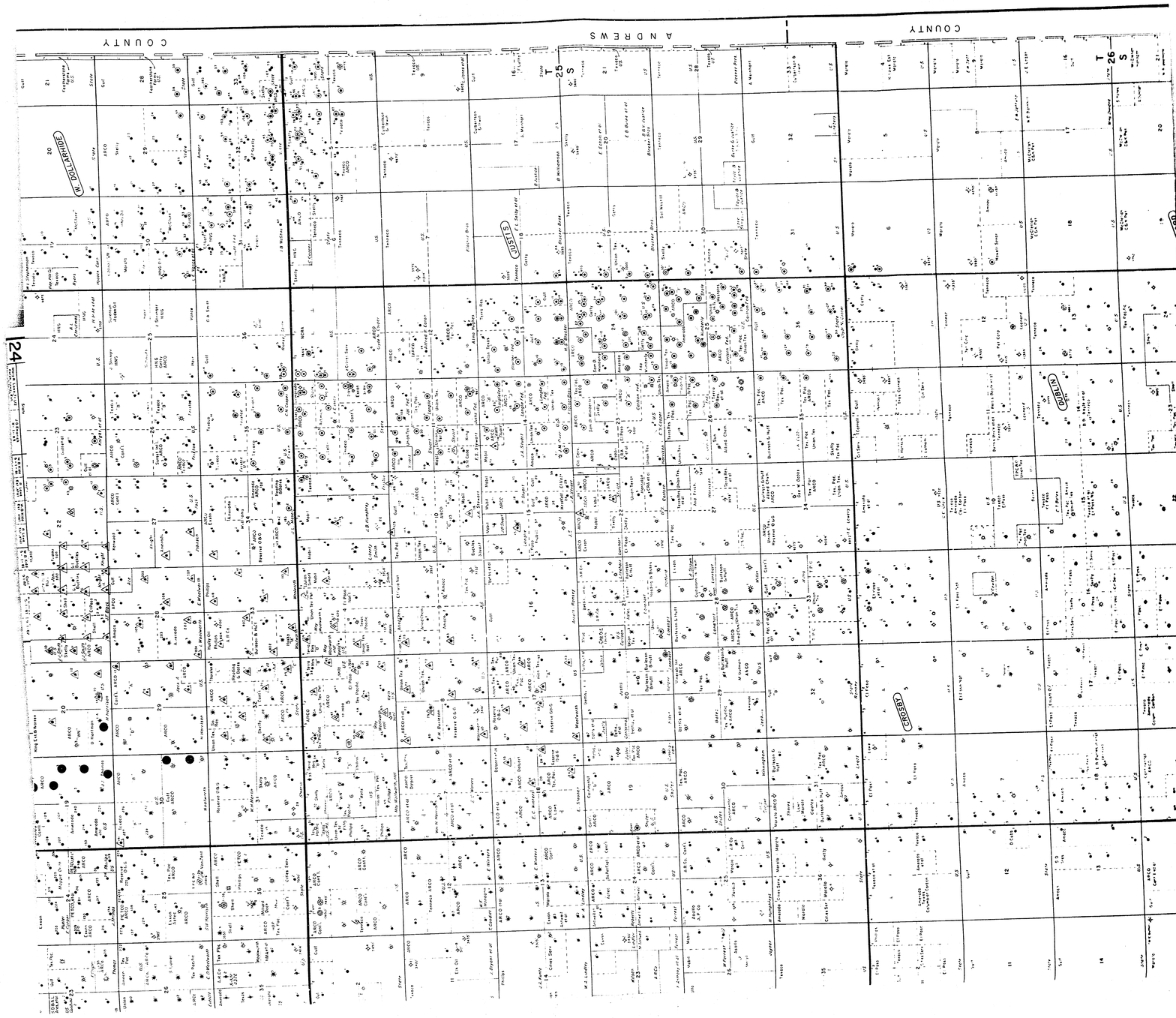
T 26 S

25 35

26 35

WEST JAL

CROSBY


24
COUNTY
ANDREWS
COUNTY
W. DOLLARHIDE
T 25 S
T 26 S
CROSBY
U.S.G.S. TOPOGRAPHIC
NOT ENCLOSED

T 25 S

T 26 S

R 35 E

R 36 E

R 37 E

CROSBY

WEST JAL

ANDREWS COUNTY

WINKLER COUNTY

JUSTIS

CROSBY

DUBLIN

S. LEONARD

RHODES

T 25 S

T 26 S

R 37 E

yellow dots - Rest of Industry
Red dots - Marathon

EXAMINER HEARING
OIL CONSERVATION DIVISION
ARCO EXHIBIT NO. 6
CASE NO. 7057

ARCO Oil and Gas Company
Permian District Midland, Texas

LANGLIE MATTIX
& JALMAT POOLS
LEA COUNTY, NEW MEXICO

SCALE 1" = 2000

U.S.G.S. TOPOGRAPHICS

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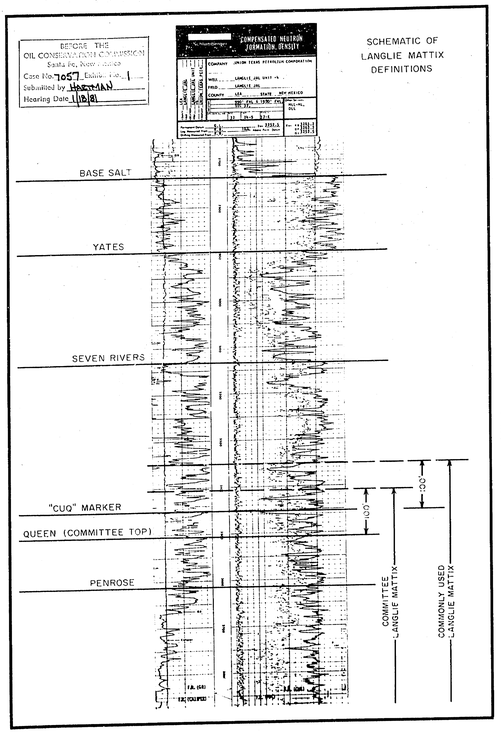
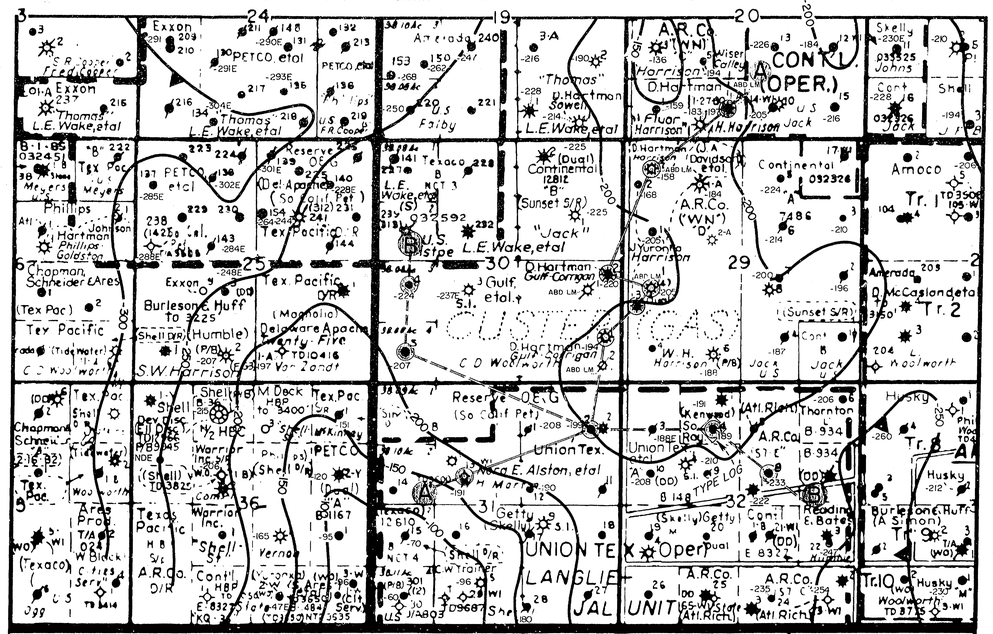
BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7057 Exhib. No. 1
Submitted by Herman
Hearing Date 1/10/81



SCHEMATIC OF
LANGLIE MATTIX
DEFINITIONS


DOYLE HARTMAN
STRUCTURE MAP
TOP "CUQ" MARKER
LEA COUNTY, NEW MEXICO
C.I. 50'
R.W.S.
BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7057 Exhibit No. 2
Submitted by Hartman
Hearing Date 3 19 81

A
NORTHEAST

COMPANY	Wiser Oil Company (Two States Oil Corporation)	ARCo	Doyle Hartman	ARCo (Western Natural)
WELL	Calley "A" No. 1	Harrison "D" WN No. 2	Gulf-Liddle Corrigan No. 2	Harrison "D" WN No. 4
FIELD	Langlie-Mattix	Langlie Mattix	Langlie Mattix	Langlie Mattix
LOCATION	660 FSL & 2310 FWL (N) Section 20, T-24-S, R-37-E	660 FNL & 660 FWL (D) Section 29, T-24-S, R-37-E	2310 FSL & 330 FEL (I) Section 30, T-24-S, R-37-E	1980 FSL & 660 FWL (L) Section 29, T-24-S, R-37-E
COUNTY	Lea	Lea	Lea	Lea
STATE	New Mexico	New Mexico	New Mexico	New Mexico
ELEVATIONS: KB		3290	3267	
DF				
GL	3273		3257	3269

COMPANY	John Turonka			
WELL	Harrison No. 3			
FIELD	Langlie Mattix			
LOCATION	1650 FSL & 330 FWL (L) Section 29, T-24-S, R-37-E			
COUNTY	Lea			
STATE	New Mexico			
ELEVATIONS: KB	3263			
DF				
GL				

+500'

TOP YATES

TOP SEVEN RIVERS

TOP COMMITTEE LANGLIE MATTIX

TOP COMMITTEE QUEEN

TOP "CUQ" MARKER

PBTD at 3285 (9/73)

PBTD at 3500 (9/37)

NOTE:
Log is from John Yuronka - Harrison No. 2 which is a twin to Arco - Harrison "D" WN No. 2.

NOTE:
Log is from John Yuronka - Harrison No. 3 which is a twin to Arco - Harrison "D" WN No. 4

COMPLETION RECORD

SPUD DATE	8-9-39	COMP. DATE	9-15-39
TD	3635	PBTD	3635
CASING RECORD	8 5/8 @ 307 w/195		
	5 1/2 @ 3360 w/250		
PERFORATING RECORD	OH: 3360-3635		
STIMULATION	A/2000 Shot/160 [3530-3610]		
IP	IPF: 30 BOPD + 1125 MCFPD		
GOR	37,500	SA	
TP		CP	
CHOKE	TUBING 2 3/8 @ 3630		
DST RECORD			
REMARKS	Well P & A in 1978.		
	1-60 to 11-77 Cum 4335.9 MMCF		
	No Queen reported.		

COMPLETION RECORD

SPUD DATE	1-3-37	COMP. DATE	2-16-37
TD	3650	PBTD	3650
CASING RECORD	9 5/8 @ 2762 w/127		
	7 @ 3356 w/100		
PERFORATING RECORD	OH: 3356-3650		
STIMULATION	Natural		
IP	IPF: 14,500 MCFPD		
GOR		SA	
TP	1420	CP	
CHOKE	TUBING 2 7/8 @ 3623		
DST RECORD	DST 3256-3365 556		
	DST 3356-3650 5000 MCFPD		
	DST 3258-3596 6000 MCFPD		
	1976 Recompleted to Jalmat 2-76.		
REMARKS	Last Langlie-Mattix production 5-67.		
	Langlie-Mattix Cum 9111.6 MMCF		
	No Queen reported.		

COMPLETION RECORD

SPUD DATE	10-10-38	COMP. DATE	10-29-38
TD	3734	PBTD	3715
CASING RECORD	8 5/8 @ 361 w/350		
	5 1/2 @ 3732 w/275		
PERFORATING RECORD	Perf: 3389-3503 w/17		
STIMULATION	A/3800 5Wf/60,000 + 85,000		
IP	IPF: 335 MCFPD		
GOR		SA	
TP	130	CP 135	
CHOKE	20/64 inches @		
DST RECORD			
REMARKS	Top of reported Queen @ 3383. Pick same as "CUQ" marker.		
	7-60 Prod: 6 BOPD 495 MCFPD		

COMPLETION RECORD

SPUD DATE	6-24-37	COMP. DATE	9-2-37
TD	3699	PBTD	3500
CASING RECORD	9 5/8 @ 2770 w/750		
	7 @ 3624 w/100		
PERFORATING RECORD	Perf: 3360-3490		
STIMULATION			
IP	IPF: 6000 MCFPD		
GOR		SA	
TP		CP	
CHOKE	TUBING @		
DST RECORD	DST 3360-3415 F/1500 MCFPD.		
	4-1-63 Perf: 2927-2994. A/1500. 5F/10,000 + 10,000. F/1650 MCFPD. Returned to production as a Jalmat Langlie-Mattix dual.		
	6-9-73 PBTD @ 3285. Perf: 3061-3185. 5F/15,000 + 15,000. Now producing from Jalmat 2927-3165.		
REMARKS	Langlie-Mattix Cum 6200.2 MMCF		
	No Queen reported.		

COMPLETION RECORD

SPUD DATE	*8-23-79	COMP. DATE	9-19-79
TD	3670	PBTD	3629
CASING RECORD	8 5/8 @ 420 w/350		
	4 1/2 @ 3670 w/700		
PERFORATING RECORD	Perf: 3410-3510 w/8		
STIMULATION	A/4200 5Wf/20,000 + 43,000		
IP	IPF: 262 MCFPD + 15 BOPD		
GOR		SA 33	
TP		CP	
CHOKE	TUBING @		
DST RECORD	Top of reported Queen @ 3529.		
	Top of Grayburg @ 3622.		
REMARKS	6-80 Prod: 34 BOPD 355 MCFPD		

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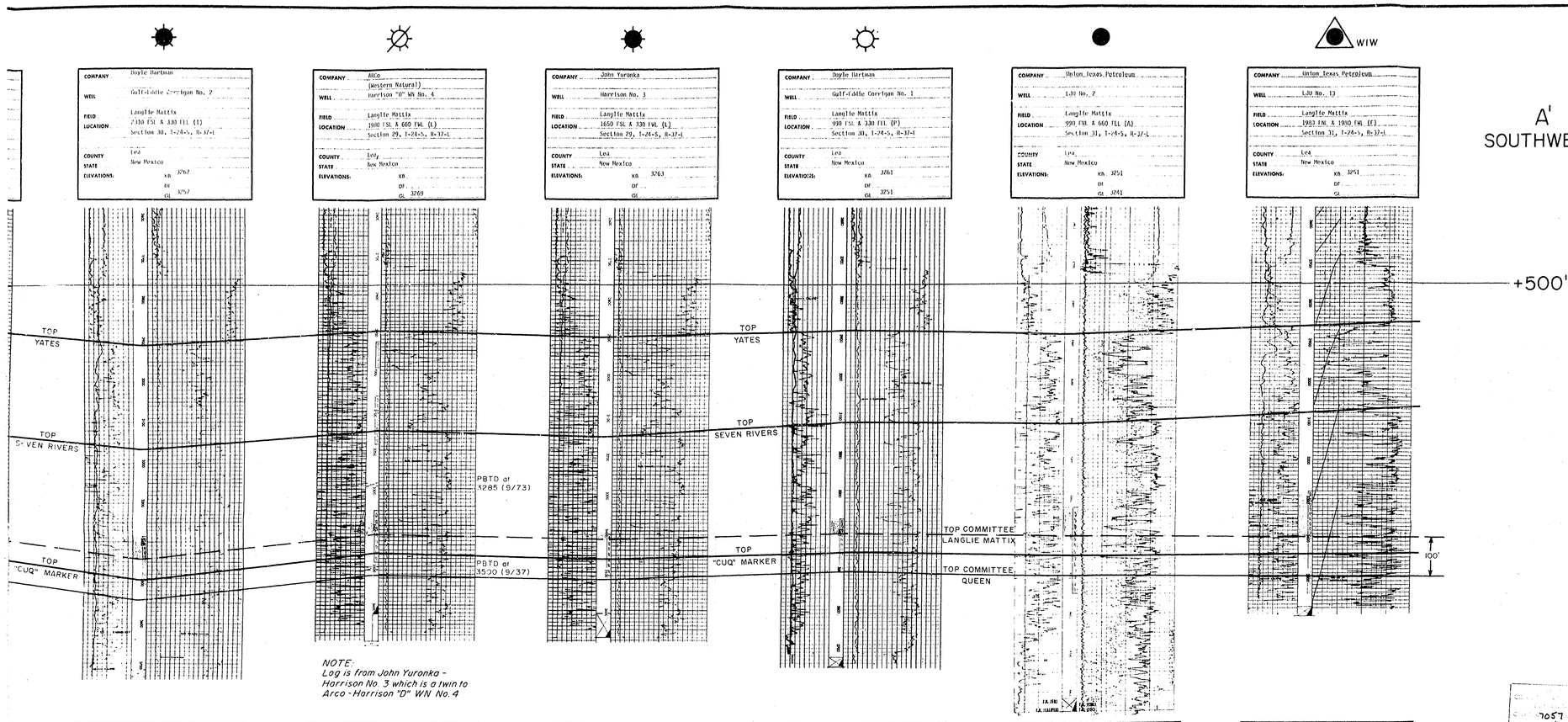


NOTE:
Log is from John Yuronka - Harrison No. 3 which is a twin to Arco - Harrison "D" WN No. 4

COMPLETION RECORD

SPUD DATE 10-4-78 COMP DATE 10-29-78
TD 3734 PBTD 3715
CASING RECORD 8 5/8 @ 491 w/350
5 1/2 @ 3732 w/775
PERFORATING RECORD Perf: 3389-3503 w/17
STIMULATION A/3000
SWF/60,000 + 45,000
IP IP! 335 MCFPD
GOR SA
TP 130 CP 135
CHOKE 20/64 TUBING @
DST RECORD
Top of reported Queen @ 3483.
Pick same as "CUQ" marker.
REMARKS 7-80 Prod: 6 BOPD
409 MCFPD

COMPLETION RECORD

SPUD DATE 6-24-37 COMP DATE 9-2-37
TD 3699 PBTD 3503
CASING RECORD 9 5/8 @ 2770 w/750
7 @ 3624 w/100
PERFORATING RECORD Perf: 3360-3490
STIMULATION
IP IP!+ 6000 MCFPD
GOR SA
TP CP
CHOKE TUBING @
DST RECORD DSI 3360-3434 F/1509 MCFPD.
6-1-66 Perf: 2927-2948. A/1500. SF/10,000 + 10,000. F/1650 MCFPD. Returned to production as a Jalmat Langlie-Mattix dual.
2-9-72 PBTD @ 3285. Perf: 3061-3185. SF/15,000 + 15,000. Now producing from Jalmat 2927-3148.
REMARKS Langlie-Mattix Cum 6200.2 MMCF
No Queen reported.

COMPLETION RECORD

SPUD DATE 9-23-79 COMP DATE 9-19-79
TD 3670 PBTD 3609
CASING RECORD 8 5/8 @ 420 w/350
4 1/2 @ 3670 w/700
PERFORATING RECORD Perf: 3410-3510 w/8
STIMULATION A/4200
SWF/20,000 + 43,000
IP IPP+ 362 MCFPD + 15 BOPD
GOR GA 33
TP CP
CHOKE TUBING @
DST RECORD
Top of reported Queen @ 3509.
Top of Committee Queen @ 3522.
REMARKS 6-80 Prod: 34 BOPD
305 MCFPD

COMPLETION RECORD

SPUD DATE 9-29-78 COMP DATE 10-27-78
TD 3750 PBTD 3723
CASING RECORD 8 5/8 @ 611 w/350
5 1/2 @ 3748 w/700
PERFORATING RECORD Perf: 3364-3502 w/17
STIMULATION A/4800
SWF/60,000 + 80,000
IP IPP+ 254 MCFPD + 15 BWPD
GOR GA
TP 160 CP 160
CHOKE 16/64 TUBING @
DST RECORD
Top of reported Queen @ 3463.
Pick same as "CUQ" marker.
REMARKS 7-80 Prod: 2 BOPD
409 MCFPD

COMPLETION RECORD

SPUD DATE 9-4-71 COMP DATE 10-2-71
TD 3850 PBTD 3818
CASING RECORD 8 5/8 @ 802 w/250
4 1/2 @ 3850 w/1300
PERFORATING RECORD Perf: 3324-3540 w/40
STIMULATION A/1897
SWF/30,000 + 39,000
IP IPF+ 53 BOPD + 40 BWPD
GOR GA
TP CP
CHOKE TUBING @
DST RECORD
Top of reported Queen pick @ 3451.
Pick same as "CUQ" marker.
REMARKS

COMPLETION RECORD

SPUD DATE 9-13-72 COMP DATE 4-6-72
TD 3600 PBTD 3576
CASING RECORD 8 5/8 @ 802 w/475
4 1/2 @ 3600 w/1222
PERFORATING RECORD Perf: 3280-3543 w/46
STIMULATION A/500
Well completed as Langlie Mattix water injector.
GOR GA
TP CP
CHOKE TUBING @
DST RECORD
Top of reported Queen @ 3255.
REMARKS

7057
HARTMAN 3
3-18-81

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION A-A'
(NORTHEAST-SOUTHWEST)

SECTIONS 20,29,30 & 31, T-24-S, R-37-E

SHOWING
LANGLIE MATTIX INTERVALS

VERT SCALE 1" = 100'
HORIZ SCALE NONE

D HARTMAN
© STUMP

B
NORTHWEST

B'
SOUTHEAST

COMPANY	Gulf Oil Corporation	Gulf Oil Corporation	Union Texas Petroleum	Union Texas Petroleum	Union Texas Petroleum
WELL	C. D. Woolworth No. 4	Woolworth No. 5	LJU No. 2	LJU No. 4	LJU No. 8
FIELD	Langlie Mattix	Langlie Mattix	Langlie Mattix	Langlie Mattix	Langlie Mattix
LOCATION	2080 FSL & 760 FWL (L) Section 30, T-24-S, R-37-E	660 FSL & FWL (M) Section 30, T-24-S, R-37-E	990 FNL & 660 FEL (A) Section 31, T-24-S, R-37-E	990 FNL & 1980 FWL (C) Section 32, T-24-S, R-37-E	1930 FNL & 1980 FEL (G) Section 32, T-24-S, R-37-E
COUNTY	Lea	Lea	Lea	Lea	Lea
STATE	New Mexico	New Mexico	New Mexico	New Mexico	New Mexico
ELEVATIONS: KB	3276	3271	3251	3263	3261
DF					
GL	3265	3262	3241	3253	3251

+500'

TOP YATES

TOP SEVEN RIVERS

TOP COMMITTEE LANGLIE MATTIX

TOP "CUQ" MARKER

TOP COMMITTEE QUEEN

100'

+500'

COMPLETION RECORD					
SPUD DATE	3-22-77 COMP. DATE 5-14-77	2-27-78 COMP. DATE 4-13-78	9-6-74 COMP. DATE 10-7-74	8-31-74 COMP. DATE 10-5-74	8-24-74 COMP. DATE 10-1-74
TD	3700 PBTD 3680	3750 PBTD	3850 PBTD 3818	3850 PBTD 3817	3850 PBTD 3817
CASING RECORD	8 5/8 @ 362 w/ 300 4 1/2 @ 3700 w/1100	9 5/8 @ 371 w/250 4 1/2 @ 3750 w/800	8 5/8 @ 802 w/250 4 1/2 @ 3550 w/1300	8 5/8 @ 802 w/600 5 1/2 @ 3850 w/1500	8 5/8 @ 820 w/500 4 1/2 @ 3850 w/1500
PERFORATING RECORD	Perf: 3414-3662 w/56	Perf: 3406-3692 w/28	Perf: 3324-3548 w/40	Perf: 3361-3550 w/25	Perf: 3361-3566 w/50
STIMULATION	A/3600 SWF/35,000 + 52,500	A/6400 SWF/18,000 + 30,000	A/1897 SWF/30,000 + 39,000	A/1050 SWF/20,000 + 30,000	A/1500 SF/30,000 + 39,000
IP	IPF: 48 BO + 81 BWPD	IPF: 25 BO + 26 BWPD	IPF: 53 BOPD + 40 BWPD	IPF: 30 BOPD + 65 BWPD	IPF: 82 BOPD + 11 BWPD
GOR	GR	GR	GR	GR	GR
TP	CP	CP	CP	CP	CP
CHOKE	TUBING @	TUBING @	TUBING @	TUBING @	TUBING @
DST RECORD	Top of reported Queen @ 3500. Pick same as "CUQ" marker.	Top of reported Queen @ 3487. Pick same as "CUQ" marker.	Top of reported Queen @ 3451. Pick same as "CUQ" marker.	Top of reported Queen @ 3452. Pick same as "CUQ" marker.	Top of reported Queen @ 3496. Pick same as "CUQ" marker.
REMARKS					

CASE NO. 7057 EXHIBIT NO. 4
DOYLE HARTMAN
Hearing Date 3-18-81

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION B-B'
(NORTHWEST-SOUTHEAST)

SECTIONS 30, 31 & 32, T-24-S, R-37-E

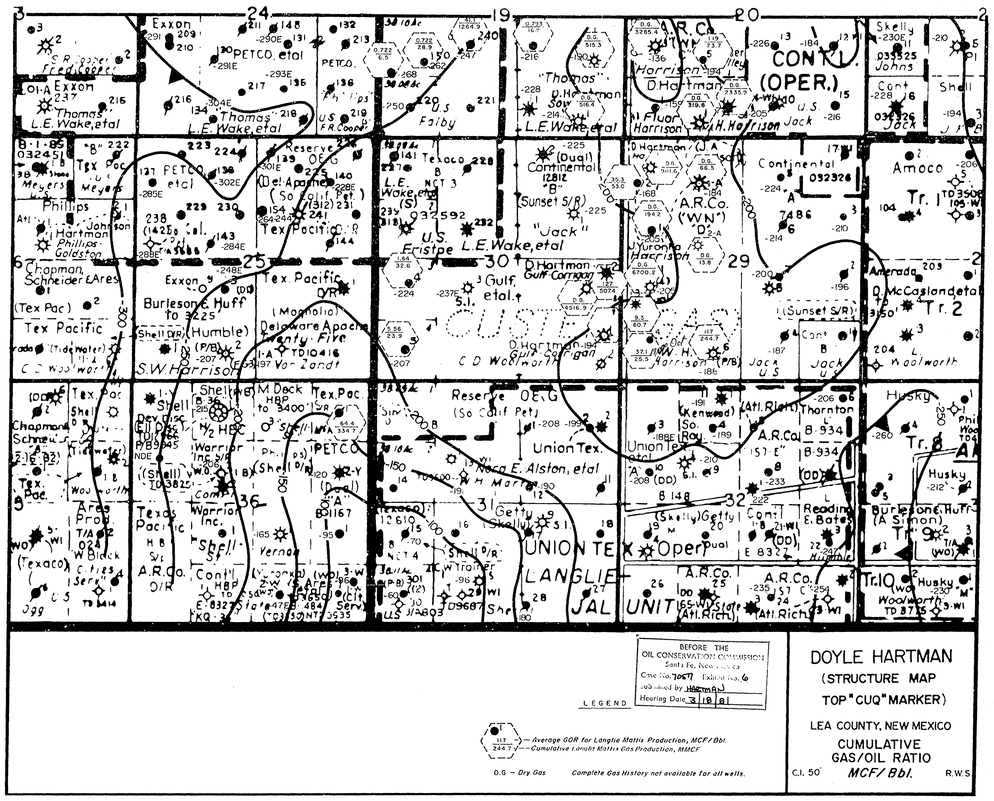
SHOWING

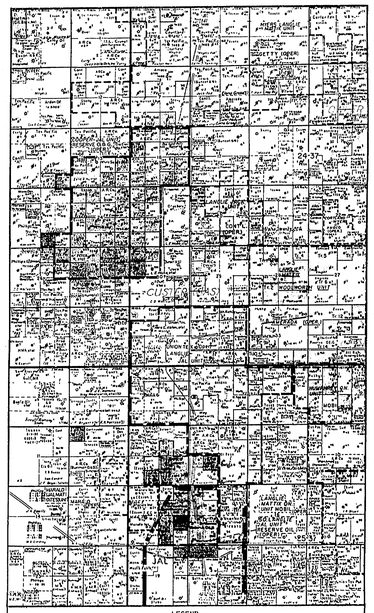
LANGLIE MATTIX INTERVALS

VERT. SCALE 1" = 100'
HORIZ SCALE NONE

D HARTMAN
R STUMP

N.M.O.C.C. HOBBS OFFICE


BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
Case No. 7057 Exhibit No. 6
Submitted by Hartman Oil
Hearing Date 3 18 81
LEGEND
— Average GOR for Langlie Mattix Production, MCF/Bbl.
— Cumulative Langlie Mattix Gas Production, MMCF
O.G. — Dry Gas
Complete Gas History not available for all wells.
DOYLE HARTMAN
(STRUCTURE MAP
TOP "CUQ" MARKER)
LEA COUNTY, NEW MEXICO
CUMULATIVE
GAS/OIL RATIO
C.I. 50 MCF/Bbl. R.W.S.



LEGEND

LANGLIE MATTIX POOL

- EXEMPT UNDER R-520, 1954
- EXEMPT UNDER R-4051, 1970
- EXEMPT UNDER R-5972
- EXEMPT UNDER R-5590, 1977
- WATER INJECTOR R-4019, 1970
- ABD. LANGLIE-MATTIX PRORATION UNITS UNDER R-520 EXEMPTION

JALMAT POOL

- EXEMPT UNDER R-5590, 1977
- EXEMPT UNDER R-520, 1954
- WATER INJECTOR R-4020, 1970

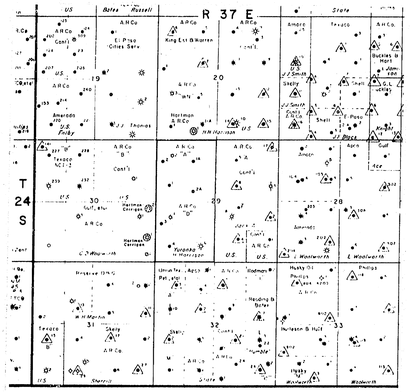
BALANCE OF WATERFLOOD UNIT AREA

EXCEPTION MAP

Field LANGLIE MATTIX & JALMAT		County LEA	State N. MEX.
Engineer W.P.A.	Drwn. By H's	Date	File DOYLE HARTMAN
RADTKE, AYCOCK & ASSOC., INC.			Ref. No.
310 WALL TOWERS WEST	MIDLAND, TEXAS		EXHIBIT

U.S.G.S. MICROGRAPHICS

BEST AVAILABLE COPY



ARCO EXHIBIT NO. 1
CASE NO. 7057

ARCO Oil and Gas Company
Permian District Midland, Texas

HARRISON LEASE
LEA COUNTY, NEW MEXICO

EXHIBIT 1

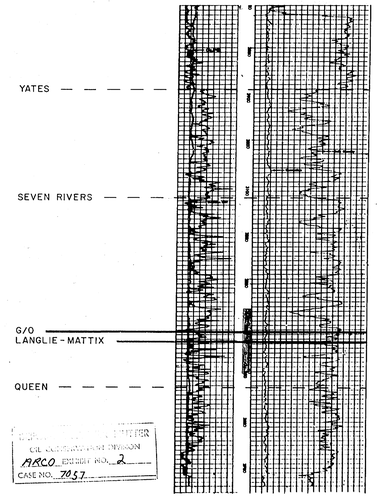
SCALE: 1"=2000'

U.S.G.S. TOPOGRAPHIC

BEST AVAILABLE COPY

EXHIBIT 2

DOYLE HARTMAN
GULF – EDDY CORRIGAN NO. 1
990' FSL & 330' FEL
SEC 30, T 24 S, R 37 E
LEA COUNTY, NEW MEXICO
EL K B 3261'



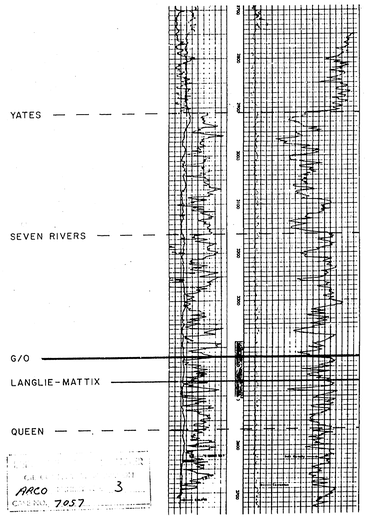
OIL CONSERVATION DIVISION
ARCO EXHIBIT NO. 2
CASE NO. 7057

EXHIBIT 3

DOYLE HARTMAN

GULF – EDDY CORRIGAN NO. 2

2310' FSL & 330' FEL
SEC. 20, T 24 S, R 37 E
LEA COUNTY, NEW MEXICO
EL. K.B. 3206'

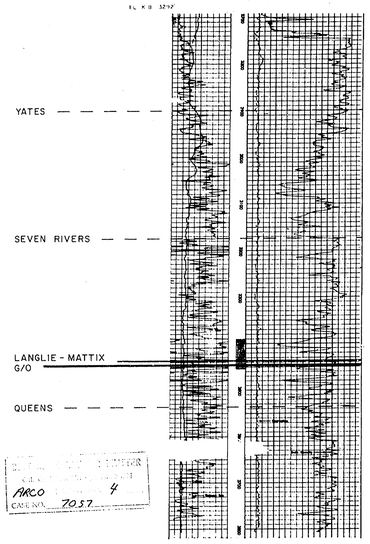


CASE
ARCO 3
CASE NO. 7057

U.S.G.S. PHOTOGRAPHICS
BEST AVAILABLE COPY

EXHIBIT 4

DOYLE HARTMAN
HENRY HARRISON NO. 1
1650' FWL & 330' FSL
SEC. 20, T. 24 S., R. 37 E.
LEA COUNTY, NEW MEXICO
EL. K.B. 3219'



CASE NO. 7037 EXHIBIT NO. 4
ARCO
CASE NO. 7037 4

EXHIBIT 5

COMPARISON OF GAS ALLOWABLES
FOR LANGLIE MATTIX AND JALMAT POOLS ON
EQUIVALENT TRACTS

	D. Hartman 40-Acre Langlie Mattix Gas	ARCO Offset 40-Acre Jalmat Gas
October, 1980 Daily Allowable	800 MCFD	94 MCFD

ARCO
CASE NO. 7057
5

R 35 E

R 36 E

R 37 E

T 23 S

T 24 S

LANGLIE LYNX (QN) UNIT CONT'L. (OP)

LANGLIE-MATTIX

JALMAT

N.M.S.U.C.F. MICROGRAPHICS

BEST AVAILABLE COPY

R 36 E

R 37 E

R 38 E

T 23 S

T 24 S

LANGLIE LYNN (OK) UNIT CONT'L.(OR) State

LANGLIE-MATTIX

JALMAT

(TEAGUE) GRBG, ABO, DEVN, SMPS, ELBG.

C-LINE DEVN (ABD.)

MONUMENT DRAW DEVN. (ABD.)

STATELINE-ELBG.

FOWLER BLBR, DRID, PDCK, DEVN, FSLM, SMPS, ELBG.

W. DOLLARHIDE

LEA COUNTY

T 25 S

T 26 S

25 35

26 35

WEST JAL

CROSBY

R 35 E

R 36 E

R 37 E

WEST JAL

JUSTIS

CROSBY

DUBLIN

S. LEONARD

RHODES

ANDREWS COUNTY

WINKLER COUNTY

T 25 S

T 26 S

R 36 E

R 37 E

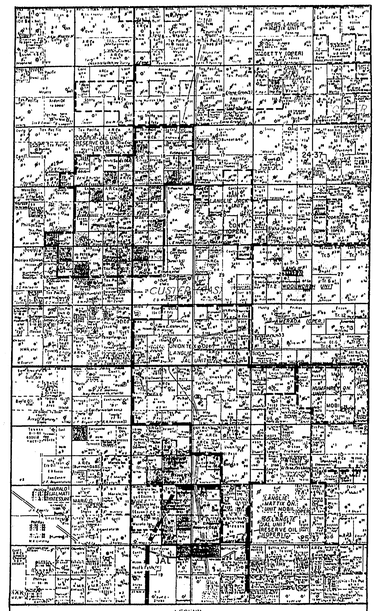
yellow dots - Part of Industry
Red dots - Hartman

ARCO Oil and Gas Company
Permian District Midland, Texas

LANGLIE MATTIX & JALMAT POOLS
LEA COUNTY, NEW MEXICO

SCALE 1" = 2000'

EXHIBIT NO. 6
CASE NO. 7057



LEGEND

LANGLIE MATTIX POOL

- EXEMPT UNDER R-520, 1954
- EXEMPT UNDER R-4051, 1970
- EXEMPT UNDER R-5972
- EXEMPT UNDER R-5590, 1977
- WATER INJECTOR R-4019, 1970
- ABD. LANGLIE-MATTIX PRORATION UNITS UNDER R-520 EXEMPTION

JALMAT POOL

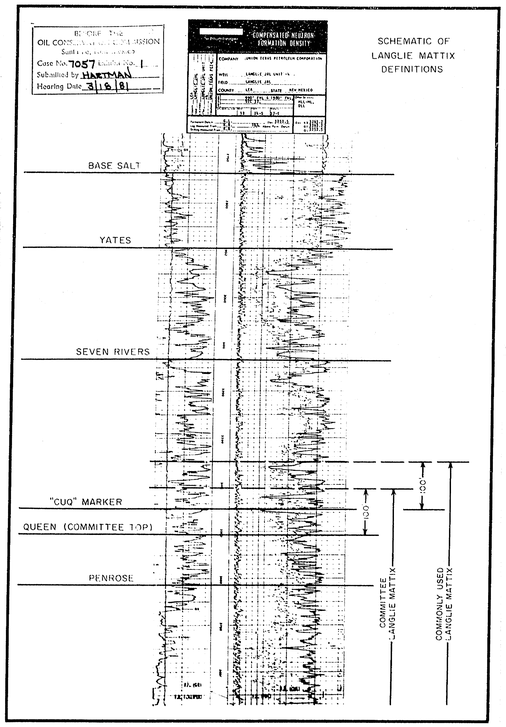
- EXEMPT UNDER R-5590, 1977
- EXEMPT UNDER R-520, 1954
- WATER INJECTOR R-4020, 1970

BALANCE OF WATERFLOOD UNIT AREA

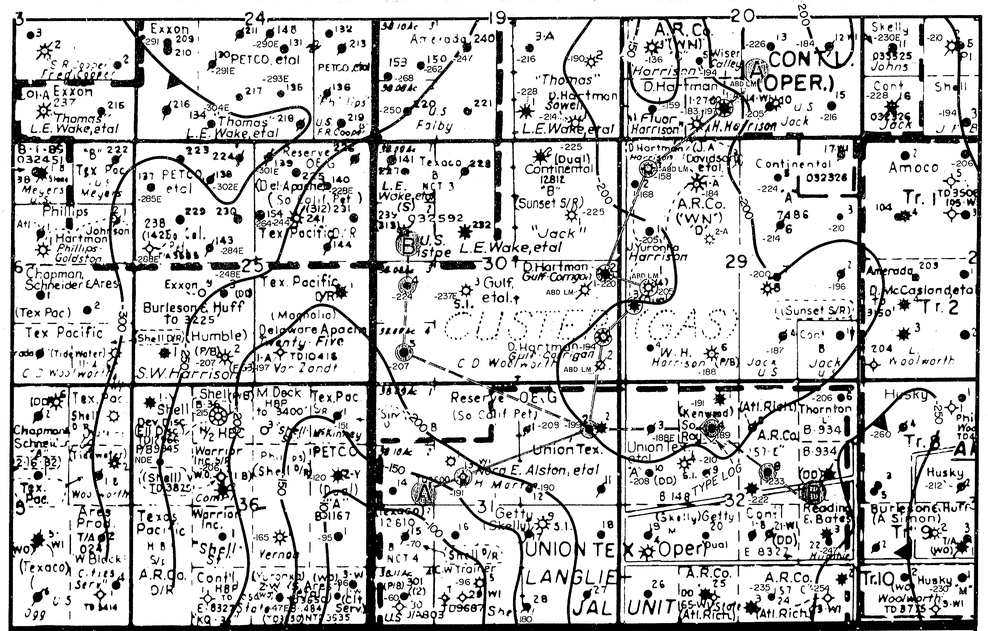
EXCEPTION MAP

Field LANGLIE MATTIX & JALMAT		County LEA	State N. MEX.
Engineer W.P.A.	Drwn. By H's	Date	File DOYLE HARTMAN
RADTKE, AYCOCK & ASSOC., INC.			Ref No.
310 WALL TOWERS WEST	MIDLAND, TEXAS		EXHIBIT

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 7057 Exhibit No. 1
Submitted by HARTMAN
Hearing Date 3/16/81



SCHEMATIC OF
LANGLIE MATTIX
DEFINITIONS


CUSTER GAS
UNION TE
LANGLIE-
JAL
UNIT
CONT.
(OPER.)
DOYLE HARTMAN
STRUCTURE MAP
TOP "CUQ" MARKER
LEA COUNTY, NEW MEXICO
C.I. 50'
R.W.S.
OIL CONSERVATION DIVISION
Case No. 7057
Submitted by HARTMAN
Hearing Date 3 18 81

A
NORTHEAST

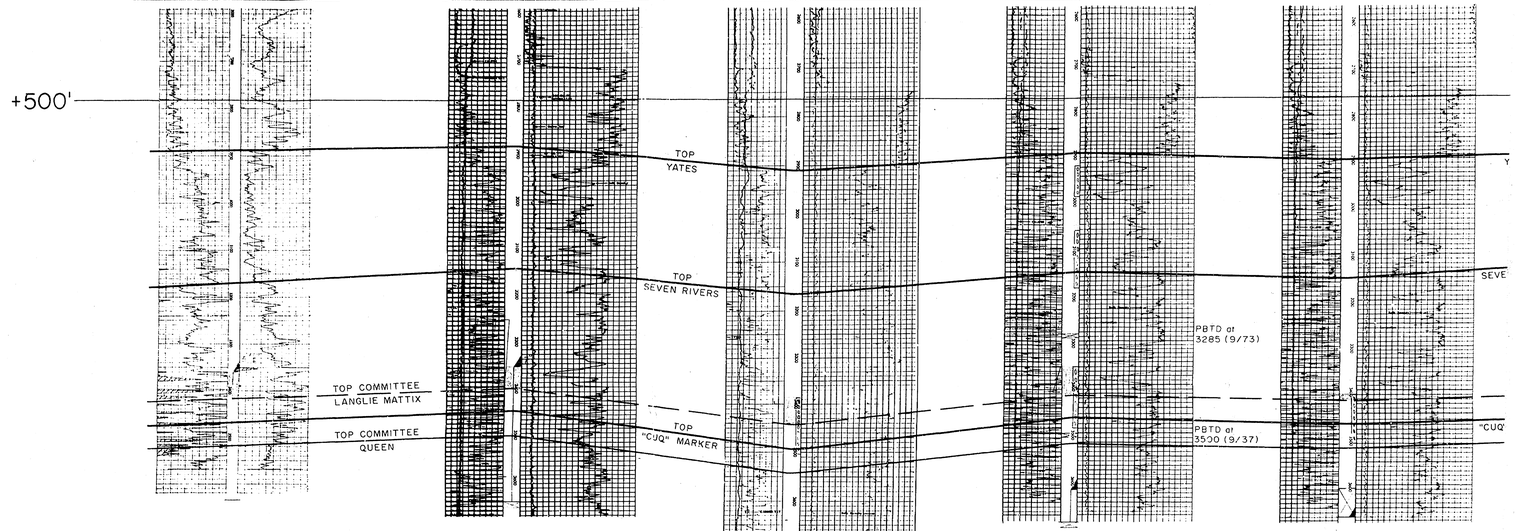
COMPANY	Wilson Oil Company
	(Two States Oil Corporation)
WELL	Calley "A" No. 1
FIELD	Langlie-Mattix
LOCATION	660 FSL & 2310 FWL (N)
	Section 20, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	
DF	
GL	3273

COMPANY	ARCo
	(Western Natural)
WELL	Harrison "D" WN No. 2
FIELD	Langlie-Mattix
LOCATION	660 FNL & 660 FWL (D)
	Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3290
DF	
GL	

COMPANY	Doyle Hartman
WELL	Gulf-Liddie Corrigan No. 2
FIELD	Langlie Mattix
LOCATION	2310 FSL & 330 FEL (I)
	Section 30, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3267
DF	
GL	3257

COMPANY	ARCo
	(Western Natural)
WELL	Harrison "D" WN No. 4
FIELD	Langlie Mattix
LOCATION	1980 FSL & 660 FWL (L)
	Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	
DF	
GL	3269

COMPANY	John Yuronka
WELL	Harrison No. 3
FIELD	Langlie Mattix
LOCATION	1650 FSL & 330 FWL (L)
	Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3263
DF	
GL	



NOTE:
Log is from John Yuronka - Harrison No. 2 which is a twin to Arco - Harrison "D" WN No. 2.

NOTE:
Log is from John Yuronka - Harrison No. 3 which is a twin to Arco - Harrison "D" WN No. 4

COMPLETION RECORD

SPUD DATE	11-2-39 COMP. DATE 9-15-39
TD	3635 PBTD 3635
CASING RECORD	8 5/8 @ 387 w/195
	5 1/2 @ 3360 w/250
PERFORATING RECORD	OH: 3360-3635
STIMULATION	A/2000
	Shot/160 (3530-3610)
IP	IPF= 30 BOPD + 1125 MCFPD
GOR	37,500 CP
TP	CP
CHOKE	TUBING 2 3/8 @ 3630
DST RECORD	
REMARKS	Well P & A in 1978.
	1-49 to 11-77 Cum 2335.9 MMCF
	No Queen reported.

COMPLETION RECORD

SPUD DATE	1-3-37 COMP. DATE 2-16-37
TD	3650 PBTD 3650
CASING RECORD	9 5/8 @ 2762 w/727
	7 @ 3356 w/100
PERFORATING RECORD	OH: 3356-3650
STIMULATION	Natural
IP	IPF= 14,500 MCFPD
GOR	CP
TP	1420 CP
CHOKE	TUBING 2 7/8 @ 3623
DST RECORD	DST 3256-3365 SSG
	DST 3256-3460 5000 MCFPD
	DST 3258-3596 6000 MCFPD
	1976 Recompleted to Jalmat 2-76.
REMARKS	Last Langlie-Mattix production 5-67.
	Langlie-Mattix Cum= 9111.6 MMCF
	No Queen reported.

COMPLETION RECORD

SPUD DATE	10-8-78 COMP. DATE 10-29-78
TD	3734 PBTD 3715
CASING RECORD	8 5/8 @ 461 w/350
	5 1/2 @ 3732 w/775
PERFORATING RECORD	Perf: 3389-3503 w/17
STIMULATION	A/3800
	SWF/60,000 + 85,000
IP	IPF= 335 MCFPD
GOR	CP
TP	130 CP 135
CHOKE	20/64 TUBING @
DST RECORD	
	Top of reported Queen @ 3383.
	Pick same as "CUQ" marker.
REMARKS	7-80 Prod: 6 BOPD
	459 MCFPD

COMPLETION RECORD

SPUD DATE	6-24-37 COMP. DATE 9-2-37
TD	3699 PBTD 3500
CASING RECORD	9 5/8 @ 2770 w/750
	7 @ 3624 w/100
PERFORATING RECORD	Perf: 3360-3490
STIMULATION	
IP	IPF= 1200 MCFPD
GOR	CP
TP	CP
CHOKE	TUBING @
DST RECORD	DST 3380-3415 F/1500 MCFPD.
	4-61: Perf: 2927-2934, A/1500,
	SF/10,000 + 10,000. F/1660 MCFPD.
	Returned to production as a Jalmat
	Langlie-Mattix dual.
	9-2-71 PBTD @ 3285. Perf: 3361-
	3388. SF/15,000 + 15,000. Now
REMARKS	producing from Jalmat 2927-3365.
	Langlie-Mattix Cum 6200.2 MMCF
	No Queen reported.

COMPLETION RECORD

SPUD DATE	8-23-79 COMP. DATE 9-19-79
TD	3670 PBTD 3609
CASING RECORD	8 5/8 @ 420 w/350
	4 1/2 @ 3670 w/700
PERFORATING RECORD	Perf: 3410-3510 w/8
STIMULATION	A/4200
	SWF/20,000 + 43,000
IP	IPF= 362 MCFPD + 15 BOPD
GOR	CP 33
TP	CP
CHOKE	TUBING @
DST RECORD	
	Top of reported Queen @ 3599.
	Top of Cornittee Queen @ 3522.
REMARKS	6-80 Prod: 35 BOPD
	305 MCFPD

COMPANY	Doyle Hartman
WELL	Gulf-Liddle Corrigan No. 2
FIELD	Langlie Mattix
LOCATION	2310 FSL & 330 FEL (I) Section 30, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3267
DF	
GL	3257

COMPANY	ARCO (Western Natural)
WELL	Harrison "D" WN No. 4
FIELD	Langlie Mattix
LOCATION	1980 FSL & 660 FWL (L) Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	
DF	
GL	3269

COMPANY	John Yuronka
WELL	Harrison No. 3
FIELD	Langlie Mattix
LOCATION	1650 FSL & 330 FWL (L) Section 29, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3263
DF	
GL	

COMPANY	Doyle Hartman
WELL	Gulf-Liddle Corrigan No. 1
FIELD	Langlie Mattix
LOCATION	990 FSL & 330 FEL (P) Section 30, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3261
DF	
GL	3251

COMPANY	Union Texas Petroleum
WELL	LJU No. 2
FIELD	Langlie Mattix
LOCATION	990 FNL & 660 FEL (A) Section 31, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3251
DF	
GL	3241

WIW

COMPANY	Union Texas Petroleum
WELL	LJU No. 13
FIELD	Langlie Mattix
LOCATION	1980 FNL & 1980 FWL (F) Section 31, T-24-S, R-37-E
COUNTY	Lea
STATE	New Mexico
ELEVATIONS: KB	3251
DF	
GL	

A'
SOUTHWEST

+500'

TOP YATES

TOP SEVEN RIVERS

TOP "CUQ" MARKER

PBTD at 3285 (9/73)

PBTD at 3500 (9/37)

TOP COMMITTEE LANGLIE MATTIX

TOP COMMITTEE QUEEN

100'

NOTE:
Log is from John Yuronka - Harrison No. 3 which is a twin to Arco - Harrison "D" WN No. 4

COMPLETION RECORD

SPUD DATE	10-4-78 COMP. DATE 10-29-78
TD	3731 PBTD 3715
CASING RECORD	8 5/8 @ 401 w/350 5 1/2 @ 3732 w/775
PERFORATING RECORD	Perf: 3389-3503 w/17
STIMULATION	A/3000 SWF/60,000 + 85,000
IP	IPF- 335 MCFPD
GOR	GR
TP	130 CP 135
CHOKE	23/64 TUBING @
DST RECORD	Top of reported Queen @ 3483. Pick same as CUQ marker.
REMARKS	7-79 Prod: 6 BOPD 409 MCFPD

COMPLETION RECORD

SPUD DATE	6-24-37 COMP. DATE 9-2-37
TD	3699 PBTD 3500
CASING RECORD	9 5/8 @ 2770 w/750 7 @ 3624 w/100
PERFORATING RECORD	Perf: 3360-3490
STIMULATION	
IP	IPF= 6000 MCFPD
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	DST 3360-3415 F/1500 MCFPD.
REMARKS	4-1-65 Perf: 2927-2994. A/1500. SF/10,000 + 10,000. F/1650 MCFPD. Returned to production as a Jalmat Langlie-Mattix dual. 9-9-73 PBTD @ 3285. Perf: 3061-3185. SF/35,000 + 15,000. Now producing from Jalmat 2927-3165. Langlie-Mattix Cum 6700.2 MMCF No Queen reported.

COMPLETION RECORD

SPUD DATE	8-23-79 COMP. DATE 9-19-79
TD	3670 PBTD 3699
CASING RECORD	8 5/8 @ 420 w/350 4 1/2 @ 3670 w/700
PERFORATING RECORD	Perf: 3410-3510 w/8
STIMULATION	A/4200 SWF/20,000 + 43,000
IP	IPF= 162 MCFPD + 15 BOPD
GOR	GR 33
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3509. Top of Committee Queen @ 3522.
REMARKS	6-80 Prod: 34 BOPD 305 MCFPD

COMPLETION RECORD

SPUD DATE	9-29-78 COMP. DATE 10-27-78
TD	3750 PBTD 3723
CASING RECORD	8 5/8 @ 611 w/350 5 1/2 @ 3748 w/700
PERFORATING RECORD	Perf: 3364-3502 w/17
STIMULATION	A/4800 SWF/60,000 + 80,000
IP	IPF= 254 MCFPD + 15 BWPD
GOR	GR
TP	160 CP 160
CHOKE	16/64 TUBING @
DST RECORD	Top of reported Queen @ 3463. Pick same as "CUQ" marker.
REMARKS	7-80 Prod: 2 BOPD 409 MCFPD

COMPLETION RECORD

SPUD DATE	9-6-74 COMP. DATE 10-7-74
TD	3850 PBTD 3810
CASING RECORD	8 5/8 @ 802 w/250 4 1/2 @ 3850 w/1300
PERFORATING RECORD	Perf: 3324-3540 w/40
STIMULATION	A/1897 SWF/30,000 + 39,000
IP	IPF= 53 BOPD + 40 BWPD
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen pick @ 3451. Pick same as "CUQ" marker.
REMARKS	

COMPLETION RECORD

SPUD DATE	9-4-71 COMP. DATE 4-6-72
TD	3600 PBTD 3576
CASING RECORD	8 5/8 @ 802 w/475 4 1/2 @ 3600 w/1222
PERFORATING RECORD	Perf: 3280-3543 w/46
STIMULATION	A/500
IP	Well completed as Langlie Mattix water injector.
GOR	GR
TP	CP
CHOKE	TUBING @
DST RECORD	Top of reported Queen @ 3255.
REMARKS	

OIL CONSERVATION DIVISION
NO. 7057 3
HARTMAN
RECEIVED 3/19/81

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION A-A'
(NORTHEAST-SOUTHWEST)

SECTIONS 20, 29, 30 & 31, T-24-S, R-37-E

SHOWING
LANGLIE MATTIX INTERVALS

VERT SCALE 1" = 100'
HORIZ SCALE NONE

D HARTMAN
R STUMP

U.M.I. MICROGRAPHICS
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B
NORTHWEST

B'
SOUTHEAST

+500'

+500'

TOP YATES

TOP SEVEN RIVERS

TOP COMMITTEE LANGLIE MATTIX

TOP "CUQ" MARKER

TOP COMMITTEE QUEEN

100'

COMPANY	Gulf Oil Corporation	Gulf Oil Corporation	Union Texas Petroleum	Union Texas Petroleum	Union Texas Petroleum
WELL	C. D. Woolworth No. 4	Woolworth No. 5	LJU No. 2	LJU No. 4	LJU No. 3
FIELD	Langlie Mattix	Langlie Mattix	Langlie Mattix	Langlie Mattix	Langlie Mattix
LOCATION	2080 FSL & 760 FWL (L) Section 30, T-24-S, R-37-E	660 FSL & FWL (M) Section 30, T-24-S, R-37-E	990 FNL & 660 FEL (A) Section 31, T-24-S, R-37-E	990 FNL & 1980 FWL (C) Section 32, T-24-S, R-37-E	1930 FNL & 1980 FEL (G) Section 32, T-24-S, R-37-E
COUNTY	Lea	Lea	Lea	Lea	Lea
STATE	New Mexico	New Mexico	New Mexico	New Mexico	New Mexico
ELEVATIONS: KB	3276	3271	3251	3263	3261
DF					
GL	3265	3262	3241	3253	3251

COMPLETION RECORD

SPUD DATE	3-22-77 COMP. DATE 5-14-77	2-27-78 COMP. DATE 4-13-78	9-6-74 COMP. DATE 10-7-74	8-31-74 COMP. DATE 10-5-74	8-24-74 COMP. DATE 10-1-74
TD	3700 PBTD 3680	3750 PBTD	3850 PBTD 3818	3850 PBTD 3817	3850 PBTD 3817
CASING RECORD	8 5/8 @ 362 w/ 300 4 1/2 @ 3700 w/1100	9 5/8 @ 371 w/250 4 1/2 @ 3750 w/800	8 5/8 @ 802 w/250 4 1/2 @ 3850 w/1300	8 5/8 @ 802 w/600 5 1/2 @ 3850 w/1500	8 5/8 @ 820 w/500 4 1/2 @ 3850 w/1500
PERFORATING RECORD	Perf: 3414-3662 w/56	Perf: 3406-3692 w/28	Perf: 3324-3548 w/40	Perf: 3361-3550 w/25	Perf: 3361-3568 w/50
STIMULATION	A/3600 SWF/35,000 + 52,500	A/6400 SWF/18,000 + 30,000	A/1897 SWF/30,000 + 39,000	A/1050 SWF/20,000 + 30,000	A/1500 SF/30,000 + 39,000
IP	IPP= 48 BO + 81 BWPD	IPP= 25 BO + 26 BWPD	IPP= 53 BOPD + 40 BWPD	IPP= 30 BOPD + 65 BWPD	IP= 82 BOPD + 11 BWPD
GOR	GA	GA	GA	GA	GA
TP	CP	CP	CP	CP	CP
CHOKE	TUBING @	TUBING @	TUBING @	TUBING @	CHOKE TUBING @
DST RECORD	Top of reported Queen @ 3500. Pick same as "CUQ" marker.	Top of reported Queen @ 3487. Pick same as "CUQ" marker.	Top of reported Queen @ 3451. Pick same as "CUQ" marker.	Top of reported Queen @ 3452. Pick same as "CUQ" marker.	Top of reported Queen @ 3496. Pick same as "CUQ" marker.
REMARKS					

NO. THIS
CROSS SECTION
SHOWN ON
7057 4
HARTMAN
3/16/81

LEGEND

- TOP COMMITTEE QUEEN
- TOP COMMITTEE LANGLIE MATTIX INTERVAL (100' ABOVE TOP QUEEN)
- TOP "CUQ" MARKER
- LANGLIE MATTIX PRODUCTION ABOVE COMMITTEE LANGLIE MATTIX INTERVAL

DOYLE HARTMAN

CROSS SECTION B-B'
(NORTHWEST-SOUTHEAST)

SECTIONS 30, 31 & 32, T-24-S, R-37-E

SHOWING

LANGLIE MATTIX INTERVALS

VERT. SCALE: 1" = 100'
HORIZ SCALE: NONE

D. HARTMAN
R. STUMP

U.S.G.S. RECORDS
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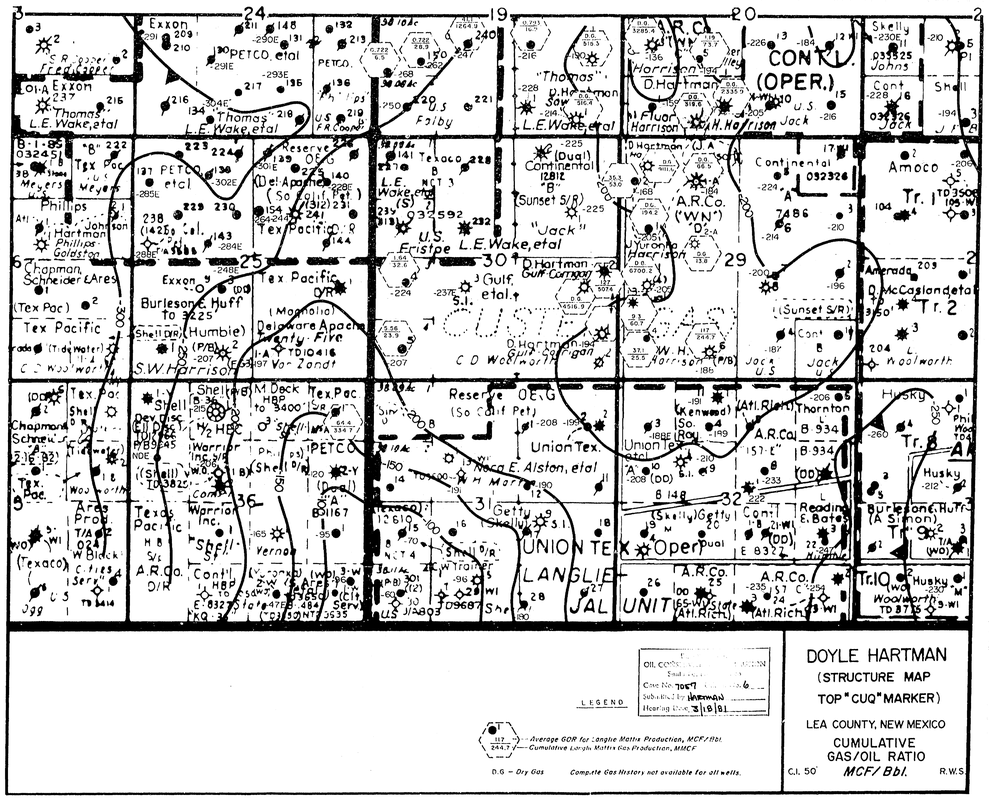
DOYLE HARTMAN
(STRUCTURE MAP
TOP "CUQ" MARKER)
LEA COUNTY, NEW MEXICO
CUMULATIVE
GAS/OIL RATIO
C.I. 50
MCF/Bbl.
R.W.S.
LEGEND
Average GOR for Langlie Mattix Production, MCF/Bbl.
Cumulative Langlie Mattix Gas Production, MMCF
D.G. – Dry Gas
Complete Gas history not available for all wells.
Case No. 7067
Hearing Date 3-18-81
CONT. (OPER.)
A.R.Co. ("WN" "D")
Continental 092326
Amoco Tr. 1
Tr. 2
Tr. 8
Tr. 9
Tr. 10
UNION TEX
LANGLIE
JAL
UNIT
Union Tex. Alston, et al
Reserve O.E.G (So. Gulf Pet.)
Texaco 12,610
Getty
Shell D/R
Husky
Thornton
Reading & Bates
Burleson & Huff (A. Simon)
Woolworth
Exxon
PETCO, etal
Thomas L.E. Wake, etal
Tex Pacific
Burleson & Huff To 3225
Delaware Apache Tenty Fire
Chapman, Schneider & Ares
Phillips
Hartman
Meyers
Johnson
Phillips Goldstar
Texaco
Area Prod.
Texas Pacific
Warrior Inc.
Shell
Cont'l
A.R.Co. D/R
Skelly
Cont
Shell
Amoco
Amerada
D. McCasland et al
Husky
Burleson & Huff (A Simon)
Tex. Pac.
M. Dock
Getty
Shell
Kenwood (So. Roy)
Union Tex.
Atl. Rich.
A.R.Co.
Reading & Bates
Cont'l
Husky
Woolworth
Thornton
Jack
U.S.
Sunset S/R
Oper
Dual
Harrison
Fluor
Yates
Mobil
Gulf
Continental
Tex Pac
Tex Pac (Tidewater)
Tex Pac (Texaco)
Tex Pac Shell
Tex Pac Shell (P/B)
Tex Pac Shell (Shell)
Tex Pac Shell (Humble)
Tex Pac Shell D/R
Tex Pac Shell (P/B)
Tex Pac Shell (Shell)
Tex Pac Shell (Shell)
Tex Pac Shell (Shell

R 35 E

R 36 E

R 37 E

T 23 S

T 24 S

LANGLIE LYNN (ON) UNIT

LANGLIE-MATTIX

JALMAT

U.S.G.S. PHOTOGRAPHS
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R 36 E

R 37 E

R 38 E

T 23 S

T 24 S

LANGLIE LYNN (ON) UNIT
CONT'L. (OP.)

LANGLIE-MATTIX

JAL-MAT

CLINE-DEVN (ABD.)

MONUMENT DRAW DEVN. (ABD.)

TEAGUE ABO.DEVN.SMPS.ELBG.

FOWLER BLBR.ORDV.PDCK.DEVN. FSLM.SMPS.ELBG.

STATELINE-ELBG.

W. DOLLARHIDE

LEA COUNTY

T 25 S

T 26 S

R 35 E

R 36 E

R 37 E

WEST JAL

CROSBY

N.M.B.M.C.P. RECORDS

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WEST JAL

DUBLIN

JUSTIS

S. LEONARD

CROSBY

RHODES

ANDREWS COUNTY

WINKLER COUNTY

R 36 E

R 37 E

T 25 S

T 26 S

I-20

BEFORE [illegible]
OIL CONSERVATION DIVISION
ARCO EXHIBIT NO. 6
CASE NO. 7657

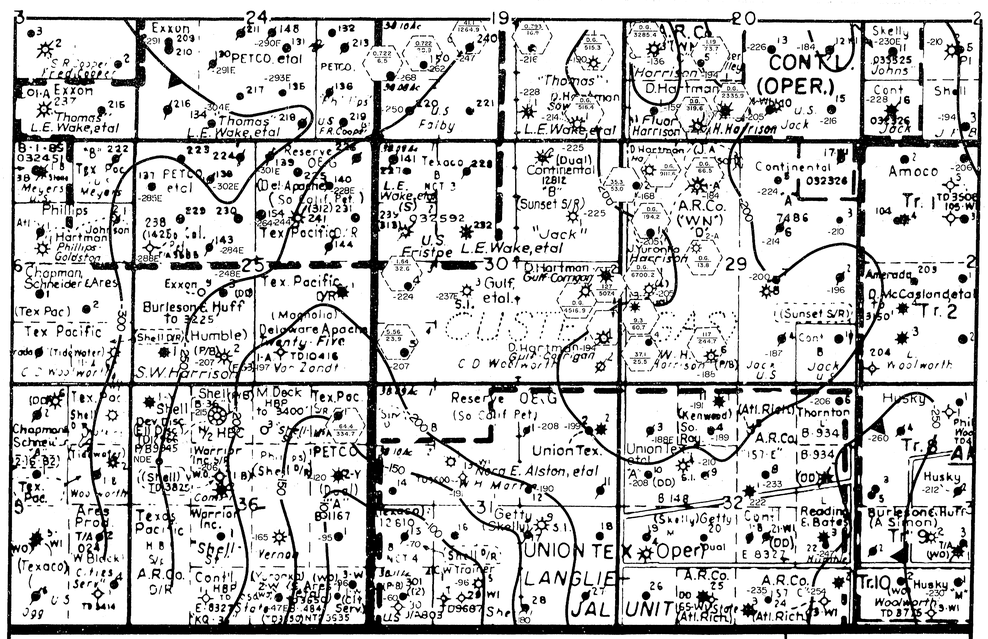
prov. data - East of Industry
Ind. data - Anderman

ARCO Oil and Gas Company
Permian District Midland, Texas

LANGLIE MATTIX & JALMAT POOLS
LEA COUNTY, NEW MEXICO

SCALE 1" = 2000'

NOT PUBLISHED



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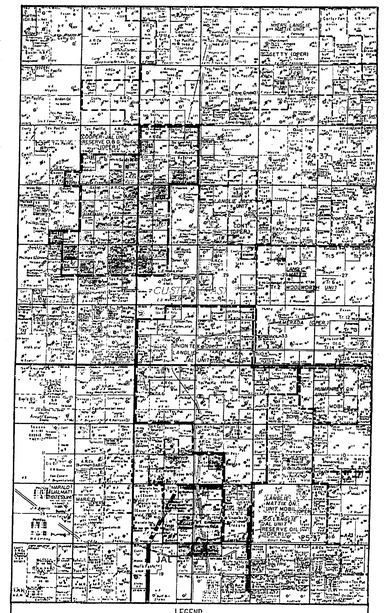

LEGEND

LANGLIE MATTIX POOL

- EXEMPT UNDER R-520, 1954
- EXEMPT UNDER R-4051, 1970
- EXEMPT UNDER R-5972
- EXEMPT UNDER R-5590, 1977
- WATER INJECTOR R-4019, 1970
- ABD. LANGLIE-MATTIX PRORATION UNITS UNDER R-520 EXEMPTION

JALMAT POOL

- EXEMPT UNDER R-5590, 1977
- EXEMPT UNDER R-520, 1954
- WATER INJECTOR R-4020, 1970

BALANCE OF WATERFLOOD UNIT AREA

EXCEPTION MAP

Field LANGLIE MATTIX & JALMAT		County LEA	State N. MEX.
Engineer W.P.A.	Drwn. By H's	Date	File DOYLE HARTMAN
RADTKE, AYCOCK & ASSOC., INC.			Ref No.
310 WALL TOWERS WEST	MIDLAND, TEXAS		EXHIBIT