

OKLAHOMA SECC ARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
8 16 17	S/2 SE SE W/2 NW NW NE NE & N/2 SE NE	Bartlesville 5013' (EAST EVANSVILLE BARTLESVILLE SAND UNIT -	WF	33425	10-24-56	8692	Phillips Petr Co.
33	Att (Except 37 A beginning SW Corner SW, E 104 rods, N 57 rods, W 104 rods, S 57 rods) SW	Chickering 4124-43' Pugged 1969 SOUTH GARDEN POOL CHECKERBOARD SAND UNIT		2923	6-22-66	24790	J. A. Chapman Unit Pugged 1969
34	(See 14N 1E Oklahoma Co)						

(66)

(W) Well Description

WF-Water Flood

GI-Gas Injection

TP-Thermal Process



LOGAN COUNTY
Twp- 15N Rge- 1E

OKLAHOMA SECC ARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
3 4	W/2 NW NE NE (See 16N-2W Logan Co)	Loyton 4445'	(EAST GUTHRIE LAKE LAYTON SAND UNIT)	46818	10-3-61	15672	Eason Oil Co

(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process



LOGAN COUNTY
Twp - 15N Rge - 2W

OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
19	W/2 SW & SE SW	Huntton 6600-7100'	GI & WF	20212 20688	7-29-47 11-28-47	1355 1586	L.A. Chudacoff, et al Allied Oil Co, et al
29	SW NW & W/2 SW & SE SW			21445	7-30-48	1841	Sohio Petr Co, et al
30	All (Except NE NE)			22247	3-31-49	2070	"(ALL REPOSITIVE UNITS)"
31	All			23416	2-28-50	2401	(See # 23416)
32	All (Except NE NE)		(WEST EDMOND HUNTON LIME UNIT)				
33	W/2 SW & SE SW & S/2 SE						
34	S/2 SW						
2	W/2 SW	Layton 5000-5105'		25614	3-8-52	3669	<i>Armstrong Engineering (70)</i> Cities Svc Oil Co, et al
3	SE		(WEST NA VINA UNIT)				
10	NE						
11	W/2 NW						
21	S/2	Hogshooter 5482-5545'		44883	3-10-61	14641	<i>Hebert & Payne (75)</i> Powel Briscoe Inc
22	S/2	Layton 5454-80'	(LOCKRIDGE HOGSHOOTER LIME UNIT)				
27	W/2		(LOCKRIDGE LAYTON SAND UNIT)				
28	E/2 & E/2 W/2	<i>#19-W 28 15N 4W terminated. has been shut in since 7-1-86. to be plugged. per 1072.</i>					
33	NE						
34	NW						
3	W/2 NW	Middle Layton 5388-5418		52485	7-25-63	18531	Ramsey Engineering Inc
4	E/2 & E/2 W/2 & SW NW			53873	12-11-63	19324	"
9	NE NW		(EAST CASHION MIDDLE LAYTON SAND UNIT)				
	(See 16N-4W Logan Co)						

(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process



LOGAN COUNTY
Twp - 15N Rge - 4W
Page 1

OKLAHOMA SECC ARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Applica- tion No.	Applicant
34	SW & W/2 SE & SE SE & S/2 NE SE SW SW SW	Lwr Skinner 4080-4150' sub-sea		36000	11-27-57	10181	The Texas Co
35	(See 15N-1W Logan Co)		(EVANSVILLE UNIT)				
1	<i>Carborec #12-23-88 - Galtway #101-3-89</i>						
11	E/2 & SW & SW NW SE NE	<i>Opinion #110-5-88</i> Cleveland 4281' <i>Opinion #312-20-88</i>	<i>Wells 1 P & A.</i>	52167	6-25-63	18321	N. Berry & Co
12	NW & NE lying & being N of Choctaw, Okla & Gulf Railroad (Abandoned) (See 16N-1E Logan Co)		<i>Wells 4</i> (SOUTH LANGSTON CLEVELAND UNIT)				
27	SE SW & SW SE N/2	Skinner 4111-4122' subsea		65654	4-21-67	26681	Unit Operations, Inc. <i>Termin...</i>
34			(NORTHWEST EVANSVILLE SKINNER SAND UNIT NO. 2)				

(67)

(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process

LOGAN COUNTY

Twp- 16N Rge- 1W



OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
6	NW SW (See 16N-1W Logan Co)	Cleveland 4281'	(SOUTH LANGSTON CLEVELAND UNIT)	52167	6-25-63	18321	T.N. Berry & Co
87	SW NE NW STARKS 87-#1	HUNTON 4950-4978'		391822	4-27-95	950006098	Redman Petroleum Corp

(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process



LOGAN COUNTY
Twp- 16N Rge- 1E

OKLAHOMA SECC ARY RECOVERY

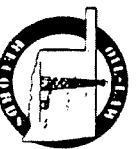
Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Applica- tion No.	Applicant
27	SW NW & SW E/2	Loyton 4445'	(EAST	46818	10-3-61	15672	Eason Oil Co
28	NE & E/2 SE		GUTHRIE				
33	W/2 & SW NE & W/2 SE		LAKE LAYTON SAND				
34	(See 15N-2W Logan County)		UNIT)				

(W) Well Description

WF-Water Flood

GI-Gas Injection

TP-Thermal Process



LOGAN

Twp- 16N

Rge- 2W

COUNTY

OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
20 29	S/2 SW N/2 NW	Skinner 5770-5850'	(NORTHEAST NAVINA SKINNER SAND UNIT)	45322	5-5-61	14726	Trice Prod Co
13	Q SW NE SW, W. C. S. 4 W. 9 #1	Skinner 5569-5582	WDF	342194	10-13-89	21106	Cherokee Prod. Co.
14	Q NW SE NW, " T. 1 #1	" 5557-5568	"	342185	"	21107	"
14	Q NE SE, " T. 7 #1	" 5547-5561	"	342196	"	21108	"
25	S/2 of S/2 of SW	SW Skiffina Skimmer Unit		362331	12-27-91	160766	Cherokee Prod. Co.
26	S/2 of S/2 of SE	(Altoona 16 N 2 W)					
35	NE						
36	N/2 + SE						
36	C SE-NW NW; SW SE 4 #2	Skinner 5602-5611	WDF	365229	5-6-92	23930	Cherokee Prod. Co.
36	C SW NE	" 5539-5546	"	365238	5-6-92	23929	"

(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process

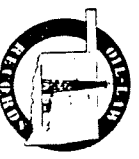


LOGAN COUNTY
Twp- 16N Rge- 3W

OKLAHOMA SECC ARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Applica- tion No.	Applicant
33	SE SW & NW SE & S/2 SE	Middle Layton 5388-5418'		52485	7-25-63	18531	Ramsey Engineering Inc
34	SW SW (See 15N-4W Logan Co)		(EAST CASHION MIDDLE LAYTON SAND UNIT)	53873 (Correction Order)	12-11-63	19324	"

(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process



LOGAN COUNTY
Twp- 16N Rge- 4W

SECONDARY RECOVERY

WELL RECORD

Sec.	Well Description	Formation & Depths	Order No.	Date	Application No.	Applicant
5	SE SW + SW SE	W. Sampson Bartlesville No. 80 1/2	318756	11-9-87	189853	Test Oil Co.
8	NE SE	" " " "	"	"	"	" " "
9	NE, W/2 NE, N/2 SW	" " " "	"	"	"	" " "
9	W/2 SW #13-1	Repermitted by #3416871	"	"	"	" " "
9	W/2 SW #7-1	Repermitted by #3416873	323720	3-29-88	19567	Test Oil Co.
9	W/2 SW #1-2	Repermitted by #3416873	324031	4-4-88	19505	" " "
9	W/2 SW #1-2	Repermitted by #3416873	324032	"	19506	" " "
8	W/2 SW #5-1	Repermitted by #3416873	324033	"	19507	" " "
5	W/2 SW #1-1	Repermitted by #3416874	324034	"	19533	" " "
17	W/2 SW #1	Gayton 4782-4798	351399	10-30-90	22346	" " "
9	W/2 SW #8-2	Bartlesville 5148-5162	351618	11-7-90	223	" " "
13	W/2 SW #12	Gayton 4701-4723	371704	2-9-92	24185	" " "
8	W/2 SW #4-3	Bartlesville 5183-5198	386711	10-3-94	94000842	" " "
8	W/2 SW #3-1 (Howland #1)	Bartlesville 5132-5138	415394	8-25-97	970000286	" " "
8	W/2 SW #4-4	" " " "	415720	9-5-97	970000281	" " "
5	W/2 SW #2-1	" " " "	415719	9-5-97	970000279	" " "

SMITHWEST ROYALTIES INC. 9/3/93

Small

10/1/94

10/1/94

10/1/94

OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
12	E/2 (See 17N-1W Logan Co)	Bartlesville 5055'	(GUTHRIE UNIT)	51522	4-11-63	18109	Sunray DX Oil Co
12	# 6-2	Bartlesville	157,315	1109072	6-21-63	18418	Victory
12	# 6-4	Bartlesville	157,317	158315	12-4-74		Conoco Inc.
12	# 6-3	Bartlesville	46-V	159066	9-7-79		
					10-19-79		SMURFY'S OILFIELD SERVICE
5	line ne SE, Bennett #1	Bartlesville + Moor. 5345-5646	WF	358083	6-25-91	23094	C.C. McMillin & Co. Inc.

Must be well terminated.

5/1/93



Enhanced Recovery

SALT WATER DISPOSAL WELL RECORD

Well Description	Formations & Depths	Order No.	Date	Application No.	Applicant
NW-SW-SE	Plugged & 14-82 (1003 ft. l.d.) Tehama 4030' - 4060'	26041	7-7-52	3957	W. O. Ward Davon Oil Company 0186
SE SE NE	Pawhuska Lime 2707' to 2715'	67642	12-7-67	3723	Entex Big Chief Drilling Company
NW SW	Oswego Sand 5354' - 5374' (Amended) Blown-Chambers #2 Oswego Sand 5389' - 5399'	81123 79493	7-17-70) 3-26-70	4430	Big Chief Drilg. Co. (Int.)
C NW SE	(Pressure test) (Amends Order #85805) Clay #1 Oswego Sand 5266' - 5277'	85805	7-21-71	5315	Big Chief Drilg. (Int.)
C NW NE	Oswego Sand 5266' - 5277'	90406	4-17-72	5893	Chieftain Pet., Inc. (Int.)
SE SE NW	Wilcox-Sand-6095'-6098'	91278	6-2-72	PD 5996	Plugged Davon Drilg. Co. (Disp.)
SE NW NW	Hoover Sand 2811' - 2898'	214856	5-3-82	PD 11669	Entex Petroleum, Inc.
Brown #1 SE SE NE	Pawhuska Lime (2707-2715)	236010	3-8-83	PD 12889	Entex Petroleum Inc.
NE NW	W. LARIE Oswego Lime at Oswego Lime 5300-5400	79250	3-5-70	31829	Entex Petroleum Inc.
Buehler #2-19	Jayton 4822-4840	332765	11-23-88	20165	Bobby T. Russell
NE SE NE	Jayton 4779-4800	332764	11	20164	" " "
NE NW SE	Jayton 4851-4859	332763	11	20162	" " "
Branson #2	11 4806-4816	332762	11	20163	" " "
Branson #1	Jayton 4780-4806	358809	7-23-91	22341	Bobby T. Russell
TEHAMA #1					
SE NE NW					

Twp- 17N

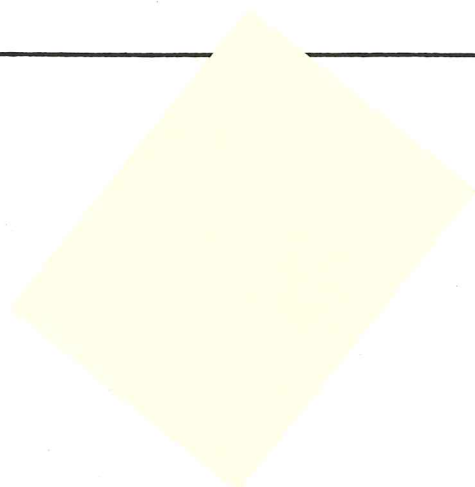
Range-3W

LOGAN

County

OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Applica- -tion No.	Applicant
22	C SW SW (W)	Layton 4900'	WF	18968	6-4-46	1197	Davon Oil Co.
22	NE & N/2 SE	Layton 5000'	WF	26809	2-25-53	4446	Pet. of Midland Cooperative Wholesale, et al
23	NW & N/2 SW	(CRESCENT FIELD LAYTON SAND UNIT - C) (MIDLAND COOPERATIVE WHOLESALE - OPERATOR)					
3	NW & W/2 SW	Layton 4945' (SECOND CRESCENT LAYTON SAND UNIT - G) (MIDLAND COOPERATIVES, INC. - OPERATOR)	WF	38285	1-10-58	10220	Midland Cooperatives, Inc. Logan Co 1-75
4	E/2 E/2						
9	E/2 E/2						
10	W/2 NW & SE NW & SW NE & S/2						
11	NW SE & N/2 SW & SW SW						
14	SE NW & S/2						
15	N/2 N/2 & SE NE & SE & SE SW						
16	NE NE						
22	NW & S/2 SE & N/2 SW & SE SW						
23	NE & W/2 SE & S/2 SW						
25	NW SW						
26	N/2 & N/2 SE & SW SE & N/2 SW & SE SW						
27	E/2 & E/2 W/2 & SW SW						
34	N/2 NW (See 18N-4W, Logan Co)						



(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process

LOGAN COUNTY

Twp- 17N Rge- 4W



OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Injection		Order No.	Date	Type Order	Applicant
			Begin	End				
4	NW NE & NE NW	Viola Dolomite Layton NORTHWEST CRESCENT UNIT	10-30-73	9/16/73	97235 CD 36500	4-26-73	16 WF	Cotton Petroleum P.O. # 549
19	NW NE SE; Eim #2	Hayden 5242-5260		PD 4/5/66	375261	7-16-93		Front Range Oil Field

Order Types: 15A - Waterflood
 15B - Gas Injection
 15C - Other

15D - Increased Allowable
 15E - Extensions

OKLAHOMA

NDAIRY RECOVERY

Sec.	Area and/or Well Description	Formation and Depth	Type of Project	Order No.	Date	Application No.	Applicant
14, 15	(Vacate Order #251051)	South Mulhall Misener Unit		251051	12-30-83	101617	Bonray Energy Corp.
14	SW NW 1/4 SW	S. Mulhall Misener Unit	Unit	302812 302812	9-11-86	134135 302812	Bonray Energy Corp.
15	SE NW, S/2 NE, N/2 SE, NE SW and N/2 SE SW			304758	10-28-86	18014	Bonray Energy Corp.
14	SW NW, S. M. M. U. #3	Misener 5608-5621	WF	304759	"	18015	"
14	SUSW, S. M. M. U. #9	" 5646-5664	"	304757	"	18013	"
15	NE SW, S. M. M. U. #8	" 5679-5693	"	304756	"	18011	"
15	SW NE, S. M. M. U. #1	" 5643-5652	"	301842	12-19-86	18091	Bonray Energy Corp.
14	NW NE SW, #3 S. Mulhall Misener Unit #4	Except to Rule 3-206b + 3-304		307137	12-29-86	18012	Bonray Energy Corp.
15	NE SW, S. Mulhall Misener Unit #11	Misener 5612-5618	WF	317517	10-2-87	18954	Bonray Energy Corp.
15	NE SE, S. M. M. U. #6	Misener 5679-5693	WF	319247	11-23-87	19153	Bonray Energy Corp.
23	213 NW 1/4, Ringlet #1	Misener 5676-5684	WF	3291659	8-26-88	19948	Bonray Energy Corp.

County Deer
Twp N 81 Rge 2W

OKLAHOMA SECTIONARY RECOVERY

Sec.	and/or Well Description	Formation & Depth	Interval		Order No.	Date	Type Order	Applic
			Begin	End				
19	SM N/2 & SM (See 18N-5W - Kingfisher)	Oswego EAST COLUMBIA OSWEGO LIME UNIT			86881 CD 33976	9-30-71	WF Unit	Tenneco Oil Co.
30	NE SE NW ECOLU #12-2	Oswego Sand 5821'-5839'			217241	5-28-82	WF	Tenneco Oil Company
12	NWSW NW; Brand #1	Middle Devonian 4710 4738			369959	11-25-92	WF	D+T Oil Co., Inc
14	NW NE NE; Hausenbick #1	Middle Devonian 4825 4835			373784	5-6-93	WF	D+T Oil Co., Inc

Order Types: 15A - Waterflood
15B - Gas Injection
15C - Other

15D - Increased Allowable
15E - Extensions

Logan COUNTY
TWP - 18N Rge - 4W

OKLAHOMA SECTIONARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Injection		Order No.	Date	Type Order	Applicant
			Begin	End				
33	S/2 & S/2 NW & SW NE (See 17N-4W)	Viola Dolomite Layton NORTHWEST CRESCENT UNIT	10-30-73 11/11/99	10-17- CD 36500	097235	4-26-73	16 WF	Cotton Petroleum Corp.
14	NWNE NE; Haverstick #1	Madallapayton 4810-4825			373784	5-6-93	WF	OTI Oil Company

Order Types: 15A - Waterflood
15B - Gas Injection
15C - Other

15D - Increased Allowable
15E - Extensions
16 - Utilization

Logan COUNTY

Twp - 18N Rge - 4W

OKLAHOMA SECO ARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Applica- tion No.	Applicant
21	SE NW & SW NE & S/2	Upper Layton <i>Disolved</i>	WF	351069	11-17-55	7438	Okl. Natural Gas Co., et al
22	NW SW & S/2 SW	3550'-3720'					
27	W/2 NW & NW SW	(SOUTH LOVELL UPPER LAYTON SAND UNIT - C)					
28	NW NW & E/2 NW & NE & NE SE	(BIG CHIEF DRILLING COMPANY - OPERATOR)					
16	NE	First Layton 4653'-4659'	WF	33576	11-9-56	8758	Big Chief Drlg. Co.
33	SE SE	Layton 4945'	WF	36285	1-10-58	10220	Midland Cooperatives, Inc.
34	SE SW (See 17N-4W, Logan Co)	(SECOND CRESCENT LAYTON SAND UNIT - C) (MIDLAND COOPERATIVES, INC. - OPERATOR)					
9	SE	Middle Layton 3777-	WF	36797	4-7-58	10642	Big Chief Drilling Co
10	SW	3799' subsea					
15	NW	(NORTH LOVELL FIELD MIDDLE LAYTON SAND UNIT - C)					
16	NE NE	(BIG CHIEF DRILLING COMPANY - OPERATOR)					
25	SW SE & E/2 SE	Layton 4700'	WF	37471	7-24-58	11009	Phillips Petroleum Co
36	SE NW & NE & NE SW (See 18N-3W, Logan Co)	(SOUTHEAST LOVELL LAYTON SAND UNIT - C) (PHILLIPS PETROLEUM COMPANY - OPERATOR)					
14	MORRISON #1 SE NW SE	Tonkawa 3690-3740		370479	12-16-92	24380	DTS oil Co.
1	w/a SW	Hull Baypen Sand Unit		368308	9-11-92	1163999	DTS oil Co.
2	SE						
11	E/2						
12	w/a SW						
13	w/a NW + NW SW						
17	E/2						

(W) Well Description WF-Water Flood GI-Gas Injection TP-Thermal Process LOGAN COUNTY

Twp- 18N Rge- 4W



OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
3 5	W/2 W/2 NE S.L. W. U. # 31 NE NE NE	Skinner 4830' Cleveland 44-76-4532	WF Pilot Flood	46128 399198	7-19-61 2-2-96	15419 950000802	Cooperative Ref Assn U.M.C. Petrol. Corp.

(W) Well Description

WF-Water Flood

GI-Gas Injection

TP-Thermal Process



LOGAN COUNTY
Twp- 19N Rge- 2W

OKLAHOMA SECONDARY RECOVERY

Sec.	Area and/or Well Description	Formation & Depth	Type Project	Order No.	Date	Application No.	Applicant
30	SW	Willcox 5950'	WF	32140 33827 44097 <i>excess allowable</i>	4-3-56 12-19-56	8053 8935	Baham & Baham <i>L16N</i> E. R. Baham <i>Postn.</i> 1971 " "
- C O M P L I M E N T A R Y C O P Y -							
NOT TO BE REPRODUCED							
Oil-Law Records Corporation Oklahoma City, Oklahoma							

(W) Well Description WF--Water Flood GI--Gas Injection TP--Thermal Process

LOGAN COUNTY

Twp-- 19N Rge-- 4W



