

DEC 27 2004

STATE OF KANSAS  
STATE CORPORATION COMMISSION  
130 S. Market, Room 2078  
Wichita, KS 67202

WELL PLUGGING RECORD  
K.A.R.-62-3-117

API NUMBER 15-129-20417-00-01

LEASE NAME Harrison

WELL NUMBER A1-12

1980 Ft. from S Section Line

660 Ft. from E Section Line

SEC. 12 TWP. 32 RGE. 42 (E) or (W)

COUNTY MORTON

Date Well Completed 3/25/1980

Plugging Commenced 12/6/2004

Plugging Completed 12/9/2004

TYPE OR PRINT  
NOTICE: Fill out completely  
and return to Cons. Div.  
office within 30 days.

LEASE OPERATOR DUKE ENERGY FIELD SERVICES, L.P.

ADDRESS 6120 S. YALE, SUITE 1100 TULSA, OK

PHONE: (918) 492-3331 OPERATORS LICENSE NO. 32782

Character of Well GAS STORAGE

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

The plugging proposal was approved on 5/3/2004 (date)

by S. DURRANT (KCC District Agent's Name).

Is ACO-1 filed? YES If not, is well log attached? \_\_\_\_\_

Producing Formation KEYES Depth to Top 5106 Bottom 5118 T.D. 5350

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put in	Pulled out
PERMIAN	FRESH WATER	200	400	8 3/8"	1486	-0-
KEYES	GAS	5106	5118	4 1/2"	5350	1750

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plug were used, state the character of same and depth placed, from \_\_\_ feet to \_\_\_ feet each set.  
PLUGGED AS PER KCC REQUIREMENTS

SEE ATTACHMENT

Name of Plugging Contractor EAGLE WELL SERVICE, INC License No. 7407

Address P.O. BOX 1597 LIBERAL, KS 67905-1597

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: DUKE ENERGY FIELD SERVICES, L.P.

STATE OF OKLAHOMA COUNTY OF TULSA, ss.

Paul Brewer

(Employee of Operator) or (Operator) of

above-described well, being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained and the log of the above-described well as filed the the same are true and correct, so help me God.

(Signature) Paul Brewer

(Address) 6120 S. Yale Ave, Ste 1100, Tulsa, OK 74136

SUBSCRIBED AND SWORN TO before me this 22nd day of December, 2004

Arlene D. Powell  
Notary Public

My Commission Expires: Aug. 31, 2007



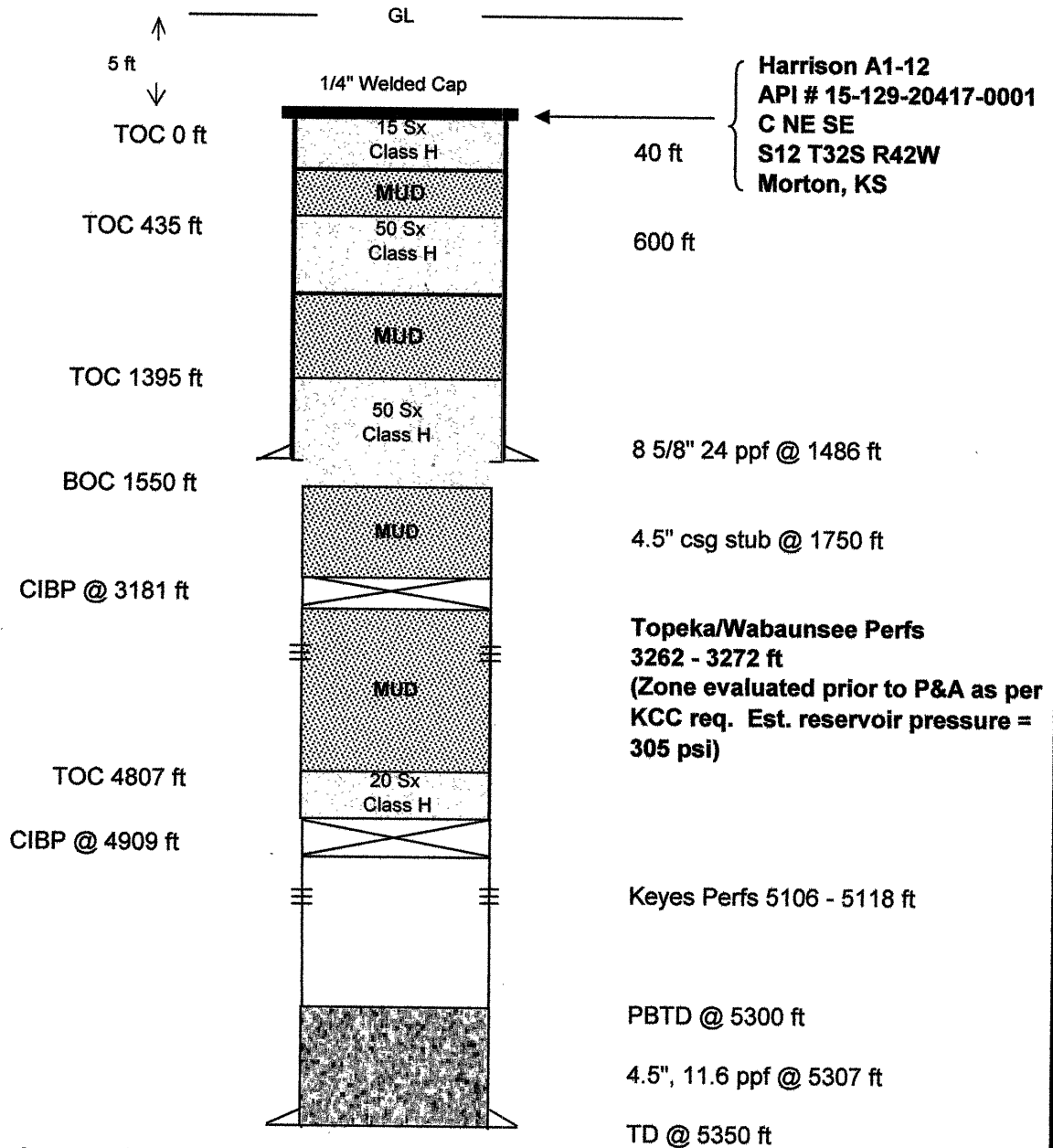
*Bum*

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CONSERVATION DIVISION  
WICHITA, KS

Duke Energy Field Services

Plug and Abandonment Schematic



Plug and Abandonment Details:

Date Well Completed: March 25, 1980  
 Plugging Commenced: December 6, 2004  
 Plugging Completed: December 9, 2004

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CONSERVATION DIVISION  
WICHITA, KS

Interoffice Correspondence

**Duke Energy Field Services**

To: P. A. Moldenhauer

Date: December 20, 2004

From: R. E. Bentley *REB*

Re: Topeka / Wabaunsee Test results in the Harrison A1-12

On December 7, 2004, at the direction of the Underground Porosity Gas Storage Division of the Kansas Corporation Commission, DEFS perforated and evaluated a Topeka / Wabaunsee zone in its Harrison A1-12 (S12-T32S-R42W) Richfield Storage well. The objective of the test was to determine whether storage gas in the Keyes reservoir (5106 ft – 5118 ft) had leaked into and over pressured the Topeka / Wabaunsee zone at 3262 ft – 3272 ft.

**Background**

Well research was done in the area to determine the range of normal reservoir operating pressures at the 3200 ft level, and one record (#1 Elder in S28-31S-42W) showed test results from a 1978 DST of 459 psi (ISIP). This formed the basis for the testing strategy that was agreed to between DEFS and the KCC prior to perforating. Namely, if shut in pressures in excess of 500 psi were discovered in the Topeka / Wabaunsee zone, the high pressure could indicate leakage from the storage operation, and a remedy would be sought to return the zone to native pressure again.

**Operation**

The 10 ft zone at 3262 ft – 3272 ft was perforated using Weatherford wireline's 4spf, 0 degree phasing Shogun stripgun through 2 3/8" tubing, and using a 3000 psi lubricator and grease injection system. The wireline operation recorded a top of fluid level in the well at approximately 2650 ft (or 612 ft of fluid above the top perforation). This represents a hydrostatic pressure of approximately 265 psi. Immediately after perforating, a surface pressure of 40 psi was noted on a gauge at the surface below the TIW valve. Adding the hydrostatic and surface shut in pressure together yields a reservoir shut in pressure of approximately 305 psi.

**Conclusion**

With an Instantaneous Shut In Pressure (ISIP) of 305 psi measured for the Topeka / Wabaunsee zone, it was assumed that no storage gas had leaked into the zone or caused any over pressuring of the reservoir. Mr. Dan Fredlund of the KCC witnessed the operation and was satisfied that DEFS adequately tested the zone and gave permission to continue plugging and abandoning the well. Final P&A operations were concluded on December 12, 2004.

# GREENWOOD GAS AREA - MORTON COUNTY, KANSAS

OPERATOR	WELL NAME	NO	API	SEC	TWP	RNG	RESERVOIR	TPERF	BPERF	GATH	DOFP	DOLP	CUM Mcf	200401
OXY USA INC	NORTHWST FLAT 3			18	35S	42W	UNKNOWN	0	0		198701	199009	25,408	0
OXY USA INC	NORTHWST FLAT 4			18	35S	42W	UNKNOWN	0	0		198701	199009	5,578	0
OXY USA INC	NORTHWST FLAT 5			19	35S	42W	UNKNOWN	0	0		198701	199009	5,215	0
PANHANDLE EASTERN	RILEY 26			27	35S	42W	MORROW	0	0		196407	0	0	0
PANHANDLE EASTERN	AMERICAN	1	15129104590000	10	35S	43W	TOPEKA	2879	3003		195511	197710	3,262,326	0
PANHANDLE EASTERN	LEEWE	1	15129105310000	3	35S	43W	TOPEKA	0	0		195803	196409	95,978	0
PANHANDLE EASTERN	OBERLEY	1	15129000070000	3	34S	43W	TOPEKA	0	0		195507	196504	1,152,784	0
PANHANDLE EASTERN	RILEY	B1	15129105520000	15	34S	42W	TOPEKA	2893	3071		195507	197608	5,393,996	0
RME PET	BITNER	1	15129100140000	29	31S	42W	TOPEKA	0	0		195905	196308	108,168	0
SEARS H F	WALSH	1	15129105780000	25	33S	42W	TOPEKA	0	0		195411	0	7,854	0
SUERTE OIL COMPANY	HINES A W	1	15129101540000	10	32S	42W	TOPEKA	2802	3206		196101	199510	306,809	0
SUPERIOR OIL CO	MARTIN	1	15129101680000	35	31S	42W	WABAUNSEE	0	0		195606	0	128,322	0
THOMPSON CATTLE CO	THOMPSON	1	15129203850000	8	32S	43W	TOPEKA	3156	3295	REGMG	197912	200406	136,153	12
TITAN OIL & GAS COMPANY	MINOR	1A	15129102100000	24	33S	42W	TOPEKA	0	0		196202	197501	177,531	0
WESTPORT OIL & GAS CO	CENTRAL LIFE	1	15129004900000	15	35S	42W	TOPEKA	2992	3056	ASSNG	196702	200407	1,078,851	1,411
WHEELER OIL CO	CYR UNIT		15129212630000	2	35S	42W	MORROW	0	0		199403	200302	0	0
WILSON CHARLES B JR INC	WALSH	1	15129201290000	29	33S	41W	WABAUNSEE	2952	2956		197405	197511	18,826	0
XTO ENERGY INCORPORATED	SMITH J 1	1	15129101710000	25	32S	43W	TOPEKA	2968	3226	REGMG	195510	200407	3,820,876	2,521
XTO ENERGY INCORPORATED	SMITH J 1-B	B1	15129101700000	24	32S	43W	TOPEKA	2920	3248	REGMG	195510	200407	2,387,479	1,196
XTO ENERGY INCORPORATED	SMITH J 1-C	C1	15129101720000	30	32S	42W	TOPEKA	2901	3220	REGMG	195510	200407	4,360,173	1,954

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OPERATOR	WELL NAME	NO	API	SEC	TWP	RNG	RESERVOIR	TPERF	BPERF	GATH	DOFP	DOLP	CUM Mcf	200401
OXY USA INC	FRAZIER	1 A	15129102560000	3	33S	42W	TOPEKA	2924	3132	OXUSA	195304	200407	2,331,489	1,280
OXY USA INC	GLENN 1-A	A1	15129102600000	1	33S	43W	TOPEKA	2922	3292	OXUSA	195403	200407	5,522,235	2,580
OXY USA INC	GODDARD 1-D	D1	15129102610000	27	33S	42W	TOPEKA	2930	3090	OXUSA	195401	200407	10,427,065	4,775
OXY USA INC	HALL 1-S	S1	15129100180000	34	32S	42W	TOPEKA	3028	3160	OXUSA	195604	200407	2,708,180	1,355
OXY USA INC	HAYWARD	2 D	15129001000000	17	35S	41W	TOPEKA	3184	3335	OXUSA	196204	200407	9,529,180	2,419
OXY USA INC	HAYWARD 1-E	E1	15129102720000	12	33S	43W	TOPEKA	2938	3228	OXUSA	195512	200407	3,392,538	5,902
OXY USA INC	HAYWARD C	2	15129102730000	16	35S	41W	TOPEKA	3245	3284	OXUSA	196309	200407	1,085,417	592
OXY USA INC	HAYWARD C		15129102730000	16	35S	41W	TOPEKA	0	0		197606	200403	0	0
OXY USA INC	HAYWARD D		15129001000000	17	35S	41W	TOPEKA	0	0		196306	200204	0	0
OXY USA INC	HENTSCHEL A	1 A	15129102750000	22	33S	42W	TOPEKA	2932	3252	OXUSA	195309	200407	6,952,980	3,550
OXY USA INC	HERMAN	A1	15129102760000	1	33S	42W	TOPEKA	0	0		195211	196311	110,610	0
OXY USA INC	HOWARD	2 C		9	35S	41W	TOPEKA	2260	2346	ANADP	196303	200407	881,907	434
OXY USA INC	HUMBLE	1 A	15129102870000	4	33S	43W	TOPEKA	2942	3292	OXUSA	195304	200407	5,143,863	735
OXY USA INC	INTERSTATE 1-D	D1	15129102880000	7	34S	42W	TOPEKA	2772	3068	OXUSA	195401	200407	1,551,742	1,666
OXY USA INC	KANSAS	1	15129105210000	13	34S	43W	TOPEKA	0	0	OXUSA	195509	200407	798,697	51
OXY USA INC	KIBBE	1	15129004320000	1	34S	42W	TOPEKA	0	0	ANADP	195811	200407	6,009,151	2,990
OXY USA INC	KNOEBER 1-A	A1	15129100190000	33	32S	42W	TOPEKA	2932	3108	OXUSA	195606	200407	1,365,367	3,440
OXY USA INC	LIGHT B	1	15129102900000	5	33S	43W	TOPEKA	2960	3254	OXUSA	195310	200407	1,654,389	56
OXY USA INC	MCCLUNG 1-A	1A	15129102910000	7	35S	41W	TOPEKA	3158	3290	OXUSA	196108	200407	2,768,128	1,362
OXY USA INC	MILLER	1 R	15129102940000	8	33S	42W	TOPEKA	2866	3198	OXUSA	195304	200407	8,928,222	8,881
OXY USA INC	MONGONE 1-C	C1	15129103030000	35	33S	42W	TOPEKA	2848	3126	OXUSA	195605	200407	5,443,561	4,485
OXY USA INC	OBERLEY	1 A	15129100260000	32	32S	43W	TOPEKA	2938	3084	OXUSA	195406	200407	6,499,251	1,764
OXY USA INC	PEARSON	C 2	15129206750001	32	34S	41W	TOPEKA	3121	3258	OXUSA	198910	200407	520,578	1,035
OXY USA INC	PERKINS	1 A	15129103070000	32	33S	42W	TOPEKA	2826	2966	OXUSA	195305	200407	7,785,930	5,597
OXY USA INC	ROWLAND	1 B	15129004730000	8	35S	41W	TOPEKA	3177	3276	OXUSA	196108	200407	7,458,887	3,531
OXY USA INC	SANTA FE	1 B	15129103230000	23	33S	43W	TOPEKA	2904	3107	OXUSA	195308	200407	2,362,491	2,137
OXY USA INC	SANTA FE	1 A	15129103220000	26	33S	43W	TOPEKA	2920	3037	OXUSA	195307	200407	1,105,760	418
OXY USA INC	SANTA FE 1-C	C1	15129103240000	16	34S	42W	TOPEKA	2820	3100	OXUSA	195408	200407	8,348,762	5,437
OXY USA INC	SANTA FE 1-D	D1	15129100270000	33	32S	43W	TOPEKA	2906	3244	OXUSA	195510	200407	1,528,347	613
OXY USA INC	SANTA FE 1-E	E1	15129100280000	26	32S	43W	TOPEKA	2904	3102	OXUSA	195503	200407	6,339,293	1,848
OXY USA INC	SHARP	C1	15129001110000	20	33S	43W	TOPEKA	0	0		195302	0	310,824	0
OXY USA INC	SMITH	1 O	15129001140000	20	33S	42W	TOPEKA	2906	3222	OXUSA	195212	200407	11,547,079	10,092
OXY USA INC	SMITH 1-R	R1	15129100290000	36	32S	43W	TOPEKA	2880	3202	OXUSA	195503	200407	7,551,827	2,668
OXY USA INC	STEWART	1	15129000620000	29	34S	41W	TOPEKA	4802	4822	OXUSA	196104	200302	3,435,469	0
OXY USA INC	TUCKER 1	1	15129103750000	14	34S	42W	TOPEKA	0	0	ANADP	195604	200407	3,848,169	4,497
OXY USA INC	WALSH 1-B	B1	15129103390000	25	33S	42W	TOPEKA	3088	3205	OXUSA	196105	200407	716,325	406
OXY USA INC	WHITE B	1	15129103420000	28	33S	42W	TOPEKA	2916	3210	OXUSA	195304	200407	8,842,173	7,948
OXY USA INC	WILLIAMS 1-C	C1	15129103450000	29	33S	43W	TOPEKA	2900	3052	OXUSA	195411	200407	2,442,742	940
OXY USA INC	WINTER	1 B	15129103460000	4	33S	42W	TOPEKA	2938	3258	OXUSA	195303	200407	9,826,236	6,352
OXY USA INC	WITCHER 1-A	A1	15129100080000	27	32S	43W	TOPEKA	2856	3052	OXUSA	195505	200407	6,185,094	1,886
OXY USA INC	WITCHER 1-B	B1	15129100090000	28	32S	43W	TOPEKA	0	0	OXUSA	195505	200407	3,191,747	1,176

WICHITA, KS  
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**GREENWOOD GAS AREA - MORTON COUNTY, KANSAS**

OPERATOR	WELL NAME	NO	API	SEC	TWP	RNG	RESERVOIR	TPERF	BPERF	GATH	DOFP	DOLP	CUM Mcf	200401
OXY USA INC	BURNS B		15129102400000	3	35S	42W	KEYES	0	0		195604	0	0	0
OXY USA INC	BURNS B		15129102400000	3	35S	42W	KEYES	0	0		196209	0	0	0
OXY USA INC	DENNY 1-A	A1	15129102500000	10	33S	43W	KSSC-LNSG	2908	3210	OXUSA	195505	200407	3,077,105	2,565
OXY USA INC	HART	1 A	15129001120000	22	33S	43W	KSSC-LNSG	2906	3050	OXUSA	195302	200407	1,402,962	2,765
OXY USA INC	SMITH	1 P	15129103270000	11	33S	43W	KSSC-LNSG	2850	3184	OXUSA	195304	200407	11,744,999	4,185
OXY USA INC	SOUISET	1 B	15129103280000	3	33S	43W	KSSC-LNSG	2922	3204	OXUSA	195303	200407	8,024,392	8,710
OXY USA INC	SOUISET	1 A	15129001130000	2	33S	43W	KSSC-LNSG	2906	3263	OXUSA	195303	200407	7,209,899	8,864
OXY USA INC	MILLER	1 S	15129102950000	25	33S	43W	KSSC-LNSG-SHWN	2847	2896	OXUSA	195307	200106	3,975,686	0
OXY USA INC	WINTER	1 C	15129103470000	30	33S	42W	KSSC-LNSG-SHWN	0	0	OXUSA	195304	200407	7,071,711	10,760
OXY USA INC	SANTA FE		15129103240000	16	34S	42W	LANSING & TOPEKA	0	0		199109	199906	0	0
OXY USA INC	GREENWOOD		15129001180001	14	33S	42W	MORROW	0	0		195405	0	0	0
OXY USA INC	GREENWOOD		15129102680000	15	33S	42W	MORROW	0	0		195405	197112	0	0
OXY USA INC	GROVES A		15129102690000	3	35S	41W	MORROW	0	0		196707	200009	0	0
OXY USA INC	KEPNER A 12		15129102890000	23	33S	42W	MORROW	0	0		195403	197306	0	0
OXY USA INC	MONGONE D			26	33S	42W	MORROW	0	0		195802	197310	0	0
OXY USA INC	MONGONE E		15129103040000	26	33S	42W	MORROW	0	0		196109	197310	0	0
OXY USA INC	SANTA FE 1 F		15129103250000	23	33S	42W	MORROW	0	0		195912	197202	0	0
OXY USA INC	WACKER B			10	34S	42W	MORROW	0	0		195801	0	0	0
OXY USA INC	WHITE C		15129213770000	28	33S	42W	MORROW	0	0		199601	200112	0	0
OXY USA INC	STEWART	A1 UT	15129000620000	29	34S	41W	MORROW & TOPEKA	0	0	OXUSA	198910	200308	107,402	0
OXY USA INC	WINTER F		15129216800000	4	33S	42W	MORROW UPPER	0	0		200207	200407	0	0
OXY USA INC	WINTER F	1	15129216800000	4	33S	42W	MORROW UPPER	0	0	OXUSA	200208	200407	54,176	1,452
OXY USA INC	GLENN A-2	2	15129212820000	1	33S	43W	MORROWAN	4621	4632	OXUSA	199410	200407	1,030,742	1,086
OXY USA INC	STEWART	C1	15129103300000	29	34S	41W	MORROWAN	4744	4752		196408	198301	1,155,568	0
OXY USA INC	STEWART A	1LT	15129103310000	29	34S	41W	MORROWAN	0	0		196005	196602	656,346	0
OXY USA INC	BURNETT	1 A	15129102390000	19	33S	43W	SHAWNEE	3062	3090	OXUSA	195605	200407	2,064,151	533
OXY USA INC	ADDINGTON 1-A	1	15129100210000	31	32S	43W	TOPEKA	2958	3074	OXUSA	195711	200407	1,622,570	649
OXY USA INC	ALLEN 1-B	B1	15129100170000	34	32S	43W	TOPEKA	2897	3090	OXUSA	195603	200407	2,516,877	915
OXY USA INC	AUSTIN	1 A	15129001150000	9	33S	42W	TOPEKA	2908	3208	OXUSA	195302	200407	9,339,370	4,249
OXY USA INC	BARE	1 A	15129102300000	9	33S	43W	TOPEKA	2922	3040	OXUSA	195311	200407	2,830,996	2,796
OXY USA INC	BAUGHMAN	1 N	15129102320000	16	33S	42W	TOPEKA	2904	3226	OXUSA	195303	200407	6,969,470	7,138
OXY USA INC	BAUGHMAN	1 O	15129102330000	19	33S	42W	TOPEKA	2918	3296	OXUSA	195303	200407	4,438,641	3,136
OXY USA INC	BLOUT	1	15129202070000	33	33S	43W	TOPEKA	2932	3208	CIGFL	197602	200304	433,782	0
OXY USA INC	BRADSHAW	1 A	15129102350000	21	33S	43W	TOPEKA	2952	3070	OXUSA	195308	200407	1,174,904	316
OXY USA INC	BROWN 1-E	E1	15129100000000	35	32S	43W	TOPEKA	2900	3236	OXUSA	195506	200407	10,510,178	5,100
OXY USA INC	BROWN F	2	15129203210003	24	34S	42W	TOPEKA	0	0	OXUSA	200402	200407	15,086	0
OXY USA INC	DEAN 1-A	A1	15129301390000	31	31S	43W	TOPEKA	3174	3264	OXUSA	195607	200407	2,918,441	1,364
OXY USA INC	DROSSELM	1 A	15129102920000	21	33S	42W	TOPEKA	0	0	OXUSA	195302	200407	7,487,062	6,218
OXY USA INC	ELLIS	1 B	15129102530000	17	33S	42W	TOPEKA	2886	3210	OXUSA	195305	200407	8,220,270	12,952
OXY USA INC	FLETCHER	1 C	15129102550000	27	33S	43W	TOPEKA	0	0		195304	196901	840,453	0
OXY USA INC	FLETCHER	D1	15129101830000	34	33S	43W	TOPEKA	0	0		195503	196512	261,240	0

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**GREENWOOD GAS AREA - MORTON COUNTY, KANSAS**

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OPERATOR	WELL NAME	NO	API	SEC	TWP	RNG	RESERVOIR	TPERF	BPERF	GATH	DOFP	DOLP	CUM Mcf	200401
MUSTANG DRILLING & EXPL	CLANCY 1-A	A1	15129100960000	28	31S	42W	TOPEKA	2728	3092	REGMG	195712	200407	2,476,823	1,893
NADEL & GUSSMAN	K.U. 2-2	2 2	15129214000000	2	32S	43W	GREENWOOD	2056	3097	REGMG	199601	200407	15,184	145
NADEL & GUSSMAN	KIRKPATRICK A	1 21	15129208410000	21	32S	42W	MORROWAN	0	0		198711	199501	637,426	0
NADEL & GUSSMAN	BARKELL 1	1	15129100130000	25	32S	43W	TOPEKA	2911	3192	REGMG	195609	200407	6,392,227	2,640
NADEL & GUSSMAN	CENTRAL 1	1	15129103500000	32	34S	42W	TOPEKA	2876	3038	REGMG	195607	200407	1,377,035	957
NADEL & GUSSMAN	DREYER 1	1	15129100330000	4	32S	43W	TOPEKA	0	0	REGMG	195508	200407	1,373,110	753
NADEL & GUSSMAN	DREYER 1	1	15129100370000	16	32S	43W	TOPEKA	0	0		195508	200112	2,600,569	0
NADEL & GUSSMAN	DREYER 1	1	15129100340000	6	32S	43W	TOPEKA	3218	3284		195508	200102	870,231	0
NADEL & GUSSMAN	DUDGEON 1	1	15129000690000	5	35S	42W	TOPEKA	2910	2939	REGMG	196005	200407	1,220,098	762
NADEL & GUSSMAN	FEDERAL 1	1	15129103580000	10	34S	42W	TOPEKA	2614	3144	REGMG	195608	200407	10,125,514	6,427
NADEL & GUSSMAN	FULLERTON 1	1	15129103590000	21	34S	42W	TOPEKA	0	0	REGMG	195606	200407	812,991	258
NADEL & GUSSMAN	HAYWARD 1	1	15129100470000	16	32S	42W	TOPEKA	2981	3207	REGMG	195509	200407	2,488,448	1,591
NADEL & GUSSMAN	HEMPHILL 1	1	15129103620000	30	34S	42W	TOPEKA	2613	3010	REGMG	195610	200407	2,258,665	1,229
NADEL & GUSSMAN	JACKSON	2 14	15129216220000	14	32S	42W	TOPEKA	0	0	REGMG	200011	200407	193,374	4,328
NADEL & GUSSMAN	JACKSON 1	1	15129100510000	14	32S	42W	TOPEKA	2808	3168		195606	200007	4,615,059	0
NADEL & GUSSMAN	KELLER 1	1	15129100540000	36	32S	42W	TOPEKA	2998	3160	REGMG	195601	200407	1,093,952	1,092
NADEL & GUSSMAN	LEVENS 1	1	15129100560000	9	32S	42W	TOPEKA	0	0		195510	199810	2,542,670	0
NADEL & GUSSMAN	MANZ 1-14	1	15129100590000	14	32S	43W	TOPEKA	0	0	REGMG	195507	200407	9,615,629	6,257
NADEL & GUSSMAN	MC GUIRE 1-3	1	15129100600000	3	32S	42W	TOPEKA	2806	3174	REGMG	195606	200407	5,588,707	3,837
NADEL & GUSSMAN	MCCLAIN	2 34	15129216110000	34	33S	42W	TOPEKA	0	0	REGMG	200011	200407	208,663	3,124
NADEL & GUSSMAN	MILLER	2 16	15129216630000	16	32S	43W	TOPEKA	0	0	REGMG	200301	200407	36,533	2,020
NADEL & GUSSMAN	PAT MAC 1	1	15129103650000	5	35S	42W	TOPEKA	2897	2987	REGMG	195607	200407	2,889,272	2,025
NADEL & GUSSMAN	RALSTON 1	1	15129103660000	19	34S	42W	TOPEKA	2565	3039	REGMG	195606	200407	1,487,755	1,582
NADEL & GUSSMAN	RAMSEY 1	1	15129103670000	5	33S	42W	TOPEKA	0	0	REGMG	195509	200310	4,209,075	0
NADEL & GUSSMAN	RATZLAFF 1	1	15129100640000	26	32S	42W	TOPEKA	2811	3284	REGMG	195601	200407	3,256,107	2,870
NADEL & GUSSMAN	SAUNDERS 1	1	15129100680000	21	32S	43W	TOPEKA	0	0	REGMG	195509	200407	9,148,336	4,909
NADEL & GUSSMAN	SAUNDERS 1	1	15129100660000	15	32S	43W	TOPEKA	0	0	REGMG	195507	200407	3,423,547	1,229
NADEL & GUSSMAN	SCOTT 1	1	15129100710000	19	32S	43W	TOPEKA	3106	3127	REGMG	195601	200406	2,052,797	1,371
NADEL & GUSSMAN	SMITH 1-S	S1	15129100200000	6	32S	42W	TOPEKA	3046	3170	REGMG	196001	200407	1,572,155	1,019
NADEL & GUSSMAN	SMITH J 1-A	A1	15129101570000	23	32S	43W	TOPEKA	2998	3236	REGMG	195503	200407	3,978,496	1,548
NADEL & GUSSMAN	STOOPS	1	15129100720000	12	32S	43W	TOPEKA	2950	3221	REGMG	195606	200407	3,366,894	2,815
NADEL & GUSSMAN	STOOPS 1	1	15129100740000	18	32S	42W	TOPEKA	3044	3188		195510	199908	1,396,724	0
NADEL & GUSSMAN	STOOPS 1	1	15129100730000	17	32S	42W	TOPEKA	2746	3180	REGMG	195509	200407	4,626,336	3,164
NADEL & GUSSMAN	STUCKY 1-A	A1	15129100800000	24	32S	42W	TOPEKA	2873	3245	REGMG	195712	200407	721,112	578
NADEL & GUSSMAN	TAYLOR 1	1	15129100760000	6	32S	42W	TOPEKA	2963	3172	REGMG	195606	200407	4,114,598	5,867
NADEL & GUSSMAN	WELLIVER 1	1	15129103730000	20	34S	42W	TOPEKA	0	0	REGMG	195607	200407	979,191	524
NADEL & GUSSMAN	WILLIAMS 1	1	15129103740000	28	33S	43W	TOPEKA	2814	3059	REGMG	195603	200407	1,109,046	317
NADEL & GUSSMAN	HANKE	2 22	15129214420000	22	32S	43W	WABAUNSEE	2724	3270	REGMG	199612	200407	214,504	1,362
NADEL & GUSSMAN	LUNT 1	1	15129100580000	2	32S	42W	WABAUNSEE	2804	3170	REGMG	195606	200407	1,643,145	1,584
NADEL & GUSSMAN	RUSSELL 1	1	15129100650000	1	32S	42W	WABAUNSEE	2804	3047	REGMG	195608	200407	1,410,046	261
OCONNOR WILLIAM J	KEEFER	1	15129201610000	26	31S	43W	WABAUNSEE	0	0		197504	197507	10,453	0

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# GREENWOOD GAS AREA - MORTON COUNTY, KANSAS

OPERATOR	WELL NAME	NO	API	SEC	TWP	RNG	RESERVOIR	TPERF	BPERF	GATH	DOFP	DOLP	CUM Mcf	200401
COASTAL OIL & GAS	KIRKPATRICK 1	1	15129100550000	21	32S	42W	TOPEKA	2738	3153	REGMG	195510	200407	2,717,688	1,653
COASTAL OIL & GAS	LINK 1	1	15129100570000	2	32S	43W	TOPEKA	0	0		195507	199511	1,538,280	0
COASTAL OIL & GAS	MC CLAIN 1-34	1	15129103640000	34	33S	42W	TOPEKA	0	0		195512	198312	8,569,072	0
COASTAL OIL & GAS	MORRISSE 1	1	15129100610000	8	32S	42W	TOPEKA	2754	3183	REGMG	195509	200407	4,267,663	1,534
COASTAL OIL & GAS	NEUERBER 1&2	2 34	15129100620000	34	32S	42W	TOPEKA	0	0		197602	198709	820,937	0
COASTAL OIL & GAS	NEUERBERG	1	15129100620000	34	32S	42W	TOPEKA	0	0		195510	197501	2,723,003	0
COASTAL OIL & GAS	PANKRATZ 1	1	15129100630000	27	32S	42W	TOPEKA	2750	3266	ANADP	195512	200407	4,753,484	7,936
COASTAL OIL & GAS	SAUNDERS	1	15129001050000	22	32S	43W	TOPEKA	3108	3168		195507	199612	3,966,965	0
COASTAL OIL & GAS	SAUNDERS	1	15129000050000	11	32S	43W	TOPEKA	0	0		195507	0	2,421	0
COASTAL OIL & GAS	SAUNDERS	1	15129100670000	18	32S	43W	TOPEKA	0	0		195510	196407	129,856	0
COASTAL OIL & GAS	SCOTT E	1	15129005280000	20	32S	43W	TOPEKA	3014	3098	REGMG	195509	200407	2,892,296	1,972
COASTAL OIL & GAS	SKINNER	1	15129000040000	35	31S	43W	TOPEKA	3174	3181		195507	198411	542,357	0
COASTAL OIL & GAS	STOOPS 1	1	15129000010000	5	32S	42W	TOPEKA	3534	3544		195606	199503	1,077,923	0
COASTAL OIL & GAS	BAILEY 1	1	15129100300000	12	32S	42W	WABAUNSEE	3114	3181	REGMG	195607	200407	771,772	788
COASTAL OIL & GAS	BITNER	1	15129001640000	24	31S	43W	WABAUNSEE	0	0		196701	196707	64,696	0
COASTAL OIL & GAS	JACKSON 1	1	15129100500000	11	32S	42W	WABAUNSEE	0	0	REGMG	195606	200407	4,134,582	1,735
DAVIS DRILLING INC	HEMPHILL	7	15129300690000	30	34S	42W	KSSC-LNSG	0	0		196707	198612	215,537	0
DAVIS DRILLING INC	SCOTT	1	15129300940000	18	34S	42W	KSSC-LNSG	3300	3312		196707	197408	130,133	0
DOMINION	BLOUT		15129216740000	5	33S	42W	MORROW	0	0		200206	200407	0	0
DOMINION	BLOUT		15129216640000	5	33S	42W	MORROW	0	0		200205	200407	0	0
ENERGY ALLIANCE CO	HANNA 2	2	15129101640000	29	31S	43W	TOPEKA	3183	3191	REGMG	195609	200407	701,214	58
EXECUTIVE PROPERTIES	KANSAS	2 13	15129301150000	13	34S	43W	LANSING	3276	3286		196806	199311	239,240	0
FARMER JOHN O INC	KREY	6 13	15129215710000	13	35S	42W	TOPEKA	0	0	KNPRO	199902	200407	80,345	563
FNA OIL COMPANY	BOYD UNIT	1	15129101600000	33	31S	42W	WABAUNSEE	2800	3139	REGMG	195606	200407	1,290,693	2,336
HELMERICH & PAYNE	JOHNSON	1 2	15055217140000	12	22S	34W	TOPEKA	0	0	HELMR	200104	200308	47,340	0
HIGH PLAINS PROD	PENTECOSTAL	126	15129216280000	26	31S	43W	TOPEKA	0	0	REGMG	200103	200407	24,854	39
HIGH PLAINS PROD	YODER	1 24	15129102980001	24	33S	42W	TOPEKA	3147	3159	ANADP	199906	200407	247,977	1,685
HUSAIN MRS SHATTNAZ	PANCRATZ	1 28	15129207970000	28	32S	42W	MORROWAN	4916	4926		198711	199503	184,345	0
KAISER-FRANCIS	JOHNS	1	15129204370001	10	32S	41W	SHAWNEE	0	0	ANADP	198701	200407	273,503	1,757
KAISER-FRANCIS OIL CO	BOICE 1	1	15129105970000	36	33S	43W	TOPEKA	2895	3072	REGMG	195602	200407	1,410,803	632
KAISER-FRANCIS OIL CO	BROWN 1	1	15129105980000	6	33S	43W	TOPEKA	2978	3092	REGMG	195603	200407	1,246,090	257
KAISER-FRANCIS OIL CO	MOHLER 1	1	15129100070000	29	32S	43W	TOPEKA	3092	3120	OXUSA	195602	200405	2,419,528	57
LANDMARK ENERGY	CLANCY	1	15129100950000	27	31S	42W	TOPEKA	2717	3100	REGMG	195712	200407	2,661,164	3,866
LONE STAR RESOURCES	SAUNDERS	1	15129202020000	11	32S	43W	TOPEKA	3256	3265	CIGFL	197606	200308	310,040	0
LOWRYS LEASE MANAGEMENT	BARNES 1-15	1	15129203380000	15	35S	42W	TOPEKA	0	0	ASSNG	197804	200305	211,726	0
M M ENERGY	HEINTZ J E	1	15129000740001	7	35S	42W	TOPEKA	2910	2926	REGMG	196011	200407	1,712,360	671
M M RESOURCES	INGLE	1	15129102290000	11	34S	42W	TOPEKA	2893	3193	REGMG	195607	200407	11,567,059	2,858
M M RESOURCES	JENSEN	1	15129100150000	27	32S	42W	TOPEKA	2781	3193	UNIMK	195605	200407	3,152,614	2,269
M M RESOURCES	U S A 1-13	1	15129104350000	13	34S	42W	TOPEKA	2956	3229	ANADP	195811	200407	5,255,118	989
MAPCO INCORPORATED	DAVIS 1	1	15129105790000	15	33S	43W	TOPEKA	0	0		195412	198412	1,257,267	0
MERIT ENERGY COMPANY	HANNA	1	15129101630000	32	31S	43W	TOPEKA	3174	3198		195507	200207	805,916	0



Date						DST	Times	Rec	ISIP	FSIP	IFP	FFP	Perfs	
2-1-01	27	32	41W	Pioneer	#1-827 Lemon	Top 3126-65	15-45-75-90	GST/34" 2nd open	150	150	21-28	26-41	3150-58	1500 A
								12 MCFG						
						Top 3158-96	15-45-30-30	15 DM NS	407	176	16	23-27		
						Wab							2859-2962	
1978	28	31	42W	T O&G	#1 Elder	Deer Creek	30-60-45-90	GST/5" 2nd open	459	459	245-245	245-245	3137-47,	500 A
						3152-95		1.1 MMCFG					3176-98	
								Rec 185 ft GCM						

950 & 1060

Recommended evaluation method:

Perf

Swab dry to see if gas will come in (anticipate gas pressure of

Pressure guideline:

0-500 psi Native gas

> 500 psi Storage gas

Will gas be maintained

Take gas sample

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